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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

SGS Accutest Job Number: JC19423

Sampling Date: 04/28/16

Report to:

Anderson, Mulholland & Associates
2700 Westchester Avenue Suite 417
Purchase, NY 10577
ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **1428**

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

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: JC19423

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC19423-1	04/28/16	12:37	NR	05/02/16	SO	Soil	MW-20S (7-8)
JC19423-2	04/28/16	13:00	TT	05/02/16	AQ	Ground Water	RA18-GWD
JC19423-2A	04/28/16	13:00	TT	05/02/16	AQ	Ground Water	RA18-GWD
JC19423-2AD	04/28/16	13:00	TT	05/02/16	AQ	Water Dup/MSD	RA18-GWD (MSD)
JC19423-2AS	04/28/16	13:00	TT	05/02/16	AQ	Water Matrix Spike	RA18-GWD (MS)
JC19423-2D	04/28/16	13:00	TT	05/02/16	AQ	Water Dup/MSD	RA18-GWD (MSD)
JC19423-2S	04/28/16	13:00	TT	05/02/16	AQ	Water Matrix Spike	RA18-GWD (MS)

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC19423
Site:	BMSMC, Building 5 Area, PR	**Report Date**	5/16/2016 11:28:20 A

On 05/02/2016, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 9.8 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC19423 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. *** Samples rec'd at 9.8 degrees C and OK to proceed with analysis .

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.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP93534

- All samples were extracted within the recommended method holding time.
- Sample(s) JC19382-2MS, JC19382-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** OP93597

- All samples were extracted within the recommended method holding time.
- Sample(s) JC19414-1MS, JC19414-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP93597-BS1 for 1,2,4,5-Tetrachlorobenzene: Outside of in house control limits, but within reasonable method recovery limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP93534A

- All samples were extracted within the recommended method holding time.
- Sample(s) JC19423-2MS, JC19423-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** OP93597A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC19423-1MS, JC19423-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,4-Dioxane are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,4-Dioxane are outside control limits. Outside control limits due to matrix interference.

Volatiles by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** F:GXY2774

- The data for SW846 8015C meets quality control requirements.
- JC19423-2A: Analysis performed at Accutest Laboratories, Orlando FL.

Volatiles by GC By Method SW846 8015C MOD

Matrix: SO **Batch ID:** F:GXY2775

- The data for SW846 8015C MOD meets quality control requirements.
- JC19423-1: Sample was received in a bulk container but was not preserved within 48 hours of sampling. Analysis performed at Accutest Laboratories, Orlando FL.

Extractables by GC By Method SW846 8081B

Matrix: AQ	Batch ID: OP93549

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC19423-2MS, JC19423-2MSD were used as the QC samples indicated.
- JC19423-2 for Decachlorobiphenyl: High percent recoveries and no positive found in the sample.

Matrix: SO	Batch ID: OP93683

- All samples were extracted within the recommended method holding time.
- Sample(s) JC19505-1MS, JC19505-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for 4,4'-DDE, Endosulfan-I are outside the QC limits.
- RPD(s) for MSD for 4,4'-DDE, Endosulfan-I are outside the QC limits for sample OP93683-MSD.

Wet Chemistry By Method SM2540 G-97

Matrix: SO	Batch ID: GN45265

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

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

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

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

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest New Jersey **Job No:** JC19423

Site: AMANYWP: BMSMC, Building 5 Area, PR **Report Date** 5/10/2016 10:20:43 AM

2 Samples were collected on 04/28/2016 and were received at SGS Accutest Southeast (SASE) between 05/03/2016 and 05/04/2016 properly preserved, at 3.6 Deg. C and intact. These Samples received an SASE job number of JC19423. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** GXY2774

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) JC19423-2AMS, JC19423-2AMSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8015C MOD

Matrix: SO **Batch ID:** GXY2775

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) JC19423-1MS, JC19423-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for n-Butyl Alcohol are outside control limits. Recovery is biased high. Analyte is non-detect in associated sample; therefore data is not adversely affected.

Matrix Spike Duplicate Recovery(s) for Ethanol, Isopropyl Alcohol, n-Butyl Alcohol, n-Propyl Alcohol are outside control limits. Probable cause is due to matrix interference.

JC19423-1: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____ Date: May 10, 2016

Lovelie Metzgar, QA Officer (signature on file)

Summary of Hits

Job Number: JC19423
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 04/28/16

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC19423-1	**MW-20S (7-8)**					
No hits reported in this sample.						
JC19423-2	**RA18-GWD**					
1,4-Dioxane		10.8	1.1	0.71	ug/l	SW846 8270D
JC19423-2A	**RA18-GWD**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	MW-20S (7-8)		
Lab Sample ID:	JC19423-1	**Date Sampled:**	04/28/16
Matrix:	SO - Soil	**Date Received:**	05/02/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	74.3
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E83105.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	90	31	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	40	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	44	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	110	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	220	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	220	66	ug/kg	
95-48-7	2-Methylphenol	ND	90	51	ug/kg	
	3&4-Methylphenol	ND	90	51	ug/kg	
88-75-5	2-Nitrophenol	ND	220	39	ug/kg	
100-02-7	4-Nitrophenol	ND	450	120	ug/kg	
87-86-5	Pentachlorophenol	ND	220	38	ug/kg	
108-95-2	Phenol	ND	90	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	220	58	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	64	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	49	ug/kg	
83-32-9	Acenaphthene	ND	45	8.5	ug/kg	
208-96-8	Acenaphthylene	ND	45	6.2	ug/kg	
98-86-2	Acetophenone	ND	220	23	ug/kg	
120-12-7	Anthracene	ND	45	19	ug/kg	
1912-24-9	Atrazine	ND	90	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	45	6.9	ug/kg	
50-32-8	Benzo(a)pyrene	ND	45	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	45	9.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	45	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	45	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	90	21	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	90	26	ug/kg	
92-52-4	1,1'-Biphenyl	ND	90	13	ug/kg	
100-52-7	Benzaldehyde	ND	220	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	90	8.5	ug/kg	
106-47-8	4-Chloroaniline	ND	220	13	ug/kg	
86-74-8	Carbazole	ND	90	8.7	ug/kg	

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

Report of Analysis

Client Sample ID:	MW-20S (7-8)		
Lab Sample ID:	JC19423-1	**Date Sampled:**	04/28/16
Matrix:	SO - Soil	**Date Received:**	05/02/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	74.3
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	90	33	ug/kg	
218-01-9	Chrysene	ND	45	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	90	9.5	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	90	26	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	90	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	90	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	45	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	45	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	90	61	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	45	17	ug/kg	
132-64-9	Dibenzofuran	ND	90	8.1	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	90	28	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	90	29	ug/kg	
84-66-2	Diethyl phthalate	ND	90	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	90	9.2	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	90	9.8	ug/kg	
206-44-0	Fluoranthene	ND	45	21	ug/kg	
86-73-7	Fluorene	ND	45	18	ug/kg	
118-74-1	Hexachlorobenzene	ND	90	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	45	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	450	27	ug/kg	
67-72-1	Hexachloroethane	ND	220	34	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	45	15	ug/kg	
78-59-1	Isophorone	ND	90	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	90	8.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	90	36	ug/kg	
88-74-4	2-Nitroaniline	ND	220	33	ug/kg	
99-09-2	3-Nitroaniline	ND	220	16	ug/kg	
100-01-6	4-Nitroaniline	ND	220	18	ug/kg	
98-95-3	Nitrobenzene	ND	90	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	90	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	26	ug/kg	
85-01-8	Phenanthrene	ND	45	11	ug/kg	
129-00-0	Pyrene	ND	45	7.9	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	220	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		30-106%
4165-62-2	Phenol-d5	65%		30-106%

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

Report of Analysis

Client Sample ID:	MW-20S (7-8)		
Lab Sample ID:	JC19423-1	**Date Sampled:**	04/28/16
Matrix:	SO - Soil	**Date Received:**	05/02/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	74.3
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72%		24-140%
4165-60-0	Nitrobenzene-d5	79%		26-122%
321-60-8	2-Fluorobiphenyl	78%		36-112%
1718-51-0	Terphenyl-d14	93%		36-132%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-20S (7-8)		
Lab Sample ID:	JC19423-1	**Date Sampled:**	04/28/16
Matrix:	SO - Soil	**Date Received:**	05/02/16
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	74.3
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M61124.D	1	05/06/16	LK	05/04/16	OP93597A	E3M2874
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	4.5	0.90	ug/kg	
91-20-3	Naphthalene	ND	4.5	0.55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		15-138%
321-60-8	2-Fluorobiphenyl	85%		12-148%
1718-51-0	Terphenyl-d14	96%		10-157%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-20S (7-8)		
Lab Sample ID:	JC19423-1	**Date Sampled:**	04/28/16
Matrix:	SO - Soil	**Date Received:**	05/02/16
Method:	SW846 8015C MOD	**Percent Solids:**	74.3
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	XY064122.D	1	05/06/16	AFL	n/a	n/a	F:GXY2775
Run #2							

	Initial Weight	Final Volume
Run #1	4.78 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	14	2.8	mg/kg	
78-83-1	Isobutyl Alcohol	ND	14	2.8	mg/kg	
67-63-0	Isopropyl Alcohol	ND	14	2.8	mg/kg	
71-23-8	n-Propyl Alcohol	ND	14	2.8	mg/kg	
71-36-3	n-Butyl Alcohol	ND	14	2.8	mg/kg	
67-56-1	Methanol	ND	14	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	112%		69-121%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Analysis performed at Accutest Laboratories, Orlando FL.

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-20S (7-8)		
Lab Sample ID:	JC19423-1	**Date Sampled:**	04/28/16
Matrix:	SO - Soil	**Date Received:**	05/02/16
Method:	SW846 8081B SW846 3546	**Percent Solids:**	74.3
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G68004.D	1	05/06/16	BP	05/06/16	OP93683	G4G1782
Run #2							

	Initial Weight	Final Volume
Run #1	16.6 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.81	0.72	ug/kg	
319-84-6	alpha-BHC	ND	0.81	0.54	ug/kg	
319-85-7	beta-BHC	ND	0.81	0.50	ug/kg	
319-86-8	delta-BHC	ND	0.81	0.32	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.81	0.37	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.81	0.43	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.81	0.62	ug/kg	
60-57-1	Dieldrin	ND	0.81	0.63	ug/kg	
72-54-8	4,4'-DDD	ND	0.81	0.30	ug/kg	
72-55-9	4,4'-DDE	ND	0.81	0.27	ug/kg	
50-29-3	4,4'-DDT	ND	0.81	0.31	ug/kg	
72-20-8	Endrin	ND	0.81	0.29	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.81	0.46	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.81	0.60	ug/kg	
959-98-8	Endosulfan-I	ND	0.81	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.81	0.77	ug/kg	
76-44-8	Heptachlor	ND	0.81	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.81	0.33	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.45	ug/kg	
53494-70-5	Endrin ketone	ND	0.81	0.43	ug/kg	
8001-35-2	Toxaphene	ND	20	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	109%		24-136%
877-09-8	Tetrachloro-m-xylene	93%		24-136%
2051-24-3	Decachlorobiphenyl	107%		10-153%
2051-24-3	Decachlorobiphenyl	96%		10-153%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA18-GWD		
Lab Sample ID:	JC19423-2	**Date Sampled:**	04/28/16
Matrix:	AQ - Ground Water	**Date Received:**	05/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P27906.D	1	05/03/16	AD	05/02/16	OP93534	E5P1416
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.4	0.89	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.4	0.97	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.4	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.4	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.97	ug/l	
	3&4-Methylphenol	ND	2.2	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	5.4	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol	ND	5.4	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.43	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.4	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.4	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.4	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.21	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.15	ug/l	
98-86-2	Acetophenone	ND	2.2	0.23	ug/l	
120-12-7	Anthracene	ND	1.1	0.23	ug/l	
1912-24-9	Atrazine	ND	2.2	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.4	0.31	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.37	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.44	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.50	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.23	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.4	0.37	ug/l	
86-74-8	Carbazole	ND	1.1	0.25	ug/l	

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

Report of Analysis

Client Sample ID:	RA18-GWD		
Lab Sample ID:	JC19423-2	**Date Sampled:**	04/28/16
Matrix:	AQ - Ground Water	**Date Received:**	05/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.71	ug/l	
218-01-9	Chrysene	ND	1.1	0.19	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.27	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.40	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.60	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.52	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.55	ug/l	
123-91-1	1,4-Dioxane	10.8	1.1	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.36	ug/l	
132-64-9	Dibenzofuran	ND	5.4	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.54	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.24	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	1.8	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.19	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.35	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.53	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.0	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.42	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.36	ug/l	
78-59-1	Isophorone	ND	2.2	0.30	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	5.4	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	5.4	0.42	ug/l	
100-01-6	4-Nitroaniline	ND	5.4	0.48	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.70	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.52	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.24	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.19	ug/l	
129-00-0	Pyrene	ND	1.1	0.24	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		14-88%

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

Report of Analysis

Client Sample ID:	RA18-GWD		
Lab Sample ID:	JC19423-2	**Date Sampled:**	04/28/16
Matrix:	AQ - Ground Water	**Date Received:**	05/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	37%		10-110%
118-79-6	2,4,6-Tribromophenol	109%		39-149%
4165-60-0	Nitrobenzene-d5	101%		32-128%
321-60-8	2-Fluorobiphenyl	100%		35-119%
1718-51-0	Terphenyl-d14	99%		10-126%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA18-GWD		
Lab Sample ID:	JC19423-2	**Date Sampled:**	04/28/16
Matrix:	AQ - Ground Water	**Date Received:**	05/02/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M61012.D	1	05/02/16	LK	05/02/16	OP93534A	E3M2868
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.032	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		24-125%
321-60-8	2-Fluorobiphenyl	91%		19-127%
1718-51-0	Terphenyl-d14	101%		10-119%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA18-GWD		
Lab Sample ID:	JC19423-2	**Date Sampled:**	04/28/16
Matrix:	AQ - Ground Water	**Date Received:**	05/02/16
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G122666.D	1	05/02/16	BP	05/02/16	OP93549	G1G3977
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0040	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0040	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0038	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0030	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0019	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0031	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0031	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0024	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0025	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0033	ug/l	
72-20-8	Endrin	ND	0.0067	0.0034	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0035	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0034	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0033	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0029	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0025	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0044	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0038	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	115%		26-132%
877-09-8	Tetrachloro-m-xylene	102%		26-132%
2051-24-3	Decachlorobiphenyl	98%		10-118%
2051-24-3	Decachlorobiphenyl	124% [a]		10-118%

(a) High percent recoveries and no positive found in the sample.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA18-GWD		
Lab Sample ID:	JC19423-2A	**Date Sampled:**	04/28/16
Matrix:	AQ - Ground Water	**Date Received:**	05/02/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	XY064113.D	1	05/05/16	AFL	n/a	n/a	F:GXY2774
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	5.0	1.0	mg/l	
78-83-1	Isobutyl Alcohol	ND	5.0	1.0	mg/l	
67-63-0	Isopropyl Alcohol	ND	5.0	1.0	mg/l	
71-23-8	n-Propyl Alcohol	ND	5.0	1.0	mg/l	
71-36-3	n-Butyl Alcohol	ND	5.0	1.0	mg/l	
67-56-1	Methanol	ND	5.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	106%		73-123%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

SO - Foreign
GW

SGS ACCUTEST-NJ

CHAIN OF CUSTODY

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

PAGE 1 OF 1 PN

801219536018

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # JC19423

Client / Reporting Information

Company Name: Anderson Mulholland Assoc. Inc.
Street Address: 2700 Westchester
City State Zip: Purchase, NY
Project Contact: Terry Taylor
E-mail:
Phone #: 914-251-0400
Fax #:
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrand
Phone #:

Project Information

Project Name: BMS Release Assessment
Street:
City State: Humacao PR
Project #:
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

SGS 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	SVOC - Method 8270D	LMA - Method 8015B	Pesticides - Method 8081B	1,4 Dioxane + Naphthalene by Method 8270D SIM	LAB USE ONLY
1	MW-20S (7-8)		4/28/16	1237	NR	SO	2					2				X	X	X	X	E12
	RA18-GWD		4/28/16	1300	TT	GW	7	3				4				X	X	X	X	V1194
2	RA18-GWD (MS)		4/28/16	1300	TT	GW	7	3				4				X	X	X	X	F53
	RA18-GWD (MSD)		4/28/16	1300	TT	GW	7	3				4				X	X	X	X	

INITIAL ASESSMENT 7/3A
LABEL VERIFICATION

Turnaround Time (Business days)

- [x] Std. 10 Business Days For soil samples
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] 1 Day RUSH Aqueous samples
- [ ] other

Approved By (SGS Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] 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

Add to Report: 1-methyl naphthalene with SVOC Method 8270D

Sample inventory is verified upon receipt in the Laboratory

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 N. Rivera	4/29/16 1500	1 Fed Ex	2 FEDEX	5-2-16 900	2
3		3	4		4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 622	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 9.4°C

5.1 5

JC19423: Chain of Custody
Page 1 of 3

SGS Accutest Sample Receipt Summary

Job Number: JC19423 **Client:** Anderson Mulholland **Project:** BMS Release

Date / Time Received: 5/2/2016 9:00:00 AM **Delivery Method:** FedEx **Airbill #'s:** 801219536018

Cooler Temps (Raw Measured) °C: Cooler 1: (9.4);

Cooler Temps (Corrected) °C: Cooler 1: (9.8);

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:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No, Coolers	1	

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

Sample Integrity - Documentation	Y	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

1) Samples rec'd at 9.8 degrees C, melted ice in bags.

Sample Receipt Summary - Problem Resolution

Job Number: JC19423 **Initiator:** daveh

CSR: Tammy McCloskey **Response Date** 5/2/2016

Response: Please proceed with analysis per Terry Taylor

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC19423

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC19423-1	Collected: 28-APR-16 12:37 By: NR		Received: 02-MAY-16 By: DDH			
MW-20S (7-8)						
JC19423-1	SM2540 G-97	04-MAY-16 16:00	PV			SOL104
JC19423-1	SW846 8015C MOD	06-MAY-16 09:02	AFL			D8015LMA
JC19423-1	SW846 8270D BY SIM	06-MAY-16 11:42	LK	04-MAY-16	AQ	B8270SIM14DIOX,BSIM + NAP
JC19423-1	SW846 8081B	06-MAY-16 22:47	BP	06-MAY-16	MA	P8081PESTTCL
JC19423-1	SW846 8270D	11-MAY-16 18:35	AN	04-MAY-16	AQ	AB8270SL
JC19423-2	Collected: 28-APR-16 13:00 By: TT		Received: 02-MAY-16 By: DDH			
RA18-GWD						
JC19423-2	SW846 8081B	02-MAY-16 17:49	BP	02-MAY-16	EC	P8081PESTTCL
JC19423-2	SW846 8270D BY SIM	02-MAY-16 23:12	LK	02-MAY-16	NG	BSIM + NAP
JC19423-2	SW846 8270D	03-MAY-16 10:27	AD	02-MAY-16	NG	AB8270SL
JC19423-2A	Collected: 28-APR-16 13:00 By: TT		Received: 02-MAY-16 By: DDH			
RA18-GWD						
JC19423-2A	SW846 8015C	05-MAY-16 11:08	AFL			D8015LMA

SGS Accutest Internal Chain of Custody

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/02/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19423-1.1	Secured Storage	Todd Shoemaker	05/03/16 10:30	Retrieve from Storage
JC19423-1.1	Todd Shoemaker	Secured Staging Area	05/03/16 10:30	Return to Storage
JC19423-1.1	Secured Staging Area	Kruti Patel	05/03/16 16:03	Retrieve from Storage
JC19423-1.1	Kruti Patel	Secured Storage	05/03/16 16:50	Return to Storage
JC19423-1.1	Secured Storage	Shanice Grant	05/04/16 04:24	Retrieve from Storage
JC19423-1.1	Shanice Grant	Steven Zarchy	05/04/16 07:34	Custody Transfer
JC19423-1.1	Steven Zarchy	Secured Storage	05/04/16 09:28	Return to Storage
JC19423-1.1	Secured Storage	Todd Shoemaker	05/04/16 10:16	Retrieve from Storage
JC19423-1.1	Todd Shoemaker	Secured Staging Area	05/04/16 10:16	Return to Storage
JC19423-1.1	Secured Staging Area	Paula Velatesgui	05/04/16 12:28	Retrieve from Storage
JC19423-1.1	Paula Velatesgui	Secured Storage	05/04/16 12:31	Return to Storage
JC19423-1.1	Secured Storage	Eric Chiles	05/06/16 06:22	Retrieve from Storage
JC19423-1.1	Eric Chiles	Sauvelson Auguste	05/06/16 07:14	Custody Transfer
JC19423-1.1	Sauvelson Auguste	Secured Storage	05/06/16 10:00	Return to Storage
JC19423-1.1.1	Shanice Grant	Organics Prep	05/04/16 04:24	Extract from JC19423-1.1
JC19423-1.1.1	Organics Prep	Shanice Grant	05/04/16 10:05	Extract from JC19423-1.1
JC19423-1.1.1	Shanice Grant	Extract Storage	05/04/16 10:05	Return to Storage
JC19423-1.1.1	Extract Storage	Dhara Saparia	05/04/16 17:08	Retrieve from Storage
JC19423-1.1.1	Dhara Saparia	GC1G	05/04/16 17:08	Load on Instrument
JC19423-1.1.2	Steven Zarchy	Organics Prep	05/04/16 07:39	Extract from JC19423-1.1
JC19423-1.1.2	Organics Prep	Albert Quayson	05/04/16 17:05	Extract from JC19423-1.1
JC19423-1.1.2	Albert Quayson	Extract Storage	05/04/16 17:05	Return to Storage
JC19423-1.1.2	Extract Storage	Ashley Noble	05/11/16 11:07	Retrieve from Storage
JC19423-1.1.2	Ashley Noble	GCMS3E	05/11/16 11:07	Load on Instrument
JC19423-1.1.2	GCMS3E	Ashley Noble	05/13/16 11:41	Unload from Instrument
JC19423-1.1.2	Ashley Noble	Extract Freezer	05/13/16 11:41	Return to Storage
JC19423-1.1.3	Eric Chiles	Organics Prep	05/06/16 06:22	Extract from JC19423-1.1
JC19423-1.1.3	Organics Prep	Meilly Arbelo	05/06/16 10:41	Extract from JC19423-1.1
JC19423-1.1.3	Meilly Arbelo	Extract Storage	05/06/16 10:41	Return to Storage
JC19423-1.1.3	Extract Storage	Dhara Saparia	05/06/16 16:13	Retrieve from Storage
JC19423-1.1.3	Dhara Saparia	GC4G	05/06/16 16:14	Load on Instrument
JC19423-1.1.3	GC4G	Brittany Piercy	05/09/16 08:05	Unload from Instrument
JC19423-1.1.3	Brittany Piercy	Extract Freezer	05/09/16 08:06	Return to Storage
JC19423-1.2	Secured Storage	Bernadette Vassilatos	05/03/16 10:06	Retrieve from Storage
JC19423-1.2	Bernadette Vassilatos		05/03/16 10:06	Subcontract
JC19423-2.1	Secured Storage	Yaw Britwum	05/02/16 11:35	Retrieve from Storage
JC19423-2.1	Yaw Britwum		05/03/16 13:00	Depleted
JC19423-2.1.1	Yaw Britwum	Organics Prep	05/02/16 11:36	Extract from JC19423-2.1

SGS Accutest Internal Chain of Custody

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/02/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19423-2.1.1	Organics Prep	Nicholas Goydish	05/02/16 14:37	Extract from JC19423-2.1
JC19423-2.1.1	Nicholas Goydish	Extract Storage	05/02/16 14:37	Return to Storage
JC19423-2.2	Secured Storage	Nicholas Goydish	05/02/16 12:20	Retrieve from Storage
JC19423-2.2	Nicholas Goydish		05/02/16 15:21	Depleted
JC19423-2.2.1	Nicholas Goydish	Organics Prep	05/02/16 12:21	Extract from JC19423-2.2
JC19423-2.2.1	Organics Prep	Nicholas Goydish	05/02/16 14:37	Extract from JC19423-2.2
JC19423-2.2.1	Nicholas Goydish	Extract Storage	05/02/16 14:37	Return to Storage
JC19423-2.3	Secured Storage	Nicholas Goydish	05/02/16 12:20	Retrieve from Storage
JC19423-2.3	Nicholas Goydish		05/02/16 15:21	Depleted
JC19423-2.3.1	Nicholas Goydish	Organics Prep	05/02/16 12:21	Extract from JC19423-2.3
JC19423-2.3.1	Organics Prep	Nicholas Goydish	05/02/16 14:37	Extract from JC19423-2.3
JC19423-2.3.1	Nicholas Goydish	Extract Storage	05/02/16 14:37	Return to Storage
JC19423-2.4	Secured Storage	Nicholas Goydish	05/02/16 12:25	Retrieve from Storage
JC19423-2.4	Nicholas Goydish		05/02/16 15:21	Depleted
JC19423-2.4.1	Nicholas Goydish	Organics Prep	05/02/16 12:25	Extract from JC19423-2.4
JC19423-2.4.1	Organics Prep	Nicholas Goydish	05/02/16 14:37	Extract from JC19423-2.4
JC19423-2.4.1	Nicholas Goydish	Extract Storage	05/02/16 14:37	Return to Storage
JC19423-2.5	Secured Storage	Nicholas Goydish	05/02/16 12:25	Retrieve from Storage
JC19423-2.5	Nicholas Goydish		05/02/16 15:21	Depleted
JC19423-2.5.1	Nicholas Goydish	Organics Prep	05/02/16 12:25	Extract from JC19423-2.5
JC19423-2.5.1	Organics Prep	Nicholas Goydish	05/02/16 14:37	Extract from JC19423-2.5
JC19423-2.5.1	Nicholas Goydish	Extract Storage	05/02/16 14:37	Return to Storage
JC19423-2.9	Secured Storage	Yaw Britwum	05/02/16 11:35	Retrieve from Storage
JC19423-2.9	Secured Storage	Todd Shoemaker	05/02/16 16:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC19423-2.9	Todd Shoemaker	Secured Storage	05/02/16 16:43	Return to Storage
JC19423-2.9	Secured Storage	Seleb Pan	05/02/16 16:44	Retrieve from Storage
JC19423-2.9	Seleb Pan		05/02/16 16:45	Depleted
JC19423-2.9.1	Yaw Britwum	Organics Prep	05/02/16 11:37	Extract from JC19423-2.9
JC19423-2.9.2	Seleb Pan	Organics Prep	05/02/16 16:44	Extract from JC19423-2.9
JC19423-2.9.2	Organics Prep	Seleb Pan	05/02/16 16:45	Extract from JC19423-2.9
JC19423-2.9.2	Seleb Pan	Extract Storage	05/02/16 16:45	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/02/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19423-2.11	Secured Storage	Yaw Britwum	05/02/16 11:35	Retrieve from Storage
JC19423-2.11	Secured Storage	Todd Shoemaker	05/02/16 16:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC19423-2.11	Todd Shoemaker	Secured Storage	05/02/16 16:43	Return to Storage
JC19423-2.11	Secured Storage	Seleb Pan	05/02/16 16:44	Retrieve from Storage
JC19423-2.11	Seleb Pan		05/02/16 16:45	Depleted
JC19423-2.11.1	Yaw Britwum	Organics Prep	05/02/16 11:37	Extract from JC19423-2.11
JC19423-2.11.2	Seleb Pan	Organics Prep	05/02/16 16:44	Extract from JC19423-2.11
JC19423-2.11.2	Organics Prep	Seleb Pan	05/02/16 16:45	Extract from JC19423-2.11
JC19423-2.11.2	Seleb Pan	Extract Storage	05/02/16 16:45	Return to Storage
JC19423-2.12	Secured Storage	Yaw Britwum	05/02/16 11:35	Retrieve from Storage
JC19423-2.12	Secured Storage	Todd Shoemaker	05/02/16 16:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC19423-2.12	Todd Shoemaker	Secured Storage	05/02/16 16:43	Return to Storage
JC19423-2.12	Secured Storage	Seleb Pan	05/02/16 16:44	Retrieve from Storage
JC19423-2.12	Seleb Pan		05/02/16 16:45	Depleted
JC19423-2.12.1	Yaw Britwum	Organics Prep	05/02/16 11:37	Extract from JC19423-2.12
JC19423-2.12.2	Seleb Pan	Organics Prep	05/02/16 16:44	Extract from JC19423-2.12
JC19423-2.12.2	Organics Prep	Seleb Pan	05/02/16 16:45	Extract from JC19423-2.12
JC19423-2.12.2	Seleb Pan	Extract Storage	05/02/16 16:45	Return to Storage
JC19423-2.13	Secured Storage	Bernadette Vassilatos	05/02/16 13:11	Retrieve from Storage
JC19423-2.13	Bernadette Vassilatos		05/02/16 13:11	Subcontract
JC19423-2.14	Secured Storage	Bernadette Vassilatos	05/02/16 13:11	Retrieve from Storage
JC19423-2.14	Bernadette Vassilatos		05/02/16 13:11	Subcontract
JC19423-2.15	Secured Storage	Bernadette Vassilatos	05/02/16 13:11	Retrieve from Storage
JC19423-2.15	Bernadette Vassilatos		05/02/16 13:11	Subcontract
JC19423-2.16	Secured Storage	Bernadette Vassilatos	05/02/16 13:11	Retrieve from Storage
JC19423-2.16	Bernadette Vassilatos		05/02/16 13:11	Subcontract
JC19423-2.17	Secured Storage	Bernadette Vassilatos	05/02/16 13:11	Retrieve from Storage
JC19423-2.17	Bernadette Vassilatos		05/02/16 13:11	Subcontract
JC19423-2.18	Secured Storage	Bernadette Vassilatos	05/02/16 13:11	Retrieve from Storage
JC19423-2.18	Bernadette Vassilatos		05/02/16 13:11	Subcontract

SGS Accutest Internal Chain of Custody

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/02/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19423-2.19	Secured Storage	Bernadette Vassilatos	05/02/16 13:11	Retrieve from Storage
JC19423-2.19	Bernadette Vassilatos		05/02/16 13:11	Subcontract
JC19423-2.20	Secured Storage	Bernadette Vassilatos	05/02/16 13:11	Retrieve from Storage
JC19423-2.20	Bernadette Vassilatos		05/02/16 13:11	Subcontract
JC19423-2.21	Secured Storage	Bernadette Vassilatos	05/02/16 13:11	Retrieve from Storage
JC19423-2.21	Bernadette Vassilatos		05/02/16 13:11	Subcontract

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-MB1	5P27879.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-MB1	5P27879.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.26	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-MB1	5P27879.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	62%	14-88%
4165-62-2	Phenol-d5	43%	10-110%
118-79-6	2,4,6-Tribromophenol	107%	39-149%
4165-60-0	Nitrobenzene-d5	104%	32-128%
321-60-8	2-Fluorobiphenyl	97%	35-119%
1718-51-0	Terphenyl-d14	108%	10-126%

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

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-MB1	3E82888.D	1	05/04/16	AN	05/02/16	OP93534	E3E3634

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-MB1	3E82888.D	1	05/04/16	AN	05/02/16	OP93534	E3E3634

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.26	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-MB1	3E82888.D	1	05/04/16	AN	05/02/16	OP93534	E3E3634

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	57%	14-88%
4165-62-2	Phenol-d5	36%	10-110%
118-79-6	2,4,6-Tribromophenol	110%	39-149%
4165-60-0	Nitrobenzene-d5	95%	32-128%
321-60-8	2-Fluorobiphenyl	95%	35-119%
1718-51-0	Terphenyl-d14	104%	10-126%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Internal standard added for SIM test	4.60	4.3	ug/l	J
	Internal standard added for SIM te	6.35	4.7	ug/l	J
	Internal standard added for SIM test	8.29	4.7	ug/l	J
	Internal standard added for SIM test	11.58	4.4	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MB1	Z110386.D	1	05/05/16	AD	05/04/16	OP93597	EZ5515

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	25	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	27	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	63	ug/kg	
95-48-7	2-Methylphenol	ND	67	48	ug/kg	
	3&4-Methylphenol	ND	67	32	ug/kg	
88-75-5	2-Nitrophenol	ND	170	31	ug/kg	
100-02-7	4-Nitrophenol	ND	330	57	ug/kg	
87-86-5	Pentachlorophenol	ND	170	81	ug/kg	
108-95-2	Phenol	ND	67	25	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	31	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	30	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	27	ug/kg	
83-32-9	Acenaphthene	ND	33	31	ug/kg	
208-96-8	Acenaphthylene	ND	33	3.5	ug/kg	
98-86-2	Acetophenone	ND	170	5.7	ug/kg	
120-12-7	Anthracene	ND	33	2.9	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	6.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	7.1	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	6.9	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	10	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	7.4	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	7.6	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	6.2	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	4.8	ug/kg	
106-47-8	4-Chloroaniline	ND	170	8.8	ug/kg	
86-74-8	Carbazole	ND	67	3.7	ug/kg	
105-60-2	Caprolactam	ND	67	21	ug/kg	
218-01-9	Chrysene	ND	33	5.4	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.6	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MB1	Z110386.D	1	05/05/16	AD	05/04/16	OP93597	EZ5515

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	7.6	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	6.3	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	6.3	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	8.6	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	12	ug/kg	
132-64-9	Dibenzofuran	ND	67	4.6	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	3.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	4.5	ug/kg	
84-66-2	Diethyl phthalate	ND	67	4.2	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	4.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	12	ug/kg	
206-44-0	Fluoranthene	ND	33	4.1	ug/kg	
86-73-7	Fluorene	ND	33	4.0	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	6.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	8.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	53	ug/kg	
67-72-1	Hexachloroethane	ND	170	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	17	ug/kg	
78-59-1	Isophorone	ND	67	6.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	5.4	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	6.2	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.6	ug/kg	
99-09-2	3-Nitroaniline	ND	170	9.5	ug/kg	
100-01-6	4-Nitroaniline	ND	170	11	ug/kg	
98-95-3	Nitrobenzene	ND	67	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.9	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	18	ug/kg	
85-01-8	Phenanthrene	ND	33	3.7	ug/kg	
129-00-0	Pyrene	ND	33	4.2	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	78%	30-106%

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MB1	Z110386.D	1	05/05/16	AD	05/04/16	OP93597	EZ5515

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	82%	30-106%
118-79-6	2,4,6-Tribromophenol	93%	24-140%
4165-60-0	Nitrobenzene-d5	112%	26-122%
321-60-8	2-Fluorobiphenyl	95%	36-112%
1718-51-0	Terphenyl-d14	105%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.48	420	ug/kg	J
	system artifact	2.79	330	ug/kg	J
	system artifact/aldol-condensation	2.92	140	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MB1	F156832.D	1	05/05/16	LK	05/04/16	OP93597	EF6603

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	23	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	80	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	49	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	ND	67	38	ug/kg	
88-75-5	2-Nitrophenol	ND	170	29	ug/kg	
100-02-7	4-Nitrophenol	ND	330	93	ug/kg	
87-86-5	Pentachlorophenol	ND	170	28	ug/kg	
108-95-2	Phenol	ND	67	26	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	43	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	48	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	37	ug/kg	
83-32-9	Acenaphthene	ND	33	6.3	ug/kg	
208-96-8	Acenaphthylene	ND	33	4.6	ug/kg	
98-86-2	Acetophenone	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	33	14	ug/kg	
1912-24-9	Atrazine	ND	67	11	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	5.1	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	8.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	7.0	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	8.9	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	9.5	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	9.4	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	6.3	ug/kg	
106-47-8	4-Chloroaniline	ND	170	9.5	ug/kg	
86-74-8	Carbazole	ND	67	6.5	ug/kg	
105-60-2	Caprolactam	ND	67	24	ug/kg	
218-01-9	Chrysene	ND	33	8.5	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.0	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	19	ug/kg	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MB1	F156832.D	1	05/05/16	LK	05/04/16	OP93597	EF6603

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	8.9	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	10	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	13	ug/kg	
132-64-9	Dibenzofuran	ND	67	6.0	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	21	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.5	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	6.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.3	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	20	ug/kg	
67-72-1	Hexachloroethane	ND	170	25	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	11	ug/kg	
78-59-1	Isophorone	ND	67	7.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	5.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
88-74-4	2-Nitroaniline	ND	170	24	ug/kg	
99-09-2	3-Nitroaniline	ND	170	12	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
98-95-3	Nitrobenzene	ND	67	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	15	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	19	ug/kg	
85-01-8	Phenanthrene	ND	33	8.0	ug/kg	
129-00-0	Pyrene	ND	33	5.8	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	7.5	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	93%	30-106%

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MB1	F156832.D	1	05/05/16	LK	05/04/16	OP93597	EF6603

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	93%	30-106%
118-79-6	2,4,6-Tribromophenol	109%	24-140%
4165-60-0	Nitrobenzene-d5	105%	26-122%
321-60-8	2-Fluorobiphenyl	93%	36-112%
1718-51-0	Terphenyl-d14	104%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.16	470	ug/kg	J
	system artifact	3.37	140	ug/kg	J
	system artifact	3.48	340	ug/kg	J
	system artifact/aldol-condensation	3.53	170	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MB1	3E83091.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	23	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	80	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	49	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	ND	67	38	ug/kg	
88-75-5	2-Nitrophenol	ND	170	29	ug/kg	
100-02-7	4-Nitrophenol	ND	330	93	ug/kg	
87-86-5	Pentachlorophenol	ND	170	28	ug/kg	
108-95-2	Phenol	ND	67	26	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	43	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	48	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	37	ug/kg	
83-32-9	Acenaphthene	ND	33	6.3	ug/kg	
208-96-8	Acenaphthylene	ND	33	4.6	ug/kg	
98-86-2	Acetophenone	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	33	14	ug/kg	
1912-24-9	Atrazine	ND	67	11	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	5.1	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	8.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	7.0	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	8.9	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	9.5	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	9.4	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	6.3	ug/kg	
106-47-8	4-Chloroaniline	ND	170	9.5	ug/kg	
86-74-8	Carbazole	ND	67	6.5	ug/kg	
105-60-2	Caprolactam	ND	67	24	ug/kg	
218-01-9	Chrysene	ND	33	8.5	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.0	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	19	ug/kg	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MB1	3E83091.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	8.9	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	10	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	13	ug/kg	
132-64-9	Dibenzofuran	ND	67	6.0	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	21	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.5	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	6.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.3	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	20	ug/kg	
67-72-1	Hexachloroethane	ND	170	25	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	11	ug/kg	
78-59-1	Isophorone	ND	67	7.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	5.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
88-74-4	2-Nitroaniline	ND	170	24	ug/kg	
99-09-2	3-Nitroaniline	ND	170	12	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
98-95-3	Nitrobenzene	ND	67	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	15	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	19	ug/kg	
85-01-8	Phenanthrene	ND	33	8.0	ug/kg	
129-00-0	Pyrene	ND	33	5.8	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	7.5	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	77%	30-106%

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MB1	3E83091.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	76%	30-106%
118-79-6	2,4,6-Tribromophenol	85%	24-140%
4165-60-0	Nitrobenzene-d5	86%	26-122%
321-60-8	2-Fluorobiphenyl	96%	36-112%
1718-51-0	Terphenyl-d14	105%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.75	380	ug/kg	J
	system artifact	3.08	290	ug/kg	J
	system artifact/aldol-condensation	3.15	210	ug/kg	J
	Internal standard added for SIM test	4.53	140	ug/kg	J
	Internal standard added for SIM test	6.26	160	ug/kg	J
	system artifact	7.13	140	ug/kg	J
	Internal standard added for SIM test	8.19	150	ug/kg	J
	Internal standard added for SIM test	11.47	150	ug/kg	J
	Internal standard added for SIM test	15.78	150	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534A-MB1	3M60994.D	1	05/02/16	LK	05/02/16	OP93534A	E3M2868

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC19423-2

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	24-125%
321-60-8	2-Fluorobiphenyl	86%	19-127%
1718-51-0	Terphenyl-d14	110%	10-119%

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597A-MB1	3M61092.D	1	05/05/16	LK	05/04/16	OP93597A	E3M2872

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC19423-1

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	3.3	0.67	ug/kg	
91-20-3	Naphthalene	ND	3.3	0.41	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	93%	15-138%
321-60-8	2-Fluorobiphenyl	93%	12-148%
1718-51-0	Terphenyl-d14	115%	10-157%

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597A-MB1	3M61122.D	1	05/06/16	LK	05/04/16	OP93597A	E3M2874

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC19423-1

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	3.3	0.67	ug/kg	
91-20-3	Naphthalene	ND	3.3	0.41	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	92%	15-138%
321-60-8	2-Fluorobiphenyl	94%	12-148%
1718-51-0	Terphenyl-d14	116%	10-157%

Blank Spike Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-BS1	5P27880.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	45.5	91	48-106
59-50-7	4-Chloro-3-methyl phenol	50	48.2	96	49-113
120-83-2	2,4-Dichlorophenol	50	45.1	90	49-111
105-67-9	2,4-Dimethylphenol	50	55.5	111	42-117
51-28-5	2,4-Dinitrophenol	100	95.9	96	37-132
534-52-1	4,6-Dinitro-o-cresol	50	53.1	106	49-119
95-48-7	2-Methylphenol	50	47.6	95	42-103
	3&4-Methylphenol	50	43.9	88	39-110
88-75-5	2-Nitrophenol	50	48.0	96	49-114
100-02-7	4-Nitrophenol	50	31.5	63	16-95
87-86-5	Pentachlorophenol	50	42.3	85	30-136
108-95-2	Phenol	50	26.7	53	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	42.9	86	47-118
95-95-4	2,4,5-Trichlorophenol	50	44.1	88	55-116
88-06-2	2,4,6-Trichlorophenol	50	47.2	94	56-115
83-32-9	Acenaphthene	50	43.4	87	54-112
208-96-8	Acenaphthylene	50	42.7	85	49-99
98-86-2	Acetophenone	50	50.4	101	52-111
120-12-7	Anthracene	50	45.0	90	58-112
1912-24-9	Atrazine	50	49.7	99	62-134
100-52-7	Benzaldehyde	50	50.0	100	40-129
56-55-3	Benzo(a)anthracene	50	46.8	94	44-120
50-32-8	Benzo(a)pyrene	50	45.4	91	41-127
205-99-2	Benzo(b)fluoranthene	50	48.6	97	41-129
191-24-2	Benzo(g,h,i)perylene	50	46.5	93	34-128
207-08-9	Benzo(k)fluoranthene	50	48.1	96	42-122
101-55-3	4-Bromophenyl phenyl ether	50	40.8	82	54-121
85-68-7	Butyl benzyl phthalate	50	51.0	102	20-143
92-52-4	1,1'-Biphenyl	50	44.1	88	51-106
91-58-7	2-Chloronaphthalene	50	38.4	77	48-104
106-47-8	4-Chloroaniline	50	24.4	49	10-110
86-74-8	Carbazole	50	47.7	95	56-110
105-60-2	Caprolactam	50	18.0	36	10-110
218-01-9	Chrysene	50	46.3	93	45-125
111-91-1	bis(2-Chloroethoxy)methane	50	42.8	86	47-117
111-44-4	bis(2-Chloroethyl)ether	50	46.3	93	48-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-BS1	5P27880.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	49.5	99	44-112
7005-72-3	4-Chlorophenyl phenyl ether	50	38.4	77	50-117
121-14-2	2,4-Dinitrotoluene	50	52.0	104	57-122
606-20-2	2,6-Dinitrotoluene	50	51.4	103	58-122
91-94-1	3,3'-Dichlorobenzidine	100	55.5	56	10-110
123-91-1	1,4-Dioxane	50	27.1	54	10-110
53-70-3	Dibenzo(a,h)anthracene	50	48.8	98	36-130
132-64-9	Dibenzofuran	50	46.2	92	55-108
84-74-2	Di-n-butyl phthalate	50	49.9	100	45-123
117-84-0	Di-n-octyl phthalate	50	55.8	112	37-144
84-66-2	Diethyl phthalate	50	46.8	94	23-130
131-11-3	Dimethyl phthalate	50	45.7	91	10-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	52.9	106	36-138
206-44-0	Fluoranthene	50	46.3	93	58-116
86-73-7	Fluorene	50	45.2	90	57-113
118-74-1	Hexachlorobenzene	50	44.0	88	49-122
87-68-3	Hexachlorobutadiene	50	30.4	61	24-112
77-47-4	Hexachlorocyclopentadiene	100	53.2	53	14-119
67-72-1	Hexachloroethane	50	32.8	66	31-107
193-39-5	Indeno(1,2,3-cd)pyrene	50	49.8	100	34-128
78-59-1	Isophorone	50	50.0	100	52-119
90-12-0	1-Methylnaphthalene	50	44.7	89	46-103
91-57-6	2-Methylnaphthalene	50	44.4	89	45-107
88-74-4	2-Nitroaniline	50	58.6	117	51-127
99-09-2	3-Nitroaniline	50	31.0	62	10-110
100-01-6	4-Nitroaniline	50	48.3	97	50-112
98-95-3	Nitrobenzene	50	45.3	91	44-116
621-64-7	N-Nitroso-di-n-propylamine	50	49.4	99	49-117
86-30-6	N-Nitrosodiphenylamine	50	45.3	91	51-113
85-01-8	Phenanthrene	50	45.1	90	56-111
129-00-0	Pyrene	50	47.9	96	47-120
95-94-3	1,2,4,5-Tetrachlorobenzene	50	34.2	68	36-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-BS1	5P27880.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	67%	14-88%
4165-62-2	Phenol-d5	49%	10-110%
118-79-6	2,4,6-Tribromophenol	108%	39-149%
4165-60-0	Nitrobenzene-d5	98%	32-128%
321-60-8	2-Fluorobiphenyl	91%	35-119%
1718-51-0	Terphenyl-d14	106%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-BS1	3E83092.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1250	75	54-98
59-50-7	4-Chloro-3-methyl phenol	1670	1350	81	52-107
120-83-2	2,4-Dichlorophenol	1670	1620	97	53-105
105-67-9	2,4-Dimethylphenol	1670	1390	83	49-115
51-28-5	2,4-Dinitrophenol	3330	2750	83	30-127
534-52-1	4,6-Dinitro-o-cresol	1670	1420	85	41-114
95-48-7	2-Methylphenol	1670	1190	71	53-103
	3&4-Methylphenol	1670	1160	70	53-102
88-75-5	2-Nitrophenol	1670	1340	80	52-104
100-02-7	4-Nitrophenol	1670	1450	87	36-143
87-86-5	Pentachlorophenol	1670	1110	67	29-128
108-95-2	Phenol	1670	1100	66	45-106
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1430	86	47-113
95-95-4	2,4,5-Trichlorophenol	1670	1410	85	55-112
88-06-2	2,4,6-Trichlorophenol	1670	1530	92	57-108
83-32-9	Acenaphthene	1670	1340	80	60-108
208-96-8	Acenaphthylene	1670	1240	74	54-94
98-86-2	Acetophenone	1670	1140	68	53-110
120-12-7	Anthracene	1670	1280	77	59-109
1912-24-9	Atrazine	1670	1790	107	59-126
56-55-3	Benzo(a)anthracene	1670	1350	81	52-113
50-32-8	Benzo(a)pyrene	1670	1360	82	56-122
205-99-2	Benzo(b)fluoranthene	1670	1420	85	53-119
191-24-2	Benzo(g,h,i)perylene	1670	1260	76	48-117
207-08-9	Benzo(k)fluoranthene	1670	1450	87	52-115
101-55-3	4-Bromophenyl phenyl ether	1670	1580	95	58-114
85-68-7	Butyl benzyl phthalate	1670	1260	76	44-132
92-52-4	1,1'-Biphenyl	1670	1340	80	54-101
100-52-7	Benzaldehyde	1670	961	58	39-117
91-58-7	2-Chloronaphthalene	1670	1380	83	54-103
106-47-8	4-Chloroaniline	1670	888	53	10-110
86-74-8	Carbazole	1670	1310	79	55-105
105-60-2	Caprolactam	1670	1220	73	42-111
218-01-9	Chrysene	1670	1320	79	51-119
111-91-1	bis(2-Chloroethoxy)methane	1670	1260	76	51-106
111-44-4	bis(2-Chloroethyl)ether	1670	1250	75	48-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-BS1	3E83092.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1670	1160	70	46-103
7005-72-3	4-Chlorophenyl phenyl ether	1670	1530	92	54-112
121-14-2	2,4-Dinitrotoluene	1670	1400	84	56-116
606-20-2	2,6-Dinitrotoluene	1670	1420	85	56-115
91-94-1	3,3'-Dichlorobenzidine	3330	2270	68	22-103
53-70-3	Dibenzo(a,h)anthracene	1670	1310	79	49-118
132-64-9	Dibenzofuran	1670	1330	80	55-103
84-74-2	Di-n-butyl phthalate	1670	1340	80	56-117
117-84-0	Di-n-octyl phthalate	1670	1250	75	47-137
84-66-2	Diethyl phthalate	1670	1380	83	54-112
131-11-3	Dimethyl phthalate	1670	1410	85	56-108
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1250	75	45-130
206-44-0	Fluoranthene	1670	1430	86	58-110
86-73-7	Fluorene	1670	1380	83	59-108
118-74-1	Hexachlorobenzene	1670	1470	88	55-114
87-68-3	Hexachlorobutadiene	1670	1800	108	44-118
77-47-4	Hexachlorocyclopentadiene	3330	2430	73	41-137
67-72-1	Hexachloroethane	1670	1580	95	50-107
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1340	80	48-120
78-59-1	Isophorone	1670	1320	79	54-109
90-12-0	1-Methylnaphthalene	1670	1420	85	50-110
91-57-6	2-Methylnaphthalene	1670	1360	82	48-104
88-74-4	2-Nitroaniline	1670	1280	77	49-124
99-09-2	3-Nitroaniline	1670	967	58	22-110
100-01-6	4-Nitroaniline	1670	1250	75	50-107
98-95-3	Nitrobenzene	1670	1340	80	47-108
621-64-7	N-Nitroso-di-n-propylamine	1670	1090	65	49-106
86-30-6	N-Nitrosodiphenylamine	1670	1370	82	53-112
85-01-8	Phenanthrene	1670	1310	79	57-105
129-00-0	Pyrene	1670	1440	86	50-117
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1950	117* [a]	52-109

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	79%	30-106%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-BS1	3E83092.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	73%	30-106%
118-79-6	2,4,6-Tribromophenol	98%	24-140%
4165-60-0	Nitrobenzene-d5	87%	26-122%
321-60-8	2-Fluorobiphenyl	93%	36-112%
1718-51-0	Terphenyl-d14	95%	36-132%

(a) Outside of in house control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534A-BS12	3M60995.D	1	05/02/16	LK	05/02/16	OP93534A	E3M2868

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC19423-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.796	80	40-119

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	82%	24-125%
321-60-8	2-Fluorobiphenyl	89%	19-127%
1718-51-0	Terphenyl-d14	114%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597A-BS12	3M61123.D	1	05/06/16	LK	05/04/16	OP93597A	E3M2874

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC19423-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
123-91-1	1,4-Dioxane	167	20.0	12	10-100
91-20-3	Naphthalene	33.3	26.3	79	35-142

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	91%	15-138%
321-60-8	2-Fluorobiphenyl	96%	12-148%
1718-51-0	Terphenyl-d14	115%	10-157%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-MS	5P27895.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414
OP93534-MSD	5P27896.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414
JC19382-2	3E82896.D	1	05/04/16	AN	05/02/16	OP93534	E3E3634

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Compound	JC19382-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	94.1	94	100	95.2	95	1	49-110/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	103	103	100	104	104	1	44-121/18
120-83-2	2,4-Dichlorophenol	ND		100	91.4	91	100	96.4	96	5	42-120/19
105-67-9	2,4-Dimethylphenol	ND		100	107	107	100	110	110	3	33-132/23
51-28-5	2,4-Dinitrophenol	ND		200	185	93	200	186	93	1	21-145/26
534-52-1	4,6-Dinitro-o-cresol	ND		100	104	104	100	110	110	6	25-134/27
95-48-7	2-Methylphenol	ND		100	102	102	100	103	103	1	47-112/18
	3&4-Methylphenol	ND		100	101	101	100	101	101	0	44-113/19
88-75-5	2-Nitrophenol	ND		100	98.8	99	100	98.6	99	0	45-118/20
100-02-7	4-Nitrophenol	ND		100	96.6	97	100	100	100	3	23-144/28
87-86-5	Pentachlorophenol	ND		100	90.5	91	100	93.4	93	3	25-151/25
108-95-2	Phenol	ND		100	79.0	79	100	77.0	77	3	22-100/22
58-90-2	2,3,4,6-Tetrachlorophenol	ND		100	90.2	90	100	88.2	88	2	44-122/21
95-95-4	2,4,5-Trichlorophenol	ND		100	89.4	89	100	92.5	93	3	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		100	93.0	93	100	93.4	93	0	53-120/21
83-32-9	Acenaphthene	ND		100	92.9	93	100	93.7	94	1	52-120/23
208-96-8	Acenaphthylene	ND		100	90.0	90	100	90.1	90	0	50-101/22
98-86-2	Acetophenone	ND		100	99.8	100	100	101	101	1	31-141/23
120-12-7	Anthracene	ND		100	91.9	92	100	93.2	93	1	54-117/22
1912-24-9	Atrazine	ND		100	102	102	100	104	104	2	42-152/23
100-52-7	Benzaldehyde	ND		100	97.7	98	100	99.6	100	2	10-164/30
56-55-3	Benzo(a)anthracene	ND		100	95.3	95	100	96.8	97	2	40-123/24
50-32-8	Benzo(a)pyrene	ND		100	93.2	93	100	92.1	92	1	41-127/25
205-99-2	Benzo(b)fluoranthene	ND		100	94.8	95	100	96.3	96	2	39-127/27
191-24-2	Benzo(g,h,i)perylene	ND		100	93.9	94	100	92.0	92	2	34-128/28
207-08-9	Benzo(k)fluoranthene	ND		100	99.0	99	100	99.1	99	0	39-122/26
101-55-3	4-Bromophenyl phenyl ether	ND		100	85.9	86	100	89.9	90	5	51-124/23
85-68-7	Butyl benzyl phthalate	ND		100	105	105	100	106	106	1	21-146/28
92-52-4	1,1'-Biphenyl	ND		100	91.2	91	100	89.9	90	1	27-142/23
91-58-7	2-Chloronaphthalene	ND		100	84.6	85	100	84.3	84	0	51-109/23
106-47-8	4-Chloroaniline	ND		100	41.2	41	100	54.4	54	28	10-110/55
86-74-8	Carbazole	ND		100	95.5	96	100	98.7	99	3	52-116/22
105-60-2	Caprolactam	6.8		100	74.1	67	100	69.8	63	6	10-106/34
218-01-9	Chrysene	ND		100	90.6	91	100	93.8	94	3	41-128/24
111-91-1	bis(2-Chloroethoxy)methane	ND		100	87.3	87	100	87.4	87	0	46-120/24
111-44-4	bis(2-Chloroethyl)ether	ND		100	89.6	90	100	94.6	95	5	42-123/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-MS	5P27895.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414
OP93534-MSD	5P27896.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414
JC19382-2	3E82896.D	1	05/04/16	AN	05/02/16	OP93534	E3E3634

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Compound	JC19382-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	98.5	99	100	99.3	99	1	41-117/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	85.4	85	100	85.9	86	1	48-121/21
121-14-2	2,4-Dinitrotoluene	ND		100	108	108	100	108	108	0	54-123/27
606-20-2	2,6-Dinitrotoluene	ND		100	101	101	100	105	105	4	55-125/26
91-94-1	3,3'-Dichlorobenzidine	ND		200	112	56	200	130	65	15	10-107/47
123-91-1	1,4-Dioxane	ND		100	68.3	68	100	70.7	71	3	10-119/31
53-70-3	Dibenzo(a,h)anthracene	ND		100	99.3	99	100	94.7	95	5	35-130/27
132-64-9	Dibenzofuran	ND		100	92.9	93	100	92.5	93	0	53-112/22
84-74-2	Di-n-butyl phthalate	ND		100	99.3	99	100	102	102	3	38-129/23
117-84-0	Di-n-octyl phthalate	ND		100	109	109	100	112	112	3	35-145/26
84-66-2	Diethyl phthalate	ND		100	93.0	93	100	93.1	93	0	16-136/30
131-11-3	Dimethyl phthalate	ND		100	90.8	91	100	91.6	92	1	10-143/39
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	104	104	100	107	107	3	34-141/28
206-44-0	Fluoranthene	ND		100	93.0	93	100	94.2	94	1	47-123/24
86-73-7	Fluorene	ND		100	91.4	91	100	93.4	93	2	56-117/22
118-74-1	Hexachlorobenzene	ND		100	91.9	92	100	91.0	91	1	46-125/24
87-68-3	Hexachlorobutadiene	ND		100	72.1	72	100	72.2	72	0	26-121/24
77-47-4	Hexachlorocyclopentadiene	ND		200	133	67	200	135	68	1	10-133/31
67-72-1	Hexachloroethane	ND		100	72.5	73	100	72.4	72	0	35-111/26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	105	105	100	96.1	96	9	32-130/30
78-59-1	Isophorone	ND		100	101	101	100	100	100	1	47-126/23
90-12-0	1-Methylnaphthalene	ND		100	96.0	96	100	96.3	96	0	34-124/25
91-57-6	2-Methylnaphthalene	ND		100	90.3	90	100	92.6	93	3	34-123/24
88-74-4	2-Nitroaniline	ND		100	118	118	100	119	119	1	46-137/23
99-09-2	3-Nitroaniline	ND		100	64.4	64	100	71.5	72	10	10-110/50
100-01-6	4-Nitroaniline	ND		100	99.0	99	100	97.6	98	1	38-118/25
98-95-3	Nitrobenzene	ND		100	91.0	91	100	91.9	92	1	35-130/25
621-64-7	N-Nitroso-di-n-propylamine	ND		100	97.6	98	100	98.0	98	0	45-123/22
86-30-6	N-Nitrosodiphenylamine	ND		100	81.8	82	100	83.7	84	2	46-123/24
85-01-8	Phenanthrene	ND		100	91.1	91	100	92.8	93	2	48-121/23
129-00-0	Pyrene	ND		100	98.7	99	100	100	100	1	43-124/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		100	76.9	77	100	79.8	80	4	25-142/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534-MS	5P27895.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414
OP93534-MSD	5P27896.D	1	05/02/16	AN	05/02/16	OP93534	E5P1414
JC19382-2	3E82896.D	1	05/04/16	AN	05/02/16	OP93534	E3E3634

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-2

CAS No.	Surrogate Recoveries	MS	MSD	JC19382-2	Limits
367-12-4	2-Fluorophenol	87%	87%		14-88%
4165-62-2	Phenol-d5	78%	76%		10-110%
118-79-6	2,4,6-Tribromophenol	113%	117%		39-149%
4165-60-0	Nitrobenzene-d5	99%	101%	90%	32-128%
321-60-8	2-Fluorobiphenyl	95%	93%	88%	35-119%
1718-51-0	Terphenyl-d14	79%	77%	101%	10-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MS	3E83095.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643
OP93597-MSD	3E83096.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643
JC19414-1	3E83094.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Compound	JC19414-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1710	972	57	1800	940	52	3	33-106/35
59-50-7	4-Chloro-3-methyl phenol	ND		1710	1070	63	1800	1050	58	2	27-124/34
120-83-2	2,4-Dichlorophenol	ND		1710	1270	74	1800	1230	68	3	25-122/34
105-67-9	2,4-Dimethylphenol	ND		1710	1070	63	1800	1000	56	7	23-133/34
51-28-5	2,4-Dinitrophenol	ND		3420	2090	61	3600	1960	54	6	10-110/51
534-52-1	4,6-Dinitro-o-cresol	ND		1710	1150	67	1800	1100	61	4	10-113/49
95-48-7	2-Methylphenol	ND		1710	943	55	1800	882	49	7	32-111/34
	3&4-Methylphenol	ND		1710	957	56	1800	906	50	5	32-113/34
88-75-5	2-Nitrophenol	ND		1710	1030	60	1800	1010	56	2	17-118/37
100-02-7	4-Nitrophenol	ND		1710	1210	71	1800	1180	66	3	14-154/39
87-86-5	Pentachlorophenol	ND		1710	880	51	1800	825	46	6	10-131/43
108-95-2	Phenol	ND		1710	868	51	1800	857	48	1	25-112/33
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1710	1150	67	1800	1170	65	2	19-125/37
95-95-4	2,4,5-Trichlorophenol	ND		1710	1120	65	1800	1080	60	4	30-125/35
88-06-2	2,4,6-Trichlorophenol	ND		1710	1250	73	1800	1240	69	1	26-126/35
83-32-9	Acenaphthene	ND		1710	1120	65	1800	1080	60	4	34-125/36
208-96-8	Acenaphthylene	ND		1710	1040	61	1800	1010	56	3	28-113/34
98-86-2	Acetophenone	ND		1710	950	56	1800	892	50	6	26-120/34
120-12-7	Anthracene	ND		1710	1060	62	1800	1020	57	4	31-131/41
1912-24-9	Atrazine	ND		1710	1500	88	1800	1420	79	5	34-138/36
56-55-3	Benzo(a)anthracene	ND		1710	1130	66	1800	1070	59	5	23-136/43
50-32-8	Benzo(a)pyrene	ND		1710	1120	65	1800	1120	62	0	22-144/42
205-99-2	Benzo(b)fluoranthene	ND		1710	1150	67	1800	1140	63	1	18-145/43
191-24-2	Benzo(g,h,i)perylene	ND		1710	1080	63	1800	1020	57	6	20-138/43
207-08-9	Benzo(k)fluoranthene	ND		1710	1230	72	1800	1210	67	2	27-129/43
101-55-3	4-Bromophenyl phenyl ether	ND		1710	1290	75	1800	1220	68	6	39-124/33
85-68-7	Butyl benzyl phthalate	ND		1710	1050	61	1800	1020	57	3	27-143/35
92-52-4	1,1'-Biphenyl	ND		1710	1110	65	1800	1060	59	5	33-116/32
100-52-7	Benzaldehyde	ND		1710	839	49	1800	828	46	1	20-129/34
91-58-7	2-Chloronaphthalene	ND		1710	1130	66	1800	1090	61	4	38-110/32
106-47-8	4-Chloroaniline	ND		1710	817	48	1800	794	44	3	10-110/49
86-74-8	Carbazole	ND		1710	1080	63	1800	1060	59	2	27-129/38
105-60-2	Caprolactam	ND		1710	962	56	1800	916	51	5	18-127/35
218-01-9	Chrysene	ND		1710	1120	65	1800	1060	59	6	21-142/43
111-91-1	bis(2-Chloroethoxy)methane	ND		1710	1010	59	1800	980	54	3	32-116/33
111-44-4	bis(2-Chloroethyl)ether	ND		1710	1010	59	1800	969	54	4	30-113/37

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MS	3E83095.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643
OP93597-MSD	3E83096.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643
JC19414-1	3E83094.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Compound	JC19414-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		1710	927	54	1800	842	47	10	28-110/33
7005-72-3	4-Chlorophenyl phenyl ether	ND		1710	1270	74	1800	1250	69	2	38-119/33
121-14-2	2,4-Dinitrotoluene	ND		1710	1160	68	1800	1070	59	8	28-126/36
606-20-2	2,6-Dinitrotoluene	ND		1710	1160	68	1800	1150	64	1	31-126/34
91-94-1	3,3'-Dichlorobenzidine	ND		3420	1980	58	3600	1870	52	6	10-115/44
53-70-3	Dibenzo(a,h)anthracene	ND		1710	1080	63	1800	1040	58	4	25-135/41
132-64-9	Dibenzofuran	ND		1710	1100	64	1800	1080	60	2	30-125/35
84-74-2	Di-n-butyl phthalate	ND		1710	1110	65	1800	1090	61	2	32-131/34
117-84-0	Di-n-octyl phthalate	ND		1710	1020	60	1800	1050	58	3	28-144/35
84-66-2	Diethyl phthalate	ND		1710	1150	67	1800	1130	63	2	35-124/32
131-11-3	Dimethyl phthalate	ND		1710	1170	68	1800	1130	63	3	36-121/33
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1710	1040	61	1800	1030	57	1	25-146/35
206-44-0	Fluoranthene	ND		1710	1200	70	1800	1110	62	8	15-143/46
86-73-7	Fluorene	ND		1710	1140	67	1800	1100	61	4	30-129/37
118-74-1	Hexachlorobenzene	ND		1710	1220	71	1800	1150	64	6	34-125/34
87-68-3	Hexachlorobutadiene	ND		1710	1410	82	1800	1330	74	6	29-120/34
77-47-4	Hexachlorocyclopentadiene	ND		3420	1870	55	3600	1860	52	1	10-127/46
67-72-1	Hexachloroethane	ND		1710	1240	72	1800	1240	69	0	21-109/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1710	1070	63	1800	1030	57	4	23-141/44
78-59-1	Isophorone	ND		1710	1050	61	1800	1040	58	1	31-124/32
90-12-0	1-Methylnaphthalene	ND		1710	1150	67	1800	1130	63	2	24-122/33
91-57-6	2-Methylnaphthalene	ND		1710	1100	64	1800	1100	61	0	21-125/33
88-74-4	2-Nitroaniline	ND		1710	1050	61	1800	1040	58	1	29-138/33
99-09-2	3-Nitroaniline	ND		1710	850	50	1800	836	46	2	12-112/38
100-01-6	4-Nitroaniline	ND		1710	1030	60	1800	1010	56	2	21-117/38
98-95-3	Nitrobenzene	ND		1710	1040	61	1800	1030	57	1	28-118/32
621-64-7	N-Nitroso-di-n-propylamine	ND		1710	886	52	1800	862	48	3	26-121/34
86-30-6	N-Nitrosodiphenylamine	ND		1710	1130	66	1800	1070	59	5	24-142/35
85-01-8	Phenanthrene	ND		1710	1100	64	1800	1050	58	5	14-144/44
129-00-0	Pyrene	ND		1710	1160	68	1800	1140	63	2	16-147/46
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1710	1560	91	1800	1510	84	3	37-115/32

CAS No.	Surrogate Recoveries	MS	MSD	JC19414-1	Limits
367-12-4	2-Fluorophenol	56%	52%		30-106%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597-MS	3E83095.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643
OP93597-MSD	3E83096.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643
JC19414-1	3E83094.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC19423-1

CAS No.	Surrogate Recoveries	MS	MSD	JC19414-1	Limits
4165-62-2	Phenol-d5	54%	50%		30-106%
118-79-6	2,4,6-Tribromophenol	71%	65%		24-140%
4165-60-0	Nitrobenzene-d5	65%	60%	69%	26-122%
321-60-8	2-Fluorobiphenyl	70%	65%	79%	36-112%
1718-51-0	Terphenyl-d14	69%	65%	79%	36-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93534A-MS2	3M61013.D	1	05/02/16	LK	05/02/16	OP93534A	E3M2868
OP93534A-MSD2	3M61014.D	1	05/03/16	LK	05/02/16	OP93534A	E3M2868
JC19423-2	3M61012.D	1	05/02/16	LK	05/02/16	OP93534A	E3M2868

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC19423-2

CAS No.	Compound	JC19423-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	ND		1.12	0.756	67	1.12	0.972	87	25	23-140/36

CAS No.	Surrogate Recoveries	MS	MSD	JC19423-2	Limits
4165-60-0	Nitrobenzene-d5	71%	93%	84%	24-125%
321-60-8	2-Fluorobiphenyl	78%	90%	91%	19-127%
1718-51-0	Terphenyl-d14	90%	92%	101%	10-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93597A-MS	3M61097.D	1	05/05/16	LK	05/04/16	OP93597A	E3M2872
OP93597A-MSD	3M61098.D	1	05/05/16	LK	05/04/16	OP93597A	E3M2872
JC19423-1	3M61124.D	1	05/06/16	LK	05/04/16	OP93597A	E3M2874

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC19423-1

CAS No.	Compound	JC19423-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND		224	23.1	10* [a]	205	21.0	10* [a]	10	50-150/30
91-20-3	Naphthalene	ND		44.9	45.5	101	41	34.0	83	29	10-190/36

CAS No.	Surrogate Recoveries	MS	MSD	JC19423-1	Limits
4165-60-0	Nitrobenzene-d5	80%	66%	81%	15-138%
321-60-8	2-Fluorobiphenyl	95%	78%	85%	12-148%
1718-51-0	Terphenyl-d14	99%	87%	96%	10-157%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3E3621-DFTPP
Lab File ID: 3E82668.D
Instrument ID: GCMS3E
Injection Date: 04/26/16
Injection Time: 13:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36856	41.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	41596	46.6		Pass
70	Less than 2.0% of mass 69	473	0.53	(1.14) [a]	Pass
127	40.0 - 60.0% of mass 198	53290	59.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	89282	100.0		Pass
199	5.0 - 9.0% of mass 198	6277	7.03		Pass
275	10.0 - 30.0% of mass 198	24445	27.4		Pass
365	1.0 - 100.0% of mass 198	3823	4.28		Pass
441	Present, but less than mass 443	11945	13.4	(81.7) [b]	Pass
442	40.0 - 100.0% of mass 198	75784	84.9		Pass
443	17.0 - 23.0% of mass 442	14615	16.4	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3E3621-IC3621	3E82669.D	04/26/16	13:34	00:19	Initial cal 100
E3E3621-IC3621	3E82670.D	04/26/16	14:00	00:45	Initial cal 80
E3E3621-ICC3621	3E82671.D	04/26/16	14:26	01:11	Initial cal 50
E3E3621-IC3621	3E82672.D	04/26/16	14:52	01:37	Initial cal 25
E3E3621-IC3621	3E82673.D	04/26/16	15:19	02:04	Initial cal 10
E3E3621-IC3621	3E82674.D	04/26/16	15:45	02:30	Initial cal 5
E3E3621-IC3621	3E82675.D	04/26/16	16:11	02:56	Initial cal 2
E3E3621-IC3621	3E82676.D	04/26/16	16:37	03:22	Initial cal 1
E3E3621-ICV3620	3E82677.D	04/26/16	17:03	03:48	Initial cal verification 50
E3E3621-ICV3620	3E82678.D	04/26/16	17:30	04:15	Initial cal verification 50
E3E3621-ICV3620	3E82679.D	04/26/16	17:56	04:41	Initial cal verification 50
E3E3621-ICV3620	3E82680.D	04/26/16	18:22	05:07	Initial cal verification 50
E3E3621-ICV3621	3E82680A.D	04/26/16	18:22	05:07	Initial cal verification 50
E3E3621-ICV3621	3E82681A.D	04/26/16	18:48	05:33	Initial cal verification 50
E3E3621-ICV3620	3E82681.D	04/26/16	18:48	05:33	Initial cal verification 50
E3E3621-ICV3621	3E82683.D	04/26/16	19:40	06:25	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3E3622-DFTPP
Lab File ID: 3E82684.D
Instrument ID: GCMS3E
Injection Date: 04/27/16
Injection Time: 09:39

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	35061	37.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	40730	43.7		Pass
70	Less than 2.0% of mass 69	367	0.39	(0.90) [a]	Pass
127	40.0 - 60.0% of mass 198	55168	59.1		Pass
197	Less than 1.0% of mass 198	108	0.12		Pass
198	Base peak, 100% relative abundance	93304	100.0		Pass
199	5.0 - 9.0% of mass 198	6394	6.85		Pass
275	10.0 - 30.0% of mass 198	24591	26.4		Pass
365	1.0 - 100.0% of mass 198	3692	3.96		Pass
441	Present, but less than mass 443	8486	9.10	(76.4) [b]	Pass
442	40.0 - 100.0% of mass 198	56685	60.8		Pass
443	17.0 - 23.0% of mass 442	11103	11.9	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3E3622-ICV3621	3E82685A.D	04/27/16	11:46	02:07	Initial cal verification 50
E3E3622-ICV3620	3E82685.D	04/27/16	11:46	02:07	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3E3623-DFTPP
Lab File ID: 3E82694.D
Instrument ID: GCMS3E
Injection Date: 04/27/16
Injection Time: 15:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	53138	49.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	52572	49.3		Pass
70	Less than 2.0% of mass 69	250	0.23	(0.48) [a]	Pass
127	40.0 - 60.0% of mass 198	57610	54.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	106714	100.0		Pass
199	5.0 - 9.0% of mass 198	6685	6.26		Pass
275	10.0 - 30.0% of mass 198	29152	27.3		Pass
365	1.0 - 100.0% of mass 198	4414	4.14		Pass
441	Present, but less than mass 443	15379	14.4	(85.2) [b]	Pass
442	40.0 - 100.0% of mass 198	92170	86.4		Pass
443	17.0 - 23.0% of mass 442	18045	16.9	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3E3623-IC3623	3E82702.D	04/27/16	16:10	00:49	Initial cal 2
E3E3623-IC3623	3E82696.D	04/27/16	16:35	01:14	Initial cal 100
E3E3623-ICC3623	3E82697.D	04/27/16	17:01	01:40	Initial cal 50
E3E3623-IC3623	3E82698.D	04/27/16	17:27	02:06	Initial cal 80
E3E3623-IC3623	3E82699.D	04/27/16	17:53	02:32	Initial cal 25
E3E3623-IC3623	3E82700.D	04/27/16	18:18	02:57	Initial cal 10
E3E3623-IC3623	3E82701.D	04/27/16	18:44	03:23	Initial cal 5
E3E3623-IC3623	3E82703.D	04/27/16	19:10	03:49	Initial cal 1
E3E3623-ICV3623	3E82704.D	04/27/16	19:36	04:15	Initial cal verification 50
E3E3623-ICV3623	3E82705.D	04/27/16	20:01	04:40	Initial cal verification 50
E3E3623-ICV3623	3E82706.D	04/27/16	20:27	05:06	Initial cal verification 50
E3E3623-ICV3623	3E82707.D	04/27/16	20:53	05:32	Initial cal verification 50
E3E3623-ICV3623	3E82708.D	04/27/16	21:18	05:57	Initial cal verification 50
E3E3623-ICV3623	3E82709.D	04/27/16	21:44	06:23	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3E3634-DFTPP
Lab File ID: 3E82879.D
Instrument ID: GCMS3E
Injection Date: 05/04/16
Injection Time: 14:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	47923	46.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	48474	47.5		Pass
70	Less than 2.0% of mass 69	501	0.49	(1.03) [a]	Pass
127	40.0 - 60.0% of mass 198	56865	55.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	102136	100.0		Pass
199	5.0 - 9.0% of mass 198	6915	6.77		Pass
275	10.0 - 30.0% of mass 198	29566	28.9		Pass
365	1.0 - 100.0% of mass 198	4786	4.69		Pass
441	Present, but less than mass 443	11196	11.0	(64.6) [b]	Pass
442	40.0 - 100.0% of mass 198	90256	88.4		Pass
443	17.0 - 23.0% of mass 442	17318	17.0	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3E3634-CC3623	3E82880.D	05/04/16	14:38	00:11	Continuing cal 25
E3E3634-CC3621	3E82881.D	05/04/16	15:05	00:38	Continuing cal 25
ZZZZZZ	3E82883.D	05/04/16	15:57	01:30	(unrelated sample)
ZZZZZZ	3E82884.D	05/04/16	16:23	01:56	(unrelated sample)
OP93548-MB1	3E82886.D	05/04/16	17:15	02:48	Method Blank
OP93404-MB1	3E82887.D	05/04/16	17:41	03:14	Method Blank
OP93534-MB1	3E82888.D	05/04/16	18:08	03:41	Method Blank
ZZZZZZ	3E82889.D	05/04/16	18:34	04:07	(unrelated sample)
ZZZZZZ	3E82890.D	05/04/16	19:00	04:33	(unrelated sample)
ZZZZZZ	3E82891.D	05/04/16	19:26	04:59	(unrelated sample)
ZZZZZZ	3E82892.D	05/04/16	19:52	05:25	(unrelated sample)
ZZZZZZ	3E82893.D	05/04/16	20:18	05:51	(unrelated sample)
ZZZZZZ	3E82894.D	05/04/16	20:45	06:18	(unrelated sample)
ZZZZZZ	3E82895.D	05/04/16	21:11	06:44	(unrelated sample)
JC19382-2	3E82896.D	05/04/16	21:37	07:10	(used for QC only; not part of job JC19423)
ZZZZZZ	3E82897.D	05/04/16	22:03	07:36	(unrelated sample)
ZZZZZZ	3E82898.D	05/04/16	22:29	08:02	(unrelated sample)
OP93520-MSD	3E82899.D	05/04/16	22:55	08:28	Matrix Spike Duplicate
ZZZZZZ	3E82900.D	05/04/16	23:21	08:54	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E3E3634-DFTPP	**Injection Date:**	05/04/16
Lab File ID:	3E82879.D	**Injection Time:**	14:27
Instrument ID:	GCMS3E		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3E82901.D	05/04/16	23:47	09:20	(unrelated sample)
ZZZZZZ	3E82903.D	05/05/16	00:39	10:12	(unrelated sample)
ZZZZZZ	3E82904.D	05/05/16	01:05	10:38	(unrelated sample)
ZZZZZZ	3E82906.D	05/05/16	01:57	11:30	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3E3643-DFTPP
Lab File ID: 3E83087.D
Instrument ID: GCMS3E
Injection Date: 05/11/16
Injection Time: 09:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	80544	48.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	71236	42.8		Pass
70	Less than 2.0% of mass 69	991	0.60	(1.39) [a]	Pass
127	40.0 - 60.0% of mass 198	89371	53.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	166336	100.0		Pass
199	5.0 - 9.0% of mass 198	11576	6.96		Pass
275	10.0 - 30.0% of mass 198	48517	29.2		Pass
365	1.0 - 100.0% of mass 198	9106	5.47		Pass
441	Present, but less than mass 443	13080	7.86	(84.1) [b]	Pass
442	40.0 - 100.0% of mass 198	84160	50.6		Pass
443	17.0 - 23.0% of mass 442	15562	9.36	(18.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3E3643-CC3623	3E83088.D	05/11/16	09:23	00:18	Continuing cal 25
E3E3643-CC3621	3E83089.D	05/11/16	09:49	00:44	Continuing cal 25
OP93597-MB1	3E83091.D	05/11/16	10:41	01:36	Method Blank
OP93597-BS1	3E83092.D	05/11/16	11:07	02:02	Blank Spike
ZZZZZZ	3E83093.D	05/11/16	11:33	02:28	(unrelated sample)
JC19414-1	3E83094.D	05/11/16	11:59	02:54	(used for QC only; not part of job JC19423)
OP93597-MS	3E83095.D	05/11/16	12:26	03:21	Matrix Spike
OP93597-MSD	3E83096.D	05/11/16	12:52	03:47	Matrix Spike Duplicate
ZZZZZZ	3E83097.D	05/11/16	13:18	04:13	(unrelated sample)
ZZZZZZ	3E83098.D	05/11/16	13:45	04:40	(unrelated sample)
ZZZZZZ	3E83117.D	05/11/16	15:04	05:59	(unrelated sample)
ZZZZZZ	3E83118.D	05/11/16	15:30	06:25	(unrelated sample)
ZZZZZZ	3E83102.D	05/11/16	16:49	07:44	(unrelated sample)
ZZZZZZ	3E83108.D	05/11/16	17:15	08:10	(unrelated sample)
ZZZZZZ	3E83103.D	05/11/16	17:41	08:36	(unrelated sample)
ZZZZZZ	3E83104.D	05/11/16	18:08	09:03	(unrelated sample)
JC19423-1	3E83105.D	05/11/16	18:35	09:30	MW-20S (7-8)
ZZZZZZ	3E83106.D	05/11/16	19:01	09:56	(unrelated sample)
ZZZZZZ	3E83107.D	05/11/16	19:28	10:23	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E3E3643-DFTPP	**Injection Date:**	05/11/16
Lab File ID:	3E83087.D	**Injection Time:**	09:05
Instrument ID:	GCMS3E		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3E83109.D	05/11/16	19:55	10:50	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2855-DFTPP
Lab File ID: 3M60762.D
Instrument ID: GCMS3M
Injection Date: 04/21/16
Injection Time: 13:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	238296	36.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	313116	47.6		Pass
70	Less than 2.0% of mass 69	3204	0.49	(1.02) [a]	Pass
127	40.0 - 60.0% of mass 198	329840	50.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	657712	100.0		Pass
199	5.0 - 9.0% of mass 198	45100	6.86		Pass
275	10.0 - 30.0% of mass 198	145467	22.1		Pass
365	1.0 - 100.0% of mass 198	14264	2.17		Pass
441	Present, but less than mass 443	68134	10.4	(81.8) [b]	Pass
442	40.0 - 100.0% of mass 198	425304	64.7		Pass
443	17.0 - 23.0% of mass 442	83298	12.7	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2855-ICC2855	3M60763A.D	04/21/16	14:34	01:03	Initial cal 1
E3M2855-IC2855	3M60764A.D	04/21/16	15:07	01:36	Initial cal 0.5
E3M2855-IC2855	3M60765A.D	04/21/16	15:39	02:08	Initial cal 0.2
E3M2855-IC2855	3M60766.D	04/21/16	16:12	02:41	Initial cal 0.1
E3M2855-IC2855	3M60767.D	04/21/16	16:44	03:13	Initial cal 0.05
E3M2855-IC2855	3M60768.D	04/21/16	17:17	03:46	Initial cal 0.02
E3M2855-IC2855	3M60769.D	04/21/16	17:49	04:18	Initial cal 0.01
E3M2855-IC2855	3M60770.D	04/21/16	18:22	04:51	Initial cal 5.0
E3M2855-IC2855	3M60771.D	04/21/16	18:55	05:24	Initial cal 2.5
E3M2855-ICV2855	3M60772.D	04/21/16	19:27	05:56	Initial cal verification 1.0
E3M2855-ICV2855	3M60773.D	04/21/16	20:00	06:29	Initial cal verification 1.0
E3M2855-ICV2855	3M60774.D	04/21/16	20:35	07:04	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2868-DFTPP
Lab File ID: 3M60992.D
Instrument ID: GCMS3M
Injection Date: 05/02/16
Injection Time: 12:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	179815	36.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	241430	49.5		Pass
70	Less than 2.0% of mass 69	942	0.19	(0.39) [a]	Pass
127	40.0 - 60.0% of mass 198	250296	51.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	487595	100.0		Pass
199	5.0 - 9.0% of mass 198	31373	6.43		Pass
275	10.0 - 30.0% of mass 198	119549	24.5		Pass
365	1.0 - 100.0% of mass 198	12436	2.55		Pass
441	Present, but less than mass 443	65712	13.5	(87.9) [b]	Pass
442	40.0 - 100.0% of mass 198	385280	79.0		Pass
443	17.0 - 23.0% of mass 442	74797	15.3	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2868-CC2855	3M60993.D	05/02/16	12:57	00:19	Continuing cal 1.0
OP93534A-MB1	3M60994.D	05/02/16	13:29	00:51	Method Blank
OP93534A-BS12	3M60995.D	05/02/16	14:02	01:24	Blank Spike
ZZZZZZ	3M60996.D	05/02/16	14:34	01:56	(unrelated sample)
JC19382-1	3M60997.D	05/02/16	15:06	02:28	(used for QC only; not part of job JC19423)
ZZZZZZ	3M60998.D	05/02/16	15:39	03:01	(unrelated sample)
ZZZZZZ	3M60999.D	05/02/16	16:11	03:33	(unrelated sample)
ZZZZZZ	3M61000.D	05/02/16	16:43	04:05	(unrelated sample)
ZZZZZZ	3M61001.D	05/02/16	17:16	04:38	(unrelated sample)
ZZZZZZ	3M61002.D	05/02/16	17:48	05:10	(unrelated sample)
ZZZZZZ	3M61003.D	05/02/16	18:21	05:43	(unrelated sample)
ZZZZZZ	3M61004.D	05/02/16	18:53	06:15	(unrelated sample)
ZZZZZZ	3M61005.D	05/02/16	19:25	06:47	(unrelated sample)
ZZZZZZ	3M61006.D	05/02/16	19:58	07:20	(unrelated sample)
ZZZZZZ	3M61007.D	05/02/16	20:30	07:52	(unrelated sample)
ZZZZZZ	3M61008.D	05/02/16	21:03	08:25	(unrelated sample)
ZZZZZZ	3M61009.D	05/02/16	21:35	08:57	(unrelated sample)
ZZZZZZ	3M61010.D	05/02/16	22:08	09:30	(unrelated sample)
ZZZZZZ	3M61011.D	05/02/16	22:40	10:02	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2868-DFTPP
Lab File ID: 3M60992.D
Instrument ID: GCMS3M
Injection Date: 05/02/16
Injection Time: 12:38

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JC19423-2	3M61012.D	05/02/16	23:12	10:34	RA18-GWD
OP93534A-MS2	3M61013.D	05/02/16	23:45	11:07	Matrix Spike
OP93534A-MSD2	3M61014.D	05/03/16	00:17	11:39	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2872-DFTPP
Lab File ID: 3M61090.D
Instrument ID: GCMS3M
Injection Date: 05/05/16
Injection Time: 11:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	182637	35.0		Pass
68	Less than 2.0% of mass 69	20	0.00	(0.01) [a]	Pass
69	Mass 69 relative abundance	238356	45.7		Pass
70	Less than 2.0% of mass 69	792	0.15	(0.33) [a]	Pass
127	40.0 - 60.0% of mass 198	254107	48.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	521835	100.0		Pass
199	5.0 - 9.0% of mass 198	33713	6.46		Pass
275	10.0 - 30.0% of mass 198	126779	24.3		Pass
365	1.0 - 100.0% of mass 198	14515	2.78		Pass
441	Present, but less than mass 443	70469	13.5	(84.6) [b]	Pass
442	40.0 - 100.0% of mass 198	428309	82.1		Pass
443	17.0 - 23.0% of mass 442	83293	16.0	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2872-CC2855	3M61091.D	05/05/16	12:08	00:14	Continuing cal 1
OP93597A-MB1	3M61092.D	05/05/16	12:56	01:02	Method Blank
ZZZZZZ	3M61096.D	05/05/16	15:05	03:11	(unrelated sample)
OP93597A-MS	3M61097.D	05/05/16	15:37	03:43	Matrix Spike
OP93597A-MSD	3M61098.D	05/05/16	16:10	04:16	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2874-DFTPP
Lab File ID: 3M61120.D
Instrument ID: GCMS3M
Injection Date: 05/06/16
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	174615	37.1		Pass
68	Less than 2.0% of mass 69	971	0.21	(0.43) [a]	Pass
69	Mass 69 relative abundance	226769	48.2		Pass
70	Less than 2.0% of mass 69	434	0.09	(0.19) [a]	Pass
127	40.0 - 60.0% of mass 198	245269	52.2		Pass
197	Less than 1.0% of mass 198	1647	0.35		Pass
198	Base peak, 100% relative abundance	470251	100.0		Pass
199	5.0 - 9.0% of mass 198	32030	6.81		Pass
275	10.0 - 30.0% of mass 198	111349	23.7		Pass
365	1.0 - 100.0% of mass 198	13182	2.80		Pass
441	Present, but less than mass 443	57951	12.3	(82.8) [b]	Pass
442	40.0 - 100.0% of mass 198	356808	75.9		Pass
443	17.0 - 23.0% of mass 442	69960	14.9	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2874-CC2855	3M61121.D	05/06/16	09:29	00:17	Continuing cal 1
OP93597A-MB1	3M61122.D	05/06/16	10:06	00:54	Method Blank
OP93597A-BS12	3M61123.D	05/06/16	10:38	01:26	Blank Spike
ZZZZZZ	3M61125.D	05/06/16	11:10	01:58	(unrelated sample)
JC19423-1	3M61124.D	05/06/16	11:42	02:30	MW-20S (7-8)
OP93662A-MB1	3M61126.D	05/06/16	12:15	03:03	Method Blank
OP93662A-BS12	3M61127.D	05/06/16	12:47	03:35	Blank Spike
ZZZZZZ	3M61128.D	05/06/16	13:19	04:07	(unrelated sample)
ZZZZZZ	3M61129.D	05/06/16	13:51	04:39	(unrelated sample)
ZZZZZZ	3M61130.D	05/06/16	14:24	05:12	(unrelated sample)
ZZZZZZ	3M61145.D	05/06/16	15:28	06:16	(unrelated sample)
OP93677A-MB1	3M61146.D	05/06/16	16:00	06:48	Method Blank
OP93677A-BS12	3M61144A.D	05/06/16	16:33	07:21	Blank Spike
JC19639-1	3M61131.D	05/06/16	17:05	07:53	(used for QC only; not part of job JC19423)
ZZZZZZ	3M61132.D	05/06/16	17:37	08:25	(unrelated sample)
OP93662A-MS	3M61138.D	05/06/16	18:42	09:30	Matrix Spike
OP93662A-MSD	3M61139.D	05/06/16	19:14	10:02	Matrix Spike Duplicate
ZZZZZZ	3M61140.D	05/06/16	19:46	10:34	(unrelated sample)
ZZZZZZ	3M61142.D	05/06/16	20:51	11:39	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E5P1382-DFTPP
Lab File ID: 5P27318.D
Instrument ID: GCMS5P
Injection Date: 04/11/16
Injection Time: 10:14

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	90825	36.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	99778	39.6		Pass
70	Less than 2.0% of mass 69	629	0.25	(0.63) [a]	Pass
127	40.0 - 60.0% of mass 198	135978	54.0		Pass
197	Less than 1.0% of mass 198	1902	0.76		Pass
198	Base peak, 100% relative abundance	251882	100.0		Pass
199	5.0 - 9.0% of mass 198	16968	6.74		Pass
275	10.0 - 30.0% of mass 198	63920	25.4		Pass
365	1.0 - 100.0% of mass 198	6782	2.69		Pass
441	Present, but less than mass 443	23750	9.43	(75.5) [b]	Pass
442	40.0 - 100.0% of mass 198	161853	64.3		Pass
443	17.0 - 23.0% of mass 442	31445	12.5	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E5P1382-IC1382	5P27319.D	04/11/16	10:29	00:15	Initial cal 100
E5P1382-IC1382	5P27320.D	04/11/16	11:06	00:52	Initial cal 80
E5P1382-ICC1382	5P27321.D	04/11/16	11:32	01:18	Initial cal 50
E5P1382-IC1382	5P27322.D	04/11/16	11:59	01:45	Initial cal 25
E5P1382-IC1382	5P27323.D	04/11/16	12:25	02:11	Initial cal 10
E5P1382-IC1382	5P27324.D	04/11/16	12:52	02:38	Initial cal 5
E5P1382-IC1382	5P27325.D	04/11/16	13:19	03:05	Initial cal 2
E5P1382-IC1382	5P27326.D	04/11/16	13:46	03:32	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E5P1383-DFTPP
Lab File ID: 5P27327.D
Instrument ID: GCMS5P
Injection Date: 04/11/16
Injection Time: 14:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	57180	31.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	62947	34.4		Pass
70	Less than 2.0% of mass 69	374	0.20	(0.59) [a]	Pass
127	40.0 - 60.0% of mass 198	87330	47.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	182736	100.0		Pass
199	5.0 - 9.0% of mass 198	12655	6.93		Pass
275	10.0 - 30.0% of mass 198	52696	28.8		Pass
365	1.0 - 100.0% of mass 198	5590	3.06		Pass
441	Present, but less than mass 443	22821	12.5	(76.7) [b]	Pass
442	40.0 - 100.0% of mass 198	152749	83.6		Pass
443	17.0 - 23.0% of mass 442	29758	16.3	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E5P1383-IC1383	5P27328.D	04/11/16	14:57	00:12	Initial cal 100
E5P1383-IC1383	5P27329.D	04/11/16	15:24	00:39	Initial cal 80
E5P1383-ICC1383	5P27330.D	04/11/16	15:50	01:05	Initial cal 50
E5P1383-IC1383	5P27331.D	04/11/16	16:17	01:32	Initial cal 25
E5P1383-IC1383	5P27332.D	04/11/16	16:44	01:59	Initial cal 10
E5P1383-IC1383	5P27333.D	04/11/16	17:11	02:26	Initial cal 5
E5P1383-IC1383	5P27334.D	04/11/16	17:38	02:53	Initial cal 2
E5P1383-IC1383	5P27335.D	04/11/16	18:05	03:20	Initial cal 1
E5P1383-ICV1382	5P27336.D	04/11/16	18:32	03:47	Initial cal verification 50
E5P1383-ICV1382	5P27337.D	04/11/16	18:59	04:14	Initial cal verification 50
E5P1383-ICV1383	5P27337A.D	04/11/16	18:59	04:14	Initial cal verification 50
E5P1383-ICV1382	5P27338.D	04/11/16	19:26	04:41	Initial cal verification 50
E5P1383-ICV1383	5P27338A.D	04/11/16	19:26	04:41	Initial cal verification 50
E5P1383-ICV1382	5P27339.D	04/11/16	19:52	05:07	Initial cal verification 50
E5P1383-ICV1382	5P27340.D	04/11/16	20:20	05:35	Initial cal verification 50
E5P1383-ICV1383	5P27341A.D	04/11/16	20:47	06:02	Initial cal verification 50
E5P1383-ICV1382	5P27341.D	04/11/16	20:47	06:02	Initial cal verification 50
E5P1383-ICV1383	5P27342.D	04/11/16	21:15	06:30	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E5P1414-DFTPP
Lab File ID: 5P27875.D
Instrument ID: GCMS5P
Injection Date: 05/02/16
Injection Time: 10:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	305835	52.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	225587	38.7		Pass
70	Less than 2.0% of mass 69	1570	0.27	(0.70) [a]	Pass
127	40.0 - 60.0% of mass 198	299746	51.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	582976	100.0		Pass
199	5.0 - 9.0% of mass 198	39557	6.79		Pass
275	10.0 - 30.0% of mass 198	149538	25.7		Pass
365	1.0 - 100.0% of mass 198	18360	3.15		Pass
441	Present, but less than mass 443	93053	16.0	(95.6) [b]	Pass
442	40.0 - 100.0% of mass 198	530453	91.0		Pass
443	17.0 - 23.0% of mass 442	97333	16.7	(18.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E5P1414-CC1382	5P27876.D	05/02/16	10:41	00:17	Continuing cal 50
E5P1414-CC1383	5P27877.D	05/02/16	11:24	01:00	Continuing cal 50
OP93534-MB1	5P27879.D	05/02/16	12:16	01:52	Method Blank
OP93534-BS1	5P27880.D	05/02/16	12:43	02:19	Blank Spike
ZZZZZZ	5P27881.D	05/02/16	13:09	02:45	(unrelated sample)
OP93403-MB1	5P27882.D	05/02/16	13:35	03:11	Method Blank
ZZZZZZ	5P27883.D	05/02/16	14:01	03:37	(unrelated sample)
ZZZZZZ	5P27884.D	05/02/16	14:27	04:03	(unrelated sample)
ZZZZZZ	5P27885.D	05/02/16	14:54	04:30	(unrelated sample)
ZZZZZZ	5P27886.D	05/02/16	15:20	04:56	(unrelated sample)
ZZZZZZ	5P27887.D	05/02/16	15:47	05:23	(unrelated sample)
ZZZZZZ	5P27888.D	05/02/16	16:13	05:49	(unrelated sample)
ZZZZZZ	5P27889.D	05/02/16	16:39	06:15	(unrelated sample)
ZZZZZZ	5P27893.D	05/02/16	18:25	08:01	(unrelated sample)
ZZZZZZ	5P27894.D	05/02/16	18:52	08:28	(unrelated sample)
OP93534-MS	5P27895.D	05/02/16	19:18	08:54	Matrix Spike
OP93534-MSD	5P27896.D	05/02/16	19:45	09:21	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E5P1416-DFTPP
Lab File ID: 5P27901.D
Instrument ID: GCMS5P
Injection Date: 05/03/16
Injection Time: 08:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	327868	52.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	248306	39.5		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	345885	55.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	628842	100.0		Pass
199	5.0 - 9.0% of mass 198	42331	6.73		Pass
275	10.0 - 30.0% of mass 198	186237	29.6		Pass
365	1.0 - 100.0% of mass 198	17211	2.74		Pass
441	Present, but less than mass 443	106200	16.9	(87.6) [b]	Pass
442	40.0 - 100.0% of mass 198	583338	92.8		Pass
443	17.0 - 23.0% of mass 442	121253	19.3	(20.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E5P1416-CC1382	5P27902.D	05/03/16	08:39	00:12	Continuing cal 25
E5P1416-CC1383	5P27903.D	05/03/16	09:05	00:38	Continuing cal 25
OP93478-MB1	5P27904.D	05/03/16	09:33	01:06	Method Blank
OP93478-BS1	5P27905.D	05/03/16	10:00	01:33	Blank Spike
JC19423-2	5P27906.D	05/03/16	10:27	02:00	RA18-GWD
ZZZZZZ	5P27907.D	05/03/16	10:54	02:27	(unrelated sample)
ZZZZZZ	5P27908.D	05/03/16	11:21	02:54	(unrelated sample)
ZZZZZZ	5P27909.D	05/03/16	11:47	03:20	(unrelated sample)
ZZZZZZ	5P27910.D	05/03/16	12:14	03:47	(unrelated sample)
ZZZZZZ	5P27911.D	05/03/16	12:40	04:13	(unrelated sample)
ZZZZZZ	5P27913.D	05/03/16	13:33	05:06	(unrelated sample)
ZZZZZZ	5P27914.D	05/03/16	13:59	05:32	(unrelated sample)
ZZZZZZ	5P27915.D	05/03/16	14:26	05:59	(unrelated sample)
JC18964-19	5P27916.D	05/03/16	14:52	06:25	(used for QC only; not part of job JC19423)
ZZZZZZ	5P27927A.D	05/03/16	16:12	07:45	(unrelated sample)
ZZZZZZ	5P27925.D	05/03/16	17:21	08:54	(unrelated sample)
ZZZZZZ	5P27917.D	05/03/16	17:47	09:20	(unrelated sample)
ZZZZZZ	5P27918.D	05/03/16	18:14	09:47	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6563-DFTPP
Lab File ID: F156050.D
Instrument ID: GCMSF
Injection Date: 04/04/16
Injection Time: 18:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	108584	30.9		Pass
68	Less than 2.0% of mass 69	596	0.17	(0.43) [a]	Pass
69	Mass 69 relative abundance	140032	39.9		Pass
70	Less than 2.0% of mass 69	642	0.18	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	175460	50.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	351082	100.0		Pass
199	5.0 - 9.0% of mass 198	23024	6.56		Pass
275	10.0 - 30.0% of mass 198	62466	17.8		Pass
365	1.0 - 100.0% of mass 198	5730	1.63		Pass
441	Present, but less than mass 443	29498	8.40	(76.5) [b]	Pass
442	40.0 - 100.0% of mass 198	194704	55.5		Pass
443	17.0 - 23.0% of mass 442	38575	11.0	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EF6563-IC6563	F156051.D	04/04/16	19:09	00:15	Initial cal 100
EF6563-IC6563	F156052.D	04/04/16	19:38	00:44	Initial cal 80
EF6563-ICC6563	F156053.D	04/04/16	20:07	01:13	Initial cal 50
EF6563-IC6563	F156054.D	04/04/16	20:37	01:43	Initial cal 25
EF6563-IC6563	F156055.D	04/04/16	21:06	02:12	Initial cal 10
EF6563-IC6563	F156056.D	04/04/16	21:35	02:41	Initial cal 5
EF6563-IC6563	F156057.D	04/04/16	22:04	03:10	Initial cal 2
EF6563-IC6563	F156058.D	04/04/16	22:33	03:39	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6564-DFTPP
Lab File ID: F156059.D
Instrument ID: GCMSF
Injection Date: 04/04/16
Injection Time: 23:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	115179	32.1		Pass
68	Less than 2.0% of mass 69	157	0.04	(0.10) [a]	Pass
69	Mass 69 relative abundance	151437	42.2		Pass
70	Less than 2.0% of mass 69	785	0.22	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	186202	51.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	358677	100.0		Pass
199	5.0 - 9.0% of mass 198	23181	6.46		Pass
275	10.0 - 30.0% of mass 198	63472	17.7		Pass
365	1.0 - 100.0% of mass 198	5413	1.51		Pass
441	Present, but less than mass 443	27575	7.69	(79.8) [b]	Pass
442	40.0 - 100.0% of mass 198	177434	49.5		Pass
443	17.0 - 23.0% of mass 442	34561	9.64	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EF6564-IC6564	F156060.D	04/04/16	23:27	00:21	Initial cal 100
EF6564-IC6564	F156061.D	04/04/16	23:56	00:50	Initial cal 80
EF6564-ICC6564	F156062.D	04/05/16	00:25	01:19	Initial cal 50
EF6564-IC6564	F156063.D	04/05/16	00:53	01:47	Initial cal 25
EF6564-IC6564	F156064.D	04/05/16	01:22	02:16	Initial cal 10
EF6564-IC6564	F156065.D	04/05/16	01:51	02:45	Initial cal 5
EF6564-IC6564	F156066.D	04/05/16	02:19	03:13	Initial cal 2
EF6564-IC6564	F156067.D	04/05/16	02:48	03:42	Initial cal 1
EF6564-ICV6563	F156069.D	04/05/16	03:46	04:40	Initial cal verification 50
EF6564-ICV6563	F156070.D	04/05/16	04:15	05:09	Initial cal verification 50
EF6564-ICV6563	F156071.D	04/05/16	04:44	05:38	Initial cal verification 50
EF6564-ICV6564	F156071A.D	04/05/16	04:44	05:38	Initial cal verification 50
EF6564-ICV6563	F156072.D	04/05/16	05:13	06:07	Initial cal verification 50
EF6564-ICV6564	F156072A.D	04/05/16	05:13	06:07	Initial cal verification 50
EF6564-ICV6563	F156073.D	04/05/16	05:42	06:36	Initial cal verification 50
EF6564-ICV6564	F156073A.D	04/05/16	05:42	06:36	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6566-DFTPP
Lab File ID: F156079.D
Instrument ID: GCMSF
Injection Date: 04/05/16
Injection Time: 13:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	118168	38.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	154947	50.1		Pass
70	Less than 2.0% of mass 69	884	0.29	(0.57) [a]	Pass
127	40.0 - 60.0% of mass 198	166781	54.0		Pass
197	Less than 1.0% of mass 198	1052	0.34		Pass
198	Base peak, 100% relative abundance	308970	100.0		Pass
199	5.0 - 9.0% of mass 198	20614	6.67		Pass
275	10.0 - 30.0% of mass 198	57501	18.6		Pass
365	1.0 - 100.0% of mass 198	5929	1.92		Pass
441	Present, but less than mass 443	28422	9.20	(76.3) [b]	Pass
442	40.0 - 100.0% of mass 198	184536	59.7		Pass
443	17.0 - 23.0% of mass 442	37228	12.0	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EF6566-IC6566	F156080.D	04/05/16	14:12	00:14	Initial cal 100
EF6566-IC6566	F156081.D	04/05/16	14:41	00:43	Initial cal 80
EF6566-ICC6566	F156082.D	04/05/16	15:11	01:13	Initial cal 50
EF6566-IC6566	F156083.D	04/05/16	15:40	01:42	Initial cal 25
EF6566-IC6566	F156084.D	04/05/16	16:08	02:10	Initial cal 10
EF6566-IC6566	F156085.D	04/05/16	16:37	02:39	Initial cal 5
EF6566-IC6566	F156086.D	04/05/16	17:06	03:08	Initial cal 2
EF6566-IC6566	F156087.D	04/05/16	17:35	03:37	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6567-DFTPP
Lab File ID: F156088.D
Instrument ID: GCMSF
Injection Date: 04/05/16
Injection Time: 18:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	102858	36.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	139965	49.1		Pass
70	Less than 2.0% of mass 69	764	0.27	(0.55) [a]	Pass
127	40.0 - 60.0% of mass 198	155093	54.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	284778	100.0		Pass
199	5.0 - 9.0% of mass 198	18151	6.37		Pass
275	10.0 - 30.0% of mass 198	55232	19.4		Pass
365	1.0 - 100.0% of mass 198	5389	1.89		Pass
441	Present, but less than mass 443	28740	10.1	(74.0) [b]	Pass
442	40.0 - 100.0% of mass 198	192210	67.5		Pass
443	17.0 - 23.0% of mass 442	38818	13.6	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EF6567-IC6567	F156089.D	04/05/16	18:25	00:25	Initial cal 100
EF6567-IC6567	F156090.D	04/05/16	18:54	00:54	Initial cal 80
EF6567-ICC6567	F156091.D	04/05/16	19:23	01:23	Initial cal 50
EF6567-IC6567	F156092.D	04/05/16	19:51	01:51	Initial cal 25
EF6567-IC6567	F156093.D	04/05/16	20:20	02:20	Initial cal 10
EF6567-IC6567	F156094.D	04/05/16	20:49	02:49	Initial cal 5
EF6567-IC6567	F156095.D	04/05/16	21:18	03:18	Initial cal 2
EF6567-IC6567	F156096.D	04/05/16	21:47	03:47	Initial cal 1
EF6567-ICV6564	F156097.D	04/05/16	22:16	04:16	Initial cal verification 50
EF6567-ICV6567	F156098.D	04/05/16	22:45	04:45	Initial cal verification 50
EF6567-ICV6567	F156099.D	04/05/16	23:14	05:14	Initial cal verification 50
EF6567-ICV6567	F156100.D	04/05/16	23:43	05:43	Initial cal verification 50
EF6567-ICV6567	F156101.D	04/06/16	00:12	06:12	Initial cal verification 50
EF6567-ICV6566	F156102.D	04/06/16	00:41	06:41	Initial cal verification 50
EF6567-ICV6566	F156104.D	04/06/16	01:39	07:39	Initial cal verification 50
EF6567-ICV6566	F156105.D	04/06/16	02:08	08:08	Initial cal verification 50
EF6567-ICV6566	F156106.D	04/06/16	02:38	08:38	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6603-DFTPP
Lab File ID: F156827.D
Instrument ID: GCMSF
Injection Date: 05/05/16
Injection Time: 10:10

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	185368	41.4		Pass
68	Less than 2.0% of mass 69	2493	0.56	(0.96) [a]	Pass
69	Mass 69 relative abundance	259942	58.1		Pass
70	Less than 2.0% of mass 69	1788	0.40	(0.69) [a]	Pass
127	40.0 - 60.0% of mass 198	261120	58.3		Pass
197	Less than 1.0% of mass 198	797	0.18		Pass
198	Base peak, 100% relative abundance	447765	100.0		Pass
199	5.0 - 9.0% of mass 198	31758	7.09		Pass
275	10.0 - 30.0% of mass 198	99317	22.2		Pass
365	1.0 - 100.0% of mass 198	9781	2.18		Pass
441	Present, but less than mass 443	52374	11.7	(79.8) [b]	Pass
442	40.0 - 100.0% of mass 198	345733	77.2		Pass
443	17.0 - 23.0% of mass 442	65664	14.7	(19.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EF6603-CC6563	F156828.D	05/05/16	10:23	00:13	Continuing cal 50
EF6603-CC6564	F156829.D	05/05/16	10:52	00:42	Continuing cal 50
EF6603-CC6566	F156831.D	05/05/16	12:01	01:51	Continuing cal 50
OP93597-MB1	F156832.D	05/05/16	12:35	02:25	Method Blank
ZZZZZZ	F156834.D	05/05/16	13:33	03:23	(unrelated sample)
OP93631-MB1	F156842.D	05/05/16	17:26	07:16	Method Blank
OP93631-BS1	F156843.D	05/05/16	17:54	07:44	Blank Spike
OP93631-BS13	F156844.D	05/05/16	18:24	08:14	Blank Spike
JC19535-1	F156845.D	05/05/16	18:53	08:43	(used for QC only; not part of job JC19423)
ZZZZZZ	F156846.D	05/05/16	19:22	09:12	(unrelated sample)
ZZZZZZ	F156847.D	05/05/16	19:51	09:41	(unrelated sample)
ZZZZZZ	F156849.D	05/05/16	20:49	10:39	(unrelated sample)
ZZZZZZ	F156850.D	05/05/16	21:18	11:08	(unrelated sample)
ZZZZZZ	F156851.D	05/05/16	21:47	11:37	(unrelated sample)
ZZZZZZ	F156852.D	05/05/16	22:16	12:06	(unrelated sample)
OP93631-MS	F156853.D	05/05/16	22:45	12:35	Matrix Spike
OP93631-MSD	F156854.D	05/05/16	23:14	13:04	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EZ5485-DFTPP
Lab File ID: Z109740.D
Instrument ID: GCMSZ
Injection Date: 04/13/16
Injection Time: 21:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	64844	35.0		Pass
68	Less than 2.0% of mass 69	1086	0.59	(1.49) [a]	Pass
69	Mass 69 relative abundance	72648	39.2		Pass
70	Less than 2.0% of mass 69	687	0.37	(0.95) [a]	Pass
127	40.0 - 60.0% of mass 198	96690	52.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	185434	100.0		Pass
199	5.0 - 9.0% of mass 198	15348	8.28		Pass
275	10.0 - 30.0% of mass 198	49861	26.9		Pass
365	1.0 - 100.0% of mass 198	4651	2.51		Pass
441	Present, but less than mass 443	8077	4.36	(21.7) [b]	Pass
442	40.0 - 100.0% of mass 198	179106	96.6		Pass
443	17.0 - 23.0% of mass 442	37293	20.1	(20.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EZ5485-IC5485	Z109741.D	04/13/16	21:35	00:15	Initial cal 2
EZ5485-IC5485	Z109742.D	04/13/16	22:06	00:46	Initial cal 100
EZ5485-IC5485	Z109743.D	04/13/16	22:38	01:18	Initial cal 80
EZ5485-IC5485	Z109744.D	04/13/16	23:09	01:49	Initial cal 25
EZ5485-IC5485	Z109745.D	04/13/16	23:41	02:21	Initial cal 10
EZ5485-IC5485	Z109746.D	04/14/16	00:12	02:52	Initial cal 5
EZ5485-IC5485	Z109747.D	04/14/16	00:44	03:24	Initial cal 1
EZ5485-ICC5485	Z109748.D	04/14/16	01:15	03:55	Initial cal 50

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EZ5486-DFTPP
Lab File ID: Z109749.D
Instrument ID: GCMSZ
Injection Date: 04/14/16
Injection Time: 01:39

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	54978	36.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	55795	36.6		Pass
70	Less than 2.0% of mass 69	212	0.14	(0.38) [a]	Pass
127	40.0 - 60.0% of mass 198	78117	51.3		Pass
197	Less than 1.0% of mass 198	1351	0.89		Pass
198	Base peak, 100% relative abundance	152306	100.0		Pass
199	5.0 - 9.0% of mass 198	11277	7.40		Pass
275	10.0 - 30.0% of mass 198	38480	25.3		Pass
365	1.0 - 100.0% of mass 198	4988	3.27		Pass
441	Present, but less than mass 443	25892	17.0	(98.6) [b]	Pass
442	40.0 - 100.0% of mass 198	136274	89.5		Pass
443	17.0 - 23.0% of mass 442	26264	17.2	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EZ5486-IC5486	Z109750.D	04/14/16	01:54	00:15	Initial cal 100
EZ5486-IC5486	Z109751.D	04/14/16	02:25	00:46	Initial cal 80
EZ5486-IC5486	Z109752.D	04/14/16	02:56	01:17	Initial cal 25
EZ5486-IC5486	Z109753.D	04/14/16	03:27	01:48	Initial cal 10
EZ5486-IC5486	Z109754.D	04/14/16	03:58	02:19	Initial cal 5
EZ5486-IC5486	Z109755.D	04/14/16	04:29	02:50	Initial cal 2
EZ5486-IC5486	Z109756.D	04/14/16	05:00	03:21	Initial cal 1
EZ5486-ICC5486	Z109757.D	04/14/16	05:32	03:53	Initial cal 50
EZ5486-ICV5485	Z109758.D	04/14/16	07:59	06:20	Initial cal verification 50
EZ5486-ICV5485	Z109759.D	04/14/16	08:30	06:51	Initial cal verification 50
EZ5486-ICV5485	Z109760.D	04/14/16	09:01	07:22	Initial cal verification 50
EZ5486-ICV5486	Z109761A.D	04/14/16	09:32	07:53	Initial cal verification 50
EZ5486-ICV5485	Z109761.D	04/14/16	09:32	07:53	Initial cal verification 50
EZ5486-ICV5486	Z109762A.D	04/14/16	10:03	08:24	Initial cal verification 50
EZ5486-ICV5485	Z109762.D	04/14/16	10:03	08:24	Initial cal verification 50
EZ5486-ICV5486	Z109763.D	04/14/16	10:35	08:56	Initial cal verification 50
EZ5486-ICV5485	Z109764.D	04/14/16	11:06	09:27	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EZ5515-DFTPP
Lab File ID: Z110382.D
Instrument ID: GCMSZ
Injection Date: 05/05/16
Injection Time: 09:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	43008	38.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	53091	47.0		Pass
70	Less than 2.0% of mass 69	84	0.07	(0.16) [a]	Pass
127	40.0 - 60.0% of mass 198	64782	57.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	112957	100.0		Pass
199	5.0 - 9.0% of mass 198	9368	8.29		Pass
275	10.0 - 30.0% of mass 198	33152	29.3		Pass
365	1.0 - 100.0% of mass 198	4890	4.33		Pass
441	Present, but less than mass 443	18318	16.2	(93.8) [b]	Pass
442	40.0 - 100.0% of mass 198	92216	81.6		Pass
443	17.0 - 23.0% of mass 442	19535	17.3	(21.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EZ5515-CC5485	Z110383.D	05/05/16	09:50	00:17	Continuing cal 25
EZ5515-CC5486	Z110384.D	05/05/16	10:19	00:46	Continuing cal 25
OP93597-MB1	Z110386.D	05/05/16	11:18	01:45	Method Blank
ZZZZZZ	Z110387.D	05/05/16	11:47	02:14	(unrelated sample)
ZZZZZZ	Z110388.D	05/05/16	12:16	02:43	(unrelated sample)
ZZZZZZ	Z110389.D	05/05/16	12:45	03:12	(unrelated sample)
ZZZZZZ	Z110393.D	05/05/16	14:41	05:08	(unrelated sample)
ZZZZZZ	Z110394.D	05/05/16	15:40	06:07	(unrelated sample)
ZZZZZZ	Z110395.D	05/05/16	16:09	06:36	(unrelated sample)
ZZZZZZ	Z110396.D	05/05/16	16:38	07:05	(unrelated sample)
ZZZZZZ	Z110397.D	05/05/16	17:08	07:35	(unrelated sample)
ZZZZZZ	Z110398.D	05/05/16	17:37	08:04	(unrelated sample)
ZZZZZZ	Z110399.D	05/05/16	18:06	08:33	(unrelated sample)
ZZZZZZ	Z110400.D	05/05/16	18:35	09:02	(unrelated sample)
ZZZZZZ	Z110401.D	05/05/16	19:05	09:32	(unrelated sample)
ZZZZZZ	Z110402.D	05/05/16	19:34	10:01	(unrelated sample)
ZZZZZZ	Z110403.D	05/05/16	20:03	10:30	(unrelated sample)
ZZZZZZ	Z110404.D	05/05/16	20:32	10:59	(unrelated sample)
ZZZZZZ	Z110405.D	05/05/16	21:02	11:29	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3E3634-CC3623	**Injection Date:**	05/04/16
Lab File ID:	3E82880.D	**Injection Time:**	14:38
Instrument ID:	GCMS3E	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	161619	4.49	603674	5.55	348457	7.57	604078	9.73	675419	13.91	521043	16.02
Upper Limit [a]	323238	4.99	1207348	6.05	696914	8.07	1208156	10.23	1350838	14.41	1042086	16.52
Lower Limit [b]	80810	3.99	301837	5.05	174229	7.07	302039	9.23	337710	13.41	260522	15.52

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	231140	4.49	886460	5.55	528952	7.57	826579	9.73	664892	13.91	614164	16.02
ZZZZZZ	167640	4.49	655537	5.55	390202	7.57	609391	9.73	504968	13.91	460267	16.02
OP93548-MB1	169872	4.49	666882	5.55	408641	7.57	718196	9.73	717784	13.91	537767	16.02
OP93404-MB1	169327	4.49	673577	5.55	416739	7.57	754893	9.73	798187	13.91	578107	16.02
OP93534-MB1	180984	4.49	715705	5.55	447748	7.57	787444	9.73	843011	13.91	623574	16.02
ZZZZZZ	273591	4.49	1069106	5.55	650563	7.57	1108550	9.73	1194479	13.91	857077	16.02
ZZZZZZ	246538	4.49	931887	5.55	551257	7.57	905904	9.73	678103	13.91	639570	16.02
ZZZZZZ	235746	4.49	904940	5.54	539702	7.57	957792	9.73	698700	13.91	636557	16.02
ZZZZZZ	205431	4.49	796048	5.55	506257	7.57	885118	9.73	708850	13.91	621743	16.02
ZZZZZZ	202742	4.49	805684	5.55	500660	7.57	856167	9.73	666855	13.91	603268	16.02
ZZZZZZ	194954	4.49	755929	5.55	470505	7.57	842042	9.73	653288	13.91	586512	16.03
ZZZZZZ	237823	4.49	921480	5.55	562667	7.57	916399	9.73	714972	13.92	627194	16.03
JC19382-2	225050	4.49	852197	5.55	537518	7.57	938117	9.73	769536	13.91	681078	16.03
ZZZZZZ	230163	4.49	874817	5.55	539533	7.57	932032	9.73	855684	13.91	710042	16.03
ZZZZZZ	233537	4.49	911711	5.55	563808	7.57	962675	9.73	852601	13.91	693909	16.02
OP93520-MSD	134983	4.49	511371	5.55	283771	7.57	441021	9.73	331293*	13.93	249352*	16.04
ZZZZZZ	203000	4.49	780226	5.55	482897	7.57	841704	9.73	643187	13.92	594173	16.03
ZZZZZZ	262588	4.49	993120	5.55	560812	7.57	914765	9.73	714589	13.92	667850	16.04
ZZZZZZ	207146	4.49	781964	5.55	442800	7.58	641501	9.74	508282	13.93	467912	16.04
ZZZZZZ	233495	4.50	856291	5.56	497493	7.58	754217	9.74	570421	13.93	471608	16.06
ZZZZZZ	244626	4.50	878748	5.56	433383	7.58	602745	9.75	446006	13.94	358605	16.07

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(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.

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3E3643-CC3623	**Injection Date:**	05/11/16
Lab File ID:	3E83088.D	**Injection Time:**	09:23
Instrument ID:	GCMS3E	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	176742	4.42	676079	5.47	427147	7.46	743104	9.62	738515	13.79	542841	15.90
Upper Limit [a]	353484	4.92	1352158	5.97	854294	7.96	1486208	10.12	1477030	14.29	1085682	16.40
Lower Limit [b]	88371	3.92	338040	4.97	213574	6.96	371552	9.12	369258	13.29	271421	15.40

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP93597-MB1	186997	4.42	714079	5.46	452749	7.46	794381	9.61	818947	13.78	632706	15.89
OP93597-BS1	178864	4.42	634519	5.47	396315	7.46	682472	9.62	736871	13.79	547907	15.90
ZZZZZZ	109294	4.43	440745	5.47	304995	7.46	530460	9.61	517653	13.78	402041	15.89
JC19414-1	161999	4.43	637881	5.47	403856	7.46	678362	9.61	610619	13.79	550165	15.89
OP93597-MS	156087	4.42	569579	5.47	351273	7.46	603382	9.61	666311	13.79	513496	15.89
OP93597-MSD	182834	4.42	646695	5.47	401159	7.46	689102	9.61	737063	13.79	537158	15.89
ZZZZZZ	124620	4.42	442165	5.46	243351	7.46	319008*	9.62	291314*	13.79	302866	15.89
ZZZZZZ	125059	4.42	474201	5.46	252213	7.46	342024*	9.64	270105*	13.80	273978	15.90
ZZZZZZ	120637	4.42	447410	5.46	261140	7.46	348240*	9.62	326248*	13.79	329264	15.89
ZZZZZZ	133385	4.42	499329	5.46	276989	7.46	330827*	9.62	300907*	13.79	309694	15.89
ZZZZZZ	137973	4.42	459807	5.47	208992*	7.47	307089*	9.62	313759*	13.79	319721	15.90
ZZZZZZ	134730	4.42	493399	5.46	309897	7.46	522405	9.61	397268	13.78	352770	15.89
ZZZZZZ	143838	4.42	489198	5.47	199770*	7.48	257969*	9.63	253109*	13.79	262805*	15.90
ZZZZZZ	129478	4.43	392959	5.47	183783*	7.48	253397*	9.63	255770*	13.79	257369*	15.90
JC19423-1	116299	4.42	437891	5.46	276650	7.46	460873	9.61	417946	13.78	300789	15.89
ZZZZZZ	123315	4.42	469698	5.46	292308	7.46	514736	9.61	523423	13.78	371687	15.89
ZZZZZZ	143937	4.42	503786	5.46	297667	7.46	543575	9.61	526389	13.78	390038	15.89
ZZZZZZ	152151	4.42	541016	5.46	325128	7.46	498783	9.61	381811	13.78	343864	15.89

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(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.

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2868-CC2855	**Injection Date:**	05/02/16
Lab File ID:	3M60993.D	**Injection Time:**	12:57
Instrument ID:	GCMS3M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	364879	10.49	526575	13.49	877341	17.70	709168	22.29
Upper Limit [a]	729758	10.99	1053150	13.99	1754682	18.20	1418336	22.79
Lower Limit [b]	182440	9.99	263288	12.99	438671	17.20	354584	21.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP93534A-MB1	382292	10.49	522585	13.49	781237	17.70	648546	22.29
OP93534A-BS12	355767	10.49	464494	13.49	720783	17.70	562868	22.29
ZZZZZZ	417167	10.49	547169	13.49	879219	17.70	695923	22.30
JC19382-1	417843	10.49	551527	13.49	834919	17.70	640315	22.30
ZZZZZZ	396194	10.49	533420	13.49	827309	17.70	653517	22.30
ZZZZZZ	433708	10.49	598067	13.49	907329	17.70	740820	22.30
ZZZZZZ	402072	10.49	548904	13.49	830502	17.70	678190	22.30
ZZZZZZ	425054	10.49	535989	13.49	857839	17.70	682976	22.30
ZZZZZZ	458060	10.49	592687	13.49	934323	17.70	739535	22.30
ZZZZZZ	426111	10.49	536135	13.49	871703	17.70	686376	22.30
ZZZZZZ	417803	10.49	540427	13.49	867900	17.70	676961	22.30
ZZZZZZ	462623	10.49	597063	13.49	947983	17.70	740642	22.30
ZZZZZZ	425492	10.49	561705	13.49	899015	17.70	718785	22.30
ZZZZZZ	381251	10.49	504375	13.49	809127	17.70	621353	22.30
ZZZZZZ	415635	10.49	562836	13.49	882301	17.70	691357	22.30
ZZZZZZ	379542	10.49	495200	13.49	811906	17.70	628898	22.30
ZZZZZZ	367998	10.49	494871	13.49	771880	17.70	629637	22.30
ZZZZZZ	392984	10.49	502974	13.49	800816	17.70	644155	22.30
JC19423-2	382307	10.49	498261	13.49	806658	17.70	622107	22.30
OP93534A-MS2	444919	10.49	580212	13.49	879854	17.70	674245	22.30
OP93534A-MSD2	421814	10.49	574598	13.49	861387	17.70	661514	22.30

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(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.

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2872-CC2855	**Injection Date:**	05/05/16
Lab File ID:	3M61091.D	**Injection Time:**	12:08
Instrument ID:	GCMS3M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	274802	10.45	472051	13.45	786338	17.67	652793	22.27
Upper Limit [a]	549604	10.95	944102	13.95	1572676	18.17	1305586	22.77
Lower Limit [b]	137401	9.95	236026	12.95	393169	17.17	326397	21.77

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP93597A-MB1	287175	10.45	462651	13.45	723908	17.67	570713	22.27
ZZZZZZ	357271	10.47	507980	13.45	838427	17.67	651189	22.27
OP93597A-MS	305654	10.47	441284	13.45	747248	17.67	574919	22.27
OP93597A-MSD	347222	10.47	499183	13.45	819517	17.67	629953	22.27

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(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.

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2874-CC2855	**Injection Date:**	05/06/16
Lab File ID:	3M61121.D	**Injection Time:**	09:29
Instrument ID:	GCMS3M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	264557	10.43	412849	13.43	678083	17.64	581670	22.24
Upper Limit [a]	529114	10.93	825698	13.93	1356166	18.14	1163340	22.74
Lower Limit [b]	132279	9.93	206425	12.93	339042	17.14	290835	21.74

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP93597A-MB1	349329	10.43	491187	13.43	726780	17.64	578588	22.24
OP93597A-BS12	348036	10.43	480861	13.43	715171	17.64	603243	22.24
ZZZZZZ	328467	10.43	496929	13.43	794996	17.64	627066	22.24
JC19423-1	322020	10.43	446441	13.43	709643	17.64	568535	22.24
OP93662A-MB1	280185	10.43	394506	13.43	623165	17.64	533946	22.24
OP93662A-BS12	351170	10.43	572116	13.43	914781	17.64	750976	22.24
ZZZZZZ	298744	10.43	437898	13.43	698736	17.64	577858	22.24
ZZZZZZ	293936	10.43	431783	13.43	679768	17.64	556785	22.24
ZZZZZZ	310768	10.43	461406	13.43	705901	17.64	585493	22.24
ZZZZZZ	281382	10.43	392702	13.43	645630	17.64	532484	22.24
OP93677A-MB1	306061	10.43	421923	13.43	655154	17.64	557549	22.24
OP93677A-BS12	289388	10.43	394979	13.43	614996	17.64	517979	22.24
JC19639-1	358597	10.43	553929	13.43	939088	17.64	751711	22.24
ZZZZZZ	393048	10.43	581927	13.43	965070	17.64	778197	22.24
OP93662A-MS	415009	10.43	621115	13.43	1018135	17.64	806798	22.24
OP93662A-MSD	387740	10.43	569931	13.43	927885	17.64	744661	22.24
ZZZZZZ	325712	10.43	407213	13.43	686850	17.64	530026	22.24
ZZZZZZ	413677	10.43	543751	13.43	827604	17.64	585312	22.24

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(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.

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E5P1414-CC1382	**Injection Date:**	05/02/16
Lab File ID:	5P27876.D	**Injection Time:**	10:41
Instrument ID:	GCMS5P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	677124	5.10	2654973	6.57	1505064	8.67	2500244	10.50	2419099	14.26	2370766	16.32
Upper Limit [a]	1354248	5.60	5309946	7.07	3010128	9.17	5000488	11.00	4838198	14.76	4741532	16.82
Lower Limit [b]	338562	4.60	1327487	6.07	752532	8.17	1250122	10.00	1209550	13.76	1185383	15.82

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP93534-MB1	668118	5.10	2609070	6.56	1473168	8.67	2452352	10.49	2354797	14.25	2340984	16.31
OP93534-BS1	662411	5.10	2705328	6.56	1525120	8.67	2525812	10.49	2437341	14.26	2396289	16.31
ZZZZZZ	691402	5.10	2792312	6.56	1562439	8.67	2543951	10.49	2396260	14.25	2427212	16.31
OP93403-MB1	785586	5.10	3085043	6.56	1793610	8.67	2894926	10.49	2831452	14.25	2667716	16.31
ZZZZZZ	864288	5.10	3583162	6.56	2055416	8.67	3225314	10.49	3056023	14.25	2932805	16.31
ZZZZZZ	689627	5.10	2754752	6.56	1582521	8.67	2520840	10.49	2373987	14.25	2301423	16.31
ZZZZZZ	993560	5.10	3928943	6.56	2227082	8.67	3621026	10.49	3402312	14.26	3327689	16.32
ZZZZZZ	924173	5.10	3739291	6.56	2119929	8.67	3389687	10.49	3112592	14.26	3137932	16.32
ZZZZZZ	753062	5.10	2937743	6.56	1692670	8.67	2761784	10.49	2639906	14.25	2417818	16.31
ZZZZZZ	756396	5.10	3012610	6.56	1735320	8.67	2851335	10.49	2703889	14.26	2673478	16.31
ZZZZZZ	675935	5.10	2716760	6.56	1613388	8.67	2566155	10.49	2544701	14.26	2393039	16.32
ZZZZZZ	683236	5.10	2655267	6.56	1516721	8.67	2482766	10.49	2344564	14.25	2300691	16.31
ZZZZZZ	648087	5.10	2698928	6.56	1506353	8.67	2478068	10.49	2231349	14.25	2245749	16.31
OP93534-MS	760355	5.10	3062460	6.56	1791313	8.67	2943135	10.49	2748384	14.26	2623668	16.31
OP93534-MSD	740467	5.10	2971369	6.57	1771075	8.67	2840457	10.49	2688269	14.26	2550561	16.32

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(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.

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E5P1416-CC1382	**Injection Date:**	05/03/16
Lab File ID:	5P27902.D	**Injection Time:**	08:39
Instrument ID:	GCMS5P	**Method:**	SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	745526	5.29	3093488	6.76	1850267	8.87	2967916	10.71	2857587	14.51	2737860	16.58
Upper Limit [a]	1491052	5.79	6186976	7.26	3700534	9.37	5935832	11.21	5715174	15.01	5475720	17.08
Lower Limit [b]	372763	4.79	1546744	6.26	925134	8.37	1483958	10.21	1428794	14.01	1368930	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	IS 6 AREA	RT
OP93478-MB1	880317	5.29	3457375	6.76	1972896	8.87	3062354	10.70	2754188	14.50	2534017	16.58
OP93478-BS1	855803	5.29	3414781	6.77	1959693	8.87	3086795	10.71	2900912	14.51	2563817	16.58
JC19423-2	786733	5.29	3159965	6.76	1845429	8.87	3071730	10.70	2960975	14.50	2808773	16.58
ZZZZZZ	713684	5.29	2970643	6.76	1747513	8.87	2823034	10.70	2664510	14.50	2532176	16.58
ZZZZZZ	769102	5.29	2984033	6.76	1659420	8.87	2660152	10.70	2334388	14.50	2096982	16.57
ZZZZZZ	746559	5.29	2942618	6.76	1652087	8.87	2643246	10.70	2336478	14.50	2153442	16.57
ZZZZZZ	710812	5.29	2790632	6.76	1548356	8.87	2386624	10.70	2158571	14.50	2144922	16.58
ZZZZZZ	692233	5.29	2758133	6.76	1556143	8.87	2477919	10.70	2259401	14.50	2079911	16.57
ZZZZZZ	751558	5.29	2974379	6.76	1670704	8.87	2693926	10.70	2446095	14.50	2265705	16.57
ZZZZZZ	737041	5.29	2858013	6.76	1580846	8.87	2550270	10.70	2327552	14.50	2141028	16.57
ZZZZZZ	833661	5.29	3303820	6.76	1853972	8.87	2861926	10.70	2391481	14.50	2309186	16.58
JC18964-19	854914	5.29	3274204	6.76	1850676	8.87	2814855	10.70	2455694	14.50	2601281	16.58
ZZZZZZ	688997	5.29	2728936	6.77	1594184	8.87	2452884	10.71	2194488	14.51	2212717	16.58
ZZZZZZ	695138	5.29	2700137	6.76	1523798	8.87	2389084	10.71	2129924	14.51	2093035	16.58
ZZZZZZ	815244	5.30	2976908	6.78	1733640	8.88	2828411	10.71	2629549	14.54	2983000	16.78
ZZZZZZ	691320	5.30	2803708	6.78	1613611	8.88	2550888	10.72	2285761	14.55	2384658	16.81

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(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.

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6603-CC6563	**Injection Date:**	05/05/16
Lab File ID:	F156828.D	**Injection Time:**	10:23
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	755496	4.79	3060478	5.71	1791739	7.15	2832628	9.06	2634104	14.34	2423047	17.38
Upper Limit [a]	1510992	5.29	6120956	6.21	3583478	7.65	5665256	9.56	5268208	14.84	4846094	17.88
Lower Limit [b]	377748	4.29	1530239	5.21	895870	6.65	1416314	8.56	1317052	13.84	1211524	16.88

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP93597-MB1	715854	4.79	2897781	5.71	1616134	7.15	2481001	9.06	2078691	14.33	1887285	17.38
ZZZZZZ	687104	4.79	2737746	5.71	1586968	7.15	2478764	9.06	2092679	14.36	1911938	17.38
OP93631-MB1	540628	4.79	2213301	5.71	1291962	7.15	2098439	9.05	1865035	14.33	1685885	17.38
OP93631-BS1	612140	4.79	2780818	5.71	1389231	7.15	2230526	9.06	1967251	14.33	1758514	17.38
OP93631-BS13	610106	4.78	2467417	5.71	1433027	7.15	2286035	9.06	2046966	14.33	1911826	17.38
JC19535-1	622931	4.78	2560324	5.71	1558433	7.15	2349369	9.06	2148866	14.33	2027532	17.38
ZZZZZZ	627988	4.79	2551390	5.71	1464107	7.15	2342391	9.05	2154417	14.33	2004086	17.37
ZZZZZZ	612283	4.78	2504904	5.71	1442986	7.15	2254707	9.05	2064163	14.33	1951832	17.37
ZZZZZZ	591578	4.78	2403621	5.71	1395088	7.15	2210167	9.05	1991749	14.33	1856456	17.38
ZZZZZZ	607564	4.78	2531686	5.71	1526218	7.15	2458193	9.05	2203599	14.33	2031247	17.37
ZZZZZZ	588791	4.78	2388284	5.71	1435220	7.15	2255146	9.05	2088588	14.33	1898405	17.38
ZZZZZZ	579880	4.78	2329567	5.71	1360808	7.15	2126552	9.05	1961345	14.33	1817128	17.37
OP93631-MS	615218	4.79	2733019	5.71	1448360	7.15	2155677	9.06	1870399	14.33	1670883	17.38
OP93631-MSD	644760	4.79	2883774	5.71	1521791	7.15	2227651	9.06	1965695	14.34	1792665	17.38

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(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.

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EZ5515-CC5485	**Injection Date:**	05/05/16
Lab File ID:	Z110383.D	**Injection Time:**	09:50
Instrument ID:	GCMSZ	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	189324	4.18	698804	5.11	461447	6.38	736875	7.96	741015	12.87	791172	15.86
Upper Limit [a]	378648	4.68	1397608	5.61	922894	6.88	1473750	8.46	1482030	13.37	1582344	16.36
Lower Limit [b]	94662	3.68	349402	4.61	230724	5.88	368438	7.46	370508	12.37	395586	15.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP93597-MB1	232527	4.18	849476	5.10	520135	6.37	823997	7.96	738569	12.86	700342	15.85
ZZZZZZ	160732	4.18	644746	5.11	385477	6.37	630057	7.96	614610	12.86	616036	15.85
ZZZZZZ	168861	4.18	622467	5.11	368775	6.37	625456	7.96	603223	12.86	607189	15.85
ZZZZZZ	159755	4.18	627557	5.10	371926	6.37	624068	7.96	620332	12.86	622434	15.85
ZZZZZZ	199938	4.18	694112	5.10	413228	6.37	677550	7.96	633867	12.86	584470	15.84
ZZZZZZ	192561	4.18	651555	5.10	372171	6.37	584057	7.96	593104	12.86	618368	15.85
ZZZZZZ	204571	4.18	729642	5.10	404199	6.37	644874	7.96	577764	12.86	640259	15.85
ZZZZZZ	201536	4.18	726750	5.10	414466	6.37	644968	7.96	601927	12.87	676896	15.85
ZZZZZZ	182517	4.18	687568	5.11	392580	6.37	625226	7.96	573692	12.86	617099	15.85
ZZZZZZ	169086	4.20	706436	5.12	413191	6.37	641130	7.96	615280	12.86	636456	15.85
ZZZZZZ	177847	4.18	671930	5.10	375135	6.37	580732	7.96	553675	12.86	617985	15.85
ZZZZZZ	173278	4.18	640648	5.10	367775	6.37	572798	7.96	502698	12.86	561205	15.85
ZZZZZZ	189641	4.18	669313	5.11	380211	6.37	592187	7.96	563506	12.86	633566	15.85
ZZZZZZ	184702	4.18	635707	5.10	371707	6.37	588799	7.96	537955	12.86	588847	15.85
ZZZZZZ	180011	4.18	634314	5.10	375539	6.37	575439	7.96	509996	12.86	529295	15.85
ZZZZZZ	190297	4.18	663502	5.10	383568	6.37	606227	7.96	537533	12.86	613458	15.85
ZZZZZZ	178921	4.18	609132	5.10	352189	6.37	546541	7.96	524201	12.86	576556	15.86

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(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.

Semivolatile Surrogate Recovery Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC19423-2	5P27906.D	55	37	109	101	100	99
OP93534-BS1	5P27880.D	67	49	108	98	91	106
OP93534-MB1	5P27879.D	62	43	107	104	97	108
OP93534-MB1	3E82888.D	57	36	110	95	95	104
OP93534-MS	5P27895.D	87	78	113	99	95	79
OP93534-MSD	5P27896.D	87	76	117	101	93	77

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-88%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	39-149%
S4 = Nitrobenzene-d5	32-128%
S5 = 2-Fluorobiphenyl	35-119%
S6 = Terphenyl-d14	10-126%

Semivolatile Surrogate Recovery Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC19423-1	3E83105.D	66	65	72	79	78	93
OP93597-BS1	3E83092.D	79	73	98	87	93	95
OP93597-MB1	Z110386.D	78	82	93	112	95	105
OP93597-MB1	F156832.D	93	93	109	105	93	104
OP93597-MB1	3E83091.D	77	76	85	86	96	105
OP93597-MS	3E83095.D	56	54	71	65	70	69
OP93597-MSD	3E83096.D	52	50	65	60	65	65

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	30-106%
S2 = Phenol-d5	30-106%
S3 = 2,4,6-Tribromophenol	24-140%
S4 = Nitrobenzene-d5	26-122%
S5 = 2-Fluorobiphenyl	36-112%
S6 = Terphenyl-d14	36-132%

Semivolatile Surrogate Recovery Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC19423-2	3M61012.D	84	91	101
OP93534A-BS12	3M60995.D	82	89	114
OP93534A-MB1	3M60994.D	78	86	110
OP93534A-MS2	3M61013.D	71	78	90
OP93534A-MSD2	3M61014.D	93	90	92

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	24-125%
S2 = 2-Fluorobiphenyl	19-127%
S3 = Terphenyl-d14	10-119%

Semivolatile Surrogate Recovery Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D BY SIM **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC19423-1	3M61124.D	81	85	96
OP93597A-BS12	3M61123.D	91	96	115
OP93597A-MB1	3M61092.D	93	93	115
OP93597A-MB1	3M61122.D	92	94	116
OP93597A-MS	3M61097.D	80	95	99
OP93597A-MSD	3M61098.D	66	78	87

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	15-138%
S2 = 2-Fluorobiphenyl	12-148%
S3 = Terphenyl-d14	10-157%

Initial Calibration Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3621-ICC3621
Lab FileID: 3E82671.D

```
                          Response Factor Report  MS3E

  Method       : C:\msdchem\1\METHODS\M3E3621.M (RTE Integrator)
  Title        : Semi Volatile  GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:56:37 2016
  Last Update  : Thu Apr 28 10:56:37 2016
  Response via : Initial Calibration

  Calibration Files
  2   =3E82675.D  5   =3E82674.D  25  =3E82672.D  80  =3E82670.D
  100 =3E82669.D  50  =3E82671.D  1   =3E82676.D  10  =3E82673.D

   Compound         2     5     25    80    100   50    1     10    Avg %RSD
  ---------------------------------------------------------------------------
102)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
103) Benzaldehyde 1.189 1.194 1.075 0.797       1.013 1.227 1.094 1.084  13.62

104)     Acenaphthene-d10a     ----------------ISTD---------------------
105) 1,2,4,5-Tetr 0.509 0.535 0.473 0.487 0.487 0.482 0.518 0.470 0.495   4.65

106)     Phenanthrene-d10a     ----------------ISTD---------------------
107) Atrazine     0.106 0.110 0.100 0.100 0.097 0.101 0.104 0.097 0.102   4.23
108) o-Terphenyl  0.554 0.543 0.493 0.499 0.485 0.493 0.561 0.494 0.515   6.12
109) 1-Chloroocta 0.335 0.349 0.323 0.321 0.313 0.327 0.352 0.315 0.329   4.49

110) I   Chrysene-d12a         ----------------ISTD---------------------
111) benzidine    0.554 0.648 0.499 0.340       0.432 0.427 0.547 0.492  20.64

112) I   Naphthalene-d8a       ----------------ISTD---------------------
113) Hydroquinone       0.220 0.294 0.296 0.281 0.304       0.255 0.275  11.61

114)     Chrysene-d12b         ----------------ISTD---------------------
115) 2,3,7,8-TCDD                                                0.000# -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M3E3623.M         Thu Apr 28 11:03:23 2016   MS3E
```

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3621-ICV3621
Lab FileID: 3E82680A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3E3621\3E82680a.D         Vial: 13
Acq On    : 26 Apr 2016   6:22 pm                    Operator: ashleyn
Sample    : icv3621-50                               Inst    : MS3E
Misc      : op93161,e3e3621                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\M3E3620.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 09:55:50 2016
Last Update  : Wed Apr 27 09:55:50 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
104	Acenaphthene-d10a	1.000	1.000	0.0	109	0.00	7.64
105	1,2,4,5-Tetrachlorobenzen	0.495	0.494	0.2	112	0.00	6.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82671a.D M3E3620.M Wed Apr 27 10:32:25 2016 MS3E

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3621-ICV3621
Lab FileID: 3E82681A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3E3621\3E82681a.D         Vial: 14
Acq On    : 26 Apr 2016   6:48 pm                    Operator: ashleyn
Sample    : icv3621-50                               Inst    : MS3E
Misc      : op93161,e3e3621                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:56:37 2016
Last Update  : Thu Apr 28 10:56:37 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	107	0.00	4.54
103	Benzaldehyde	1.084	1.140	-5.2	121	0.00	4.22
106	Phenanthrene-d10a	1.000	1.000	0.0	91	0.00	9.81
107	Atrazine	0.102	0.100	2.0	91	0.00	9.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82671a.D M3E3623.M Thu Apr 28 11:08:16 2016 MS3E

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3621-ICV3621
Lab FileID: 3E82683.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3621\3E82683.D Vial: 16
Acq On : 26 Apr 2016 7:40 pm Operator: ashleyn
Sample : icv3621-50 Inst : MS3E
Misc : op93161,e3e3621 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3620.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 09:55:50 2016
Last Update : Wed Apr 27 09:55:50 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
112 I	Naphthalene-d8a	1.000	1.000	0.0	89	0.00	5.60
113 T	Hydroquinone	0.275	0.319	-16.0	93	0.00	6.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82671a.D M3E3620.M Wed Apr 27 10:09:13 2016 MS3E

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3622-ICV3621
Lab FileID: 3E82685A.D

Evaluate Continuing Calibration Report

```
  Data File : C:\msdchem\1\DATA\E3E3622\3E82685a.D         Vial: 2
  Acq On    : 27 Apr 2016  11:46 am                    Operator: ashleyn
  Sample    : icv3621-50                               Inst    : MS3E
  Misc      : op93161,e3e3622                          Multiplr: 1.00
  MS Integration Params: lscint.p

  Method       : C:\msdchem\1\METHODS\M3E3620.M (RTE Integrator)
  Title        : Semi Volatile  GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 12:17:28 2016
  Last Update  : Wed Apr 27 12:17:28 2016
  Response via : Multiple Level Calibration

  Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
  Max. RRF Dev :  30%     Max. Rel. Area : 200%

         Compound                   AvgRF   CCRF      %Dev Area%  Dev(min)R.T.
  ---------------------------------------------------------------------------
110 I   Chrysene-d12a               1.000   1.000      0.0   99   0.00   13.99
111 T   benzidine                   0.492   0.825    -67.7# 189   0.00   11.98
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range               SPCC's out = 0  CCC's out = 0
     3E82671a.D M3E3620.M        Wed Apr 27 12:23:24 2016   MS3E
```

Initial Calibration Summary

Job Number: JC19423 **Sample:** E3E3623-ICC3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82697.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS3E

Method : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:34:49 2016
Last Update : Thu Apr 28 10:34:49 2016
Response via : Initial Calibration

Calibration Files
2 =3E82702.D 5 =3E82701.D 25 =3E82699.D 80 =3E82698.D
100 =3E82696.D 50 =3E82697.D 1 =3E82703.D 10 =3E82700.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					----------ISTD----------					
2) 1,4-Dioxane	0.390	0.393	0.342	0.336	0.336	0.324	0.465	0.329	0.365	13.37
3) Pyridine	0.864	1.163	1.050	1.084	1.081	1.039		0.977	1.037	9.12
4) N-Nitrosodim	0.562	0.564	0.621	0.629	0.615	0.604		0.535	0.590	6.11
5) 2-Fluorophen	1.209	1.270	1.239	1.289	1.285	1.236	1.183	1.100	1.226	5.14
6) Indene	2.427	2.587	2.338	2.427	2.376	2.334	2.414	2.187	2.386	4.74
7) Cumene	3.623	3.536	3.383	3.566	3.538	3.407	3.717	3.149	3.490	5.01
8) Phenol-d5	1.609	1.600	1.573	1.748	1.764	1.619	1.420	1.431	1.595	7.88
9) Phenol	1.774	1.752	1.725	1.883	1.867	1.798	1.620	1.572	1.749	6.24
10) Aniline	2.018	2.085	2.047	2.106	2.083	2.147	1.975	1.786	2.031	5.54
11) bis(2-Chloro	1.297	1.222	1.166	1.190	1.168	1.147	1.320	1.085	1.199	6.50
12) 2-Chlorophen	1.519	1.534	1.436	1.467	1.465	1.421	1.462	1.291	1.449	5.13
13) Decane	1.549	1.541	1.505	1.568	1.565	1.518	1.638	1.390	1.534	4.62
14) 1,3-Dichloro	1.584	1.665	1.552	1.598	1.575	1.529	1.726	1.450	1.585	5.27
15) 1,4-Dichloro	1.774	1.790	1.565	1.608	1.600	1.565	1.911	1.494	1.663	8.63
16) Benzyl alcoh	0.883	0.903	0.889	0.960	0.949	0.901	0.814	0.769	0.884	7.24
17) 1,2-Dichloro	1.556	1.604	1.470	1.504	1.490	1.443	1.553	1.364	1.498	5.03
18) Acetophenone	2.052	2.101	1.957	2.023	1.926	1.951	2.101	1.764	1.984	5.62
19) 2-Methylphen	1.309	1.318	1.201	1.220	1.202	1.198	1.248	1.110	1.226	5.46
20) 2,2'-oxybis(	0.513	0.537	0.491	0.488	0.484	0.477		0.450	0.491	5.57
21) 3&4-Methylph	1.295	1.387	1.281	1.311	1.298	1.269	1.315	1.149	1.288	5.17
22) n-Nitroso-di	1.050	1.058	1.059	1.090	1.054	1.059	1.074	0.960	1.051	3.71
23) Hexachloroet	0.568	0.576	0.514	0.497	0.493	0.495	0.622	0.490	0.532	9.40
24) I Naphthalene-d8					----------ISTD----------					
25) Nitrobenzene	0.373	0.427	0.401	0.408	0.406	0.403	0.414	0.368	0.400	4.99
26) Nitrobenzene	0.392	0.425	0.412	0.420	0.429	0.414	0.439	0.373	0.413	5.16
27) Quinoline	0.735	0.763	0.682	0.656	0.659	0.676	0.753	0.641	0.696	6.83
28) Isophorone	0.667	0.696	0.655	0.682	0.681	0.675	0.683	0.626	0.671	3.24
29) 2-Nitropheno	0.202	0.215	0.205	0.224	0.227	0.216	0.208	0.193	0.211	5.39
30) 2,4-Dimethyl	0.336	0.383	0.370	0.372	0.374	0.377	0.367	0.332	0.364	5.23
31) Benzoic acid		0.235	0.285	0.290	0.292	0.289		0.217	0.268	12.28
32) bis(2-Chloro	0.376	0.387	0.352	0.361	0.370	0.362	0.378	0.334	0.365	4.56
33) 2,4-Dichloro	0.283	0.307	0.288	0.289	0.292	0.287	0.250	0.275	0.284	5.68
34) 2,6-Dichloro	0.297	0.301	0.282	0.283	0.286	0.284	0.320	0.266	0.290	5.53
35) 1,3,5-Trichl	0.356	0.357	0.325	0.339	0.344	0.334	0.372	0.317	0.343	5.29
36) 1,2,4-Trichl	0.337	0.345	0.308	0.310	0.314	0.306	0.363	0.305	0.324	6.76
37) 1,2,3-Trichl	0.340	0.328	0.301	0.287	0.287	0.296	0.361	0.294	0.312	8.94
38) Naphthalene	1.145	1.182	1.053	1.085	1.095	1.072	1.214	1.001	1.106	6.35
39) 4-Chloroanil	0.463	0.468	0.447	0.457	0.463	0.455	0.445	0.406	0.451	4.33
40) 2,3-Dichloro	0.371	0.388	0.345	0.341	0.338	0.347	0.398	0.333	0.358	6.92
41) Caprolactam	0.152	0.152	0.158	0.148	0.144	0.149	0.173	0.136	0.151	7.11
42) Hexachlorobu	0.196	0.218	0.185	0.176	0.176	0.181	0.236	0.184	0.194	11.34
43) 4-Chloro-3-m	0.345	0.329	0.321	0.323	0.317	0.316	0.339	0.299	0.324	4.45
44) 2-Methylnaph	0.660	0.670	0.613	0.617	0.616	0.620	0.648	0.576	0.628	4.82
45) 1-Methylnaph	0.689	0.706	0.640	0.633	0.629	0.637	0.698	0.606	0.655	5.70

Initial Calibration Summary

Job Number: JC19423 **Sample:** E3E3623-ICC3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82697.D
Project: BMSMC, Building 5 Area, PR

```
46) Dimethylnaph 0.641 0.694 0.623 0.609 0.597 0.618 0.691 0.597 0.634   6.15

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy       0.232 0.293 0.349 0.355 0.341       0.233 0.301  18.95
            ---- Quadratic regression ----  Coefficient =  0.9995
              Response Ratio = -0.04596 + 0.34209 *A + 0.00450 *A^2

49) 2,4,6-Trichl 0.384 0.374 0.361 0.368 0.370 0.373 0.335 0.338 0.363   4.77
50) 2,4,5-Trichl 0.418 0.419 0.373 0.396 0.396 0.399 0.461 0.368 0.404   7.32
51) 2-Fluorobiph 1.363 1.364 1.265 1.331 1.306 1.316 1.458 1.209 1.327   5.56
52) 2-Chloronaph 1.186 1.218 1.093 1.121 1.103 1.130 1.154 1.066 1.134   4.42
53) Biphenyl     1.566 1.579 1.438 1.567 1.539 1.528 1.510 1.369 1.512   4.82
54) 2-Nitroanili 0.386 0.417 0.415 0.455 0.433 0.424 0.443 0.389 0.420   5.77
55) Dimethylphth 1.382 1.412 1.294 1.302 1.298 1.319 1.395 1.226 1.328   4.74
56) Acenaphthyle 1.965 1.985 1.824 1.910 1.853 1.890 1.978 1.733 1.892   4.61
57) 2,6-Dinitrot 0.293 0.317 0.296 0.301 0.300 0.307 0.289 0.277 0.297   4.06
58) 3-Nitroanili 0.322 0.343 0.327 0.342 0.339 0.345 0.333 0.299 0.331   4.57
59) Acenaphthene 1.278 1.311 1.176 1.274 1.241 1.254 1.357 1.163 1.257   5.16
60) 2,4-Dinitrop 0.044 0.073 0.130 0.171 0.173 0.162       0.086 0.120  43.67
            ---- Quadratic regression ----  Coefficient =  0.9988
              Response Ratio = -0.02536 + 0.15841 *A + 0.00417 *A^2

61) 4-Nitropheno       0.190 0.215 0.241 0.228 0.230       0.179 0.214  11.48
62) Dibenzofuran 1.694 1.727 1.571 1.647 1.613 1.621 1.842 1.518 1.654   6.06
63) 2,4-Dinitrot 0.388 0.430 0.415 0.423 0.415 0.433 0.370 0.381 0.407   5.90
64) 2,3,4,6-Tetr 0.306 0.328 0.292 0.302 0.302 0.310 0.273 0.282 0.299   5.71
65) Diethylphtha 1.389 1.484 1.376 1.440 1.398 1.409 1.377 1.288 1.395   4.04
66) Fluorene     1.437 1.426 1.336 1.393 1.370 1.386 1.495 1.236 1.385   5.55
67) 4-Chlorophen 0.677 0.695 0.612 0.595 0.584 0.613 0.691 0.585 0.631   7.61
68) 4-Nitroanili 0.296 0.349 0.322 0.338 0.322 0.340 0.293 0.288 0.318   7.35

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.102 0.132 0.152 0.155 0.149       0.105 0.133  17.94
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.00936 + 0.15055 *A + 0.00316 *A^2

71) n-Nitrosodip 0.554 0.597 0.535 0.567 0.575 0.568 0.531 0.516 0.556   4.80
72) 1,2-Diphenyl 0.809 0.829 0.817 0.889 0.884 0.870 0.755 0.769 0.828   6.10
73) 2,4,6-Tribro 0.140 0.151 0.141 0.137 0.140 0.141 0.140 0.139 0.141   2.85
74) 4-Bromopheny 0.247 0.248 0.222 0.228 0.228 0.233 0.269 0.227 0.238   6.64
75) Hexachlorobe 0.300 0.309 0.268 0.264 0.264 0.269 0.333 0.275 0.285   9.11
76) Pentachlorop 0.110 0.120 0.140 0.153 0.159 0.152       0.116 0.136  14.79
77) Phenanthrene 1.235 1.227 1.094 1.158 1.145 1.131 1.244 1.051 1.161   6.05
78) Anthracene   1.187 1.224 1.126 1.163 1.163 1.160 1.208 1.071 1.163   4.13
79) Carbazole    1.098 1.085 1.006 1.064 1.065 1.064 1.076 0.959 1.052   4.40
80) Di-n-butylph 1.261 1.349 1.355 1.476 1.478 1.442 1.281 1.226 1.359   7.26
81) Fluoranthene 1.258 1.300 1.209 1.295 1.301 1.283 1.276 1.147 1.259   4.30
82) Octadecane   0.431 0.464 0.458 0.528 0.530 0.505 0.442 0.421 0.473   9.13

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.221 1.252 1.172 1.198 1.195 1.210 1.229 1.103 1.197   3.78
85) Terphenyl-d1 0.866 0.860 0.831 0.821 0.824 0.842 0.895 0.779 0.840   4.14
86) Butylbenzylp 0.546 0.537 0.583 0.628 0.619 0.618 0.534 0.503 0.571   8.27
87) Butyl steara 0.278 0.275 0.304 0.344 0.352 0.333 0.255 0.257 0.300  13.04
88) Benzo[a]anth 1.246 1.225 1.125 1.138 1.126 1.148 1.278 1.067 1.169   6.18
89) 3,3'-Dichlor 0.441 0.464 0.446 0.440 0.432 0.445 0.400 0.410 0.435   4.74
90) Chrysene     1.169 1.179 1.073 1.031 0.995 1.062 1.211 1.009 1.091   7.65
91) bis(2-Ethylh 0.705 0.737 0.786 0.775 0.754 0.776 0.666 0.679 0.735   6.32

92) I   Perylene-d12          ----------------ISTD---------------------
```

Initial Calibration Summary

Job Number: JC19423 **Sample:** E3E3623-ICC3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82697.D
Project: BMSMC, Building 5 Area, PR

```
 93) Di-n-octylph 1.236 1.324 1.509 1.771 1.824 1.635       1.237 1.505  16.40
             ---- Quadratic regression ----  Coefficient =  0.9998
               Response Ratio = -0.03560 + 1.48864 *A + 0.14260 *A^2

 94) Benzo[b]fluo 1.305 1.370 1.327 1.452 1.458 1.339 1.350 1.217 1.352   5.77
 95) Benzo[k]fluo 1.272 1.265 1.176 1.191 1.161 1.233 1.212 1.143 1.207   3.94
 96) Benzo[a]pyre 1.105 1.156 1.116 1.173 1.146 1.144 1.138 1.051 1.129   3.37
 97) Indeno[1,2,3 1.067 1.081 1.070 1.129 1.120 1.119 1.050 0.968 1.076   4.85
 98) Dibenz(a,h)a 0.990 1.018 1.003 1.096 1.073 1.061 0.951 0.908 1.012   6.29
 99) Dibenz[a,h]a 1.065 1.140 1.069 1.069 1.018 1.069 1.114 1.004 1.068   4.18
100) 7,12-Dimethy 0.565 0.587 0.612 0.669 0.678 0.644 0.546 0.521 0.603   9.57
101) Benzo[g,h,i] 1.065 1.102 1.031 1.026 0.977 1.013 1.079 0.995 1.036   4.16
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M3E3623.M         Thu Apr 28 10:35:53 2016   MS3E
```

Initial Calibration Verification

Job Number: JC19423 **Sample:** E3E3623-ICV3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82704.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3E3623\3E82704.D          Vial: 10
Acq On    : 27 Apr 2016   7:36 pm                    Operator: ashleyn
Sample    : icv3623-50                               Inst    : MS3E
Misc      : op93161,e3e3623                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
Last Update  : Thu Apr 28 09:55:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	144	0.00	4.53
9	t	Phenol	1.749	1.422	18.7	114	0.00	4.30
12	t	2-Chlorophenol	1.449	1.345	7.2	136	0.00	4.38
19	t	2-Methylphenol	1.226	1.117	8.9	134	0.00	4.74
21	t	3&4-Methylphenol	1.288	1.175	8.8	133	0.00	4.87
24	I	Naphthalene-d8	1.000	1.000	0.0	142	0.00	5.60
29	t	2-Nitrophenol	0.211	0.194	8.1	127	0.00	5.26
30	t	2,4-Dimethylphenol	0.364	0.368	-1.1	138	0.00	5.30
31	t	Benzoic acid	0.268	0.252	6.0	124	0.00	5.44
33	t	2,4-Dichlorophenol	0.284	0.289	-1.8	143	0.00	5.48
34	t	2,6-Dichlorophenol	0.290	0.278	4.1	139	0.00	5.69
43	t	4-Chloro-3-methylphenol	0.324	0.296	8.6	133	-0.01	6.20
47	I	Acenaphthene-d10	1.000	1.000	0.0	152	0.00	7.63
49	t	2,4,6-Trichlorophenol	0.363	0.359	1.1	147	0.00	6.68
50	t	2,4,5-Trichlorophenol	0.404	0.358	11.4	137	-0.01	6.73
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	44.059	11.9	116	0.00	7.76
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.214	0.181	15.4	119	0.00	7.91
64		2,3,4,6-Tetrachlorophenol	0.299	0.301	-0.7	148	0.00	8.11
69	I	Phenanthrene-d10	1.000	1.000	0.0	152	0.00	9.80
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	44.412	11.2	132	-0.01	8.52
		----------	AvgRF	CCRF	% Dev	----------		
76	t	Pentachlorophenol	0.136	0.136	0.0	136	0.00	9.54

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 3E82697.D  M3E623.M        Thu Apr 28 10:08:52 2016   MS3E
```

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3623-ICV3623
Lab FileID: 3E82705.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3623\3E82705.D Vial: 11
Acq On : 27 Apr 2016 8:01 pm Operator: ashleyn
Sample : icv3623-50 Inst : MS3E
Misc : op93161,e3e3623 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
Last Update : Thu Apr 28 09:55:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	138	0.00	4.53
3	t	Pyridine	1.037	1.084	-4.5	144	0.00	2.50
10		Aniline	2.031	1.907	6.1	123	0.00	4.30
16	t	Benzyl alcohol	0.884	0.835	5.5	128	0.00	4.65
24	I	Naphthalene-d8	1.000	1.000	0.0	150	0.00	5.60
39	t	4-Chloroaniline	0.451	0.385	14.6	127	0.00	5.68
44	t	2-Methylnaphthalene	0.628	0.590	6.1	143	0.00	6.34
47	I	Acenaphthene-d10	1.000	1.000	0.0	163	0.00	7.63
54	t	2-Nitroaniline	0.420	0.345	17.9	133	0.00	7.06
58	t	3-Nitroaniline	0.331	0.289	12.7	137	0.00	7.61
62	t	Dibenzofuran	1.654	1.550	6.3	156	0.00	7.92
68	t	4-Nitroaniline	0.318	0.265	16.7	127	0.00	8.48
69	I	Phenanthrene-d10	1.000	1.000	0.0	167	0.00	9.80
79	t	Carbazole	1.052	0.943	10.4	148	0.00	10.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82697.D M3E3623.M Thu Apr 28 10:08:54 2016 MS3E

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3623-ICV3623
Lab FileID: 3E82706.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3623\3E82706.D Vial: 12
Acq On : 27 Apr 2016 8:27 pm Operator: ashleyn
Sample : icv3623-50 Inst : MS3E
Misc : op93161,e3e3623 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
Last Update : Thu Apr 28 09:55:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	168	0.00	4.53
5	S	2-Fluorophenol	1.226	1.047	14.6	142	0.00	3.56
8	S	Phenol-d5	1.595	1.281	19.7	133	0.00	4.29
24	I	Naphthalene-d8	1.000	1.000	0.0	172	0.00	5.60
25	S	Nitrobenzene-d5	0.400	0.338	15.5	144	0.00	4.97
47	I	Acenaphthene-d10	1.000	1.000	0.0	179	0.00	7.63
51	S	2-Fluorobiphenyl	1.327	1.207	9.0	164	0.00	6.78
69	I	Phenanthrene-d10	1.000	1.000	0.0	178	0.00	9.80
73	S	2,4,6-Tribromophenol	0.141	0.122	13.5	154	0.00	8.76
83	I	Chrysene-d12	1.000	1.000	0.0	160	-0.01	13.97
85	S	Terphenyl-d14	0.840	0.776	7.6	147	0.00	12.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82697.D M3E3623.M Thu Apr 28 10:08:55 2016 MS3E

Initial Calibration Verification

Job Number: JC19423 **Sample:** E3E3623-ICV3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82707.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3623\3E82707.D Vial: 13
Acq On : 27 Apr 2016 8:53 pm Operator: ashleyn
Sample : icv3623-50 Inst : MS3E
Misc : op93161,e3e3623 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:34:49 2016
Last Update : Thu Apr 28 10:34:49 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	139	0.00	4.53
4	t	N-Nitrosodimethylamine	0.590	0.583	1.2	134	0.02	2.36
11	t	bis(2-Chloroethyl)ether	1.199	1.111	7.3	135	0.00	4.34
14	t	1,3-Dichlorobenzene	1.585	1.503	5.2	137	0.00	4.49
15	t	1,4-Dichlorobenzene	1.663	1.536	7.6	137	0.00	4.54
17	t	1,2-Dichlorobenzene	1.498	1.394	6.9	135	0.00	4.66
20	t	2,2'-oxybis(1-Chloropropa	0.491	0.396	19.3	116	0.00	4.74
22	t	n-Nitroso-di-n-propylamin	1.051	0.902	14.2	119	0.00	4.85
23	t	Hexachloroethane	0.532	0.521	2.1	147	0.00	4.92
24	I	Naphthalene-d8	1.000	1.000	0.0	134	0.00	5.60
26	t	Nitrobenzene	0.413	0.377	8.7	122	0.00	4.98
28	t	Isophorone	0.671	0.666	0.7	132	0.00	5.19
32	t	bis(2-Chloroethoxy)methan	0.365	0.334	8.5	124	0.00	5.38
36	t	1,2,4-Trichlorobenzene	0.324	0.319	1.5	140	0.00	5.55
38	t	Naphthalene	1.106	1.056	4.5	132	0.00	5.62
42	t	Hexachlorobutadiene	0.194	0.194	0.0	144	0.00	5.73
47	I	Acenaphthene-d10	1.000	1.000	0.0	136	0.00	7.63
		----------	True	Calc.	% Drift	----------		
48	t	Hexachlorocyclopentadiene	50.000	47.488	5.0	116	0.00	6.51
		----------	AvgRF	CCRF	% Dev	----------		
52	t	2-Chloronaphthalene	1.134	1.094	3.5	131	0.00	6.91
55	t	Dimethylphthalate	1.328	1.256	5.4	129	0.00	7.31
56	t	Acenaphthylene	1.892	1.732	8.5	124	0.00	7.44
57	t	2,6-Dinitrotoluene	0.297	0.280	5.7	124	0.00	7.39
59	t	Acenaphthene	1.257	1.174	6.6	127	0.00	7.68
63	t	2,4-Dinitrotoluene	0.407	0.349	14.3	109	0.00	7.94
65	t	Diethylphthalate	1.395	1.255	10.0	121	0.00	8.30
66	t	Fluorene	1.385	1.237	10.7	121	0.00	8.41
67	t	4-Chlorophenyl-phenylethe	0.631	0.580	8.1	128	0.00	8.43
69	I	Phenanthrene-d10	1.000	1.000	0.0	132	0.00	9.80
71	t	n-Nitrosodiphenylamine	0.556	0.502	9.7	117	0.00	8.61
72	t	1,2-Diphenylhydrazine	0.828	0.770	7.0	117	0.00	8.66
74	t	4-Bromophenyl-phenylether	0.238	0.230	3.4	130	0.00	9.15
75	t	Hexachlorobenzene	0.285	0.265	7.0	131	0.00	9.21
77	t	Phenanthrene	1.161	1.047	9.8	122	0.00	9.83
78	t	Anthracene	1.163	1.025	11.9	117	0.00	9.92
80	t	Di-n-butylphthalate	1.359	1.231	9.4	113	0.00	10.83

Initial Calibration Verification

Job Number: JC19423 **Sample:** E3E3623-ICV3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82707.D
Project: BMSMC, Building 5 Area, PR

81	t	Fluoranthene	1.259	1.114	11.5	115	0.00	11.69
83	I	Chrysene-d12	1.000	1.000	0.0	120	0.00	13.98
84	t	Pyrene	1.197	1.157	3.3	115	0.00	12.04
86	t	Butylbenzylphthalate	0.571	0.525	8.1	102	0.00	13.20
88	t	Benzo[a]anthracene	1.169	1.049	10.3	110	0.00	13.96
90	t	Chrysene	1.091	0.945	13.4	107	0.00	14.02
91	t	bis(2-Ethylhexyl)phthalat	0.735	0.669	9.0	103	0.00	14.17
92	I	Perylene-d12	1.000	1.000	0.0	112	0.00	16.09
		----------	True	Calc.	% Drift	----------		
93	t	Di-n-octylphthalate	50.000	42.065	15.9	93	0.00	15.16
		----------	AvgRF	CCRF	% Dev	----------		
94	t	Benzo[b]fluoranthene	1.352	1.169	13.5	98	-0.01	15.57
95	t	Benzo[k]fluoranthene	1.207	1.131	6.3	103	-0.01	15.61
96	t	Benzo[a]pyrene	1.129	1.043	7.6	102	0.00	16.01
97	t	Indeno[1,2,3-cd]pyrene	1.076	1.039	3.4	104	0.00	17.56
99	t	Dibenz[a,h]anthracene	1.068	1.005	5.9	106	-0.01	17.60
101	t	Benzo[g,h,i]perylene	1.036	0.953	8.0	106	-0.01	17.96

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82697.D M3E3623.M Thu Apr 28 10:39:48 2016 MS3E

6.7.10

6

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3623-ICV3623
Lab FileID: 3E82708.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3623\3E82708.D Vial: 14
Acq On : 27 Apr 2016 9:18 pm Operator: ashleyn
Sample : icv3623-50 Inst : MS3E
Misc : op93161,e3e3623 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
Last Update : Thu Apr 28 09:55:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	134	0.00	4.53
2	t	1,4-Dioxane	0.365	0.357	2.2	148	0.03	2.05
6	t	Indene	2.386	2.391	-0.2	137	0.00	4.73
7	t	Cumene	3.490	3.434	1.6	135	0.00	3.93
13	t	Decane	1.534	1.502	2.1	133	0.00	4.41
18	t	Acetophenone	1.984	1.785	10.0	123	0.00	4.84
24	I	Naphthalene-d8	1.000	1.000	0.0	137	0.00	5.60
27	t	Quinoline	0.696	0.669	3.9	135	0.00	5.96
40	t	2,3-Dichloroaniline	0.358	0.293	18.2	115	0.00	6.67
41	t	Caprolactam	0.151	0.125	17.2	115	-0.03	6.04
45	t	1-Methylnaphthalene	0.655	0.613	6.4	131	0.00	6.45
46	t	Dimethylnaphthalene	0.634	0.593	6.5	131	0.00	7.09
47	I	Acenaphthene-d10	1.000	1.000	0.0	139	0.00	7.63
53	t	Biphenyl	1.512	1.468	2.9	133	0.00	6.90
69	I	Phenanthrene-d10	1.000	1.000	0.0	140	0.00	9.80
82	t	Octadecane	0.473	0.451	4.7	125	0.00	9.76
92	I	Perylene-d12	1.000	1.000	0.0	126	0.00	16.09
100	t	7,12-Dimethylbenz(a)anthr	0.603	0.308	48.9#	60	-0.02	15.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82697.D M3E3623.M Thu Apr 28 10:08:57 2016 MS3E

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3623-ICV3623
Lab FileID: 3E82709.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3623\3E82709.D Vial: 15
Acq On : 27 Apr 2016 9:44 pm Operator: ashleyn
Sample : icv3623-50 Inst : MS3E
Misc : op93161,e3e3623 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
Last Update : Thu Apr 28 09:55:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	136	-0.01	13.97
89 t	3,3'-Dichlorobenzidine	0.435	0.423	2.8	129	0.00	13.98

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82697.D M3E3623.M Thu Apr 28 10:08:58 2016 MS3E

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3E3634-CC3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82880.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3634\3E82880.D Vial: 2
Acq On : 4 May 2016 2:38 pm Operator: ashleyn
Sample : cc3623-25 Inst : MS3E
Misc : op93477,e3e3634 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MTue May 03 11:07:38 2016
Last Update : Tue May 03 11:07:38 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	-0.05	4.49
2	t	1,4-Dioxane	0.365	0.354	3.0	99	-0.06	1.97
3	t	Pyridine	1.037	0.926	10.7	84	-0.05	2.32
4	t	N-Nitrosodimethylamine	0.590	0.524	11.2	81	-0.05	2.28
5	S	2-Fluorophenol	1.226	1.161	5.3	89	-0.04	3.51
6	t	Indene	2.386	2.185	8.4	89	-0.05	4.68
7	t	Cumene	3.490	3.264	6.5	92	-0.04	3.88
8	S	Phenol-d5	1.595	1.459	8.5	89	-0.04	4.25
9	t	Phenol	1.749	1.664	4.9	92	-0.04	4.26
10		Aniline	2.031	1.746	14.0	81	-0.05	4.25
11	t	bis(2-Chloroethyl)ether	1.200	1.094	8.8	90	-0.04	4.30
12	t	2-Chlorophenol	1.449	1.390	4.1	92	-0.04	4.34
13	t	Decane	1.534	1.293	15.7	82	-0.05	4.36
14	t	1,3-Dichlorobenzene	1.585	1.563	1.4	96	-0.05	4.44
15	t	1,4-Dichlorobenzene	1.663	1.588	4.5	97	-0.04	4.50
16	t	Benzyl alcohol	0.884	0.835	5.5	90	-0.05	4.60
17	t	1,2-Dichlorobenzene	1.498	1.465	2.2	95	-0.04	4.61
18	t	Acetophenone	1.984	1.915	3.5	93	-0.05	4.80
19	t	2-Methylphenol	1.226	1.137	7.3	90	-0.04	4.71
20	t	2,2'-oxybis(1-Chloropropa	0.491	0.467	4.9	91	-0.05	4.70
21	t	3&4-Methylphenol	1.288	1.212	5.9	90	-0.04	4.83
22	t	n-Nitroso-di-n-propylamin	1.051	0.978	6.9	88	-0.05	4.80
23	t	Hexachloroethane	0.532	0.557	-4.7	103	-0.05	4.87
24	I	Naphthalene-d8	1.000	1.000	0.0	92	-0.06	5.55
25	S	Nitrobenzene-d5	0.400	0.397	0.8	91	-0.05	4.92
26	t	Nitrobenzene	0.413	0.403	2.4	90	-0.05	4.94
27	t	Quinoline	0.696	0.680	2.3	92	-0.06	5.90
28	t	Isophorone	0.671	0.633	5.7	89	-0.05	5.14
29	t	2-Nitrophenol	0.211	0.211	0.0	95	-0.05	5.21
30	t	2,4-Dimethylphenol	0.364	0.379	-4.1	94	-0.05	5.26
31	t	Benzoic acid	0.268	0.255	4.9	82	-0.06	5.38
32	t	bis(2-Chloroethoxy)methan	0.365	0.340	6.8	89	-0.05	5.33
33	t	2,4-Dichlorophenol	0.284	0.299	-5.3	96	-0.05	5.44
34	t	2,6-Dichlorophenol	0.290	0.302	-4.1	99	-0.05	5.64
35		1,3,5-Trichlorobenzene	0.343	0.371	-8.2	105	-0.05	5.21
36	t	1,2,4-Trichlorobenzene	0.324	0.342	-5.6	102	-0.06	5.49
37		1,2,3-Trichlorobenzene	0.312	0.328	-5.1	100	-0.06	5.71
38	t	Naphthalene	1.106	1.060	4.2	92	-0.06	5.57
39	t	4-Chloroaniline	0.451	0.438	2.9	90	-0.05	5.63
40	t	2,3-Dichloroaniline	0.358	0.367	-2.5	98	-0.06	6.61
41	t	Caprolactam	0.151	0.137	9.3	80	-0.07	5.99

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3E3634-CC3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82880.D
Project: BMSMC, Building 5 Area, PR

42 t	Hexachlorobutadiene	0.194	0.216	-11.3	107	-0.06	5.68
43 t	4-Chloro-3-methylphenol	0.324	0.320	1.2	92	-0.05	6.15
44 t	2-Methylnaphthalene	0.628	0.653	-4.0	98	-0.06	6.28
45 t	1-Methylnaphthalene	0.655	0.663	-1.2	95	-0.06	6.39
46 t	Dimethylnaphthalene	0.634	0.641	-1.1	95	-0.07	7.03
47 I	Acenaphthene-d10	1.000	1.000	0.0	92	-0.01	7.57
	----------	True	Calc.	% Drift	----------		
48 t	Hexachlorocyclopentadiene	50.000	54.082	-8.2	107	-0.01	6.45
	----------	AvgRF	CCRF	% Dev	----------		
49 t	2,4,6-Trichlorophenol	0.363	0.393	-8.3	100	0.00	6.63
50 t	2,4,5-Trichlorophenol	0.404	0.427	-5.7	105	0.00	6.68
51 S	2-Fluorobiphenyl	1.327	1.363	-2.7	99	-0.01	6.71
52 t	2-Chloronaphthalene	1.134	1.142	-0.7	96	-0.02	6.85
53 t	Biphenyl	1.512	1.528	-1.1	98	-0.01	6.83
54 t	2-Nitroaniline	0.420	0.419	0.2	93	0.00	7.00
55 t	Dimethylphthalate	1.328	1.369	-3.1	97	-0.01	7.24
56 t	Acenaphthylene	1.892	1.881	0.6	95	-0.01	7.37
57 t	2,6-Dinitrotoluene	0.297	0.311	-4.7	97	0.00	7.33
58 t	3-Nitroaniline	0.331	0.330	0.3	93	-0.01	7.55
59 t	Acenaphthene	1.257	1.267	-0.8	99	-0.01	7.61
	----------	True	Calc.	% Drift	----------		
60 t	2,4-Dinitrophenol	50.000	54.367	-8.7	112	0.03	7.71
	----------	AvgRF	CCRF	% Dev	----------		
61 t	4-Nitrophenol	0.214	0.246	-15.0	105	0.01	7.87
62 t	Dibenzofuran	1.654	1.669	-0.9	98	0.00	7.85
63 t	2,4-Dinitrotoluene	0.407	0.435	-6.9	97	0.00	7.88
64	2,3,4,6-Tetrachlorophenol	0.299	0.315	-5.4	99	0.00	8.05
65 t	Diethylphthalate	1.395	1.425	-2.2	95	-0.01	8.23
66 t	Fluorene	1.385	1.390	-0.4	96	0.00	8.34
67 t	4-Chlorophenyl-phenylethe	0.631	0.679	-7.6	102	0.00	8.36
68 t	4-Nitroaniline	0.318	0.325	-2.2	93	0.00	8.41
69 I	Phenanthrene-d10	1.000	1.000	0.0	95	-0.03	9.73
	----------	True	Calc.	% Drift	----------		
70 t	4,6-Dinitro-2-methylpheno	25.000	26.089	-4.4	103	-0.03	8.47
	----------	AvgRF	CCRF	% Dev	----------		
71 t	n-Nitrosodiphenylamine	0.556	0.554	0.4	98	-0.03	8.54
72 t	1,2-Diphenylhydrazine	0.828	0.793	4.2	92	-0.03	8.59
73 S	2,4,6-Tribromophenol	0.141	0.156	-10.6	105	-0.03	8.70
74 t	4-Bromophenyl-phenylether	0.238	0.245	-2.9	105	-0.03	9.08
75 t	Hexachlorobenzene	0.285	0.306	-7.4	108	-0.03	9.14
76 t	Pentachlorophenol	0.136	0.133	2.2	90	-0.02	9.47
77 t	Phenanthrene	1.161	1.114	4.0	97	-0.03	9.76
78 t	Anthracene	1.163	1.132	2.7	95	-0.03	9.84
79 t	Carbazole	1.052	1.034	1.7	98	-0.02	10.13
80 t	Di-n-butylphthalate	1.359	1.340	1.4	94	-0.02	10.75
81 t	Fluoranthene	1.259	1.286	-2.1	101	-0.02	11.62
82 t	Octadecane	0.473	0.427	9.7	88	-0.03	9.69
83 I	Chrysene-d12	1.000	1.000	0.0	98	-0.03	13.91
84 t	Pyrene	1.197	1.190	0.6	100	-0.03	11.96
85 S	Terphenyl-d14	0.840	0.851	-1.3	101	-0.03	12.28
86 t	Butylbenzylphthalate	0.571	0.556	2.6	94	-0.02	13.13

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3E3634-CC3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82880.D
Project: BMSMC, Building 5 Area, PR

87		Butyl stearate	0.300	0.267	11.0	86	-0.02	13.31
88	t	Benzo[a]anthracene	1.169	1.121	4.1	98	-0.02	13.89
89	t	3,3'-Dichlorobenzidine	0.435	0.459	-5.5	101	-0.03	13.91
90	t	Chrysene	1.091	1.055	3.3	97	-0.03	13.94
91	t	bis(2-Ethylhexyl)phthalat	0.735	0.679	7.6	85	-0.02	14.09
92	I	Perylene-d12	1.000	1.000	0.0	84	-0.07	16.02
		----------	True	Calc.	% Drift		----------	
93	t	Di-n-octylphthalate	25.000	25.207	-0.8	86	-0.07	15.09
		----------	AvgRF	CCRF	% Dev		----------	
94	t	Benzo[b]fluoranthene	1.352	1.470	-8.7	94	-0.08	15.50
95	t	Benzo[k]fluoranthene	1.207	1.267	-5.0	91	-0.09	15.54
96	t	Benzo[a]pyrene	1.129	1.178	-4.3	89	-0.08	15.94
97	t	Indeno[1,2,3-cd]pyrene	1.076	1.050	2.4	83	-0.10	17.47
98	t	Dibenz(a,h)acridine	1.012	0.951	6.0	80	-0.09	17.15
99	t	Dibenz[a,h]anthracene	1.068	1.070	-0.2	85	-0.10	17.50
100	t	7,12-Dimethylbenz(a)anthr	0.603	0.678	-12.4	94	-0.09	15.49
101	t	Benzo[g,h,i]perylene	1.036	1.072	-3.5	88	-0.11	17.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82672a.D M3E3623.M Wed May 04 15:38:05 2016 MS3E

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3E3634-CC3621
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82881.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3634\3E82881.D Vial: 3
Acq On : 4 May 2016 3:05 pm Operator: ashleyn
Sample : cc3621-25 Inst : MS3E
Misc : op93477,e3e3634 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MTue May 03 11:07:38 2016
Last Update : Tue May 03 11:07:38 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 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.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	60	-0.05	4.49
103	Benzaldehyde	1.084	0.915	15.6	51	-0.05	4.17
104	Acenaphthene-d10a	1.000	1.000	0.0	71	-0.07	7.57
105	1,2,4,5-Tetrachlorobenzen	0.495	0.589	-19.0	89	-0.07	6.47
106	Phenanthrene-d10a	1.000	1.000	0.0	76	-0.03	9.72
107	Atrazine	0.102	0.122	-19.6	94	-0.03	9.40
108 I	Chrysene-d12a	1.000	1.000	0.0	91	-0.09	13.90
109 T	benzidine	0.492	0.498	-1.2	91	-0.09	11.90
110 I	Naphthalene-d8a	1.000	1.000	0.0	57	-0.06	5.55
111 T	Hydroquinone	0.275	0.287	-4.4	56	-0.06	6.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82672a.D M3E3623.M Wed May 04 15:38:06 2016 MS3E

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3E3643-CC3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E83088.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3643\3E83088.D Vial: 2
Acq On : 11 May 2016 9:23 am Operator: ashleyn
Sample : cc3623-25 Inst : MS3E
Misc : op93596,e3e3643 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
Last Update : Wed May 11 11:10:51 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	4.42
2	t	1,4-Dioxane	0.365	0.357	2.2	109	-0.09	1.88
3	t	Pyridine	1.037	0.879	15.2	87	-0.07	2.24
4	t	N-Nitrosodimethylamine	0.590	0.504	14.6	85	-0.07	2.21
5	S	2-Fluorophenol	1.226	1.113	9.2	94	0.02	3.48
6	t	Indene	2.386	2.203	7.7	98	0.00	4.61
7	t	Cumene	3.490	3.062	12.3	95	-0.01	3.81
8	S	Phenol-d5	1.595	1.407	11.8	93	0.05	4.22
9	t	Phenol	1.749	1.490	14.8	90	0.04	4.23
10		Aniline	2.031	1.628	19.8	83	0.00	4.18
11	t	bis(2-Chloroethyl)ether	1.200	1.120	6.7	100	0.00	4.23
12	t	2-Chlorophenol	1.449	1.335	7.9	97	0.02	4.29
13	t	Decane	1.534	1.270	17.2	88	0.00	4.30
14	t	1,3-Dichlorobenzene	1.585	1.548	2.3	104	0.08	4.38
15	t	1,4-Dichlorobenzene	1.663	1.555	6.5	104	0.00	4.44
16	t	Benzyl alcohol	0.884	0.796	10.0	94	0.07	4.54
17	t	1,2-Dichlorobenzene	1.498	1.483	1.0	105	0.03	4.55
18	t	Acetophenone	1.984	1.810	8.8	97	0.08	4.74
19	t	2-Methylphenol	1.226	1.110	9.5	97	-0.02	4.66
20	t	2,2'-oxybis(1-Chloropropa	0.491	0.454	7.5	97	0.08	4.63
21	t	3&4-Methylphenol	1.288	1.166	9.5	95	0.00	4.78
22	t	n-Nitroso-di-n-propylamin	1.051	0.937	10.8	92	0.00	4.74
23	t	Hexachloroethane	0.532	0.623	-17.1	127	0.00	4.80
24	I	Naphthalene-d8	1.000	1.000	0.0	103	0.00	5.47
25	S	Nitrobenzene-d5	0.400	0.376	6.0	96	0.00	4.85
26	t	Nitrobenzene	0.413	0.394	4.6	99	0.00	4.87
27	t	Quinoline	0.696	0.679	2.4	103	0.01	5.82
28	t	Isophorone	0.671	0.607	9.5	95	0.00	5.07
29	t	2-Nitrophenol	0.211	0.202	4.3	101	0.01	5.13
30	t	2,4-Dimethylphenol	0.364	0.350	3.8	98	0.03	5.20
31	t	Benzoic acid	0.268	0.255	4.9	92	0.02	5.32
32	t	bis(2-Chloroethoxy)methan	0.365	0.332	9.0	97	0.01	5.25
33	t	2,4-Dichlorophenol	0.284	0.312	-9.9	112	0.03	5.38
34	t	2,6-Dichlorophenol	0.290	0.315	-8.6	115	0.02	5.56
35		1,3,5-Trichlorobenzene	0.343	0.377	-9.9	119	0.01	5.14
36	t	1,2,4-Trichlorobenzene	0.324	0.362	-11.7	121	0.00	5.41
37		1,2,3-Trichlorobenzene	0.312	0.345	-10.6	118	0.00	5.62
38	t	Naphthalene	1.106	1.040	6.0	102	0.00	5.48
39	t	4-Chloroaniline	0.451	0.429	4.9	99	0.02	5.55
40	t	2,3-Dichloroaniline	0.358	0.384	-7.3	115	0.03	6.53
41	t	Caprolactam	0.151	0.136	9.9	89	0.00	5.91

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3E3643-CC3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E83088.D
Project: BMSMC, Building 5 Area, PR

42 t	Hexachlorobutadiene	0.194	0.239	-23.2#	133	0.00	5.60
43 t	4-Chloro-3-methylphenol	0.324	0.315	2.8	101	0.05	6.10
44 t	2-Methylnaphthalene	0.628	0.663	-5.6	111	0.01	6.19
45 t	1-Methylnaphthalene	0.655	0.681	-4.0	110	0.01	6.30
46 t	Dimethylnaphthalene	0.634	0.694	-9.5	115	0.02	6.93
47 I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	7.46
	----------	True	Calc.	% Drift	----------		
48 t	Hexachlorocyclopentadiene	50.000	40.508	19.0	94	0.00	6.36
	----------	AvgRF	CCRF	% Dev	----------		
49 t	2,4,6-Trichlorophenol	0.363	0.387	-6.6	121	0.01	6.54
50 t	2,4,5-Trichlorophenol	0.404	0.421	-4.2	127	-0.03	6.62
51 S	2-Fluorobiphenyl	1.327	1.362	-2.6	121	0.00	6.62
52 t	2-Chloronaphthalene	1.134	1.139	-0.4	118	0.00	6.76
53 t	Biphenyl	1.512	1.479	2.2	116	0.00	6.74
54 t	2-Nitroaniline	0.420	0.405	3.6	110	0.02	6.92
55 t	Dimethylphthalate	1.328	1.367	-2.9	119	0.00	7.15
56 t	Acenaphthylene	1.892	1.852	2.1	114	0.00	7.28
57 t	2,6-Dinitrotoluene	0.297	0.302	-1.7	115	0.01	7.23
58 t	3-Nitroaniline	0.331	0.314	5.1	108	0.02	7.46
59 t	Acenaphthene	1.257	1.224	2.6	117	0.00	7.51
	----------	True	Calc.	% Drift	----------		
60 t	2,4-Dinitrophenol	50.000	48.513	3.0	120	0.06	7.62
	----------	AvgRF	CCRF	% Dev	----------		
61 t	4-Nitrophenol	0.214	0.225	-5.1	118	-0.06	7.86
62 t	Dibenzofuran	1.654	1.608	2.8	115	0.00	7.75
63 t	2,4-Dinitrotoluene	0.407	0.417	-2.5	113	-0.01	7.79
64	2,3,4,6-Tetrachlorophenol	0.299	0.303	-1.3	117	0.04	7.96
65 t	Diethylphthalate	1.395	1.409	-1.0	115	0.02	8.13
66 t	Fluorene	1.385	1.378	0.5	116	0.02	8.23
67 t	4-Chlorophenyl-phenylethe	0.631	0.692	-9.7	128	0.02	8.26
68 t	4-Nitroaniline	0.318	0.317	0.3	111	-0.06	8.32
69 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00	9.62
	----------	True	Calc.	% Drift	----------		
70 t	4,6-Dinitro-2-methylpheno	25.000	25.000	0.0	121	0.00	8.37
	----------	AvgRF	CCRF	% Dev	----------		
71 t	n-Nitrosodiphenylamine	0.556	0.531	4.5	116	0.00	8.44
72 t	1,2-Diphenylhydrazine	0.828	0.768	7.2	110	0.00	8.48
73 S	2,4,6-Tribromophenol	0.141	0.145	-2.8	120	0.00	8.59
74 t	4-Bromophenyl-phenylether	0.238	0.255	-7.1	134	0.00	8.97
75 t	Hexachlorobenzene	0.285	0.290	-1.8	127	0.00	9.03
76 t	Pentachlorophenol	0.136	0.116	14.7	97	0.02	9.38
77 t	Phenanthrene	1.161	1.088	6.3	116	0.00	9.65
78 t	Anthracene	1.163	1.122	3.5	116	0.01	9.73
79 t	Carbazole	1.052	1.002	4.8	116	0.02	10.03
80 t	Di-n-butylphthalate	1.359	1.276	6.1	110	0.03	10.65
81 t	Fluoranthene	1.259	1.267	-0.6	122	0.03	11.50
82 t	Octadecane	0.473	0.383	19.0	98	0.00	9.58
83 I	Chrysene-d12	1.000	1.000	0.0	108	0.00	13.79
84 t	Pyrene	1.197	1.313	-9.7	121	-0.02	11.85
85 S	Terphenyl-d14	0.840	0.947	-12.7	123	-0.01	12.17
86 t	Butylbenzylphthalate	0.571	0.570	0.2	105	0.00	13.02

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3E3643-CC3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E83088.D
Project: BMSMC, Building 5 Area, PR

87		Butyl stearate	0.300	0.272	9.3	96	0.00	13.19
88	t	Benzo[a]anthracene	1.169	1.172	-0.3	112	0.00	13.77
89	t	3,3'-Dichlorobenzidine	0.435	0.458	-5.3	111	0.00	13.79
90	t	Chrysene	1.091	1.081	0.9	108	0.00	13.83
91	t	bis(2-Ethylhexyl)phthalat	0.735	0.681	7.3	93	0.02	13.98
92	I	Perylene-d12	1.000	1.000	0.0	88	0.00	15.90
		----------	True	Calc.	% Drift	----------		
93	t	Di-n-octylphthalate	25.000	24.225	3.1	86	0.00	14.97
		----------	AvgRF	CCRF	% Dev	----------		
94	t	Benzo[b]fluoranthene	1.352	1.299	3.9	86	0.10	15.38
95	t	Benzo[k]fluoranthene	1.207	1.229	-1.8	92	-0.01	15.42
96	t	Benzo[a]pyrene	1.129	1.111	1.6	88	0.00	15.82
97	t	Indeno[1,2,3-cd]pyrene	1.076	1.097	-2.0	90	-0.02	17.31
98	t	Dibenz(a,h)acridine	1.012	0.983	2.9	86	-0.02	17.01
99	t	Dibenz[a,h]anthracene	1.068	1.126	-5.4	93	-0.01	17.35
100	t	7,12-Dimethylbenz(a)anthr	0.603	0.620	-2.8	89	-0.02	15.37
101	t	Benzo[g,h,i]perylene	1.036	1.097	-5.9	94	-0.02	17.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82672a.D M3E3623.M Wed May 11 12:22:57 2016 MS3E

6.7.15
6

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3E3643-CC3621
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E83089.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3643\3E83089.D Vial: 3
Acq On : 11 May 2016 9:49 am Operator: ashleyn
Sample : cc3621-25 Inst : MS3E
Misc : op93596,e3e3643 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3623.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
Last Update : Wed May 11 11:10:51 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 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.
102		1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	61	0.00	4.42
103		Benzaldehyde	1.084	0.922	14.9	53	0.00	4.10
104		Acenaphthene-d10a	1.000	1.000	0.0	87	0.00	7.46
105		1,2,4,5-Tetrachlorobenzen	0.495	0.605	-22.2#	111	0.00	6.38
106		Phenanthrene-d10a	1.000	1.000	0.0	92	0.00	9.61
107		Atrazine	0.102	0.127	-24.5#	118	0.00	9.29
108	I	Chrysene-d12a	1.000	1.000	0.0	105	0.00	13.79
109	T	benzidine	0.492	0.357	27.4#	75	-0.02	11.79
110	I	Naphthalene-d8a	1.000	1.000	0.0	59	0.00	5.47
111	T	Hydroquinone	0.275	0.355	-29.1#	71	0.05	5.95

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E82672a.D M3E3623.M Wed May 11 12:22:59 2016 MS3E

Initial Calibration Summary

Job Number: JC19423 **Sample:** E3M2855-ICC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60763A.D
Project: BMSMC, Building 5 Area, PR

```
                        Response Factor Report  MS3M

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Calibration Files
2.5 =3m60771.D   1.0 =3m60763a.D  0.5 =3m60764a.D  0.2 =3m60765a.D
0.1 =3m60766.D   0.05=3m60767.D   0.02=3m60768.D   0.01=3m60769.D
5   =3m60770.D       =                =                =

Compound
            2.5   1.0   0.5   0.2   0.1   0.05  0.02  0.01  5            Avg    %RSD
-----------------------------------------------------------------------------

1) I   1-Methylnaphthalene-d ----------------ISTD---------------------
2)  1,4-dioxane
          0.203 0.208 0.213 0.203 0.229 0.249 0.142 0.206 0.207        0.207   13.87
3)  2-Fluorophenol
          0.491 0.509 0.520 0.520 0.508 0.504 0.493       0.460        0.500    3.90
4)  Phenol-d5
          0.804 0.853 0.878 0.881 0.846 0.829 0.817 0.745 0.800        0.828    5.16
5)  Phenol
          0.851 0.928 0.933 0.920 0.894 0.883 0.866       0.866        0.893    3.51
6)  bis(2-Chloroethyl)ether
          0.591 0.707 0.712 0.713 0.696 0.711 0.696 0.663 0.582        0.675    7.74
7)  Nitrobenzene-d5
          0.638 0.806 0.832 0.805 0.758 0.744             0.807        0.770    8.55
8)  Nitrobenzene
          0.854 0.860 0.836 0.825 0.799 0.811 0.814 0.833 0.887        0.836    3.30
9)  Naphthalene
          2.224 2.193 2.197 2.251 2.235 2.191 2.239 2.236 2.237        2.223    1.02
10)  Hexachlorobutadiene
          0.362 0.402 0.405 0.406 0.389 0.398 0.383 0.361 0.382        0.387    4.43
11)  2-Methylnaphthalene
          1.162 1.204 1.136 1.160 1.133 1.125 1.156 1.137 1.209        1.158    2.63
12)  1-Methylnaphthalene
          1.412 1.400 1.398 1.453 1.441 1.564 1.930 2.020 1.413        1.559   15.54
13)  Hexachlorocyclopentadiene
          0.328 0.354 0.325 0.283 0.244 0.242             0.377        0.308   17.08

14) I   Fluorene-d10          ----------------ISTD---------------------
15)  2-Fluorobiphenyl
          0.947 1.110 1.110 1.165 1.171 1.115 1.098 1.077              1.099    6.31
16)  Acenaphthylene
          1.412 1.536 1.478 1.441 1.385 1.283 1.281 1.283 1.368        1.385    6.61
17)  Acenaphthene
          0.909 0.985 0.947 0.967 0.951 0.914 0.906 0.875 0.867        0.925    4.39
18)  4,6-dinitro-2-methylphenol
          0.154 0.130 0.084 0.056 0.038                   0.176        0.106   52.07
           ---- Quadratic regression ----  Coefficient =  0.9996
             Response Ratio = -0.02319 + 0.14133 *A + 0.00610 *A^2

19)  Fluorene
          1.036 1.189 1.143 1.159 1.121 1.092 1.109 1.147 0.991        1.110    5.63
20)  2,4,6-Tribromophenol
          0.120 0.132 0.134 0.130 0.115                   0.120        0.125    6.09

21) I   Fluoranthene-d10      ----------------ISTD---------------------
```

Initial Calibration Summary

Job Number: JC19423 **Sample:** E3M2855-ICC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60763A.D
Project: BMSMC, Building 5 Area, PR

```
22)  Hexachlorobenzene
           0.191 0.190 0.190 0.190 0.186 0.186 0.187 0.186 0.196        0.189    1.67
23)  Pentachlorophenol
           0.133 0.135 0.123 0.099 0.084 0.077             0.134        0.112   22.28
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.00592 + 0.13565 *A + -0.00012 *A^2

24)  Phenanthrene
           0.997 0.998 0.996 0.962 0.938 0.921 0.981 1.013 1.014        0.980    3.36
25)  Anthracene
           0.976 0.941 0.912 0.863 0.787 0.773 0.758 0.766 1.007        0.865   11.30
26)  Fluoranthene
           1.111 1.150 1.092 1.112 1.098 1.149 1.440 1.808 1.123        1.231   19.61
27)  Pyrene
           1.134 1.180 1.158 1.109 1.065 1.078 1.108 1.287 1.178        1.144    5.89
28)  Terphenyl-d14
           0.578 0.563 0.590 0.618 0.600 0.611             0.501        0.580    6.83
29)  Benzo[a]anthracene
           1.009 1.068 1.029 0.987 0.960 1.043 1.216 1.538 1.019        1.097   16.49
30)  Chrysene
           1.077 1.074 1.014 1.032 1.014 1.069             1.077        1.051    2.84

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
           1.285 1.344 1.281 1.288 1.257 1.317 1.607       1.269        1.331    8.62
33)  Benzo[k]fluoranthene
           1.212 1.238 1.139 1.169 1.261 1.246 1.449 1.113 1.259        1.232    7.92
34)  Benzo[a]pyrene
           1.170 1.217 1.162 1.160 1.081 1.465 1.220 1.504 1.177        1.240   11.69
35)  Indeno[1,2,3-cd]pyrene
           1.291 1.342 1.265 1.286 1.256 1.194 1.201 1.184 1.320        1.260    4.48
36)  Dibenz[a,h]anthracene
           1.076 1.073 0.976 1.048 1.030 0.956 0.902 1.177 1.111        1.039    8.10
37)  Benzo[g,h,i]perylene
           1.122 1.143 1.083 1.090 1.091 1.073 1.041 1.074 1.135        1.095    3.02
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3M2855SIM.M        Fri Apr 22 09:08:14 2016   RPT1
```

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2855-ICV2855
Lab FileID: 3M60772.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2855\3m60772.D          Vial: 11
Acq On    : 21 Apr 2016   7:27 pm                    Operator: linseyk
Sample    : icv2855-1.0                              Inst    : MS3M
Misc      : op93052a,e3m2855                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 22 08:34:22 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	117	0.00	10.64
5		Phenol	0.893	0.813	9.0	102	0.01	6.13
14	I	Fluorene-d10	1.000	1.000	0.0	119	0.00	13.64
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	3.836	23.3	86	0.00	13.85
21	I	Fluoranthene-d10	1.000	1.000	0.0	111	0.00	17.84
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	4.338	13.2	93	0.00	15.20

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 3m60763a.D M3M2855SIM.M       Fri Apr 22 09:06:50 2016   RPT1
```

Initial Calibration Verification

Job Number: JC19423 **Sample:** E3M2855-ICV2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60773.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2855\3m60773.D          Vial: 12
Acq On    : 21 Apr 2016   8:00 pm                    Operator: linseyk
Sample    : icv2855-1.0                              Inst    : MS3M
Misc      : op93052a,e3m2855                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 22 08:34:22 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	95	0.00	10.64
2	t	1,4-dioxane	0.207	0.220	-6.3	101	0.02	2.32
6	t	bis(2-Chloroethyl)ether	0.675	0.672	0.4	91	0.00	6.29
8	t	Nitrobenzene	0.836	0.685	18.1	76	0.00	7.76
9	t	Naphthalene	2.223	2.523	-13.5	110	0.00	9.14
10	t	Hexachlorobutadiene	0.387	0.431	-11.4	102	0.00	9.42
11	t	2-Methylnaphthalene	1.158	1.207	-4.2	95	0.00	10.52
14	I	Fluorene-d10	1.000	1.000	0.0	91	0.00	13.64
16	t	Acenaphthylene	1.385	1.474	-6.4	87	0.00	12.29
17	t	Acenaphthene	0.925	1.076	-16.3	99	0.00	12.65
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.110	1.199	-8.0	92	0.00	13.68
21	I	Fluoranthene-d10	1.000	1.000	0.0	83	0.00	17.84
22	t	Hexachlorobenzene	0.189	0.213	-12.7	93	0.00	14.78
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.980	1.137	-16.0	94	0.00	15.60
25	t	Anthracene	0.865	0.996	-15.1	88	0.00	15.71
26	t	Fluoranthene	1.231	1.254	-1.9	90	0.00	17.87
27	t	Pyrene	1.144	1.234	-7.9	87	0.00	18.26
29	t	Benzo[a]anthracene	1.097	1.218	-11.0	94	0.01	20.36
30	t	Chrysene	1.051	1.074	-2.2	83	0.00	20.41
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	77	0.00	22.45
32	t	Benzo[b]fluoranthene	1.331	1.246	6.4	71	0.00	22.02
33	t	Benzo[k]fluoranthene	1.232	1.383	-12.3	85	0.00	22.06
34	t	Benzo[a]pyrene	1.240	1.197	3.5	75	0.00	22.46
35	t	Indeno[1,2,3-cd]pyrene	1.260	1.312	-4.1	75	0.00	23.96
36	t	Dibenz[a,h]anthracene	1.039	1.040	-0.1	74	0.00	24.02
37	t	Benzo[g,h,i]perylene	1.095	1.148	-4.8	77	0.00	24.36

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 3m60763a.D M3M2855SIM.M       Fri Apr 22 09:06:52 2016   RPT1
```

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2855-ICV2855
Lab FileID: 3M60774.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2855\3m60774.D          Vial: 13
Acq On    : 21 Apr 2016   8:35 pm                    Operator: linseyk
Sample    : icv2855-1.0                              Inst    : MS3M
Misc      : op93052a,e3m2855                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 22 08:34:22 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1-Methylnaphthalene-d10	1.000	1.000	0.0	108	0.00	10.64
12 t	1-Methylnaphthalene	1.559	1.488	4.6	115	0.00	10.70
13	Hexachlorocyclopentadiene	0.308	0.322	-4.6	98	0.00	10.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m60763a.D M3M2855SIM.M Fri Apr 22 09:07:18 2016 RPT1

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3M2868-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60993.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2868\3m60993.D          Vial: 2
Acq On    :  2 May 2016  12:57 pm                    Operator: linseyk
Sample    : cc2855-1.0                               Inst    : MS3M
Misc      : op93422a,e3m2868                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 28 10:59:02 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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	1-Methylnaphthalene-d10	1.000	1.000	0.0	91	-0.13	10.49
2	t	1,4-dioxane	0.207	0.193	6.8	84	-0.06	2.19
3	S	2-Fluorophenol	0.500	0.448	10.4	80	-0.11	4.40
4	S	Phenol-d5	0.828	0.742	10.4	79	-0.09	6.00
5		Phenol	0.893	0.788	11.8	77	-0.08	6.02
6	t	bis(2-Chloroethyl)ether	0.675	0.564	16.4	73	-0.08	6.16
7	S	Nitrobenzene-d5	0.770	0.616	20.0#	70	-0.12	7.59
8	t	Nitrobenzene	0.836	0.742	11.2	79	-0.12	7.62
9	t	Naphthalene	2.223	1.845	17.0	77	-0.12	9.00
10	t	Hexachlorobutadiene	0.387	0.374	3.4	85	-0.12	9.28
11	t	2-Methylnaphthalene	1.158	1.251	-8.0	95	-0.13	10.36
12	t	1-Methylnaphthalene	1.559	1.269	18.6	83	-0.13	10.55
13		Hexachlorocyclopentadiene	0.308	0.270	12.3	69	-0.11	10.71
14	I	Fluorene-d10	1.000	1.000	0.0	84	-0.16	13.49
15	S	2-Fluorobiphenyl	1.099	1.001	8.9	76	-0.14	11.16
16	t	Acenaphthylene	1.385	1.381	0.3	76	-0.16	12.13
17	t	Acenaphthene	0.925	0.892	3.6	76	-0.16	12.49
		----------	True	Calc.	% Drift		----------	
18	t	4,6-dinitro-2-methylpheno	5.000	4.779	4.4	80	-0.14	13.71
		----------	AvgRF	CCRF	% Dev		----------	
19	t	Fluorene	1.110	1.091	1.7	77	-0.14	13.54
20	S	2,4,6-Tribromophenol	0.125	0.125	0.0	80	-0.14	14.03
21	I	Fluoranthene-d10	1.000	1.000	0.0	81	-0.16	17.70
22	t	Hexachlorobenzene	0.189	0.182	3.7	78	-0.17	14.62
		----------	True	Calc.	% Drift		----------	
23	t	Pentachlorophenol	5.000	4.650	7.0	73	-0.16	15.06
		----------	AvgRF	CCRF	% Dev		----------	
24	t	Phenanthrene	0.980	0.934	4.7	76	-0.17	15.44
25	t	Anthracene	0.865	0.893	-3.2	77	-0.17	15.55
26	t	Fluoranthene	1.231	1.037	15.8	73	-0.16	17.73
27	t	Pyrene	1.144	1.096	4.2	76	-0.16	18.12
28	S	Terphenyl-d14	0.580	0.538	7.2	78	-0.16	18.50
29	t	Benzo[a]anthracene	1.097	0.995	9.3	76	-0.16	20.20
30	t	Chrysene	1.051	1.006	4.3	76	-0.16	20.27
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	81	-0.16	22.29

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3M2868-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60993.D
Project: BMSMC, Building 5 Area, PR

32	t	Benzo[b]fluoranthene	1.331	1.255	5.7	76	-0.14	21.87
33	t	Benzo[k]fluoranthene	1.232	1.128	8.4	74	-0.14	21.92
34	t	Benzo[a]pyrene	1.240	1.130	8.9	76	-0.14	22.32
35	t	Indeno[1,2,3-cd]pyrene	1.260	1.301	-3.3	79	-0.16	23.81
36	t	Dibenz[a,h]anthracene	1.039	1.120	-7.8	85	-0.18	23.84
37	t	Benzo[g,h,i]perylene	1.095	1.134	-3.6	81	-0.20	24.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m60763a.D M3M2855SIM.M Mon May 02 15:11:53 2016 RPT1

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3M2872-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61091.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2872\3m61091.D          Vial: 2
Acq On    :  5 May 2016  12:08 pm                    Operator: linseyk
Sample    : cc2855-1                                 Inst    : MS3M
Misc      : op93609a,e3m2872                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu May 05 15:37:59 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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	1-Methylnaphthalene-d10	1.000	1.000	0.0	69	-0.17	10.45
2	t	1,4-dioxane	0.207	0.205	1.0	68	-0.03	2.17
3	S	2-Fluorophenol	0.500	0.561	-12.2	76	-0.12	4.38
4	S	Phenol-d5	0.828	0.895	-8.1	72	-0.10	5.99
5		Phenol	0.893	0.921	-3.1	68	-0.09	6.01
6	t	bis(2-Chloroethyl)ether	0.675	0.661	2.1	64	-0.07	6.13
7	S	Nitrobenzene-d5	0.770	0.845	-9.7	72	-0.14	7.57
8	t	Nitrobenzene	0.836	0.824	1.4	66	-0.14	7.61
9	t	Naphthalene	2.223	2.440	-9.8	76	0.00	8.96
10	t	Hexachlorobutadiene	0.387	0.412	-6.5	70	-0.16	9.24
11	t	2-Methylnaphthalene	1.158	1.190	-2.8	68	-0.15	10.34
12	t	1-Methylnaphthalene	1.559	1.336	14.3	65	-0.15	10.53
13		Hexachlorocyclopentadiene	0.308	0.399	-29.5#	77	-0.15	10.67
14	I	Fluorene-d10	1.000	1.000	0.0	75	-0.20	13.45
15	S	2-Fluorobiphenyl	1.099	1.047	4.7	71	-0.17	11.13
16	t	Acenaphthylene	1.385	1.366	1.4	67	-0.19	12.10
17	t	Acenaphthene	0.925	0.880	4.9	67	-0.19	12.46
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	4.968	0.6	75	-0.18	13.67
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.110	1.105	0.5	70	-0.18	13.51
20	S	2,4,6-Tribromophenol	0.125	0.118	5.6	68	-0.18	14.00
21	I	Fluoranthene-d10	1.000	1.000	0.0	73	-0.19	17.67
22	t	Hexachlorobenzene	0.189	0.184	2.6	71	-0.20	14.59
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	4.341	13.2	61	-0.19	15.03
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.980	0.926	5.5	68	-0.03	15.41
25	t	Anthracene	0.865	0.883	-2.1	68	-0.20	15.52
26	t	Fluoranthene	1.231	1.023	16.9	65	-0.19	17.70
27	t	Pyrene	1.144	1.079	5.7	67	-0.19	18.09
28	S	Terphenyl-d14	0.580	0.573	1.2	74	-0.19	18.47
29	t	Benzo[a]anthracene	1.097	0.948	13.6	65	-0.02	20.17
30	t	Chrysene	1.051	1.006	4.3	68	-0.27	20.23
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	75	-0.02	22.27

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3M2872-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61091.D
Project: BMSMC, Building 5 Area, PR

32	t	Benzo[b]fluoranthene	1.331	1.398	-5.0	78	-0.02	21.84
33	t	Benzo[k]fluoranthene	1.232	0.902	26.8#	55	-0.02	21.89
34	t	Benzo[a]pyrene	1.240	1.071	13.6	66	-0.16	22.30
35	t	Indeno[1,2,3-cd]pyrene	1.260	1.281	-1.7	72	-0.02	23.77
36	t	Dibenz[a,h]anthracene	1.039	0.914	12.0	64	-0.02	23.81
37	t	Benzo[g,h,i]perylene	1.095	1.069	2.4	70	-0.04	24.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m60763a.D M3M2855SIM.M Fri May 06 08:53:46 2016 RPT1

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3M2874-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61121.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2874\3m61121.D          Vial: 2
Acq On    :  6 May 2016   9:29 am                    Operator: linseyk
Sample    : cc2855-1                                 Inst    : MS3M
Misc      : op93629a,e3m2874                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri May 06 14:17:24 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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	1-Methylnaphthalene-d10	1.000	1.000	0.0	66	0.00	10.43
2	t	1,4-dioxane	0.207	0.206	0.5	65	-0.10	2.16
3	S	2-Fluorophenol	0.500	0.490	2.0	64	-0.06	4.37
4	S	Phenol-d5	0.828	0.788	4.8	61	0.00	5.98
5		Phenol	0.893	0.822	8.0	58	0.00	5.99
6	t	bis(2-Chloroethyl)ether	0.675	0.582	13.8	54	0.02	6.11
7	S	Nitrobenzene-d5	0.770	0.686	10.9	56	-0.02	7.55
8	t	Nitrobenzene	0.836	0.695	16.9	53	-0.04	7.57
9	t	Naphthalene	2.223	2.052	7.7	62	0.16	8.94
10	t	Hexachlorobutadiene	0.387	0.403	-4.1	66	0.00	9.23
11	t	2-Methylnaphthalene	1.158	1.104	4.7	61	0.00	10.30
12	t	1-Methylnaphthalene	1.559	1.145	26.6#	54	0.00	10.49
13		Hexachlorocyclopentadiene	0.308	0.279	9.4	52	0.02	10.65
14	I	Fluorene-d10	1.000	1.000	0.0	66	0.00	13.43
15	S	2-Fluorobiphenyl	1.099	1.024	6.8	61	-0.03	11.10
16	t	Acenaphthylene	1.385	1.289	6.9	55	-0.01	12.09
17	t	Acenaphthene	0.925	0.876	5.3	59	0.00	12.44
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	4.784	4.3	63	0.02	13.66
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.110	1.028	7.4	57	0.02	13.49
20	S	2,4,6-Tribromophenol	0.125	0.125	0.0	63	0.03	13.98
21	I	Fluoranthene-d10	1.000	1.000	0.0	63	0.00	17.64
22	t	Hexachlorobenzene	0.189	0.183	3.2	61	-0.05	14.56
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	4.050	19.0	49	-0.01	15.01
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.980	0.931	5.0	59	0.00	15.40
25	t	Anthracene	0.865	0.839	3.0	56	0.00	15.49
26	t	Fluoranthene	1.231	1.085	11.9	59	0.00	17.67
27	t	Pyrene	1.144	1.046	8.6	56	0.00	18.07
28	S	Terphenyl-d14	0.580	0.618	-6.6	69	0.02	18.46
29	t	Benzo[a]anthracene	1.097	0.948	13.6	56	0.22	20.16
30	t	Chrysene	1.051	0.980	6.8	57	-0.03	20.22
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	67	0.00	22.24

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E3M2874-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61121.D
Project: BMSMC, Building 5 Area, PR

32	t	Benzo[b]fluoranthene	1.331	1.227	7.8	61	0.01	21.83
33	t	Benzo[k]fluoranthene	1.232	1.124	8.8	61	0.01	21.87
34	t	Benzo[a]pyrene	1.240	1.099	11.4	60	-0.14	22.27
35	t	Indeno[1,2,3-cd]pyrene	1.260	1.308	-3.8	65	0.01	23.75
36	t	Dibenz[a,h]anthracene	1.039	0.983	5.4	61	0.01	23.79
37	t	Benzo[g,h,i]perylene	1.095	1.131	-3.3	66	0.00	24.11

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m60763a.D M3M2855SIM.M Fri May 06 14:53:31 2016 RPT1

Initial Calibration Summary

Job Number: JC19423 **Sample:** E5P1382-ICC1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27321.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS5P

Method : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Calibration Files
2 =5p27325.D 5 =5p27324.D 25 =5p27322.D 80 =5p27320.D
100 =5p27319.D 50 =5p27321.D 1 =5p27326.D 10 =5p27323.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.489	0.492	0.458	0.446	0.419	0.450	0.540	0.458	0.469	7.88
3) Pyridine	0.943	1.037	1.058	1.065	1.016	1.062	1.002	1.078	1.033	4.32
4) N-Nitrosodim	0.550	0.572	0.604	0.612	0.585	0.599	0.502	0.607	0.579	6.44
5) 2-Fluorophen	1.189	1.279	1.225	1.218	1.204	1.234	1.204	1.255	1.226	2.41
6) Indene	2.299	2.422	2.178	1.990	1.978	2.079	2.282	2.280	2.189	7.32
7) Cumene	3.138	3.119	2.983	2.707	2.628	2.798	3.152	3.088	2.952	7.14
8) Phenol-d5	1.395	1.441	1.415	1.374	1.390	1.390	1.275	1.461	1.393	3.98
9) Phenol	1.482	1.506	1.444	1.397	1.400	1.406	1.382	1.503	1.440	3.52
10) Aniline	1.829	1.799	1.462	1.315	1.280	1.361	1.807	1.632	1.561	14.99
11) bis(2-Chloro	1.123	1.083	1.054	1.012	1.019	1.049	1.109	1.099	1.069	3.88
12) 2-Chlorophen	1.423	1.486	1.395	1.321	1.312	1.340	1.408	1.405	1.386	4.23
13) Decane	0.995	0.975	0.912	0.846	0.829	0.876	0.967	0.941	0.918	6.77
14) 1,3-Dichloro	1.622	1.662	1.536	1.425	1.402	1.492	1.596	1.572	1.538	6.02
15) 1,4-Dichloro	1.663	1.667	1.543	1.435	1.400	1.474	1.644	1.585	1.551	6.80
16) Benzyl alcoh	0.792	0.832	0.806	0.771	0.775	0.796	0.776	0.803	0.794	2.55
17) 1,2-Dichloro	1.561	1.591	1.443	1.351	1.318	1.391	1.617	1.523	1.474	7.74
18) Acetophenone	1.883	1.885	1.670	1.538	1.518	1.592	1.870	1.795	1.719	9.20
19) 2-Methylphen	1.017	1.157	1.084	0.984	0.990	1.038	1.044	1.130	1.056	5.99
20) 2,2'-oxybis(	1.289	1.288	1.187	1.177	1.188	1.191	1.289	1.214	1.228	4.19
21) 3&4-Methylph	1.156	1.183	1.156	1.063	1.051	1.107	1.088	1.177	1.123	4.63
22) n-Nitroso-di	0.800	0.812	0.727	0.717	0.731	0.713	0.816	0.805	0.765	6.09
23) Hexachloroet	0.499	0.530	0.511	0.479	0.468	0.496	0.501	0.515	0.500	3.97
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.300	0.323	0.307	0.299	0.296	0.301	0.288	0.313	0.304	3.56
26) Nitrobenzene	0.319	0.319	0.300	0.288	0.283	0.292	0.279	0.314	0.299	5.42
27) Quinoline	0.694	0.728	0.705	0.689	0.681	0.691	0.699	0.724	0.701	2.41
28) Isophorone	0.533	0.557	0.535	0.501	0.489	0.516	0.505	0.547	0.523	4.58
29) 2-Nitropheno	0.177	0.195	0.200	0.189	0.180	0.193	0.173	0.195	0.188	5.17
30) 2,4-Dimethyl	0.277	0.288	0.298	0.316	0.306	0.310	0.275	0.285	0.294	5.24
31) Benzoic acid		0.183	0.248	0.277	0.264	0.263		0.210	0.241	15.20
32) bis(2-Chloro	0.345	0.365	0.342	0.328	0.318	0.333	0.343	0.358	0.342	4.52
33) 2,4-Dichloro	0.273	0.306	0.294	0.280	0.271	0.287	0.272	0.298	0.285	4.67
34) 2,6-Dichloro	0.275	0.300	0.284	0.266	0.260	0.273	0.283	0.301	0.280	5.27
35) 1,3,5-Trichl	0.349	0.365	0.331	0.294	0.274	0.310	0.355	0.348	0.328	9.84
36) 1,2,4-Trichl	0.334	0.352	0.326	0.301	0.284	0.309	0.321	0.336	0.321	6.72
37) 1,2,3-Trichl	0.332	0.350	0.310	0.292	0.279	0.300	0.337	0.327	0.316	7.74
38) Naphthalene	1.072	1.111	1.016	0.919	0.878	0.965	1.094	1.053	1.014	8.41
39) 4-Chloroanil	0.447	0.474	0.429	0.375	0.360	0.404	0.449	0.457	0.424	9.60
40) 2,3-Dichloro	0.372	0.381	0.359	0.332	0.322	0.344	0.361	0.369	0.355	5.81
41) Caprolactam	0.098	0.113	0.121	0.123	0.123	0.120	0.096	0.118	0.114	9.73
42) Hexachlorobu	0.161	0.182	0.164	0.157	0.145	0.160	0.182	0.169	0.165	7.57
43) 4-Chloro-3-m	0.284	0.329	0.312	0.299	0.296	0.303	0.303	0.310	0.304	4.33
44) 2-Methylnaph	0.616	0.631	0.594	0.533	0.516	0.564	0.608	0.614	0.585	7.17
45) 1-Methylnaph	0.652	0.651	0.615	0.557	0.535	0.580	0.628	0.638	0.607	7.33

Initial Calibration Summary

Job Number: JC19423 **Sample:** E5P1382-ICC1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27321.D
Project: BMSMC, Building 5 Area, PR

```
46) Dimethylnaph 0.669 0.679 0.644 0.594 0.577 0.614 0.659 0.655 0.637   5.83

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.178 0.235 0.279 0.275 0.258 0.279       0.250 0.251  14.32
49) 2,4,6-Trichl 0.330 0.351 0.356 0.329 0.316 0.343 0.330 0.372 0.341   5.32
50) 2,4,5-Trichl 0.346 0.392 0.378 0.375 0.354 0.376 0.342 0.379 0.368   4.93
51) 2-Fluorobiph 1.360 1.378 1.290 1.173 1.122 1.219 1.314 1.331 1.274   7.24
52) 2-Chloronaph 1.198 1.229 1.135 1.023 0.986 1.083 1.181 1.182 1.127   7.78
53) Biphenyl     1.590 1.568 1.468 1.311 1.238 1.399 1.545 1.559 1.460   8.99
54) 2-Nitroanili 0.267 0.294 0.298 0.296 0.287 0.292 0.239 0.294 0.283   7.25
55) Dimethylphth 1.397 1.446 1.350 1.252 1.190 1.304 1.374 1.375 1.336   6.22
56) Acenaphthyle 1.869 1.888 1.843 1.671 1.587 1.756 1.800 1.915 1.791   6.37
57) 2,6-Dinitrot 0.230 0.282 0.292 0.299 0.287 0.297 0.232 0.280 0.275  10.13
58) 3-Nitroanili 0.267 0.327 0.346 0.343 0.337 0.343 0.254 0.343 0.320  11.71
59) Acenaphthene 1.206 1.252 1.165 1.036 0.981 1.092 1.228 1.202 1.145   8.56
60) 2,4-Dinitrop 0.051 0.087 0.150 0.185 0.176 0.171       0.115 0.134  37.91
         ----- Quadratic regression -----                Coefficient =  0.9980
              Response Ratio = -0.02660 + 0.18358 *A + 0.00025 *A^2

61) 4-Nitropheno 0.123 0.161 0.173 0.178 0.170 0.171       0.161 0.162  11.34
62) Dibenzofuran 1.717 1.723 1.572 1.387 1.278 1.461 1.677 1.658 1.559  10.68
63) 2,4-Dinitrot 0.311 0.398 0.412 0.380 0.357 0.398 0.273 0.410 0.368  13.81
64) 2,3,4,6-Tetr 0.260 0.298 0.308 0.302 0.288 0.303 0.256 0.306 0.290   7.17
65) Diethylphtha 1.427 1.471 1.372 1.303 1.225 1.327 1.344 1.449 1.365   6.02
66) Fluorene     1.339 1.418 1.326 1.188 1.111 1.239 1.301 1.355 1.285   7.75
67) 4-Chlorophen 0.654 0.662 0.598 0.553 0.522 0.570 0.662 0.620 0.605   8.83
68) 4-Nitroanili 0.303 0.338 0.353 0.342 0.328 0.334 0.233 0.355 0.323  12.31

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.095 0.130 0.149 0.140 0.143       0.110 0.128  16.64
71) n-Nitrosodip 0.609 0.618 0.584 0.540 0.503 0.569 0.591 0.599 0.577   6.68
72) 1,2-Diphenyl 0.627 0.637 0.608 0.563 0.537 0.595 0.582 0.634 0.598   5.99
73) 2,4,6-Tribro 0.084 0.091 0.102 0.108 0.099 0.107 0.086 0.094 0.097   9.48
74) 4-Bromopheny 0.231 0.233 0.221 0.214 0.194 0.219 0.231 0.229 0.222   5.81
75) Hexachlorobe 0.233 0.237 0.230 0.221 0.204 0.228 0.221 0.226 0.225   4.42
76) Pentachlorop 0.111 0.137 0.154 0.157 0.145 0.160 0.090 0.144 0.137  17.89
77) Phenanthrene 1.210 1.228 1.121 1.010 0.948 1.077 1.220 1.174 1.123   9.27
78) Anthracene   1.200 1.213 1.145 1.039 0.970 1.089 1.181 1.196 1.129   7.82
79) Carbazole    1.113 1.159 1.073 0.991 0.933 1.048 1.069 1.117 1.063   6.83
80) Di-n-butylph 1.336 1.482 1.426 1.265 1.187 1.368 1.244 1.469 1.347   8.07
81) Fluoranthene 1.218 1.266 1.186 1.077 1.010 1.142 1.168 1.222 1.161   7.21
82) Octadecane   0.377 0.400 0.383 0.348 0.334 0.371 0.359 0.392 0.370   5.99

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.287 1.332 1.259 1.150 1.084 1.186 1.234 1.319 1.231   7.00
85) Terphenyl-d1 0.830 0.834 0.825 0.772 0.731 0.797 0.802 0.839 0.804   4.62
86) Butylbenzylp 0.569 0.621 0.649 0.605 0.582 0.633 0.529 0.645 0.604   6.91
87) Butyl steara 0.223 0.262 0.264 0.250 0.245 0.256 0.204 0.263 0.246   8.85
88) Benzo[a]anth 1.146 1.168 1.121 1.020 0.958 1.069 1.208 1.159 1.106   7.60
89) 3,3'-Dichlor 0.376 0.420 0.444 0.401 0.373 0.425 0.359 0.445 0.405   8.27
90) Chrysene     1.176 1.191 1.153 1.065 1.016 1.107 1.158 1.170 1.130   5.45
91) bis(2-Ethylh 0.786 0.888 0.932 0.867 0.834 0.903 0.709 0.932 0.856   9.05

92) I   Perylene-d12          ----------------ISTD---------------------
93) Di-n-octylph 1.302 1.544 1.524 1.332 1.272 1.450 1.121 1.555 1.387  11.22
94) Benzo[b]fluo 1.212 1.271 1.185 1.069 1.066 1.119 1.176 1.239 1.167   6.52
95) Benzo[k]fluo 1.142 1.214 1.163 1.044 0.966 1.122 1.091 1.180 1.115   7.18
96) Benzo[a]pyre 1.059 1.137 1.077 0.995 0.936 1.040 1.025 1.099 1.046   5.98
97) Indeno[1,2,3 0.980 1.061 1.056 1.041 1.007 1.063 0.932 1.070 1.026   4.79
98) Dibenz(a,h)a 0.869 0.959 0.944 0.903 0.862 0.924 0.849 0.952 0.908   4.77
```

Initial Calibration Summary

Job Number: JC19423 **Sample:** E5P1382-ICC1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27321.D
Project: BMSMC, Building 5 Area, PR

```
 99) Dibenz[a,h]a 1.008 1.080 1.128 1.091 1.052 1.118 1.019 1.084 1.073   4.03
100) 7,12-Dimethy 0.427 0.438 0.502 0.475 0.457 0.491 0.341 0.462 0.449  11.20
101) Benzo[g,h,i] 1.076 1.134 1.122 1.089 1.053 1.105 1.040 1.105 1.090   2.98
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M5P1382.M         Tue Apr 12 09:02:01 2016   RPT1
```

Initial Calibration Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E5P1383-ICC1383
Lab FileID: 5P27330.D

```
                    Response Factor Report  MS5P

  Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
  Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
  Last Update  : Mon Apr 11 18:53:32 2016
  Response via : Initial Calibration

  Calibration Files
  2   =5p27334.D  5   =5p27333.D  25  =5p27331.D  80  =5p27329.D
  100 =5p27328.D  50  =5p27330.D  1   =5p27335.D  10  =5p27332.D

   Compound          2     5     25    80    100   50    1     10    Avg %RSD
  ---------------------------------------------------------------------------

102)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
103) Benzaldehyde 1.077 1.111 0.980 0.837 0.676 0.957 1.123 1.009 0.971  15.62

104)     Acenaphthene-d10a     ----------------ISTD---------------------
105) 1,2,4,5-Tetr 0.608 0.600 0.541 0.514 0.487 0.515 0.607 0.549 0.553   8.55

106)     Chrysene-d12a         ----------------ISTD---------------------
107) Benzidine    0.533 0.650 0.557 0.366       0.527 0.445 0.644 0.532  19.17
108) 1-chloroocta 0.233 0.243 0.232 0.221 0.216 0.224 0.223 0.231 0.228   3.74

109)     Phenanthrene-d10a     ----------------ISTD---------------------
110) o-terphenyl  0.599 0.600 0.536 0.499 0.485 0.527 0.596 0.551 0.549   8.31
111) Atrazine     0.111 0.108 0.104 0.102 0.099 0.103 0.096 0.102 0.103   4.51

112) I   Naphthalene-d8a       ----------------ISTD---------------------
113) Hydroquinone       0.234 0.293 0.307 0.301 0.309       0.256 0.284  10.97
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M5P1382.M         Mon Apr 11 18:54:38 2016   RPT1
```

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E5P1383-ICV1382
Lab FileID: 5P27336.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e5p1383\5p27336.D          Vial: 10
Acq On    : 11 Apr 2016   6:32 pm                    Operator: ariellec
Sample    : icv1382-50                               Inst    : MS5P
Misc      : op92466,e5p1383                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Mon Apr 11 18:53:32 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00	5.30
5	S	2-Fluorophenol	1.226	1.103	10.0	83	0.00	3.90
8	S	Phenol-d5	1.393	1.196	14.1	79	0.00	4.89
47	I	Acenaphthene-d10	1.000	1.000	0.0	89	0.00	8.89
51	S	2-Fluorobiphenyl	1.274	1.156	9.3	84	0.00	8.09
69	I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00	10.73
73	S	2,4,6-Tribromophenol	0.097	0.080	17.5	65	0.00	9.85
83	I	Chrysene-d12	1.000	1.000	0.0	82	0.00	14.53
85	S	Terphenyl-d14	0.804	0.739	8.1	76	0.00	12.99

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 5p27330a.D M5P1382.M        Mon Apr 11 18:59:13 2016   RPT1
```

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E5P1383-ICV1383
Lab FileID: 5P27337A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e5p1383\5p27337a.D        Vial: 11
Acq On    : 11 Apr 2016   6:59 pm                   Operator: ariellec
Sample    : icv1383-50                              Inst    : MS5P
Misc      : op92466,e5p1383                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Mon Apr 11 18:53:32 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
104	Acenaphthene-d10a	1.000	1.000	0.0	110	0.00	8.89
105	1,2,4,5-Tetrachlorobenzen	0.553	0.506	8.5	108	0.00	7.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27330a.D M5P1382.M Mon Apr 11 19:28:45 2016 RPT1

Initial Calibration Verification

Job Number: JC19423 **Sample:** E5P1383-ICV1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27337.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e5p1383\5p27337.D Vial: 11
Acq On : 11 Apr 2016 6:59 pm Operator: ariellec
Sample : icv1382-50 Inst : MS5P
Misc : op92466,e5p1383 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Mon Apr 11 18:53:32 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	5.30
4	t	N-Nitrosodimethylamine	0.579	0.499	13.8	75	0.00	2.61
11	t	bis(2-Chloroethyl)ether	1.069	0.969	9.4	83	0.00	5.02
14	t	1,3-Dichlorobenzene	1.538	1.364	11.3	82	0.00	5.24
15	t	1,4-Dichlorobenzene	1.551	1.380	11.0	84	0.00	5.32
17	t	1,2-Dichlorobenzene	1.474	1.340	9.1	86	0.00	5.49
20	t	2,2'-oxybis(1-Chloropropa	1.228	0.918	25.2	69	0.00	5.62
22	t	n-Nitroso-di-n-propylamin	0.765	0.659	13.9	83	0.00	5.77
23	t	Hexachloroethane	0.500	0.467	6.6	84	0.00	5.88
24	I	Naphthalene-d8	1.000	1.000	0.0	88	0.00	6.78
26	t	Nitrobenzene	0.299	0.262	12.4	79	0.00	5.96
28	t	Isophorone	0.523	0.497	5.0	85	0.00	6.24
32	t	bis(2-Chloroethoxy)methan	0.342	0.291	14.9	77	0.00	6.51
36	t	1,2,4-Trichlorobenzene	0.321	0.286	10.9	82	0.00	6.71
38	t	Naphthalene	1.014	0.925	8.8	84	0.00	6.80
42	t	Hexachlorobutadiene	0.165	0.160	3.0	88	0.00	6.95
47	I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00	8.89
48	t	Hexachlorocyclopentadiene	0.251	0.236	6.0	72	0.00	7.83
52	t	2-Chloronaphthalene	1.127	1.043	7.5	82	0.00	8.22
55	t	Dimethylphthalate	1.336	1.173	12.2	76	0.00	8.59
56	t	Acenaphthylene	1.791	1.601	10.6	78	0.00	8.72
57	t	2,6-Dinitrotoluene	0.275	0.247	10.2	71	0.00	8.66
59	t	Acenaphthene	1.145	1.055	7.9	82	0.00	8.93
63	t	2,4-Dinitrotoluene	0.368	0.329	10.6	70	0.00	9.14
65	t	Diethylphthalate	1.365	1.203	11.9	77	0.00	9.45
66	t	Fluorene	1.285	1.157	10.0	79	0.00	9.56
67	t	4-Chlorophenyl-phenylethe	0.605	0.516	14.7	77	0.00	9.58
69	I	Phenanthrene-d10	1.000	1.000	0.0	84	0.00	10.73
71	t	n-Nitrosodiphenylamine	0.577	0.525	9.0	78	0.00	9.72
72	t	1,2-Diphenylhydrazine	0.598	0.553	7.5	78	0.00	9.76
74	t	4-Bromophenyl-phenylether	0.222	0.202	9.0	78	0.00	10.18
75	t	Hexachlorobenzene	0.225	0.204	9.3	75	0.00	10.23
77	t	Phenanthrene	1.123	1.014	9.7	79	0.00	10.76
78	t	Anthracene	1.129	1.018	9.8	79	0.00	10.83
80	t	Di-n-butylphthalate	1.347	1.223	9.2	75	0.00	11.58
81	t	Fluoranthene	1.161	1.060	8.7	78	0.00	12.39
83	I	Chrysene-d12	1.000	1.000	0.0	80	0.00	14.54
84	t	Pyrene	1.231	1.179	4.2	80	0.00	12.71

Initial Calibration Verification

Job Number: JC19423 **Sample:** E5P1383-ICV1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27337.D
Project: BMSMC, Building 5 Area, PR

86	t	Butylbenzylphthalate	0.604	0.560	7.3	71	0.00	13.77
88	t	Benzo[a]anthracene	1.106	1.005	9.1	75	0.00	14.52
90	t	Chrysene	1.130	1.022	9.6	74	0.01	14.58
91	t	bis(2-Ethylhexyl)phthalat	0.856	0.811	5.3	72	0.00	14.69
92	I	Perylene-d12	1.000	1.000	0.0	78	0.00	16.60
93	t	Di-n-octylphthalate	1.387	1.329	4.2	71	0.00	15.67
94	t	Benzo[b]fluoranthene	1.167	1.041	10.8	72	0.01	16.09
95	t	Benzo[k]fluoranthene	1.115	1.060	4.9	73	0.01	16.13
96	t	Benzo[a]pyrene	1.046	1.001	4.3	75	0.00	16.52
97	t	Indeno[1,2,3-cd]pyrene	1.026	0.934	9.0	68	0.02	18.25
99	t	Dibenz[a,h]anthracene	1.073	0.985	8.2	68	0.02	18.30
101	t	Benzo[g,h,i]perylene	1.090	1.003	8.0	70	0.02	18.72

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27330a.D M5P1382.M Mon Apr 11 19:28:43 2016 RPT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E5P1383-ICV1382
Lab FileID: 5P27338.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e5p1383\5p27338.D          Vial: 12
Acq On    : 11 Apr 2016   7:26 pm                    Operator: ariellec
Sample    : icv1382-50                               Inst    : MS5P
Misc      : op92466,e5p1383                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Mon Apr 11 18:53:32 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00	5.30
2	t	1,4-Dioxane	0.469	0.429	8.5	82	0.01	2.35
6	t	Indene	2.189	2.215	-1.2	92	0.00	5.59
7	t	Cumene	2.952	2.856	3.3	88	0.00	4.44
13	t	Decane	0.918	0.882	3.9	87	0.00	5.13
18	t	Acetophenone	1.719	1.688	1.8	91	0.00	5.76
24	I	Naphthalene-d8	1.000	1.000	0.0	84	0.00	6.77
27	t	Quinoline	0.701	0.677	3.4	82	0.00	7.19
40	t	2,3-Dichloroaniline	0.355	0.320	9.9	78	0.00	7.97
41	t	Caprolactam	0.114	0.109	4.4	76	0.02	7.27
45	t	1-Methylnaphthalene	0.607	0.590	2.8	85	0.00	7.75
46	t	Dimethylnaphthalene	0.637	0.628	1.4	86	0.00	8.39
47	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00	8.89
53	t	Biphenyl	1.460	1.451	0.6	85	0.00	8.20
69	I	Phenanthrene-d10	1.000	1.000	0.0	79	0.00	10.73
82	t	Octadecane	0.370	0.374	-1.1	79	0.00	10.66
92	I	Perylene-d12	1.000	1.000	0.0	69	0.00	16.60
100	t	7,12-Dimethylbenz(a)anthr	0.449	0.541	-20.5	76	0.00	16.09

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27330a.D M5P1382.M Mon Apr 11 20:09:12 2016 RPT1

Initial Calibration Verification

Job Number: JC19423 **Sample:** E5P1383-ICV1383
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27338A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e5p1383\5p27338a.D        Vial: 12
Acq On    : 11 Apr 2016   7:26 pm                   Operator: ariellec
Sample    : icv1383-50                              Inst    : MS5P
Misc      : op92466,e5p1383                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Mon Apr 11 18:53:32 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	104	0.00	5.30
103	Benzaldehyde	0.971	0.986	-1.5	107	0.00	4.82
109	Phenanthrene-d10a	1.000	1.000	0.0	92	0.00	10.73
111	Atrazine	0.103	0.110	-6.8	98	0.00	10.41

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 5p27330a.D M5P1382.M        Mon Apr 11 20:09:15 2016   RPT1
```

Initial Calibration Verification

Job Number: JC19423 **Sample:** E5P1383-ICV1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27339.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e5p1383\5p27339.D          Vial: 13
Acq On    : 11 Apr 2016   7:52 pm                    Operator: ariellec
Sample    : icv1382-50                               Inst    : MS5P
Misc      : op92466,e5p1383                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Mon Apr 11 18:53:32 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00	5.30
9	t	Phenol	1.440	1.344	6.7	84	0.00	4.90
12	t	2-Chlorophenol	1.386	1.333	3.8	88	0.00	5.06
19	t	2-Methylphenol	1.056	1.084	-2.7	92	0.00	5.59
21	t	3&4-Methylphenol	1.123	1.131	-0.7	90	0.00	5.76
24	I	Naphthalene-d8	1.000	1.000	0.0	85	0.00	6.77
29	t	2-Nitrophenol	0.188	0.191	-1.6	84	0.00	6.33
30	t	2,4-Dimethylphenol	0.294	0.348	-18.4	95	0.00	6.39
31	t	Benzoic acid	0.241	0.234	2.9	75	0.09	6.52
33	t	2,4-Dichlorophenol	0.285	0.290	-1.8	86	0.00	6.61
34	t	2,6-Dichlorophenol	0.280	0.289	-3.2	90	0.00	6.87
43	t	4-Chloro-3-methylphenol	0.304	0.305	-0.3	85	0.00	7.46
47	I	Acenaphthene-d10	1.000	1.000	0.0	84	0.00	8.89
49	t	2,4,6-Trichlorophenol	0.341	0.357	-4.7	87	0.00	7.97
50	t	2,4,5-Trichlorophenol	0.368	0.362	1.6	81	0.00	8.01
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	39.045	21.9	60	0.00	8.97
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.162	0.178	-9.9	88	-0.02	9.05
64		2,3,4,6-Tetrachlorophenol	0.290	0.291	-0.3	81	0.00	9.29
69	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00	10.73
70	t	4,6-Dinitro-2-methylpheno	0.128	0.127	0.8	74	0.00	9.62
76	t	Pentachlorophenol	0.137	0.150	-9.5	78	0.00	10.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27330a.D M5P1382.M Mon Apr 11 20:36:02 2016 RPT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E5P1383-ICV1382
Lab FileID: 5P27340.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e5p1383\5p27340.D Vial: 14
Acq On : 11 Apr 2016 8:20 pm Operator: ariellec
Sample : icv1382-50 Inst : MS5P
Misc : op92466,e5p1383 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Mon Apr 11 18:53:32 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00	5.31
3	t	Pyridine	1.033	1.016	1.6	77	0.06	2.73
10		Aniline	1.561	1.747	-11.9	103	0.01	4.95
16	t	Benzyl alcohol	0.794	0.810	-2.0	82	0.01	5.47
24	I	Naphthalene-d8	1.000	1.000	0.0	81	0.00	6.78
39	t	4-Chloroaniline	0.424	0.428	-0.9	86	0.00	6.87
44	t	2-Methylnaphthalene	0.585	0.567	3.1	82	0.00	7.63
47	I	Acenaphthene-d10	1.000	1.000	0.0	81	0.00	8.89
54	t	2-Nitroaniline	0.283	0.281	0.7	78	0.00	8.35
58	t	3-Nitroaniline	0.320	0.299	6.6	70	0.00	8.85
62	t	Dibenzofuran	1.559	1.573	-0.9	87	0.00	9.14
68	t	4-Nitroaniline	0.323	0.303	6.2	73	0.00	9.59
69	I	Phenanthrene-d10	1.000	1.000	0.0	81	0.00	10.73
79	t	Carbazole	1.063	1.025	3.6	79	0.00	11.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27330a.D M5P1382.M Mon Apr 11 21:13:09 2016 RPT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E5P1383-ICV1382
Lab FileID: 5P27341.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e5p1383\5p27341.D          Vial: 15
Acq On    : 11 Apr 2016   8:47 pm                    Operator: ariellec
Sample    : icv1382-50                               Inst    : MS5P
Misc      : op92466,e5p1383                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Mon Apr 11 18:53:32 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	78	0.00	14.53
89 t	3,3'-Dichlorobenzidine	0.405	0.389	4.0	72	0.00	14.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27330a.D M5P1382.M Mon Apr 11 21:15:48 2016 RPT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E5P1383-ICV1383
Lab FileID: 5P27341A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e5p1383\5p27341a.D         Vial: 15
Acq On    : 11 Apr 2016   8:47 pm                    Operator: ariellec
Sample    : icv1383-50                               Inst    : MS5P
Misc      : op92466,e5p1383                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Mon Apr 11 18:53:32 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
106	Chrysene-d12a	1.000	1.000	0.0	86	0.00	14.53
107	Benzidine	0.532	0.755	-41.9#	123	0.00	12.62

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27330a.D M5P1382.M Mon Apr 11 21:15:50 2016 RPT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E5P1383-ICV1383
Lab FileID: 5P27342.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e5p1383\5p27342.D          Vial: 16
Acq On    : 11 Apr 2016   9:15 pm                    Operator: ariellec
Sample    : icv1383-50                               Inst    : MS5P
Misc      : op92466,e5p1383                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Mon Apr 11 18:53:32 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
112 I	Naphthalene-d8a	1.000	1.000	0.0	87	0.00	6.77
113	Hydroquinone	0.284	0.300	-5.6	84	-0.02	7.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27330a.D M5P1382.M Mon Apr 11 21:35:44 2016 RPT1

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E5P1414-CC1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27876.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1414\5p27876.D          Vial: 2
Acq On    :  2 May 2016  10:41 am                    Operator: ashleyn
Sample    : cc1382-50                                Inst    : MS5P
Misc      : op93450,e5p1414                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Mon May 02 14:23:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00	5.10
2	t	1,4-Dioxane	0.469	0.443	5.5	106	-0.04	2.18
3	t	Pyridine	1.033	0.932	9.8	94	-0.04	2.49
4	t	N-Nitrosodimethylamine	0.579	0.593	-2.4	106	-0.04	2.46
5	S	2-Fluorophenol	1.226	1.219	0.6	106	-0.02	3.77
6	t	Indene	2.189	2.382	-8.8	123	0.00	5.39
7	t	Cumene	2.952	3.154	-6.8	121	-0.01	4.23
8	S	Phenol-d5	1.393	1.425	-2.3	110	0.00	4.78
9	t	Phenol	1.440	1.634	-13.5	125	0.00	4.80
10		Aniline	1.561	1.273	18.4	101	0.00	4.77
11	t	bis(2-Chloroethyl)ether	1.069	1.090	-2.0	112	0.00	4.83
12	t	2-Chlorophenol	1.386	1.390	-0.3	112	0.00	4.90
13	t	Decane	0.918	1.582	-72.3#	194	0.00	4.91
14	t	1,3-Dichlorobenzene	1.538	1.563	-1.6	113	0.00	5.04
15	t	1,4-Dichlorobenzene	1.551	1.547	0.3	113	0.00	5.12
16	t	Benzyl alcohol	0.794	0.786	1.0	106	0.00	5.29
17	t	1,2-Dichlorobenzene	1.474	1.473	0.1	114	0.00	5.29
18	t	Acetophenone	1.719	1.807	-5.1	122	0.01	5.57
19	t	2-Methylphenol	1.056	1.122	-6.3	116	0.01	5.45
20	t	2,2'-oxybis(1-Chloropropa	1.228	1.998	-62.7#	180	0.00	5.42
21	t	3&4-Methylphenol	1.123	1.258	-12.0	122	0.02	5.63
22	t	n-Nitroso-di-n-propylamin	0.765	0.878	-14.8	132	0.01	5.58
23	t	Hexachloroethane	0.500	0.468	6.4	101	0.01	5.67
24	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00	6.57
25	S	Nitrobenzene-d5	0.304	0.317	-4.3	115	0.06	5.75
26	t	Nitrobenzene	0.299	0.320	-7.0	120	0.00	5.77
27	t	Quinoline	0.701	0.695	0.9	110	0.00	7.01
28	t	Isophorone	0.523	0.539	-3.1	114	-0.02	6.04
29	t	2-Nitrophenol	0.188	0.198	-5.3	112	0.00	6.14
30	t	2,4-Dimethylphenol	0.294	0.332	-12.9	117	0.00	6.23
31	t	Benzoic acid	0.241	0.235	2.5	98	0.10	6.41
32	t	bis(2-Chloroethoxy)methan	0.342	0.341	0.3	112	0.00	6.31
33	t	2,4-Dichlorophenol	0.285	0.283	0.7	108	0.00	6.44
34	t	2,6-Dichlorophenol	0.280	0.273	2.5	109	0.00	6.70
35		1,3,5-Trichlorobenzene	0.328	0.317	3.4	112	0.00	6.13
36	t	1,2,4-Trichlorobenzene	0.321	0.305	5.0	108	0.00	6.50
37		1,2,3-Trichlorobenzene	0.316	0.290	8.2	106	0.00	6.77
38	t	Naphthalene	1.014	1.047	-3.3	119	0.00	6.59
39	t	4-Chloroaniline	0.424	0.374	11.8	101	0.00	6.70
40	t	2,3-Dichloroaniline	0.355	0.340	4.2	108	0.01	7.78
41	t	Caprolactam	0.114	0.158	-38.6#	144	0.11	7.14

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E5P1414-CC1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27876.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.165	0.154	6.7	105	0.00	6.74
43	t	4-Chloro-3-methylphenol	0.304	0.328	-7.9	118	0.01	7.33
44	t	2-Methylnaphthalene	0.585	0.608	-3.9	118	0.00	7.42
45	t	1-Methylnaphthalene	0.607	0.632	-4.1	119	0.00	7.54
46	t	Dimethylnaphthalene	0.637	0.644	-1.1	115	0.02	8.17
47	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00	8.67
48	t	Hexachlorocyclopentadiene	0.251	0.253	-0.8	96	0.00	7.61
49	t	2,4,6-Trichlorophenol	0.341	0.333	2.3	103	0.00	7.79
50	t	2,4,5-Trichlorophenol	0.368	0.371	-0.8	104	-0.01	7.85
51	S	2-Fluorobiphenyl	1.274	1.274	0.0	110	0.00	7.88
52	t	2-Chloronaphthalene	1.127	1.103	2.1	107	0.00	8.01
53	t	Biphenyl	1.460	1.497	-2.5	113	0.00	7.99
54	t	2-Nitroaniline	0.283	0.375	-32.5#	136	0.00	8.17
55	t	Dimethylphthalate	1.336	1.356	-1.5	110	0.00	8.39
56	t	Acenaphthylene	1.791	1.888	-5.4	113	0.00	8.50
57	t	2,6-Dinitrotoluene	0.275	0.310	-12.7	110	0.00	8.47
58	t	3-Nitroaniline	0.320	0.319	0.3	98	0.00	8.68
59	t	Acenaphthene	1.145	1.178	-2.9	114	0.00	8.71
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	107.182	-7.2	115	0.05	8.80
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.162	0.190	-17.3	117	0.00	8.97
62	t	Dibenzofuran	1.559	1.593	-2.2	115	0.00	8.93
63	t	2,4-Dinitrotoluene	0.368	0.449	-22.0#	119	0.00	8.95
64		2,3,4,6-Tetrachlorophenol	0.290	0.284	2.1	99	0.00	9.10
65	t	Diethylphthalate	1.365	1.442	-5.6	115	0.00	9.25
66	t	Fluorene	1.285	1.328	-3.3	113	0.00	9.34
67	t	4-Chlorophenyl-phenylethe	0.605	0.593	2.0	110	0.00	9.35
68	t	4-Nitroaniline	0.323	0.341	-5.6	108	0.02	9.43
69	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00	10.50
70	t	4,6-Dinitro-2-methylpheno	0.128	0.145	-13.3	109	0.00	9.44
71	t	n-Nitrosodiphenylamine	0.577	0.600	-4.0	113	0.00	9.51
72	t	1,2-Diphenylhydrazine	0.598	0.681	-13.9	123	0.00	9.55
73	S	2,4,6-Tribromophenol	0.097	0.107	-10.3	107	0.00	9.64
74	t	4-Bromophenyl-phenylether	0.222	0.210	5.4	103	0.00	9.95
75	t	Hexachlorobenzene	0.225	0.223	0.9	105	0.00	9.99
76	t	Pentachlorophenol	0.137	0.132	3.6	89	0.00	10.28
77	t	Phenanthrene	1.123	1.121	0.2	112	0.00	10.52
78	t	Anthracene	1.129	1.146	-1.5	113	0.00	10.59
79	t	Carbazole	1.063	1.084	-2.0	111	0.00	10.83
80	t	Di-n-butylphthalate	1.347	1.506	-11.8	118	0.00	11.31
81	t	Fluoranthene	1.161	1.174	-1.1	110	0.00	12.13
82	t	Octadecane	0.370	0.598	-61.6#	173	0.00	10.38
83	I	Chrysene-d12	1.000	1.000	0.0	103	0.00	14.26
84	t	Pyrene	1.231	1.259	-2.3	110	-0.01	12.45
85	S	Terphenyl-d14	0.804	0.852	-6.0	110	-0.01	12.71
86	t	Butylbenzylphthalate	0.604	0.700	-15.9	114	0.00	13.48
87		Butyl stearate	0.246	0.428	-74.0#	172	0.00	13.59
88	t	Benzo[a]anthracene	1.106	1.137	-2.8	110	0.00	14.24
89	t	3,3'-Dichlorobenzidine	0.405	0.456	-12.6	111	0.00	14.26
90	t	Chrysene	1.130	1.143	-1.2	107	0.00	14.30
91	t	bis(2-Ethylhexyl)phthalat	0.856	1.006	-17.5	115	0.00	14.37
92	I	Perylene-d12	1.000	1.000	0.0	97	0.00	16.32
93	t	Di-n-octylphthalate	1.387	1.775	-28.0#	119	0.00	15.34

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E5P1414-CC1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27876.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[b]fluoranthene	1.167	1.269	-8.7	110	0.00	15.81
95	t	Benzo[k]fluoranthene	1.115	1.153	-3.4	99	0.00	15.84
96	t	Benzo[a]pyrene	1.046	1.097	-4.9	102	0.00	16.24
97	t	Indeno[1,2,3-cd]pyrene	1.026	1.208	-17.7	110	0.00	17.84
98	t	Dibenz(a,h)acridine	0.908	1.047	-15.3	110	0.00	17.49
99	t	Dibenz[a,h]anthracene	1.073	1.238	-15.4	107	0.00	17.88
100	t	7,12-Dimethylbenz(a)anthr	0.449	0.562	-25.2#	111	0.00	15.80
101	t	Benzo[g,h,i]perylene	1.090	1.228	-12.7	108	0.00	18.29

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27330a.D M5P1382.M Mon May 02 14:34:52 2016 RPT1

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E5P1414-CC1383
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27877.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1414\5p27877.D          Vial: 3
Acq On    :  2 May 2016  11:24 am                     Operator: ashleyn
Sample    : cc1383-50                                 Inst    : MS5P
Misc      : op93450,e5p1414                           Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Mon May 02 14:23:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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.
102		1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	144	0.00	5.10
103		Benzaldehyde	0.971	0.773	20.4#	116	-0.03	4.64
104		Acenaphthene-d10a	1.000	1.000	0.0	148	0.00	8.67
105		1,2,4,5-Tetrachlorobenzen	0.553	0.469	15.2	135	0.00	7.62
106		Chrysene-d12a	1.000	1.000	0.0	123	0.00	14.26
107		Benzidine	0.532	0.497	6.6	116	0.00	12.38
108	s	1-chlorooctadecane	0.228	0.409	-79.4#	225#	0.00	12.01
109		Phenanthrene-d10a	1.000	1.000	0.0	136	0.00	10.49
110	s	o-terphenyl	0.549	0.551	-0.4	142	-0.05	11.01
111		Atrazine	0.103	0.109	-5.8	144	0.00	10.19
112	I	Naphthalene-d8a	1.000	1.000	0.0	143	0.00	6.56
113		Hydroquinone	0.284	0.283	0.4	130	-0.07	7.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27330a.D M5P1382.M Mon May 02 14:34:54 2016 RPT1

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E5P1416-CC1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27902.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E5P1416\5p27902.D Vial: 2
Acq On : 3 May 2016 8:39 am Operator: ashleyd
Sample : cc1382-25 Inst : MS5P
Misc : op93450,e5p1416 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Tue May 03 08:59:50 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	118	0.00	5.29
2	t	1,4-Dioxane	0.469	0.429	8.5	110	0.06	2.35
3	t	Pyridine	1.033	0.956	7.5	106	0.05	2.68
4	t	N-Nitrosodimethylamine	0.579	0.568	1.9	111	0.05	2.64
5	S	2-Fluorophenol	1.226	1.197	2.4	115	0.03	3.96
6	t	Indene	2.189	2.409	-10.1	130	0.00	5.58
7	t	Cumene	2.952	3.179	-7.7	126	0.01	4.42
8	S	Phenol-d5	1.393	1.469	-5.5	122	0.00	4.96
9	t	Phenol	1.440	1.709	-18.7	139	0.00	4.98
10		Aniline	1.561	1.386	11.2	112	0.01	4.96
11	t	bis(2-Chloroethyl)ether	1.069	1.129	-5.6	126	0.00	5.01
12	t	2-Chlorophenol	1.386	1.440	-3.9	122	0.00	5.08
13	t	Decane	0.918	1.588	-73.0#	205#	0.00	5.09
14	t	1,3-Dichlorobenzene	1.538	1.581	-2.8	121	0.00	5.22
15	t	1,4-Dichlorobenzene	1.551	1.620	-4.4	124	0.00	5.31
16	t	Benzyl alcohol	0.794	0.815	-2.6	119	0.00	5.48
17	t	1,2-Dichlorobenzene	1.474	1.517	-2.9	124	0.00	5.48
18	t	Acetophenone	1.719	1.944	-13.1	137	0.00	5.76
19	t	2-Methylphenol	1.056	1.187	-12.4	129	0.00	5.63
20	t	2,2'-oxybis(1-Chloropropa	1.228	2.029	-65.2#	201#	-0.01	5.61
21	t	3&4-Methylphenol	1.123	1.282	-14.2	131	-0.01	5.81
22	t	n-Nitroso-di-n-propylamin	0.765	0.937	-22.5#	152	-0.01	5.76
23	t	Hexachloroethane	0.500	0.499	0.2	115	0.00	5.86
24	I	Naphthalene-d8	1.000	1.000	0.0	129	0.00	6.76
25	S	Nitrobenzene-d5	0.304	0.322	-5.9	135	0.09	5.94
26	t	Nitrobenzene	0.299	0.314	-5.0	135	0.02	5.96
27	t	Quinoline	0.701	0.722	-3.0	132	0.00	7.20
28	t	Isophorone	0.523	0.556	-6.3	134	0.00	6.23
29	t	2-Nitrophenol	0.188	0.194	-3.2	125	0.00	6.33
30	t	2,4-Dimethylphenol	0.294	0.324	-10.2	140	0.00	6.41
31	t	Benzoic acid	0.241	0.217	10.0	113	0.08	6.57
32	t	bis(2-Chloroethoxy)methan	0.342	0.336	1.8	126	0.00	6.50
33	t	2,4-Dichlorophenol	0.285	0.281	1.4	123	0.00	6.63
34	t	2,6-Dichlorophenol	0.280	0.283	-1.1	128	0.00	6.89
35		1,3,5-Trichlorobenzene	0.328	0.313	4.6	122	0.00	6.32
36	t	1,2,4-Trichlorobenzene	0.321	0.303	5.6	120	0.00	6.69
37		1,2,3-Trichlorobenzene	0.316	0.295	6.6	123	0.00	6.96
38	t	Naphthalene	1.014	1.069	-5.4	136	0.00	6.79
39	t	4-Chloroaniline	0.424	0.405	4.5	122	0.00	6.89
40	t	2,3-Dichloroaniline	0.355	0.356	-0.3	128	-0.02	7.98
41	t	Caprolactam	0.114	0.168	-47.4#	179	0.09	7.32

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E5P1416-CC1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27902.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.165	0.157	4.8	124	0.00	6.93
43	t	4-Chloro-3-methylphenol	0.304	0.347	-14.1	143	-0.02	7.52
44	t	2-Methylnaphthalene	0.585	0.647	-10.6	140	-0.01	7.62
45	t	1-Methylnaphthalene	0.607	0.666	-9.7	140	-0.01	7.73
46	t	Dimethylnaphthalene	0.637	0.679	-6.6	136	-0.02	8.37
47	I	Acenaphthene-d10	1.000	1.000	0.0	133	0.00	8.87
48	t	Hexachlorocyclopentadiene	0.251	0.239	4.8	114	0.00	7.80
49	t	2,4,6-Trichlorophenol	0.341	0.339	0.6	127	0.00	7.99
50	t	2,4,5-Trichlorophenol	0.368	0.343	6.8	121	0.00	8.04
51	S	2-Fluorobiphenyl	1.274	1.247	2.1	128	0.00	8.07
52	t	2-Chloronaphthalene	1.127	1.112	1.3	130	0.00	8.20
53	t	Biphenyl	1.460	1.483	-1.6	134	0.00	8.18
54	t	2-Nitroaniline	0.283	0.376	-32.9#	167	0.00	8.36
55	t	Dimethylphthalate	1.336	1.356	-1.5	133	0.00	8.58
56	t	Acenaphthylene	1.791	1.862	-4.0	134	0.00	8.70
57	t	2,6-Dinitrotoluene	0.275	0.301	-9.5	137	0.00	8.65
58	t	3-Nitroaniline	0.320	0.325	-1.6	125	0.00	8.87
59	t	Acenaphthene	1.145	1.193	-4.2	136	0.00	8.91
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	44.636	10.7	126	0.05	8.99
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.162	0.181	-11.7	139	-0.01	9.16
62	t	Dibenzofuran	1.559	1.592	-2.1	134	0.00	9.12
63	t	2,4-Dinitrotoluene	0.368	0.433	-17.7	139	0.00	9.14
64		2,3,4,6-Tetrachlorophenol	0.290	0.271	6.6	117	0.00	9.30
65	t	Diethylphthalate	1.365	1.463	-7.2	142	-0.02	9.43
66	t	Fluorene	1.285	1.344	-4.6	135	0.00	9.54
67	t	4-Chlorophenyl-phenylethe	0.605	0.592	2.1	131	0.00	9.55
68	t	4-Nitroaniline	0.323	0.339	-5.0	128	0.00	9.62
69	I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00	10.71
70	t	4,6-Dinitro-2-methylpheno	0.128	0.136	-6.3	134	0.00	9.63
71	t	n-Nitrosodiphenylamine	0.577	0.607	-5.2	133	0.00	9.71
72	t	1,2-Diphenylhydrazine	0.598	0.691	-15.6	146	0.00	9.74
73	S	2,4,6-Tribromophenol	0.097	0.109	-12.4	136	0.00	9.84
74	t	4-Bromophenyl-phenylether	0.222	0.222	0.0	129	0.00	10.14
75	t	Hexachlorobenzene	0.225	0.228	-1.3	127	0.00	10.20
76	t	Pentachlorophenol	0.137	0.132	3.6	110	0.00	10.49
77	t	Phenanthrene	1.123	1.159	-3.2	133	0.00	10.74
78	t	Anthracene	1.129	1.158	-2.6	130	0.00	10.81
79	t	Carbazole	1.063	1.119	-5.3	134	0.00	11.05
80	t	Di-n-butylphthalate	1.347	1.569	-16.5	141	-0.01	11.52
81	t	Fluoranthene	1.161	1.189	-2.4	129	0.00	12.36
82	t	Octadecane	0.370	0.607	-64.1#	204#	-0.02	10.57
83	I	Chrysene-d12	1.000	1.000	0.0	125	0.00	14.51
84	t	Pyrene	1.231	1.276	-3.7	127	0.00	12.69
85	S	Terphenyl-d14	0.804	0.871	-8.3	132	0.00	12.94
86	t	Butylbenzylphthalate	0.604	0.714	-18.2	138	0.00	13.71
87		Butyl stearate	0.246	0.431	-75.2#	205#	-0.01	13.81
88	t	Benzo[a]anthracene	1.106	1.155	-4.4	129	0.00	14.49
89	t	3,3'-Dichlorobenzidine	0.405	0.447	-10.4	126	-0.01	14.50
90	t	Chrysene	1.130	1.156	-2.3	126	0.00	14.55
91	t	bis(2-Ethylhexyl)phthalat	0.856	1.014	-18.5	136	-0.02	14.59
92	I	Perylene-d12	1.000	1.000	0.0	117	0.00	16.58
93	t	Di-n-octylphthalate	1.387	1.801	-29.8#	138	-0.02	15.56

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E5P1416-CC1382
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27902.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[b]fluoranthene	1.167	1.294	-10.9	127	0.00	16.06
95	t	Benzo[k]fluoranthene	1.115	1.169	-4.8	117	0.00	16.09
96	t	Benzo[a]pyrene	1.046	1.122	-7.3	121	0.00	16.50
97	t	Indeno[1,2,3-cd]pyrene	1.026	1.177	-14.7	130	0.00	18.21
98	t	Dibenz(a,h)acridine	0.908	1.073	-18.2	133	0.00	17.83
99	t	Dibenz[a,h]anthracene	1.073	1.258	-17.2	130	0.00	18.25
100	t	7,12-Dimethylbenz(a)anthr	0.449	0.539	-20.0	125	0.00	16.05
101	t	Benzo[g,h,i]perylene	1.090	1.217	-11.7	126	0.00	18.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p27331a.D M5P1382.M Tue May 03 12:24:41 2016 RPT1

Continuing Calibration Summary

Job Number: JC19423 **Sample:** E5P1416-CC1383
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P27903.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1416\5p27903.D          Vial: 3
Acq On    :  3 May 2016   9:05 am                    Operator: ashleyd
Sample    : cc1383-25                                Inst    : MS5P
Misc      : op93450,e5p1416                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1382.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Tue May 03 08:59:50 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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.
102		1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	143	0.00	5.29
103		Benzaldehyde	0.971	0.974	-0.3	142	-0.02	4.82
104		Acenaphthene-d10a	1.000	1.000	0.0	162	0.00	8.87
105		1,2,4,5-Tetrachlorobenzen	0.553	0.482	12.8	145	0.02	7.81
106		Chrysene-d12a	1.000	1.000	0.0	134	0.00	14.50
107		Benzidine	0.532	0.604	-13.5	145	0.02	12.61
108	s	1-chlorooctadecane	0.228	0.419	-83.8#	241#	0.00	12.22
109		Phenanthrene-d10a	1.000	1.000	0.0	144	0.00	10.70
110	s	o-terphenyl	0.549	0.574	-4.6	154	-0.06	11.23
111		Atrazine	0.103	0.106	-2.9	148	0.00	10.38
112	I	Naphthalene-d8a	1.000	1.000	0.0	148	0.00	6.76
113		Hydroquinone	0.284	0.287	-1.1	145	-0.10	7.36

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 5p27331a.D M5P1382.M        Tue May 03 12:24:43 2016   RPT1
```

Initial Calibration Summary

Job Number: JC19423 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration

Calibration Files
2 =F156057.D 5 =F156056.D 25 =F156054.D 80 =F156052.D
100 =F156051.D 50 =F156053.D 10 =F156055.D 1 =F156058.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.435	0.754	0.557	0.575	0.554	0.612	0.690	0.779	0.619	18.58
3) Pyridine	1.365	1.512	1.488	1.487	1.463	1.471	1.542	1.345	1.459	4.72
4) N-Nitrosodim	0.543	0.544	0.495	0.517	0.510	0.518	0.499	0.573	0.525	5.05
5) 2-Fluorophen	1.468	1.471	1.393	1.349	1.313	1.386	1.406	1.467	1.407	4.18
6) Indene	2.666	2.624	2.377	2.021	1.886	2.207	2.519	2.639	2.367	12.66
7) Cumene	3.433	3.411	3.202	2.915	2.701	3.053	3.298	3.427	3.180	8.47
8) Phenol-d5	1.803	1.781	1.689	1.611	1.551	1.667	1.761	1.822	1.711	5.68
9) Phenol	1.900	1.860	1.778	1.806	1.715	1.740	1.819	1.950	1.821	4.36
10) Aniline	2.277	2.212	1.926	1.735	1.611	1.803	2.109	2.271	1.993	13.03
11) bis(2-Chloro	1.382	1.395	1.284	1.231	1.184	1.273	1.336	1.395	1.310	6.07
12) 2-Chlorophen	1.593	1.585	1.471	1.360	1.308	1.430	1.522	1.612	1.485	7.60
13) Decane	1.432	1.362	1.270	1.113	1.067	1.177	1.318	1.482	1.278	11.67
14) 1,3-Dichloro	1.778	1.750	1.645	1.489	1.422	1.574	1.731	1.787	1.647	8.44
15) 1,4-Dichloro	1.757	1.794	1.643	1.495	1.421	1.564	1.736	1.736	1.643	8.31
16) Benzyl alcoh	1.001	0.995	0.930	0.879	0.857	0.917	0.984	1.012	0.947	6.30
17) 1,2-Dichloro	1.685	1.678	1.556	1.352	1.294	1.465	1.623	1.707	1.545	10.27
18) Acetophenone	2.011	2.022	1.799	1.511	1.427	1.643	1.941	1.967	1.790	13.16
19) 2-Methylphen	1.341	1.350	1.271	1.169	1.116	1.238	1.323	1.368	1.272	7.19
20) 2,2'-oxybis(	0.519	0.515	0.457	0.414	0.397	0.444	0.476	0.558	0.472	11.71
21) 3&4-Methylph	1.394	1.437	1.313	1.146	1.075	1.236	1.397	1.437	1.304	10.61
22) n-Nitroso-di	1.093	1.062	0.939	0.859	0.831	0.894	1.003	1.050	0.966	10.31
23) Hexachloroet	0.542	0.548	0.505	0.467	0.445	0.489	0.516	0.560	0.509	8.00
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.382	0.394	0.374	0.357	0.348	0.373	0.387	0.374	0.374	4.05
26) Nitrobenzene	0.398	0.419	0.397	0.372	0.356	0.390	0.411	0.388	0.391	5.14
27) Quinoline	0.814	0.815	0.776	0.728	0.694	0.750	0.806	0.802	0.773	5.81
28) Isophorone	0.695	0.714	0.677	0.616	0.588	0.648	0.701	0.705	0.668	6.90
29) 2-Nitropheno	0.205	0.219	0.210	0.186	0.177	0.200	0.217	0.210	0.203	7.26
30) 2,4-Dimethyl	0.317	0.325	0.320	0.323	0.312	0.330	0.322	0.308	0.320	2.22
31) Benzoic acid	0.238	0.266	0.282	0.304	0.269	0.296	0.273	0.211	0.267	11.38
32) bis(2-Chloro	0.458	0.456	0.418	0.381	0.364	0.400	0.440	0.452	0.421	8.62
33) 2,4-Dichloro	0.337	0.338	0.325	0.295	0.280	0.311	0.337	0.332	0.319	6.90
34) 2,6-Dichloro	0.337	0.336	0.309	0.264	0.247	0.286	0.328	0.345	0.307	12.01
35) 1,3,5-Trichl	0.373	0.382	0.340	0.279	0.265	0.311	0.362	0.377	0.336	13.70
36) 1,2,4-Trichl	0.357	0.355	0.333	0.295	0.277	0.318	0.349	0.356	0.330	9.34
37) 1,2,3-Trichl	0.361	0.353	0.324	0.286	0.270	0.313	0.338	0.361	0.326	10.48
38) Naphthalene	1.244	1.223	1.108	0.902	0.815	1.014	1.196	1.235	1.092	15.11
39) 4-Chloroanil	0.503	0.506	0.454	0.380	0.354	0.414	0.497	0.500	0.451	13.52
40) 2,3-Dichloro	0.426	0.411	0.376	0.304	0.284	0.332	0.413	0.430	0.372	15.57
41) Caprolactam	0.152	0.150	0.152	0.151	0.144	0.151	0.155	0.158	0.152	2.70
42) Hexachlorobu	0.178	0.165	0.160	0.137	0.128	0.148	0.167	0.167	0.156	11.01
43) 4-Chloro-3-m	0.317	0.341	0.316	0.299	0.283	0.309	0.328	0.314	0.313	5.66
44) 2-Methylnaph	0.684	0.678	0.621	0.539	0.508	0.582	0.663	0.653	0.616	10.80
45) 1-Methylnaph	0.696	0.700	0.639	0.552	0.524	0.602	0.680	0.679	0.634	10.71

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46) Dimethylnaph 0.704 0.711 0.655 0.561 0.526 0.611 0.686 0.685 0.642  10.79

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.282 0.297 0.293 0.246 0.228 0.268 0.299 0.260 0.271   9.49
49) 2,4,6-Trichl 0.393 0.378 0.339 0.281 0.259 0.313 0.371 0.382 0.339  14.82
50) 2,4,5-Trichl 0.398 0.405 0.378 0.353 0.334 0.357 0.384 0.381 0.374   6.38
51) 2-Fluorobiph 1.441 1.396 1.288 1.112 1.046 1.185 1.361 1.384 1.277  11.40
52) 2-Chloronaph 1.266 1.268 1.154 1.024 0.963 1.087 1.227 1.257 1.156  10.30
53) Biphenyl     1.656 1.637 1.515 1.274 1.190 1.381 1.585 1.636 1.484  12.18
54) 2-Nitroanili 0.328 0.346 0.335 0.331 0.317 0.334 0.340 0.289 0.328   5.41
55) Dimethylphth 1.390 1.383 1.309 1.191 1.117 1.234 1.355 1.370 1.293   7.86
56) Acenaphthyle 2.072 2.049 1.907 1.660 1.516 1.758 1.992 2.035 1.874  11.02
57) 2,6-Dinitrot 0.260 0.292 0.287 0.279 0.266 0.287 0.292 0.274 0.280   4.29
58) 3-Nitroanili 0.350 0.364 0.367 0.349 0.334 0.354 0.368 0.315 0.350   5.16
59) Acenaphthene 1.304 1.315 1.193 1.026 0.962 1.091 1.233 1.290 1.177  11.47
60) 2,4-Dinitrop 0.079 0.109 0.154 0.169 0.164 0.164 0.132 0.056 0.129  33.34
         ----- Quadratic regression -----                Coefficient =  0.9994
              Response Ratio = -0.01316 + 0.17125 *A + -0.00057 *A^2

61) 4-Nitropheno 0.152 0.164 0.172 0.176 0.169 0.169 0.163 0.151 0.164   5.39
62) Dibenzofuran 1.767 1.778 1.615 1.414 1.331 1.493 1.707 1.742 1.606  10.77
63) 2,4-Dinitrot 0.372 0.398 0.402 0.385 0.368 0.389 0.395 0.322 0.379   6.84
64) 2,3,4,6-Tetr 0.290 0.297 0.291 0.273 0.255 0.279 0.294 0.275 0.282   4.99
65) Diethylphtha 1.365 1.347 1.288 1.180 1.123 1.236 1.314 1.374 1.278   7.15
66) Fluorene     1.404 1.425 1.247 1.024 0.952 1.101 1.348 1.385 1.236  15.07
67) 4-Chlorophen 0.658 0.618 0.540 0.437 0.407 0.477 0.592 0.629 0.545  17.38
68) 4-Nitroanili 0.354 0.373 0.358 0.353 0.338 0.349 0.372 0.332 0.353   4.12

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.100 0.130 0.139 0.135 0.139 0.115       0.126  12.21
71) n-Nitrosodip 0.603 0.630 0.578 0.523 0.491 0.550 0.597 0.609 0.572   8.30
72) 1,2-Diphenyl 0.825 0.848 0.798 0.745 0.715 0.774 0.823 0.802 0.791   5.61
73) 2,4,6-Tribro 0.086 0.085 0.083 0.079 0.076 0.084 0.084 0.077 0.082   4.52
74) 4-Bromopheny 0.210 0.211 0.197 0.176 0.164 0.183 0.199 0.200 0.192   8.62
75) Hexachlorobe 0.198 0.203 0.182 0.167 0.157 0.176 0.192 0.194 0.184   8.80
76) Pentachlorop 0.123 0.132 0.133 0.115 0.108 0.123 0.129 0.105 0.121   8.73
77) Phenanthrene 1.263 1.260 1.159 1.018 0.949 1.069 1.225 1.264 1.151  10.79
78) Anthracene   1.250 1.272 1.164 1.030 0.963 1.096 1.211 1.229 1.152   9.69
79) Carbazole    1.162 1.163 1.109 0.982 0.930 1.024 1.142 1.127 1.080   8.25
80) Di-n-butylph 1.378 1.461 1.400 1.262 1.170 1.324 1.413 1.382 1.349   6.94
81) Fluoranthene 1.200 1.228 1.163 1.058 1.000 1.105 1.185 1.191 1.141   6.94
82) Octadecane   0.485 0.512 0.484 0.425 0.409 0.456 0.499 0.476 0.468   7.66

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.431 1.461 1.433 1.397 1.341 1.430 1.429 1.425 1.419   2.52
85) Terphenyl-d1 0.821 0.833 0.822 0.805 0.769 0.825 0.818 0.806 0.812   2.43
86) Butylbenzylp 0.660 0.694 0.706 0.733 0.705 0.726 0.684 0.665 0.697   3.81
87) Butyl steara 0.340 0.377 0.394 0.398 0.386 0.410 0.382 0.334 0.378   7.18
88) Benzo[a]anth 1.264 1.198 1.198 1.204 1.158 1.210 1.186 1.274 1.212   3.22
89) 3,3'-Dichlor 0.414 0.432 0.427 0.442 0.426 0.430 0.428 0.377 0.422   4.64
90) Chrysene     1.228 1.241 1.201 1.193 1.137 1.202 1.208 1.224 1.204   2.62
91) bis(2-Ethylh 0.915 0.943 0.999 1.006 0.983 1.020 0.962 0.896 0.966   4.60

92) I   Perylene-d12          ----------------ISTD---------------------
93) Di-n-octylph 1.708 1.820 1.853 1.727 1.647 1.823 1.823 1.621 1.753   5.09
94) Benzo[b]fluo 1.257 1.309 1.254 1.168 1.101 1.210 1.289 1.300 1.236   5.84
95) Benzo[k]fluo 1.257 1.247 1.241 1.125 1.084 1.186 1.265 1.275 1.210   5.89
96) Benzo[a]pyre 1.158 1.179 1.152 1.082 1.030 1.124 1.150 1.175 1.132   4.55
97) Indeno[1,2,3 1.063 1.065 1.077 1.016 0.969 1.047 1.071 1.045 1.044   3.43
98) Dibenz(a,h)a 0.885 0.929 0.931 0.877 0.838 0.901 0.930 0.883 0.897   3.65
```

Initial Calibration Summary

Job Number: JC19423 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

```
 99) Dibenz[a,h]a 1.026 1.044 1.043 1.012 0.945 1.014 1.061 0.937 1.010   4.54
100) 7,12-Dimethy 0.460 0.490 0.528 0.499 0.469 0.519 0.495 0.401 0.483   8.27
101) Benzo[g,h,i] 1.148 1.180 1.162 1.086 1.015 1.104 1.164 1.169 1.128   5.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MF6563.M          Wed Apr 06 08:34:20 2016   RT1
```

Initial Calibration Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICC6564
Lab FileID: F156062.D

Response Factor Report MSF

```
Method       : C:\MSDCHEM\1\METHODS\MF6564.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration

Calibration Files
2   =F156066.D  5   =F156065.D  25  =F156063.D  80  =F156061.D
100 =F156060.D  50  =F156062.D  10  =F156064.D  1   =F156067.D

 Compound          2     5     25    80    100   50    10    1     Avg %RSD
 ---------------------------------------------------------------------------
159) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
160) Benzaldehyde 1.314 1.266 1.115 0.952 0.817 1.052 1.157 1.340 1.126  16.20

161) I   Naphthalene-d8b       ----------------ISTD---------------------
162) Hydroquinone 0.268 0.329 0.362 0.349 0.321 0.376 0.354 0.252 0.326  13.67

163)     Acenaphthene-d10b     ----------------ISTD---------------------
164) 1,2,4,5-Tetr 0.648 0.642 0.534 0.466 0.440 0.496 0.569 0.657 0.557  15.50

165)     Phenanthrene-d10b     ----------------ISTD---------------------
166) Atrazine     0.203 0.217 0.192 0.178 0.168 0.186 0.193 0.200 0.192   7.94

167)     Chrysene-d12b         ----------------ISTD---------------------
168) Benzidine    0.740 0.852 0.774 0.574 0.440 0.740 0.776 0.664 0.695  19.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MF6563.M          Wed Apr 06 09:12:35 2016   RT1
```

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6563
Lab FileID: F156069.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D Vial: 11
Acq On : 5 Apr 2016 3:46 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	4.88
3	t	Pyridine	1.459	1.468	-0.6	99	0.07	2.86
10	t	Aniline	1.993	2.110	-5.9	116	0.00	4.64
16	t	Benzyl alcohol	0.947	0.920	2.9	99	0.00	4.98
24	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00	5.80
39	t	4-Chloroaniline	0.451	0.416	7.8	106	0.00	5.85
44	t	2-Methylnaphthalene	0.616	0.531	13.8	96	0.00	6.33
47	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00	7.27
54	t	2-Nitroaniline	0.328	0.291	11.3	90	0.00	6.82
58	t	3-Nitroaniline	0.350	0.305	12.9	89	0.00	7.21
62	t	Dibenzofuran	1.606	1.408	12.3	97	0.00	7.49
68	t	4-Nitroaniline	0.353	0.292	17.3	86	-0.01	7.90
69	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01	9.21
79	t	Carbazole	1.080	0.973	9.9	94	0.00	9.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Wed Apr 06 08:50:50 2016 RT1

Initial Calibration Verification

Job Number: JC19423 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156070.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D          Vial: 12
Acq On    :  5 Apr 2016   4:15 am                   Operator: sarad
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6564,100                      Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	4.88
5	S	2-Fluorophenol	1.407	1.228	12.7	90	0.00	3.89
8	S	Phenol-d5	1.711	1.474	13.9	90	0.00	4.60
24	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00	5.80
25	S	Nitrobenzene-d5	0.374	0.331	11.5	89	0.00	5.28
47	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00	7.27
51	S	2-Fluorobiphenyl	1.277	1.106	13.4	90	0.00	6.63
69	I	Phenanthrene-d10	1.000	1.000	0.0	91	-0.01	9.21
73	S	2,4,6-Tribromophenol	0.082	0.072	12.2	78	-0.01	8.19
83	I	Chrysene-d12	1.000	1.000	0.0	95	-0.02	14.53
85	S	Terphenyl-d14	0.812	0.700	13.8	80	0.00	12.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Wed Apr 06 08:50:51 2016 RT1

Initial Calibration Verification

Job Number: JC19423 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156071.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	4.88
4	t	N-Nitrosodimethylamine	0.525	0.491	6.5	86	0.00	2.76
11	t	bis(2-Chloroethyl)ether	1.310	1.262	3.7	90	0.00	4.68
14	t	1,3-Dichlorobenzene	1.647	1.531	7.0	88	0.00	4.84
15	t	1,4-Dichlorobenzene	1.643	1.547	5.8	90	0.00	4.89
17	t	1,2-Dichlorobenzene	1.545	1.468	5.0	91	0.00	5.00
20	t	2,2'-oxybis(1-Chloropropa	0.472	0.407	13.8	83	0.00	5.08
22		n-Nitroso-di-n-propylamin	0.966	0.892	7.7	91	0.00	5.17
23	t	Hexachloroethane	0.509	0.474	6.9	88	0.00	5.25
24	I	Naphthalene-d8	1.000	1.000	0.0	91	0.00	5.80
26	t	Nitrobenzene	0.391	0.361	7.7	84	0.00	5.29
28	t	Isophorone	0.668	0.657	1.6	92	-0.01	5.46
32	t	bis(2-Chloroethoxy)methan	0.421	0.383	9.0	87	0.00	5.62
36	t	1,2,4-Trichlorobenzene	0.330	0.300	9.1	86	0.00	5.76
38	t	Naphthalene	1.092	1.031	5.6	92	0.00	5.82
42	t	Hexachlorobutadiene	0.156	0.146	6.4	89	0.00	5.90
47	I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00	7.27
52	t	2-Chloronaphthalene	1.156	1.074	7.1	84	0.00	6.74
55	t	Dimethylphthalate	1.293	1.139	11.9	78	0.00	6.98
56	t	Acenaphthylene	1.874	1.715	8.5	83	0.00	7.13
57	t	2,6-Dinitrotoluene	0.280	0.250	10.7	74	0.00	7.05
59	t	Acenaphthene	1.177	1.104	6.2	86	0.00	7.30
63	t	2,4-Dinitrotoluene	0.379	0.317	16.4	69	0.00	7.46
65	t	Diethylphthalate	1.278	1.093	14.5	75	-0.01	7.74
66	t	Fluorene	1.236	1.107	10.4	85	0.00	7.89
67	t	4-Chlorophenyl-phenylethe	0.545	0.466	14.5	83	0.00	7.89
69	I	Phenanthrene-d10	1.000	1.000	0.0	80	0.00	9.21
71	t	n-Nitrosodiphenylamine	0.572	0.506	11.5	74	0.00	8.03
72	t	1,2-Diphenylhydrazine	0.791	0.781	1.3	81	0.00	8.08
74	t	4-Bromophenyl-phenylether	0.192	0.180	6.3	79	0.00	8.54
75	t	Hexachlorobenzene	0.184	0.176	4.3	80	0.00	8.62
77	t	Phenanthrene	1.151	1.081	6.1	81	0.00	9.25
78	t	Anthracene	1.152	1.079	6.3	79	-0.01	9.33
80	t	Di-n-butylphthalate	1.349	1.228	9.0	74	0.00	10.32
81	t	Fluoranthene	1.141	1.063	6.8	77	-0.01	11.42
83	I	Chrysene-d12	1.000	1.000	0.0	81	-0.01	14.54
84	t	Pyrene	1.419	1.406	0.9	79	0.00	11.88
86	t	Butylbenzylphthalate	0.697	0.638	8.5	71	-0.01	13.48

Initial Calibration Verification

Job Number: JC19423 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156071.D
Project: BMSMC, Building 5 Area, PR

88	t	Benzo[a]anthracene	1.212	1.111	8.3	74	-0.01	14.52
90	t	Chrysene	1.204	1.116	7.3	75	-0.02	14.59
91	t	bis(2-Ethylhexyl)phthalat	0.966	0.878	9.1	70	0.00	14.89
92	I	Perylene-d12	1.000	1.000	0.0	76	-0.01	17.58
93	t	Di-n-octylphthalate	1.753	1.614	7.9	67	0.00	16.35
94	t	Benzo[b]fluoranthene	1.236	1.149	7.0	72	-0.01	16.83
95	t	Benzo[k]fluoranthene	1.210	1.203	0.6	77	-0.02	16.89
96	t	Benzo[a]pyrene	1.132	1.096	3.2	74	-0.01	17.47
97	t	Indeno[1,2,3-cd]pyrene	1.044	1.002	4.0	72	-0.02	19.53
99	t	Dibenz[a,h]anthracene	1.010	0.973	3.7	73	-0.02	19.59
101	t	Benzo[g,h,i]perylene	1.128	1.079	4.3	74	-0.02	19.95

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:37 2016 RT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6564
Lab FileID: F156071A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D          Vial: 13
Acq On    :  5 Apr 2016   4:44 am                    Operator: sarad
Sample    : icv6564-50                               Inst    : MSF
Misc      : op92661,ef6564,100                       Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
163	Acenaphthene-d10b	1.000	1.000	0.0	103	0.00	7.27
164	1,2,4,5-Tetrachlorobenzen	0.557	0.496	11.0	103	0.00	6.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:38 2016 RT1

Initial Calibration Verification

Job Number: JC19423 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156072.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D          Vial: 14
Acq On    :  5 Apr 2016   5:13 am                   Operator: sarad
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6564,100                      Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	4.88
2	t	1,4-Dioxane	0.619	0.548	11.5	88	0.00	2.49
6	t	Indene	2.367	2.240	5.4	100	0.00	5.07
7	t	Cumene	3.180	2.825	11.2	91	0.00	4.29
13	t	Decane	1.278	1.119	12.4	94	0.00	4.76
18	t	Acetophenone	1.790	1.667	6.9	100	0.00	5.17
24	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00	5.80
27	t	Quinoline	0.773	0.578	25.2	85	-0.02	6.05
41	t	Caprolactam	0.152	0.112	26.3	82	-0.03	6.09
45	t	1-Methylnaphthalene	0.634	0.469	26.0	86	0.00	6.41
46	t	Dimethylnaphthalene	0.642	0.480	25.2	87	0.00	6.86
47	I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00	7.27
48	t	Hexachlorocyclopentadiene	0.271	0.278	-2.6	96	0.00	6.46
53	t	Biphenyl	1.484	1.284	13.5	87	0.00	6.72
69	I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00	9.21
82	t	Octadecane	0.468	0.437	6.6	84	0.00	9.10
92	I	Perylene-d12	1.000	1.000	0.0	79	-0.01	17.58
100	t	7,12-Dimethylbenz(a)anthr	0.483	0.447	7.5	68	-0.02	16.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:39 2016 RT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6564
Lab FileID: F156072A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D          Vial: 14
Acq On    :  5 Apr 2016   5:13 am                    Operator: sarad
Sample    : icv6564-50                               Inst    : MSF
Misc      : op92661,ef6564,100                       Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
159 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	109	0.00	4.88
160 t	Benzaldehyde	1.126	1.021	9.3	105	0.00	4.56
165	Phenanthrene-d10b	1.000	1.000	0.0	97	0.00	9.21
166	Atrazine	0.192	0.172	10.4	90	0.00	8.79

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:40 2016 RT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6563
Lab FileID: F156073.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D          Vial: 15
Acq On    :  5 Apr 2016   5:42 am                   Operator: sarad
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6564,100                      Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	108	-0.02	14.53
89 t	3,3'-Dichlorobenzidine	0.422	0.396	6.2	100	-0.01	14.55

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:41 2016 RT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6564
Lab FileID: F156073A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D          Vial: 15
Acq On    :  5 Apr 2016   5:42 am                    Operator: sarad
Sample    : icv6564-50                               Inst    : MSF
Misc      : op92661,ef6564,100                       Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
167	Chrysene-d12b	1.000	1.000	0.0	104	0.00	14.53
168	Benzidine	0.695	0.912	-31.2#	128	0.00	11.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:42 2016 RT1

Initial Calibration Summary

Job Number: JC19423 **Sample:** EF6566-ICC6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156082.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF6566.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration

Calibration Files
2 =F156086.D 5 =F156085.D 25 =F156083.D 80 =F156081.D
100 =F156080.D 50 =F156082.D 10 =F156084.D 1 =F156087.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
102) I 1,4-Dichlorobenzene-d					ISTD					
103) 2-Picoline	1.790	1.874	1.523	1.552	1.569	1.485	1.683	1.826	1.663	9.10
104) Pentachloroe	0.600	0.601	0.512	0.502	0.501	0.496	0.565	0.646	0.553	10.45
105) Methyl metha	0.895	0.909	0.793	0.782	0.781	0.788	0.817	0.929	0.837	7.56
106) N-Nitrosodie	0.798	0.772	0.658	0.662	0.673	0.632	0.708	0.803	0.713	9.57
107) N-Nitrosomet	0.616	0.778	0.573	0.621	0.637	0.579	0.638	0.579	0.628	10.57
108) Ethyl methan	1.300	1.281	1.054	1.091	1.104	1.025	1.137	1.361	1.169	10.81
109) N-Nitrosopyr	0.498	0.534	0.475	0.494	0.549	0.498	0.574	0.668	0.536	11.68
110) N-Nitrosomor	0.876	0.885	0.728	0.724	0.726	0.716	0.783	0.867	0.788	9.63
111) o-Toluidine	2.578	2.585	2.120	1.885	1.860	1.955	2.282	2.861	2.266	16.53
112) I Naphthalene-d8A					ISTD					
113) O,O,O-Trieth	0.189	0.191	0.152	0.143	0.137	0.147	0.166	0.185	0.164	13.44
114) N-Nitrosopip	0.226	0.237	0.199	0.207	0.209	0.197	0.211	0.240	0.216	7.65
115) A,A-Dimethyl	0.777	0.888	0.824	0.847	0.856	0.802	0.832	0.873	0.837	4.37
116) Hexachloropr	0.202	0.215	0.184	0.184	0.175	0.181	0.196	0.199	0.192	6.94
117) p-Phenylened		0.187	0.252	0.151		0.202	0.209		0.200	18.23
118) N-Nitrosodi-	0.261	0.305	0.233	0.235	0.237	0.235	0.262	0.379	0.268	18.93
119) Safrole	0.298	0.306	0.256	0.246	0.237	0.243	0.273	0.288	0.268	9.97
120) Isosafrole	0.101	0.102	0.203	0.084	0.086	0.199	0.086	0.109	0.121	41.34
121) I Acenaphthene-d10A					ISTD					
122) Thionazin	0.183	0.188	0.145	0.150	0.146	0.142	0.156	0.190	0.162	12.81
123) Tetraethyl d	0.151	0.156	0.129	0.129	0.126	0.129	0.147	0.143	0.139	8.63
124) Phorate	0.953	0.982	0.817	0.829	0.812	0.801	0.901	0.896	0.874	7.93
125) Phenacetin	0.645	0.697	0.631	0.654	0.654	0.633	0.658	0.549	0.640	6.59
126) 1,4-Naphthoq	0.260	0.285	0.364	0.255	0.237	0.351	0.295	0.238	0.286	17.16
127) m-Dinitroben		0.178	0.169	0.190	0.188	0.180	0.179		0.181	4.14
128) Pentachlorob	0.506	0.474	0.390	0.364	0.349	0.370	0.433	0.486	0.421	14.59
129) 1-Naphthylam	1.041	1.056	0.923	0.852	0.825	0.890	0.903	1.053	0.943	9.93
130) 2-Naphthylam	1.160	1.132	1.144	1.010	0.976	1.063	1.104	1.269	1.107	8.33
131) 5-Nitro-o-to	0.358	0.403	0.343	0.350	0.353	0.335	0.374	0.320	0.355	7.11
132) I Phenanthrene-d10A					ISTD					
133) Disulfoton	0.462	0.473	0.424	0.412	0.401	0.410	0.432	0.449	0.433	6.00
134) Dinoseb		0.113	0.137	0.178	0.175	0.159	0.121		0.147	18.95
135) Dimethoate	0.326	0.356	0.308	0.297	0.281	0.298	0.335	0.321	0.315	7.62
136) 4-Aminobiphe	0.409	0.385	0.354	0.330	0.314	0.345	0.327	0.422	0.361	11.15
137) Methyl parat	0.164	0.208	0.197	0.196	0.184	0.194	0.207	0.140	0.186	12.46
138) Parathion	0.153	0.182	0.158	0.158	0.153	0.153	0.174	0.130	0.158	9.95
139) Diphenylamin	1.337	1.343	1.081	1.012	0.953	1.018	1.207	1.318	1.159	13.95
140) Isodrin	0.146	0.143	0.113	0.120	0.113	0.111	0.123	0.148	0.127	12.49
141) Diallate	0.089	0.091	0.058	0.064	0.065	0.059	0.068		0.071	19.53
142) Pentachloron	0.033	0.036	0.031	0.028	0.026	0.030	0.033	0.033	0.031#	10.25

Initial Calibration Summary

Job Number: JC19423 **Sample:** EF6566-ICC6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156082.D
Project: BMSMC, Building 5 Area, PR

```
143) Pronamide    0.307 0.333 0.324 0.314 0.307 0.316 0.306 0.275 0.310   5.50
144) 4-Nitroquino 0.049 0.086 0.098 0.111 0.105 0.101 0.098       0.093  22.19
          ----- Quadratic regression -----                Coefficient =  0.9978
               Response Ratio = -0.01425 + 0.10783 *A + 0.00005 *A^2

145) Methapyrilin 0.395 0.421 0.345 0.225 0.193 0.277 0.387 0.418 0.333  26.98
          ----- Quadratic regression -----                Coefficient =  0.9992
               Response Ratio = 0.00614 + 0.36407 *A + -0.07004 *A^2

146) sym-Trinitro       0.044 0.068 0.073 0.074 0.076 0.047       0.064  22.28
          ----- Quadratic regression -----                Coefficient =  0.9992
               Response Ratio = -0.00645 + 0.08149 *A + -0.00200 *A^2


147) I   Chrysene-d12A         ----------------ISTD---------------------
148) Aramite      0.028 0.030 0.042 0.035 0.034 0.041 0.030       0.034# 15.62
149) p-(Dimethyla 0.339 0.420 0.386 0.404 0.384 0.384 0.406 0.300 0.378  10.44
150) Kepone       0.088 0.094 0.062 0.028 0.033 0.042 0.078 0.079 0.063  41.04
151) Famphur            0.508 0.292 0.144 0.115 0.205 0.427       0.282  56.15
          ----- Quadratic regression -----                Coefficient =  0.9936
               Response Ratio = 0.25917 + 0.24697 *A + -0.01008 *A^2

152) 2-Acetylamin 0.346 0.462 0.488 0.531 0.517 0.507 0.464       0.473  13.06
153) 3,3'-Dimethy 0.636 0.645 0.380 0.111 0.085 0.204 0.518 0.591 0.396  59.43
154) Chlorobenzil 0.287 0.326 0.301 0.314 0.295 0.294 0.320 0.269 0.301   6.24

155) I   Perylene-d12A         ----------------ISTD---------------------
156) 4,4-Methylen 0.139 0.153 0.111 0.098       0.098 0.137 0.133 0.124  17.50
157) 3-Methylchol 0.511 0.575 0.525 0.551 0.524 0.519 0.554 0.466 0.528   6.30
158) Hexachloroph 0.010 0.018 0.035 0.083 0.084 0.052 0.028       0.044# 67.64
          ----- Quadratic regression -----                Coefficient =  0.9914
               Response Ratio = -0.01910 + 0.03206 *A + 0.00375 *A^2


 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MF6563AP9.M        Fri Apr 08 17:18:47 2016   RT1
```

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6567-ICV6564
Lab FileID: F156097.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D          Vial: 10
Acq On    :  5 Apr 2016  10:16 pm                   Operator: sarad
Sample    : icv6564-50                              Inst    : MSF
Misc      : op92661,ef6567                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
161 I	Naphthalene-d8b	1.000	1.000	0.0	71	0.00	5.80
162 t	Hydroquinone	0.326	0.369	-13.2	69	0.00	6.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:38 2016 RT1

Initial Calibration Verification

Job Number: JC19423 **Sample:** EF6567-ICV6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156102.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	I	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	107	0.00	4.88
103	t	2-Picoline	1.663	1.527	8.2	110	0.00	3.41
104	t	Pentachloroethane	0.553	0.498	9.9	108	0.00	4.67
105	t	Methyl methanesulfonate	0.837	0.815	2.6	111	0.00	3.75
106	t	N-Nitrosodiethylamine	0.713	0.665	6.7	113	0.00	4.07
107	t	N-Nitrosomethylethylamine	0.628	0.612	2.5	114	0.00	3.51
108	t	Ethyl methanesulfonate	1.169	1.081	7.5	113	0.00	4.30
109	t	N-Nitrosopyrrolidine	0.536	0.485	9.5	104	0.00	5.15
110	t	N-Nitrosomorpholine	0.788	0.681	13.6	102	0.00	5.18
111	t	o-Toluidine	2.266	1.859	18.0	102	0.00	5.19
112	I	Naphthalene-d8A	1.000	1.000	0.0	104	0.00	5.80
113	t	O,O,O-Triethyl phosphorot	0.164	0.151	7.9	107	0.00	5.59
114	t	N-Nitrosopiperidine	0.216	0.207	4.2	109	0.00	5.40
115	t	A,A-Dimethylphenethylamin	0.837	0.833	0.5	108	-0.06	5.67
116	t	Hexachloropropene	0.192	0.183	4.7	105	0.00	5.88
117	t	p-Phenylenediamine	0.200	0.329	-64.5#	170	0.00	6.11
118	t	N-Nitrosodi-n-butylamine	0.268	0.316	-17.9	140	0.00	6.09
119	t	Safrole	0.268	0.272	-1.5	117	0.00	6.26
120	t	Isosafrole	0.121	0.139	-14.9	154	0.00	6.68
121	I	Acenaphthene-d10A	1.000	1.000	0.0	100	0.00	7.27
122	t	Thionazin	0.162	0.153	5.6	107	0.00	7.84
123	t	Tetraethyl dithiopyrophos	0.139	0.134	3.6	104	0.00	8.25
124	t	Phorate	0.874	0.850	2.7	106	0.00	8.44
125	t	Phenacetin	0.640	0.615	3.9	97	0.00	8.46
126	t	1,4-Naphthoquinone	0.286	0.397	-38.8#	113	0.00	6.90
128	t	Pentachlorobenzene	0.421	0.393	6.7	106	0.00	7.44
131	t	5-Nitro-o-toluidine	0.355	0.285	19.7	85	0.00	7.90
132	I	Phenanthrene-d10A	1.000	1.000	0.0	96	0.00	9.21
133	t	Disulfoton	0.433	0.437	-0.9	102	0.00	9.25
135	t	Dimethoate	0.315	0.243	22.9	78	0.00	8.68
136	t	4-Aminobiphenyl	0.361	0.361	-13.3	109	0.00	8.93
137	t	Methyl parathion	0.186	0.144	22.6	71	0.00	9.88
138	t	Parathion	0.158	0.161	-1.9	101	0.00	10.63
140	t	Isodrin	0.127	0.126	0.8	110	0.00	11.12
141	t	Diallate	0.071	0.064	9.9	105	0.00	8.55
142	t	Pentachloronitrobenzene	0.031	0.032#	-3.2	98	0.00	8.94
143	t	Pronamide	0.310	0.338	-9.0	103	0.00	9.04

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6567-ICV6566
Lab FileID: F156102.D

			True	Calc.	% Drift			
144	t	4-Nitroquinoline 1-oxide	50.000	37.844	24.3	68	-0.02	10.63
145	t	Methapyriline	50.000	40.652	18.7	84	-0.05	10.84

			AvgRF	CCRF	% Dev			
147	I	Chrysene-d12A	1.000	1.000	0.0	90	0.00	14.53
148	t	Aramite	0.034	0.044#	-29.4	97	0.00	12.53
149	t	p-(Dimethylamine)azobenze	0.378	0.429	-13.5	101	0.00	12.62
150	t	Kepone	0.063	0.052	17.5	76	0.24	13.58
152	t	2-Acetylaminofluorene	0.473	0.504	-6.6	90	0.00	13.90
153	t	3,3'-Dimethylbenzidine	0.396	0.303	23.5	134	-0.01	13.36
154	t	Chlorobenzilate	0.301	0.320	-6.3	98	0.00	12.76
155	I	Perylene-d12A	1.000	1.000	0.0	83	-0.02	17.57
157	t	3-Methylcholanthrene	0.528	0.561	-6.3	89	-0.02	18.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:43 2016 RT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6567-ICV6566
Lab FileID: F156104.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6567\F156104.D          Vial: 17
Acq On    :  6 Apr 2016   1:39 am                   Operator: sarad
Sample    : icv6566-50                              Inst    : MSF
Misc      : op92661,ef6567                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
155 I	Perylene-d12A	1.000	1.000	0.0	93	-0.01	17.58
		---------- True	Calc.	% Drift	----------		
158 t	Hexachlorophene	300.000	385.152	-28.4	154	0.00	17.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:45 2016 RT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6567-ICV6566
Lab FileID: F156105.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6567\F156105.D          Vial: 18
Acq On    :  6 Apr 2016   2:08 am                   Operator: sarad
Sample    : icv6566-50                              Inst    : MSF
Misc      : op92661,ef6567                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
121	I	Acenaphthene-d10A	1.000	1.000	0.0	131	0.00	7.27
127	t	m-Dinitrobenzene	0.181	0.231	-27.6	168	0.00	7.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:46 2016 RT1

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6567-ICV6566
Lab FileID: F156106.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6567\F156106.D Vial: 19
Acq On : 6 Apr 2016 2:38 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
121	I	Acenaphthene-d10A	1.000	1.000	0.0	102	0.00	7.27
129	t	1-Naphthylamine	0.943	1.189	-26.1	136	0.00	7.57
130	t	2-Naphthylamine	1.107	1.185	-7.0	114	0.00	7.66
132	I	Phenanthrene-d10A	1.000	1.000	0.0	102	0.00	9.21
146	t	sym-Trinitrobenzene	50.000	40.911	18.2	81	0.00	8.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:47 2016 RT1

Continuing Calibration Summary

Job Number: JC19423 **Sample:** EF6603-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156828.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6603\F156828.D          Vial: 2
Acq On    :  5 May 2016  10:23 am                   Operator: linseyk
Sample    : cc6563-50                               Inst    : MSF
Misc      : op90244,ef6603                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 09 09:57:38 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	-0.02	4.79
2	t	1,4-Dioxane	0.619	0.579	6.5	82	-0.03	2.37
3	t	Pyridine	1.459	1.508	-3.4	89	-0.03	2.68
4	t	N-Nitrosodimethylamine	0.525	0.598	-13.9	100	-0.03	2.65
5	S	2-Fluorophenol	1.407	1.350	4.1	84	-0.01	3.82
6	t	Indene	2.367	2.513	-6.2	99	-0.02	4.97
7	t	Cumene	3.180	3.576	-12.5	101	-0.04	4.19
8	S	Phenol-d5	1.711	1.798	-5.1	93	0.00	4.54
9	t	Phenol	1.821	2.045	-12.3	102	-0.04	4.54
10	t	Aniline	1.993	1.795	9.9	86	-0.02	4.55
11	t	bis(2-Chloroethyl)ether	1.310	1.377	-5.1	94	-0.02	4.60
12	t	2-Chlorophenol	1.485	1.448	2.5	88	-0.02	4.64
13	t	Decane	1.278	1.073	16.0	79	-0.03	4.66
14	t	1,3-Dichlorobenzene	1.647	1.571	4.6	86	-0.03	4.74
15	t	1,4-Dichlorobenzene	1.643	1.612	1.9	89	-0.03	4.80
16	t	Benzyl alcohol	0.947	0.930	1.8	88	-0.01	4.89
17	t	1,2-Dichlorobenzene	1.545	1.520	1.6	90	-0.02	4.91
18	t	Acetophenone	1.790	2.123	-18.6	112	-0.02	5.08
19	t	2-Methylphenol	1.272	1.339	-5.3	94	-0.02	4.98
20	t	2,2'-oxybis(1-Chloropropa	0.472	0.470	0.4	92	-0.02	4.99
21	t	3&4-Methylphenol	1.304	1.455	-11.6	102	0.00	5.09
22		n-Nitroso-di-n-propylamin	0.966	1.192	-23.4#	116	-0.02	5.08
23	t	Hexachloroethane	0.509	0.501	1.6	89	-0.02	5.16
24	I	Naphthalene-d8	1.000	1.000	0.0	94	-0.02	5.71
25	S	Nitrobenzene-d5	0.374	0.423	-13.1	107	-0.03	5.19
26	t	Nitrobenzene	0.391	0.451	-15.3	109	-0.04	5.21
27	t	Quinoline	0.773	0.702	9.2	88	0.00	5.98
28	t	Isophorone	0.668	0.729	-9.1	106	-0.02	5.38
29	t	2-Nitrophenol	0.203	0.191	5.9	90	-0.02	5.44
30	t	2,4-Dimethylphenol	0.320	0.354	-10.6	101	-0.03	5.47
31	t	Benzoic acid	0.267	0.307	-15.0	98	0.02	5.57
32	t	bis(2-Chloroethoxy)methan	0.421	0.406	3.6	96	-0.02	5.53
33	t	2,4-Dichlorophenol	0.319	0.282	11.6	85	0.10	5.62
34		2,6-Dichlorophenol	0.307	0.278	9.4	92	-0.02	5.77
35		1,3,5-Trichlorobenzene	0.336	0.316	6.0	96	-0.02	5.44
36	t	1,2,4-Trichlorobenzene	0.330	0.301	8.8	89	-0.02	5.67
37		1,2,3-Trichlorobenzene	0.326	0.296	9.2	89	-0.02	5.83
38	t	Naphthalene	1.092	1.061	2.8	99	-0.02	5.73
39	t	4-Chloroaniline	0.451	0.385	14.6	88	-0.02	5.76
40	t	2,3-Dichloroaniline	0.372	0.345	7.3	98	0.11	6.46
41	t	Caprolactam	0.152	0.129	15.1	80	0.11	6.04

Continuing Calibration Summary

Job Number: JC19423 **Sample:** EF6603-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156828.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.156	0.153	1.9	98	-0.02	5.81
43	t	4-Chloro-3-methylphenol	0.313	0.334	-6.7	102	-0.02	6.13
44	t	2-Methylnaphthalene	0.616	0.585	5.0	95	0.10	6.24
45	t	1-Methylnaphthalene	0.634	0.615	3.0	96	-0.02	6.32
46	t	Dimethylnaphthalene	0.642	0.609	5.1	94	-0.02	6.75
47	I	Acenaphthene-d10	1.000	1.000	0.0	92	-0.03	7.15
48	t	Hexachlorocyclopentadiene	0.271	0.322	-18.8	110	-0.02	6.36
49	t	2,4,6-Trichlorophenol	0.339	0.334	1.5	98	-0.04	6.46
50	t	2,4,5-Trichlorophenol	0.374	0.355	5.1	91	-0.05	6.51
51	S	2-Fluorobiphenyl	1.277	1.222	4.3	95	-0.02	6.53
52	t	2-Chloronaphthalene	1.156	1.108	4.2	94	-0.02	6.64
53	t	Biphenyl	1.484	1.409	5.1	94	-0.02	6.61
54	t	2-Nitroaniline	0.328	0.413	-25.9#	114	-0.01	6.73
55	t	Dimethylphthalate	1.293	1.280	1.0	95	-0.02	6.88
56	t	Acenaphthylene	1.874	1.808	3.5	95	-0.03	7.02
57	t	2,6-Dinitrotoluene	0.280	0.277	1.1	89	-0.02	6.94
58	t	3-Nitroaniline	0.350	0.320	8.6	83	-0.02	7.11
59	t	Acenaphthene	1.177	1.137	3.4	96	-0.03	7.19
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	102.650	-2.7	95	0.00	7.22
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.164	0.212	-29.3#	115	-0.01	7.30
62	t	Dibenzofuran	1.606	1.516	5.6	93	-0.03	7.37
63	t	2,4-Dinitrotoluene	0.379	0.395	-4.2	93	-0.02	7.35
64		2,3,4,6-Tetrachlorophenol	0.282	0.272	3.5	90	-0.03	7.50
65	t	Diethylphthalate	1.278	1.284	-0.5	95	-0.03	7.62
66	t	Fluorene	1.236	1.271	-2.8	106	-0.03	7.76
67	t	4-Chlorophenyl-phenylethe	0.545	0.546	-0.2	105	-0.04	7.75
68	t	4-Nitroaniline	0.353	0.311	11.9	82	-0.03	7.79
69	I	Phenanthrene-d10	1.000	1.000	0.0	90	-0.04	9.06
70	t	4,6-Dinitro-2-methylpheno	0.126	0.148	-17.5	96	-0.02	7.82
71	t	n-Nitrosodiphenylamine	0.572	0.536	6.3	87	-0.03	7.90
72	t	1,2-Diphenylhydrazine	0.791	0.968	-22.4#	112	-0.03	7.95
73	S	2,4,6-Tribromophenol	0.082	0.097	-18.3	104	-0.03	8.06
74	t	4-Bromophenyl-phenylether	0.192	0.191	0.5	94	-0.04	8.39
75	t	Hexachlorobenzene	0.184	0.199	-8.2	101	-0.04	8.47
76	t	Pentachlorophenol	0.121	0.141	-16.5	103	-0.03	8.77
77	t	Phenanthrene	1.151	1.137	1.2	95	-0.04	9.09
78	t	Anthracene	1.152	1.142	0.9	93	-0.04	9.18
79	t	Carbazole	1.080	1.017	5.8	89	-0.03	9.46
80	t	Di-n-butylphthalate	1.349	1.398	-3.6	95	-0.04	10.15
81	t	Fluoranthene	1.141	1.151	-0.9	93	-0.03	11.25
82	t	Octadecane	0.468	0.452	3.4	89	-0.04	8.94
83	I	Chrysene-d12	1.000	1.000	0.0	104	-0.04	14.34
84	t	Pyrene	1.419	1.293	8.9	94	-0.05	11.69
85	S	Terphenyl-d14	0.812	0.806	0.7	102	-0.05	12.12
86	t	Butylbenzylphthalate	0.697	0.657	5.7	94	-0.04	13.29
87		Butyl stearate	0.378	0.319	15.6	81	-0.04	13.57
88	t	Benzo[a]anthracene	1.212	1.157	4.5	100	-0.03	14.32
89	t	3,3'-Dichlorobenzidine	0.422	0.427	-1.2	104	-0.03	14.36
90	t	Chrysene	1.204	1.135	5.7	98	-0.04	14.40
91	t	bis(2-Ethylhexyl)phthalat	0.966	0.912	5.6	93	-0.03	14.69
92	I	Perylene-d12	1.000	1.000	0.0	97	0.02	17.38
93	t	Di-n-octylphthalate	1.753	1.747	0.3	93	0.02	16.14

Continuing Calibration Summary

Job Number: JC19423 **Sample:** EF6603-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156828.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[b]fluoranthene	1.236	1.286	-4.0	103	0.00	16.63
95	t	Benzo[k]fluoranthene	1.210	1.240	-2.5	101	0.02	16.70
96	t	Benzo[a]pyrene	1.132	1.141	-0.8	98	0.03	17.27
97	t	Indeno[1,2,3-cd]pyrene	1.044	1.108	-6.1	102	0.02	19.33
98	t	Dibenz(a,h)acridine	0.897	0.970	-8.1	104	0.06	18.97
99	t	Dibenz[a,h]anthracene	1.010	1.114	-10.3	106	0.00	19.39
100	t	7,12-Dimethylbenz(a)anthr	0.483	0.578	-19.7	108	0.02	16.65
101	t	Benzo[g,h,i]perylene	1.128	1.178	-4.4	103	0.01	19.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Mon May 09 09:58:58 2016 RT1

6.7.56

6

Continuing Calibration Summary

Job Number: JC19423 **Sample:** EF6603-CC6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156829.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6603\F156829.D          Vial: 3
Acq On    :  5 May 2016  10:52 am                   Operator: linseyk
Sample    : cc6564-50                               Inst    : MSF
Misc      : op90244,ef6603                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 09 09:57:38 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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.
102	I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	77	-0.03	4.78
103	t	Benzaldehyde	1.126	1.073	4.7	79	-0.02	4.46
104	I	Naphthalene-d8b	1.000	1.000	0.0	85	-0.03	5.71
105	t	Hydroquinone	0.326	0.322	1.2	73	-0.04	6.01
106		Acenaphthene-d10b	1.000	1.000	0.0	96	-0.03	7.15
107		1,2,4,5-Tetrachlorobenzen	0.557	0.432	22.4#	84	-0.03	6.36
108		Phenanthrene-d10b	1.000	1.000	0.0	89	-0.04	9.05
109		Atrazine	0.192	0.183	4.7	87	-0.04	8.65
110		Chrysene-d12b	1.000	1.000	0.0	88	-0.04	14.33
111		Benzidine	0.695	0.546	21.4#	65	-0.04	11.59

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Mon May 09 09:58:59 2016 RT1

Continuing Calibration Summary

Job Number: JC19423 **Sample:** EF6603-CC6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156831.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D          Vial: 5
Acq On    :  5 May 2016  12:01 pm                   Operator: linseyk
Sample    : cc6566-50                               Inst    : MSF
Misc      : op90244,ef6603                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 09 10:00:27 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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.
102	I	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	110	-0.02	4.79
103	t	2-Picoline	1.663	1.481	10.9	110	-0.04	3.32
104	t	Pentachloroethane	0.553	0.512	7.4	114	-0.02	4.58
105	t	Methyl methanesulfonate	0.837	0.881	-5.3	123	-0.03	3.66
106	t	N-Nitrosodiethylamine	0.713	0.624	12.5	108	-0.03	3.98
107	t	N-Nitrosomethylethylamine	0.628	0.593	5.6	112	-0.04	3.41
108	t	Ethyl methanesulfonate	1.169	1.077	7.9	115	-0.02	4.21
109	t	N-Nitrosopyrrolidine	0.536	0.511	4.7	113	0.00	5.08
110	t	N-Nitrosomorpholine	0.788	0.785	0.4	121	-0.01	5.10
111	t	o-Toluidine	2.266	2.021	10.8	114	-0.01	5.11
112	I	Naphthalene-d8A	1.000	1.000	0.0	112	-0.02	5.71
113	t	O,O,O-Triethyl phosphorot	0.164	0.147	10.4	111	-0.02	5.51
114	t	N-Nitrosopiperidine	0.216	0.203	6.0	115	-0.02	5.32
115	t	A,A-Dimethylphenethylamin	0.837	0.646	22.8#	90	-0.04	5.62
116	t	Hexachloropropene	0.192	0.199	-3.6	122	-0.03	5.79
117	t	p-Phenylenediamine	0.200	0.116	42.0#	64	0.00	6.02
118	t	N-Nitrosodi-n-butylamine	0.268	0.249	7.1	119	-0.02	6.00
119	t	Safrole	0.268	0.232	13.4	107	-0.02	6.16
120	t	Isosafrole	0.121	0.182	-50.4#	102	-0.02	6.58
121	I	Acenaphthene-d10A	1.000	1.000	0.0	110	-0.03	7.15
122	t	Thionazin	0.162	0.156	3.7	120	-0.04	7.71
123	t	Tetraethyl dithiopyrophos	0.139	0.158	-13.7	135	-0.04	8.11
124	t	Phorate	0.874	0.862	1.4	118	-0.04	8.30
125	t	Phenacetin	0.640	0.672	-5.0	116	-0.03	8.32
126	t	1,4-Naphthoquinone	0.286	0.331	-15.7	103	-0.02	6.79
127	t	m-Dinitrobenzene	0.181	0.168	7.2	102	-0.01	6.91
128	t	Pentachlorobenzene	0.421	0.385	8.6	114	-0.04	7.32
129	t	1-Naphthylamine	0.943	0.819	13.1	101	-0.03	7.45
130	t	2-Naphthylamine	1.107	0.980	11.5	101	-0.03	7.54
131	t	5-Nitro-o-toluidine	0.355	0.314	11.5	103	-0.02	7.77
132	I	Phenanthrene-d10A	1.000	1.000	0.0	109	-0.04	9.06
133	t	Disulfoton	0.433	0.394	9.0	105	-0.04	9.09
134	t	Dinoseb	0.147	0.176	-19.7	121	-0.04	9.07
135	t	Dimethoate	0.315	0.291	7.6	106	-0.03	8.54
136	t	4-Aminobiphenyl	0.361	0.353	2.2	112	-0.04	8.78
137	t	Methyl parathion	0.186	0.205	-10.2	115	-0.03	9.72
138	t	Parathion	0.158	0.175	-10.8	125	-0.04	10.46
139	t	Diphenylamine	1.159	1.063	8.3	114	-0.03	7.90
140	t	Isodrin	0.127	0.114	10.2	112	-0.05	10.94

Continuing Calibration Summary

Job Number: JC19423 **Sample:** EF6603-CC6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156831.D
Project: BMSMC, Building 5 Area, PR

141	t	Diallate	0.071	0.059	16.9	108	-0.04	8.41
142	t	Pentachloronitrobenzene	0.031	0.034#	-9.7	126	-0.04	8.79
143	t	Pronamide	0.310	0.325	-4.8	112	-0.04	8.89
		----------	True	Calc.	% Drift	----------		
144	t	4-Nitroquinoline 1-oxide	200.000	193.348	3.3	109	-0.03	10.48
145	t	Methapyriline	50.000	44.752	10.5	102	-0.09	10.66
146	t	sym-Trinitrobenzene	50.000	55.151	-10.3	117	-0.01	8.26
		----------	AvgRF	CCRF	% Dev	----------		
147	I	Chrysene-d12A	1.000	1.000	0.0	113	-0.05	14.33
148	t	Aramite	0.034	0.039#	-14.7	106	-0.06	12.34
149	t	p-(Dimethylamine)azobenze	0.378	0.393	-4.0	115	-0.06	12.43
150	t	Kepone	0.063	0.041#	34.9#	110	-0.07	13.14
151	t	Famphur	0.282	0.239	15.2	131	-0.05	13.13
152	t	2-Acetylaminofluorene	0.473	0.507	-7.2	113	-0.04	13.72
153	t	3,3'-Dimethylbenzidine	0.396	0.168	57.6#	93	-0.05	13.19
154	t	Chlorobenzilate	0.301	0.305	-1.3	117	-0.06	12.58
155	I	Perylene-d12A	1.000	1.000	0.0	109	-0.05	17.38
156	t	4,4-Methylene-bis-(2-chlo	0.124	0.102	17.7	112	-0.06	14.39
157	t	3-Methylcholanthrene	0.528	0.531	-0.6	111	0.02	17.98
		----------	True	Calc.	% Drift	----------		
158	t	Hexachlorophene	300.000	242.691	19.1	88	-0.04	17.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156273A.D MF6563AP9.M Mon May 09 10:05:59 2016 RT1

6.7.58

6

Initial Calibration Summary

Job Number: JC19423 **Sample:** EZ5485-ICC5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z109748.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSZ

Method : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

Calibration Files
100 =z109750A.D 80 =z109751A.D 50 =z109757.D 25 =z109752a.D
10 =z109753a.D 5 =z109754a.D 2 =z109755a.D 1 =z109756a.D

Compound	100	80	50	25	10	5	2	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.548	0.562	0.575	0.547	0.610	0.627	0.743	0.538	0.594	11.50
3) Pyridine	1.184	1.145	0.899	1.025	0.845	0.506			0.934	26.56
4) N-Nitrosodim	0.717	0.691	0.831	0.798	0.699	0.807	1.046	0.633	0.778	16.45
5) 2-Fluorophen	1.335	1.373	1.366	1.301	1.279	1.529	1.481	1.385	1.381	6.19
6) Indene	2.223	2.348	2.354	2.413	2.397	2.803	2.933	2.869	2.542	10.93
7) Cumene	2.932	3.070	3.148	3.110	3.075	3.640	3.421	3.549	3.243	7.94
8) Phenol-d5	1.486	1.561	1.602	1.560	1.553	1.784	1.691	1.712	1.619	6.20
9) Phenol	1.479	1.535	1.599	1.578	1.518	1.851	1.797	1.786	1.643	8.85
10) Aniline	1.669	1.750	1.782	1.875	1.878	2.004	2.161	2.004	1.890	8.49
11) bis(2-Chloro	1.013	1.043	1.051	1.005	1.074	1.306	1.227	1.280	1.125	11.09
12) 2-Chlorophen	1.293	1.330	1.387	1.365	1.465	1.677	1.781	1.824	1.515	14.05
13) Decane	1.153	1.209	1.251	1.318	1.301	1.559	1.568	1.811	1.396	16.22
14) 1,3-Dichloro	1.441	1.510	1.564	1.571	1.552	1.885	1.891	1.773	1.648	10.61
15) 1,4-Dichloro	1.401	1.487	1.504	1.487	1.508	1.797	1.568	1.756	1.564	8.92
16) Benzyl alcoh	0.683	0.743	0.735	0.685	0.624	0.635	0.714	0.727	0.693	6.52
17) 1,2-Dichloro	1.297	1.377	1.417	1.414	1.400	1.664	1.735	1.814	1.515	12.72
18) Acetophenone	1.603	1.685	1.736	1.675	1.682	1.946	2.034	1.745	1.763	8.41
19) 2-Methylphen	1.193	1.235	1.235	1.149	1.209	1.473	1.351	1.429	1.284	9.22
20) 2,2'-oxybis(	0.341	0.355	0.377	0.348	0.369	0.422	0.504	0.432	0.393	14.14
21) 3&4-Methylph	1.153	1.237	1.323	1.242	1.274	1.540	1.451	1.497	1.340	10.43
22) n-Nitroso-di	0.783	0.802	0.828	0.867	0.842	1.047	1.075	1.054	0.912	13.58
23) Hexachloroet	0.399	0.426	0.441	0.451	0.456	0.551	0.475	0.447	0.456	9.76
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.298	0.300	0.305	0.310	0.299	0.342	0.353	0.375	0.323	9.26
26) Nitrobenzene	0.284	0.288	0.294	0.315	0.302	0.353	0.385	0.382	0.325	12.87
27) Quinoline	0.707	0.710	0.725	0.727	0.705	0.799	0.823	0.860	0.757	8.07
28) Isophorone	0.541	0.542	0.543	0.551	0.531	0.621	0.607	0.595	0.566	6.23
29) 2-Nitropheno	0.190	0.190	0.195	0.201	0.187	0.210	0.219	0.225	0.202	7.09
30) 2,4-Dimethyl	0.305	0.305	0.303	0.314	0.317	0.325	0.350	0.325	0.318	4.92
31) Benzoic Acid	0.251	0.256	0.240	0.234	0.190	0.202	0.234		0.229	10.61
32) bis(2-Chloro	0.316	0.322	0.326	0.331	0.332	0.382	0.368	0.435	0.351	11.70
33) 2,4-Dichloro	0.269	0.275	0.271	0.279	0.284	0.304	0.286	0.274	0.280	4.04
34) 2,6-Dichloro	0.258	0.262	0.259	0.272	0.270	0.305	0.281	0.285	0.274	5.86
35) 1,3,5-Trichl	0.283	0.285	0.292	0.306	0.321	0.368	0.338	0.310	0.313	9.26
36) 1,2,4-Trichl	0.260	0.262	0.269	0.278	0.299	0.323	0.324	0.320	0.292	9.59
37) 1,2,3-Trichl	0.249	0.252	0.264	0.276	0.271	0.335	0.300	0.322	0.284	11.25
38) Naphthalene	0.976	1.012	1.003	1.056	1.030	1.181	1.204	1.322	1.098	11.21
39) 4-Chloroanil	0.365	0.374	0.387	0.412	0.411	0.514	0.494	0.541	0.437	15.67
40) 2,3-Dichloro	0.312	0.313	0.322	0.338	0.330	0.383	0.399	0.415	0.352	11.68
41) Caprolactam	0.140	0.134	0.137	0.135	0.133	0.149	0.169	0.141	0.142	8.42
42) Hexachlorobu	0.123	0.124	0.123	0.133	0.141	0.132	0.147	0.114	0.130	8.27
43) 4-Chloro-3-m	0.279	0.292	0.285	0.297	0.275	0.329	0.305	0.314	0.297	6.23
44) 2-Methylnaph	0.547	0.557	0.586	0.606	0.615	0.713	0.634	0.634	0.611	8.55
45) 1-Methylnaph	0.565	0.574	0.611	0.635	0.629	0.724	0.658	0.839	0.654	13.71

Initial Calibration Summary

Job Number: JC19423 **Sample:** EZ5485-ICC5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z109748.D
Project: BMSMC, Building 5 Area, PR

```
46) Dimethylnaph 0.582 0.593 0.587 0.611 0.600 0.705 0.693 0.688 0.632   8.37

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.251 0.274 0.268 0.282 0.275 0.311 0.248 0.225 0.267   9.67
49) 2,4,6-Trichl 0.290 0.313 0.319 0.324 0.350 0.376 0.344 0.326 0.330   7.90
50) 2,4,5-Trichl 0.307 0.319 0.316 0.354 0.345 0.408 0.424 0.390 0.358  12.52
51) 2-Fluorobiph 1.067 1.143 1.161 1.254 1.258 1.490 1.373 1.509 1.282  12.66
52) 2-Chloronaph 0.931 0.997 1.021 1.063 1.109 1.258 1.350 1.340 1.133  14.27
53) Biphenyl     1.329 1.416 1.445 1.495 1.550 1.806 1.772 1.891 1.588  13.04
54) 2-Nitroanili 0.279 0.300 0.296 0.309 0.322 0.303 0.368 0.268 0.306   9.89
55) Dimethylphth 1.136 1.184 1.202 1.245 1.230 1.422 1.411 1.351 1.273   8.49
56) Acenaphthyle 1.727 1.858 1.864 1.929 1.958 2.279 2.116 2.199 1.991   9.49
57) 2,6-Dinitrot 0.263 0.270 0.274 0.271 0.288 0.307 0.249 0.309 0.279   7.59
58) 3-Nitroanili 0.310 0.323 0.328 0.336 0.334 0.348 0.357 0.360 0.337   5.07
59) Acenaphthene 1.033 1.086 1.122 1.143 1.176 1.333 1.302 1.333 1.191   9.83
60) 2,4-Dinitrop 0.156 0.160 0.150 0.139 0.104 0.095 0.097       0.129  22.59
            ---- Quadratic regression ----  Coefficient =  0.9991
              Response Ratio = -0.01641 + 0.15554 *A + 0.00109 *A^2

61) 4-Nitropheno 0.137 0.148 0.143 0.142 0.156 0.164 0.177 0.175 0.155   9.88
62) Dibenzofuran 1.421 1.496 1.537 1.573 1.604 1.843 1.795 1.890 1.645  10.59
63) 2,4-Dinitrot 0.343 0.354 0.364 0.362 0.378 0.353 0.438 0.311 0.363   9.98
64) 2,3,4,6-Tetr 0.253 0.264 0.263 0.282 0.252 0.322 0.313 0.322 0.284  10.72
65) Diethylphtha 1.115 1.167 1.194 1.211 1.231 1.474 1.461 1.595 1.306  13.55
66) Fluorene     1.129 1.186 1.246 1.282 1.364 1.559 1.488 1.579 1.354  12.68
67) 4-Chlorophen 0.484 0.507 0.521 0.548 0.538 0.622 0.643 0.604 0.558  10.35
68) 4-Nitroanili 0.328 0.333 0.339 0.354 0.349 0.360 0.337 0.299 0.337   5.61

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.139 0.138 0.140 0.116 0.112 0.101 0.088       0.119  17.12
71) n-Nitrosodip 0.521 0.536 0.550 0.554 0.591 0.632 0.700 0.569 0.582  10.14
72) 1,2-Diphenyl 0.610 0.637 0.658 0.668 0.689 0.772 0.755 0.772 0.695   9.12
73) 2,4,6-Tribro 0.113 0.115 0.114 0.115 0.117 0.124 0.127 0.158 0.123  12.34
74) 4-Bromopheny 0.185 0.190 0.200 0.199 0.191 0.230 0.225 0.240 0.208  10.18
75) Hexachlorobe 0.204 0.212 0.220 0.216 0.223 0.254 0.239 0.294 0.233  12.59
76) Pentachlorop 0.134 0.137 0.131 0.124 0.115 0.119 0.112 0.118 0.124   7.36
77) Phenanthrene 1.027 1.069 1.070 1.071 1.106 1.273 1.230 1.312 1.145   9.55
78) Anthracene   1.056 1.093 1.123 1.130 1.167 1.276 1.324 1.267 1.179   8.24
79) Carbazole    1.024 1.075 1.103 1.093 1.071 1.219 1.253 1.158 1.125   7.03
80) Di-n-butylph 1.290 1.335 1.355 1.337 1.354 1.468 1.537 1.397 1.384   5.84
81) Fluoranthene 1.093 1.092 1.126 1.127 1.123 1.226 1.277 1.498 1.195  11.63
82) Octadecane   0.434 0.445 0.469 0.470 0.480 0.559 0.581 0.533 0.496  10.94

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.204 1.255 1.243 1.268 1.284 1.542 1.541 1.453 1.349  10.37
85) Butyl steara 0.360 0.377 0.371 0.359 0.335 0.398 0.403 0.315 0.365   8.14
86) Terphenyl-d1 0.778 0.801 0.800 0.784 0.795 0.896 0.962 0.909 0.840   8.41
87) Butylbenzylp 0.631 0.658 0.652 0.632 0.603 0.668 0.677 0.628 0.644   3.79
88) Benzo[a]anth 1.089 1.140 1.117 1.116 1.076 1.234 1.289 1.284 1.168   7.47
89) 3,3'-Dichlor 0.387 0.409 0.406 0.420 0.387 0.493 0.454 0.417 0.422   8.46
90) Chrysene     1.008 1.062 1.064 1.085 1.060 1.229 1.361 1.255 1.140  10.92
91) bis(2-Ethylh 0.885 0.922 0.906 0.880 0.830 0.993 0.971 0.861 0.906   6.06

92) I   Perylene-d12          ----------------ISTD---------------------
93) Di-n-octylph 1.530 1.582 1.617 1.582 1.460 1.591 1.594 1.375 1.541   5.41
94) Benzo[b]fluo 1.132 1.196 1.207 1.183 1.170 1.370 1.332 1.511 1.263  10.26
95) Benzo[k]fluo 0.996 1.027 1.079 1.100 1.123 1.281 1.243 1.219 1.134   9.15
96) Benzo[a]pyre 1.025 1.055 1.079 1.114 1.055 1.200 1.194 1.271 1.124   7.80
97) Indeno[1,2,3 1.006 1.049 1.089 1.078 1.068 1.241 1.205 1.252 1.124   8.41
98) Dibenz(a,h)a 0.935 0.988 1.010 1.025 0.996 1.076 1.204 1.277 1.064  11.04
```

Initial Calibration Summary

Job Number: JC19423 **Sample:** EZ5485-ICC5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z109748.D
Project: BMSMC, Building 5 Area, PR

```
 99) Dibenz[a,h]a 1.078 1.120 1.128 1.133 1.117 1.309 1.323 1.252 1.183   8.15
100) 7,12-Dimethy 0.509 0.534 0.539 0.535 0.509 0.617 0.627 0.726 0.575  13.24
101) Benzo[g,h,i] 1.029 1.090 1.141 1.142 1.102 1.309 1.338 1.509 1.208  13.41


 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MZ5485.M          Thu Apr 14 15:14:55 2016   RTE
```

Initial Calibration Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EZ5486-ICC5486
Lab FileID: Z109757.D

Response Factor Report MSZ

Method : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Thu Apr 14 12:08:11 2016
Response via : Initial Calibration

Calibration Files
100 =z109750.D 80 =z109751.D 50 =z109757.D 25 =z109752.D
10 =z109753.D 5 =z109754.D 2 =z109755.D 1 =z109756.D

Compound	100	80	50	25	10	5	2	1	Avg	%RSD
102) 1,4-Dichlorobenzene-d	ISTD									
103) Benzaldehyde	0.755	0.920	1.044	1.065	1.092	1.158	1.046	1.371	1.056	16.78
104) Phenanthrene-d10a	ISTD									
105) 1-chloroocta	0.297	0.298	0.285	0.310	0.301	0.332	0.327	0.275	0.303	6.42
106) o-terphenyl	0.462	0.477	0.477	0.505	0.486	0.586	0.554	0.621	0.521	11.29
107) Atrazine	0.090	0.088	0.090	0.094	0.097	0.115	0.104	0.118	0.100	11.72
108) Chrysene-d12a	ISTD									
109) Benzidine	0.410	0.566	0.568	0.588	0.678	0.602	0.424	0.548		17.68
110) Acenaphthene-d10a	ISTD									
111) 1,2,4,5-Tetr	0.454	0.461	0.495	0.513	0.475	0.577	0.553	0.574	0.513	9.70
112) I Naphthalene-d8a	ISTD									
113) Hydroquinone	0.309	0.287	0.296	0.286	0.203	0.280	0.173	0.299	0.267	18.75

(#) = Out of Range ### Number of calibration levels exceeded format ###

MZ5485.M Thu Apr 14 12:08:40 2016 RTE

Initial Calibration Verification

Job Number: JC19423 **Sample:** EZ5486-ICV5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z109758.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5486\z109758.D          Vial: 20
Acq On    : 14 Apr 2016   7:59 am                   Operator: sarad
Sample    : icv5485-50                              Inst    : MSZ
Misc      : op92825,ez5486                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Apr 14 12:08:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	0.00	4.33
9	t	Phenol	1.643	1.649	-0.4	127	0.00	4.16
12	t	2-Chlorophenol	1.515	1.469	3.0	130	0.00	4.20
19	t	2-Methylphenol	1.284	1.268	1.2	126	0.00	4.58
21	t	3&4-Methylphenol	1.340	1.330	0.7	124	0.00	4.69
24	I	Naphthalene-d8	1.000	1.000	0.0	117	0.00	5.25
29	t	2-Nitrophenol	0.202	0.207	-2.5	124	0.00	5.00
30	t	2,4-Dimethylphenol	0.318	0.324	-1.9	125	0.00	5.05
31		Benzoic Acid	0.229	0.220	3.9	108	0.02	5.19
33	t	2,4-Dichlorophenol	0.280	0.289	-3.2	125	0.00	5.18
34		2,6-Dichlorophenol	0.274	0.266	2.9	120	0.00	5.34
43	t	4-Chloro-3-methylphenol	0.297	0.302	-1.7	124	0.00	5.71
47	I	Acenaphthene-d10	1.000	1.000	0.0	116	0.00	6.56
49	t	2,4,6-Trichlorophenol	0.330	0.337	-2.1	123	0.00	5.98
50	t	2,4,5-Trichlorophenol	0.358	0.318	11.2	117	0.00	6.02
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	46.150	7.7	101	0.00	6.64
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.155	0.158	-1.9	129	0.00	6.79
64		2,3,4,6-Tetrachlorophenol	0.284	0.262	7.7	116	0.00	6.89
69	I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00	8.22
70	t	4,6-Dinitro-2-methylpheno	0.119	0.131	-10.1	110	0.00	7.16
76	t	Pentachlorophenol	0.124	0.132	-6.5	118	0.00	8.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
z109757a.D MZ5485.M Thu Apr 14 12:50:21 2016 RTE

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EZ5486-ICV5485
Lab FileID: Z109759.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez5486\z109759.D Vial: 21
Acq On : 14 Apr 2016 8:30 am Operator: sarad
Sample : icv5485-50 Inst : MSZ
Misc : op92825,ez5486 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Thu Apr 14 12:08:11 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00	4.33
10	t	Aniline	1.890	1.827	3.3	116	0.00	4.12
16	t	Benzyl alcohol	0.693	0.799	-15.3	123	0.00	4.47
24	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00	5.25
39	t	4-Chloroaniline	0.437	0.393	10.1	116	0.00	5.34
44	t	2-Methylnaphthalene	0.611	0.566	7.4	111	0.00	5.75
47	I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00	6.55
54	t	2-Nitroaniline	0.306	0.288	5.9	107	0.00	6.22
58	t	3-Nitroaniline	0.337	0.325	3.6	109	0.00	6.57
62	t	Dibenzofuran	1.645	1.546	6.0	110	0.00	6.74
68	t	4-Nitroaniline	0.337	0.315	6.5	102	0.00	7.17
69	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00	8.22
79	t	Carbazole	1.125	1.068	5.1	108	0.00	8.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
z109757a.D MZ5485.M Thu Apr 14 13:02:29 2016 RTE

Initial Calibration Verification

Job Number: JC19423 **Sample:** EZ5486-ICV5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z109760.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5486\z109760.D          Vial: 22
Acq On    : 14 Apr 2016   9:01 am                   Operator: sarad
Sample    : icv5485-50                              Inst    : MSZ
Misc      : op92825,ez5486                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Apr 14 12:08:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	134	0.00	4.33
5	S	2-Fluorophenol	1.381	1.437	-4.1	141	0.00	3.41
8	S	Phenol-d5	1.619	1.666	-2.9	140	0.00	4.15
24	I	Naphthalene-d8	1.000	1.000	0.0	131	0.00	5.25
25	S	Nitrobenzene-d5	0.323	0.325	-0.6	140	0.00	4.75
47	I	Acenaphthene-d10	1.000	1.000	0.0	125	0.00	6.55
51	S	2-Fluorobiphenyl	1.282	1.356	-5.8	146	0.00	6.02
69	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00	8.22
73	S	2,4,6-Tribromophenol	0.123	0.121	1.6	130	0.00	7.35
83	I	Chrysene-d12	1.000	1.000	0.0	117	-0.02	13.20
86	S	Terphenyl-d14	0.840	0.905	-7.7	133	0.00	11.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0
z109757a.D MZ5485.M Thu Apr 14 13:06:59 2016 RTE

Initial Calibration Verification

Job Number: JC19423 **Sample:** EZ5486-ICV5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z109761.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5486\z109761.D          Vial: 23
Acq On    : 14 Apr 2016   9:32 am                   Operator: sarad
Sample    : icv5485-50                              Inst    : MSZ
Misc      : op92825,ez5486                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Apr 14 12:08:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	4.33
4	t	N-Nitrosodimethylamine	0.778	0.798	-2.6	107	0.02	2.15
11	t	bis(2-Chloroethyl)ether	1.125	1.231	-9.4	131	0.00	4.15
14	t	1,3-Dichlorobenzene	1.648	1.645	0.2	118	0.00	4.28
15	t	1,4-Dichlorobenzene	1.564	1.597	-2.1	119	0.00	4.34
17	t	1,2-Dichlorobenzene	1.515	1.550	-2.3	122	0.00	4.46
20	t	2,2'-oxybis(1-Chloropropa	0.393	0.306	22.1	91	0.00	4.54
22	t	n-Nitroso-di-n-propylamin	0.912	0.910	0.2	123	0.00	4.64
23	t	Hexachloroethane	0.456	0.468	-2.6	119	0.00	4.70
24	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00	5.25
26	t	Nitrobenzene	0.325	0.331	-1.8	120	0.00	4.77
28	t	Isophorone	0.566	0.600	-6.0	118	0.00	4.92
32	t	bis(2-Chloroethoxy)methan	0.351	0.364	-3.7	119	0.00	5.09
36	t	1,2,4-Trichlorobenzene	0.292	0.305	-4.5	121	0.00	5.21
38	t	Naphthalene	1.098	1.085	1.2	115	0.00	5.27
42	t	Hexachlorobutadiene	0.130	0.152	-16.9	132	0.00	5.35
47	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00	6.56
48	t	Hexachlorocyclopentadiene	0.267	0.278	7.1	104	0.00	5.87
52	t	2-Chloronaphthalene	1.133	1.174	-3.6	116	0.00	6.11
55	t	Dimethylphthalate	1.273	1.315	-3.3	110	0.00	6.34
56	t	Acenaphthylene	1.991	1.900	4.6	102	0.00	6.44
57	t	2,6-Dinitrotoluene	0.279	0.288	-3.2	106	0.00	6.39
59	t	Acenaphthene	1.191	1.254	-5.3	112	0.00	6.58
63	t	2,4-Dinitrotoluene	0.363	0.368	-1.4	102	0.00	6.75
65	t	Diethylphthalate	1.306	1.327	-1.6	112	0.00	6.97
66	t	Fluorene	1.354	1.314	3.0	106	0.00	7.07
67	t	4-Chlorophenyl-phenylethe	0.558	0.560	-0.4	108	0.00	7.07
69	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00	8.22
71	t	n-Nitrosodiphenylamine	0.582	0.596	-2.4	110	0.00	7.22
72	t	1,2-Diphenylhydrazine	0.695	0.700	-0.7	108	0.00	7.24
74	t	4-Bromophenyl-phenylether	0.208	0.201	3.4	102	0.00	7.63
75	t	Hexachlorobenzene	0.233	0.227	2.6	105	0.00	7.70
77	t	Phenanthrene	1.145	1.121	2.1	107	0.00	8.25
78	t	Anthracene	1.179	1.131	4.1	102	0.00	8.32
80	t	Di-n-butylphthalate	1.384	1.425	-3.0	107	0.00	9.21
81	t	Fluoranthene	1.195	1.171	2.0	106	0.00	10.23
83	I	Chrysene-d12	1.000	1.000	0.0	91	-0.01	13.21
84	t	Pyrene	1.349	1.453	-7.7	106	0.00	10.65

Initial Calibration Verification

Job Number: JC19423 **Sample:** EZ5486-ICV5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z109761.D
Project: BMSMC, Building 5 Area, PR

87	t	Butylbenzylphthalate	0.644	0.709	-10.1	99	0.00	12.19
88	t	Benzo[a]anthracene	1.168	1.205	-3.2	98	0.00	13.18
90	t	Chrysene	1.140	1.103	3.2	94	0.00	13.26
91	t	bis(2-Ethylhexyl)phthalat	0.906	0.982	-8.4	99	0.00	13.53
92	I	Perylene-d12	1.000	1.000	0.0	85	-0.01	16.19
93	t	Di-n-octylphthalate	1.541	1.818	-18.0	95	0.00	14.93
94	t	Benzo[b]fluoranthene	1.263	1.259	0.3	88	0.00	15.45
95	t	Benzo[k]fluoranthene	1.134	1.239	-9.3	97	0.00	15.50
96	t	Benzo[a]pyrene	1.124	1.171	-4.2	92	0.00	16.08
97	t	Indeno[1,2,3-cd]pyrene	1.124	1.169	-4.0	91	0.00	18.11
99	t	Dibenz[a,h]anthracene	1.183	1.184	-0.1	89	0.00	18.16
101	t	Benzo[g,h,i]perylene	1.208	1.176	2.6	87	0.00	18.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
z109757a.D MZ5485.M Thu Apr 14 13:07:01 2016 RTE

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EZ5486-ICV5486
Lab FileID: Z109761A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5486\z109761a.D          Vial: 23
Acq On    : 14 Apr 2016   9:32 am                    Operator: sarad
Sample    : icv5486-50                               Inst    : MSZ
Misc      : op92825,ez5486                           Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Apr 14 12:08:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
108	Chrysene-d12a	1.000	1.000	0.0	80	0.00	13.21
109	Benzidine	0.548	0.851	-55.3#	120	0.00	10.63
110	Acenaphthene-d10a	1.000	1.000	0.0	105	0.00	6.56
111	1,2,4,5-Tetrachlorobenzen	0.513	0.522	-1.8	110	0.00	5.87

(#) = Out of Range SPCC's out = 0 CCC's out = 0
z109757a.D MZ5485.M Thu Apr 14 13:35:22 2016 RTE

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EZ5486-ICV5486
Lab FileID: Z109762A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5486\z109762.D          Vial: 24
Acq On    : 14 Apr 2016  10:03 am                   Operator: sarad
Sample    : icv5486-50                              Inst    : MSZ
Misc      : op92825,ez5486                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Apr 14 12:08:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	104	0.00	4.33
103	Benzaldehyde	1.056	1.064	-0.8	106	0.00	4.02
104	Phenanthrene-d10a	1.000	1.000	0.0	95	0.00	8.22
107	Atrazine	0.100	0.101	-1.0	107	0.00	7.89

(#) = Out of Range SPCC's out = 0 CCC's out = 0
z109757a.D MZ5485.M Thu Apr 14 13:07:03 2016 RTE

Initial Calibration Verification

Job Number: JC19423 **Sample:** EZ5486-ICV5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z109762.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5486\z109762.D          Vial: 24
Acq On    : 14 Apr 2016  10:03 am                   Operator: sarad
Sample    : icv5485-50                              Inst    : MSZ
Misc      : op92825,ez5486                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Apr 14 12:08:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	118	0.00	4.33
2		1,4-Dioxane	0.594	0.532	10.4	109	0.02	1.81
6	t	Indene	2.542	2.429	4.4	122	0.00	4.52
7	t	Cumene	3.243	3.003	7.4	113	0.00	3.72
13	t	Decane	1.396	1.291	7.5	122	0.00	4.19
18	t	Acetophenone	1.763	1.643	6.8	112	0.00	4.64
24	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00	5.25
27	t	Quinoline	0.757	0.703	7.1	110	0.00	5.51
40	t	2,3-Dichloroaniline	0.352	0.275	21.9	97	0.00	5.98
41	t	Caprolactam	0.142	0.116	18.3	96	-0.02	5.58
45	t	1-Methylnaphthalene	0.654	0.578	11.6	107	0.00	5.82
46	t	Dimethylnaphthalene	0.632	0.586	7.3	113	0.00	6.21
47	I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00	6.55
53	t	Biphenyl	1.588	1.444	9.1	108	0.00	6.09
69	I	Phenanthrene-d10	1.000	1.000	0.0	105	0.00	8.22
82	t	Octadecane	0.496	0.480	3.2	108	0.00	8.07
92	I	Perylene-d12	1.000	1.000	0.0	93	-0.01	16.19
100	t	7,12-Dimethylbenz(a)anthr	0.575	0.511	11.1	88	-0.01	15.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
z109757a.D MZ5485.M Thu Apr 14 13:07:03 2016 RTE

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EZ5486-ICV5486
Lab FileID: Z109763.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5486\z109763.D          Vial: 25
Acq On    : 14 Apr 2016  10:35 am                   Operator: sarad
Sample    : icv5486-50                              Inst    : MSZ
Misc      : op92825,ez5486                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Apr 14 12:08:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
112 I	Naphthalene-d8a	1.000	1.000	0.0	93	0.00	5.25
113	Hydroquinone	0.267	0.303	-13.5	95	0.00	5.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
z109757a.D MZ5485.M Thu Apr 14 13:07:05 2016 RTE

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EZ5486-ICV5485
Lab FileID: Z109764.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5486\z109764.D          Vial: 26
Acq On    : 14 Apr 2016  11:06 am                   Operator: sarad
Sample    : icv5485-50                              Inst    : MSZ
Misc      : op92825,ez5486                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Apr 14 12:08:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83	I	Chrysene-d12	1.000	1.000	0.0	101	-0.02	13.20
89	t	3,3'-Dichlorobenzidine	0.422	0.405	4.0	101	-0.01	13.28

(#) = Out of Range SPCC's out = 0 CCC's out = 0
z109757a.D MZ5485.M Thu Apr 14 13:07:07 2016 RTE

Continuing Calibration Summary

Job Number: JC19423 **Sample:** EZ5515-CC5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z110383.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5515\Z110383.D          Vial: 2
Acq On    :  5 May 2016   9:50 am                   Operator: ariellec
Sample    : cc5485-25                               Inst    : MSZ
Misc      : op93086,ez5515                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu May 05 11:46:32 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	67	0.00	4.18
2		1,4-Dioxane	0.594	0.533	10.3	66	-0.03	1.61
3	t	Pyridine	0.934	0.645	30.9#	42#	-0.16	1.94
4	t	N-Nitrosodimethylamine	0.778	0.688	11.6	58	-0.03	1.92
5	S	2-Fluorophenol	1.381	1.148	16.9	59	0.02	3.27
6	t	Indene	2.542	2.329	8.4	65	0.00	4.37
7	t	Cumene	3.243	3.072	5.3	67	0.00	3.56
8	S	Phenol-d5	1.619	1.703	-5.2	74	0.00	4.04
9	t	Phenol	1.643	1.395	15.1	60	0.00	4.05
10	t	Aniline	1.890	1.591	15.8	57	0.00	3.97
11	t	bis(2-Chloroethyl)ether	1.125	1.087	3.4	73	0.00	4.00
12	t	2-Chlorophenol	1.515	1.297	14.4	64	0.01	4.07
13	t	Decane	1.396	1.296	7.2	66	0.00	4.04
14	t	1,3-Dichlorobenzene	1.648	1.537	6.7	66	0.00	4.13
15	t	1,4-Dichlorobenzene	1.564	1.501	4.0	68	0.00	4.19
16	t	Benzyl alcohol	0.693	0.575	17.0	57	0.00	4.33
17	t	1,2-Dichlorobenzene	1.515	1.414	6.7	67	0.00	4.31
18	t	Acetophenone	1.763	1.729	1.9	70	0.02	4.49
19	t	2-Methylphenol	1.284	1.128	12.1	66	0.00	4.46
20	t	2,2'-oxybis(1-Chloropropa	0.393	0.311	20.9#	60	0.01	4.39
21	t	3&4-Methylphenol	1.340	1.197	10.7	65	0.01	4.58
22	t	n-Nitroso-di-n-propylamin	0.912	0.982	-7.7	76	0.00	4.49
23	t	Hexachloroethane	0.456	0.599	-31.4#	90	0.01	4.54
24	I	Naphthalene-d8	1.000	1.000	0.0	66	0.00	5.11
25	S	Nitrobenzene-d5	0.323	0.389	-20.4#	82	0.00	4.61
26	t	Nitrobenzene	0.325	0.392	-20.6#	82	0.00	4.62
27	t	Quinoline	0.757	0.698	7.8	63	0.00	5.37
28	t	Isophorone	0.566	0.648	-14.5	77	0.00	4.78
29	t	2-Nitrophenol	0.202	0.190	5.9	62	0.00	4.85
30	t	2,4-Dimethylphenol	0.318	0.350	-10.1	73	0.01	4.92
31		Benzoic Acid	0.229	0.227	0.9	64	0.04	5.06
32	t	bis(2-Chloroethoxy)methan	0.351	0.346	1.4	69	0.00	4.94
33	t	2,4-Dichlorophenol	0.280	0.291	-3.9	69	0.02	5.06
34		2,6-Dichlorophenol	0.274	0.311	-13.5	75	0.01	5.20
35	t	1,3,5-Trichlorobenzene	0.313	0.364	-16.3	78	0.00	4.83
36	t	1,2,4-Trichlorobenzene	0.292	0.332	-13.7	78	0.00	5.06
37	t	1,2,3-Trichlorobenzene	0.284	0.320	-12.7	76	0.00	5.23
38	t	Naphthalene	1.098	1.027	6.5	64	0.00	5.12
39	t	4-Chloroaniline	0.437	0.410	6.2	65	0.01	5.20
40	t	2,3-Dichloroaniline	0.352	0.360	-2.3	70	0.03	5.84
41	t	Caprolactam	0.142	0.125	12.0	61	0.03	5.46

Continuing Calibration Summary

Job Number: JC19423 **Sample:** EZ5515-CC5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z110383.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.130	0.216	-66.2#	106	0.00	5.20
43	t	4-Chloro-3-methylphenol	0.297	0.317	-6.7	70	0.03	5.59
44	t	2-Methylnaphthalene	0.611	0.575	5.9	62	0.00	5.61
45	t	1-Methylnaphthalene	0.654	0.613	6.3	63	0.01	5.68
46	t	Dimethylnaphthalene	0.632	0.656	-3.8	71	0.02	6.05
47	I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00	6.38
48	t	Hexachlorocyclopentadiene	0.267	0.315	-18.0	87	0.00	5.71
49	t	2,4,6-Trichlorophenol	0.330	0.330	0.0	79	0.00	5.84
50	t	2,4,5-Trichlorophenol	0.358	0.337	5.9	74	0.01	5.89
51	S	2-Fluorobiphenyl	1.282	1.210	5.6	75	0.02	5.87
52	t	2-Chloronaphthalene	1.133	0.986	13.0	72	0.02	5.95
53	t	Biphenyl	1.588	1.335	15.9	70	0.02	5.94
54	t	2-Nitroaniline	0.306	0.327	-6.9	82	0.04	6.07
55	t	Dimethylphthalate	1.273	1.197	6.0	75	0.01	6.18
56	t	Acenaphthylene	1.991	1.713	14.0	69	0.00	6.26
57	t	2,6-Dinitrotoluene	0.279	0.267	4.3	77	0.02	6.23
58	t	3-Nitroaniline	0.337	0.262	22.3#	61	0.02	6.40
59	t	Acenaphthene	1.191	1.063	10.7	72	0.00	6.40
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	44.358	11.3	70	0.02	6.48
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.155	0.166	-7.1	91	0.01	6.67
62	t	Dibenzofuran	1.645	1.444	12.2	71	0.00	6.55
63	t	2,4-Dinitrotoluene	0.363	0.368	-1.4	79	0.02	6.58
64		2,3,4,6-Tetrachlorophenol	0.284	0.299	-5.3	82	0.00	6.70
65	t	Diethylphthalate	1.306	1.236	5.4	79	0.00	6.77
66	t	Fluorene	1.354	1.202	11.2	73	0.00	6.87
67	t	4-Chlorophenyl-phenylethe	0.558	0.621	-11.3	88	0.00	6.87
68	t	4-Nitroaniline	0.337	0.279	17.2	61	0.00	6.99
69	I	Phenanthrene-d10	1.000	1.000	0.0	78	0.00	7.96
70	t	4,6-Dinitro-2-methylpheno	0.119	0.128	-7.6	85	0.05	6.97
71	t	n-Nitrosodiphenylamine	0.582	0.529	9.1	74	0.02	7.01
72	t	1,2-Diphenylhydrazine	0.695	0.734	-5.6	85	0.04	7.03
73	S	2,4,6-Tribromophenol	0.123	0.131	-6.5	89	0.03	7.14
74	t	4-Bromophenyl-phenylether	0.208	0.229	-10.1	89	0.00	7.39
75	t	Hexachlorobenzene	0.233	0.262	-12.4	94	0.02	7.47
76	t	Pentachlorophenol	0.124	0.138	-11.3	87	0.02	7.78
77	t	Phenanthrene	1.145	1.052	8.1	76	0.00	8.00
78	t	Anthracene	1.179	1.090	7.5	75	0.00	8.06
79	t	Carbazole	1.125	1.014	9.9	72	0.00	8.36
80	t	Di-n-butylphthalate	1.384	1.346	2.7	78	0.00	8.92
81	t	Fluoranthene	1.195	1.226	-2.6	84	0.07	9.92
82	t	Octadecane	0.496	0.385	22.4#	64	0.00	7.81
83	I	Chrysene-d12	1.000	1.000	0.0	86	0.00	12.87
84	t	Pyrene	1.349	1.279	5.2	87	0.05	10.34
85		Butyl stearate	0.365	0.278	23.8#	66	0.07	12.04
86	S	Terphenyl-d14	0.840	0.837	0.4	92	0.10	10.73
87	t	Butylbenzylphthalate	0.644	0.608	5.6	83	0.08	11.85
88	t	Benzo[a]anthracene	1.168	1.188	-1.7	91	0.00	12.85
89	t	3,3'-Dichlorobenzidine	0.422	0.421	0.2	86	0.08	12.95
90	t	Chrysene	1.140	1.135	0.4	90	0.00	12.92
91	t	bis(2-Ethylhexyl)phthalat	0.906	0.827	8.7	81	0.00	13.17
92	I	Perylene-d12	1.000	1.000	0.0	92	0.02	15.86
93	t	Di-n-octylphthalate	1.541	1.342	12.9	78	0.00	14.57

Continuing Calibration Summary

Job Number: JC19423 **Sample:** EZ5515-CC5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z110383.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[b]fluoranthene	1.263	1.167	7.6	91	0.01	15.12
95	t	Benzo[k]fluoranthene	1.134	1.105	2.6	93	0.02	15.16
96	t	Benzo[a]pyrene	1.124	1.106	1.6	91	0.08	15.73
97	t	Indeno[1,2,3-cd]pyrene	1.124	1.115	0.8	95	0.04	17.78
98	t	Dibenz(a,h)acridine	1.064	0.968	9.0	87	0.04	17.41
99	t	Dibenz[a,h]anthracene	1.183	1.100	7.0	89	0.00	17.82
100	t	7,12-Dimethylbenz(a)anthr	0.575	0.527	8.3	91	0.00	15.11
101	t	Benzo[g,h,i]perylene	1.208	1.100	8.9	89	0.04	18.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z110097.D MZ5485.M Thu May 05 11:52:12 2016 RTE

Continuing Calibration Summary

Job Number: JC19423 **Sample:** EZ5515-CC5486
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z110384.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5515\Z110384.D          Vial: 3
Acq On    :  5 May 2016  10:19 am                   Operator: ariellec
Sample    : cc5486-25                               Inst    : MSZ
Misc      : op93086,ez5515                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5485.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu May 05 11:46:32 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	57	0.00	4.18
103	Benzaldehyde	1.056	0.881	16.6	47#	0.08	3.87
104	Phenanthrene-d10a	1.000	1.000	0.0	67	0.00	7.96
105	Atrazine	0.100	0.115	-15.0	82	0.03	7.65
106	Chrysene-d12a	1.000	1.000	0.0	72	0.00	12.86
107	Benzidine	0.547	0.414	24.3#	52	0.04	10.31
108	Acenaphthene-d10a	1.000	1.000	0.0	70	0.00	6.37
109	1,2,4,5-Tetrachlorobenzen	0.513	0.584	-13.8	80	0.01	5.73
110 I	Naphthalene-d8a	1.000	1.000	0.0	55	0.00	5.11
111	Hydroquinone	0.264	0.307	-16.3	59	0.05	5.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z110097.D MZ5485.M Thu May 05 11:52:15 2016 RTE

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83105.D
Acq On : 11 May 2016 6:35 pm
Operator : ashleyn
Sample : jc19423-1
Misc : op93597,e3e3643,30.0
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 13 12:16:07 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu May 12 10:30:24 2016
QLast Update : Thu May 12 10:31:50 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.420	152	116299	40.00	ppm	-0.11
24) Naphthalene-d8	5.463	136	437891	40.00	ppm	-0.14
47) Acenaphthene-d10	7.463	164	276650	40.00	ppm	-0.17
69) Phenanthrene-d10	9.614	188	460873	40.00	ppm	-0.19
83) Chrysene-d12	13.780	240	417946	40.00	ppm	-0.21
92) Perylene-d12	15.893	264	300789	40.00	ppm	-0.20
102) 1,4-Dichlorobenzene-d4a	4.420	152	116299	40.00	ppm	-0.11
104) Acenaphthene-d10a	7.463	164	276650	40.00	ppm	-0.17
106) Phenanthrene-d10a	9.614	188	460873	40.00	ppm	-0.19
108) Chrysene-d12a	13.780	240	417946	40.00	ppm	-0.21
110) Naphthalene-d8a	5.463	136	437891	40.00	ppm	-0.14

System Monitoring Compounds						
5) 2-Fluorophenol	3.468	112	118357	33.20	ppm	-0.08
Spiked Amount 50.000			Recovery = 66.40%			
8) Phenol-d5	4.211	99	150715	32.49	ppm	-0.08
Spiked Amount 50.000			Recovery = 64.98%			
25) Nitrobenzene-d5	4.853	82	172448	39.38	ppm	-0.12
Spiked Amount 50.000			Recovery = 78.76%			
51) 2-Fluorobiphenyl	6.618	172	355765	38.78	ppm	-0.16
Spiked Amount 50.000			Recovery = 77.56%			
73) 2,4,6-Tribromophenol	8.592	330	58815	36.18	ppm	-0.17
Spiked Amount 50.000			Recovery = 72.36%			
85) Terphenyl-d14	12.170	244	410163	46.75	ppm	-0.19
Spiked Amount 50.000			Recovery = 93.50%			

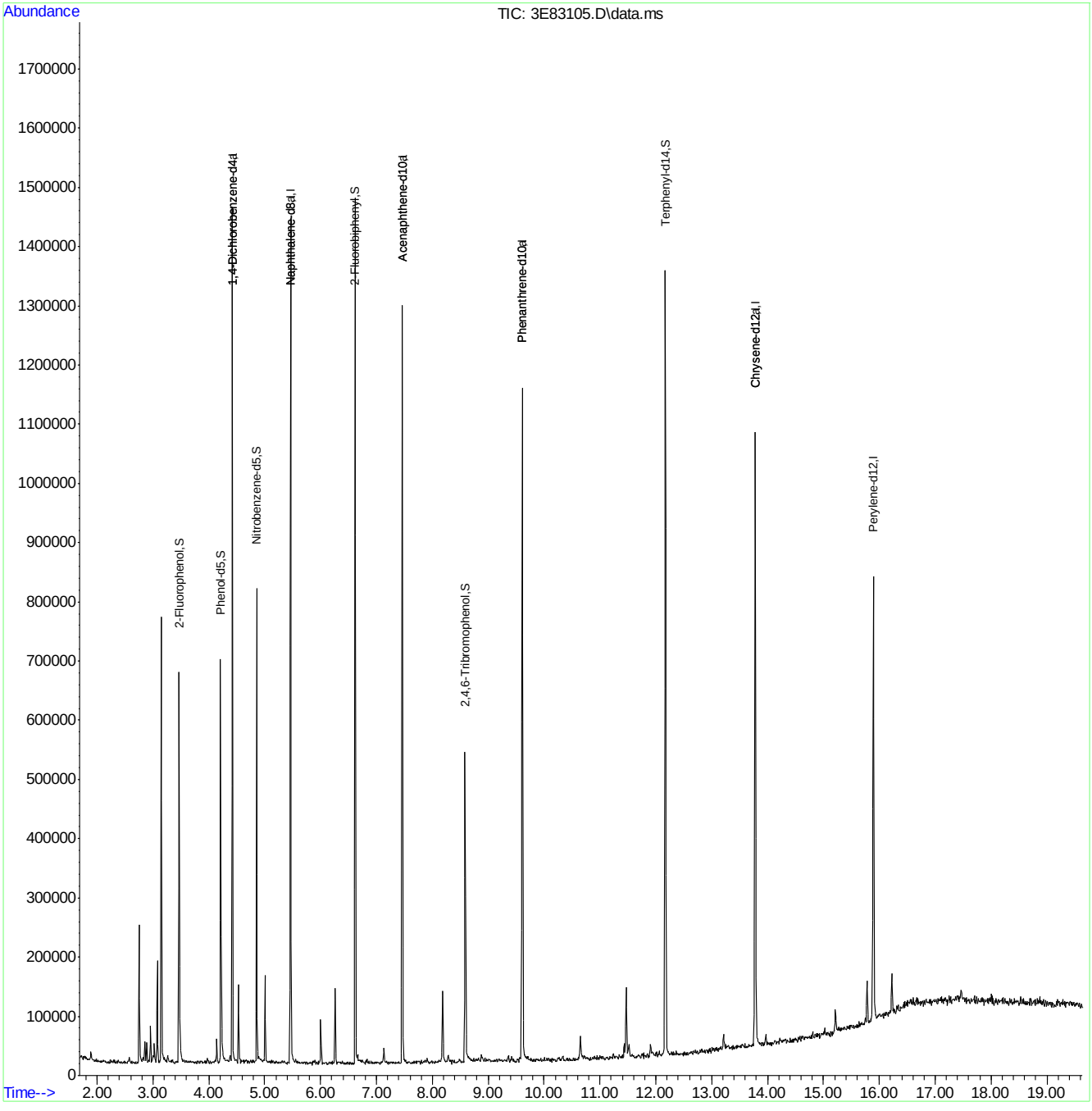
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83105.D
Acq On : 11 May 2016 6:35 pm
Operator : ashleyn
Sample : jc19423-1
Misc : op93597,e3e3643,30.0
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 13 12:16:07 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu May 12 10:30:24 2016
QLast Update : Thu May 12 10:31:50 2016
Response via : Initial Calibration



M3E3623.M Fri May 13 12:16:18 2016 MS3E

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27906.D
Acq On : 3 May 2016 10:27 am
Operator : ashleyd
Sample : jc19423-2
Misc : op93534,e5p1416,920
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 03 12:20:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration

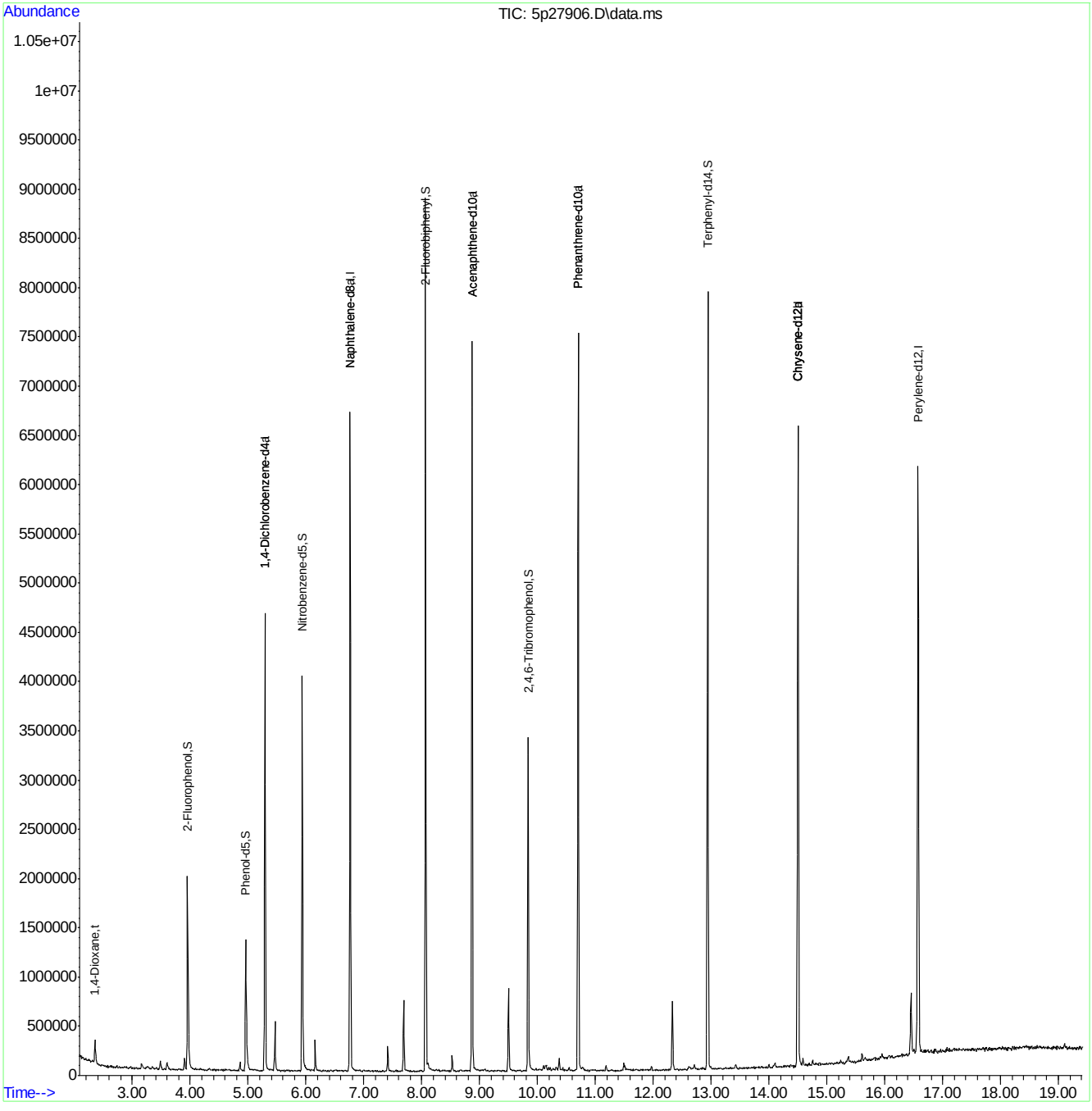
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.293	152	786733	40.00	ppm	0.00
24) Naphthalene-d8	6.762	136	3159965	40.00	ppm	0.00
47) Acenaphthene-d10	8.872	164	1845429	40.00	ppm	0.00
69) Phenanthrene-d10	10.704	188	3071730	40.00	ppm	0.00
83) Chrysene-d12	14.503	240	2960975	40.00	ppm	0.00
92) Perylene-d12	16.576	264	2808773	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.293	152	786733	40.00	ppm	0.00
104) Acenaphthene-d10a	8.872	164	1845429	40.00	ppm	0.00
106) Chrysene-d12a	14.503	240	2960692	40.00	ppm	0.00
109) Phenanthrene-d10a	10.704	188	3071730	40.00	ppm	0.00
112) Naphthalene-d8a	6.762	136	3159965	40.00	ppm	0.00
114) Chrysene-d12b	14.503	240	2960692	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.952	112	661581	27.44	ppm	0.02
Spiked Amount 50.000			Recovery	=	54.88%	
8) Phenol-d5	4.961	99	509048	18.58	ppm	0.00
Spiked Amount 50.000			Recovery	=	37.16%	
25) Nitrobenzene-d5	5.934	82	1211459	50.51	ppm	0.08
Spiked Amount 50.000			Recovery	=	101.02%	
51) 2-Fluorobiphenyl	8.065	172	2949843	50.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.42%	
73) 2,4,6-Tribromophenol	9.839	330	403790	54.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	108.90%	
85) Terphenyl-d14	12.943	244	2935835	49.33	ppm	0.00
Spiked Amount 50.000			Recovery	=	98.66%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.354	88	91540	9.92	ppm	99

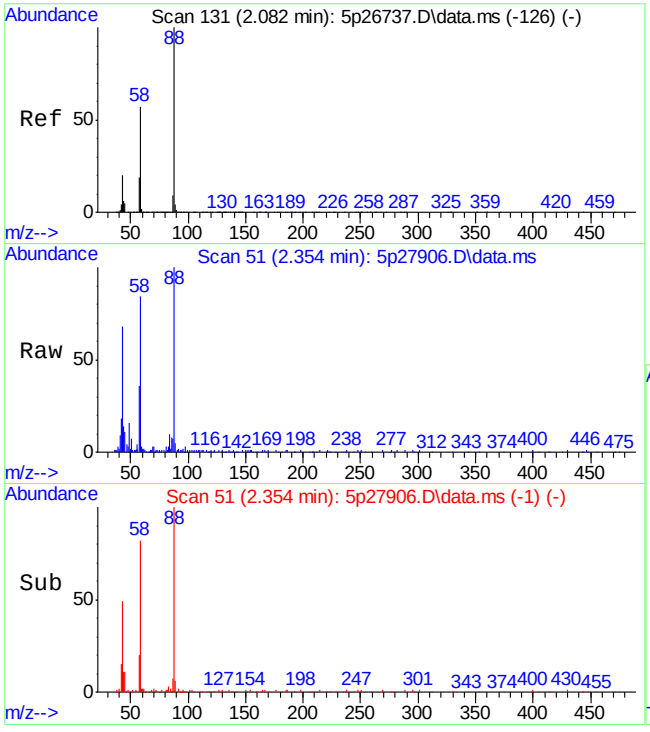
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27906.D
Acq On : 3 May 2016 10:27 am
Operator : ashleyd
Sample : jc19423-2
Misc : op93534,e5p1416,920
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 03 12:20:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration

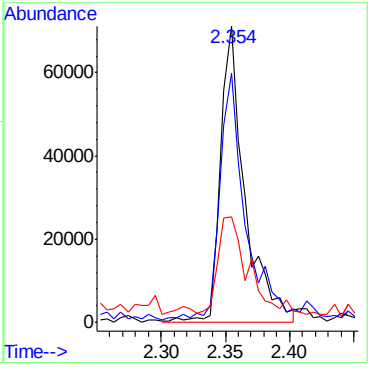




#2
1,4-Dioxane
Concen: 9.92 ppm
RT: 2.354 min Scan# 51
Delta R.T. 0.056 min
Lab File: 5p27906.D
Acq: 3 May 16 10:27 am

Tgt Ion: 88 Resp: 91540

Ion	Ratio	Lower	Upper
88	100		
58	83.6	54.0	114.0
57	33.0	4.2	64.2



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61124.D
Acq On : 6 May 2016 11:42 am
Operator : linseyk
Sample : jc19423-1
Misc : op93597a,e3m2874,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 06 14:16:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 14:14:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.427	150	322020	4.00	ppm	0.00
14) Fluorene-d10	13.430	176	446441	4.00	ppm	0.00
21) Fluoranthene-d10	17.639	212	709643	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.243	264	568535	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.384	112	1646795	40.88	ppm	-0.04
Spiked Amount 50.000			Recovery = 81.76%			
4) Phenol-d5	5.988	99	2554458	38.32	ppm	0.00
Spiked Amount 50.000			Recovery = 76.64%			
7) Nitrobenzene-d5	7.550	82	2520162	40.66	ppm	-0.02
Spiked Amount 50.000			Recovery = 81.32%			
15) 2-Fluorobiphenyl	11.099	172	5203281	42.42	ppm	-0.03
Spiked Amount 50.000			Recovery = 84.84%			
20) 2,4,6-Tribromophenol	13.976	330	604654	43.28	ppm	0.03
Spiked Amount 50.000			Recovery = 86.56%			
28) Terphenyl-d14	18.458	244	4963100	48.21	ppm	0.02
Spiked Amount 50.000			Recovery = 96.42%			
Target Compounds						Qvalue

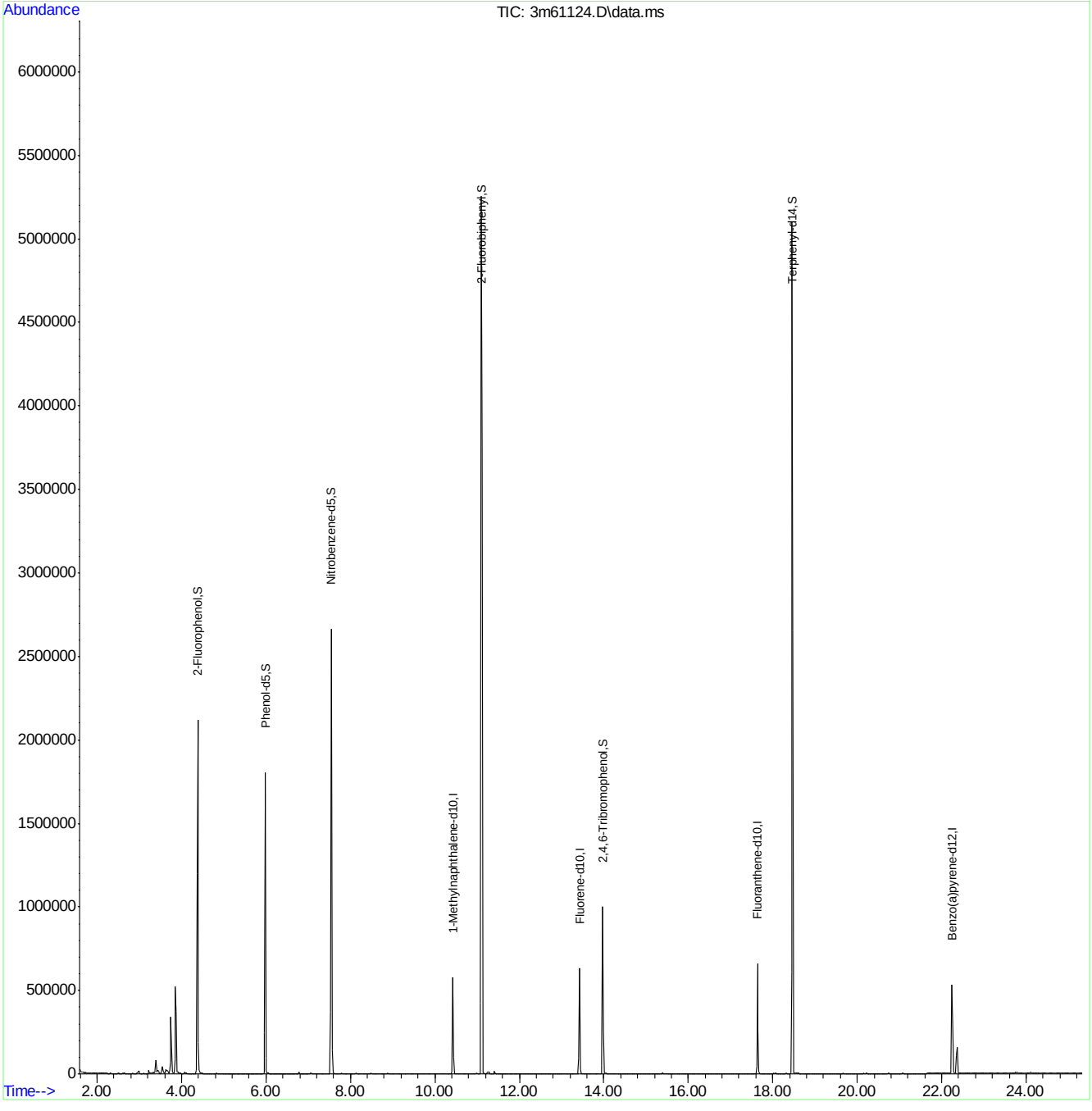
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61124.D
Acq On : 6 May 2016 11:42 am
Operator : linseyk
Sample : jc19423-1
Misc : op93597a,e3m2874,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 06 14:16:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 14:14:16 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m61012.D
Acq On : 2 May 2016 11:12 pm
Operator : linseyk
Sample : jc19423-2
Misc : op93534a,e3m2868,920
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 03 11:07:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	382307	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	498261	4.00	ppm	-0.16
21) Fluoranthene-d10	17.700	212	806658	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.305	264	622107	4.00	ppm	-0.15
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	1215775	25.42	ppm	-0.09
Spiked Amount 50.000			Recovery = 50.84%			
4) Phenol-d5	6.000	99	1238838	15.65	ppm	-0.09
Spiked Amount 50.000			Recovery = 31.30%			
7) Nitrobenzene-d5	7.606	82	3075730	41.80	ppm	-0.11
Spiked Amount 50.000			Recovery = 83.60%			
15) 2-Fluorobiphenyl	11.160	172	6217238	45.41	ppm	-0.14
Spiked Amount 50.000			Recovery = 90.82%			
20) 2,4,6-Tribromophenol	14.033	330	727492	46.65	ppm	-0.14
Spiked Amount 50.000			Recovery = 93.30%			
28) Terphenyl-d14	18.519	244	5892431	50.36	ppm	-0.14
Spiked Amount 50.000			Recovery = 100.72%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	152177	7.70	ppm	89

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

7.1.4

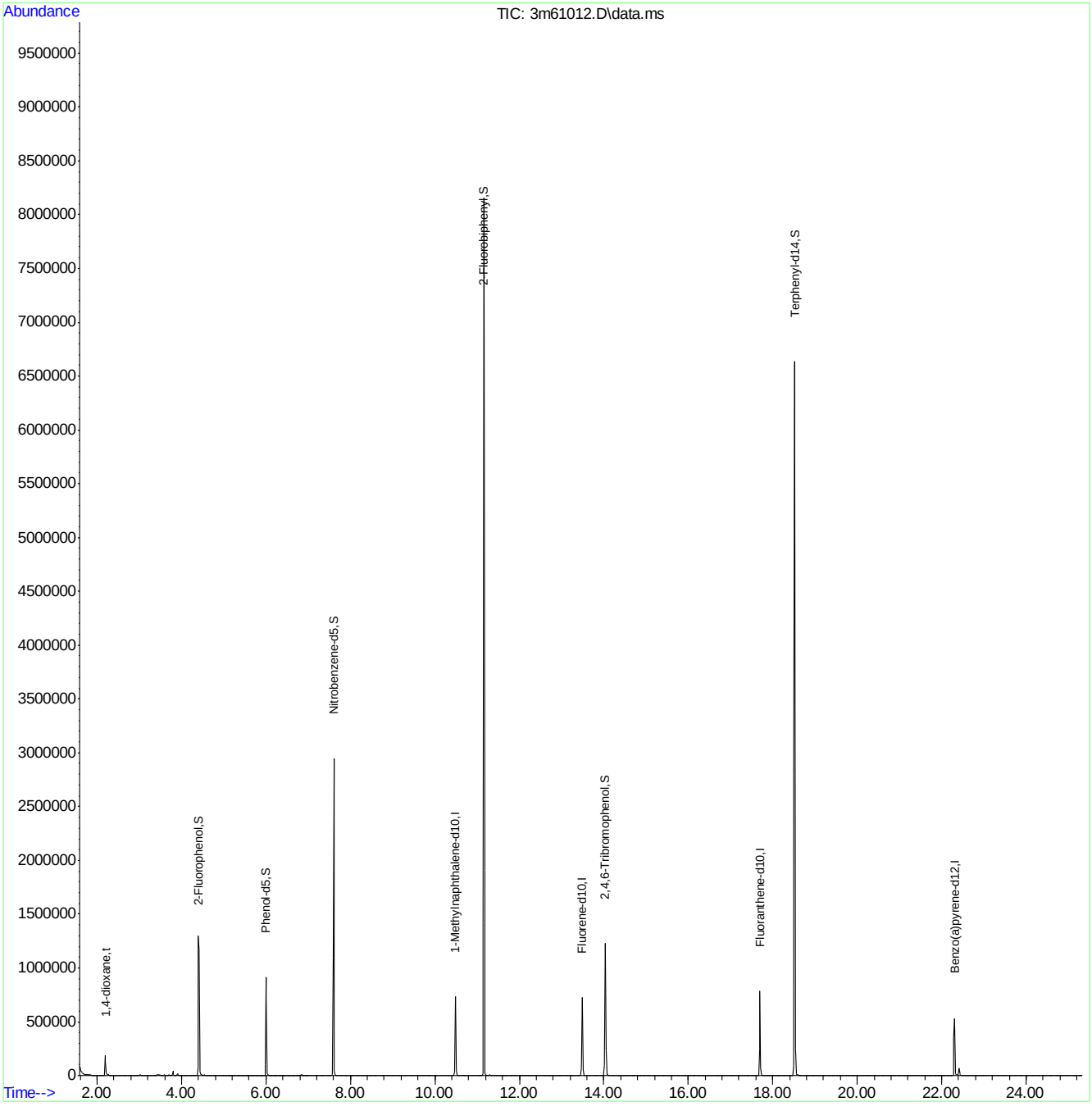
7

SGS ACCUTEST JC19423

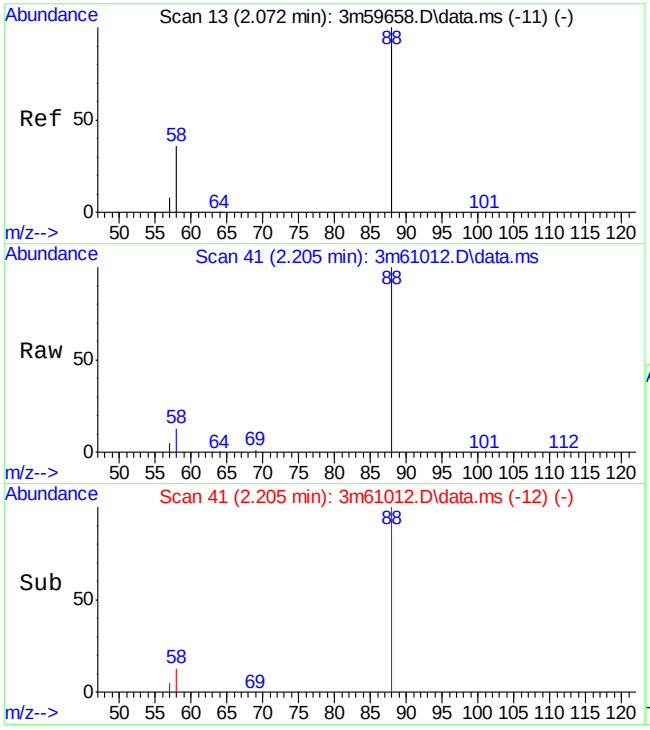
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m61012.D
Acq On : 2 May 2016 11:12 pm
Operator : linseyk
Sample : jc19423-2
Misc : op93534a,e3m2868,920
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 03 11:07:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



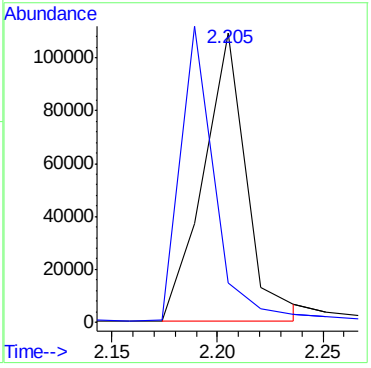
SGS ACCUTEST JC19423



#2
1,4-dioxane
Concen: 7.70 ppm
RT: 2.205 min Scan# 41
Delta R.T. -0.046 min
Lab File: 3m61012.D
Acq: 2 May 2016 11:12 pm

Tgt Ion: 88 Resp: 152177

Ion	Ratio	Lower	Upper
88	100		
58	12.1	0.0	36.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27879.D
Acq On : 2 May 2016 12:16 pm
Operator : ashleyn
Sample : op93534-mb1
Misc : op93534,e5p1414,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 02 14:22:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 11:22:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.100	152	668118	40.00	ppm	0.00
24) Naphthalene-d8	6.564	136	2609070	40.00	ppm	0.00
47) Acenaphthene-d10	8.669	164	1473168	40.00	ppm	0.00
69) Phenanthrene-d10	10.491	188	2452352	40.00	ppm	0.00
83) Chrysene-d12	14.252	240	2354797	40.00	ppm	-0.01
92) Perylene-d12	16.314	264	2340984	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.100	152	668118	40.00	ppm	0.00
104) Acenaphthene-d10a	8.669	164	1473168	40.00	ppm	0.00
106) Chrysene-d12a	14.252	240	2354797	40.00	ppm	-0.01
109) Phenanthrene-d10a	10.491	188	2452352	40.00	ppm	0.00
112) Naphthalene-d8a	6.564	136	2609070	40.00	ppm	0.00
114) Chrysene-d12b	14.252	240	2354797	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.770	112	632211	30.88	ppm	-0.02
Spiked Amount 50.000			Recovery	=	61.76%	
8) Phenol-d5	4.780	99	494974	21.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	42.56%	
25) Nitrobenzene-d5	5.741	82	1030532	52.04	ppm	0.06
Spiked Amount 50.000			Recovery	=	104.08%	
51) 2-Fluorobiphenyl	7.873	172	2278476	48.58	ppm	-0.01
Spiked Amount 50.000			Recovery	=	97.16%	
73) 2,4,6-Tribromophenol	9.636	330	317804	53.68	ppm	-0.01
Spiked Amount 50.000			Recovery	=	107.36%	
85) Terphenyl-d14	12.713	244	2551040	53.90	ppm	-0.01
Spiked Amount 50.000			Recovery	=	107.80%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds Qvalue

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

7.2.1

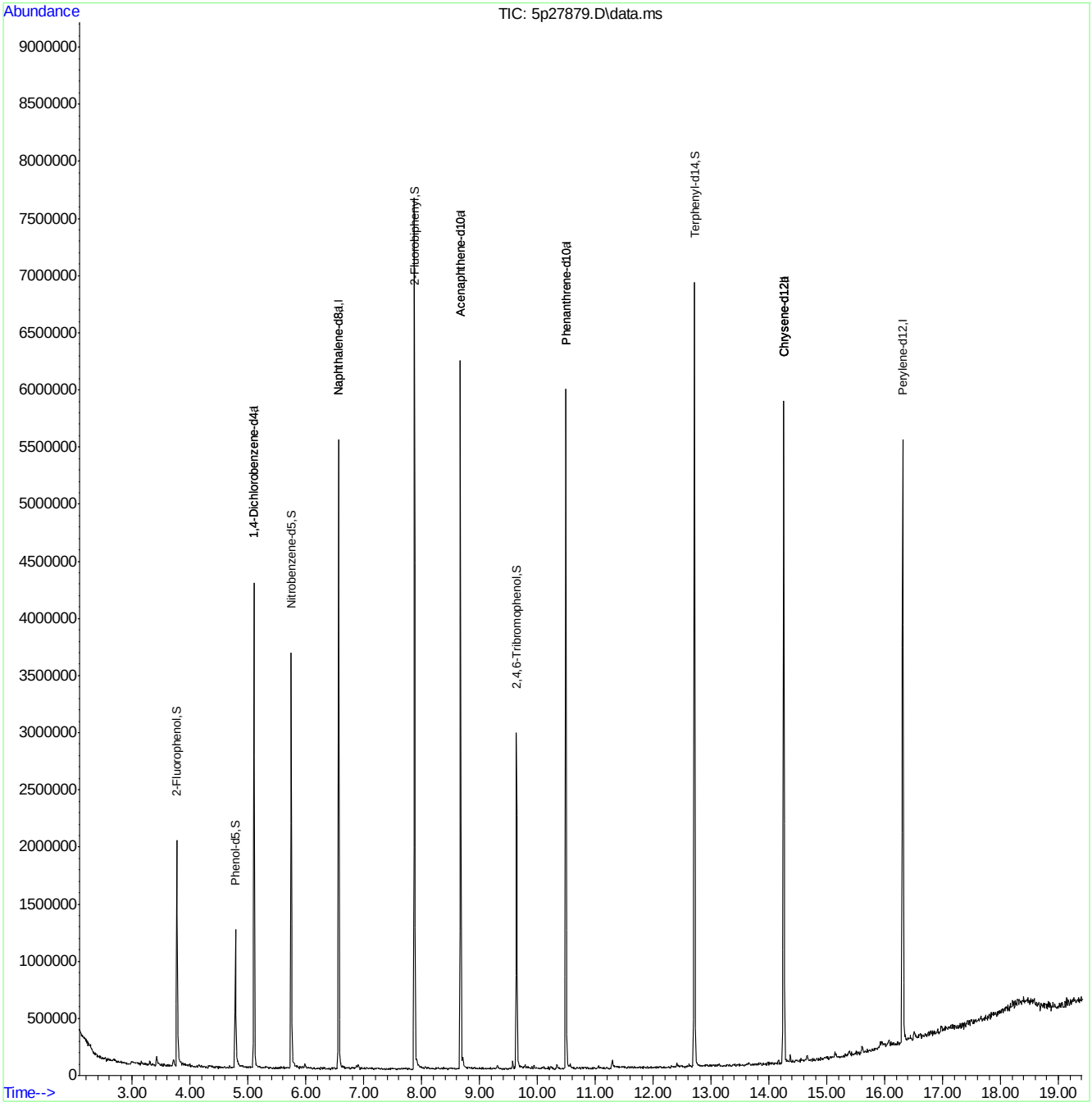
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27879.D
Acq On : 2 May 2016 12:16 pm
Operator : ashleyn
Sample : op93534-mb1
Misc : op93534,e5p1414,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 02 14:22:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 11:22:37 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82888.D
Acq On : 4 May 2016 6:08 pm
Operator : ashleyn
Sample : op93534-mb1
Misc : op93534,e3e3634,1000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 05 09:00:42 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu May 05 08:44:05 2016
QLast Update : Thu May 05 08:44:05 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.486	152	180984	40.00 ppm	-0.05
24) Naphthalene-d8	5.545	136	715705	40.00 ppm	-0.06
47) Acenaphthene-d10	7.567	164	447748	40.00 ppm	-0.01
69) Phenanthrene-d10	9.728	188	787444	40.00 ppm	-0.03
83) Chrysene-d12	13.905	240	843011	40.00 ppm	-0.03
92) Perylene-d12	16.018	264	623574	40.00 ppm	-0.07
102) 1,4-Dichlorobenzene-d4a	4.486	152	180984	40.00 ppm	-0.05
104) Acenaphthene-d10a	7.567	164	447748	40.00 ppm	-0.08
106) Phenanthrene-d10a	9.728	188	787444	40.00 ppm	-0.03
108) Chrysene-d12a	13.905	240	843011	40.00 ppm	-0.09
110) Naphthalene-d8a	5.545	136	715705	40.00 ppm	-0.06

System Monitoring Compounds

5) 2-Fluorophenol	3.518	112	159003	28.66 ppm	-0.03
Spiked Amount 50.000			Recovery	= 57.32%	
8) Phenol-d5	4.256	99	129641	17.96 ppm	-0.03
Spiked Amount 50.000			Recovery	= 35.92%	
25) Nitrobenzene-d5	4.925	82	341175	47.67 ppm	-0.05
Spiked Amount 50.000			Recovery	= 95.34%	
51) 2-Fluorobiphenyl	6.711	172	706796	47.60 ppm	-0.01
Spiked Amount 50.000			Recovery	= 95.20%	
73) 2,4,6-Tribromophenol	8.695	330	153047	55.11 ppm	-0.03
Spiked Amount 50.000			Recovery	= 110.22%	
85) Terphenyl-d14	12.290	244	921983	52.10 ppm	-0.03
Spiked Amount 50.000			Recovery	= 104.20%	

Target Compounds Qvalue

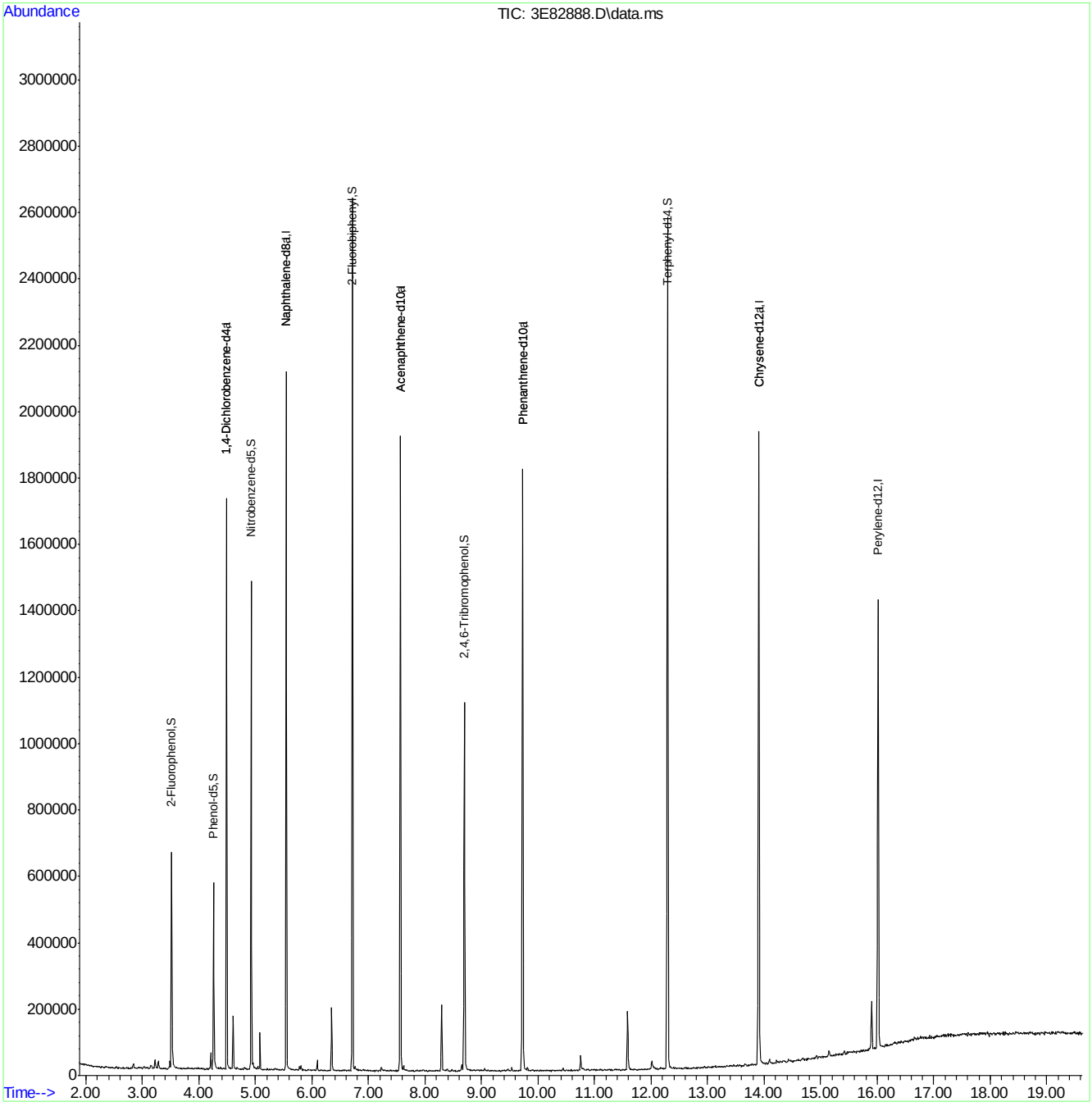
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82888.D
Acq On : 4 May 2016 6:08 pm
Operator : ashleyn
Sample : op93534-mb1
Misc : op93534,e3e3634,1000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 05 09:00:42 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu May 05 08:44:05 2016
QLast Update : Thu May 05 08:44:05 2016
Response via : Initial Calibration



M3E3623.M Thu May 05 09:00:53 2016 MS3E

SGS ACCUTEST JC19423

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110386.D
Acq On : 5 May 2016 11:18 am
Operator : ariellec
Sample : op93597-mb1
Misc : op93597,ez5515,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 05 11:51:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.176	152	232527	40.00	ppm	0.00
24) Naphthalene-d8	5.100	136	849476	40.00	ppm	0.00
47) Acenaphthene-d10	6.372	164	520135	40.00	ppm	0.00
69) Phenanthrene-d10	7.963	188	823997	40.00	ppm	0.00
83) Chrysene-d12	12.862	240	738569	40.00	ppm	0.00
92) Perylene-d12	15.849	264	700342	40.00	ppm	0.01
102) 1,4-Dichlorobenzene-d4a	4.176	152	232527	40.00	ppm	0.00
104) Phenanthrene-d10a	7.963	188	823997	40.00	ppm	0.00
106) Chrysene-d12a	12.862	240	738569	40.00	ppm	0.00
108) Acenaphthene-d10a	6.372	164	520135	40.00	ppm	0.00
110) Naphthalene-d8a	5.100	136	849476	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.268	112	313762	39.08	ppm	0.00
Spiked Amount 50.000			Recovery = 78.16%			
8) Phenol-d5	4.037	99	386397	41.07	ppm	0.00
Spiked Amount 50.000			Recovery = 82.14%			
25) Nitrobenzene-d5	4.603	82	383940	56.00	ppm	0.00
Spiked Amount 50.000			Recovery = 112.00%			
51) 2-Fluorobiphenyl	5.869	172	788401	47.29	ppm	0.02
Spiked Amount 50.000			Recovery = 94.58%			
73) 2,4,6-Tribromophenol	7.135	330	118258	46.69	ppm	0.02
Spiked Amount 50.000			Recovery = 93.38%			
86) Terphenyl-d14	10.731	244	812045	52.33	ppm	0.10
Spiked Amount 50.000			Recovery = 104.66%			

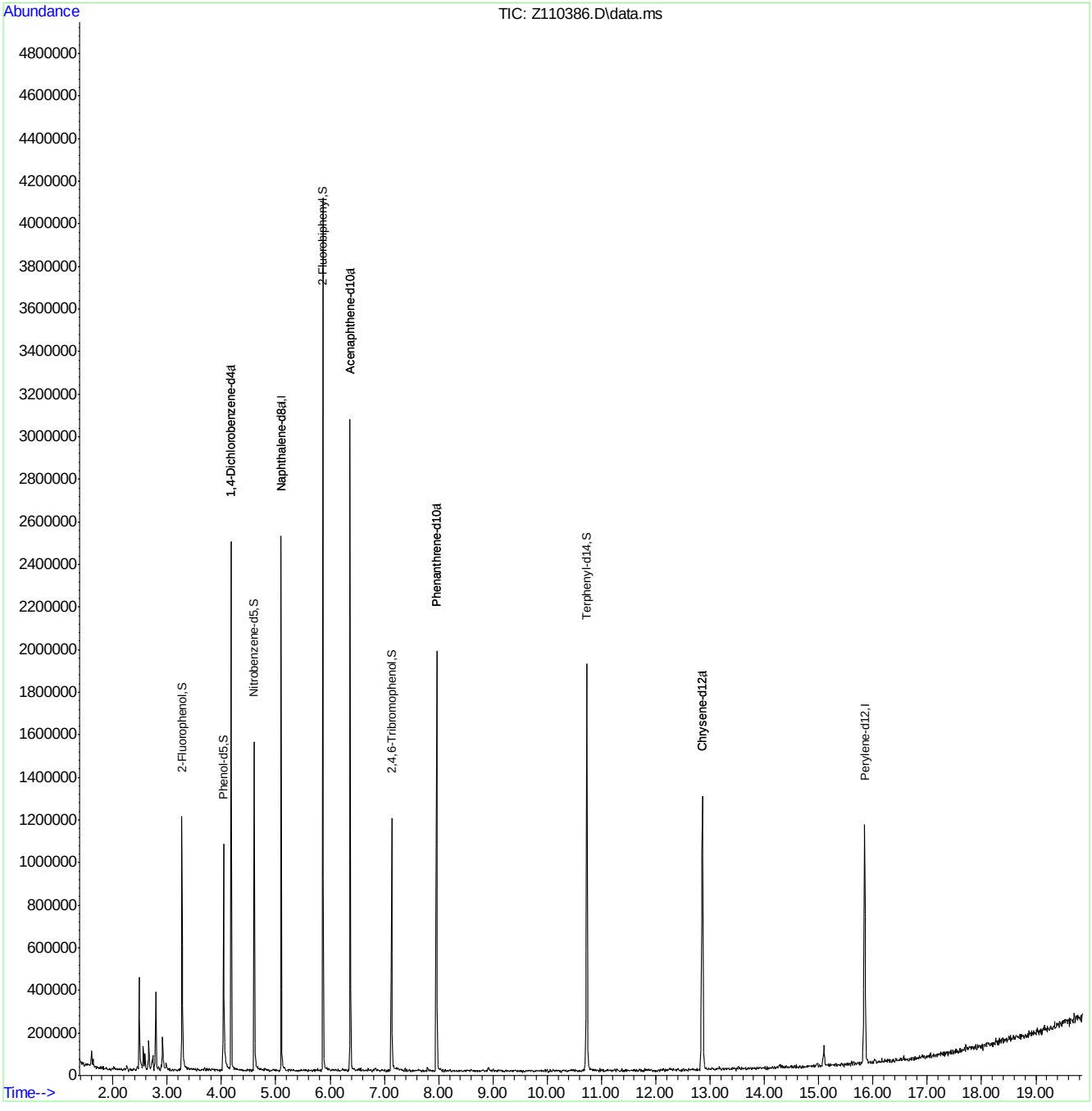
Target Compounds Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110386.D
Acq On : 5 May 2016 11:18 am
Operator : ariellec
Sample : op93597-mb1
Misc : op93597,ez5515,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 05 11:51:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration



MZ5485.M Thu May 05 11:54:19 2016 RTE

Page: 2

Quantitation Report (QT/LSC Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156832.D Vial: 6
Acq On : 5 May 2016 12:35 pm Operator: linseyk
Sample : op93597-mb1 Inst : MSF
Misc : op93597,ef6603,30.0 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 09 10:06:16 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 10:00:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.79	152	715854	40.00	ppm	-0.02
24) Naphthalene-d8	5.71	136	2897781	40.00	ppm	-0.02
47) Acenaphthene-d10	7.15	164	1616134	40.00	ppm	-0.03
69) Phenanthrene-d10	9.06	188	2481001	40.00	ppm	-0.05
83) Chrysene-d12	14.33	240	2078691	40.00	ppm	-0.05
92) Perylene-d12	17.38	264	1887285	40.00	ppm	-0.05
102) 1,4-Dichlorobenzene-d4A	4.79	152	715854	40.00	ppm	-0.02
112) Naphthalene-d8A	5.71	136	2897781	40.00	ppm	-0.02
121) Acenaphthene-d10A	7.15	164	1616134	40.00	ppm	-0.03
132) Phenanthrene-d10A	9.06	188	2481001	40.00	ppm	-0.04
147) Chrysene-d12A	14.33	240	2078691	40.00	ppm	-0.05
155) Perylene-d12A	17.38	264	1887285	40.00	ppm	-0.05
159) 1,4-Dichlorobenzene-d4b	4.79	152	715854	40.00	ppm	-0.02
161) Naphthalene-d8b	5.71	136	2897781	40.00	ppm	-0.02
163) Acenaphthene-d10b	7.15	164	1616134	40.00	ppm	-0.03
165) Phenanthrene-d10b	9.06	188	2481001	40.00	ppm	-0.04
167) Chrysene-d12b	14.33	240	2078747	40.00	ppm	-0.05
169) 1,4-Dichlorobenzene-d4c	4.79	152	715854	40.00	ppm	-0.02
171) Naphthalene-d8c	5.71	136	2897781	40.00	ppm	-0.02
176) Chrysene-d12c	14.33	240	2078747	40.00	ppm	-0.05
178) Naphthalene-d8d	5.71	136	2897781	40.00	ppm	-0.02
180) Chrysene-d12B	14.33	240	2078747	40.00	ppm	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	3.82	112	1171267	46.53	ppm	-0.02
Spiked Amount 50.000			Recovery = 93.06%			
8) Phenol-d5	4.53	99	1425005	46.55	ppm	0.00
Spiked Amount 50.000			Recovery = 93.10%			
25) Nitrobenzene-d5	5.19	82	1423152	52.59	ppm	-0.03
Spiked Amount 50.000			Recovery = 105.18%			
51) 2-Fluorobiphenyl	6.52	172	2409583	46.71	ppm	-0.02
Spiked Amount 50.000			Recovery = 93.42%			
73) 2,4,6-Tribromophenol	8.06	330	275400	54.40	ppm	-0.04
Spiked Amount 50.000			Recovery = 108.80%			
85) Terphenyl-d14	12.12	244	2200827	52.13	ppm	-0.07
Spiked Amount 50.000			Recovery = 104.26%			

Target Compounds Qvalue

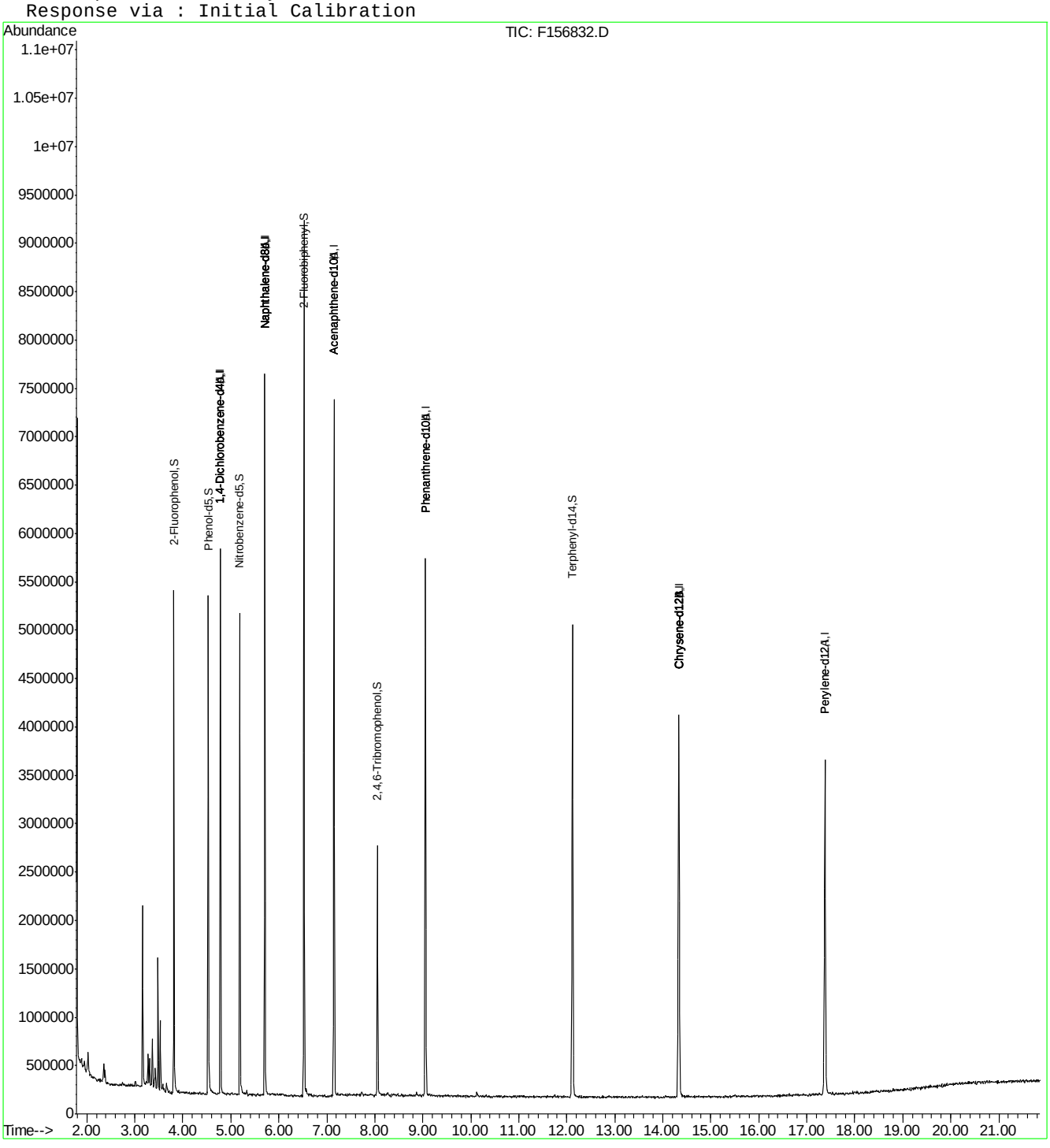
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT/LSC Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156832.D Vial: 6
Acq On : 5 May 2016 12:35 pm Operator: linseyk
Sample : op93597-mb1 Inst : MSF
Misc : op93597,ef6603,30.0 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 9 13:59 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 11:35:59 2016
Response via : Initial Calibration



F156832.D MF6563AP9.M Mon May 09 14:00:01 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83091.D
Acq On : 11 May 2016 10:41 am
Operator : ashleyn
Sample : op93597-mb1
Misc : op93597,e3e3643,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:31:21 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
QLast Update : Wed May 11 11:10:51 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.420	152	186997	40.00	ppm	0.00
24) Naphthalene-d8	5.463	136	714079	40.00	ppm	0.00
47) Acenaphthene-d10	7.463	164	452749	40.00	ppm	0.00
69) Phenanthrene-d10	9.613	188	794381	40.00	ppm	0.00
83) Chrysene-d12	13.780	240	818947	40.00	ppm	0.00
92) Perylene-d12	15.893	264	632706	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.420	152	186997	40.00	ppm	0.00
104) Acenaphthene-d10a	7.463	164	452749	40.00	ppm	0.00
106) Phenanthrene-d10a	9.613	188	794381	40.00	ppm	0.00
108) Chrysene-d12a	13.780	240	818947	40.00	ppm	0.00
110) Naphthalene-d8a	5.463	136	714079	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.473	112	221161	38.58	ppm	0.02
Spiked Amount 50.000			Recovery = 77.16%			
8) Phenol-d5	4.217	99	282808	37.92	ppm	0.04
Spiked Amount 50.000			Recovery = 75.84%			
25) Nitrobenzene-d5	4.853	82	307047	43.00	ppm	0.00
Spiked Amount 50.000			Recovery = 86.00%			
51) 2-Fluorobiphenyl	6.618	172	721966	48.08	ppm	0.00
Spiked Amount 50.000			Recovery = 96.16%			
73) 2,4,6-Tribromophenol	8.592	330	118884	42.43	ppm	0.00
Spiked Amount 50.000			Recovery = 84.86%			
85) Terphenyl-d14	12.170	244	898668	52.27	ppm	-0.01
Spiked Amount 50.000			Recovery = 104.54%			

Target Compounds	Qvalue

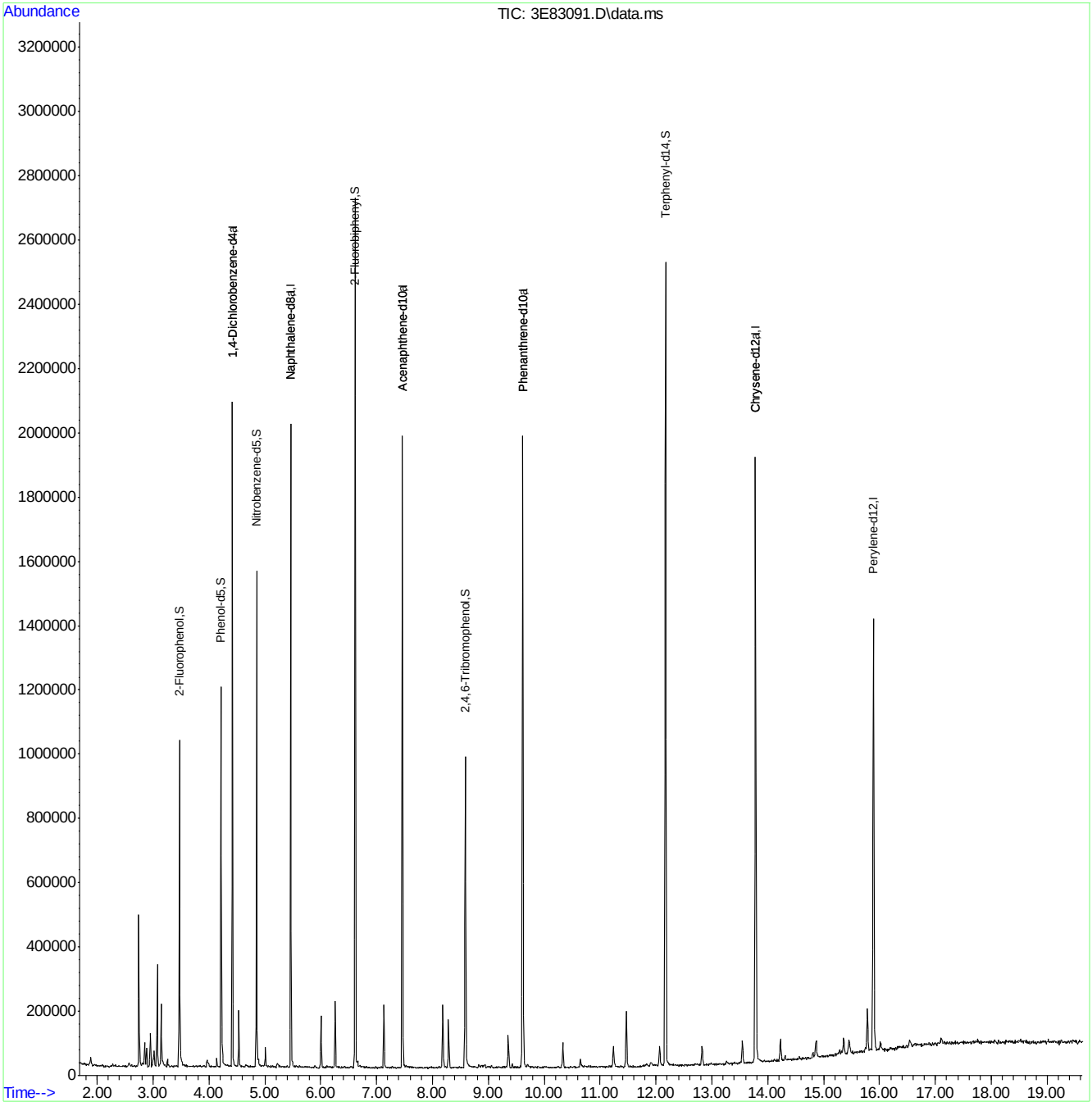
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83091.D
Acq On : 11 May 2016 10:41 am
Operator : ashleyn
Sample : op93597-mb1
Misc : op93597,e3e3643,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:31:21 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
QLast Update : Wed May 11 11:10:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m60994.D
Acq On : 2 May 2016 1:29 pm
Operator : linseyk
Sample : op93534a-mb1
Misc : op93534a,e3m2868,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 15:12:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	382292	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	522585	4.00	ppm	-0.16
21) Fluoranthene-d10	17.700	212	781237	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.289	264	648546	4.00	ppm	-0.16
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	1313014	27.45	ppm	-0.09
Spiked Amount 50.000			Recovery = 54.90%			
4) Phenol-d5	6.000	99	1416136	17.89	ppm	-0.09
Spiked Amount 50.000			Recovery = 35.78%			
7) Nitrobenzene-d5	7.606	82	2857453	38.83	ppm	-0.11
Spiked Amount 50.000			Recovery = 77.66%			
15) 2-Fluorobiphenyl	11.160	172	6152970	42.85	ppm	-0.14
Spiked Amount 50.000			Recovery = 85.70%			
20) 2,4,6-Tribromophenol	14.033	330	823535	50.35	ppm	-0.14
Spiked Amount 50.000			Recovery = 100.70%			
28) Terphenyl-d14	18.519	244	6207908	54.78	ppm	-0.14
Spiked Amount 50.000			Recovery = 109.56%			

Target Compounds Qvalue

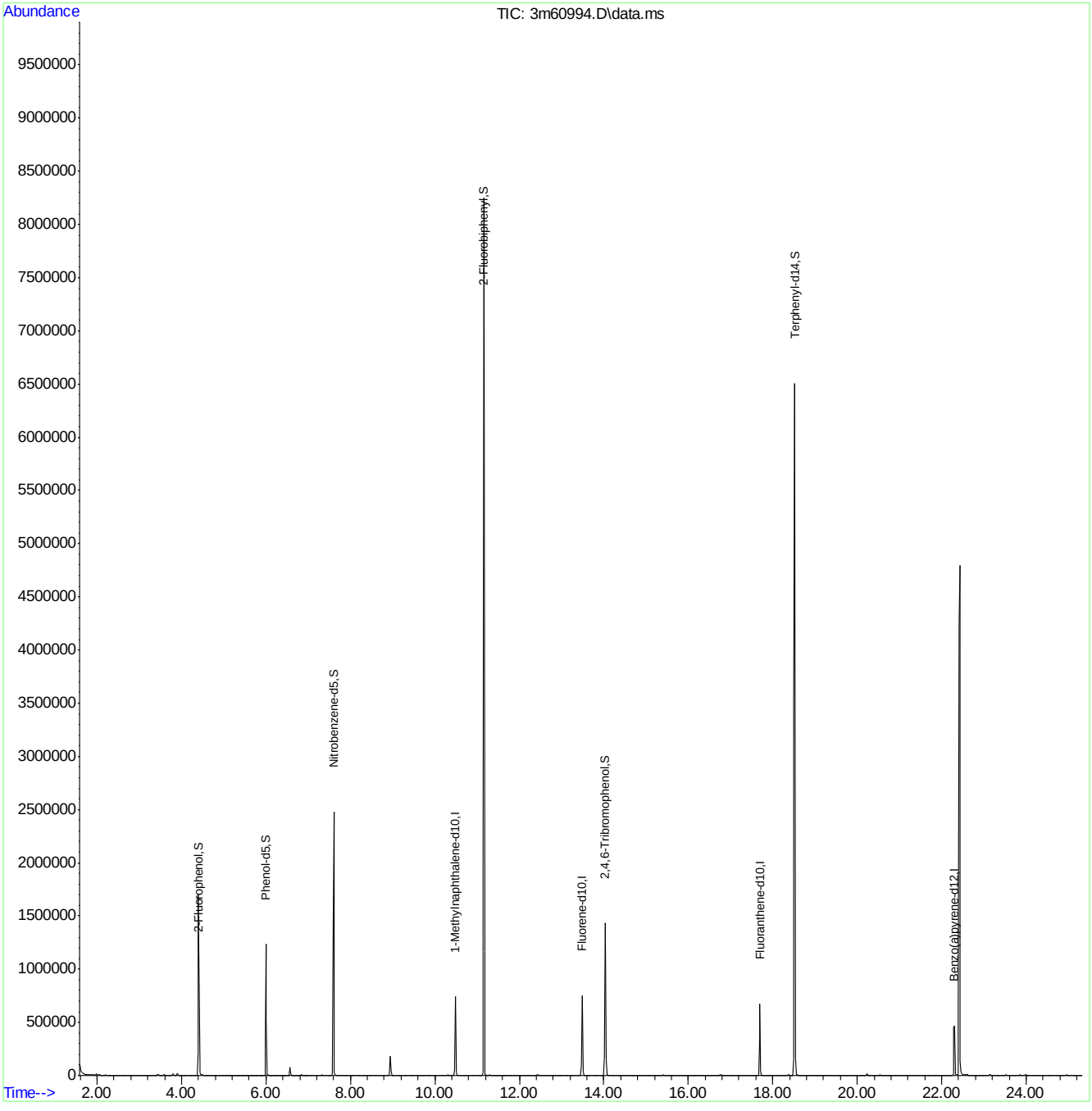
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m60994.D
Acq On : 2 May 2016 1:29 pm
Operator : linseyk
Sample : op93534a-mb1
Misc : op93534a,e3m2868,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 15:12:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61092.D
Acq On : 5 May 2016 12:56 pm
Operator : linseyk
Sample : op93597a-mb1
Misc : op93597a,e3m2872,30.0
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 05 17:13:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 09:51:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.447	150	287175	4.00	ppm	-0.17
14) Fluorene-d10	13.449	176	462651	4.00	ppm	-0.20
21) Fluoranthene-d10	17.670	212	723908	4.00	ppm	-0.19
31) Benzo(a)pyrene-d12	22.274	264	570713	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.399	112	1939620	53.99	ppm	-0.11
Spiked Amount 50.000			Recovery = 107.98%			
4) Phenol-d5	6.000	99	3083914	51.88	ppm	-0.09
Spiked Amount 50.000			Recovery = 103.76%			
7) Nitrobenzene-d5	7.568	82	2577157	46.62	ppm	-0.14
Spiked Amount 50.000			Recovery = 93.24%			
15) 2-Fluorobiphenyl	11.129	172	5926404	46.62	ppm	-0.17
Spiked Amount 50.000			Recovery = 93.24%			
20) 2,4,6-Tribromophenol	14.014	330	667537	46.10	ppm	-0.16
Spiked Amount 50.000			Recovery = 92.20%			
28) Terphenyl-d14	18.488	244	6012924	57.26	ppm	-0.18
Spiked Amount 50.000			Recovery = 114.52%			
Target Compounds						Qvalue
8) Nitrobenzene	7.568	77	9769	0.16	ppm	# 24
23) Pentachlorophenol	15.042	266	124	0.18	ppm	86

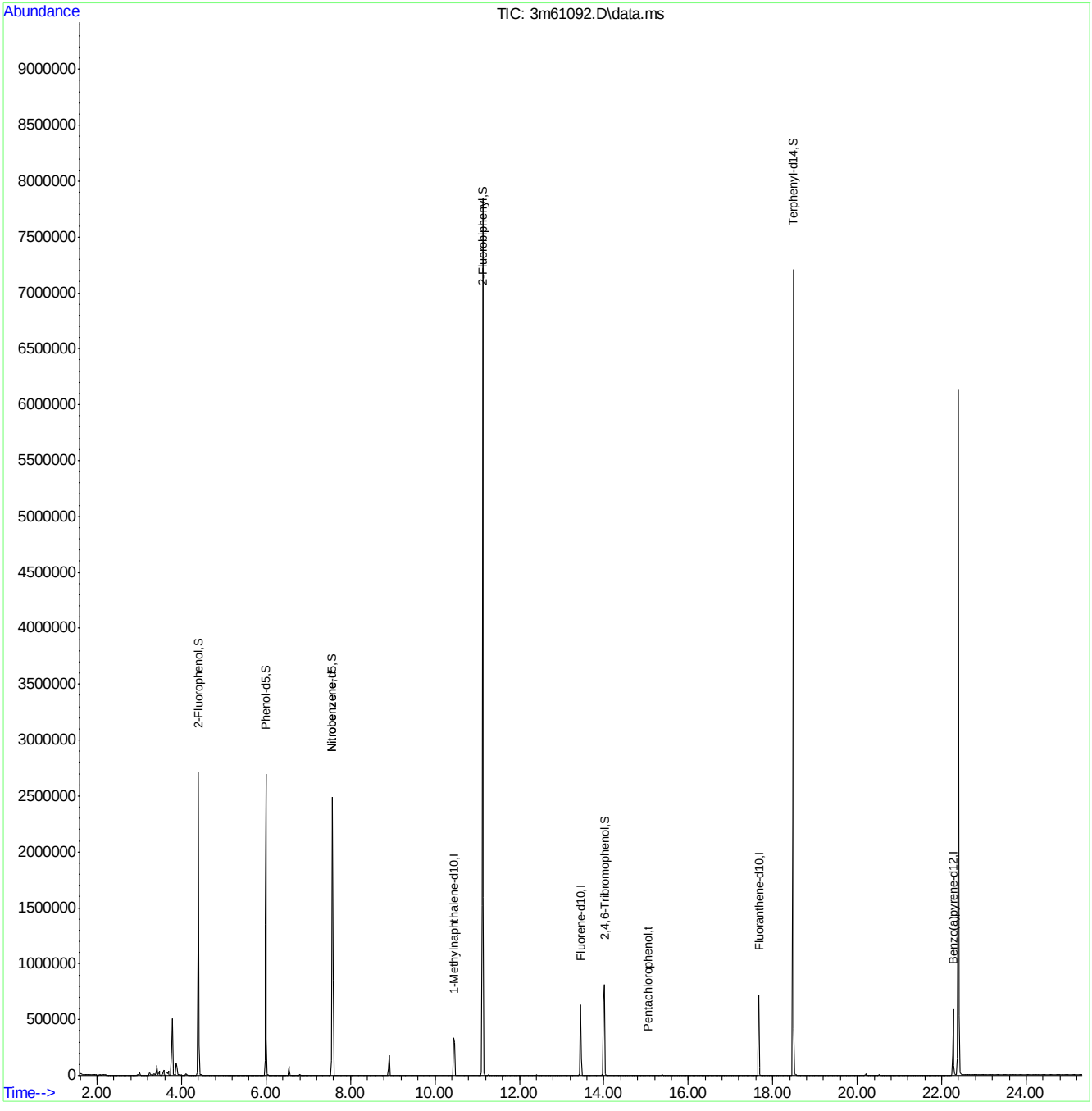
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61092.D
Acq On : 5 May 2016 12:56 pm
Operator : linseyk
Sample : op93597a-mb1
Misc : op93597a,e3m2872,30.0
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 05 17:13:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 09:51:04 2016
Response via : Initial Calibration



M3M2855SIM.M Thu May 05 17:14:19 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61122.D
Acq On : 6 May 2016 10:06 am
Operator : linseyk
Sample : op93597a-mb1
Misc : op93597a,e3m2874,30.0
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 06 14:15:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:37:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.426	150	349329	4.00	ppm	-0.19
14) Fluorene-d10	13.430	176	491187	4.00	ppm	-0.21
21) Fluoranthene-d10	17.639	212	726780	4.00	ppm	-0.22
31) Benzo(a)pyrene-d12	22.243	264	578588	4.00	ppm	-0.05
System Monitoring Compounds						
3) 2-Fluorophenol	4.384	112	1934095	44.25	ppm	-0.12
Spiked Amount 50.000			Recovery = 88.50%			
4) Phenol-d5	5.988	99	3208420	44.37	ppm	-0.10
Spiked Amount 50.000			Recovery = 88.74%			
7) Nitrobenzene-d5	7.549	82	3098752	46.08	ppm	-0.16
Spiked Amount 50.000			Recovery = 92.16%			
15) 2-Fluorobiphenyl	11.114	172	6335120	46.94	ppm	-0.19
Spiked Amount 50.000			Recovery = 93.88%			
20) 2,4,6-Tribromophenol	13.976	330	713484	46.41	ppm	-0.20
Spiked Amount 50.000			Recovery = 92.82%			
28) Terphenyl-d14	18.458	244	6101638	57.88	ppm	-0.21
Spiked Amount 50.000			Recovery = 115.76%			

Target Compounds Qvalue

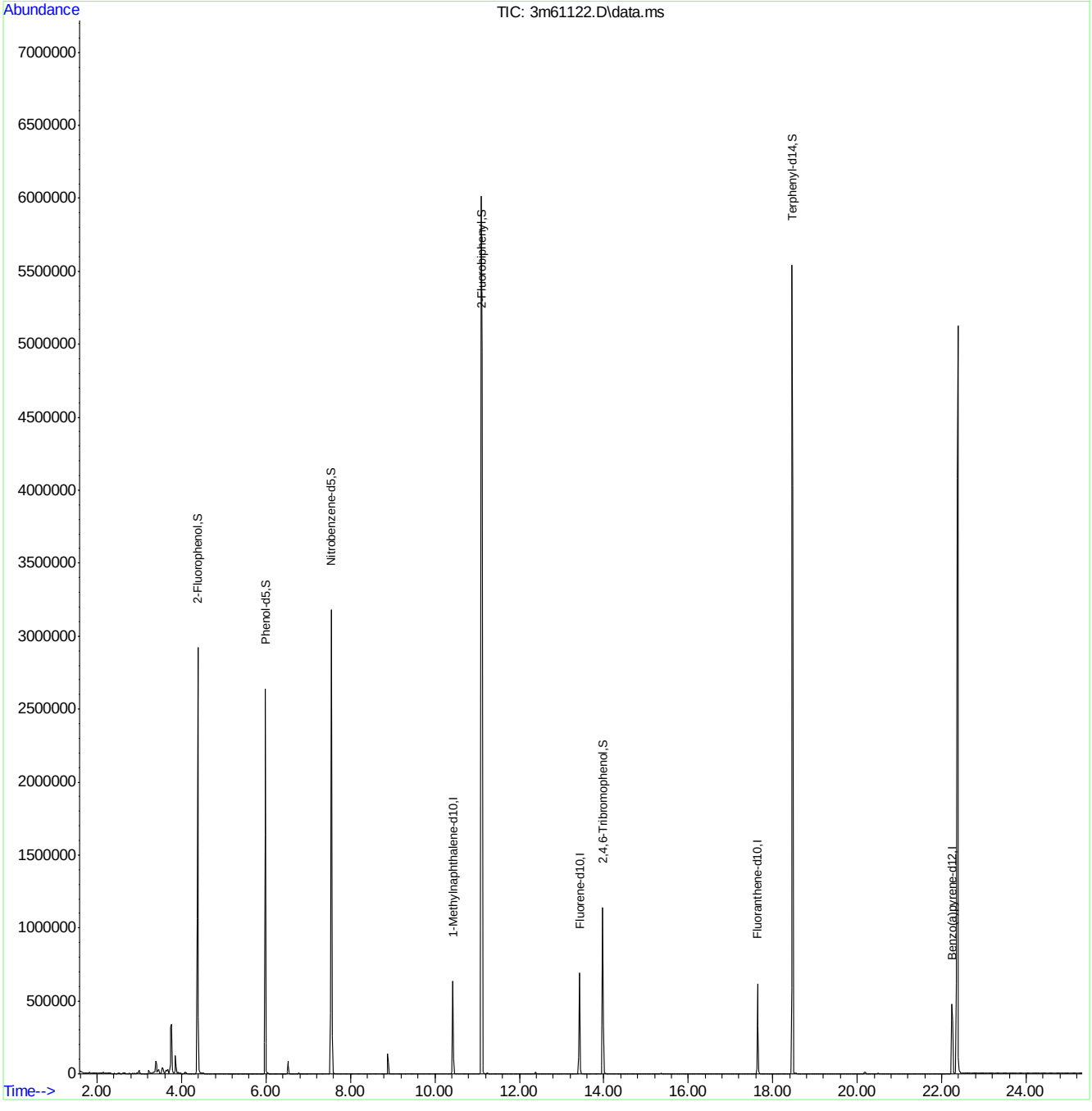
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61122.D
Acq On : 6 May 2016 10:06 am
Operator : linseyk
Sample : op93597a-mb1
Misc : op93597a,e3m2874,30.0
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 06 14:15:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:37:59 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27880.D
Acq On : 2 May 2016 12:43 pm
Operator : ashleyn
Sample : op93534-bs1
Misc : op93534,e5p1414,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 02 14:23:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.100	152	662411	40.00	ppm	0.00
24) Naphthalene-d8	6.564	136	2705328	40.00	ppm	0.00
47) Acenaphthene-d10	8.669	164	1525120	40.00	ppm	0.00
69) Phenanthrene-d10	10.491	188	2525812	40.00	ppm	0.00
83) Chrysene-d12	14.257	240	2437341	40.00	ppm	0.00
92) Perylene-d12	16.314	264	2396289	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.100	152	662411	40.00	ppm	0.00
104) Acenaphthene-d10a	8.669	164	1525120	40.00	ppm	0.00
106) Chrysene-d12a	14.257	240	2437211	40.00	ppm	0.00
109) Phenanthrene-d10a	10.491	188	2525812	40.00	ppm	0.00
112) Naphthalene-d8a	6.564	136	2705328	40.00	ppm	0.00
114) Chrysene-d12b	14.257	240	2437211	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.770	112	679082	33.45	ppm	-0.02
Spiked Amount 50.000			Recovery	=	66.90%	
8) Phenol-d5	4.780	99	564223	24.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	48.92%	
25) Nitrobenzene-d5	5.747	82	1008480	49.11	ppm	0.06
Spiked Amount 50.000			Recovery	=	98.22%	
51) 2-Fluorobiphenyl	7.873	172	2215179	45.62	ppm	-0.01
Spiked Amount 50.000			Recovery	=	91.24%	
73) 2,4,6-Tribromophenol	9.641	330	329179	53.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	107.96%	
85) Terphenyl-d14	12.708	244	2588966	52.85	ppm	-0.02
Spiked Amount 50.000			Recovery	=	105.70%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.173	88	210401	27.09	ppm	89
3) Pyridine	2.493	79	291893	17.07	ppm	98
4) N-Nitrosodimethylamine	2.451	74	285842	29.82	ppm	93
6) Indene	5.384	116	1817514	50.15	ppm	98
7) Cumene	4.230	105	2032238	41.58	ppm	95
9) Phenol	4.791	94	637267	26.72	ppm	90
10) Aniline	4.764	93	557393	21.57	ppm	79
11) bis(2-Chloroethyl)ether	4.828	93	818571	46.26	ppm	91
12) 2-Chlorophenol	4.892	128	1044164	45.48	ppm	94
13) Decane	4.908	43	867500	57.09	ppm	77
14) 1,3-Dichlorobenzene	5.031	146	898139	35.26	ppm	95
15) 1,4-Dichlorobenzene	5.116	146	948640	36.93	ppm	98
16) Benzyl alcohol	5.293	108	484127	36.83	ppm	95
17) 1,2-Dichlorobenzene	5.287	146	899221	36.83	ppm	96
18) Acetophenone	5.571	105	1435998	50.45	ppm	99
19) 2-Methylphenol	5.448	108	832344	47.62	ppm	96
20) 2,2'-oxybis(1-Chloropr...	5.421	45	1006436	49.50	ppm	70

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27880.D
Acq On : 2 May 2016 12:43 pm
Operator : ashleyn
Sample : op93534-bs1
Misc : op93534,e5p1414,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 02 14:23:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.629	108	816820	43.93	ppm		89
22) n-Nitroso-di-n-propyla...	5.576	70	625719	49.38	ppm		98
23) Hexachloroethane	5.661	201	271851	32.84	ppm		85
26) Nitrobenzene	5.768	77	917353	45.32	ppm		98
27) Quinoline	7.002	129	2100645	44.28	ppm		97
28) Isophorone	6.035	82	1769953	50.04	ppm		91
29) 2-Nitrophenol	6.131	139	609201	48.00	ppm		91
30) 2,4-Dimethylphenol	6.228	107	1104695	55.47	ppm		95
31) Benzoic acid	6.388	105	336643	20.69	ppm		90
32) bis(2-Chloroethoxy)met...	6.313	93	988061	42.75	ppm		98
33) 2,4-Dichlorophenol	6.436	162	868443	45.06	ppm		97
34) 2,6-Dichlorophenol	6.692	162	858941	45.32	ppm	#	1
36) 1,2,4-Trichlorobenzene	6.500	180	712052	32.84	ppm		89
38) Naphthalene	6.591	128	2796633	40.80	ppm		96
39) 4-Chloroaniline	6.692	127	701542	24.44	ppm		95
40) 2,3-Dichloroaniline	7.782	161	1004934	41.84	ppm		98
41) Caprolactam	7.114	55	138686	18.00	ppm		90
42) Hexachlorobutadiene	6.735	225	339058	30.38	ppm		99
43) 4-Chloro-3-methylphenol	7.317	107	991958	48.17	ppm		94
44) 2-Methylnaphthalene	7.419	141	1754287	44.38	ppm		95
45) 1-Methylnaphthalene	7.536	141	1835632	44.71	ppm		95
46) Dimethylnaphthalene	8.172	156	1770002	41.11	ppm		91
48) Hexachlorocyclopentadiene	7.601	237	508076	53.16	ppm		95
49) 2,4,6-Trichlorophenol	7.788	196	612764	47.18	ppm		96
50) 2,4,5-Trichlorophenol	7.846	196	617763	44.06	ppm		97
52) 2-Chloronaphthalene	8.007	162	1648138	38.35	ppm		89
53) Biphenyl	7.991	154	2453622	44.08	ppm		93
54) 2-Nitroaniline	8.172	65	632736	58.56	ppm		89
55) Dimethylphthalate	8.391	163	2329606	45.73	ppm		99
56) Acenaphthylene	8.503	152	2916481	42.71	ppm		96
57) 2,6-Dinitrotoluene	8.461	165	538541	51.35	ppm		91
58) 3-Nitroaniline	8.674	138	377517	30.95	ppm		81
59) Acenaphthene	8.712	153	1896806	43.44	ppm		97
60) 2,4-Dinitrophenol	8.797	184	632784	95.88	ppm	#	76
61) 4-Nitrophenol	8.968	109	195303	31.55	ppm	#	69
62) Dibenzofuran	8.925	168	2745198	46.18	ppm		96
63) 2,4-Dinitrotoluene	8.947	165	729169	52.04	ppm		97
64) 2,3,4,6-Tetrachlorophenol	9.096	232	474587	42.92	ppm		90
65) Diethylphthalate	9.241	149	2436752	46.83	ppm		96
66) Fluorene	9.337	166	2213473	45.19	ppm		99
67) 4-Chlorophenyl-phenyle...	9.353	204	886351	38.41	ppm		79
68) 4-Nitroaniline	9.428	138	594953	48.27	ppm		76
70) 4,6-Dinitro-2-methylph...	9.433	198	428705	53.09	ppm		81
71) n-Nitrosodiphenylamine	9.508	169	1649662	45.31	ppm		98
72) 1,2-Diphenylhydrazine	9.545	77	1939040	51.35	ppm		85
74) 4-Bromophenyl-phenylether	9.940	248	570374	40.76	ppm		98
75) Hexachlorobenzene	9.994	284	624591	43.97	ppm		96
76) Pentachlorophenol	10.277	266	366877	42.34	ppm		98
77) Phenanthrene	10.523	178	3200031	45.11	ppm		97
78) Anthracene	10.587	178	3208471	45.00	ppm		98

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27880.D
Acq On : 2 May 2016 12:43 pm
Operator : ashleyn
Sample : op93534-bs1
Misc : op93534,e5p1414,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 02 14:23:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	10.833	167	3202609	47.71	ppm	93
80)	Di-n-butylphthalate	11.308	149	4245690	49.91	ppm	100
81)	Fluoranthene	12.125	202	3394772	46.30	ppm	97
82)	Octadecane	10.379	57	1644977	70.32	ppm	74
84)	Pyrene	12.446	202	3591931	47.87	ppm	97
86)	Butylbenzylphthalate	13.477	149	1875934	50.96	ppm	85
88)	Benzo[a]anthracene	14.241	228	3155482	46.81	ppm	99
89)	3,3'-Dichlorobenzidine	14.257	252	1369876	55.48	ppm	95
90)	Chrysene	14.294	228	3189250	46.34	ppm	98
91)	bis(2-Ethylhexyl)phtha...	14.369	149	2762161	52.93	ppm	99
93)	Di-n-octylphthalate	15.331	149	4641528	55.84	ppm	96
94)	Benzo[b]fluoranthene	15.801	252	3396345	48.58	ppm	98
95)	Benzo[k]fluoranthene	15.844	252	3214901	48.12	ppm	98
96)	Benzo[a]pyrene	16.239	252	2842575	45.36	ppm	99
97)	Indeno[1,2,3-cd]pyrene	17.836	276	3059435	49.77	ppm	92
99)	Dibenz[a,h]anthracene	17.874	278	3132887	48.76	ppm	99
100)	7,12-Dimethylbenz(a)an...	15.801	256	1346990	50.06	ppm	99
101)	Benzo[g,h,i]perylene	18.280	276	3040781	46.55	ppm	97
103)	Benzaldehyde	4.636	105	804253	50.00	ppm	91
105)	1,2,4,5-Tetrachloroben...	7.617	216	720496	34.19	ppm	100
107)	Benzidine	12.382	184	1039979	32.11	ppm	100
111)	Atrazine	10.186	215	323229	49.69	ppm	100

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

7.3.1

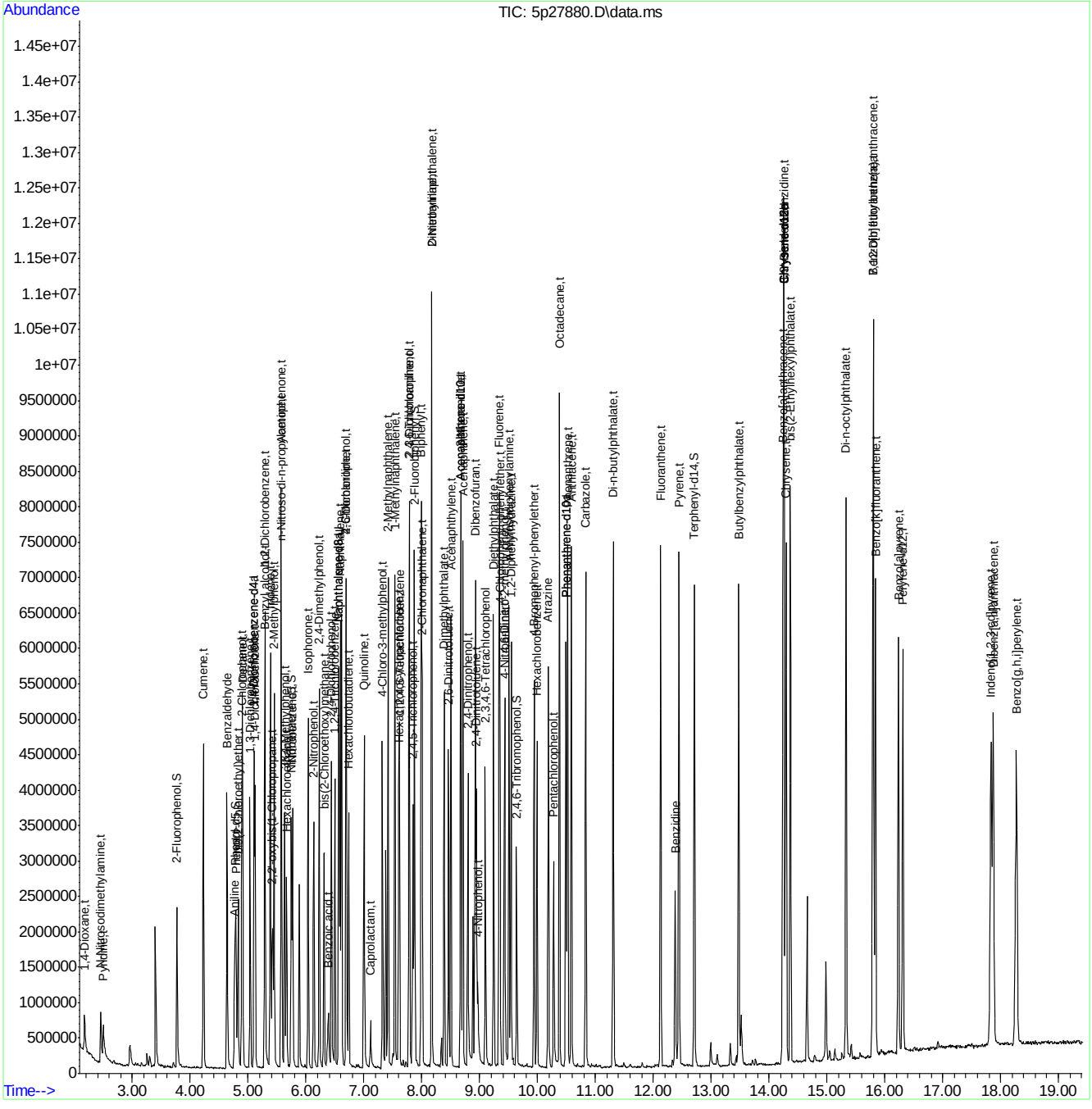
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27880.D
Acq On : 2 May 2016 12:43 pm
Operator : ashleyn
Sample : op93534-bs1
Misc : op93534,e5p1414,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 02 14:23:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83092.D
Acq On : 11 May 2016 11:07 am
Operator : ashleyn
Sample : op93597-bs1
Misc : op93597,e3e3643,30.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 12:39:36 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.420	152	178864	40.00	ppm	0.00
24) Naphthalene-d8	5.468	136	634519	40.00	ppm	0.00
47) Acenaphthene-d10	7.463	164	396315	40.00	ppm	0.00
69) Phenanthrene-d10	9.619	188	682472	40.00	ppm	0.00
83) Chrysene-d12	13.786	240	736871	40.00	ppm	0.00
92) Perylene-d12	15.898	264	547907	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.420	152	178864	40.00	ppm	0.00
104) Acenaphthene-d10a	7.463	164	396315	40.00	ppm	0.00
106) Phenanthrene-d10a	9.619	188	682472	40.00	ppm	0.00
108) Chrysene-d12a	13.786	240	736871	40.00	ppm	0.00
110) Naphthalene-d8a	5.468	136	634519	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.473	112	216072	39.40	ppm	0.02
Spiked Amount 50.000			Recovery	=	78.80%	
8) Phenol-d5	4.217	99	261771	36.69	ppm	0.04
Spiked Amount 50.000			Recovery	=	73.38%	
25) Nitrobenzene-d5	4.853	82	275584	43.43	ppm	0.00
Spiked Amount 50.000			Recovery	=	86.86%	
51) 2-Fluorobiphenyl	6.624	172	608464	46.29	ppm	0.00
Spiked Amount 50.000			Recovery	=	92.58%	
73) 2,4,6-Tribromophenol	8.592	330	117882	48.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	97.96%	
85) Terphenyl-d14	12.170	244	734248	47.47	ppm	-0.01
Spiked Amount 50.000			Recovery	=	94.94%	

Target Compounds						Qvalue
2) 1,4-Dioxane	1.890	88	43714	26.80	ppm	97
3) Pyridine	2.232	79	127109	27.42	ppm	100
4) N-Nitrosodimethylamine	2.200	74	89843	34.06	ppm	86
6) Indene	4.613	116	390839	36.63	ppm	96
7) Cumene	3.810	105	518745	33.24	ppm	96
9) Phenol	4.228	94	259033	33.12	ppm	96
10) Aniline	4.185	93	233142	25.67	ppm	68
11) bis(2-Chloroethyl)ether	4.233	93	200813	37.44	ppm	98
12) 2-Chlorophenol	4.286	128	243033	37.50	ppm	98
13) Decane	4.297	43	206455	30.09	ppm	94
14) 1,3-Dichlorobenzene	4.377	146	269904	38.09	ppm	98
15) 1,4-Dichlorobenzene	4.436	146	281372	37.83	ppm	100
16) Benzyl alcohol	4.543	108	141917	35.92	ppm	98
17) 1,2-Dichlorobenzene	4.543	146	263135	39.28	ppm	98
18) Acetophenone	4.736	105	303008	34.15	ppm	97
19) 2-Methylphenol	4.655	108	195779	35.72	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.634	121	76721	34.91	ppm	95
21) 3&4-Methylphenol	4.778	108	199936	34.71	ppm	96
22) n-Nitroso-di-n-propyla...	4.741	70	153213	32.62	ppm	90
23) Hexachloroethane	4.800	201	112718	47.39	ppm	93
26) Nitrobenzene	4.869	77	262858	40.11	ppm	95
27) Quinoline	5.821	129	435694	39.48	ppm	96
28) Isophorone	5.067	82	422680	39.74	ppm	91

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83092.D
Acq On : 11 May 2016 11:07 am
Operator : ashleyn
Sample : op93597-bs1
Misc : op93597,e3e3643,30.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 12:39:36 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 2-Nitrophenol	5.131	139	134940	40.23 ppm	87
30) 2,4-Dimethylphenol	5.196	107	240722	41.70 ppm	98
31) Benzoic acid	5.335	105	166331	39.11 ppm	98
32) bis(2-Chloroethoxy)met...	5.254	93	218813	37.79 ppm	99
33) 2,4-Dichlorophenol	5.377	162	218316	48.50 ppm	95
34) 2,6-Dichlorophenol	5.565	162	201317	43.78 ppm	98
36) 1,2,4-Trichlorobenzene	5.415	180	247183	48.13 ppm	98
38) Naphthalene	5.484	128	706535	40.27 ppm	98
39) 4-Chloroaniline	5.554	127	190336	26.63 ppm	97
40) 2,3-Dichloroaniline	6.527	161	233582	41.17 ppm	98
41) Caprolactam	5.923	55	87998	36.63 ppm	94
42) Hexachlorobutadiene	5.597	225	166612	54.13 ppm	99
43) 4-Chloro-3-methylphenol	6.100	107	208229	40.55 ppm	94
44) 2-Methylnaphthalene	6.190	141	407369	40.91 ppm	95
45) 1-Methylnaphthalene	6.303	141	442377	42.59 ppm	93
46) Dimethylnaphthalene	6.934	156	445837	44.35 ppm	97
48) Hexachlorocyclopentadiene	6.362	237	234525	72.82 ppm	99
49) 2,4,6-Trichlorophenol	6.543	196	165321	46.01 ppm	97
50) 2,4,5-Trichlorophenol	6.624	196	169745	42.41 ppm	94
52) 2-Chloronaphthalene	6.757	162	463933	41.30 ppm	97
53) Biphenyl	6.741	154	602842	40.24 ppm	99
54) 2-Nitroaniline	6.918	65	159623	38.34 ppm	94
55) Dimethylphthalate	7.153	163	555858	42.24 ppm	100
56) Acenaphthylene	7.276	152	699593	37.31 ppm	99
57) 2,6-Dinitrotoluene	7.233	165	125715	42.67 ppm	94
58) 3-Nitroaniline	7.458	138	95228	29.02 ppm	96
59) Acenaphthene	7.512	153	499291	40.10 ppm	97
60) 2,4-Dinitrophenol	7.624	184	126713	82.64 ppm	89
61) 4-Nitrophenol	7.854	109	92283	43.55 ppm	93
62) Dibenzofuran	7.747	168	654270	39.92 ppm	87
63) 2,4-Dinitrotoluene	7.790	165	169852	42.15 ppm	79
64) 2,3,4,6-Tetrachlorophenol	7.961	232	127587	43.01 ppm	93
65) Diethylphthalate	8.132	149	572492	41.42 ppm	97
66) Fluorene	8.234	166	567262	41.34 ppm	99
67) 4-Chlorophenyl-phenyle...	8.255	204	286915	45.86 ppm	97
68) 4-Nitroaniline	8.325	138	118244	37.49 ppm	97
70) 4,6-Dinitro-2-methylph...	8.378	198	105095	42.46 ppm	93
71) n-Nitrosodiphenylamine	8.442	169	388460	40.98 ppm	98
72) 1,2-Diphenylhydrazine	8.485	77	557870	39.51 ppm	98
74) 4-Bromophenyl-phenylether	8.972	248	192382	47.42 ppm	97
75) Hexachlorobenzene	9.031	284	214881	44.16 ppm	98
76) Pentachlorophenol	9.378	266	77356	33.40 ppm	99
77) Phenanthrene	9.651	178	779592	39.37 ppm	98
78) Anthracene	9.731	178	759286	38.28 ppm	99
79) Carbazole	10.025	167	704960	39.28 ppm	99
80) Di-n-butylphthalate	10.646	149	933572	40.27 ppm	98
81) Fluoranthene	11.502	202	920550	42.87 ppm	96
82) Octadecane	9.576	57	289972	35.97 ppm	90
84) Pyrene	11.849	202	950394	43.09 ppm	99
86) Butylbenzylphthalate	13.015	149	396982	37.74 ppm	98

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83092.D
Acq On : 11 May 2016 11:07 am
Operator : ashleyn
Sample : op93597-bs1
Misc : op93597,e3e3643,30.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 12:39:36 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
88) Benzo[a]anthracene	13.769	228	874351	40.60 ppm		99
89) 3,3'-Dichlorobenzidine	13.796	252	546174	68.19 ppm		98
90) Chrysene	13.828	228	798602	39.74 ppm		100
91) bis(2-Ethylhexyl)phtha...	13.978	149	506824	37.44 ppm		99
93) Di-n-octylphthalate	14.968	149	811129	37.39 ppm		99
94) Benzo[b]fluoranthene	15.385	252	790488	42.68 ppm		100
95) Benzo[k]fluoranthene	15.422	252	717021	43.38 ppm		100
96) Benzo[a]pyrene	15.818	252	632255	40.89 ppm		100
97) Indeno[1,2,3-cd]pyrene	17.316	276	591121	40.13 ppm		95
99) Dibenz[a,h]anthracene	17.348	278	574331	39.24 ppm		100
100) 7,12-Dimethylbenz(a)an...	15.374	256	382888	46.37 ppm		100
101) Benzo[g,h,i]perylene	17.706	276	538532	37.94 ppm		100
103) Benzaldehyde	4.099	105	139846	28.84 ppm	#	80
105) 1,2,4,5-Tetrachloroben...	6.383	216	286866	58.46 ppm		98
107) Atrazine	9.298	215	93182	53.65 ppm	#	86
109) benzidine	11.790	184	412859	45.52 ppm		96

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

7.3.2

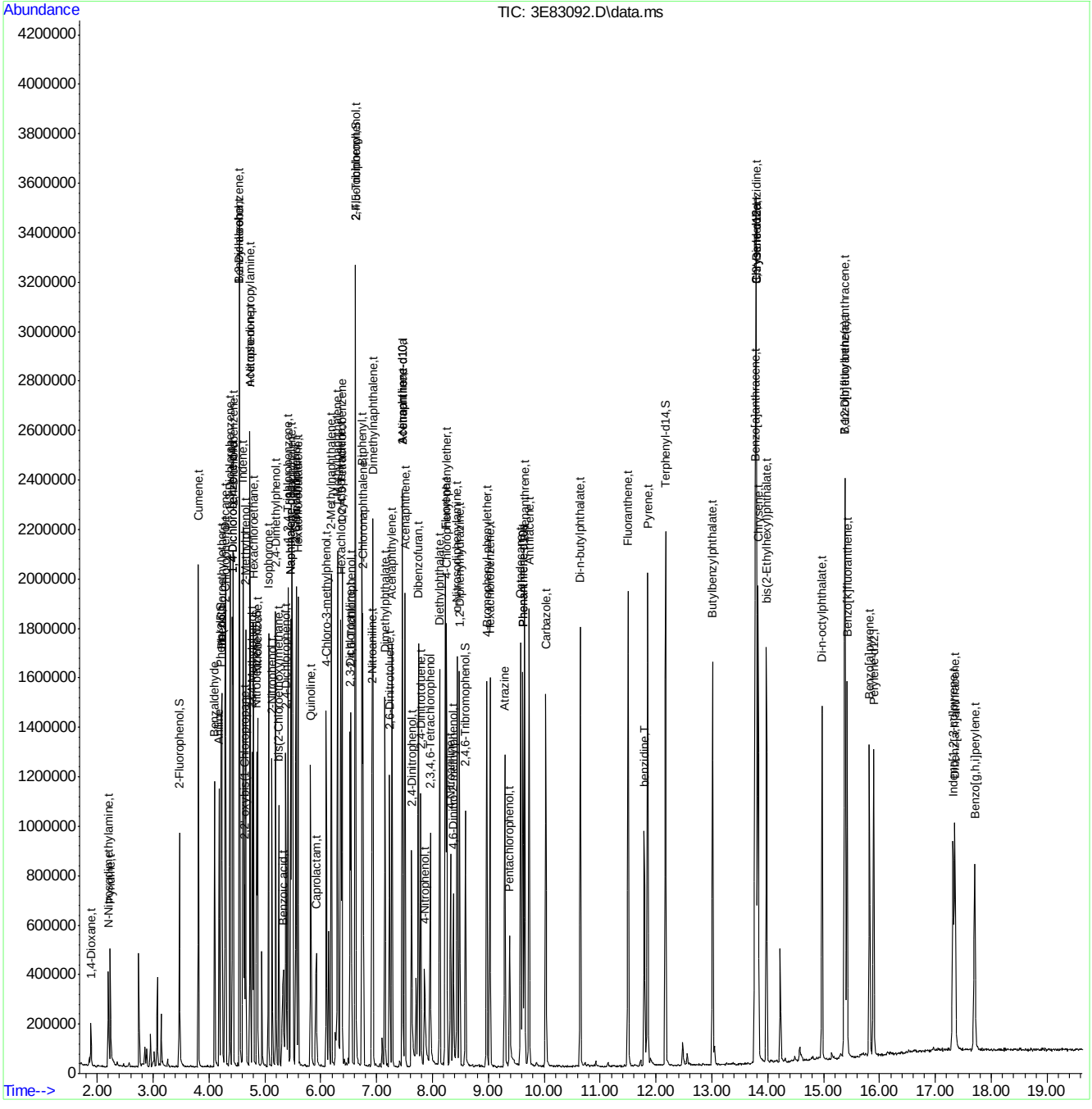
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83092.D
Acq On : 11 May 2016 11:07 am
Operator : ashleyn
Sample : op93597-bs1
Misc : op93597,e3e3643,30.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 12:39:36 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m60995.D
Acq On : 2 May 2016 2:02 pm
Operator : linseyk
Sample : op93534a-bs12
Misc : op93534a,e3m2868,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 02 15:13:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	355767	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	464494	4.00	ppm	-0.16
21) Fluoranthene-d10	17.701	212	720783	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.289	264	562868	4.00	ppm	-0.16
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	1359300	30.54	ppm	-0.09
Spiked Amount 50.000			Recovery = 61.08%			
4) Phenol-d5	6.000	99	1429857	19.41	ppm	-0.09
Spiked Amount 50.000			Recovery = 38.82%			
7) Nitrobenzene-d5	7.606	82	2794177	40.80	ppm	-0.11
Spiked Amount 50.000			Recovery = 81.60%			
15) 2-Fluorobiphenyl	11.160	172	5708857	44.73	ppm	-0.14
Spiked Amount 50.000			Recovery = 89.46%			
20) 2,4,6-Tribromophenol	14.033	330	758638	52.19	ppm	-0.14
Spiked Amount 50.000			Recovery = 104.38%			
28) Terphenyl-d14	18.519	244	5971434	57.11	ppm	-0.14
Spiked Amount 50.000			Recovery = 114.22%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	10017	0.54	ppm	77
5) Phenol	6.024	94	198697	2.50	ppm	93
6) bis(2-Chloroethyl)ether	6.157	93	50651	0.84	ppm	74
8) Nitrobenzene	7.625	77	63718	0.86	ppm #	64
9) Naphthalene	8.999	128	157277	0.80	ppm	99
10) Hexachlorobutadiene	9.282	225	26323	0.76	ppm	93
11) 2-Methylnaphthalene	10.365	141	98361	0.96	ppm #	73
13) Hexachlorocyclopentadiene	10.714	237	13472	0.49	ppm #	77
16) Acenaphthylene	12.134	152	159610	0.99	ppm	89
17) Acenaphthene	12.490	153	107276	1.00	ppm	77
18) 4,6-dinitro-2-methylph...	13.712	198	94549	6.03	ppm	95
19) Fluorene	13.543	166	128636	1.00	ppm	80
22) Hexachlorobenzene	14.624	284	33108	0.97	ppm	84
23) Pentachlorophenol	15.057	266	147294	6.21	ppm	99
24) Phenanthrene	15.444	178	186255	1.05	ppm #	57
25) Anthracene	15.552	178	173504	1.11	ppm	94
26) Fluoranthene	17.731	202	209193	0.94	ppm	98
27) Pyrene	18.118	202	218853	1.06	ppm	99
29) Benzo[a]anthracene	20.204	228	181049	0.92	ppm	98
30) Chrysene	20.265	228	180410	0.95	ppm	100
32) Benzo[b]fluoranthene	21.872	252	163832	0.87	ppm	97
33) Benzo[k]fluoranthene	21.919	252	164573	0.95	ppm	98
34) Benzo[a]pyrene	22.320	252	155456	0.89	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.806	276	159826	0.90	ppm	91
36) Dibenz[a,h]anthracene	23.843	278	135265	0.93	ppm	100
37) Benzo[g,h,i]perylene	24.163	276	142107	0.92	ppm	98

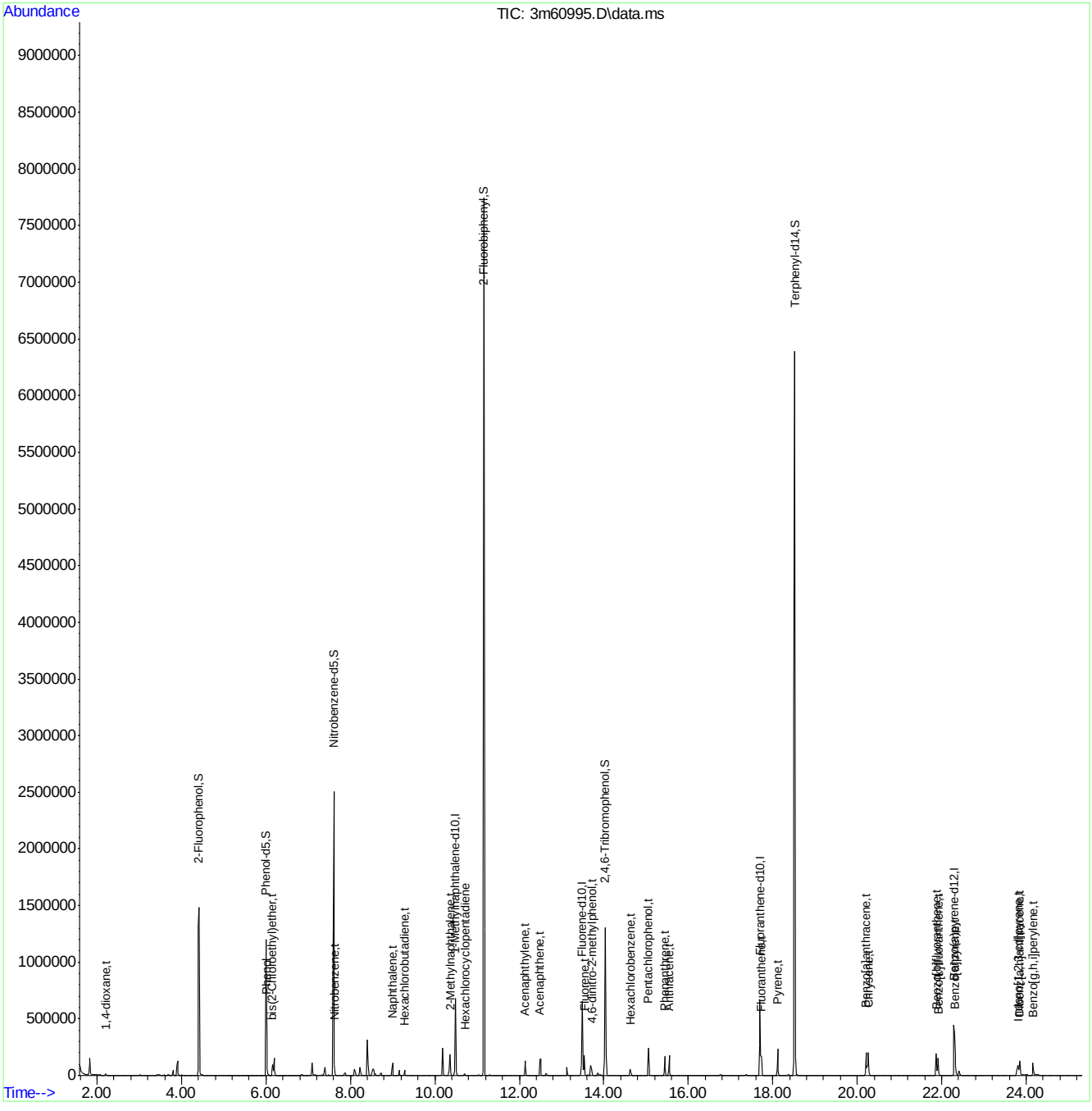
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m60995.D
Acq On : 2 May 2016 2:02 pm
Operator : linseyk
Sample : op93534a-bs12
Misc : op93534a,e3m2868,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 02 15:13:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61123.D
Acq On : 6 May 2016 10:38 am
Operator : linseyk
Sample : op93597a-bs12
Misc : op93597a,e3m2874,30.0
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 06 14:15:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 14:14:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.427	150	348036	4.00	ppm	0.00
14) Fluorene-d10	13.430	176	480861	4.00	ppm	0.00
21) Fluoranthene-d10	17.639	212	715171	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.243	264	603243	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.384	112	2002692	45.99	ppm	-0.04
Spiked Amount 50.000			Recovery = 91.98%			
4) Phenol-d5	5.988	99	3165940	43.94	ppm	0.00
Spiked Amount 50.000			Recovery = 87.88%			
7) Nitrobenzene-d5	7.550	82	3040590	45.39	ppm	-0.02
Spiked Amount 50.000			Recovery = 90.78%			
15) 2-Fluorobiphenyl	11.114	172	6355896	48.10	ppm	-0.01
Spiked Amount 50.000			Recovery = 96.20%			
20) 2,4,6-Tribromophenol	13.976	330	711744	47.29	ppm	0.03
Spiked Amount 50.000			Recovery = 94.58%			
28) Terphenyl-d14	18.458	244	5982567	57.67	ppm	0.02
Spiked Amount 50.000			Recovery = 115.34%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.174	88	10769	0.60	ppm #	48
5) Phenol	6.000	94	297960	3.84	ppm #	84
6) bis(2-Chloroethyl)ether	6.109	93	47097	0.80	ppm	80
8) Nitrobenzene	7.587	77	60402	0.83	ppm	66
9) Naphthalene	8.943	128	152337	0.79	ppm	99
10) Hexachlorobutadiene	9.226	225	31770	0.94	ppm	88
11) 2-Methylnaphthalene	10.304	141	91291	0.91	ppm #	59
13) Hexachlorocyclopentadiene	10.652	237	15717	0.59	ppm	81
16) Acenaphthylene	12.088	152	152723	0.92	ppm	99
17) Acenaphthene	12.443	153	106420	0.96	ppm	96
18) 4,6-dinitro-2-methylph...	13.656	198	65259	4.30	ppm	56
19) Fluorene	13.486	166	126431	0.95	ppm	77
22) Hexachlorobenzene	14.563	284	35866	1.06	ppm	79
23) Pentachlorophenol	15.011	266	83234	3.61	ppm	91
24) Phenanthrene	15.382	178	179809	1.03	ppm	89
25) Anthracene	15.490	178	165221	1.07	ppm	92
26) Fluoranthene	17.670	202	214936	0.98	ppm	95
27) Pyrene	18.056	202	204225	1.00	ppm	92
29) Benzo[a]anthracene	20.157	228	171695	0.88	ppm	96
30) Chrysene	20.219	228	184847	0.98	ppm	84
32) Benzo[b]fluoranthene	21.826	252	170224	0.85	ppm	92
33) Benzo[k]fluoranthene	21.857	252	165275	0.89	ppm	90
34) Benzo[a]pyrene	22.274	252	159660	0.85	ppm	97
35) Indeno[1,2,3-cd]pyrene	23.749	276	173871	0.91	ppm	96
36) Dibenz[a,h]anthracene	23.787	278	150910	0.96	ppm	90
37) Benzo[g,h,i]perylene	24.107	276	146361	0.89	ppm	93

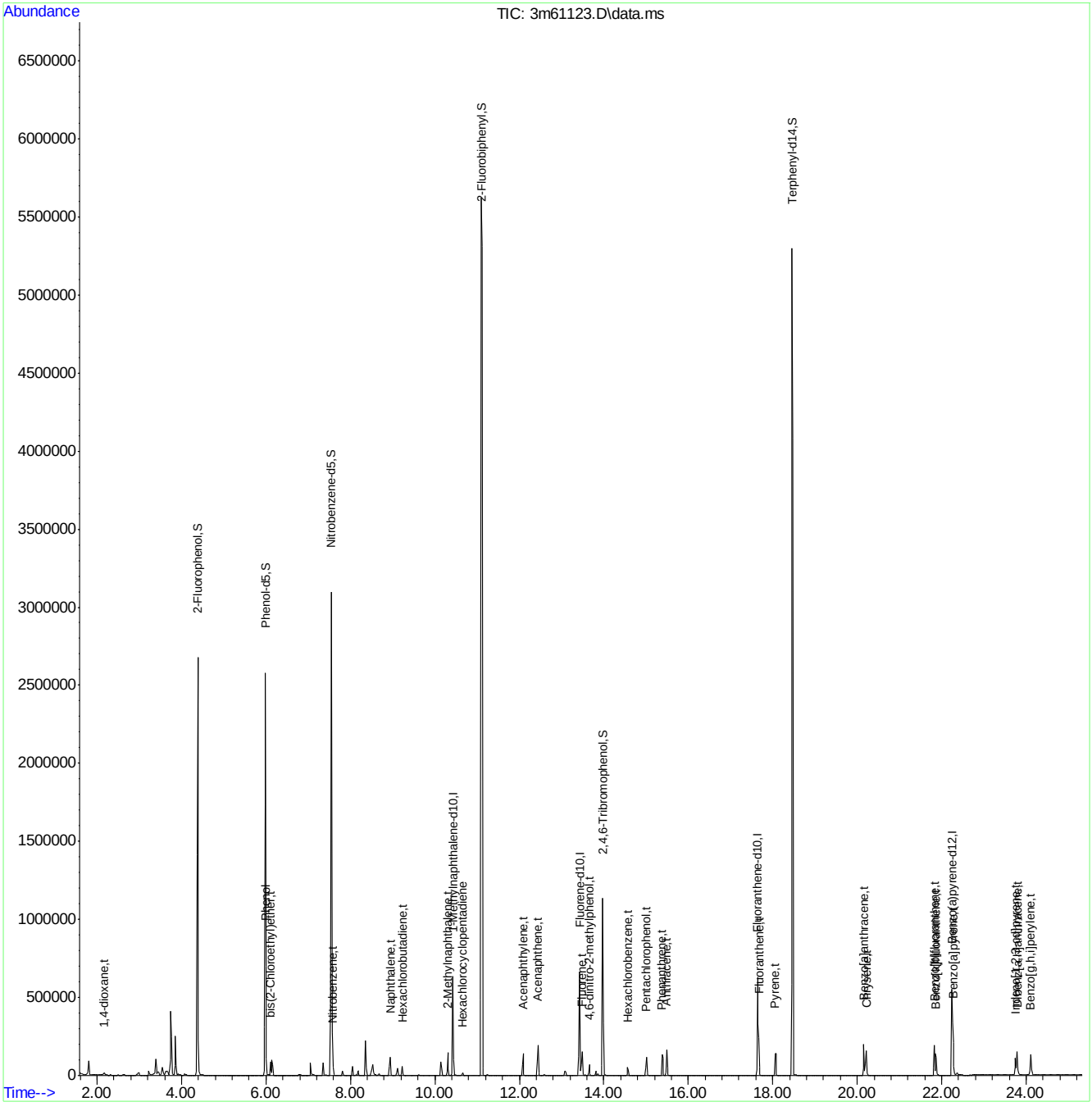
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61123.D
Acq On : 6 May 2016 10:38 am
Operator : linseyk
Sample : op93597a-bs12
Misc : op93597a,e3m2874,30.0
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 06 14:15:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 14:14:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/09/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27895.D
Acq On : 2 May 2016 7:18 pm
Operator : ashleyn
Sample : op93534-ms
Misc : op93534,e5p1414,500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 03 08:29:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.100	152	760355	40.00	ppm	0.00
24) Naphthalene-d8	6.564	136	3062460	40.00	ppm	0.00
47) Acenaphthene-d10	8.674	164	1791313	40.00	ppm	0.00
69) Phenanthrene-d10	10.491	188	2943135	40.00	ppm	0.00
83) Chrysene-d12	14.257	240	2748384	40.00	ppm	0.00
92) Perylene-d12	16.314	264	2623668	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.100	152	760355	40.00	ppm	0.00
104) Acenaphthene-d10a	8.674	164	1791313	40.00	ppm	0.00
106) Chrysene-d12a	14.257	240	2745497	40.00	ppm	0.00
109) Phenanthrene-d10a	10.491	188	2943135	40.00	ppm	0.00
112) Naphthalene-d8a	6.564	136	3062460	40.00	ppm	0.00
114) Chrysene-d12b	14.257	240	2745497	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.770	112	1017245	43.65	ppm	-0.02
Spiked Amount 50.000			Recovery	=	87.30%	
8) Phenol-d5	4.780	99	1027005	38.79	ppm	0.00
Spiked Amount 50.000			Recovery	=	77.58%	
25) Nitrobenzene-d5	5.747	82	1149454	49.45	ppm	0.06
Spiked Amount 50.000			Recovery	=	98.90%	
51) 2-Fluorobiphenyl	7.873	172	2718809	47.67	ppm	-0.01
Spiked Amount 50.000			Recovery	=	95.34%	
73) 2,4,6-Tribromophenol	9.641	330	400526	56.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	112.74%	
85) Terphenyl-d14	12.713	244	2178240	39.43	ppm	-0.01
Spiked Amount 50.000			Recovery	=	78.86%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.167	88	304304	34.13	ppm	98
4) N-Nitrosodimethylamine	2.451	74	429111	39.00	ppm	80
6) Indene	5.383	116	2065798	49.65	ppm	98
7) Cumene	4.224	105	2434739	43.40	ppm	98
9) Phenol	4.790	94	1081111	39.49	ppm	95
10) Aniline	4.764	93	190521	6.42	ppm #	32
11) bis(2-Chloroethyl)ether	4.823	93	909660	44.78	ppm	93
12) 2-Chlorophenol	4.892	128	1239302	47.03	ppm	99
13) Decane	4.903	43	1099035	63.02	ppm	73
14) 1,3-Dichlorobenzene	5.031	146	1137048	38.88	ppm	99
15) 1,4-Dichlorobenzene	5.116	146	1213938	41.16	ppm	98
16) Benzyl alcohol	5.293	108	699380	46.35	ppm	95
17) 1,2-Dichlorobenzene	5.287	146	1139111	40.64	ppm	93
18) Acetophenone	5.570	105	1629969	49.89	ppm	95
19) 2-Methylphenol	5.448	108	1022670	50.97	ppm	94
20) 2,2'-oxybis(1-Chloropr...	5.421	45	1149936	49.27	ppm	71
21) 3&4-Methylphenol	5.629	108	1081776	50.68	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27895.D
Acq On : 2 May 2016 7:18 pm
Operator : ashleyn
Sample : op93534-ms
Misc : op93534,e5p1414,500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 03 08:29:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.576	70	710155	48.82	ppm		94
23) Hexachloroethane	5.661	201	344452	36.25	ppm		89
26) Nitrobenzene	5.768	77	1042253	45.48	ppm		95
27) Quinoline	7.002	129	1706428	31.77	ppm		97
28) Isophorone	6.041	82	2018714	50.42	ppm		95
29) 2-Nitrophenol	6.131	139	709506	49.39	ppm		91
30) 2,4-Dimethylphenol	6.228	107	1211012	53.72	ppm		94
31) Benzoic acid	6.409	105	697916	37.89	ppm		95
32) bis(2-Chloroethoxy)met...	6.313	93	1142006	43.65	ppm		97
33) 2,4-Dichlorophenol	6.436	162	996660	45.69	ppm		94
34) 2,6-Dichlorophenol	6.692	162	1019813	47.54	ppm	#	1
36) 1,2,4-Trichlorobenzene	6.500	180	915820	37.31	ppm		94
38) Naphthalene	6.591	128	3473103	44.76	ppm		96
39) 4-Chloroaniline	6.692	127	668853	20.58	ppm		93
40) 2,3-Dichloroaniline	7.782	161	1068954	39.32	ppm		99
41) Caprolactam	7.125	55	323351	37.06	ppm		91
42) Hexachlorobutadiene	6.735	225	455434	36.04	ppm		97
43) 4-Chloro-3-methylphenol	7.323	107	1198079	51.40	ppm	#	73
44) 2-Methylnaphthalene	7.419	141	2021444	45.17	ppm		94
45) 1-Methylnaphthalene	7.536	141	2231282	48.01	ppm		91
46) Dimethylnaphthalene	8.172	156	2247121	46.11	ppm		93
48) Hexachlorocyclopentadiene	7.600	237	745852	66.44	ppm		97
49) 2,4,6-Trichlorophenol	7.787	196	709156	46.49	ppm		93
50) 2,4,5-Trichlorophenol	7.852	196	735706	44.68	ppm		98
52) 2-Chloronaphthalene	8.007	162	2134984	42.30	ppm		91
53) Biphenyl	7.990	154	2980020	45.58	ppm		96
54) 2-Nitroaniline	8.172	65	750350	59.13	ppm		90
55) Dimethylphthalate	8.391	163	2717315	45.42	ppm		99
56) Acenaphthylene	8.503	152	3608125	44.99	ppm		97
57) 2,6-Dinitrotoluene	8.466	165	621249	50.44	ppm		91
58) 3-Nitroaniline	8.680	138	461484	32.21	ppm		94
59) Acenaphthene	8.712	153	2381732	46.43	ppm		96
60) 2,4-Dinitrophenol	8.797	184	715939	92.58	ppm	#	77
61) 4-Nitrophenol	8.968	109	351323	48.31	ppm		91
62) Dibenzofuran	8.925	168	3243931	46.46	ppm		96
63) 2,4-Dinitrotoluene	8.947	165	884963	53.77	ppm		98
64) 2,3,4,6-Tetrachlorophenol	9.102	232	585895	45.11	ppm		96
65) Diethylphthalate	9.246	149	2840668	46.48	ppm		98
66) Fluorene	9.337	166	2630095	45.72	ppm		99
67) 4-Chlorophenyl-phenyle...	9.353	204	1157566	42.71	ppm		81
68) 4-Nitroaniline	9.433	138	717008	49.52	ppm	#	73
70) 4,6-Dinitro-2-methylph...	9.438	198	488242	51.89	ppm		73
71) n-Nitrosodiphenylamine	9.513	169	1735032	40.90	ppm		98
72) 1,2-Diphenylhydrazine	9.545	77	2225460	50.57	ppm		83
74) 4-Bromophenyl-phenylether	9.946	248	700208	42.95	ppm		92
75) Hexachlorobenzene	9.994	284	760948	45.97	ppm		87
76) Pentachlorophenol	10.277	266	456764	45.24	ppm		98
77) Phenanthrene	10.523	178	3766142	45.56	ppm		98
78) Anthracene	10.587	178	3815250	45.93	ppm		99
79) Carbazole	10.833	167	3735051	47.75	ppm		92

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27895.D
Acq On : 2 May 2016 7:18 pm
Operator : ashleyn
Sample : op93534-ms
Misc : op93534,e5p1414,500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 03 08:29:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration

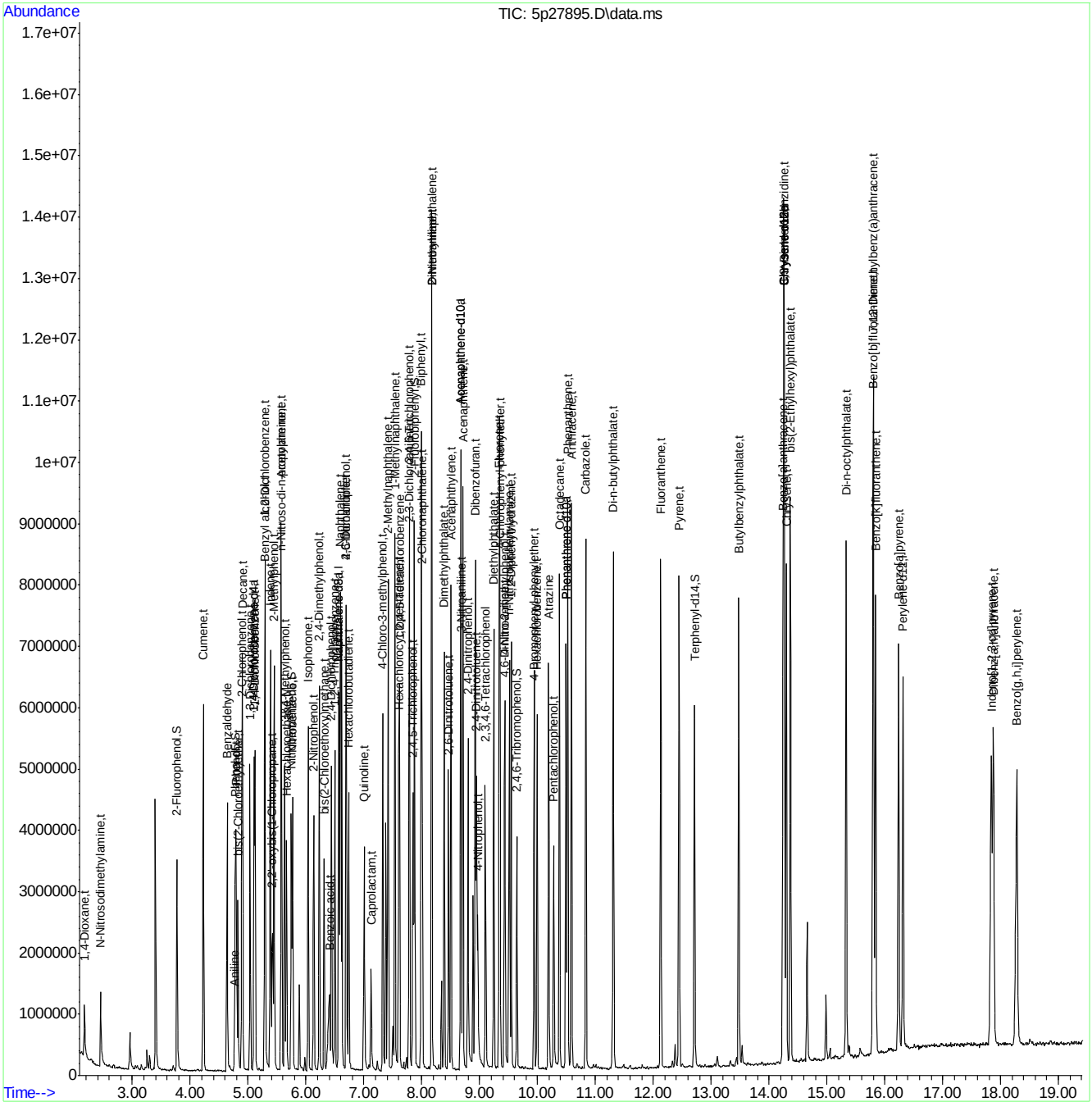
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Di-n-butylphthalate	11.313	149	4921110	49.65	ppm	100
81)	Fluoranthene	12.131	202	3974571	46.52	ppm	96
82)	Octadecane	10.378	57	1428602	52.41	ppm	75
84)	Pyrene	12.446	202	4173957	49.33	ppm	97
86)	Butylbenzylphthalate	13.477	149	2179956	52.52	ppm	85
88)	Benzo[a]anthracene	14.241	228	3620939	47.63	ppm	99
89)	3,3'-Dichlorobenzidine	14.257	252	1562276	56.11	ppm	96
90)	Chrysene	14.300	228	3515116	45.29	ppm	96
91)	bis(2-Ethylhexyl)phtha...	14.369	149	3051383	51.85	ppm	99
93)	Di-n-octylphthalate	15.336	149	4943337	54.32	ppm	98
94)	Benzo[b]fluoranthene	15.806	252	3627447	47.39	ppm	99
95)	Benzo[k]fluoranthene	15.844	252	3621944	49.51	ppm	97
96)	Benzo[a]pyrene	16.239	252	3196693	46.59	ppm	97
97)	Indeno[1,2,3-cd]pyrene	17.842	276	3539629m	52.59	ppm	
99)	Dibenz[a,h]anthracene	17.879	278	3492272	49.64	ppm	96
100)	7,12-Dimethylbenz(a)an...	15.801	256	1485485	50.43	ppm	99
101)	Benzo[g,h,i]perylene	18.280	276	3358519	46.96	ppm	97
103)	Benzaldehyde	4.636	105	901860	48.85	ppm	91
105)	1,2,4,5-Tetrachloroben...	7.617	216	952061	38.47	ppm	97
111)	Atrazine	10.191	215	385780	50.90	ppm	89

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27895.D
Acq On : 2 May 2016 7:18 pm
Operator : ashleyn
Sample : op93534-ms
Misc : op93534,e5p1414,500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 03 08:29:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

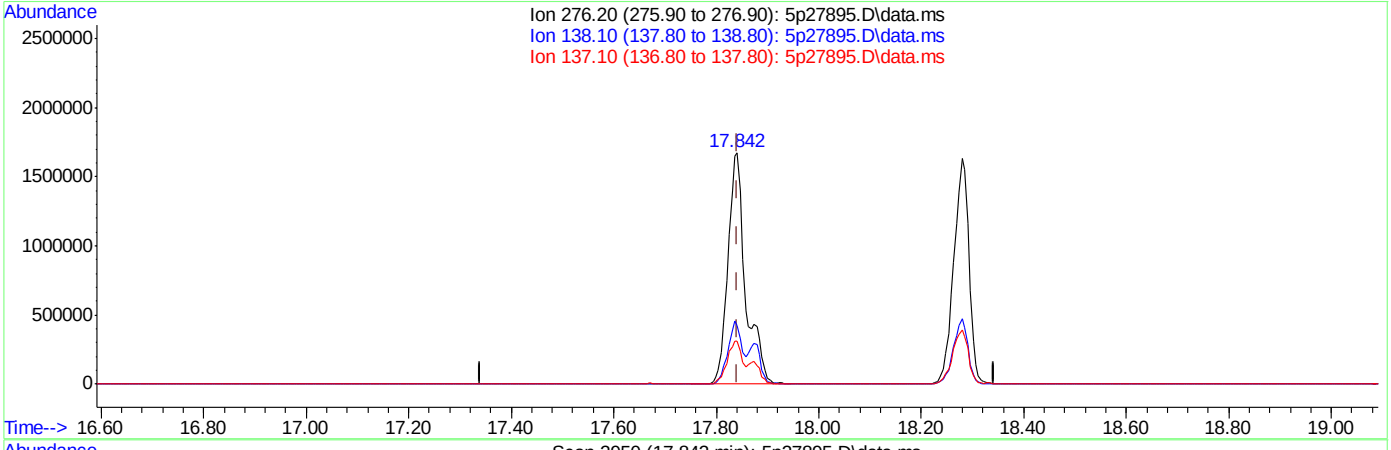
Sample Number:	OP93534-MS	**Method:**	SW846 8270D
Lab FileID:	5P27895.D	**Analyst approved:**	05/09/16 11:54 Ashley Dye
Injection Time:	05/02/16 19:18	**Supervisor approved:**	05/09/16 11:58 Nina Pandya

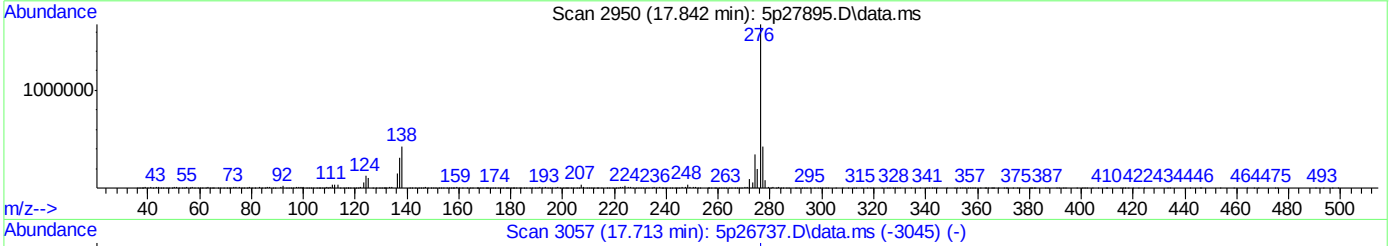
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.84	Overlapping peak

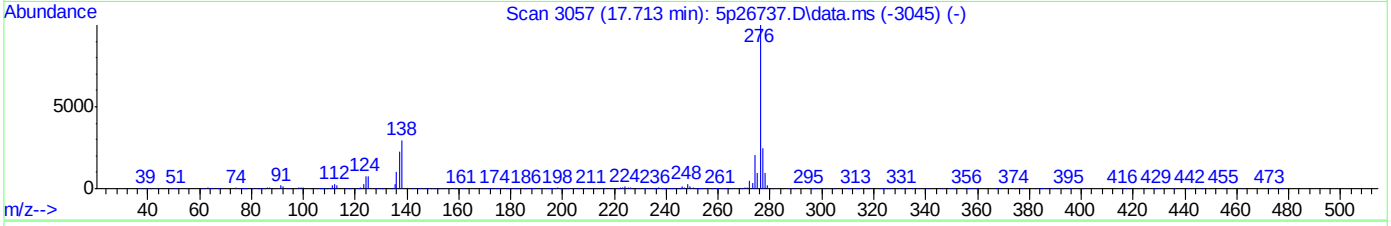
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27895.D
Acq On : 2 May 2016 7:18 pm
Operator : ashleyn
Sample : op93534-ms
Misc : op93534,e5p1414,500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 02 19:38:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration







TIC: 5p27895.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.842min (-0.000) 60.20ppm

response 4051461

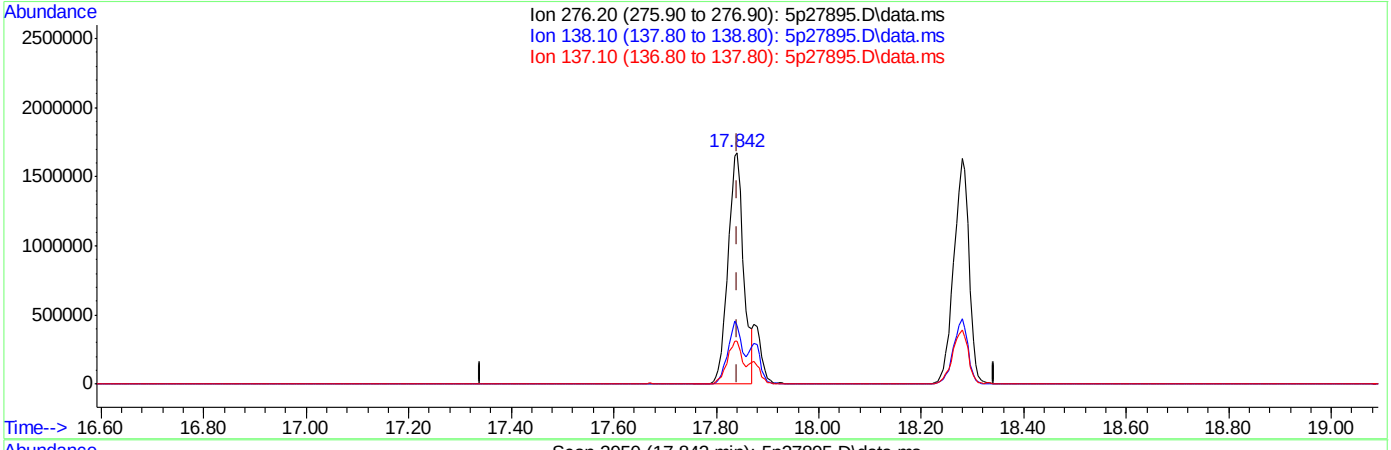
Ion	Exp%	Act%
276.20	100	100
138.10	25.40	25.35
137.10	20.30	18.54
0.00	0.00	0.00

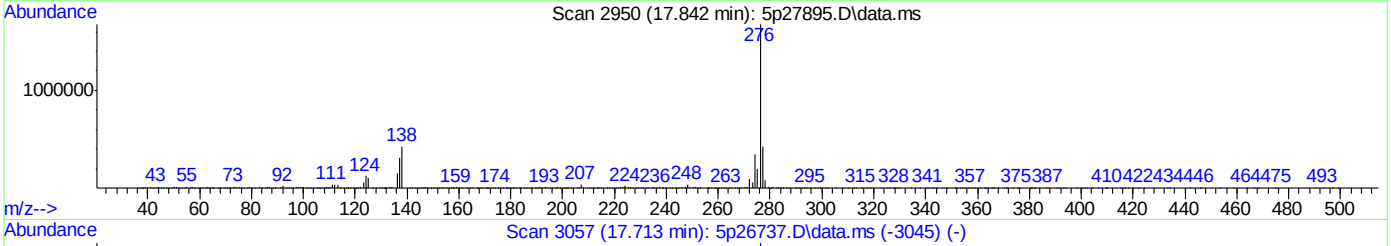
SGS ACCUTEST JC19423

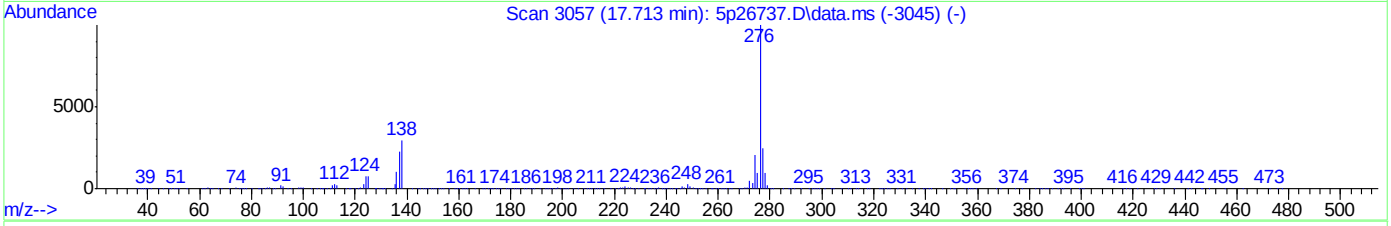
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27895.D
Acq On : 2 May 2016 7:18 pm
Operator : ashleyn
Sample : op93534-ms
Misc : op93534,e5p1414,500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 02 19:38:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration







TIC: 5p27895.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.842min (-0.000) 52.59ppm m

response 3539629

Ion	Exp%	Act%
276.20	100	100
138.10	25.40	25.42
137.10	20.30	18.76
0.00	0.00	0.00

SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/09/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27896.D
Acq On : 2 May 2016 7:45 pm
Operator : ashleyn
Sample : op93534-msd
Misc : op93534,e5p1414,500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 03 08:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.101	152	740467	40.00	ppm	0.00
24) Naphthalene-d8	6.570	136	2971369	40.00	ppm	0.00
47) Acenaphthene-d10	8.674	164	1771075	40.00	ppm	0.00
69) Phenanthrene-d10	10.491	188	2840457	40.00	ppm	0.00
83) Chrysene-d12	14.257	240	2688269	40.00	ppm	0.00
92) Perylene-d12	16.319	264	2550561	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.101	152	740467	40.00	ppm	0.00
104) Acenaphthene-d10a	8.674	164	1771075	40.00	ppm	0.00
106) Chrysene-d12a	14.257	240	2688720	40.00	ppm	0.00
109) Phenanthrene-d10a	10.491	188	2840457	40.00	ppm	0.00
112) Naphthalene-d8a	6.570	136	2971369	40.00	ppm	0.00
114) Chrysene-d12b	14.257	240	2688720	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.770	112	983336	43.33	ppm	-0.02
Spiked Amount 50.000			Recovery	=	86.66%	
8) Phenol-d5	4.780	99	982810	38.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	76.24%	
25) Nitrobenzene-d5	5.747	82	1142494	50.66	ppm	0.06
Spiked Amount 50.000			Recovery	=	101.32%	
51) 2-Fluorobiphenyl	7.873	172	2612431	46.33	ppm	-0.01
Spiked Amount 50.000			Recovery	=	92.66%	
73) 2,4,6-Tribromophenol	9.641	330	402484	58.69	ppm	0.00
Spiked Amount 50.000			Recovery	=	117.38%	
85) Terphenyl-d14	12.708	244	2073605	38.38	ppm	-0.02
Spiked Amount 50.000			Recovery	=	76.76%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.173	88	307122	35.37	ppm	96
4) N-Nitrosodimethylamine	2.451	74	429821	40.12	ppm	87
6) Indene	5.384	116	2023648	49.95	ppm	92
7) Cumene	4.224	105	2406437	44.04	ppm	98
9) Phenol	4.791	94	1026444	38.50	ppm	94
10) Aniline	4.764	93	407681	14.11	ppm #	32
11) bis(2-Chloroethyl)ether	4.823	93	935516	47.29	ppm	97
12) 2-Chlorophenol	4.892	128	1221267	47.59	ppm	95
13) Decane	4.903	43	1075638	63.33	ppm	76
14) 1,3-Dichlorobenzene	5.031	146	1107105	38.88	ppm	92
15) 1,4-Dichlorobenzene	5.122	146	1142160	39.77	ppm	97
16) Benzyl alcohol	5.293	108	671289	45.69	ppm	92
17) 1,2-Dichlorobenzene	5.287	146	1118854	40.99	ppm	99
18) Acetophenone	5.571	105	1606633	50.49	ppm	96
19) 2-Methylphenol	5.448	108	1005070	51.44	ppm	96
20) 2,2'-oxybis(1-Chloropr...	5.421	45	1128566	49.65	ppm	73
21) 3&4-Methylphenol	5.629	108	1052753	50.65	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27896.D
Acq On : 2 May 2016 7:45 pm
Operator : ashleyn
Sample : op93534-msd
Misc : op93534,e5p1414,500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 03 08:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22)	n-Nitroso-di-n-propyla...	5.576	70	694443	49.02	ppm		95
23)	Hexachloroethane	5.661	201	335211	36.22	ppm		86
26)	Nitrobenzene	5.768	77	1021687	45.95	ppm		99
27)	Quinoline	7.002	129	2045182	39.25	ppm		97
28)	Isophorone	6.041	82	1948364	50.15	ppm		96
29)	2-Nitrophenol	6.132	139	686835	49.28	ppm		87
30)	2,4-Dimethylphenol	6.228	107	1204423	55.06	ppm		95
31)	Benzoic acid	6.409	105	710626m	39.76	ppm		
32)	bis(2-Chloroethoxy)met...	6.308	93	1108718	43.68	ppm		98
33)	2,4-Dichlorophenol	6.436	162	1020625	48.22	ppm		95
34)	2,6-Dichlorophenol	6.692	162	988933	47.51	ppm	#	1
36)	1,2,4-Trichlorobenzene	6.500	180	909231	38.18	ppm		93
38)	Naphthalene	6.591	128	3433738	45.61	ppm		94
39)	4-Chloroaniline	6.692	127	857890	27.21	ppm		95
40)	2,3-Dichloroaniline	7.782	161	1142458	43.31	ppm		100
41)	Caprolactam	7.125	55	295587	34.92	ppm		91
42)	Hexachlorobutadiene	6.735	225	442551	36.10	ppm		100
43)	4-Chloro-3-methylphenol	7.323	107	1179369	52.15	ppm		95
44)	2-Methylnaphthalene	7.419	141	2010355	46.30	ppm		92
45)	1-Methylnaphthalene	7.537	141	2170629	48.13	ppm		92
46)	Dimethylnaphthalene	8.172	156	2185390	46.22	ppm		92
48)	Hexachlorocyclopentadiene	7.601	237	750188	67.59	ppm		99
49)	2,4,6-Trichlorophenol	7.788	196	704620	46.72	ppm		96
50)	2,4,5-Trichlorophenol	7.846	196	753052	46.25	ppm		91
52)	2-Chloronaphthalene	8.007	162	2102466	42.13	ppm		93
53)	Biphenyl	7.991	154	2906021	44.96	ppm		95
54)	2-Nitroaniline	8.172	65	749020	59.70	ppm		91
55)	Dimethylphthalate	8.391	163	2710558	45.82	ppm		98
56)	Acenaphthylene	8.504	152	3572818	45.05	ppm		94
57)	2,6-Dinitrotoluene	8.466	165	641927	52.71	ppm		86
58)	3-Nitroaniline	8.680	138	506610	35.77	ppm		92
59)	Acenaphthene	8.712	153	2375274	46.84	ppm		96
60)	2,4-Dinitrophenol	8.797	184	710186	92.87	ppm		80
61)	4-Nitrophenol	8.968	109	359837	50.05	ppm		93
62)	Dibenzofuran	8.926	168	3192811	46.25	ppm		97
63)	2,4-Dinitrotoluene	8.947	165	878474	53.99	ppm		100
64)	2,3,4,6-Tetrachlorophenol	9.102	232	565986	44.08	ppm		90
65)	Diethylphthalate	9.246	149	2812948	46.55	ppm		97
66)	Fluorene	9.337	166	2656556	46.71	ppm		97
67)	4-Chlorophenyl-phenyle...	9.353	204	1150236	42.93	ppm		80
68)	4-Nitroaniline	9.433	138	698198	48.78	ppm		73
70)	4,6-Dinitro-2-methylph...	9.438	198	497247	54.76	ppm		83
71)	n-Nitrosodiphenylamine	9.513	169	1713079	41.84	ppm		100
72)	1,2-Diphenylhydrazine	9.545	77	2204258	51.90	ppm		84
74)	4-Bromophenyl-phenylether	9.946	248	706931	44.93	ppm		91
75)	Hexachlorobenzene	9.994	284	727239	45.52	ppm		97
76)	Pentachlorophenol	10.277	266	455206	46.71	ppm		98
77)	Phenanthrene	10.523	178	3699829	46.38	ppm		98
78)	Anthracene	10.587	178	3735207	46.59	ppm		99
79)	Carbazole	10.833	167	3725977	49.36	ppm		93

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27896.D
Acq On : 2 May 2016 7:45 pm
Operator : ashleyn
Sample : op93534-msd
Misc : op93534,e5p1414,500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 03 08:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
80) Di-n-butylphthalate	11.314	149	4883596	51.05 ppm	99
81) Fluoranthene	12.131	202	3882322	47.09 ppm	97
82) Octadecane	10.379	57	1427693	54.27 ppm	74
84) Pyrene	12.451	202	4142631	50.06 ppm	99
86) Butylbenzylphthalate	13.477	149	2151909	53.01 ppm	84
88) Benzo[a]anthracene	14.241	228	3598413	48.40 ppm	99
89) 3,3'-Dichlorobenzidine	14.257	252	1764218	64.79 ppm	97
90) Chrysene	14.300	228	3559449	46.89 ppm	97
91) bis(2-Ethylhexyl)phtha...	14.369	149	3071613	53.36 ppm	99
93) Di-n-octylphthalate	15.336	149	4972540	56.21 ppm	98
94) Benzo[b]fluoranthene	15.806	252	3584731	48.17 ppm	97
95) Benzo[k]fluoranthene	15.844	252	3524620	49.56 ppm	97
96) Benzo[a]pyrene	16.239	252	3072476	46.06 ppm	97
97) Indeno[1,2,3-cd]pyrene	17.836	276	3144823	48.06 ppm	94
99) Dibenz[a,h]anthracene	17.879	278	3237588	47.34 ppm	98
100) 7,12-Dimethylbenz(a)an...	15.801	256	1430684	49.96 ppm	98
101) Benzo[g,h,i]perylene	18.280	276	3199150	46.01 ppm	99
103) Benzaldehyde	4.636	105	895253	49.79 ppm	88
105) 1,2,4,5-Tetrachloroben...	7.617	216	976231	39.90 ppm	97
111) Atrazine	10.192	215	380324	52.00 ppm	93

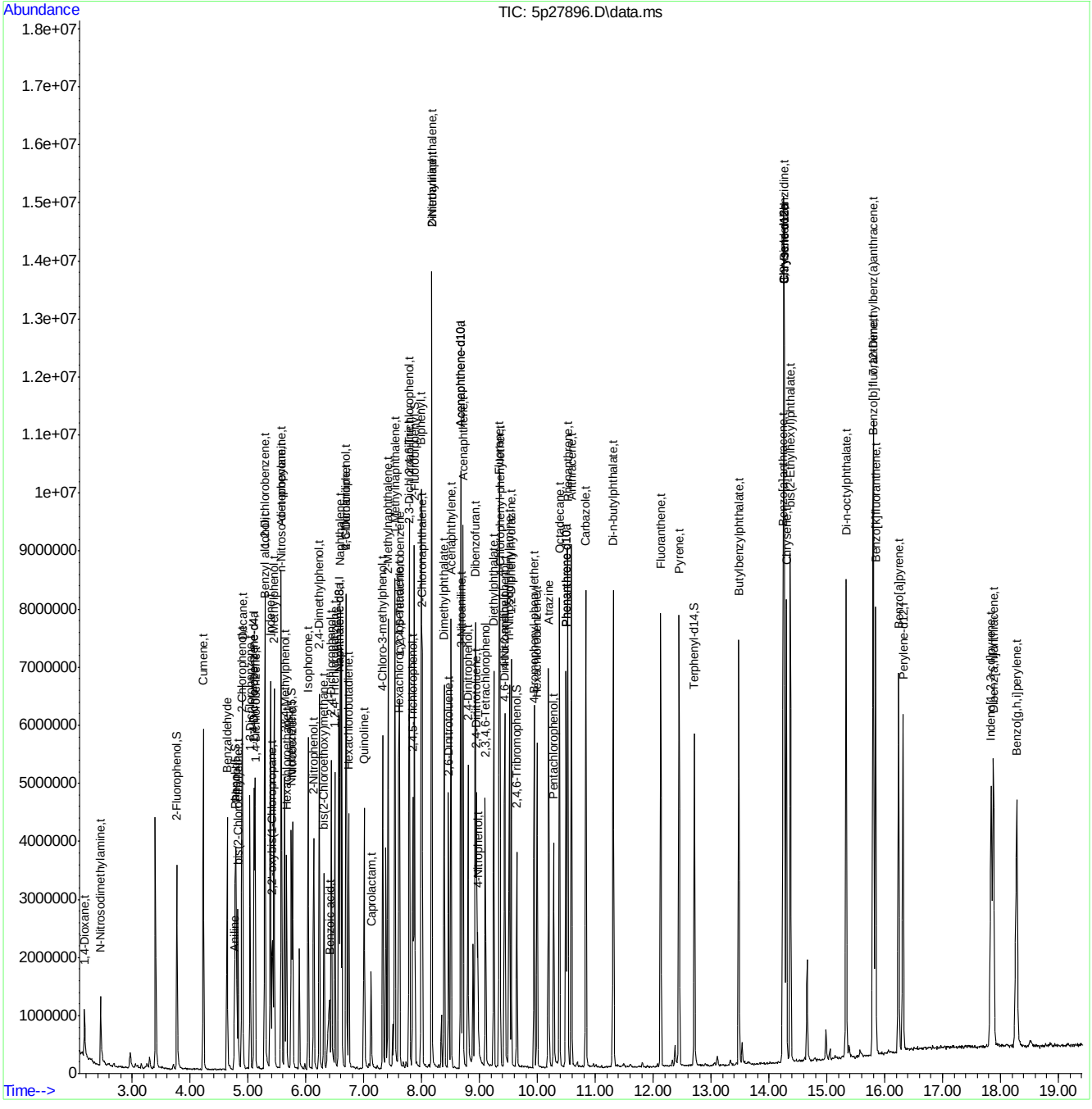
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27896.D
Acq On : 2 May 2016 7:45 pm
Operator : ashleyn
Sample : op93534-msd
Misc : op93534,e5p1414,500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 03 08:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration



Manual Integration Approval Summary

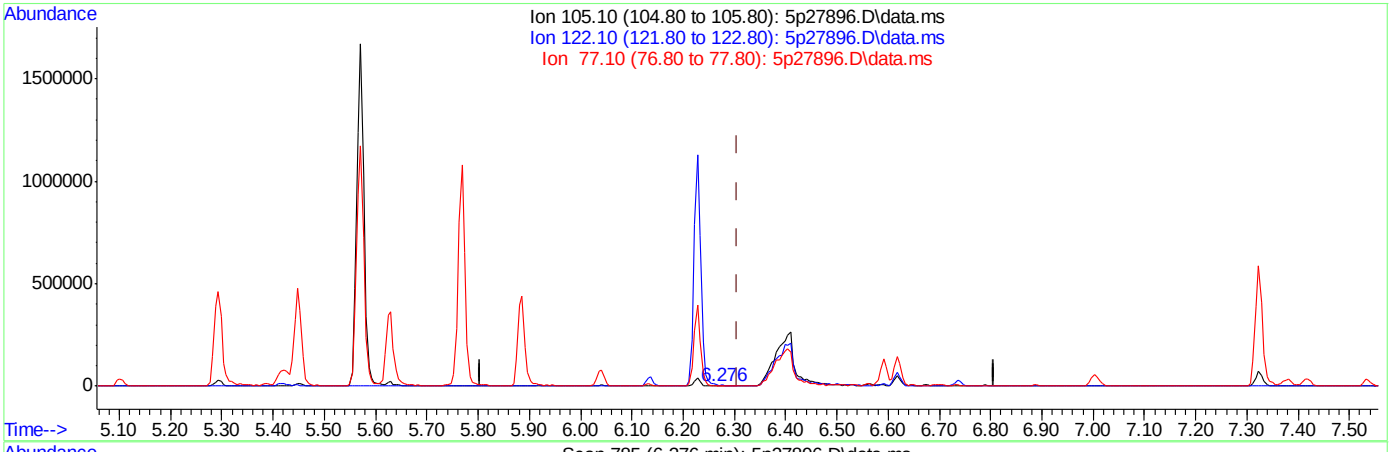
Sample Number:	OP93534-MSD	**Method:**	SW846 8270D
Lab FileID:	5P27896.D	**Analyst approved:**	05/09/16 11:54 Ashley Dye
Injection Time:	05/02/16 19:45	**Supervisor approved:**	05/09/16 11:58 Nina Pandya

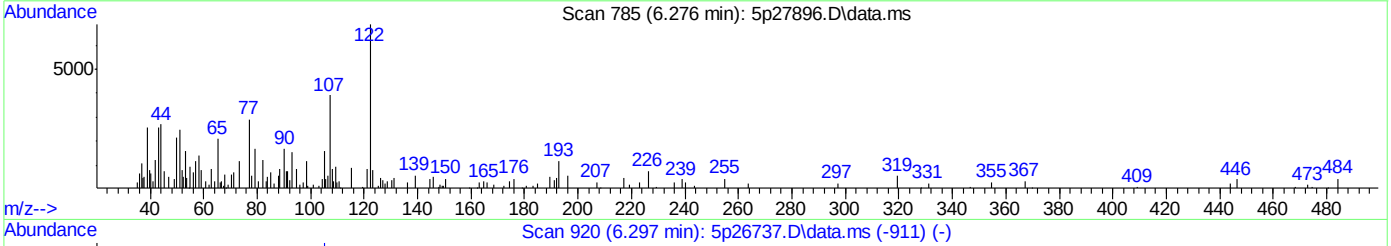
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.41	Split peak

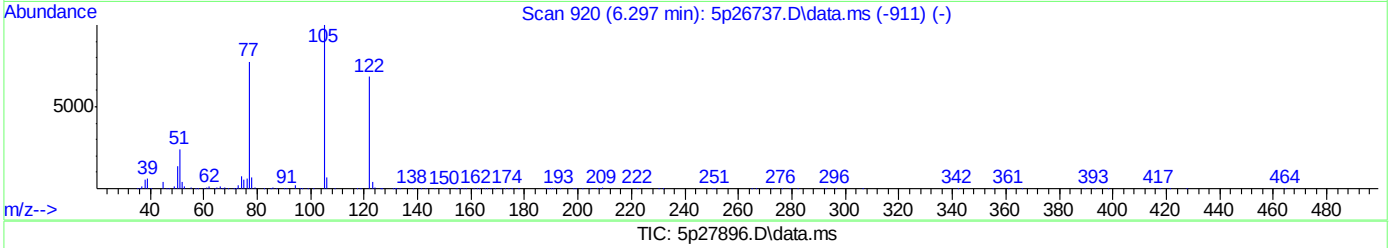
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27896.D
Acq On : 2 May 2016 7:45 pm
Operator : ashleyn
Sample : op93534-msd
Misc : op93534,e5p1414,500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 02 20:04:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration







TIC: 5p27896.D\data.ms

(31) Benzoic acid (t)

6.276min (-0.030) 0.11ppm

response 1972

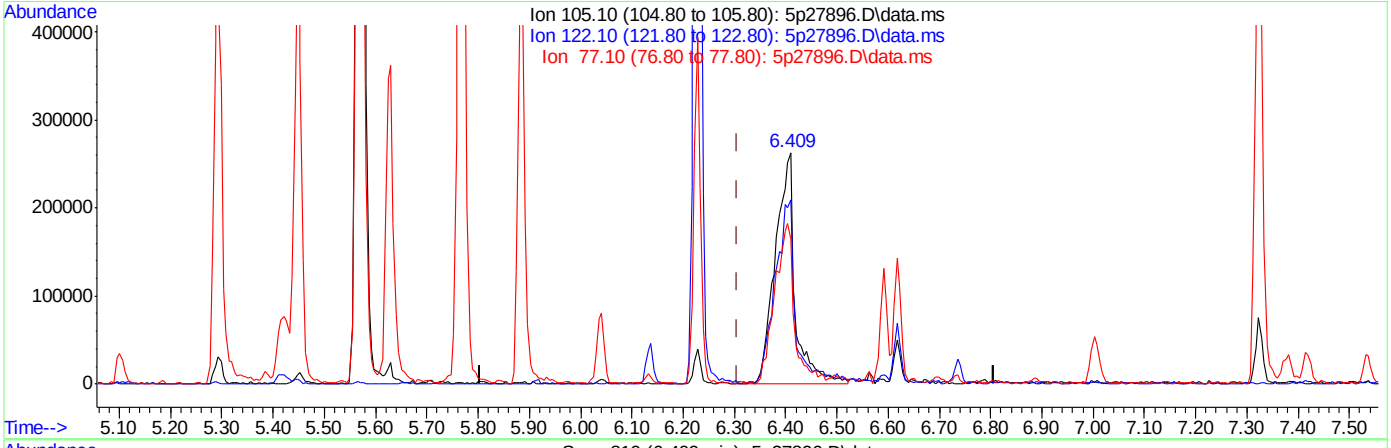
Ion	Exp%	Act%
105.10	100	100
122.10	79.80	52.03
77.10	55.60	48.09
0.00	0.00	0.00

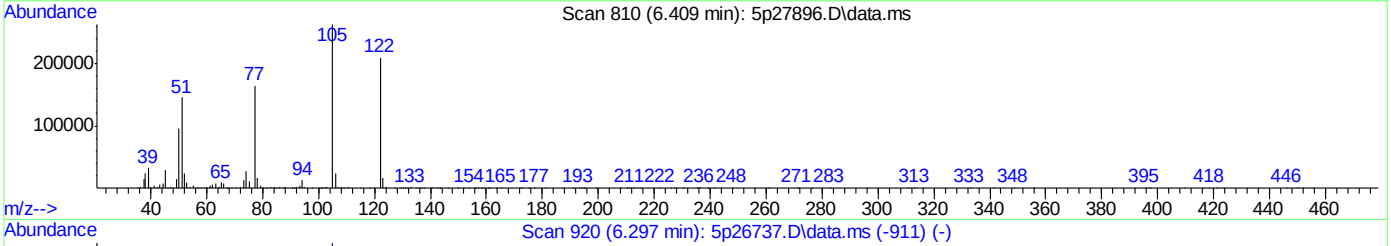
SGS ACCUTEST JC19423

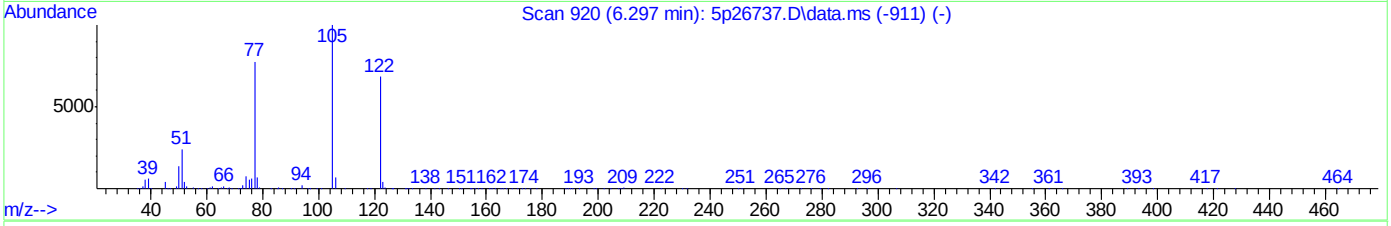
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27896.D
Acq On : 2 May 2016 7:45 pm
Operator : ashleyn
Sample : op93534-msd
Misc : op93534,e5p1414,500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 02 20:04:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:23:12 2016
Response via : Initial Calibration







TIC: 5p27896.D\data.ms

(31) Benzoic acid (t)

6.409min (+0.103) 39.76ppm m

response 710626

Ion	Exp%	Act%
105.10	100	100
122.10	79.80	79.48
77.10	55.60	62.44
0.00	0.00	0.00

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83095.D
Acq On : 11 May 2016 12:26 pm
Operator : ashleyn
Sample : op93597-ms
Misc : op93597,e3e3643,31.9
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 09:25:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.420	152	156087	40.00 ppm	0.00
24) Naphthalene-d8	5.468	136	569579	40.00 ppm	0.00
47) Acenaphthene-d10	7.463	164	351273	40.00 ppm	0.00
69) Phenanthrene-d10	9.614	188	603382	40.00 ppm	0.00
83) Chrysene-d12	13.786	240	666311	40.00 ppm	0.00
92) Perylene-d12	15.893	264	513496	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.420	152	156087	40.00 ppm	0.00
104) Acenaphthene-d10a	7.463	164	351273	40.00 ppm	0.00
106) Phenanthrene-d10a	9.614	188	603382	40.00 ppm	0.00
108) Chrysene-d12a	13.786	240	666311	40.00 ppm	0.00
110) Naphthalene-d8a	5.468	136	569579	40.00 ppm	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	3.473	112	134651	28.14 ppm	0.02
Spiked Amount 50.000			Recovery	= 56.28%	
8) Phenol-d5	4.217	99	169468	27.22 ppm	0.04
Spiked Amount 50.000			Recovery	= 54.44%	
25) Nitrobenzene-d5	4.853	82	184856	32.45 ppm	0.00
Spiked Amount 50.000			Recovery	= 64.90%	
51) 2-Fluorobiphenyl	6.618	172	405142	34.78 ppm	0.00
Spiked Amount 50.000			Recovery	= 69.56%	
73) 2,4,6-Tribromophenol	8.592	330	75928	35.68 ppm	0.00
Spiked Amount 50.000			Recovery	= 71.36%	
85) Terphenyl-d14	12.170	244	484504	34.64 ppm	-0.01
Spiked Amount 50.000			Recovery	= 69.28%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.885	88	29995	21.08 ppm	94
3) Pyridine	2.232	79	87887	21.73 ppm	96
4) N-Nitrosodimethylamine	2.200	74	61291	26.62 ppm	93
6) Indene	4.613	116	271346	29.14 ppm	99
7) Cumene	3.810	105	353705	25.97 ppm	97
9) Phenol	4.228	94	172985	25.35 ppm	96
10) Aniline	4.185	93	163566	20.64 ppm	78
11) bis(2-Chloroethyl)ether	4.233	93	138047	29.49 ppm	93
12) 2-Chlorophenol	4.286	128	160574	28.39 ppm	99
13) Decane	4.297	43	146847	24.53 ppm	95
14) 1,3-Dichlorobenzene	4.377	146	182436	29.50 ppm	98
15) 1,4-Dichlorobenzene	4.436	146	191082	29.44 ppm	98
16) Benzyl alcohol	4.543	108	94032	27.27 ppm	97
17) 1,2-Dichlorobenzene	4.543	146	178587	30.55 ppm	99
18) Acetophenone	4.736	105	214962	27.76 ppm	100
19) 2-Methylphenol	4.655	108	131809	27.56 ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.634	121	51946	27.09 ppm	96
21) 3&4-Methylphenol	4.778	108	140571	27.97 ppm	98
22) n-Nitroso-di-n-propyla...	4.736	70	106137	25.89 ppm	79
23) Hexachloroethane	4.800	201	75313	36.29 ppm	94
26) Nitrobenzene	4.869	77	178452	30.34 ppm	94
27) Quinoline	5.821	129	312825	31.58 ppm	97
28) Isophorone	5.067	82	291793	30.56 ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83095.D
Acq On : 11 May 2016 12:26 pm
Operator : ashleyn
Sample : op93597-ms
Misc : op93597,e3e3643,31.9
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 09:25:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 2-Nitrophenol	5.131	139	90391	30.02 ppm	90
30) 2,4-Dimethylphenol	5.196	107	162188	31.30 ppm	98
31) Benzoic acid	5.319	105	109322	28.64 ppm	96
32) bis(2-Chloroethoxy)met...	5.254	93	153050	29.44 ppm	98
33) 2,4-Dichlorophenol	5.377	162	150257	37.19 ppm	96
34) 2,6-Dichlorophenol	5.565	162	140097	33.94 ppm	95
36) 1,2,4-Trichlorobenzene	5.415	180	168118	36.47 ppm	97
38) Naphthalene	5.484	128	483514	30.70 ppm	97
39) 4-Chloroaniline	5.554	127	153077	23.86 ppm	97
40) 2,3-Dichloroaniline	6.527	161	172508	33.87 ppm	97
41) Caprolactam	5.912	55	60628	28.11 ppm	98
42) Hexachlorobutadiene	5.597	225	114051	41.28 ppm	95
43) 4-Chloro-3-methylphenol	6.100	107	144769	31.40 ppm	93
44) 2-Methylnaphthalene	6.190	141	287854	32.20 ppm	93
45) 1-Methylnaphthalene	6.303	141	313206	33.59 ppm	96
46) Dimethylnaphthalene	6.934	156	318537	35.30 ppm	99
48) Hexachlorocyclopentadiene	6.362	237	150585	54.52 ppm	96
49) 2,4,6-Trichlorophenol	6.543	196	116169	36.47 ppm	94
50) 2,4,5-Trichlorophenol	6.624	196	115648	32.60 ppm	97
52) 2-Chloronaphthalene	6.757	162	329330	33.08 ppm	100
53) Biphenyl	6.741	154	429038	32.31 ppm	98
54) 2-Nitroaniline	6.913	65	113625	30.79 ppm	94
55) Dimethylphthalate	7.148	163	397416	34.07 ppm	100
56) Acenaphthylene	7.276	152	507376	30.53 ppm	98
57) 2,6-Dinitrotoluene	7.233	165	88359	33.84 ppm	92
58) 3-Nitroaniline	7.458	138	72269	24.85 ppm	95
59) Acenaphthene	7.506	153	361628	32.77 ppm	98
60) 2,4-Dinitrophenol	7.624	184	79474	61.08 ppm	90
61) 4-Nitrophenol	7.859	109	66585	35.45 ppm	91
62) Dibenzofuran	7.747	168	468435	32.25 ppm	87
63) 2,4-Dinitrotoluene	7.790	165	120786	33.81 ppm	81
64) 2,3,4,6-Tetrachlorophenol	7.961	232	88185	33.54 ppm	90
65) Diethylphthalate	8.132	149	413269	33.73 ppm	98
66) Fluorene	8.228	166	406008	33.38 ppm	100
67) 4-Chlorophenyl-phenyle...	8.255	204	205926	37.14 ppm	96
68) 4-Nitroaniline	8.319	138	83885	30.01 ppm	94
70) 4,6-Dinitro-2-methylph...	8.373	198	71901	33.56 ppm	91
71) n-Nitrosodiphenylamine	8.442	169	275733	32.90 ppm	93
72) 1,2-Diphenylhydrazine	8.485	77	401254	32.14 ppm	95
74) 4-Bromophenyl-phenylether	8.972	248	134792	37.58 ppm	95
75) Hexachlorobenzene	9.031	284	152946	35.55 ppm	97
76) Pentachlorophenol	9.378	266	52650	25.71 ppm	98
77) Phenanthrene	9.651	178	562165	32.11 ppm	98
78) Anthracene	9.731	178	544627	31.05 ppm	99
79) Carbazole	10.025	167	499351	31.47 ppm	98
80) Di-n-butylphthalate	10.646	149	666277	32.51 ppm	97
81) Fluoranthene	11.502	202	663797	34.96 ppm	96
82) Octadecane	9.576	57	213860	30.00 ppm	94
84) Pyrene	11.849	202	675377	33.86 ppm	98
86) Butylbenzylphthalate	13.015	149	291392	30.63 ppm	98

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83095.D
Acq On : 11 May 2016 12:26 pm
Operator : ashleyn
Sample : op93597-ms
Misc : op93597,e3e3643,31.9
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 09:25:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
88) Benzo[a]anthracene	13.769	228	645488	33.15 ppm		97
89) 3,3'-Dichlorobenzidine	13.796	252	418905	57.84 ppm		97
90) Chrysene	13.823	228	592992	32.63 ppm		99
91) bis(2-Ethylhexyl)phtha...	13.973	149	370253	30.25 ppm		98
93) Di-n-octylphthalate	14.968	149	593602	29.88 ppm		98
94) Benzo[b]fluoranthene	15.379	252	584123	33.65 ppm		97
95) Benzo[k]fluoranthene	15.417	252	557306	35.97 ppm		99
96) Benzo[a]pyrene	15.818	252	474620	32.75 ppm		100
97) Indeno[1,2,3-cd]pyrene	17.316	276	433110	31.37 ppm		92
99) Dibenz[a,h]anthracene	17.348	278	431526	31.46 ppm		98
100) 7,12-Dimethylbenz(a)an...	15.369	256	279243	36.09 ppm		95
101) Benzo[g,h,i]perylene	17.701	276	420522	31.61 ppm		92
103) Benzaldehyde	4.099	105	103722	24.52 ppm	#	81
105) 1,2,4,5-Tetrachloroben...	6.383	216	198200	45.57 ppm		97
107) Atrazine	9.293	215	67363	43.87 ppm	#	88
109) benzidine	11.790	184	311997	38.04 ppm		97

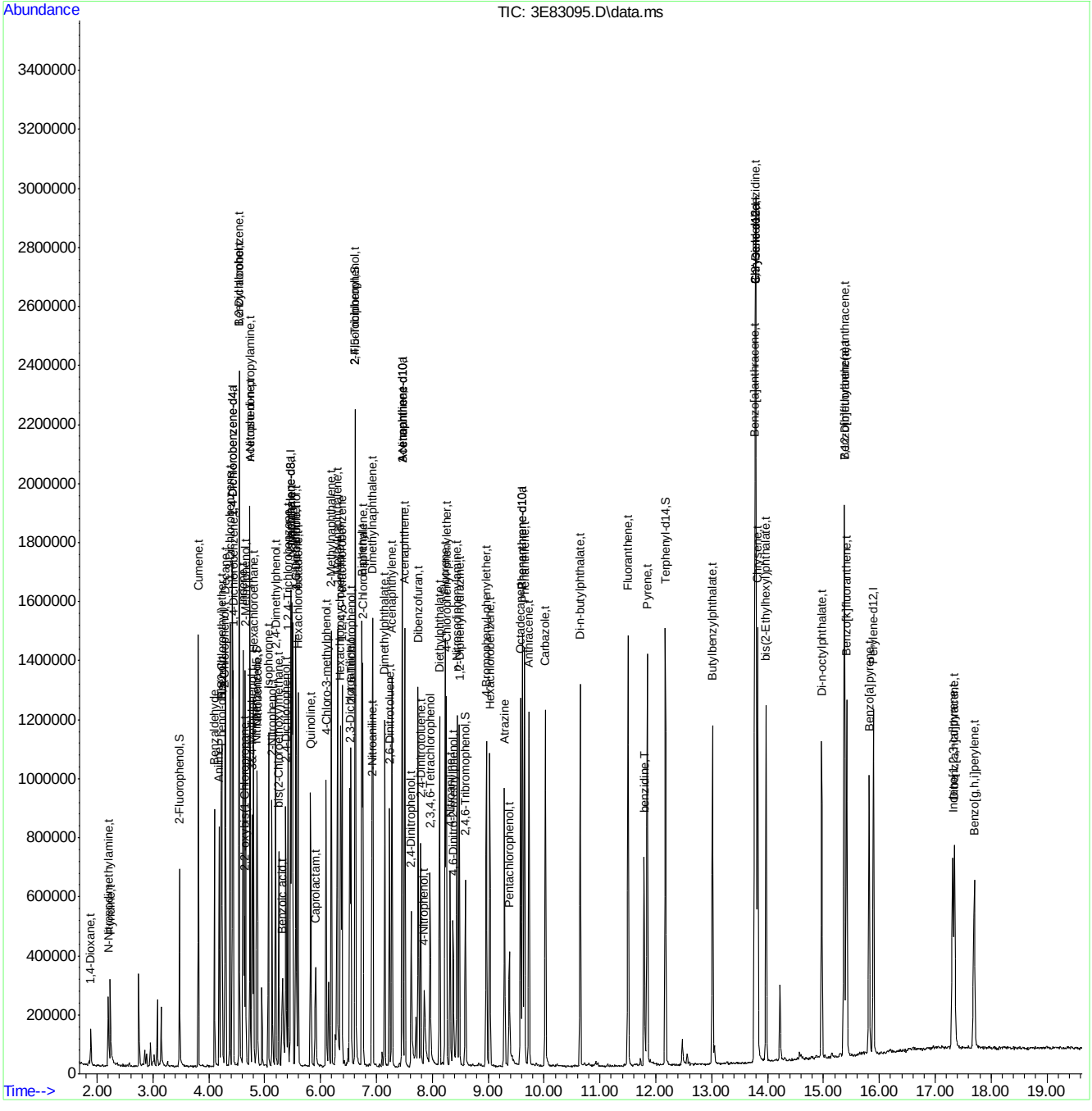
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83095.D
Acq On : 11 May 2016 12:26 pm
Operator : ashleyn
Sample : op93597-ms
Misc : op93597,e3e3643,31.9
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 09:25:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 05/12/16 08:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83096.D
Acq On : 11 May 2016 12:52 pm
Operator : ashleyn
Sample : op93597-msd
Misc : op93597,e3e3643,30.3
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 09:25:43 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.420	152	182834	40.00	ppm	0.00
24) Naphthalene-d8	5.468	136	646695	40.00	ppm	0.00
47) Acenaphthene-d10	7.463	164	401159	40.00	ppm	0.00
69) Phenanthrene-d10	9.614	188	689102	40.00	ppm	0.00
83) Chrysene-d12	13.785	240	737063	40.00	ppm	0.00
92) Perylene-d12	15.893	264	537158	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.420	152	182834	40.00	ppm	0.00
104) Acenaphthene-d10a	7.463	164	401159	40.00	ppm	0.00
106) Phenanthrene-d10a	9.614	188	689102	40.00	ppm	0.00
108) Chrysene-d12a	13.785	240	737063	40.00	ppm	0.00
110) Naphthalene-d8a	5.468	136	646695	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.473	112	145665	25.99	ppm	0.02
Spiked Amount 50.000			Recovery = 51.98%			
8) Phenol-d5	4.211	99	180985	24.82	ppm	0.03
Spiked Amount 50.000			Recovery = 49.64%			
25) Nitrobenzene-d5	4.853	82	193405	29.90	ppm	0.00
Spiked Amount 50.000			Recovery = 59.80%			
51) 2-Fluorobiphenyl	6.618	172	429596	32.29	ppm	0.00
Spiked Amount 50.000			Recovery = 64.58%			
73) 2,4,6-Tribromophenol	8.592	330	78546	32.32	ppm	0.00
Spiked Amount 50.000			Recovery = 64.64%			
85) Terphenyl-d14	12.170	244	501768	32.43	ppm	-0.01
Spiked Amount 50.000			Recovery = 64.86%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.895	88	31959	19.17	ppm	89
3) Pyridine	2.238	79	93258	19.68	ppm	97
4) N-Nitrosodimethylamine	2.206	74	64244	23.82	ppm	85
6) Indene	4.613	116	289309	26.53	ppm	96
7) Cumene	3.816	105	372175	23.33	ppm	97
9) Phenol	4.222	94	190207	23.80	ppm	97
10) Aniline	4.185	93	183813	19.80	ppm	73
11) bis(2-Chloroethyl)ether	4.233	93	147421	26.89	ppm	95
12) 2-Chlorophenol	4.286	128	172869	26.09	ppm	97
13) Decane	4.297	43	148967	21.24	ppm	94
14) 1,3-Dichlorobenzene	4.377	146	195804	27.03	ppm	96
15) 1,4-Dichlorobenzene	4.436	146	205601	27.04	ppm	98
16) Benzyl alcohol	4.543	108	107783	26.69	ppm	89
17) 1,2-Dichlorobenzene	4.543	146	189940	27.74	ppm	96
18) Acetophenone	4.736	105	224472	24.75	ppm	96
19) 2-Methylphenol	4.655	108	137196	24.49	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.634	121	52472	23.36	ppm	89
21) 3&4-Methylphenol	4.773	108	147976	25.13	ppm	100
22) n-Nitroso-di-n-propyla...	4.736	70	114881	23.92	ppm	78
23) Hexachloroethane	4.800	201	83452	34.33	ppm	95
26) Nitrobenzene	4.869	77	191707	28.70	ppm	96
27) Quinoline	5.821	129	329517	29.30	ppm	96
28) Isophorone	5.067	82	314112	28.97	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83096.D
Acq On : 11 May 2016 12:52 pm
Operator : ashleyn
Sample : op93597-msd
Misc : op93597,e3e3643,30.3
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 09:25:43 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	5.131	139	95750	28.01	ppm	86
30) 2,4-Dimethylphenol	5.196	107	164098	27.89	ppm	100
31) Benzoic acid	5.324	105	97809	22.57	ppm	97
32) bis(2-Chloroethoxy)met...	5.254	93	160468	27.19	ppm	99
33) 2,4-Dichlorophenol	5.377	162	156965	34.21	ppm	96
34) 2,6-Dichlorophenol	5.565	162	150915	32.20	ppm	96
36) 1,2,4-Trichlorobenzene	5.415	180	176098	33.64	ppm	100
38) Naphthalene	5.484	128	516166	28.87	ppm	97
39) 4-Chloroaniline	5.554	127	160537	22.04	ppm	99
40) 2,3-Dichloroaniline	6.527	161	183888	31.80	ppm	98
41) Caprolactam	5.912	55	62220	25.41	ppm	99
42) Hexachlorobutadiene	5.597	225	115716	36.89	ppm	98
43) 4-Chloro-3-methylphenol	6.099	107	152272	29.09	ppm	91
44) 2-Methylnaphthalene	6.190	141	310499	30.59	ppm	96
45) 1-Methylnaphthalene	6.303	141	332195	31.38	ppm	96
46) Dimethylnaphthalene	6.934	156	337061	32.90	ppm	99
48) Hexachlorocyclopentadiene	6.362	237	162140	51.75	ppm	96
49) 2,4,6-Trichlorophenol	6.543	196	124776	34.30	ppm	97
50) 2,4,5-Trichlorophenol	6.624	196	121555	30.01	ppm	95
52) 2-Chloronaphthalene	6.757	162	343871	30.24	ppm	97
53) Biphenyl	6.741	154	447979	29.54	ppm	97
54) 2-Nitroaniline	6.918	65	121270	28.78	ppm	95
55) Dimethylphthalate	7.148	163	418616	31.43	ppm	99
56) Acenaphthylene	7.276	152	534279	28.15	ppm	97
57) 2,6-Dinitrotoluene	7.233	165	95577	32.05	ppm	90
58) 3-Nitroaniline	7.458	138	77022	23.19	ppm	97
59) Acenaphthene	7.506	153	378550	30.04	ppm	97
60) 2,4-Dinitrophenol	7.624	184	79532	54.51	ppm	86
61) 4-Nitrophenol	7.854	109	69959	32.62	ppm	88
62) Dibenzofuran	7.747	168	496899	29.95	ppm	90
63) 2,4-Dinitrotoluene	7.790	165	121714	29.84	ppm	70
64) 2,3,4,6-Tetrachlorophenol	7.961	232	97598	32.50	ppm	93
65) Diethylphthalate	8.132	149	439470	31.41	ppm	98
66) Fluorene	8.228	166	425075	30.61	ppm	97
67) 4-Chlorophenyl-phenyle...	8.255	204	219236	34.62	ppm	93
68) 4-Nitroaniline	8.319	138	89497	28.03	ppm	92
70) 4,6-Dinitro-2-methylph...	8.373	198	73888	30.49	ppm	92
71) n-Nitrosodiphenylamine	8.442	169	283606	29.63	ppm	94
72) 1,2-Diphenylhydrazine	8.485	77	427911	30.01	ppm	96
74) 4-Bromophenyl-phenylether	8.966	248	139235	33.99	ppm	96
75) Hexachlorobenzene	9.031	284	157212	32.00	ppm	92
76) Pentachlorophenol	9.378	266	53522	22.89	ppm	97
77) Phenanthrene	9.651	178	581774	29.10	ppm	99
78) Anthracene	9.726	178	567798	28.35	ppm	98
79) Carbazole	10.025	167	532027	29.36	ppm	99
80) Di-n-butylphthalate	10.646	149	708166	30.26	ppm	97
81) Fluoranthene	11.502	202	670208	30.91	ppm	97
82) Octadecane	9.576	57	219336	26.94	ppm	92
84) Pyrene	11.849	202	696669m	31.58	ppm	
86) Butylbenzylphthalate	13.015	149	298214	28.34	ppm	96

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83096.D
Acq On : 11 May 2016 12:52 pm
Operator : ashleyn
Sample : op93597-msd
Misc : op93597,e3e3643,30.3
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 09:25:43 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
88) Benzo[a]anthracene	13.769	228	642596	29.83	ppm		98
89) 3,3'-Dichlorobenzidine	13.796	252	416320	51.97	ppm		96
90) Chrysene	13.823	228	594097	29.55	ppm		99
91) bis(2-Ethylhexyl)phtha...	13.978	149	387182	28.59	ppm		98
93) Di-n-octylphthalate	14.968	149	604725	29.17	ppm		99
94) Benzo[b]fluoranthene	15.379	252	575589	31.70	ppm		98
95) Benzo[k]fluoranthene	15.417	252	543232	33.52	ppm		98
96) Benzo[a]pyrene	15.818	252	470712	31.05	ppm		96
97) Indeno[1,2,3-cd]pyrene	17.310	276	414706	28.71	ppm		94
99) Dibenz[a,h]anthracene	17.348	278	413227	28.80	ppm		99
100) 7,12-Dimethylbenz(a)an...	15.369	256	276116	34.11	ppm		98
101) Benzo[g,h,i]perylene	17.695	276	395580	28.43	ppm		98
103) Benzaldehyde	4.099	105	113945	22.99	ppm	#	78
105) 1,2,4,5-Tetrachloroben...	6.383	216	208460	41.97	ppm		99
107) Atrazine	9.293	215	69303	39.52	ppm	#	79
109) benzidine	11.790	184	325546	35.88	ppm		85

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

7.4.4

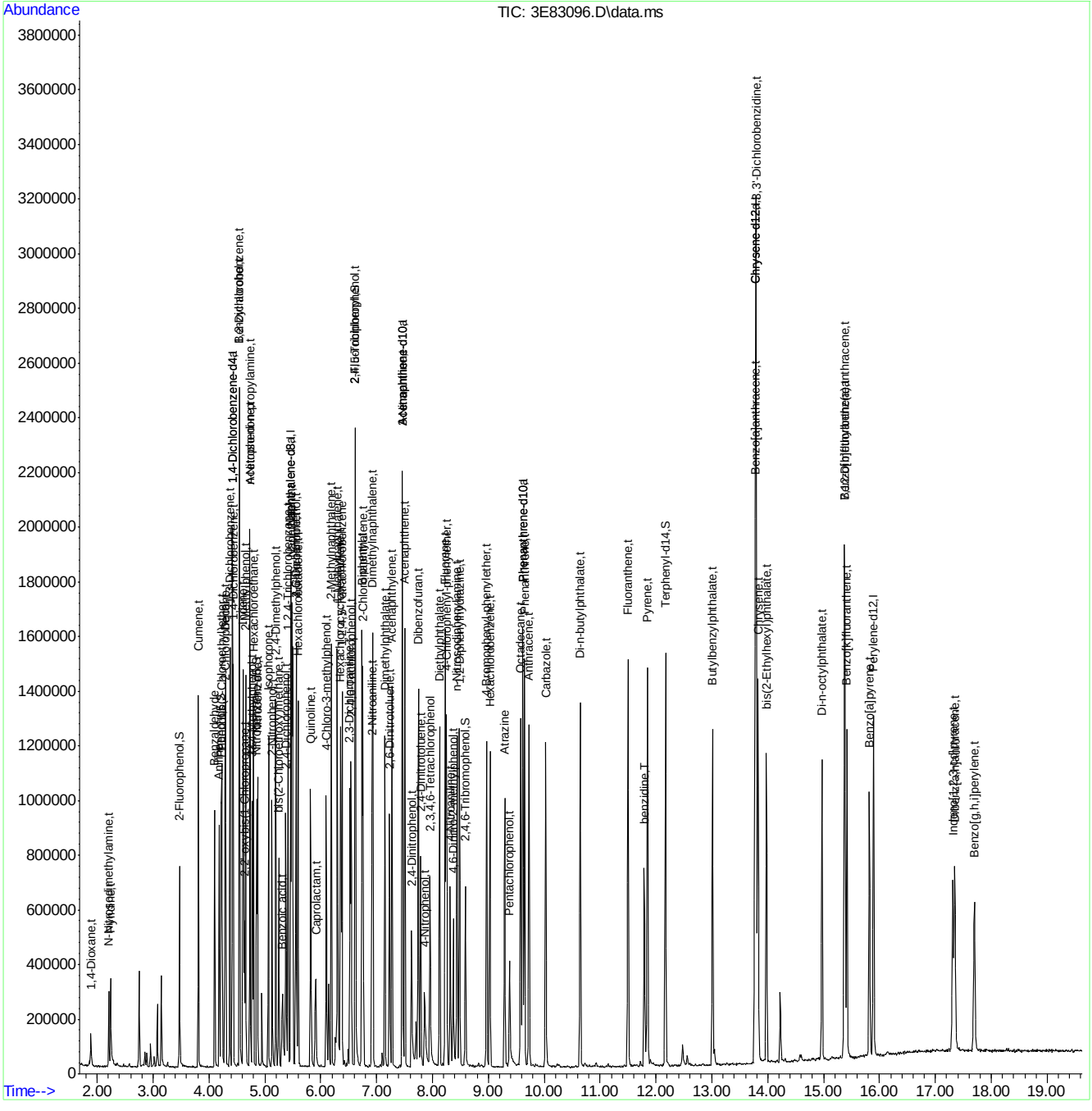
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83096.D
Acq On : 11 May 2016 12:52 pm
Operator : ashleyn
Sample : op93597-msd
Misc : op93597,e3e3643,30.3
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 09:25:43 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

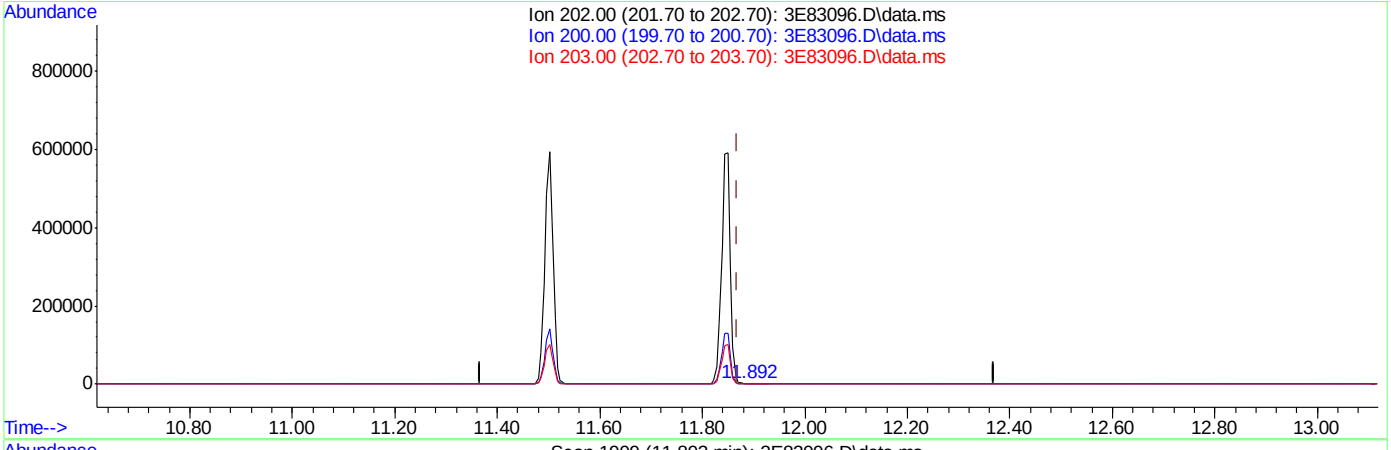
Sample Number:	OP93597-MSD	**Method:**	SW846 8270D
Lab FileID:	3E83096.D	**Analyst approved:**	05/11/16 14:53 Ashley Noble
Injection Time:	05/11/16 12:52	**Supervisor approved:**	05/12/16 08:37 Kristi Schollenberger

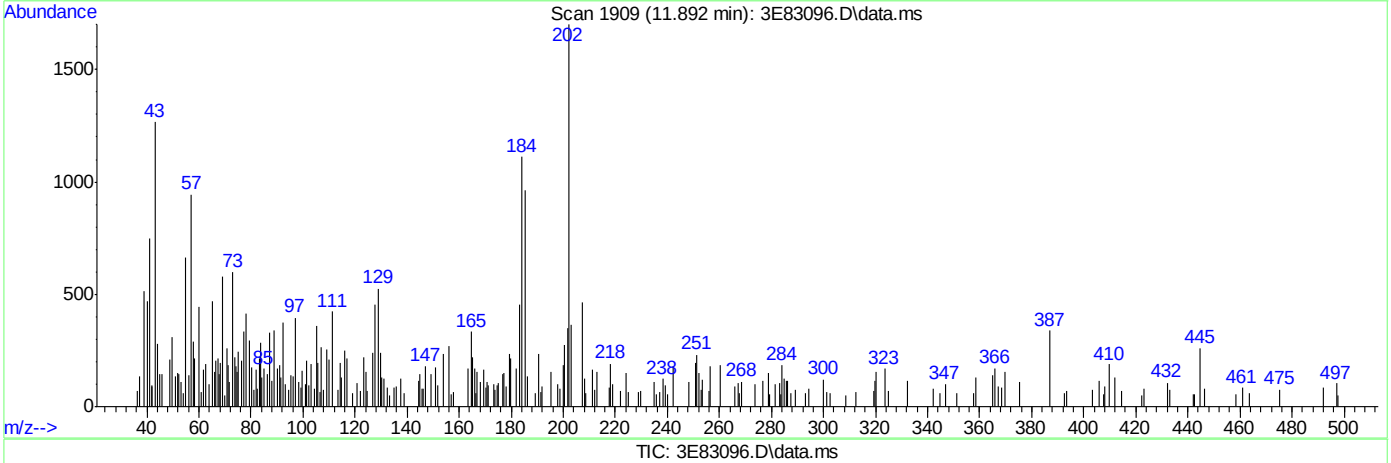
Parameter	CAS	Sig#	R.T. (min.)	Reason
Pyrene	129-00-0		11.85	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83096.D
Acq On : 11 May 2016 12:52 pm
Operator : ashleyn
Sample : op93597-msd
Misc : op93597,e3e3643,30.3
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 14:06:04 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration





TIC: 3E83096.D\data.ms

(84) Pyrene (t)

11.892min (+0.023) 0.07ppm

response 1570

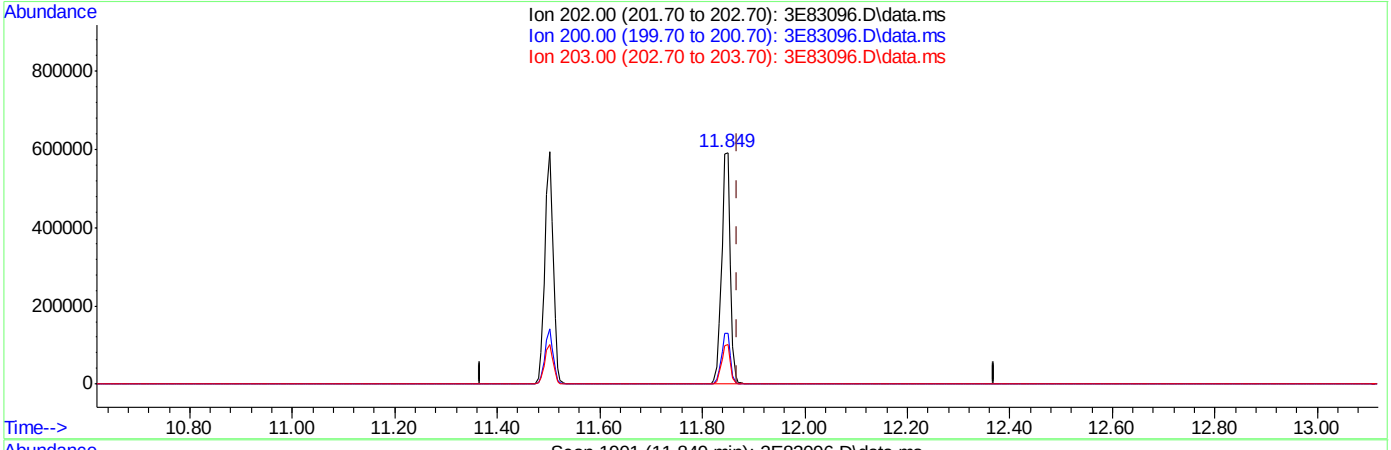
Ion	Exp%	Act%
202.00	100	100
200.00	21.90	7.79
203.00	17.50	7.91
0.00	0.00	0.00

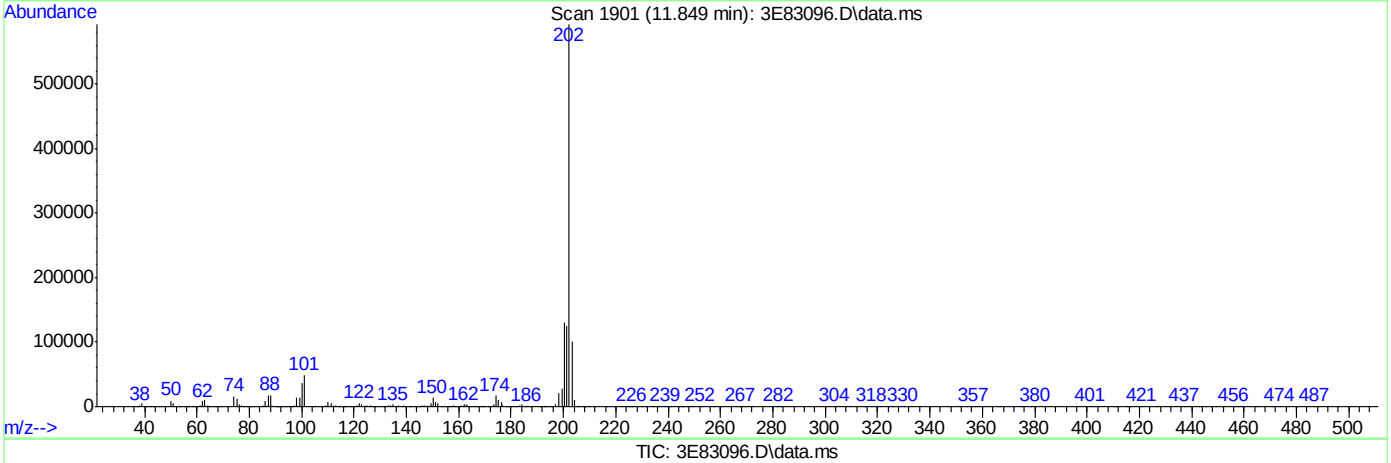
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83096.D
Acq On    : 11 May 2016  12:52 pm
Operator  : ashleyn
Sample    : op93597-msd
Misc      : op93597,e3e3643,30.3
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: May 11 14:06:04 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title  : Semi Volatile  GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 12:33:37 2016
QLast Update : Wed May 11 12:33:37 2016
Response via : Initial Calibration
```





TIC: 3E83096.D\data.ms

(84) Pyrene (t)

11.849min (-0.020) 31.58ppm m

response 696669

Ion	Exp%	Act%
202.00	100	100
200.00	21.90	21.92
203.00	17.50	17.08
0.00	0.00	0.00

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m61013.D
Acq On : 2 May 2016 11:45 pm
Operator : linseyk
Sample : op93534a-ms2
Misc : op93534a,e3m2868,890
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 03 11:07:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	444919	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	580212	4.00	ppm	-0.16
21) Fluoranthene-d10	17.700	212	879854	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.305	264	674245	4.00	ppm	-0.15
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	1394648	25.05	ppm	-0.09
Spiked Amount 50.000			Recovery = 50.10%			
4) Phenol-d5	6.012	99	1551946	16.85	ppm	-0.08
Spiked Amount 50.000			Recovery = 33.70%			
7) Nitrobenzene-d5	7.606	82	3032622	35.41	ppm	-0.11
Spiked Amount 50.000			Recovery = 70.82%			
15) 2-Fluorobiphenyl	11.160	172	6218616	39.00	ppm	-0.14
Spiked Amount 50.000			Recovery = 78.00%			
20) 2,4,6-Tribromophenol	14.033	330	734026	40.42	ppm	-0.14
Spiked Amount 50.000			Recovery = 80.84%			
28) Terphenyl-d14	18.519	244	5734127	44.93	ppm	-0.14
Spiked Amount 50.000			Recovery = 89.86%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	222819	9.69	ppm #	1
5) Phenol	6.024	94	224351	2.26	ppm #	92
6) bis(2-Chloroethyl)ether	6.157	93	51178	0.68	ppm	82
8) Nitrobenzene	7.625	77	68640	0.74	ppm #	61
9) Naphthalene	8.999	128	166308	0.67	ppm	99
10) Hexachlorobutadiene	9.282	225	32171	0.75	ppm	92
11) 2-Methylnaphthalene	10.365	141	108139	0.84	ppm #	71
13) Hexachlorocyclopentadiene	10.714	237	17011	0.50	ppm #	76
16) Acenaphthylene	12.134	152	166110	0.83	ppm	88
17) Acenaphthene	12.505	153	113499	0.85	ppm	91
18) 4,6-dinitro-2-methylph...	13.712	198	95665	5.05	ppm	91
19) Fluorene	13.543	166	135576	0.84	ppm	82
22) Hexachlorobenzene	14.624	284	35842	0.86	ppm	83
23) Pentachlorophenol	15.057	266	145158	5.05	ppm	98
24) Phenanthrene	15.444	178	189167	0.88	ppm #	57
25) Anthracene	15.552	178	175329	0.92	ppm	95
26) Fluoranthene	17.731	202	211260	0.78	ppm	98
27) Pyrene	18.118	202	217202	0.86	ppm	100
29) Benzo[a]anthracene	20.204	228	159284	0.66	ppm	97
30) Chrysene	20.265	228	165281	0.71	ppm	96
32) Benzo[b]fluoranthene	21.872	252	109191	0.49	ppm	97
33) Benzo[k]fluoranthene	21.919	252	122832	0.59	ppm	98
34) Benzo[a]pyrene	22.320	252	92913	0.44	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.806	276	55833	0.26	ppm	92
36) Dibenz[a,h]anthracene	23.843	278	51749	0.30	ppm	100
37) Benzo[g,h,i]perylene	24.163	276	44870	0.24	ppm	99

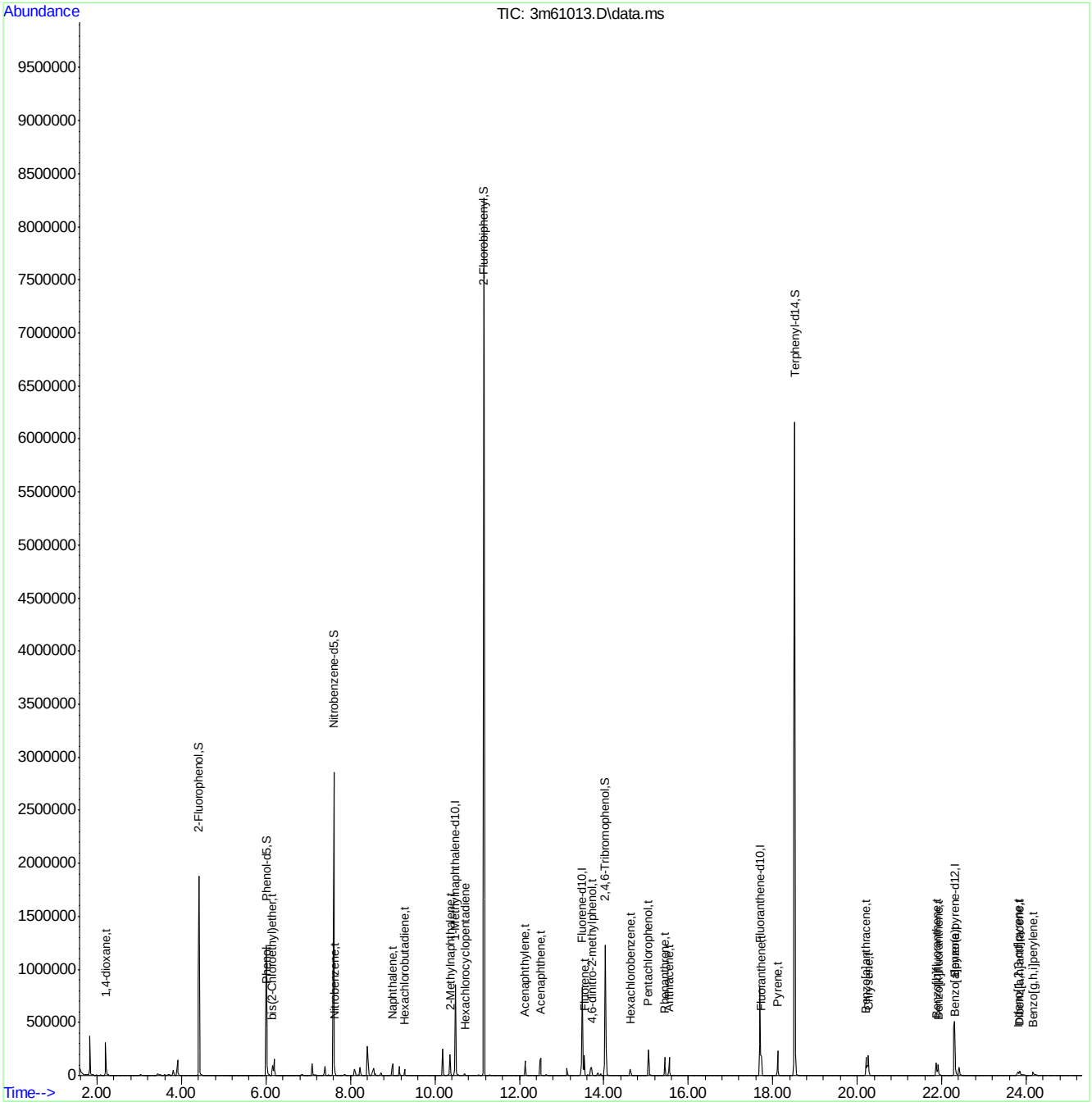
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m61013.D
Acq On : 2 May 2016 11:45 pm
Operator : linseyk
Sample : op93534a-ms2
Misc : op93534a,e3m2868,890
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 03 11:07:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m61014.D
Acq On : 3 May 2016 12:17 am
Operator : linseyk
Sample : op93534a-msd2
Misc : op93534a,e3m2868,890
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 03 11:08:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.488	150	421814	4.00 ppm	-0.13
14) Fluorene-d10	13.486	176	574598	4.00 ppm	-0.16
21) Fluoranthene-d10	17.700	212	861387	4.00 ppm	-0.16
31) Benzo(a)pyrene-d12	22.305	264	661514	4.00 ppm	-0.15
System Monitoring Compounds					
3) 2-Fluorophenol	4.415	112	1534053	29.07 ppm	-0.09
Spiked Amount 50.000			Recovery	= 58.14%	
4) Phenol-d5	6.012	99	1743608	19.97 ppm	-0.08
Spiked Amount 50.000			Recovery	= 39.94%	
7) Nitrobenzene-d5	7.606	82	3760660	46.32 ppm	-0.11
Spiked Amount 50.000			Recovery	= 92.64%	
15) 2-Fluorobiphenyl	11.160	172	7122225	45.11 ppm	-0.14
Spiked Amount 50.000			Recovery	= 90.22%	
20) 2,4,6-Tribromophenol	14.033	330	819793	45.59 ppm	-0.14
Spiked Amount 50.000			Recovery	= 91.18%	
28) Terphenyl-d14	18.519	244	5744304	45.97 ppm	-0.14
Spiked Amount 50.000			Recovery	= 91.94%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.220	88	216595	9.94 ppm	81
5) Phenol	6.024	94	242117	2.57 ppm #	83
6) bis(2-Chloroethyl)ether	6.157	93	60077	0.84 ppm	85
8) Nitrobenzene	7.625	77	83730	0.95 ppm #	54
9) Naphthalene	8.999	128	202660	0.86 ppm	100
10) Hexachlorobutadiene	9.282	225	38994	0.95 ppm	93
11) 2-Methylnaphthalene	10.365	141	127808	1.05 ppm #	72
13) Hexachlorocyclopentadiene	10.714	237	20450	0.63 ppm #	77
16) Acenaphthylene	12.134	152	191623	0.96 ppm	88
17) Acenaphthene	12.505	153	132032	0.99 ppm	90
18) 4,6-dinitro-2-methylph...	13.712	198	116559	6.01 ppm	91
19) Fluorene	13.543	166	165325	1.04 ppm	81
22) Hexachlorobenzene	14.624	284	42092	1.03 ppm	83
23) Pentachlorophenol	15.057	266	166894	5.90 ppm	100
24) Phenanthrene	15.444	178	227060	1.08 ppm #	57
25) Anthracene	15.552	178	211512	1.14 ppm	94
26) Fluoranthene	17.731	202	244937	0.92 ppm	98
27) Pyrene	18.118	202	258143	1.05 ppm	99
29) Benzo[a]anthracene	20.204	228	175842	0.74 ppm	97
30) Chrysene	20.265	228	183947	0.81 ppm	98
32) Benzo[b]fluoranthene	21.872	252	120414	0.55 ppm	97
33) Benzo[k]fluoranthene	21.919	252	133535	0.66 ppm	98
34) Benzo[a]pyrene	22.320	252	107370	0.52 ppm	99
35) Indeno[1,2,3-cd]pyrene	23.806	276	76134	0.37 ppm	93
36) Dibenz[a,h]anthracene	23.843	278	67057	0.39 ppm	100
37) Benzo[g,h,i]perylene	24.163	276	63250	0.35 ppm	98

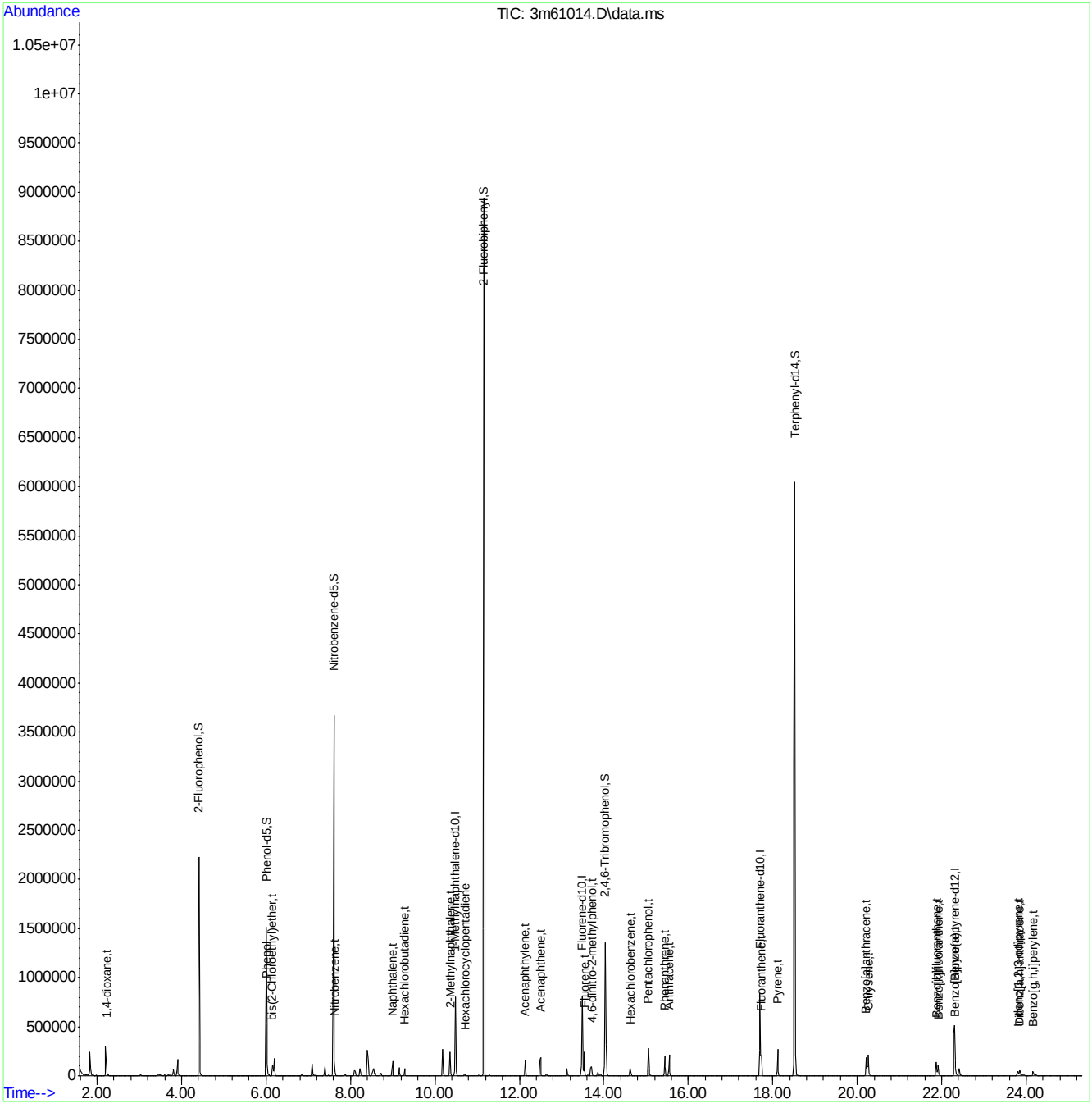
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m61014.D
Acq On : 3 May 2016 12:17 am
Operator : linseyk
Sample : op93534a-msd2
Misc : op93534a,e3m2868,890
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 03 11:08:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61097.D
Acq On : 5 May 2016 3:37 pm
Operator : linseyk
Sample : op93597a-ms
Misc : op93597a,e3m2872,30.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 05 17:40:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:37:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.468	150	305654	4.00	ppm	-0.15
14) Fluorene-d10	13.449	176	441284	4.00	ppm	-0.20
21) Fluoranthene-d10	17.670	212	747248	4.00	ppm	-0.19
31) Benzo(a)pyrene-d12	22.274	264	574919	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.399	112	1742691	45.57	ppm	-0.11
Spiked Amount 50.000			Recovery = 91.14%			
4) Phenol-d5	6.000	99	2837286	44.84	ppm	-0.09
Spiked Amount 50.000			Recovery = 89.68%			
7) Nitrobenzene-d5	7.568	82	2363299	40.17	ppm	-0.14
Spiked Amount 50.000			Recovery = 80.34%			
15) 2-Fluorobiphenyl	11.130	172	5756393	47.47	ppm	-0.17
Spiked Amount 50.000			Recovery = 94.94%			
20) 2,4,6-Tribromophenol	14.014	330	638495	46.23	ppm	-0.16
Spiked Amount 50.000			Recovery = 92.46%			
28) Terphenyl-d14	18.489	244	5370760	49.55	ppm	-0.17
Spiked Amount 50.000			Recovery = 99.10%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	8121	0.51	ppm	# 40
5) Phenol	6.012	94	338559	4.96	ppm	# 78
6) bis(2-Chloroethyl)ether	6.133	93	45447	0.88	ppm	81
8) Nitrobenzene	7.606	77	52523	0.82	ppm	94
9) Naphthalene	8.962	128	172289	1.01	ppm	97
10) Hexachlorobutadiene	9.244	225	26937	0.91	ppm	90
13) Hexachlorocyclopentadiene	10.673	237	14904	0.63	ppm	94
16) Acenaphthylene	12.103	152	152229	1.00	ppm	88
17) Acenaphthene	12.459	153	102661	1.01	ppm	77
18) 4,6-dinitro-2-methylph...	13.675	198	53258	3.91	ppm	# 1
19) Fluorene	13.505	166	128513	1.05	ppm	92
22) Hexachlorobenzene	14.594	284	34073	0.96	ppm	86
23) Pentachlorophenol	15.027	266	107867	4.44	ppm	91
24) Phenanthrene	15.413	178	173785	0.95	ppm	91
25) Anthracene	15.521	178	170051	1.05	ppm	95
26) Fluoranthene	17.701	202	200970	0.87	ppm	99
27) Pyrene	18.087	202	206597	0.97	ppm	97
29) Benzo[a]anthracene	20.173	228	176595	0.86	ppm	92
30) Chrysene	20.235	228	182538	0.93	ppm	94
32) Benzo[b]fluoranthene	21.841	252	188733	0.99	ppm	98
33) Benzo[k]fluoranthene	21.888	252	146676	0.83	ppm	98
34) Benzo[a]pyrene	22.305	252	156223	0.88	ppm	88
35) Indeno[1,2,3-cd]pyrene	23.768	276	182267	1.01	ppm	97
36) Dibenz[a,h]anthracene	23.806	278	126943	0.85	ppm	69
37) Benzo[g,h,i]perylene	24.144	276	149498	0.95	ppm	94

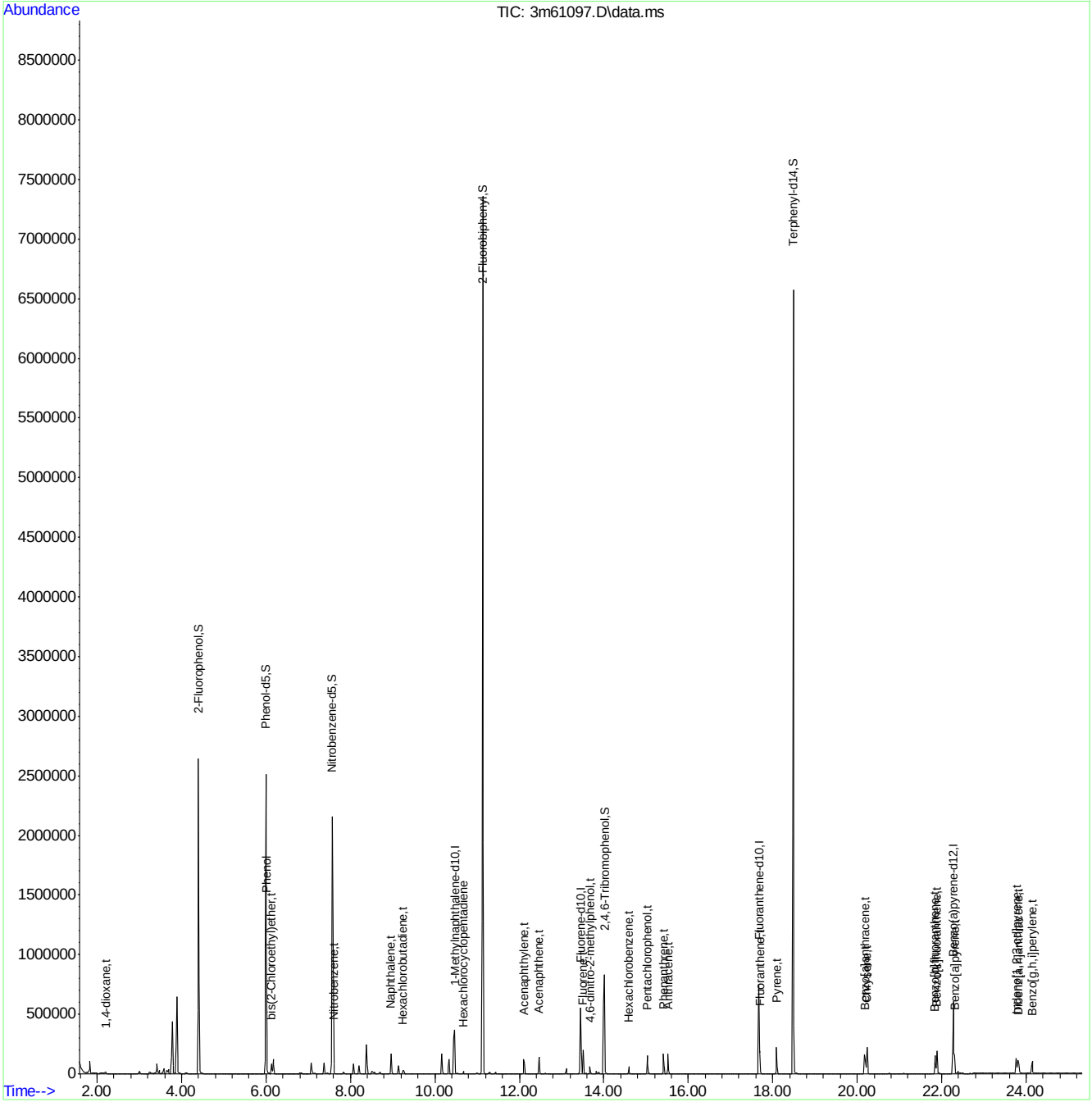
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61097.D
Acq On : 5 May 2016 3:37 pm
Operator : linseyk
Sample : op93597a-ms
Misc : op93597a,e3m2872,30.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 05 17:40:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:37:59 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61098.D
Acq On : 5 May 2016 4:10 pm
Operator : linseyk
Sample : op93597a-msd
Misc : op93597a,e3m2872,32.8
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 05 17:42:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:37:59 2016
Response via : Initial Calibration

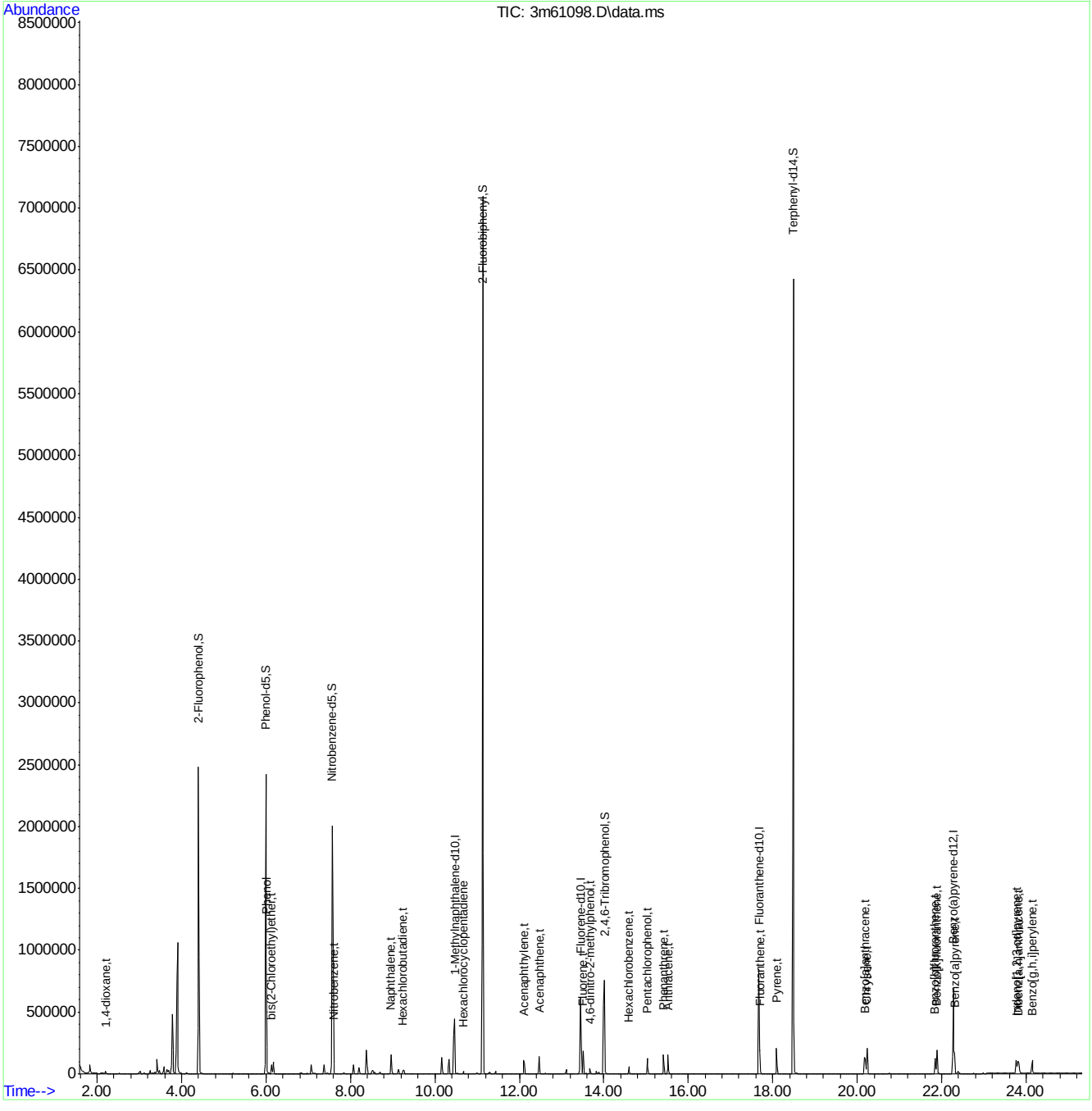
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.467	150	347222	4.00	ppm		-0.15
14) Fluorene-d10	13.449	176	499183	4.00	ppm		-0.20
21) Fluoranthene-d10	17.670	212	819517	4.00	ppm		-0.19
31) Benzo(a)pyrene-d12	22.274	264	629953	4.00	ppm		-0.02
System Monitoring Compounds							
3) 2-Fluorophenol	4.399	112	1669978	38.44	ppm		-0.11
Spiked Amount 50.000				Recovery = 76.88%			
4) Phenol-d5	6.000	99	2687198	37.39	ppm		-0.09
Spiked Amount 50.000				Recovery = 74.78%			
7) Nitrobenzene-d5	7.568	82	2204492	32.98	ppm		-0.14
Spiked Amount 50.000				Recovery = 65.96%			
15) 2-Fluorobiphenyl	11.129	172	5373652	39.18	ppm		-0.17
Spiked Amount 50.000				Recovery = 78.36%			
20) 2,4,6-Tribromophenol	14.014	330	596743	38.20	ppm		-0.16
Spiked Amount 50.000				Recovery = 76.40%			
28) Terphenyl-d14	18.488	244	5168748	43.48	ppm		-0.18
Spiked Amount 50.000				Recovery = 86.96%			
Target Compounds							Qvalue
2) 1,4-dioxane	2.205	88	9202	0.51	ppm		86
5) Phenol	6.012	94	276454	3.57	ppm	#	85
6) bis(2-Chloroethyl)ether	6.133	93	43791	0.75	ppm		90
8) Nitrobenzene	7.606	77	51736	0.71	ppm		92
9) Naphthalene	8.962	128	159665	0.83	ppm		98
10) Hexachlorobutadiene	9.244	225	25420	0.76	ppm		88
13) Hexachlorocyclopentadiene	10.673	237	15045	0.56	ppm		96
16) Acenaphthylene	12.103	152	141210	0.82	ppm		88
17) Acenaphthene	12.474	153	98237	0.85	ppm		89
18) 4,6-dinitro-2-methylph...	13.675	198	35828	2.61	ppm	#	1
19) Fluorene	13.505	166	120947	0.87	ppm		95
22) Hexachlorobenzene	14.594	284	32110	0.83	ppm		86
23) Pentachlorophenol	15.026	266	84720	3.23	ppm		90
24) Phenanthrene	15.413	178	165021	0.82	ppm		91
25) Anthracene	15.521	178	153623	0.87	ppm		95
26) Fluoranthene	17.700	202	196543	0.78	ppm		99
27) Pyrene	18.087	202	200734	0.86	ppm		97
29) Benzo[a]anthracene	20.173	228	164539	0.73	ppm		90
30) Chrysene	20.234	228	171049	0.79	ppm		97
32) Benzo[b]fluoranthene	21.841	252	170168	0.81	ppm		99
33) Benzo[k]fluoranthene	21.888	252	151158	0.78	ppm		98
34) Benzo[a]pyrene	22.305	252	152146	0.78	ppm		89
35) Indeno[1,2,3-cd]pyrene	23.768	276	170861	0.86	ppm		96
36) Dibenz[a,h]anthracene	23.806	278	137214	0.84	ppm		69
37) Benzo[g,h,i]perylene	24.144	276	149057	0.86	ppm		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61098.D
Acq On : 5 May 2016 4:10 pm
Operator : linseyk
Sample : op93597a-msd
Misc : op93597a,e3m2872,32.8
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 05 17:42:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:37:59 2016
Response via : Initial Calibration



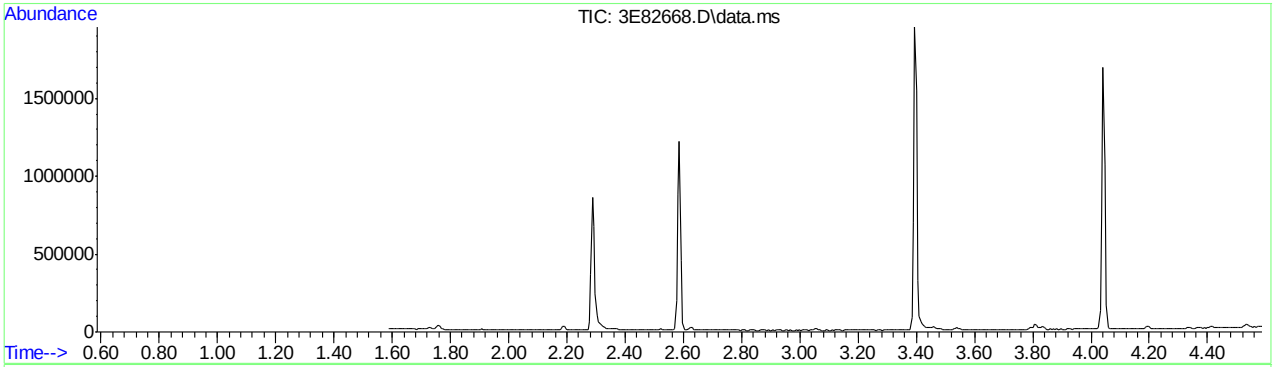
SGS ACCUTEST JC19423

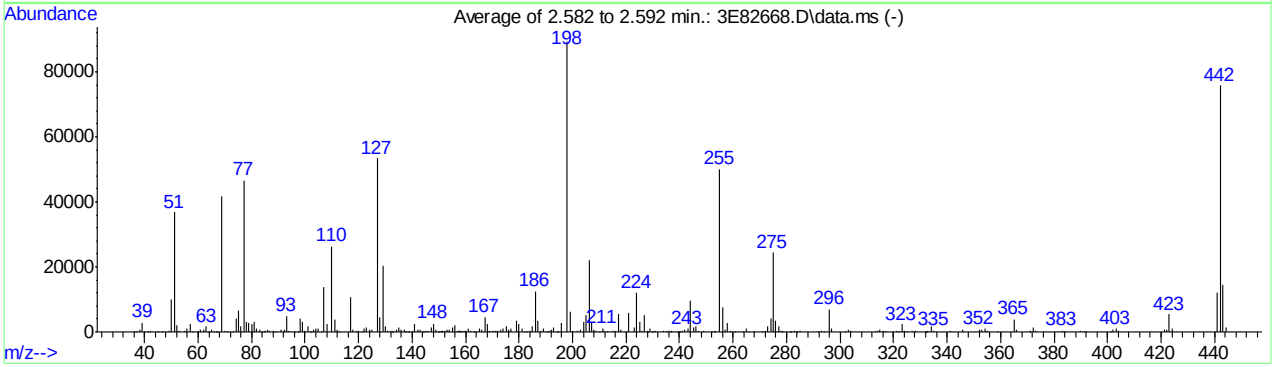
DFTPP

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82668.D
Acq On : 26 Apr 2016 1:15 pm
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3621
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp3e.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
Last Update : Sat Aug 08 13:07:52 2015





AutoFind: Scans 187, 188, 189; Background Corrected with Scan 182

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.3	36856	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.6	41596	PASS
70	69	0.00	2	1.1	473	PASS
127	198	40	60	59.7	53290	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	89282	PASS
199	198	5	9	7.0	6277	PASS
275	198	10	30	27.4	24445	PASS
365	198	1	100	4.3	3823	PASS
441	443	0.10	100	81.7	11945	PASS
442	198	40	100	84.9	75784	PASS
443	442	17	23	19.3	14615	PASS

SGS ACCUTEST JC19423

Average of 2.582 to 2.592 min.: 3E82668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	178	51.05	36856	63.90	95	75.00	6415
37.00	132	52.10	2026	64.10	103	76.10	1581
38.05	617	53.00	239	65.05	861	77.10	46564
39.10	2883	55.00	194	66.00	68	78.05	3075
39.95	132	56.00	1123	66.90	94	79.00	2747
41.00	92	57.10	2357	67.10	118	80.00	2453
41.95	28	57.95	149	69.00	41596	81.00	3116
44.80	79	60.05	228	70.00	473	82.00	926
46.80	97	61.05	553	70.95	12	83.05	852
49.05	258	62.05	643	72.95	46	84.00	14
50.10	10040	63.10	1707	74.10	4084	84.80	126

Average of 2.582 to 2.592 min.: 3E82668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.05	500	98.05	4042	108.00	2319	123.00	1496
85.95	849	99.05	3181	110.05	26216	123.95	633
87.00	437	99.95	331	111.00	3957	125.00	618
88.00	281	101.00	1840	111.95	529	127.05	53290
88.80	64	102.00	104	112.95	180	128.10	4613
91.00	776	102.20	51	117.05	10703	129.00	20430
92.10	832	103.00	777	118.05	804	130.00	1785
92.95	4905	104.00	1188	118.95	149	131.00	300
94.00	436	105.00	1024	120.05	310	131.95	292
96.00	147	106.00	81	121.10	51	132.60	96
97.10	147	107.00	13899	122.00	1171	132.90	84

Average of 2.582 to 2.592 min.: 3E82668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.00	692	143.80	59	151.55	241	158.95	388
135.00	1479	144.20	125	152.05	267	159.90	230
136.05	561	145.05	200	153.00	809	160.10	501
137.10	853	146.00	443	154.05	648	161.00	1044
137.70	73	147.05	1346	155.00	1325	162.00	387
138.25	168	148.00	2595	156.10	1957	163.05	167
138.90	146	149.05	683	156.90	85	164.00	57
140.10	122	149.80	53	157.15	470	165.00	1119
141.00	2557	150.00	130	157.70	185	166.05	775
142.00	855	150.80	63	157.90	302	167.10	4615
143.00	624	151.10	345	158.10	92	168.00	2256

Average of 2.582 to 2.592 min.: 3E82668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.00	511	180.00	2385	190.80	87	201.50	439
170.10	192	181.00	1004	191.05	322	203.05	740
171.05	196	181.95	158	191.90	809	204.10	3111
171.90	346	182.95	134	192.20	199	205.05	5276
172.10	68	183.90	249	193.00	1233	206.10	22056
173.00	538	185.05	1798	193.95	182	207.00	2697
174.00	893	186.00	12561	194.70	79	208.00	743
175.10	1737	187.00	3562	196.00	2936	208.95	314
176.05	598	188.05	497	198.00	89282	209.90	153
177.05	1080	189.00	915	199.00	6277	211.10	1100
179.00	3512	190.00	74	199.95	517	211.80	191

Average of 2.582 to 2.592 min.: 3E82668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.00	67	227.00	5176	237.00	228	249.00	376
215.00	213	227.95	514	239.10	83	251.90	91
215.95	352	228.20	103	239.70	54	253.05	340
217.00	5504	229.00	1175	240.10	51	253.30	78

dftpp3e.M Wed Apr 27 13:53:22 2016 MS3E Page: 2

217.95	826	229.80	87	240.95	360	255.00	50144
220.20	119	230.10	51	242.00	812	256.05	7597
221.00	5713	231.00	410	243.10	927	257.10	646
223.10	1444	233.95	320	244.10	9833	258.00	2780
224.05	12024	235.00	426	245.10	1367	259.05	424
225.05	2985	236.00	198	246.00	1793	260.90	67
226.00	196	236.80	175	246.95	412	263.75	181

Average of 2.582 to 2.592 min.: 3E82668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
265.00	1168	278.20	77	297.00	920	323.10	2337
265.80	23	281.10	61	302.00	90	324.05	375
267.85	136	281.90	50	303.10	803	324.90	58
270.80	50	282.95	235	304.00	193	327.00	425
272.05	262	283.80	65	313.10	52	328.05	247
273.05	1654	284.00	91	314.05	384	331.80	54
274.10	4139	285.10	377	315.00	697	332.10	93
275.00	24445	291.90	105	316.05	481	332.40	73
276.05	3307	293.10	476	317.10	50	333.00	219
277.00	1785	293.95	154	321.10	214	334.10	1669
277.90	283	296.00	7027	322.00	82	335.05	409

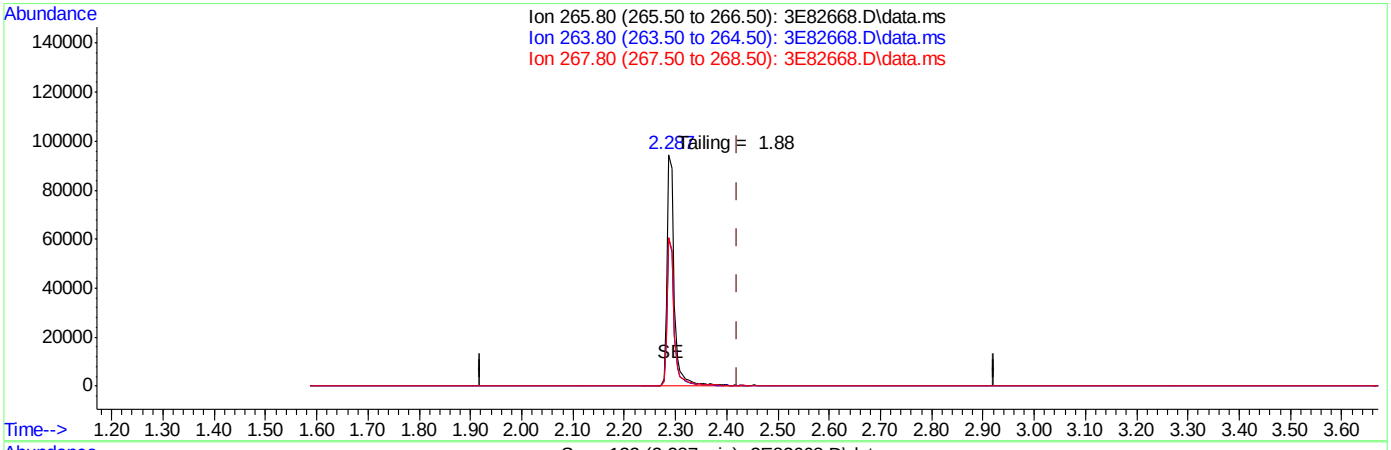
Average of 2.582 to 2.592 min.: 3E82668.D\data.ms
dftpp
Modified:subtracted

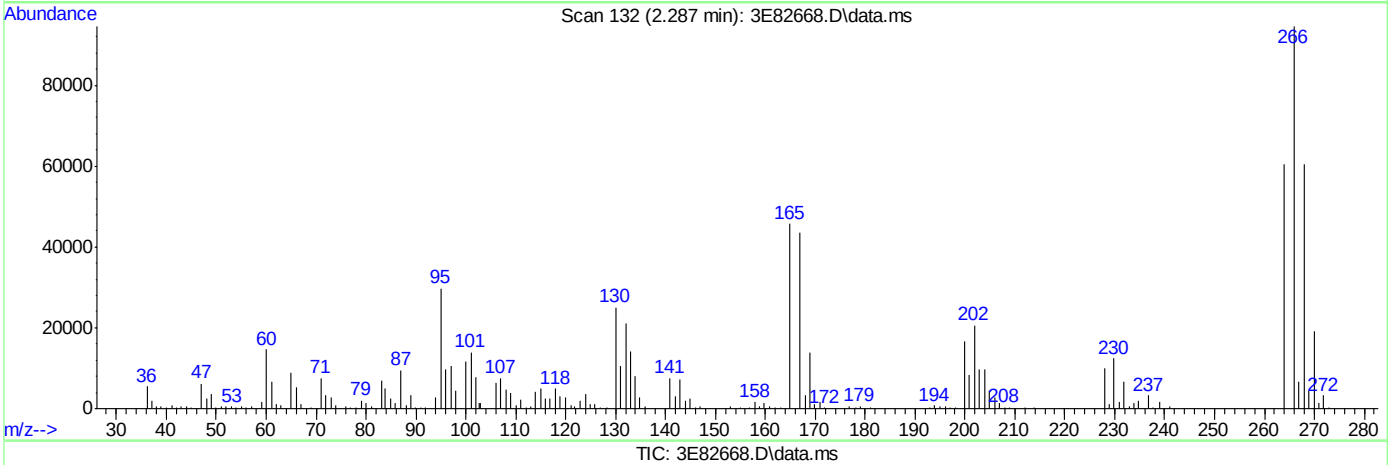
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.05	307	372.05	1521	421.10	837		
346.00	551	373.10	351	422.05	810		
352.10	859	382.95	364	423.10	5503		
353.05	597	384.10	115	424.05	1177		
354.05	947	390.05	232	441.15	11945		
355.10	201	391.10	53	442.10	75784		
359.00	52	392.00	56	443.10	14615		
365.05	3823	401.10	69	444.15	1316		
366.05	627	402.05	650				
370.90	61	403.05	937				
371.15	251	404.05	315				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82668.D
Acq On : 26 Apr 2016 1:15 pm
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3621
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 13:29:05 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.287min (-0.134) 59.91ppb

response 93631

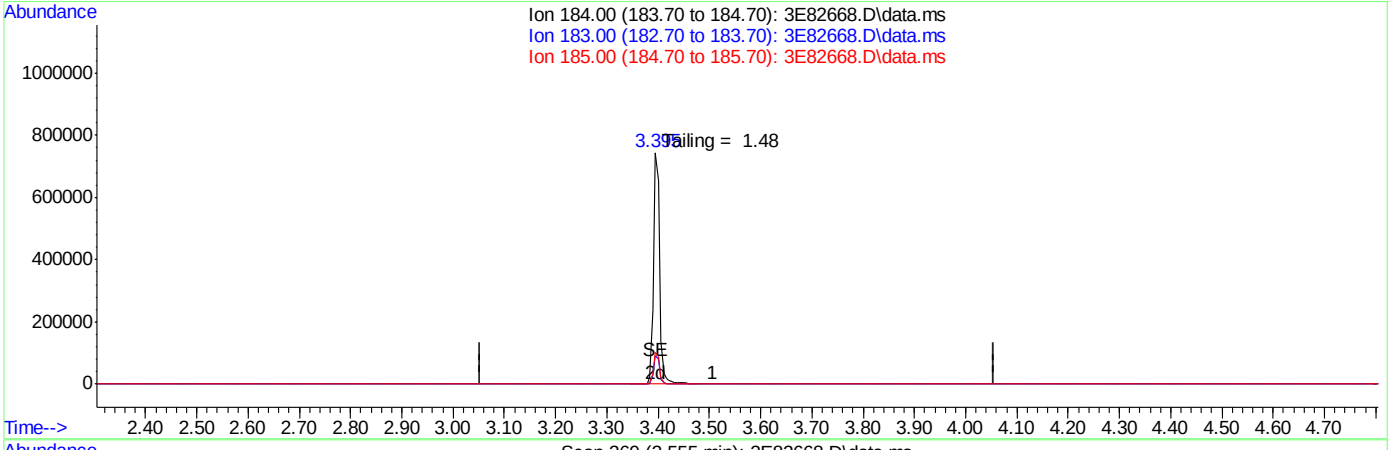
Ion	Exp%	Act%
265.80	100	100
263.80	62.20	63.87
267.80	64.70	63.95
0.00	0.00	0.00

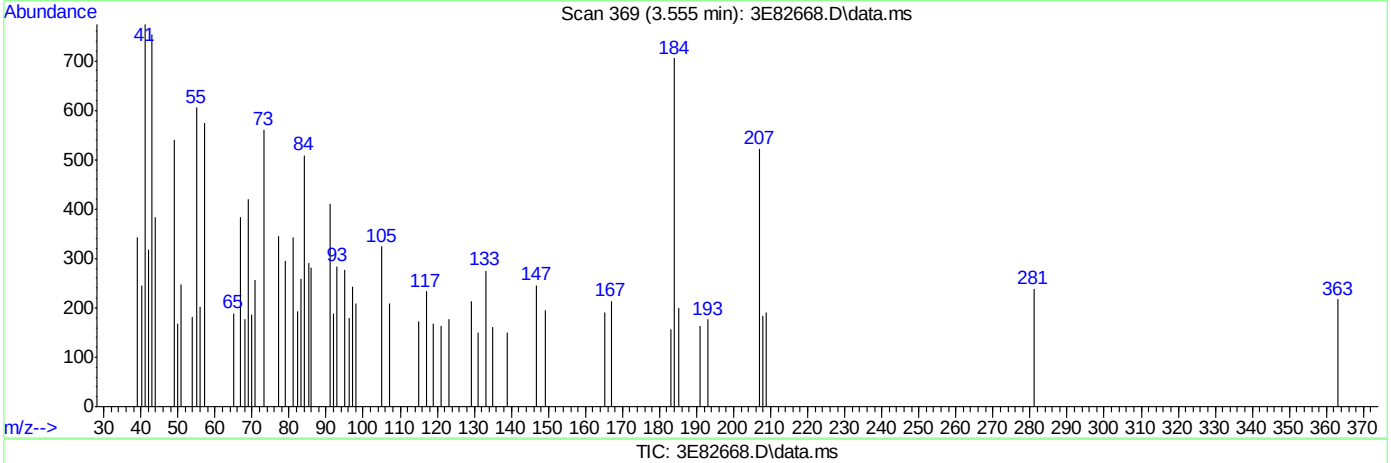
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82668.D
Acq On : 26 Apr 2016 1:15 pm
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3621
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 13:29:05 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E82668.D\data.ms

(2) Benzidine (t)

3.555min 0.00ppb d

response 0

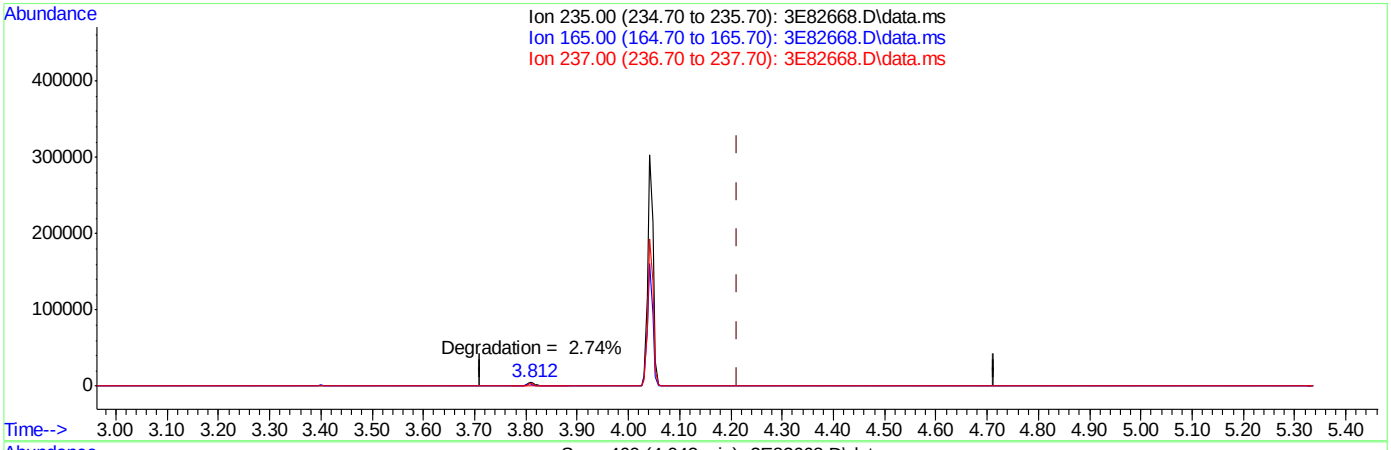
Ion	Exp%	Act%
184.00	100	0.00
183.00	13.20	0.00
185.00	15.40	0.00
0.00	0.00	0.00

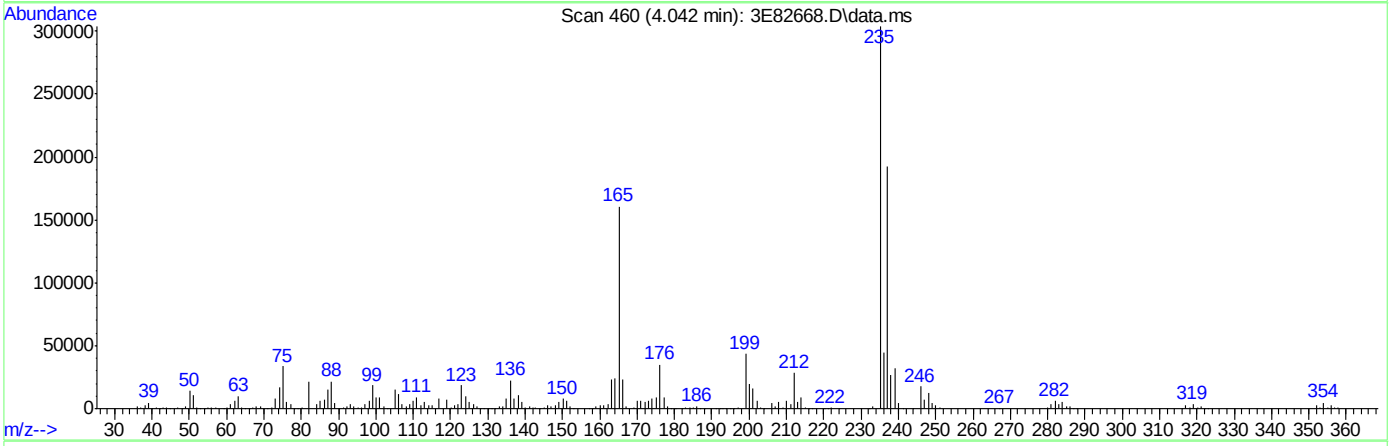
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82668.D
Acq On : 26 Apr 2016 1:15 pm
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3621
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 13:29:05 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E82668.D\data.ms

(3) PP-DDT (t)

4.042min (-0.171) 53.13ppb

response 220559

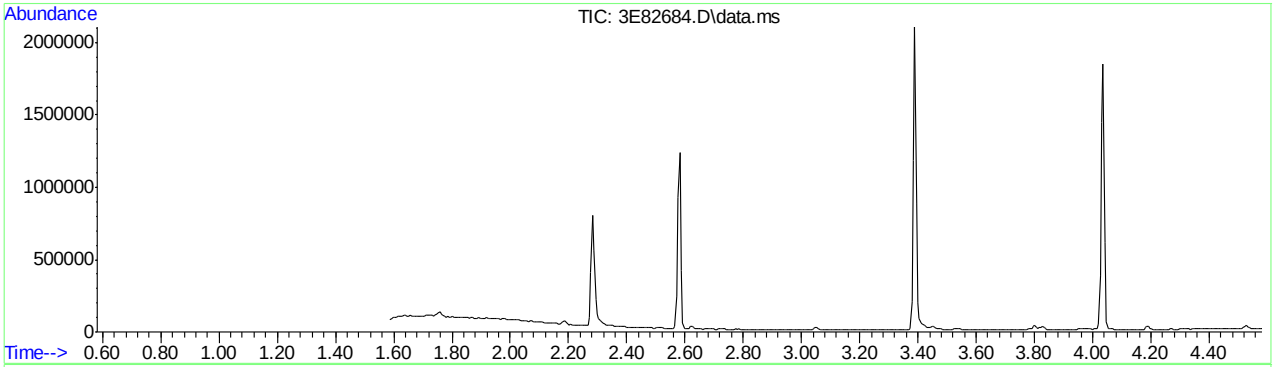
Ion	Exp%	Act%
235.00	100	100
165.00	0.10	51.65#
237.00	0.10	63.60#
0.00	0.00	0.00

DFTPP

Data Path : C:\msdchem\1\DATA\E3E3622\
Data File : 3E82684.D
Acq On : 27 Apr 2016 9:39 am
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3622
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp3e.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
Last Update : Sat Aug 08 13:07:52 2015



AutoFind: Scans 186, 187, 188; Background Corrected with Scan 181

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.6	35061	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	40730	PASS
70	69	0.00	2	0.9	367	PASS
127	198	40	60	59.1	55168	PASS
197	198	0.00	1	0.1	108	PASS
198	198	100	100	100.0	93304	PASS
199	198	5	9	6.9	6394	PASS
275	198	10	30	26.4	24591	PASS
365	198	1	100	4.0	3692	PASS
441	443	0.10	100	76.4	8486	PASS
442	198	40	100	60.8	56685	PASS
443	442	17	23	19.6	11103	PASS

SGS ACCUTEST JC19423

Average of 2.576 to 2.587 min.: 3E82684.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	194	54.05	108	66.00	126	80.00	2405
38.05	552	55.00	73	67.05	56	81.00	3429
39.05	2396	56.00	1130	69.00	40730	82.00	748
40.00	114	57.00	2481	70.05	367	83.00	816
44.95	180	58.05	146	73.00	365	83.95	95
46.95	217	59.70	53	74.00	4356	85.00	401
49.00	186	61.00	393	75.00	6519	85.95	905
50.10	9622	61.95	619	76.05	2326	87.05	374
51.05	35061	63.00	1573	77.10	45956	87.90	181
52.05	2023	64.00	240	78.10	2876	88.90	68
52.95	85	65.00	678	79.00	2997	91.00	714

Average of 2.576 to 2.587 min.: 3E82684.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	1036	103.00	721	117.00	11840	129.00	21407
93.00	5048	104.00	1359	118.00	734	130.00	1996
93.95	155	105.00	1178	118.95	128	131.00	270
95.05	75	107.00	14170	119.95	77	131.80	95
95.95	44	108.00	2587	121.05	101	133.00	172
96.15	248	110.00	27420	122.00	1115	134.00	779
98.00	4270	111.00	3975	123.00	1360	135.05	1451
99.00	3229	112.00	682	123.95	560	136.00	788
99.90	265	112.90	5	125.00	637	137.05	957
101.00	1910	115.00	170	127.00	55168	138.15	322
102.00	76	116.05	1073	128.00	3895	139.00	264

Average of 2.576 to 2.587 min.: 3E82684.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
141.05	2708	151.00	441	161.00	1094	171.10	264
141.95	783	152.05	424	161.85	374	171.95	548
143.00	674	152.90	777	163.05	156	173.00	736
144.95	77	154.05	739	163.90	61	174.05	1204
146.00	466	155.00	1816	164.10	90	175.10	2095
146.20	87	156.00	2533	164.95	945	176.05	691
147.00	1447	156.80	86	166.00	780	177.00	905
148.05	2858	157.10	588	167.00	5321	178.10	187
148.95	512	158.05	482	168.00	2509	179.00	4034
149.80	92	159.00	468	168.95	484	180.00	2534
150.05	180	160.00	857	170.00	283	181.00	1169

Average of 2.576 to 2.587 min.: 3E82684.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
181.90	107	192.00	968	203.00	820	214.95	323
182.20	68	193.05	1222	204.10	3706	216.00	186
182.95	186	193.90	273	205.10	6107	216.20	133
183.95	396	194.90	79	206.10	23752	217.00	6300
185.05	1712	195.10	190	207.05	2983	218.05	849
186.10	13405	196.00	2946	208.00	750	219.00	66
187.10	3970	196.70	108	209.10	121	220.10	94
188.10	576	198.00	93304	210.10	444	221.10	4309
189.00	1018	199.00	6394	211.05	900	222.10	160
189.85	153	200.00	514	211.90	63	223.00	1450
190.95	307	201.50	589	214.20	60	224.10	13314

Average of 2.576 to 2.587 min.: 3E82684.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.10	3219	235.90	62	247.00	411	256.05	7429
226.00	336	236.10	187	248.10	59	257.05	616
227.00	5680	236.95	461	248.75	125	258.00	3237
228.05	717	238.95	271	249.05	257	259.00	517

dftpp3e.M Wed Apr 27 12:11:56 2016 MS3E Page: 2

229.00	1232	240.00	186	249.90	66	263.95	232
229.95	216	240.95	238	250.90	62	265.00	1440
231.00	543	241.95	736	251.10	60	265.85	134
232.00	178	243.05	543	252.10	106	267.30	59
232.80	63	244.10	9828	252.90	97	270.90	81
234.10	345	245.05	1311	253.05	239	272.00	129
235.00	501	246.05	2095	255.10	51680	273.05	1654

Average of 2.576 to 2.587 min.: 3E82684.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
274.05	4481	289.80	50	309.00	57	327.85	253
275.10	24591	292.00	60	310.00	53	332.10	119
276.10	3070	293.05	577	314.10	412	333.10	290
277.00	2350	294.20	67	315.00	880	334.10	1605
278.05	404	296.10	7560	316.05	509	335.05	411
281.05	123	297.00	1087	317.05	110	341.10	327
282.10	138	301.10	59	321.05	263	342.20	157
282.95	263	302.20	95	322.05	179	345.95	628
284.05	269	303.10	973	323.10	2478	346.90	50
285.00	435	304.05	271	324.05	357	352.00	245
289.00	51	307.95	148	327.00	515	352.15	536

Average of 2.576 to 2.587 min.: 3E82684.D\data.ms
dftpp
Modified:subtracted

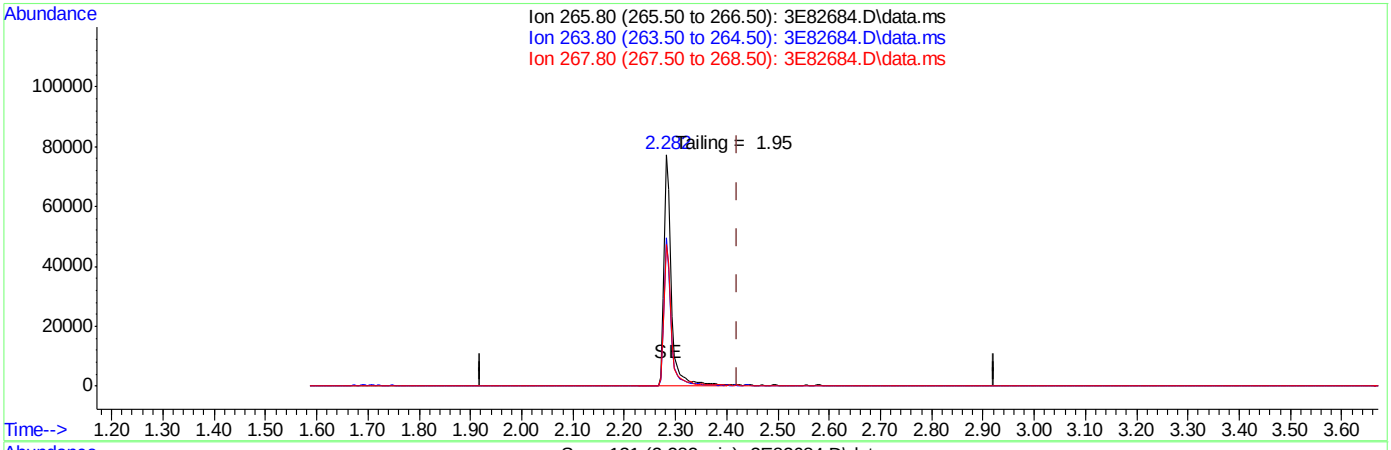
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
353.15	576	391.00	72	441.10	8486		
354.05	873	392.10	51	442.10	56685		
355.15	196	401.20	56	443.10	11103		
365.05	3692	402.05	525	444.15	990		
366.05	638	402.95	637				
371.05	159	404.05	218				
372.10	1557	421.10	538				
373.10	374	422.05	745				
383.05	342	423.10	4236				
384.10	64	424.05	756				
389.95	111	438.30	57				

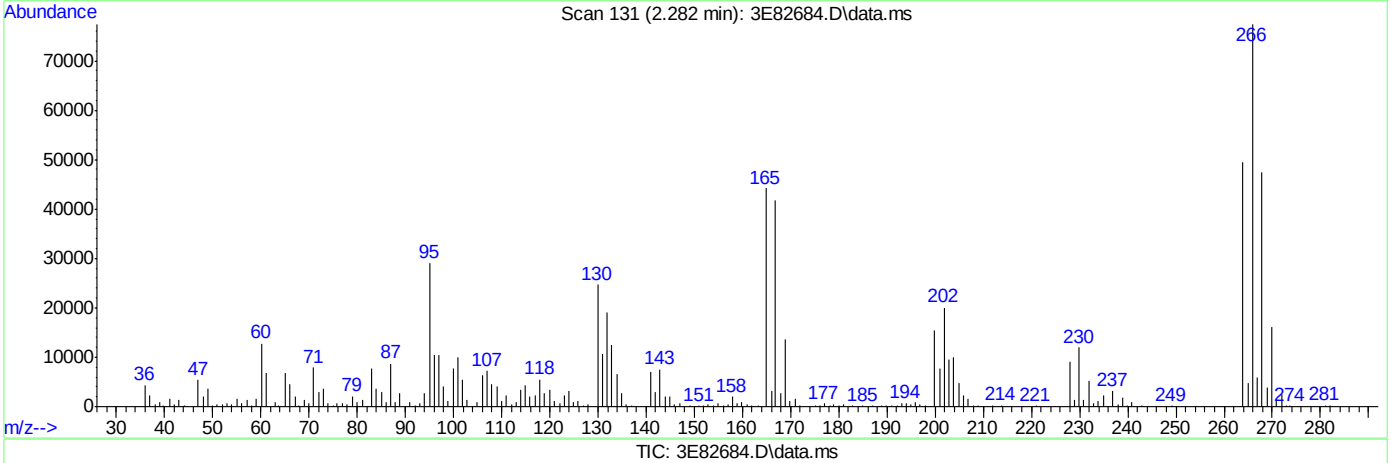
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3622\
Data File : 3E82684.D
Acq On : 27 Apr 2016 9:39 am
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3622
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:58:13 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.282min (-0.139) 48.87ppb

response 76381

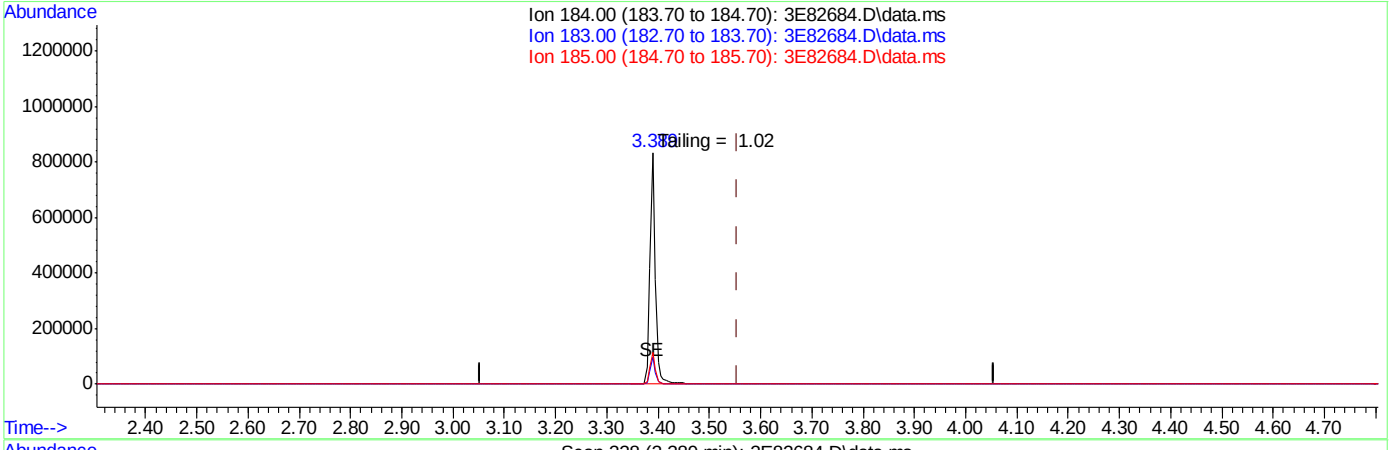
Ion	Exp%	Act%
265.80	100	100
263.80	62.20	63.83
267.80	64.70	60.95
0.00	0.00	0.00

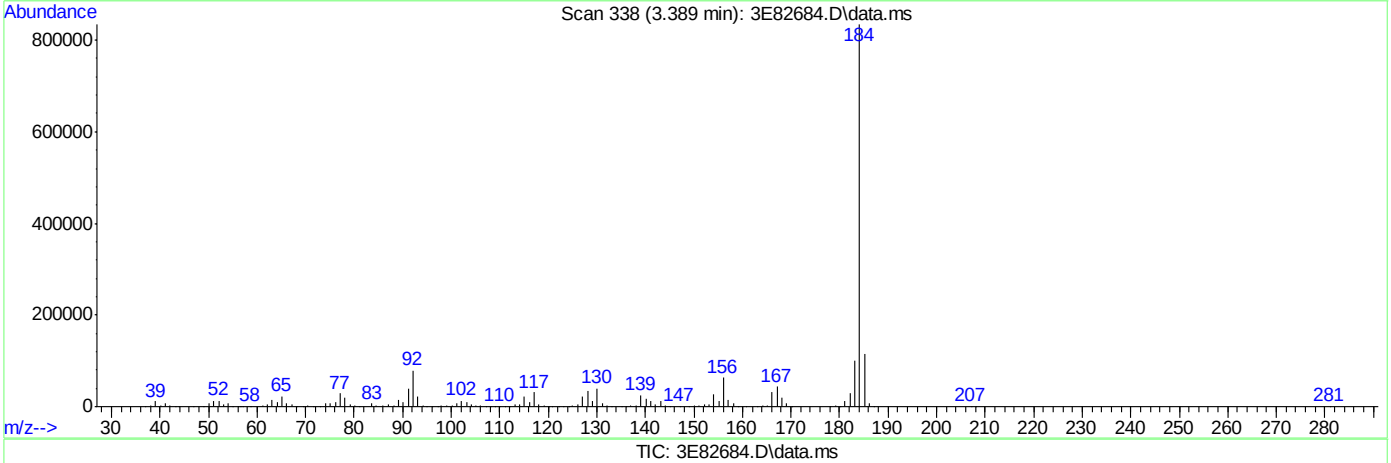
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3622\
Data File : 3E82684.D
Acq On : 27 Apr 2016 9:39 am
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3622
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:58:13 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E82684.D\data.ms

(2) Benzidine (t)

3.389min (-0.166) 58.24ppb

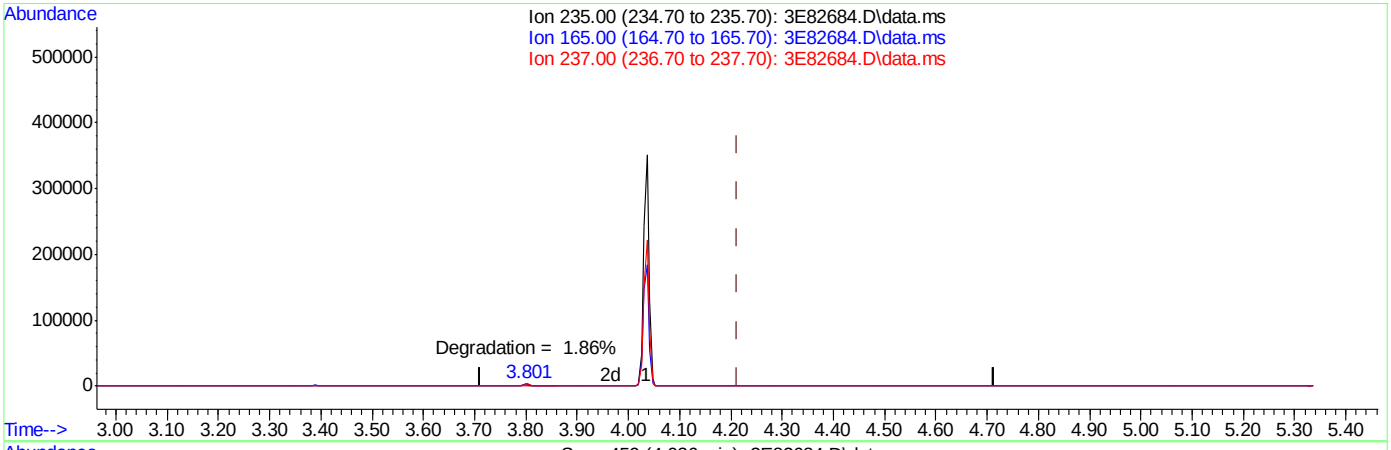
response 611530

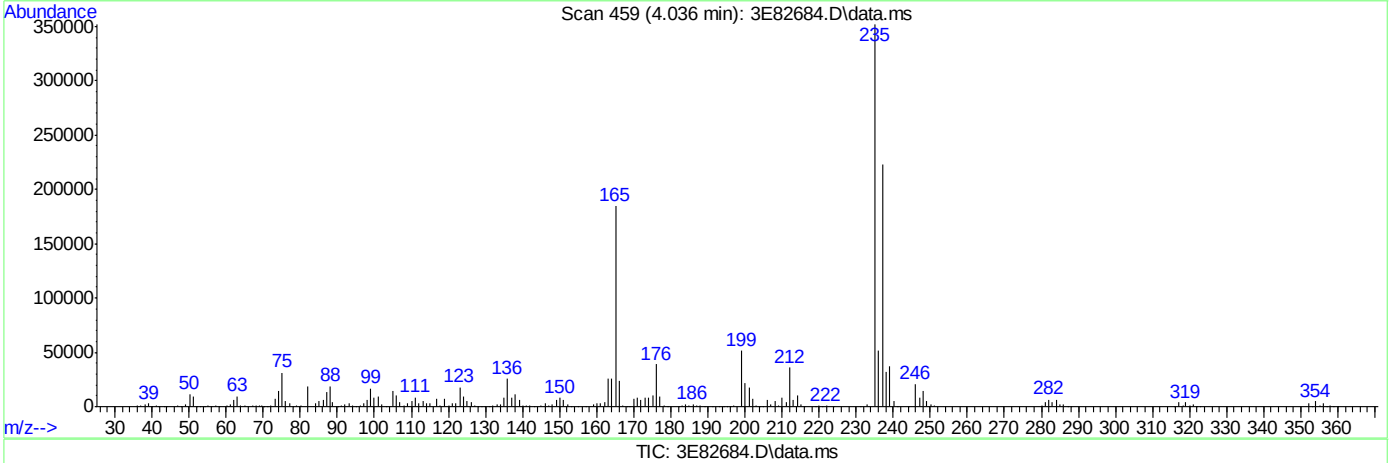
Ion	Exp%	Act%
184.00	100	100
183.00	13.20	11.94
185.00	15.40	13.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3622\
Data File : 3E82684.D
Acq On : 27 Apr 2016 9:39 am
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3622
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:58:13 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E82684.D\data.ms

(3) PP-DDT (t)

4.036min (-0.177) 61.08ppb

response 253588

Ion	Exp%	Act%
235.00	100	100
165.00	0.10	55.01#
237.00	0.10	63.63#
0.00	0.00	0.00

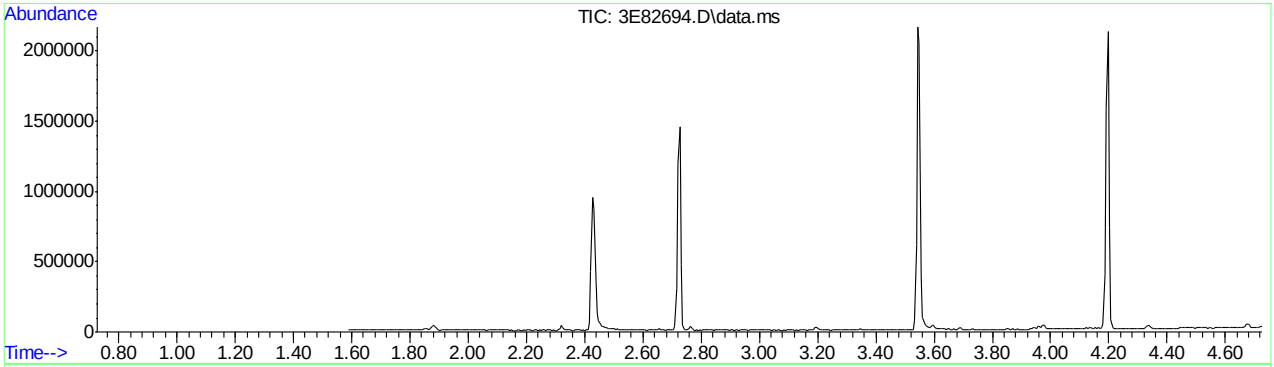
SGS ACCUTEST JC19423

DFTPP

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82694.D
Acq On : 27 Apr 2016 3:21 pm
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3623
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp3e.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
Last Update : Sat Aug 08 13:07:52 2015



AutoFind: Scans 213, 214, 215; Background Corrected with Scan 208

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.8	53138	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.3	52572	PASS
70	69	0.00	2	0.5	250	PASS
127	198	40	60	54.0	57610	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	106714	PASS
199	198	5	9	6.3	6685	PASS
275	198	10	30	27.3	29152	PASS
365	198	1	100	4.1	4414	PASS
441	443	0.10	100	85.2	15379	PASS
442	198	40	100	86.4	92170	PASS
443	442	17	23	19.6	18045	PASS

SGS ACCUTEST JC19423

Average of 2.721 to 2.731 min.: 3E82694.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	117	46.10	50	56.95	3304	65.80	88
36.95	280	47.05	251	57.80	58	66.00	78
38.05	878	47.70	59	58.00	85	69.00	52572
39.10	4913	48.00	151	60.80	89	70.15	250
40.00	321	50.10	15901	61.10	803	73.05	298
40.95	143	51.05	53138	62.05	920	74.10	5681
41.90	286	52.10	2848	62.80	191	75.05	8433
43.00	133	52.80	67	63.05	1886	76.10	493
44.00	106	54.05	131	64.00	169	77.10	57460
44.90	92	55.00	192	64.20	189	78.05	3589
45.20	99	56.05	1405	65.05	783	79.10	4057

Average of 2.721 to 2.731 min.: 3E82694.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	3038	91.00	824	100.00	473	112.80	56
81.10	3695	91.80	138	101.00	2056	113.10	275
81.95	1253	92.05	1168	102.10	100	114.00	63
83.00	1208	92.95	6550	103.00	768	114.70	103
83.90	247	93.80	185	104.05	1271	114.90	67
85.00	338	94.10	255	105.05	1617	115.80	456
85.20	546	95.05	216	107.10	16366	117.05	14303
85.90	1449	96.00	197	108.05	3154	118.00	1050
87.05	581	97.05	274	110.05	28291	119.10	79
88.05	170	98.00	5123	111.00	4560	119.95	320
89.00	70	99.05	4145	111.95	391	120.80	51

Average of 2.721 to 2.731 min.: 3E82694.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
121.00	82	131.10	590	139.30	79	147.15	1802
121.90	473	132.05	364	139.60	134	148.10	3179
122.10	851	132.65	195	140.10	573	148.95	782
122.70	128	134.00	718	141.05	2769	150.05	230
123.05	1883	135.00	1883	142.10	1066	150.90	264
124.05	777	136.00	781	142.90	533	151.25	220
125.10	1001	136.90	447	143.20	90	151.80	138
127.10	57610	137.10	504	143.75	162	152.10	134
128.00	2878	137.70	143	144.10	96	152.80	120
129.05	22318	138.10	83	144.85	139	153.05	898
130.00	2060	138.65	129	146.15	739	153.95	714

Average of 2.721 to 2.731 min.: 3E82694.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.10	1901	163.05	180	171.80	104	181.05	1228
156.05	2215	163.65	113	172.10	446	181.75	216
156.90	275	165.00	1293	173.10	870	182.50	96
157.10	247	165.70	171	174.05	1069	183.00	63
157.50	269	166.20	719	175.05	1969	183.95	306
158.00	566	167.10	5728	175.70	62	184.20	251
158.75	193	168.05	2936	176.15	722	184.80	686
159.15	418	169.10	493	177.00	1304	185.20	457
160.00	1018	170.10	187	178.90	1605	186.10	14426
161.10	1565	170.90	158	179.10	2417	187.10	4550
161.95	397	171.10	114	180.00	2510	188.05	514

Average of 2.721 to 2.731 min.: 3E82694.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
189.05	1005	199.05	6685	208.90	101	217.90	1053
190.10	318	199.85	678	209.20	206	218.70	67
190.70	55	201.00	91	209.80	469	219.10	66
191.00	293	201.50	696	210.20	186	219.30	113

dftpp3e.M Thu Apr 28 09:08:35 2016 MS3E Page: 2

191.20	262	202.30	94	211.05	1396	219.90	141
191.95	1296	202.90	1083	212.00	176	221.00	1984
193.00	1622	204.10	4013	214.80	133	221.20	3620
194.20	442	205.05	7232	215.00	292	221.85	920
194.95	302	206.10	26209	215.70	263	222.20	138
195.95	3739	207.05	3312	216.10	536	222.95	947
198.00	106714	208.00	1053	217.05	6659	224.10	14263

Average of 2.721 to 2.731 min.: 3E82694.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.05	3703	234.30	106	242.05	878	250.00	61
226.00	252	234.80	195	243.20	332	251.10	86
227.00	6127	234.95	347	244.10	11875	251.40	101
228.00	760	235.50	53	245.10	1626	251.90	354
228.20	127	235.95	401	246.10	2179	252.40	216
229.00	1198	236.90	233	247.00	443	253.20	801
230.30	190	237.05	356	247.75	196	255.05	57749
230.85	570	238.85	533	248.20	95	256.00	9429
232.00	162	240.00	159	248.90	360	257.05	310
233.80	118	240.80	63	249.10	236	257.30	387
234.05	469	241.05	392	249.50	63	258.05	3710

Average of 2.721 to 2.731 min.: 3E82694.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.95	686	274.05	5508	284.00	132	301.70	102
260.70	61	275.05	29152	284.95	423	303.05	1024
262.70	52	276.05	4092	289.10	121	304.00	364
264.10	328	277.05	2356	290.20	52	308.00	278
264.95	1594	277.70	82	293.00	453	310.20	140
265.90	159	278.05	296	293.80	158	312.95	117
270.70	79	278.80	50	294.10	55	313.30	152
271.10	280	280.80	127	296.05	8533	313.95	559
271.90	114	281.70	75	297.00	1040	314.60	150
272.30	86	282.00	60	298.10	65	314.95	926
273.05	2314	282.95	276	300.90	64	316.15	571

Average of 2.721 to 2.731 min.: 3E82694.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
317.10	114	332.30	77	345.20	80	355.30	66
321.05	425	332.80	52	346.05	808	361.70	90
323.00	2908	333.05	337	347.00	131	362.80	126
324.15	737	334.05	1803	351.40	84	365.05	4414
325.70	61	335.05	783	351.90	231	365.95	803
326.10	55	337.10	52	352.05	757	370.20	75
326.80	155	340.10	55	353.00	248	371.10	183
327.00	470	340.60	58	353.20	598	372.05	1639
327.95	291	341.00	115	353.60	94	373.00	629
329.10	56	341.30	70	354.15	889	382.80	146
332.05	289	341.90	56	355.10	81	383.05	330

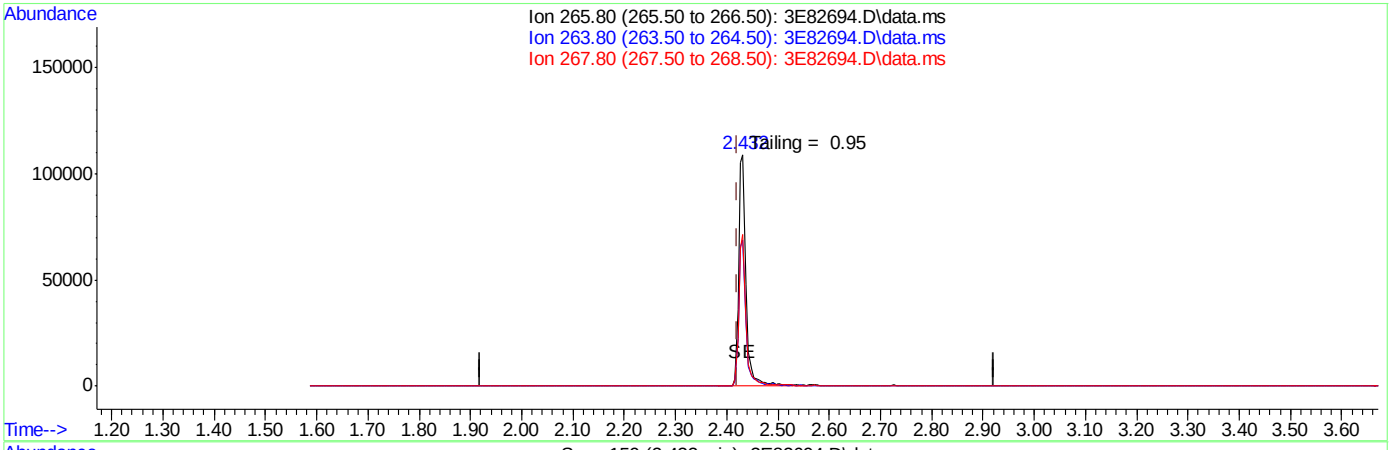
Average of 2.721 to 2.731 min.: 3E82694.D\data.ms
dftpp
Modified:subtracted

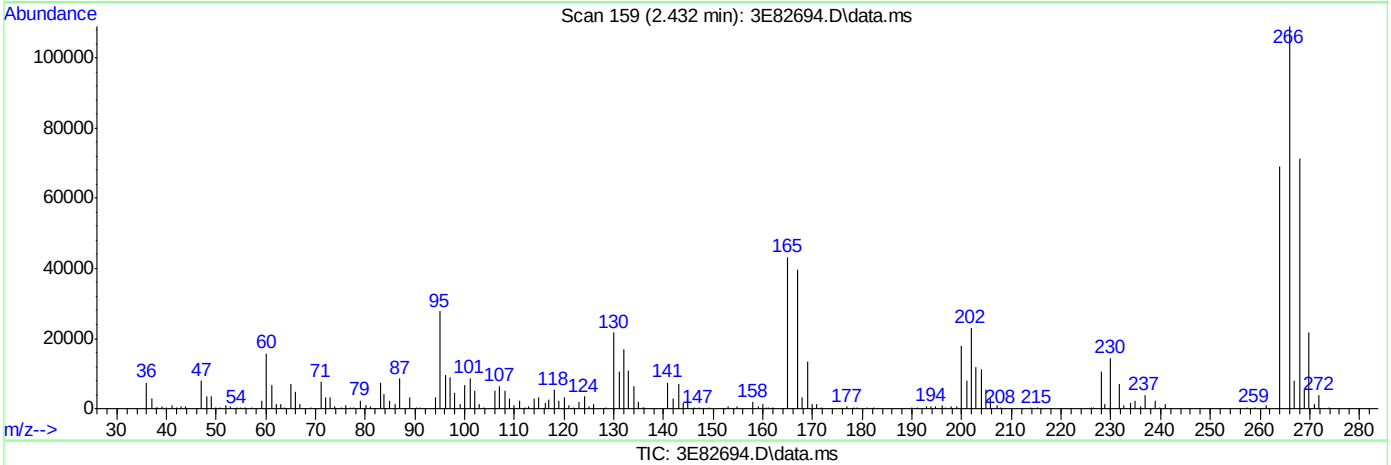
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
385.00	63	421.05	918	435.55	241	442.10	92170
389.80	51	422.10	542	436.25	211	443.10	18045
390.05	175	423.10	5770	436.90	128	444.10	1790
390.90	114	424.05	1230	437.10	99	445.00	64
392.00	164	425.10	111	437.75	275		
394.10	56	430.20	91	438.15	362		
401.05	176	431.70	74	438.90	245		
402.05	787	433.40	95	439.40	151		
403.00	1121	434.15	152	439.70	110		
404.05	322	434.50	61	439.90	149		
420.10	80	434.90	62	441.20	15379		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82694.D
Acq On : 27 Apr 2016 3:21 pm
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3623
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 15:28:41 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.432min (+0.011) 71.67ppb

response 112005

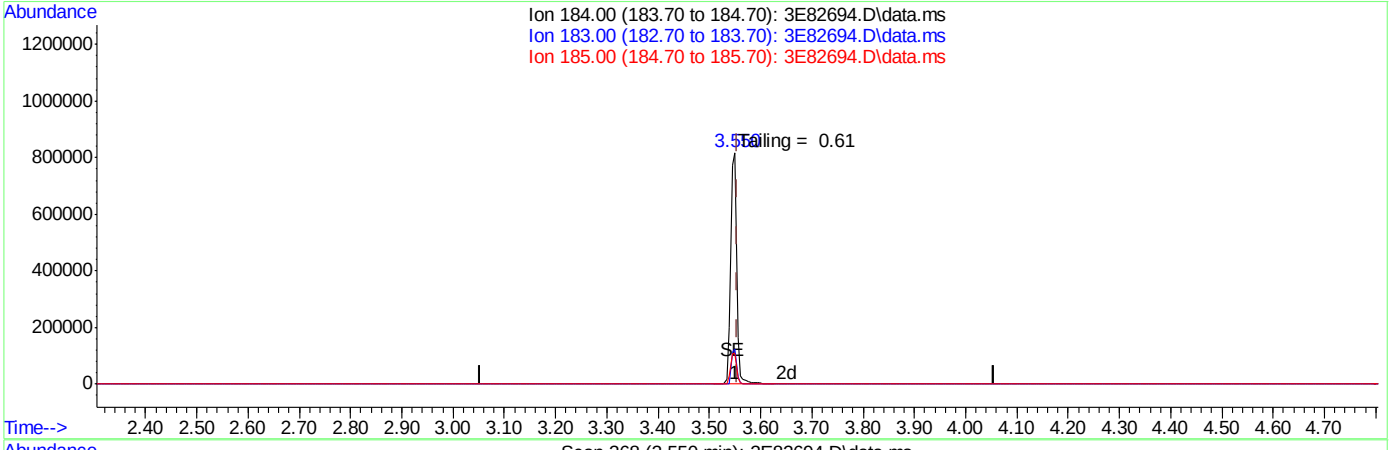
Ion	Exp%	Act%
265.80	100	100
263.80	62.20	63.18
267.80	64.70	65.25
0.00	0.00	0.00

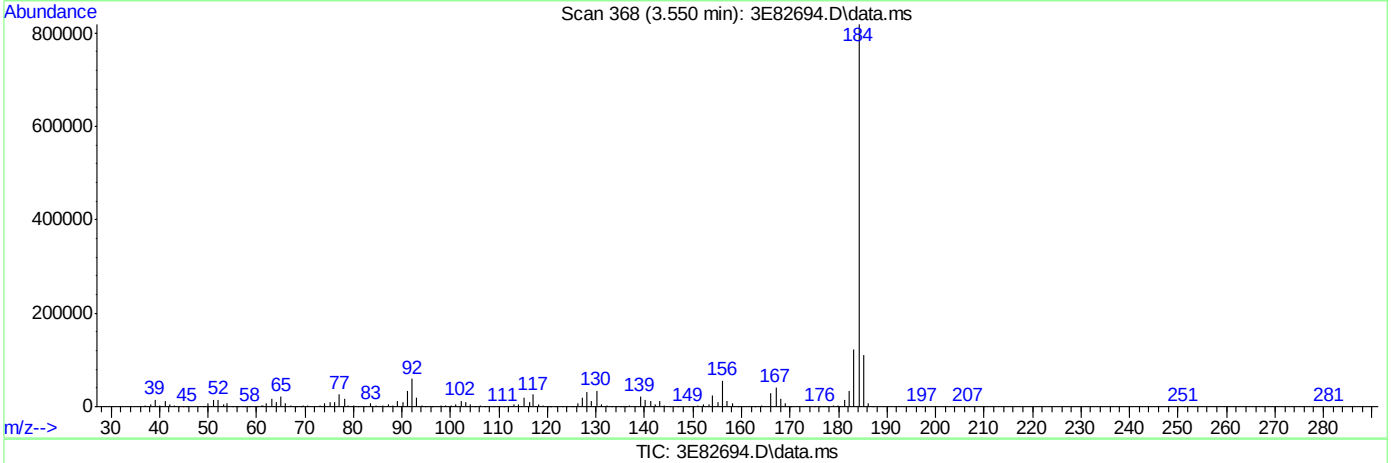
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82694.D
Acq On : 27 Apr 2016 3:21 pm
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3623
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 15:28:41 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E82694.D\data.ms

(2) Benzidine (t)

3.550min (-0.005) 63.38ppb

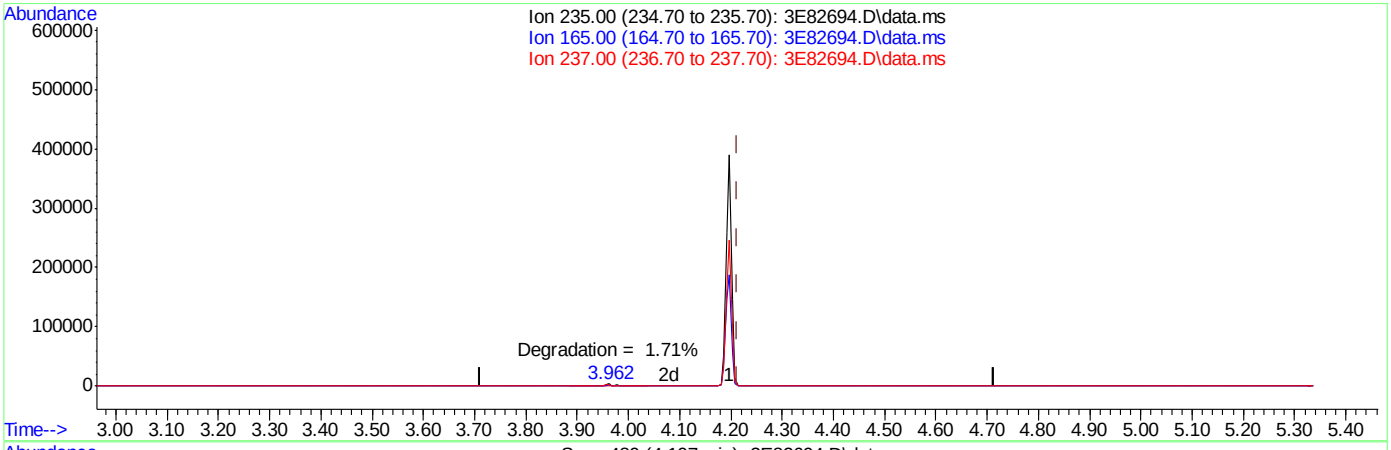
response 665561

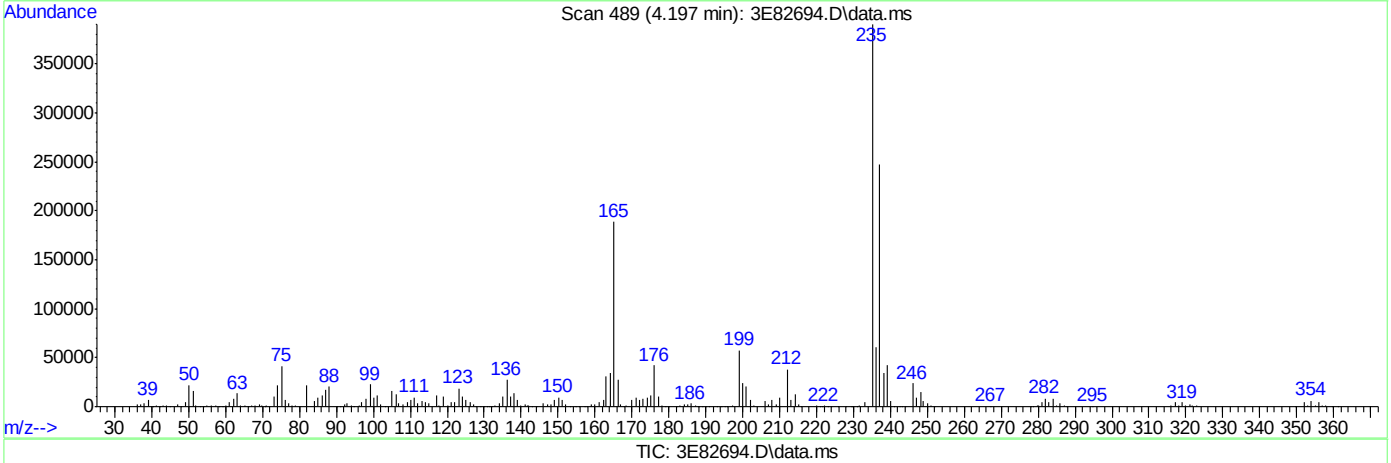
Ion	Exp%	Act%
184.00	100	100
183.00	13.20	14.96
185.00	15.40	13.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82694.D
Acq On : 27 Apr 2016 3:21 pm
Operator : ashleyn
Sample : dftpp
Misc : op93161,e3e3623
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 15:28:41 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E82694.D\data.ms

(3) PP-DDT (t)

4.197min (-0.016) 67.09ppb

response 278535

Ion	Exp%	Act%
235.00	100	100
165.00	0.10	50.49#
237.00	0.10	63.46#
0.00	0.00	0.00

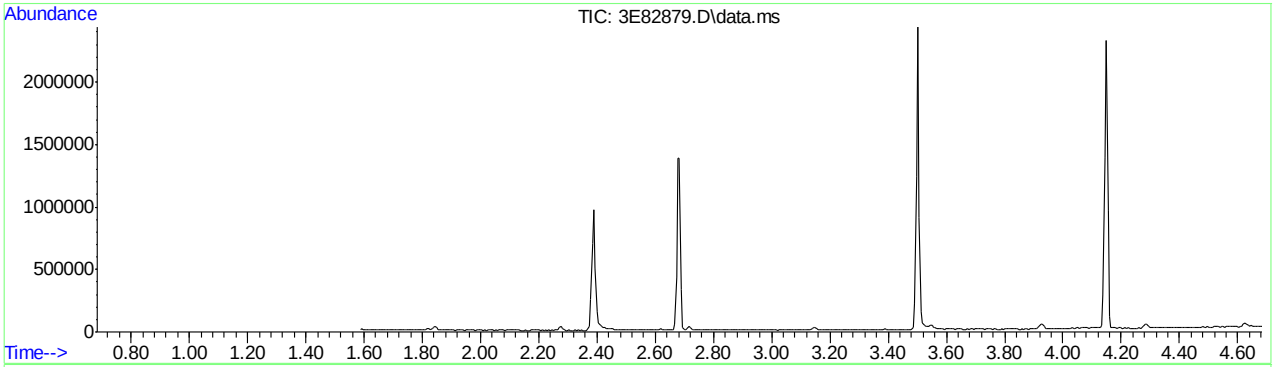
SGS ACCUTEST JC19423

DFTPP

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82879.D
Acq On : 4 May 2016 2:27 pm
Operator : ashleyn
Sample : dftpp
Misc : op93477,e3e3634
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp3e.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
Last Update : Sat Aug 08 13:07:52 2015



AutoFind: Scans 205, 206, 207; Background Corrected with Scan 200

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.9	47923	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.5	48474	PASS
70	69	0.00	2	1.0	501	PASS
127	198	40	60	55.7	56865	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	102136	PASS
199	198	5	9	6.8	6915	PASS
275	198	10	30	28.9	29566	PASS
365	198	1	100	4.7	4786	PASS
441	443	0.10	100	64.6	11196	PASS
442	198	40	100	88.4	90256	PASS
443	442	17	23	19.2	17318	PASS

SGS ACCUTEST JC19423

Average of 2.678 to 2.689 min.: 3E82879.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	194	44.90	117	57.10	2971	66.90	15
36.90	260	46.90	202	57.95	170	67.20	103
37.80	65	48.15	173	59.10	80	69.10	48474
38.05	1104	49.05	1511	60.10	64	70.10	501
38.30	67	50.10	15257	60.50	138	71.15	179
39.10	5549	51.10	47923	61.05	643	71.90	86
40.05	9	52.10	2905	62.05	710	73.50	125
40.90	189	53.05	227	63.15	1979	74.10	5867
42.60	84	54.20	52	64.10	209	75.10	8010
43.05	272	55.05	470	64.50	148	77.05	51103
44.05	499	56.00	1316	65.10	997	78.15	3706

Average of 2.678 to 2.689 min.: 3E82879.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.10	4179	88.95	145	100.60	88	110.75	46
80.10	2923	91.05	894	101.05	1886	111.15	4171
81.05	4014	92.15	466	102.00	69	112.15	542
82.00	1110	93.10	6200	103.00	945	112.90	148
82.70	103	93.95	425	103.80	106	113.15	49
83.10	998	95.05	212	104.10	1378	114.30	96
84.00	568	96.05	434	105.00	1323	114.75	108
85.00	335	97.20	67	107.05	16037	115.00	108
86.05	1201	98.10	5392	108.00	2323	116.00	92
87.10	499	99.10	3868	108.20	208	117.10	15926
87.95	126	99.95	400	110.10	27399	117.80	77

Average of 2.678 to 2.689 min.: 3E82879.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.05	1077	127.10	56865	134.05	708	142.95	808
118.60	86	128.20	2907	134.40	106	143.90	135
119.00	57	129.10	23623	135.05	1884	144.20	112
120.00	254	130.05	2049	135.70	87	144.60	147
121.15	64	130.40	89	136.05	764	145.25	172
121.80	64	130.80	190	136.80	419	145.95	614
122.05	1238	131.00	188	137.15	845	146.80	128
123.10	1902	132.00	100	138.15	368	147.15	1555
124.05	1020	132.80	76	139.00	221	147.60	168
125.05	981	133.10	102	141.05	3623	148.10	3638
125.80	69	133.40	62	142.10	1098	148.70	52

Average of 2.678 to 2.689 min.: 3E82879.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
149.05	603	158.00	568	168.05	2630	176.95	911
150.05	287	159.05	473	169.00	508	177.20	157
151.00	386	160.10	982	170.00	289	178.00	225
151.90	202	161.05	1304	170.85	274	178.95	4180
152.15	3	162.00	493	171.10	231	180.10	3008
153.10	1161	163.05	174	172.15	687	181.05	1350
153.95	781	164.20	342	173.00	89	182.00	178
154.80	94	165.05	1091	173.25	741	182.80	115
155.10	1495	165.90	471	174.10	1447	183.00	63
156.10	2454	166.20	155	175.05	2145	184.00	577
157.00	576	167.05	6349	176.10	725	185.20	2409

Average of 2.678 to 2.689 min.: 3E82879.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
186.10	15443	194.30	75	204.15	4460	213.00	82
187.10	3765	194.90	87	205.05	7434	215.20	528
188.15	401	196.15	3298	206.10	27049	215.90	475
188.40	51	198.10	102136	207.10	3803	216.20	482

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189.05	1304	199.05	6915	208.10	1355	217.05	7313
190.15	287	200.00	678	209.05	306	218.00	785
191.05	97	200.40	60	209.90	185	219.05	206
191.90	653	201.00	389	210.25	341	219.70	100
192.10	906	201.55	314	210.75	803	221.10	4837
193.10	1729	201.90	219	211.10	428	223.00	2024
194.05	439	202.90	512	212.15	184	224.10	15948

Average of 2.678 to 2.689 min.: 3E82879.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.05	3808	233.10	166	240.30	136	249.15	496
226.00	97	233.95	36	241.00	250	250.20	65
227.05	6784	234.20	277	241.30	247	251.00	79
228.10	1401	235.00	337	242.05	1014	251.20	120
228.60	91	235.20	230	243.00	244	251.70	161
229.10	1440	236.05	407	244.10	12424	252.00	112
229.90	53	237.10	634	245.10	1928	252.20	98
230.20	179	238.10	102	246.05	2594	252.80	56
230.90	287	238.90	185	247.05	464	253.15	838
231.10	241	239.65	193	247.90	79	253.50	176
232.10	88	240.05	142	248.80	78	255.10	62757

Average of 2.678 to 2.689 min.: 3E82879.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.10	9331	264.00	89	271.80	184	281.10	90
257.00	346	265.00	1456	272.10	276	282.90	140
257.25	538	265.20	248	273.05	1782	283.20	177
258.00	3754	266.05	391	273.40	416	284.10	290
259.00	502	268.00	168	274.20	5720	285.05	558
259.20	67	269.90	92	275.10	29566	286.10	120
260.00	74	270.30	58	276.05	4247	288.10	53
261.00	181	270.50	86	277.05	2694	288.90	53
262.55	125	270.80	65	277.90	441	290.20	74
262.90	80	271.05	304	279.00	55	291.40	68
263.60	90	271.30	54	280.80	54	291.90	67

Average of 2.678 to 2.689 min.: 3E82879.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
292.30	53	302.30	148	314.95	1183	328.00	443
292.95	699	303.20	1232	316.20	480	331.30	77
293.20	112	304.15	300	317.10	58	332.00	80
294.10	274	305.20	64	318.40	51	332.20	205
294.60	57	307.70	70	321.00	283	332.90	63
296.05	9543	308.20	150	321.40	147	333.20	227
297.00	1332	308.80	75	322.10	110	334.10	2074
297.95	124	310.10	143	323.10	3250	335.15	618
300.75	209	311.85	135	324.10	735	335.90	52
301.25	111	313.05	131	325.10	70	336.30	54
302.00	76	314.05	579	327.00	604	341.00	56

Average of 2.678 to 2.689 min.: 3E82879.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.25	333	361.80	50	382.60	95	401.60	99
346.10	758	362.80	62	382.90	206	402.15	655
346.80	64	363.45	135	383.20	197	403.15	1000
347.10	64	365.05	4786	383.95	119	404.10	420
351.20	55	365.80	341	389.95	196	404.90	57
352.05	1163	366.05	394	390.20	76	420.20	64
353.15	639	370.10	93	390.50	80	421.10	1075
354.05	1016	370.70	64	391.15	234	422.00	429
355.00	149	371.05	259	391.80	101	422.35	480
355.20	148	372.05	1988	392.10	112	423.10	6262
358.60	61	373.10	489	401.30	55	424.00	944

Average of 2.678 to 2.689 min.: 3E82879.D\data.ms

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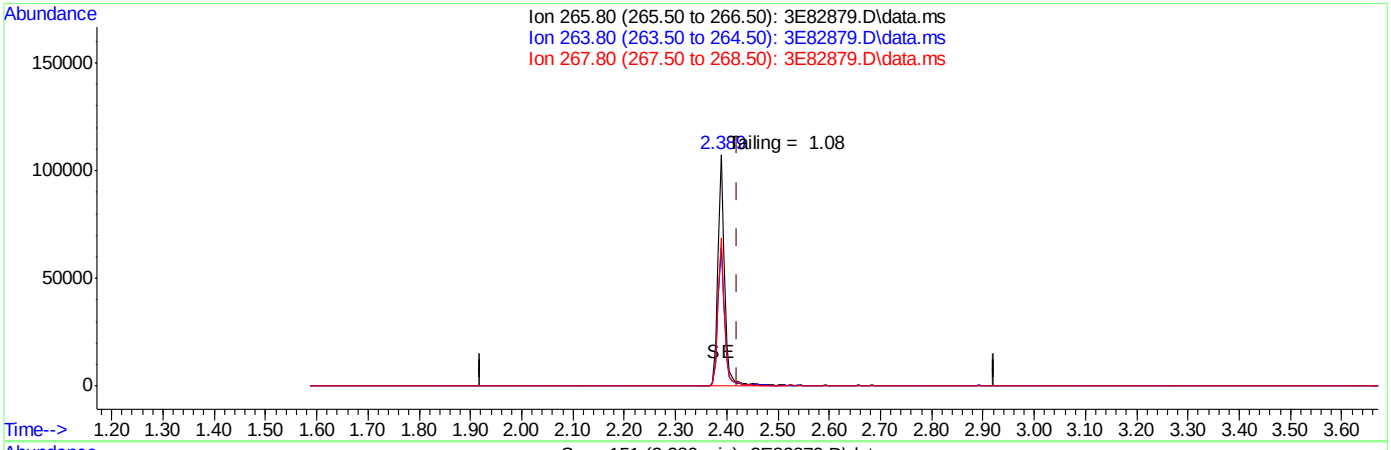
dftpp
Modified:subtracted

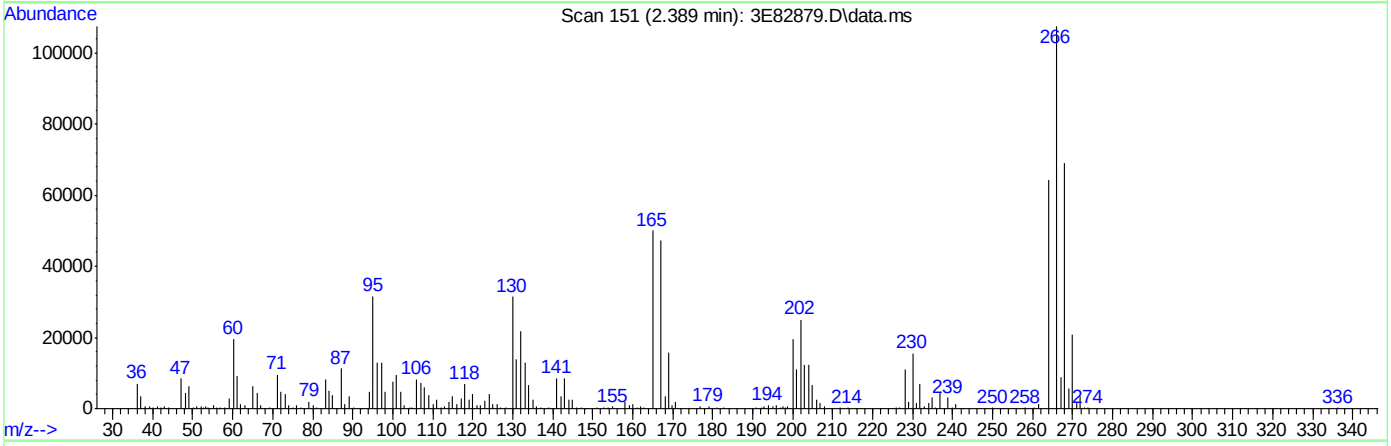
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
424.30	230	434.50	146	438.80	192		
425.20	75	434.70	57	439.20	97		
426.00	53	435.00	85	439.50	201		
427.40	57	435.50	238	440.10	185		
428.60	121	435.90	88	441.20	11196		
431.40	81	436.50	59	442.10	90256		
431.80	82	436.70	270	443.10	17318		
432.90	286	437.00	74	444.05	1723		
433.65	144	437.30	262	445.20	72		
433.90	69	437.90	58				
434.10	64	438.35	233				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82879.D
Acq On : 4 May 2016 2:27 pm
Operator : ashleyn
Sample : dftpp
Misc : op93477,e3e3634
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 14:32:59 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.389min (-0.032) 61.00ppb

response 95327

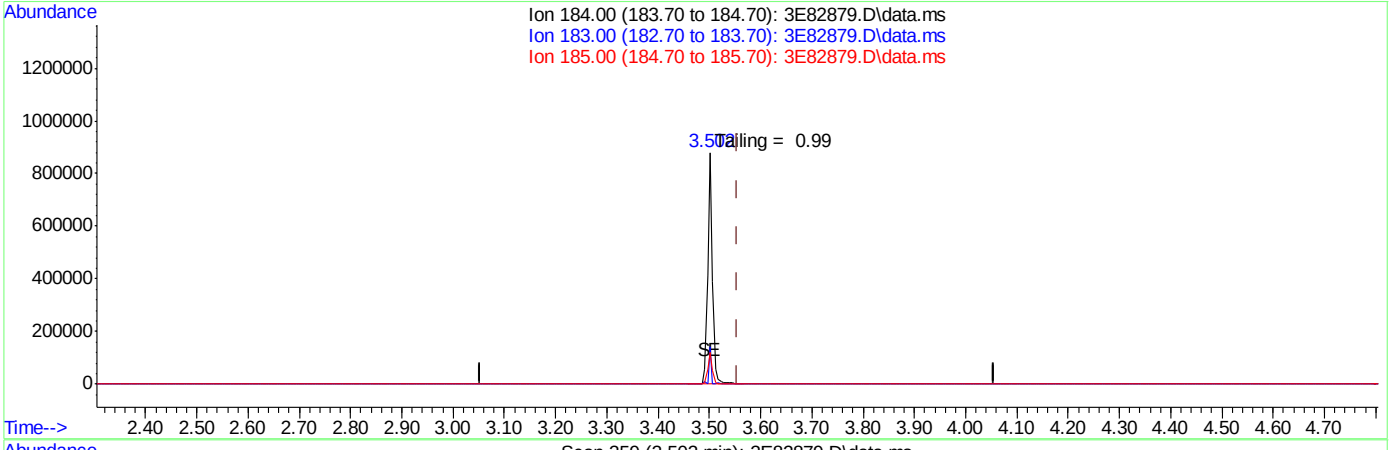
Ion	Exp%	Act%
265.80	100	100
263.80	62.20	59.63
267.80	64.70	64.11
0.00	0.00	0.00

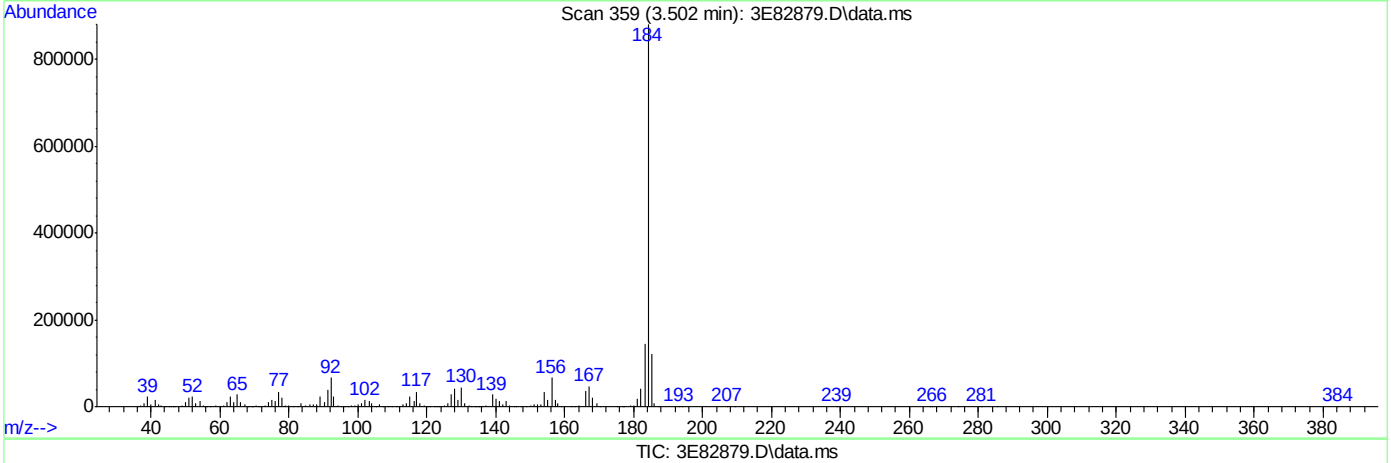
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82879.D
Acq On : 4 May 2016 2:27 pm
Operator : ashleyn
Sample : dftpp
Misc : op93477,e3e3634
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 14:32:59 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E82879.D\data.ms

(2) Benzidine (t)

3.502min (-0.054) 57.48ppb

response 603554

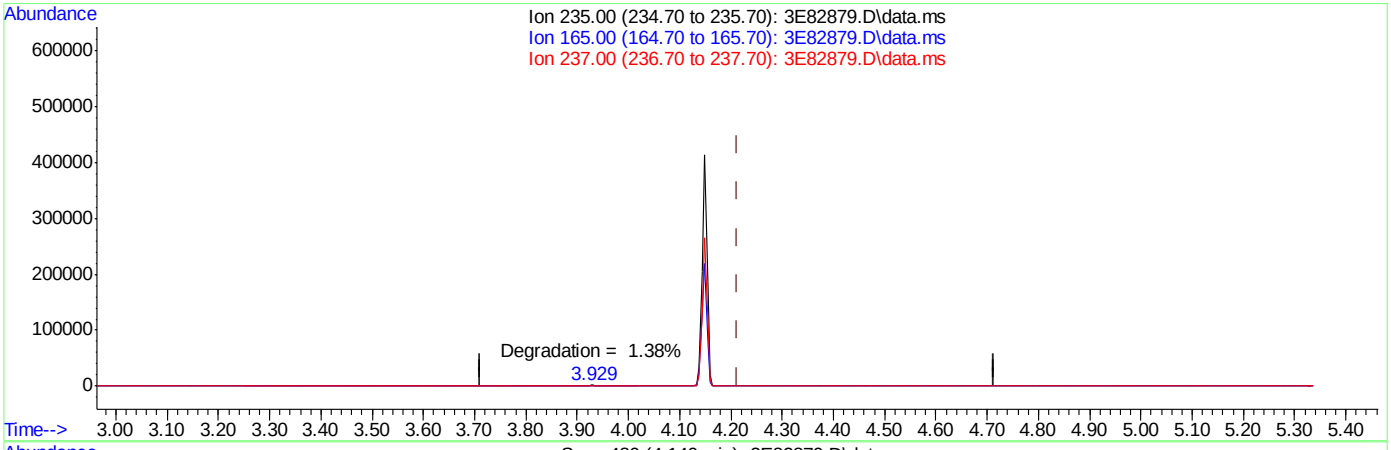
Ion	Exp%	Act%
184.00	100	100
183.00	13.20	16.37
185.00	15.40	13.77
0.00	0.00	0.00

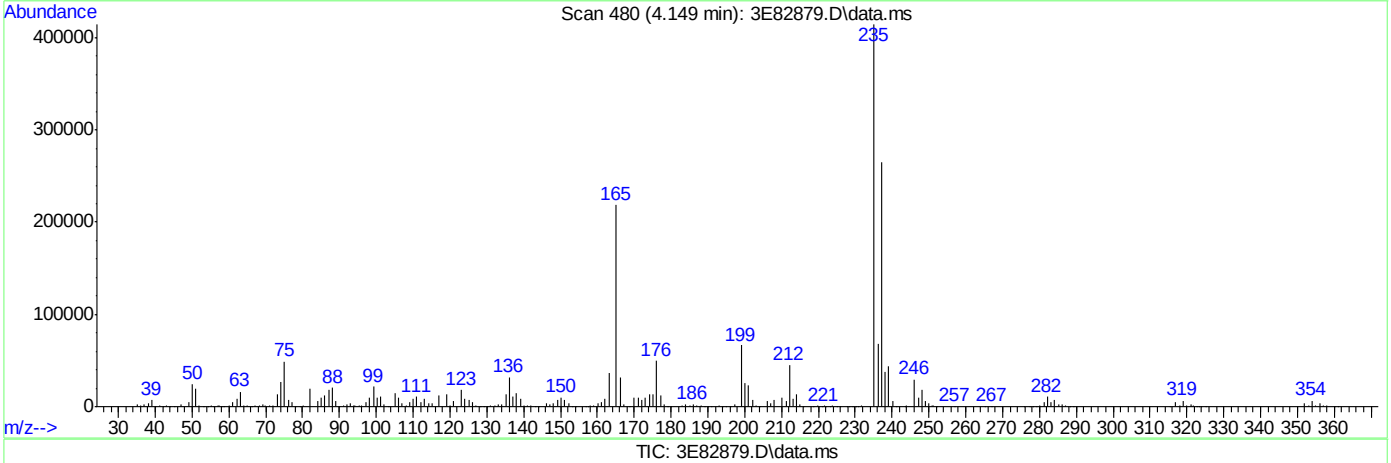
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82879.D
Acq On : 4 May 2016 2:27 pm
Operator : ashleyn
Sample : dftpp
Misc : op93477,e3e3634
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 14:32:59 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E82879.D\data.ms

(3) PP-DDT (t)

4.149min (-0.064) 66.93ppb

response 277866

Ion	Exp%	Act%
235.00	100	100
165.00	0.10	53.51#
237.00	0.10	63.57#
0.00	0.00	0.00

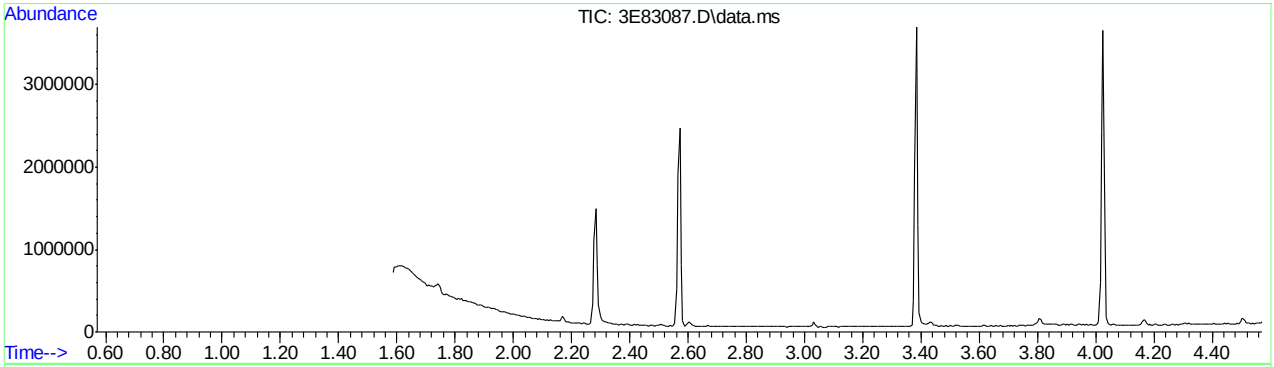
SGS ACCUTEST JC19423

DFTPP

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83087.D
Acq On : 11 May 2016 9:05 am
Operator : ashleyn
Sample : dftpp
Misc : op93596,e3e3643
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp3e.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
Last Update : Sat Aug 08 13:07:52 2015



AutoFind: Scans 184, 185, 186; Background Corrected with Scan 177

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.4	80544	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.8	71236	PASS
70	69	0.00	2	1.4	991	PASS
127	198	40	60	53.7	89371	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	166336	PASS
199	198	5	9	7.0	11576	PASS
275	198	10	30	29.2	48517	PASS
365	198	1	100	5.5	9106	PASS
441	443	0.10	100	84.1	13080	PASS
442	198	40	100	50.6	84160	PASS
443	442	17	23	18.5	15562	PASS

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	264	48.40	193	59.50	106	67.10	631
36.20	74	50.10	26231	60.30	80	69.00	71236
37.10	439	51.05	80544	60.60	56	70.05	991
38.00	1788	52.10	3854	61.00	927	72.05	164
39.10	6357	53.15	635	61.20	97	73.10	976
40.05	383	54.10	134	61.95	1302	74.05	9541
44.00	103	55.10	1140	63.00	2337	75.10	14006
45.05	191	56.05	2757	64.20	459	75.95	13
46.95	86	57.05	4182	65.00	1374	77.10	80391
47.20	264	57.80	117	65.70	56	78.05	5479
47.65	88	58.15	219	66.10	64	79.05	6693

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	4110	92.10	1694	102.10	11	112.10	543
81.00	6459	93.05	13956	102.40	195	112.70	271
82.00	1897	94.00	440	103.00	948	112.90	267
83.00	851	95.10	407	104.00	1963	113.70	85
85.10	1137	96.05	441	104.20	221	114.00	177
86.05	2351	98.10	10514	105.05	1956	114.40	265
87.10	1055	99.05	7066	107.05	31004	114.60	71
88.00	125	99.90	274	108.10	4604	115.20	341
88.70	85	100.10	69	110.10	41158	116.10	458
89.70	82	100.70	306	111.05	7304	117.00	34876
91.00	2083	101.00	3641	111.90	495	118.00	2274

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.30	120	128.15	7634	135.00	3077	144.95	28
119.60	126	129.05	40427	136.05	1623	145.20	338
119.90	324	130.00	3279	137.00	1604	145.80	127
120.20	181	130.90	601	138.05	166	146.10	1167
120.85	301	131.20	229	138.90	187	147.10	3804
122.10	2694	132.50	350	140.00	506	148.00	8103
123.05	3813	132.95	24	140.95	6018	149.00	1197
123.95	1909	133.20	62	142.00	654	149.95	121
125.10	1412	133.60	289	142.20	1114	150.30	58
125.60	310	133.90	494	142.95	1373	151.15	827
127.05	89371	134.20	1136	144.00	412	151.85	521

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.30	174	161.05	2523	170.15	498	179.00	7835
153.05	2276	162.05	885	171.00	339	180.05	5361
154.00	1720	163.00	64	171.50	83	181.05	2179
155.10	3354	163.40	189	172.00	977	181.90	546
156.15	4554	164.20	633	173.05	1492	182.50	338
157.15	1079	165.05	2480	174.10	2738	183.20	141
158.05	1087	166.10	1704	175.10	3650	184.00	727
158.50	374	167.05	12339	176.05	1395	184.20	769
158.95	644	168.05	5217	176.60	179	185.20	2417
159.20	199	168.90	512	177.05	2318	186.10	28761
160.00	1505	169.10	545	177.90	598	187.05	8158

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.10	875	196.05	5221	207.15	6526	216.00	724
188.35	141	198.00	166336	208.05	2603	217.00	15398
189.05	2498	199.05	11576	209.00	640	218.05	1985
189.90	160	199.95	1353	210.10	1087	218.90	69

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190.30	415	201.45	537	211.10	2454	219.40	113
191.05	1491	201.75	75	212.10	489	219.95	421
192.10	3045	202.10	229	212.80	91	220.40	150
193.10	3424	203.15	2350	213.10	143	221.05	5803
194.05	1077	204.10	8751	213.40	110	222.10	2131
194.60	132	205.10	15566	214.05	209	222.90	480
195.00	234	206.10	49989	215.00	856	223.15	3393

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.10	29196	232.40	211	239.60	104	247.20	428
225.10	7072	232.80	74	239.80	154	248.05	261
226.30	756	233.05	45	240.05	355	249.00	765
227.05	15057	234.00	982	240.90	383	249.80	137
228.10	2018	234.95	940	241.10	148	250.05	259
229.00	3228	235.20	344	242.05	1733	251.00	392
229.90	264	236.00	805	243.20	297	251.75	424
230.30	380	237.05	1088	244.10	20017	252.25	415
231.10	1234	237.85	174	245.10	2804	252.60	251
231.80	92	238.20	70	246.10	5465	252.90	201
232.20	86	238.85	805	246.90	446	253.40	329

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.80	772	262.00	137	271.25	167	280.40	181
255.10	111778	263.20	83	271.70	679	280.95	568
256.05	16175	265.05	3171	272.30	306	282.50	224
257.10	1198	265.80	412	273.15	4187	282.80	138
258.10	7834	266.10	100	274.05	9961	283.15	229
259.05	1519	267.30	238	275.10	48517	283.40	111
259.70	76	267.80	91	276.15	6381	284.10	518
260.00	89	268.80	105	277.05	5582	285.10	1037
260.25	223	270.10	81	277.95	1155	286.30	72
260.80	270	270.65	144	278.90	125	288.00	115
261.60	73	270.90	91	279.20	345	288.70	75

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
289.15	203	296.90	679	307.00	86	316.10	1156
290.05	276	297.05	2385	308.10	187	317.00	283
290.75	152	298.00	289	309.15	386	317.30	87
291.00	56	298.95	172	310.20	339	317.90	135
291.50	56	300.80	160	310.70	64	319.60	160
291.70	108	301.15	404	312.30	54	319.90	101
292.10	265	301.95	441	312.85	178	321.05	672
292.60	175	303.05	2070	313.10	87	321.95	228
293.00	1293	303.90	147	313.40	70	323.15	5083
294.15	482	304.20	420	314.10	1005	324.10	1074
296.05	20378	306.20	50	315.05	2606	324.90	117

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
325.40	62	332.95	686	345.80	221	353.90	471
325.90	170	334.05	3706	346.05	1377	354.15	1103
327.00	1288	335.10	872	346.95	309	355.00	548
327.80	327	338.90	96	347.40	87	358.40	54
328.10	421	340.10	79	348.10	52	359.00	140
328.30	122	340.90	80	349.35	131	359.40	52
329.15	188	341.20	545	350.10	72	360.60	76
330.10	69	341.40	56	351.10	142	361.60	65
331.00	93	342.00	162	351.60	298	362.00	132
331.85	469	342.70	70	352.05	1482	363.40	60
332.20	240	344.90	74	353.15	1326	365.05	9106

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms

dftpp3e.M Wed May 11 12:21:00 2016 MS3E Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
366.05	1324	383.00	873	398.30	51	405.50	95
366.90	98	384.10	140	399.40	55	411.00	56
367.20	60	385.15	203	400.30	69	415.30	57
369.60	55	389.95	277	400.75	187	418.00	81
369.90	204	390.30	170	401.00	50	418.40	60
370.30	99	391.15	395	401.80	161	420.80	281
370.80	162	392.00	192	402.15	961	421.10	701
371.25	231	392.30	66	402.90	638	422.00	246
372.10	2764	393.00	63	403.15	654	422.20	436
373.10	708	396.00	51	404.05	486	423.15	6142
377.70	54	396.20	63	405.05	131	424.05	572

Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

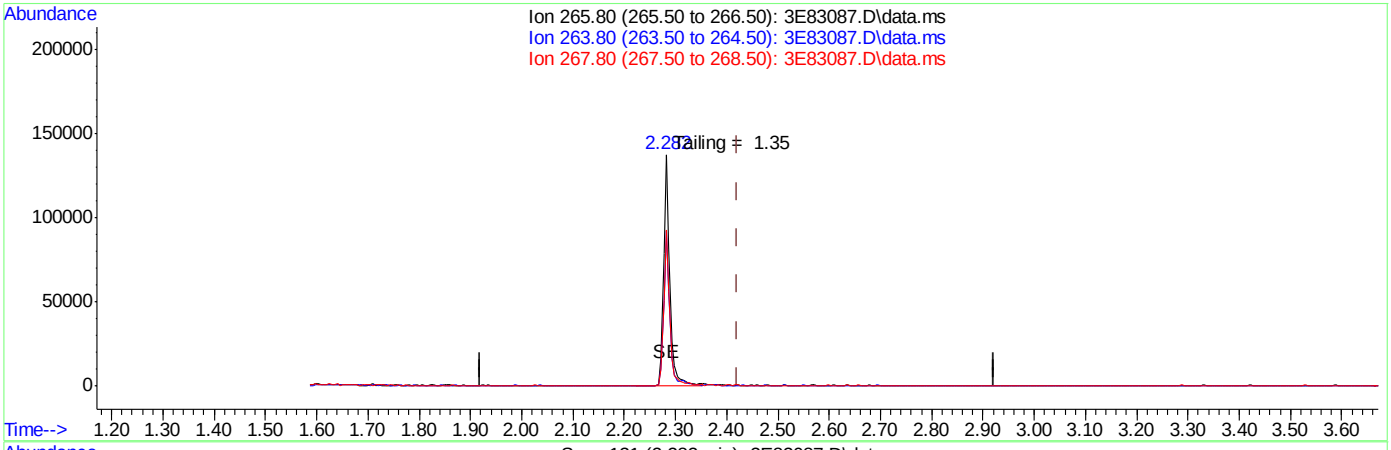
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
424.30	192	430.95	244	436.75	256	457.50	52
426.00	65	431.85	369	437.55	141	469.00	94
426.40	59	432.20	224	438.20	173	475.30	87
427.20	79	432.50	110	438.50	95	479.90	58
427.80	63	433.35	231	439.10	87	483.35	127
428.10	66	433.70	65	439.50	150	493.90	61
428.30	104	433.90	85	441.10	13080		
428.70	51	434.25	189	442.10	84160		
429.50	83	435.10	154	443.15	15562		
430.20	243	435.70	103	444.05	1393		
430.50	102	436.15	259	445.05	203		

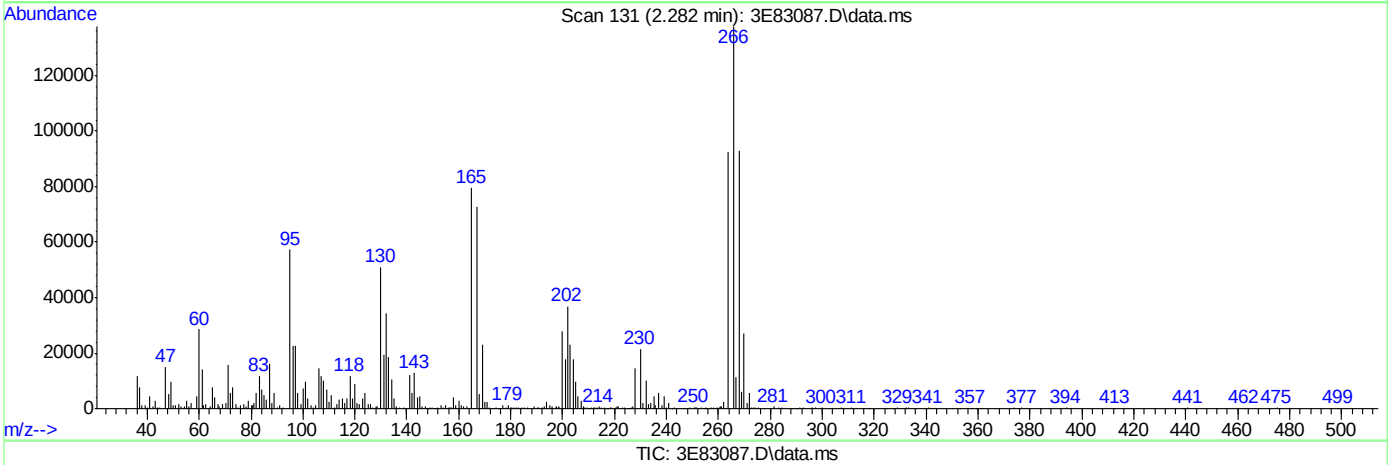
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83087.D
Acq On : 11 May 2016 9:05 am
Operator : ashleyn
Sample : dftpp
Misc : op93596,e3e3643
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 09:17:21 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.282min (-0.139) 77.15ppb

response 120575

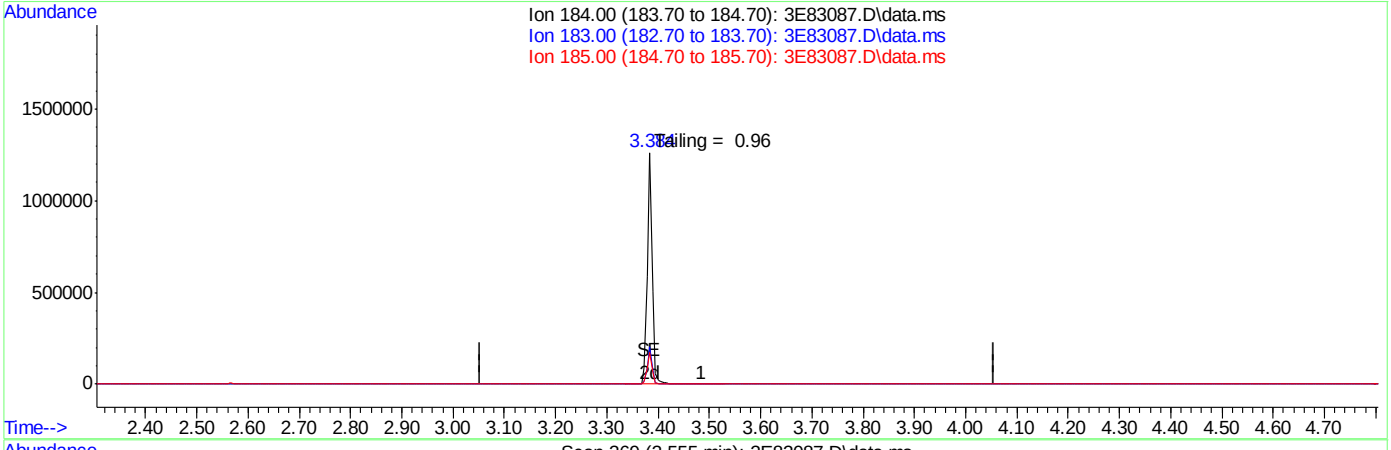
Ion	Exp%	Act%
265.80	100	100
263.80	62.20	67.01
267.80	64.70	67.40
0.00	0.00	0.00

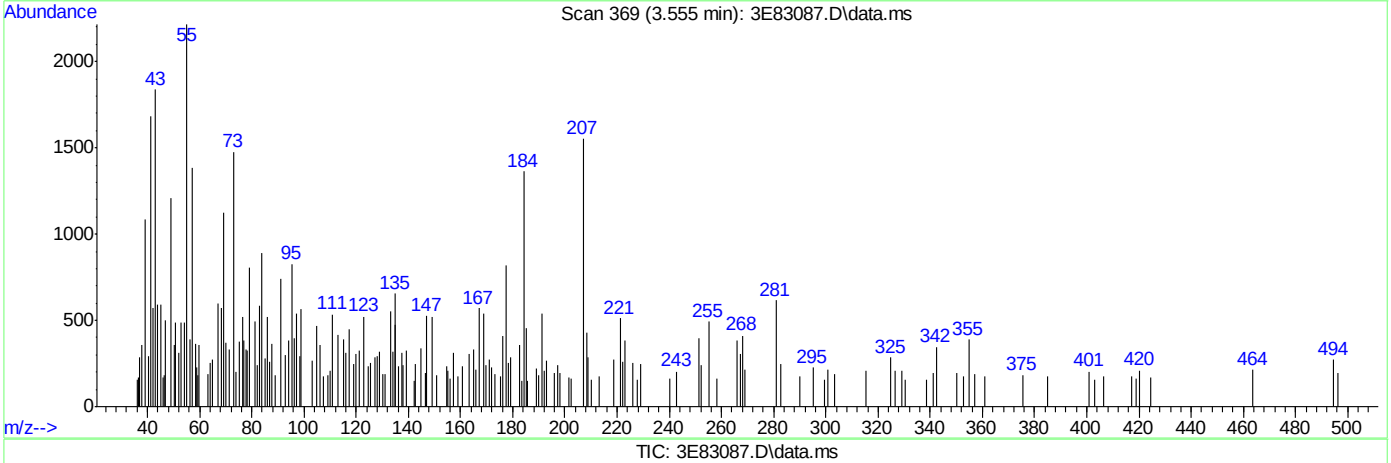
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83087.D
Acq On : 11 May 2016 9:05 am
Operator : ashleyn
Sample : dftpp
Misc : op93596,e3e3643
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 09:17:21 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E83087.D\data.ms

(2) Benzidine (t)

3.555min 0.00ppb d

response 0

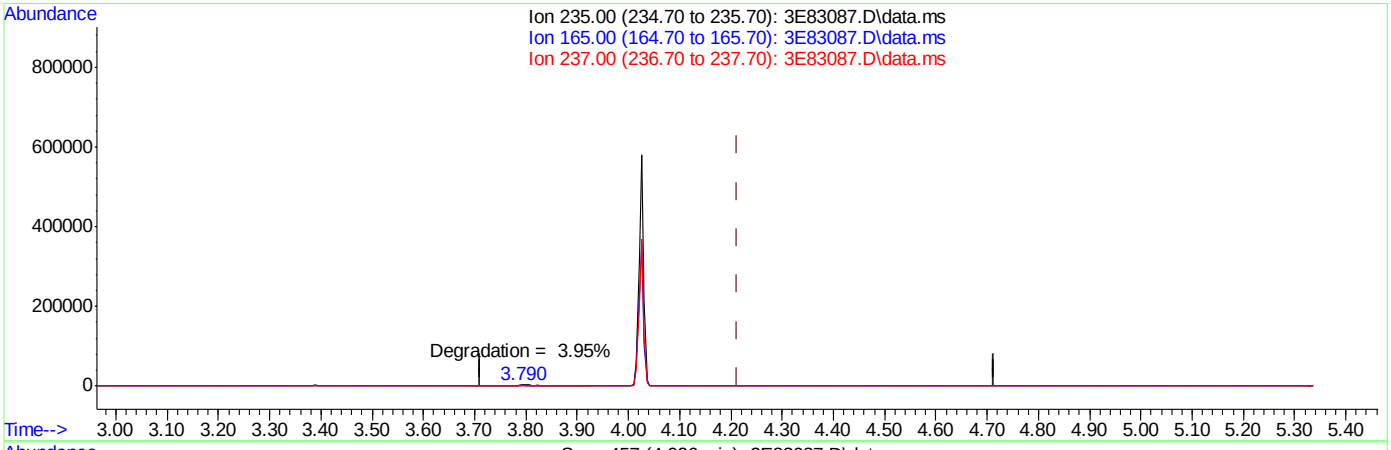
Ion	Exp%	Act%
184.00	100	0.00
183.00	13.20	0.00
185.00	15.40	0.00
0.00	0.00	0.00

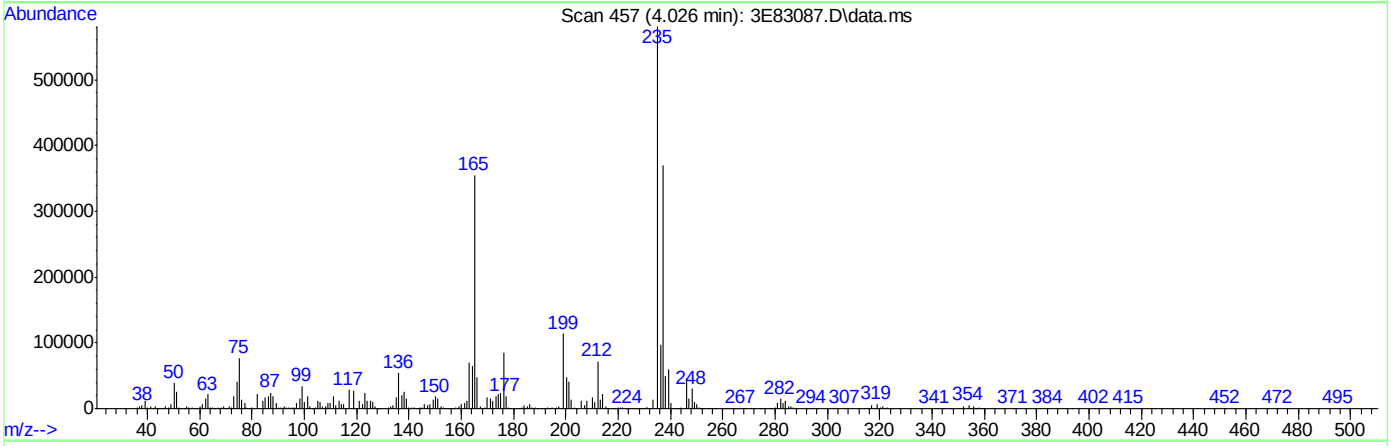
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83087.D
Acq On : 11 May 2016 9:05 am
Operator : ashleyn
Sample : dftpp
Misc : op93596,e3e3643
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 09:17:21 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E83087.D\data.ms

(3) PP-DDT (t)

4.026min (-0.187) 93.29ppb

response 387315

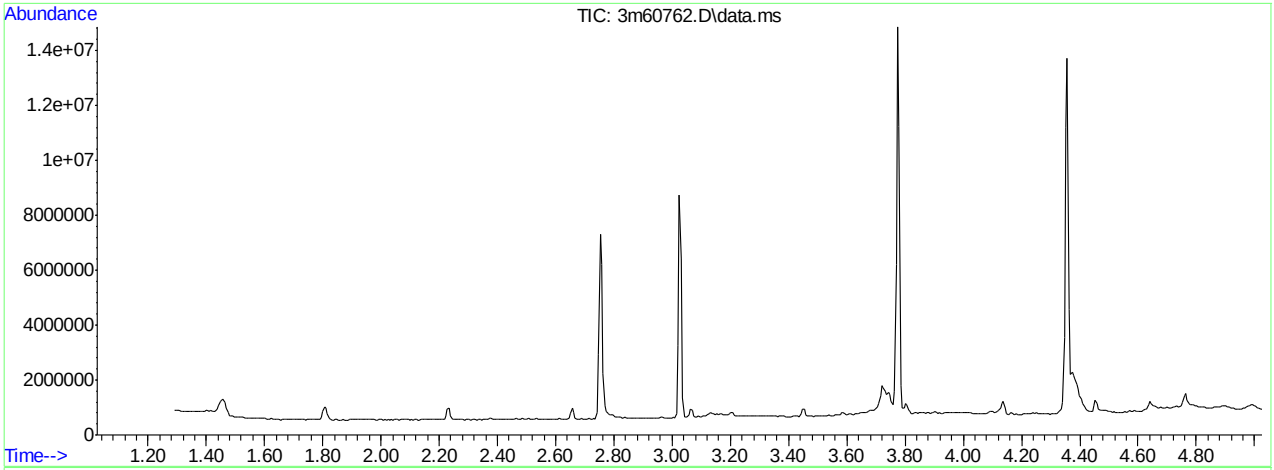
Ion	Exp%	Act%
235.00	100	100
165.00	0.10	62.44#
237.00	0.10	63.36#
0.00	0.00	0.00

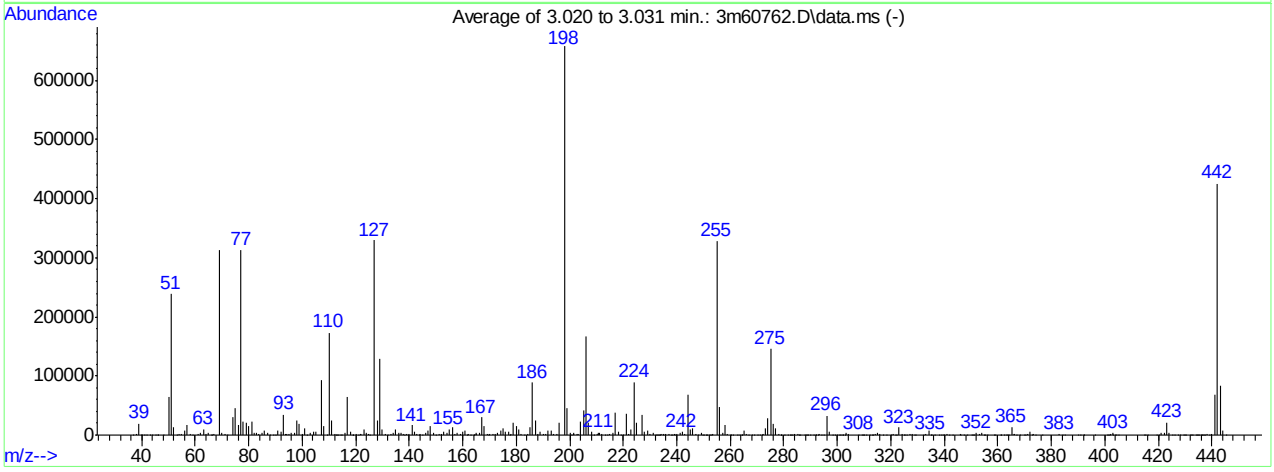
SGS ACCUTEST JC19423

DFTPP

Data File : C:\msdchem\1\DATA\E3M2855\3m60762.D Vial: 1
Acq On : 21 Apr 2016 1:31 pm Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op93052a,e3m2855 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 324, 325, 326; Background Corrected with Scan 320

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.2	238296	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.6	313116	PASS
70	69	0.00	2	1.0	3204	PASS
127	198	40	60	50.1	329840	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	657712	PASS
199	198	5	9	6.9	45100	PASS
275	198	10	30	22.1	145467	PASS
365	198	1	100	2.2	14264	PASS
441	443	0.10	100	81.8	68134	PASS
442	198	40	100	64.7	425304	PASS
443	442	17	23	19.6	83298	PASS

3m60762.D DFTPP3M.M Fri Apr 22 08:16:22 2016 RPT1

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	661	46.20	436	58.95	251	71.05	1475
38.05	2794	48.00	244	61.00	2709	72.05	358
39.00	19760	50.00	65143	62.10	4250	74.05	29550
39.90	449	51.00	238296	63.00	10102	75.00	46243
40.00	755	52.00	12545	64.10	1997	76.10	17126
41.00	329	53.00	307	65.00	4739	77.05	313473
42.00	277	54.15	1115	65.95	419	78.00	22267
43.05	106	55.00	1105	66.20	319	79.00	21188
44.00	839	56.00	7453	66.95	1508	79.95	15917
45.10	137	57.00	17977	69.00	313116	81.00	21946
45.90	229	58.00	1593	70.05	3204	81.95	3804

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.95	3997	93.95	1295	104.05	6580	114.10	398
83.90	2325	94.20	1080	105.00	6653	114.80	426
85.10	3907	95.00	1155	107.00	92226	116.00	4552
85.95	7333	95.95	2921	108.00	15158	117.00	65517
87.05	3225	97.15	3059	109.10	399	117.95	5021
87.95	160	98.00	25203	110.00	173137	118.85	1004
89.00	451	99.00	19270	111.00	25260	119.10	235
90.05	395	100.00	1366	112.05	2622	120.05	1481
90.95	6840	100.95	10715	112.70	729	120.85	926
92.00	6037	101.90	978	113.00	737	121.85	2893
93.00	35134	102.95	4167	113.60	216	122.05	1962

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.00	8863	134.05	4029	143.80	49	154.05	4207
124.00	3789	134.95	9126	144.15	1336	154.95	9598
124.90	2681	136.00	4526	144.90	554	156.05	12971
125.20	659	137.05	4746	146.00	3191	157.05	2135
127.00	329840	137.80	1581	147.00	6974	158.00	2979
127.95	25688	138.05	8	147.95	15969	159.05	1815
129.00	128464	139.15	1213	149.00	3586	160.00	5213
129.95	10423	140.05	2181	149.90	649	160.90	6930
131.00	2043	141.00	16241	151.05	2905	161.80	620
131.90	739	142.05	4918	151.90	1498	162.10	1571
133.10	1078	142.95	2672	152.95	5232	162.90	286

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.00	491	171.95	2596	181.95	1754	193.00	6861
164.10	623	173.05	4093	182.90	780	194.05	2190
164.80	1232	174.05	6735	184.10	2113	195.05	1948
165.00	4676	175.05	10999	185.00	13065	196.00	21652
166.05	4746	176.05	4833	186.00	88408	198.00	657712
166.95	29813	176.95	6189	187.05	24010	199.00	45100
167.95	14663	177.70	742	188.10	2813	200.00	3024
169.05	2335	178.00	1490	188.90	5044	200.70	236
169.70	466	179.00	21463	190.05	1319	201.35	3553
170.15	1305	180.00	14698	191.00	2618	201.65	2514
171.10	1248	181.00	9205	191.95	7793	202.80	1702

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
203.00	2781	213.05	528	224.10	89368	233.80	461
204.10	23086	214.00	433	225.05	21868	234.10	1557
205.10	41149	215.05	1578	227.05	34358	234.80	391
206.05	167835	216.05	4006	228.00	4859	235.05	2665

207.00	21445	217.00	38342	229.00	6933	235.95	2072
208.00	6458	218.05	5162	229.85	1303	237.05	2533
209.00	896	219.20	990	231.00	3173	237.90	238
210.15	1189	220.00	429	231.90	223	238.15	279
210.75	4358	221.05	36080	232.30	136	238.95	1672
211.10	3392	221.80	1095	232.90	149	239.30	482
211.85	2397	223.00	9572	233.10	789	240.10	1273

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
241.05	3311	250.80	152	259.90	493	269.00	206
242.05	4890	251.15	707	260.20	97	270.05	831
243.10	2235	251.95	870	261.00	468	271.05	922
244.10	68677	252.40	139	262.60	86	271.70	207
245.05	9760	252.90	981	263.25	515	272.10	1838
246.00	12142	253.40	1728	264.10	501	273.05	11001
247.00	2344	255.05	329205	264.30	560	274.05	29108
248.00	837	256.00	47298	265.00	7222	275.10	145467
249.05	3015	257.15	4289	265.90	1481	276.05	18900
249.80	449	258.00	17582	266.75	355	277.00	11300
250.25	600	259.00	2516	268.20	147	278.00	1854

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.80	205	287.70	119	294.70	95	303.10	3964
279.15	477	288.15	310	296.05	32985	304.05	1309
280.10	279	288.60	87	297.00	5136	307.90	846
281.60	120	289.15	281	298.10	167	309.00	398
282.10	626	289.95	519	298.90	166	309.70	112
282.90	419	291.10	296	300.00	85	310.15	371
283.10	836	291.80	318	300.90	148	310.95	354
284.15	1540	292.10	662	301.15	590	312.00	87
285.15	2843	292.80	196	301.80	536	312.80	156
285.80	310	293.05	2426	302.10	353	313.10	231
286.10	133	294.10	917	302.80	384	313.95	1898

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
315.00	3718	325.20	137	336.25	305	348.30	141
316.00	2484	325.95	441	338.10	80	350.05	338
317.05	541	327.05	2247	339.00	94	350.60	76
318.20	109	328.00	1248	339.70	149	351.10	136
320.15	285	328.80	179	339.90	100	352.05	3729
321.00	1507	329.20	147	341.00	1301	353.10	2441
321.70	413	332.05	947	341.95	432	354.00	4692
322.00	251	332.95	1265	343.20	134	354.95	265
323.10	12425	334.10	8059	345.90	234	355.20	159
324.15	2124	334.90	772	346.05	2044	356.15	415
324.90	281	335.10	980	347.05	266	358.40	195

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
359.10	253	368.00	93	385.05	288	403.05	3094
360.90	94	369.90	367	390.05	558	403.80	336
361.25	176	370.40	117	391.00	594	404.05	985
362.50	298	371.05	1415	391.90	84	405.05	371
363.10	278	372.10	6694	392.20	500	414.80	78
363.40	159	372.90	577	396.30	97	415.10	95
364.00	309	373.10	1038	400.75	279	416.00	104
365.05	14264	374.00	194	401.20	249	419.25	304
365.90	1395	376.70	189	401.90	271	420.30	329
366.10	1077	382.95	1487	402.05	2235	421.05	4050
366.90	270	384.00	498	402.80	202	422.15	3505

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms

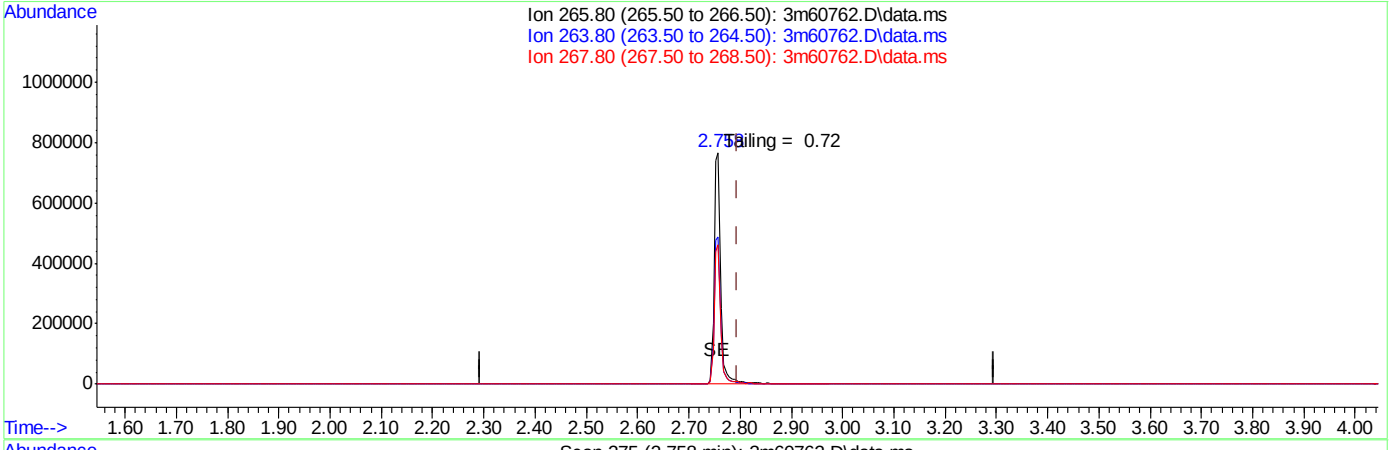
dftpp
Modified:subtracted

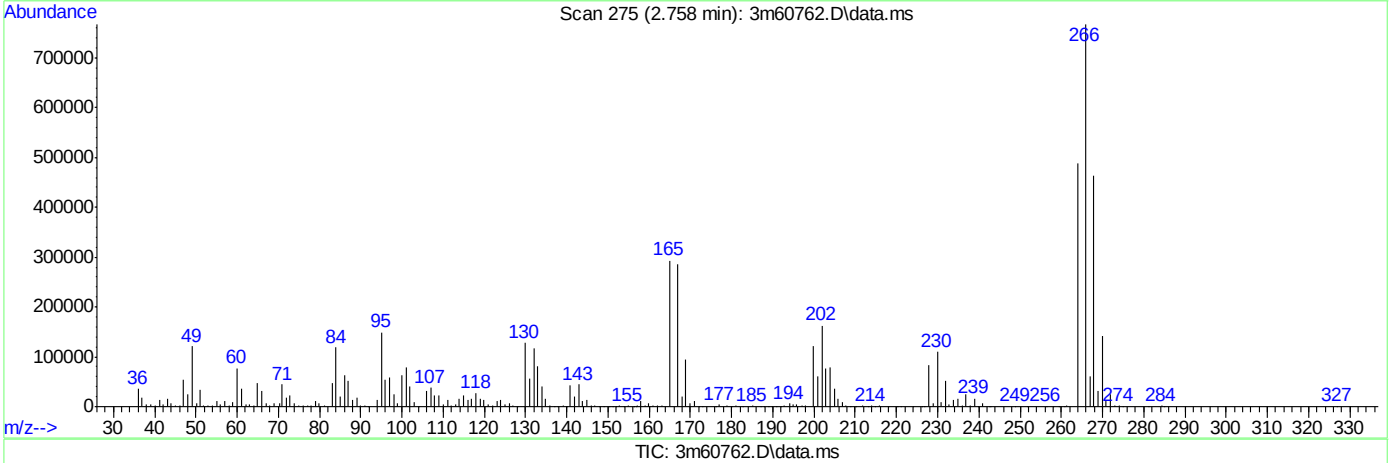
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.10	21736	432.90	494	438.80	912		
424.10	4461	433.85	400	439.90	2031		
425.00	512	434.50	189	441.10	68134		
426.10	183	434.80	226	442.10	425304		
427.20	203	435.40	731	443.10	83298		
428.30	259	435.90	455	444.10	7637		
429.50	82	436.25	476	445.10	306		
429.70	297	436.60	319				
430.25	389	436.95	928				
431.75	392	437.50	435				
432.50	347	438.30	1141				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60762.D
Acq On : 21 Apr 2016 1:31 pm
Operator : linseyk
Sample : dftpp
Misc : op93052a,e3m2855
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 13:36:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m60762.D\data.ms

(1) Pentachlorophenol (t)

2.758min (-0.037) 190.28ppb

response 701808

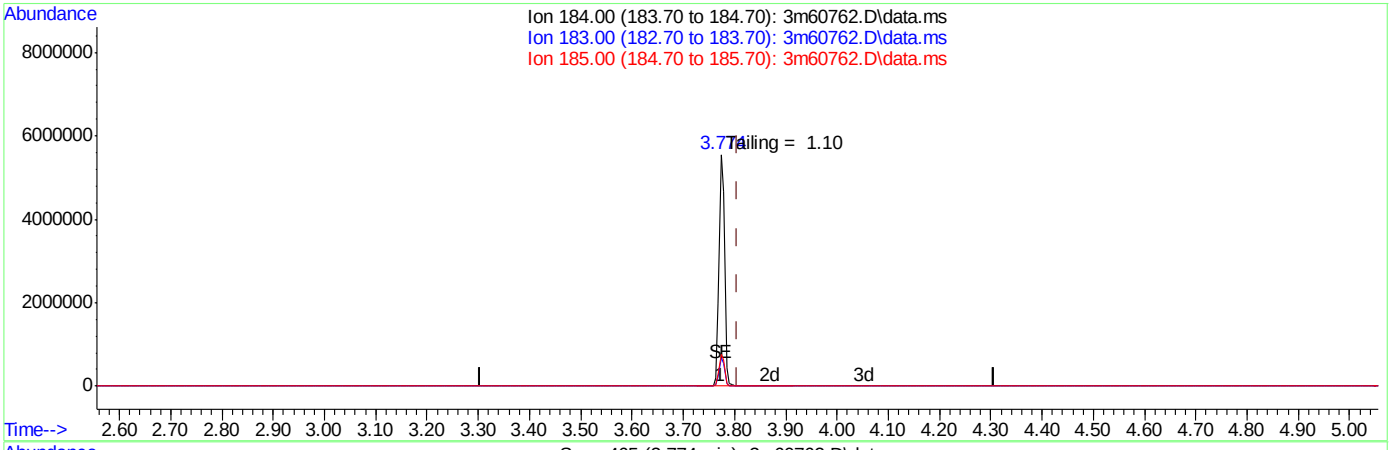
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	63.64
267.80	64.10	60.34
0.00	0.00	0.00

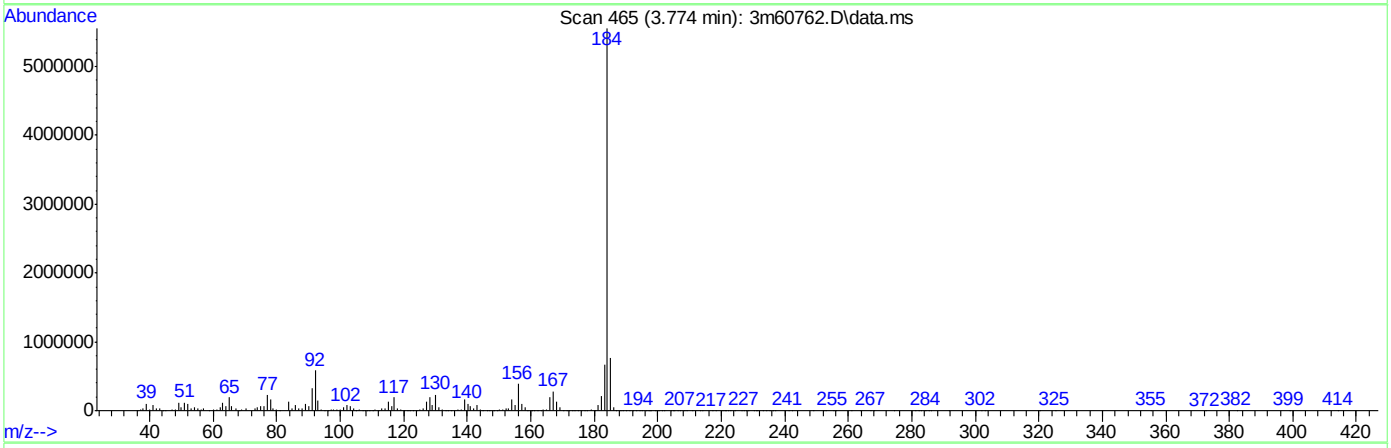
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60762.D
Acq On : 21 Apr 2016 1:31 pm
Operator : linseyk
Sample : dftpp
Misc : op93052a,e3m2855
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 13:36:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m60762.D\data.ms

(2) Benzidine (t)

3.774min (-0.032) 229.17ppb

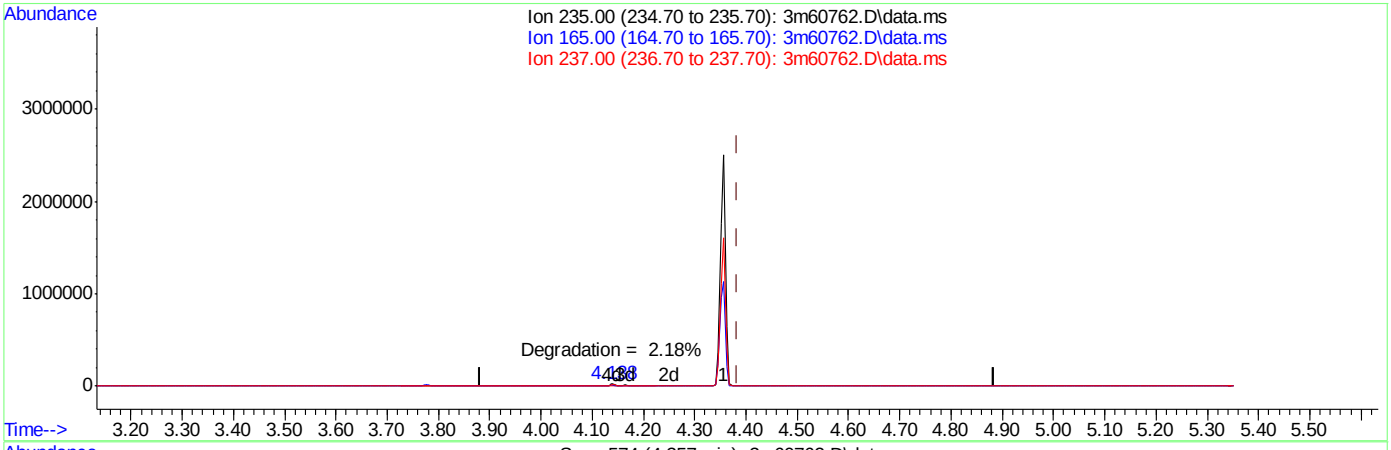
response 4170192

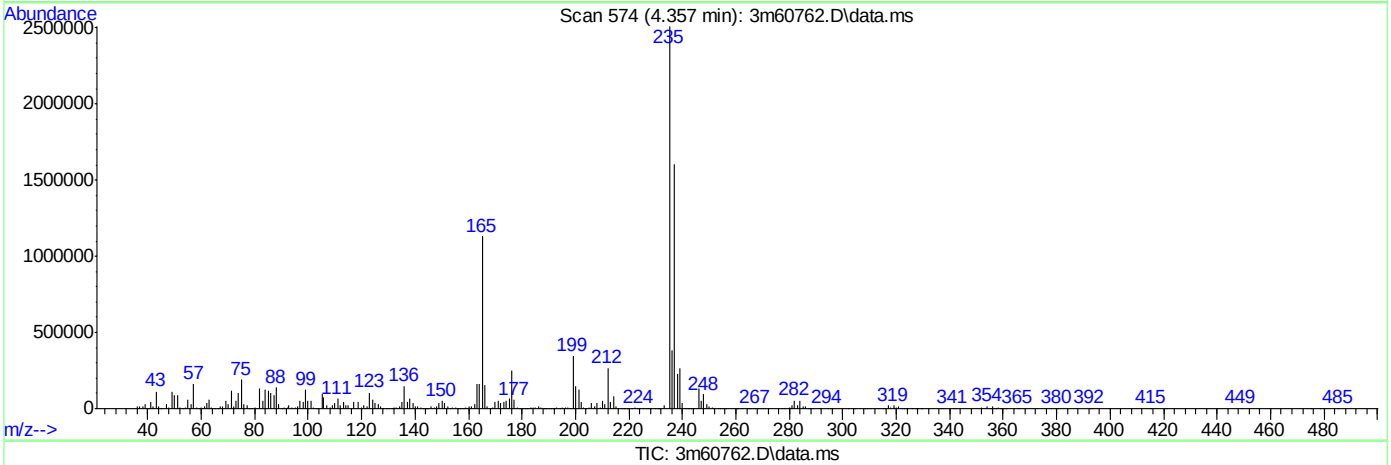
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	12.07
185.00	14.40	13.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60762.D
Acq On : 21 Apr 2016 1:31 pm
Operator : linseyk
Sample : dftpp
Misc : op93052a,e3m2855
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 13:36:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m60762.D\data.ms

(3) PP-DDT (t)

4.357min (-0.027) 229.70ppb

response 1710972

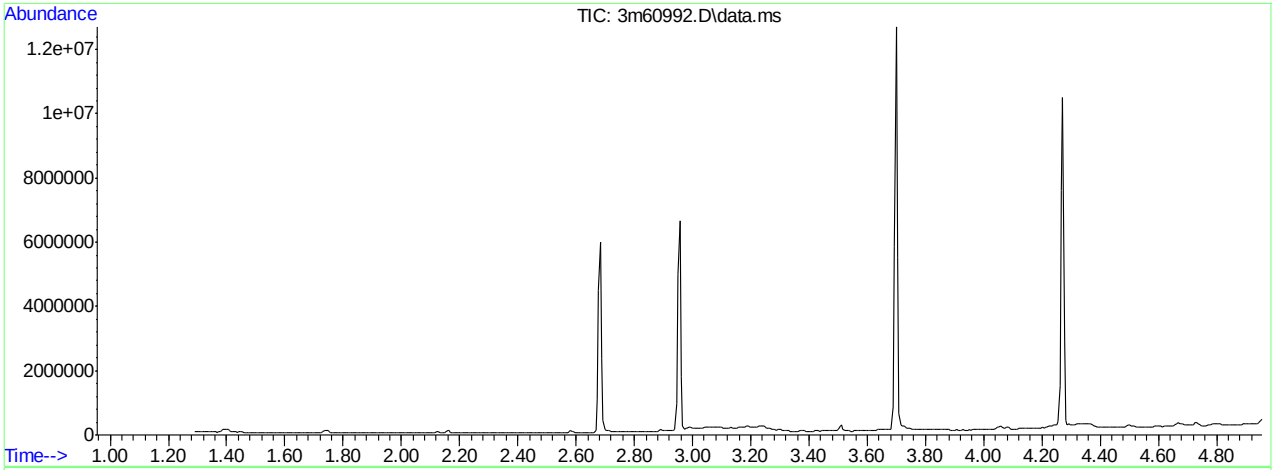
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	48.45#
237.00	0.00	63.48#
0.00	0.00	0.00

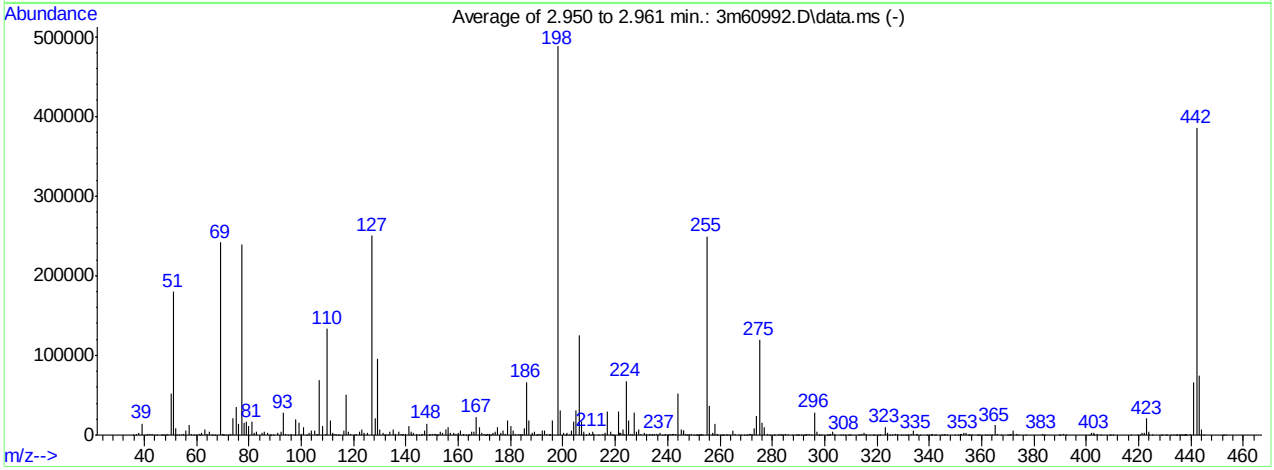
SGS ACCUTEST JC19423

DFTPP

Data File : C:\msdchem\1\DATA\E3M2868\3m60992.D Vial: 1
Acq On : 2 May 2016 12:38 pm Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op93422a,e3m2868 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 311, 312, 313; Background Corrected with Scan 306

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.9	179815	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.5	241430	PASS
70	69	0.00	2	0.4	942	PASS
127	198	40	60	51.3	250296	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	487595	PASS
199	198	5	9	6.4	31373	PASS
275	198	10	30	24.5	119549	PASS
365	198	1	100	2.6	12436	PASS
441	443	0.10	100	87.9	65712	PASS
442	198	40	100	79.0	385280	PASS
443	442	17	23	19.4	74797	PASS

3m60992.D DFTPP3M.M Mon May 02 15:10:58 2016 RPT1

Average of 2.950 to 2.961 min.: 3m60992.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	479	46.90	461	55.05	1712	64.95	3694
36.95	1533	47.10	381	55.95	5801	65.70	426
38.05	3014	47.80	34	57.00	12799	66.10	161
39.05	14809	48.05	530	57.90	847	67.05	481
40.20	539	49.00	2055	58.95	493	69.00	241430
41.10	754	50.05	52032	59.90	559	69.90	942
41.95	1504	51.00	179815	61.00	1893	70.10	168
43.00	1619	52.00	8687	61.20	451	70.30	234
44.00	71	52.20	581	62.00	2944	71.10	651
44.90	271	53.05	662	63.00	7617	72.20	229
46.20	121	54.00	580	64.10	1127	73.10	1587

Average of 2.950 to 2.961 min.: 3m60992.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
74.00	21483	85.90	3703	97.20	467	107.00	68503
75.05	35686	86.95	2640	97.95	20169	108.00	11758
76.10	13891	87.90	55	99.00	15072	109.20	816
77.05	238892	88.30	315	99.85	1626	110.00	133529
78.00	15467	89.05	601	101.00	9403	111.00	18142
79.00	16549	91.00	3550	102.05	738	111.90	2597
80.00	11469	92.05	4670	102.90	3455	112.10	376
81.00	16522	93.00	27890	103.95	4985	112.85	1034
82.00	3485	93.95	1082	105.00	6213	113.10	117
83.00	3688	95.00	631	105.90	1265	114.10	235
85.00	2718	96.00	809	106.10	365	114.40	127

Average of 2.950 to 2.961 min.: 3m60992.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.10	4997	128.05	20817	136.15	1938	144.95	630
117.00	51260	128.95	95720	137.10	4932	145.60	393
117.95	4279	130.00	6825	138.10	897	146.15	2106
119.00	1486	131.05	3173	138.60	93	147.00	5774
120.10	713	131.70	369	139.10	1035	147.95	14283
121.00	813	132.00	330	139.95	1465	148.80	522
122.05	4632	132.20	484	141.00	11353	149.05	1866
122.95	6818	133.00	235	141.90	3885	150.05	898
124.00	2486	134.00	3570	142.05	160	151.05	1740
125.05	3422	135.00	7589	142.95	2386	151.50	1164
127.00	250296	135.90	1047	144.00	875	151.80	508

Average of 2.950 to 2.961 min.: 3m60992.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.10	461	162.00	797	170.10	227	178.05	1214
152.95	3597	162.95	566	170.70	259	179.00	18261
154.05	3473	163.80	223	171.10	1344	180.05	11605
155.10	6755	164.00	508	171.30	296	181.00	5452
156.00	10076	164.20	100	171.90	1810	181.95	880
157.05	3255	165.00	4628	172.20	257	182.95	1463
158.05	2546	166.05	3787	173.05	2967	183.90	1418
159.00	977	167.00	22762	173.95	4680	184.30	263
160.00	3091	168.05	9796	175.05	9615	185.10	9131
161.00	5940	169.05	2419	176.15	3014	186.00	66285
161.80	706	169.85	898	176.95	5302	187.05	17801

Average of 2.950 to 2.961 min.: 3m60992.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.05	2217	195.15	1443	205.10	30570	215.95	2384
188.25	175	196.05	17966	206.10	125686	217.00	29477
189.10	3901	198.00	487595	207.10	16694	218.00	4198
189.80	586	199.00	31373	208.05	4141	218.70	112

190.05	591	200.05	2369	208.95	376	219.05	695
190.90	1364	200.90	684	210.05	2708	221.00	29657
191.10	1888	201.10	522	210.40	526	221.80	3010
192.00	6197	201.70	3302	211.15	4497	222.00	3120
193.05	6022	202.15	132	211.70	1218	223.00	6577
193.95	1856	203.05	4991	213.45	359	223.20	1280
194.70	254	204.00	16487	215.05	2136	224.10	67560

Average of 2.950 to 2.961 min.: 3m60992.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.05	17925	233.90	663	240.95	1826	249.05	1648
226.00	814	234.10	1480	241.90	1849	249.80	204
226.20	513	234.90	1660	242.10	2065	250.70	172
227.00	28215	235.90	1010	243.10	1967	251.20	704
228.00	3686	236.20	458	244.10	51731	251.60	261
229.05	6478	237.00	2316	245.05	7597	251.95	427
229.95	1451	238.10	242	245.90	4995	252.20	432
231.10	2536	238.60	87	246.10	5293	252.70	108
232.10	809	239.05	1383	247.00	1552	253.05	2048
232.80	160	239.90	721	247.20	253	253.30	295
233.10	786	240.20	238	248.20	861	255.00	248976

Average of 2.950 to 2.961 min.: 3m60992.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.05	37059	262.80	142	272.20	270	282.90	932
257.00	3000	263.60	500	273.05	8601	283.30	229
257.20	629	265.00	5749	274.10	24031	283.75	653
258.00	13871	265.95	1370	275.05	119549	284.00	555
258.90	732	267.10	372	276.10	15467	285.10	1878
259.10	1358	268.00	159	277.00	9800	286.10	339
260.20	322	269.00	354	278.00	1601	287.70	212
260.50	192	269.85	372	279.15	241	288.80	297
260.95	712	270.50	144	280.60	122	289.20	85
261.60	105	271.20	1024	280.80	187	289.90	281
262.15	86	271.80	817	282.00	304	290.40	320

Average of 2.950 to 2.961 min.: 3m60992.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
291.05	216	298.90	82	309.50	121	320.95	751
291.80	304	301.00	432	309.95	413	321.20	294
292.50	272	301.20	156	312.85	451	323.10	10365
292.90	680	301.80	183	313.20	236	324.05	2208
293.10	1501	302.10	1212	314.05	1940	324.95	199
294.20	917	303.05	4077	315.05	3010	325.85	243
294.90	192	303.95	1168	316.10	2143	326.85	1399
296.00	28822	306.00	150	317.00	213	327.05	866
297.05	3963	306.95	218	318.50	111	327.85	849
297.90	259	307.70	424	319.10	175	329.05	279
298.10	324	309.00	336	320.10	171	330.20	90

Average of 2.950 to 2.961 min.: 3m60992.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
331.00	135	340.90	267	351.95	1405	361.50	212
331.70	207	341.05	980	352.20	1647	362.20	250
331.95	721	342.10	94	353.05	2563	363.10	493
333.15	1867	342.60	115	354.10	3397	363.95	387
334.10	5925	344.80	237	354.80	175	365.00	12436
335.00	542	345.10	110	355.10	615	366.00	1647
335.15	1538	345.90	442	355.50	130	367.40	130
336.25	163	346.10	1852	356.20	82	369.90	290
339.00	377	346.90	446	358.45	240	370.10	224
339.90	385	349.90	105	358.80	78	370.60	182
340.60	303	351.15	593	359.25	329	371.00	864

Average of 2.950 to 2.961 min.: 3m60992.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
372.15	5613	400.95	427	420.25	281	432.30	75
373.10	1404	402.05	2179	421.10	3007	433.10	544
373.80	121	402.80	435	422.05	3158	434.10	173
376.75	236	403.05	2765	423.10	20538	434.40	226
383.00	1516	404.05	1284	423.90	470	434.70	100
383.80	76	405.30	139	424.00	3813	435.60	213
384.10	99	409.00	84	425.15	747	436.00	465
389.60	100	409.30	222	428.50	77	436.30	330
390.10	674	410.30	161	428.80	75	436.80	259
391.10	772	417.10	75	430.10	100	437.10	611
392.15	339	419.55	270	430.75	226	437.40	337

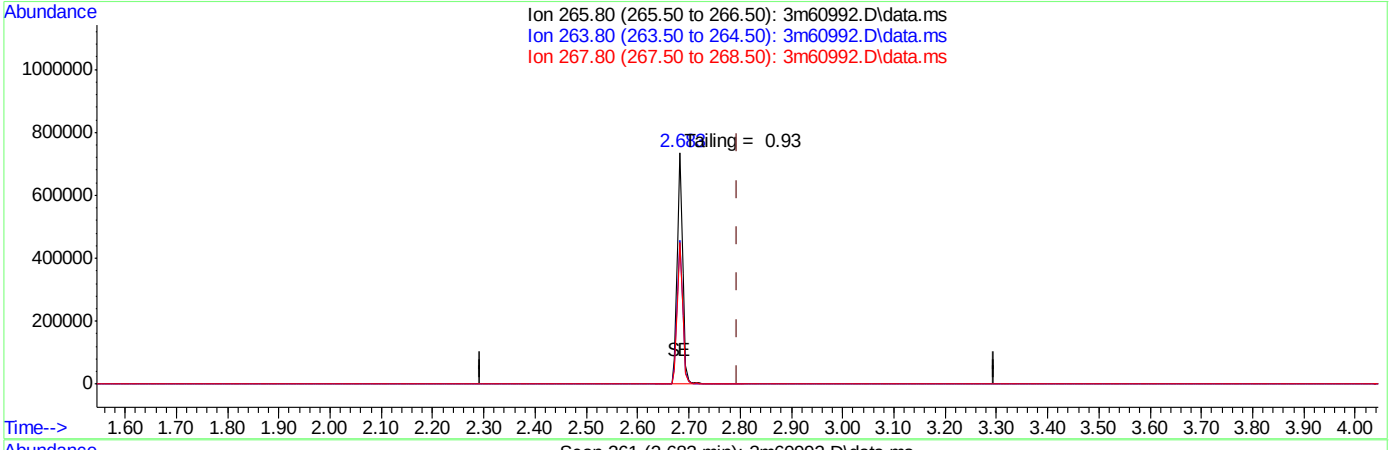
Average of 2.950 to 2.961 min.: 3m60992.D\data.ms
dftpp
Modified:subtracted

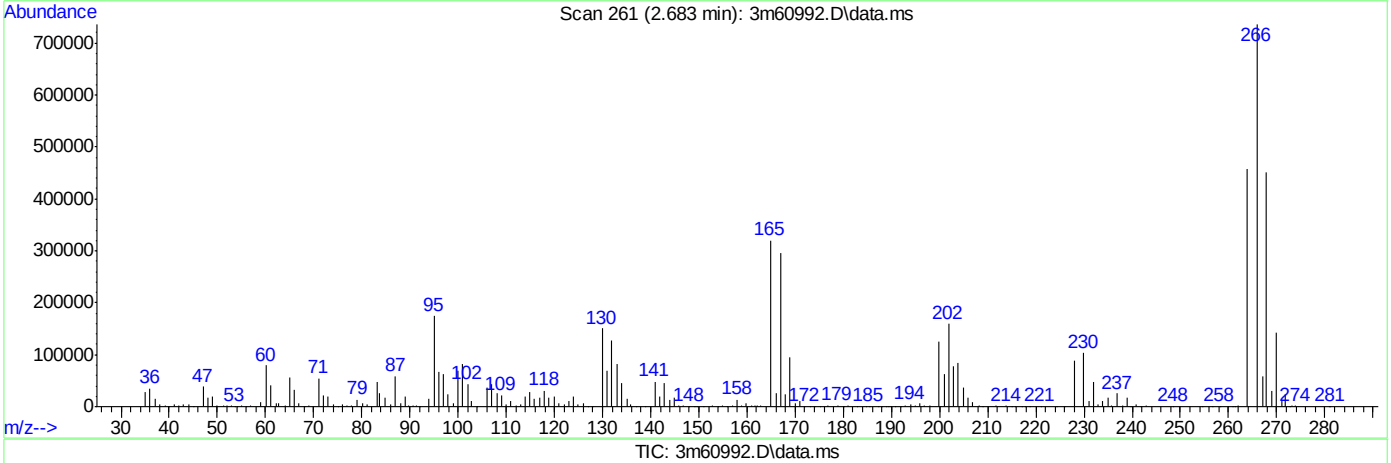
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
437.70	243	452.50	153				
437.90	362	453.25	227				
438.15	1770						
438.50	651						
439.55	1213						
441.10	65712						
442.10	385280						
443.10	74797						
444.10	7024						
444.95	301						
452.30	115						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m60992.D
Acq On : 2 May 2016 12:38 pm
Operator : linseyk
Sample : dftpp
Misc : op93422a,e3m2868
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 12:42:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m60992.D\data.ms

(1) Pentachlorophenol (t)

2.683min (-0.112) 148.31ppb

response 546995

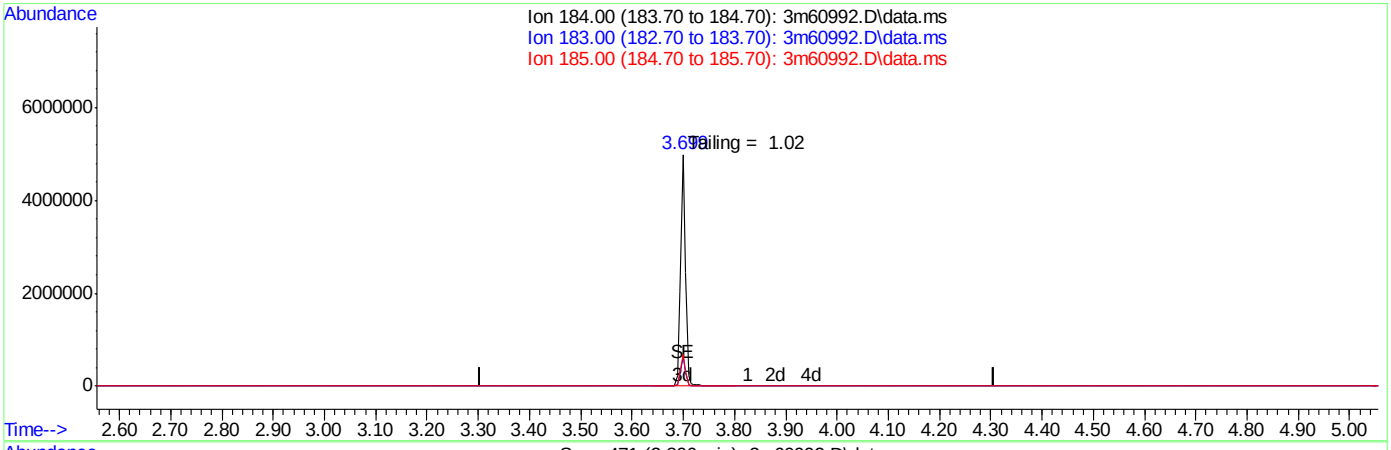
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	62.15
267.80	64.10	61.32
0.00	0.00	0.00

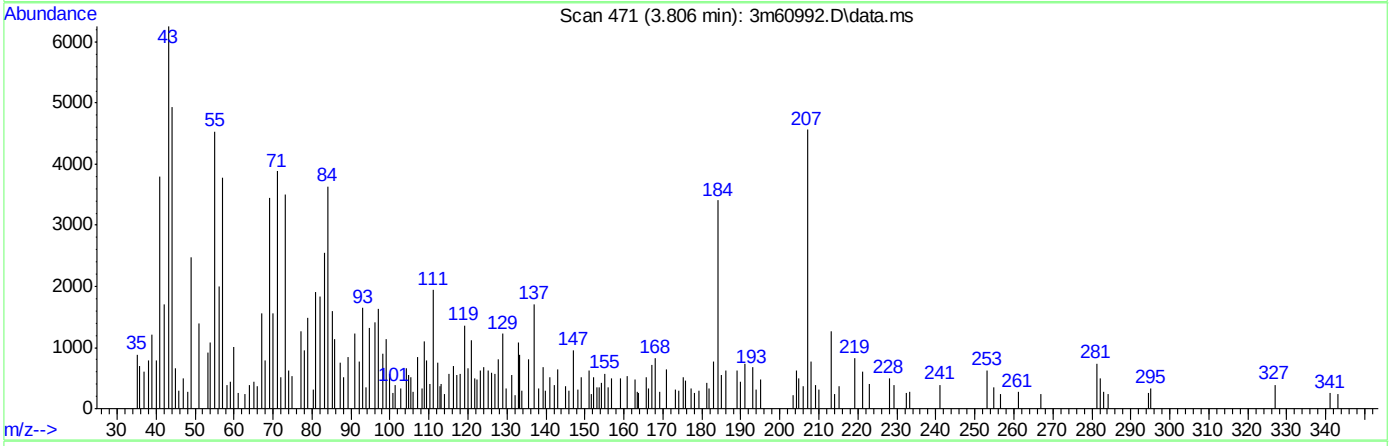
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m60992.D
Acq On : 2 May 2016 12:38 pm
Operator : linseyk
Sample : dftpp
Misc : op93422a,e3m2868
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 12:42:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m60992.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

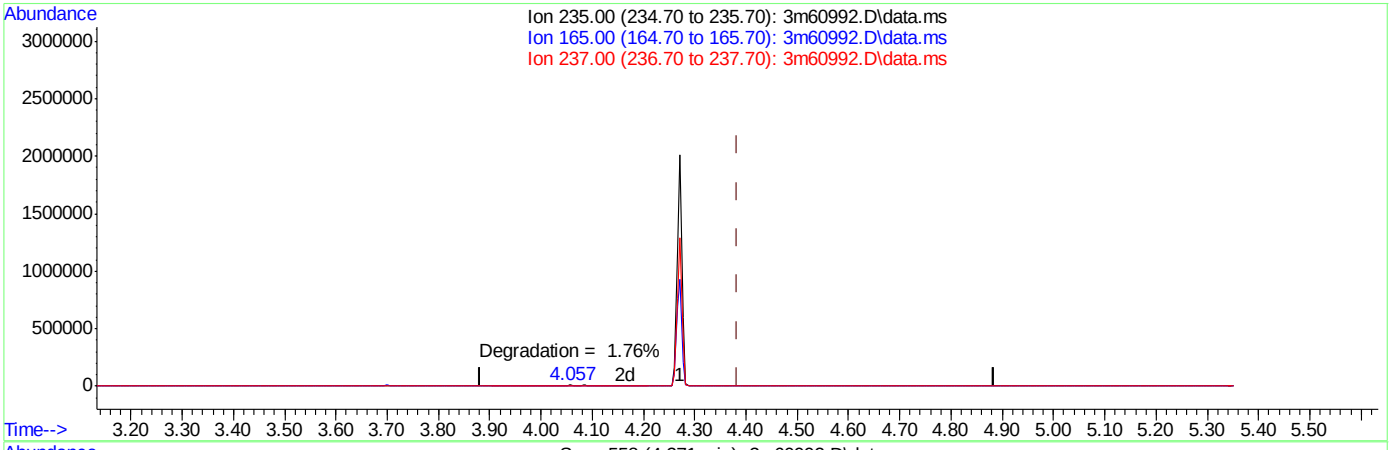
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

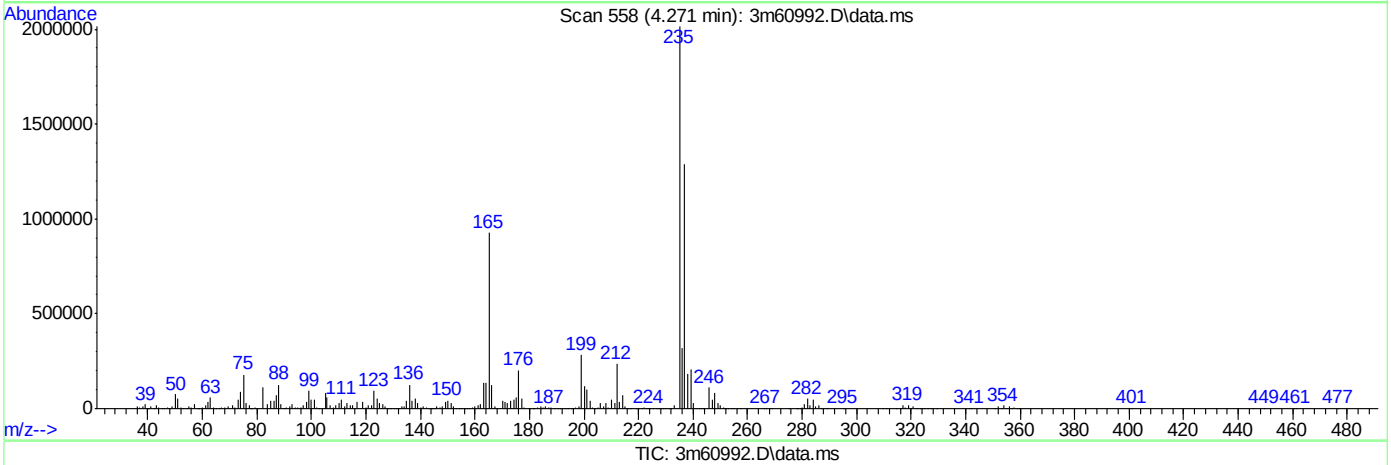
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m60992.D
Acq On : 2 May 2016 12:38 pm
Operator : linseyk
Sample : dftpp
Misc : op93422a,e3m2868
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 12:42:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m60992.D\data.ms

(3) PP-DDT (t)

4.271min (-0.112) 172.10ppb

response 1281933

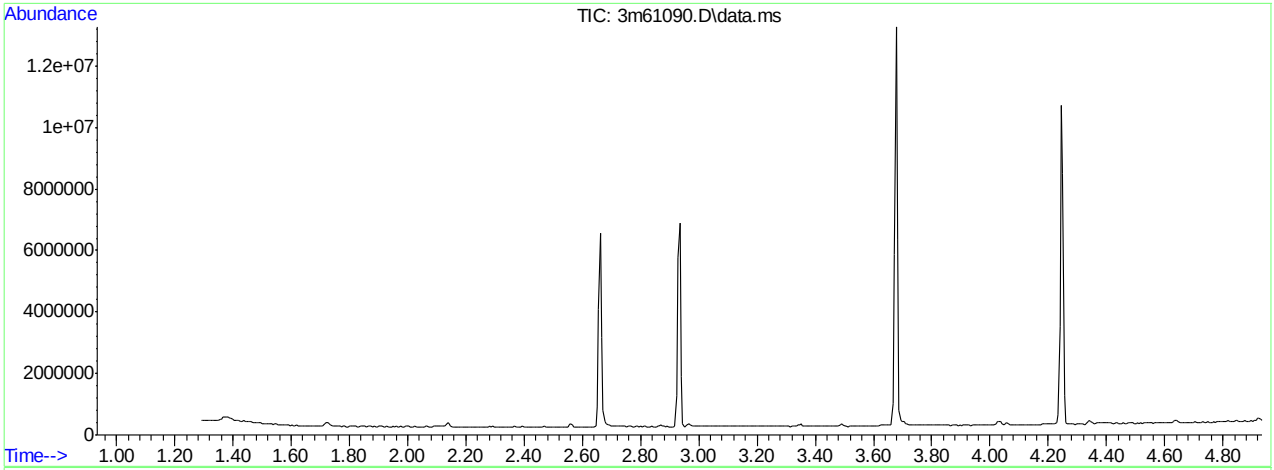
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	48.89#
237.00	0.00	64.39#
0.00	0.00	0.00

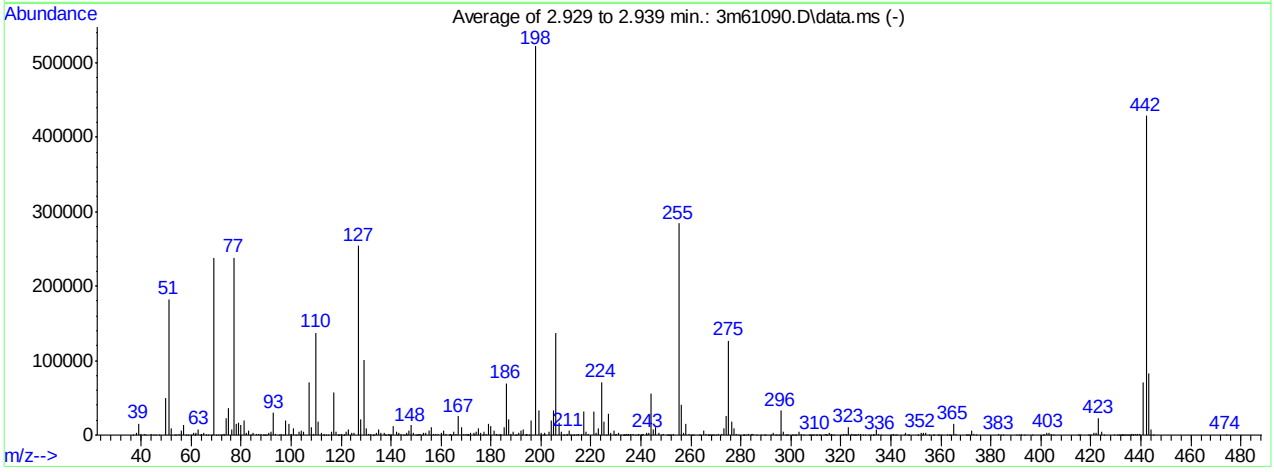
SGS ACCUTEST JC19423

DFTPP

Data File : C:\msdchem\1\DATA\E3M2872\3m61090.D Vial: 1
Acq On : 5 May 2016 11:54 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op93609a,e3m2872 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 307, 308, 309; Background Corrected with Scan 302

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.0	182637	PASS
68	69	0.00	2	0.0	20	PASS
69	198	0.00	100	45.7	238356	PASS
70	69	0.00	2	0.3	792	PASS
127	198	40	60	48.7	254107	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	521835	PASS
199	198	5	9	6.5	33713	PASS
275	198	10	30	24.3	126779	PASS
365	198	1	100	2.8	14515	PASS
441	443	0.10	100	84.6	70469	PASS
442	198	40	100	82.1	428309	PASS
443	442	17	23	19.4	83293	PASS

3m61090.D DFTPP3M.M Thu May 05 17:47:32 2016 RPT1

Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	744	51.00	182637	61.50	206	70.95	628
38.05	2600	52.05	9819	62.00	3399	71.80	262
39.00	15097	53.20	587	63.00	8149	72.05	154
39.95	829	53.90	287	63.70	182	73.00	70
41.05	1255	55.00	1057	63.95	1369	73.15	1820
41.90	679	56.00	5588	65.00	3489	74.00	22931
43.90	875	57.00	14127	66.05	636	75.00	36254
44.95	253	57.95	547	67.00	678	76.20	7208
45.90	227	58.95	167	68.10	20	77.00	238414
46.95	498	60.05	789	68.95	238356	77.95	15755
50.00	50259	60.95	2588	70.00	792	78.95	16251

Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	13142	89.30	199	99.00	15679	110.00	137699
81.00	18943	89.90	87	100.00	1523	111.00	17551
82.00	2359	90.10	94	100.95	9066	112.00	2420
82.20	2180	91.00	3692	102.00	719	112.85	389
83.05	6617	92.00	4961	102.95	3988	113.10	540
83.95	107	93.00	29419	103.70	462	113.90	181
85.00	2845	93.85	1460	104.00	5801	114.95	521
85.90	2317	95.05	478	105.00	4731	116.05	4143
87.00	1768	96.05	1659	107.00	71511	117.00	56769
87.90	1010	96.95	290	108.05	10972	117.90	4124
89.00	326	97.90	19038	109.00	1508	118.80	585

Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.00	442	129.00	101521	137.90	709	145.20	196
119.30	120	129.95	9137	138.85	990	146.00	2441
120.15	1079	130.90	1891	139.10	106	146.30	255
121.00	38	132.05	960	139.60	102	147.00	5879
121.30	108	132.80	179	139.90	729	148.00	13077
121.95	5167	133.10	671	141.00	12481	149.05	2858
122.95	7123	134.05	2648	142.05	4450	149.70	316
124.05	3544	135.00	7825	142.60	330	150.10	650
125.05	3634	136.05	3276	143.00	2839	150.70	249
127.00	254107	137.05	3837	144.05	1101	151.15	2125
128.00	20423	137.70	588	144.90	595	151.70	1448

Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.30	535	163.05	682	171.05	1285	180.00	12322
153.05	3565	163.90	852	171.90	2417	181.05	6146
154.05	3823	164.20	606	172.95	2948	181.90	109
155.05	6431	165.05	5152	173.20	227	182.20	812
156.05	10039	165.95	1961	174.10	4513	183.00	343
157.10	1880	167.00	25542	175.00	9697	183.30	492
158.00	1698	168.00	10947	176.00	3343	184.05	917
159.00	2036	169.05	2239	176.60	491	185.05	9923
160.00	3506	169.85	1035	177.00	5200	186.00	69992
161.05	6687	170.30	420	178.00	1782	187.05	20551
162.10	1904	170.70	368	179.00	15743	188.00	2069

Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
189.00	4065	195.95	19197	207.00	16909	213.95	102
189.90	589	198.00	521835	207.95	4238	214.70	716
190.10	442	198.95	33713	209.00	718	215.05	1490
191.00	2381	200.00	3204	209.10	291	216.00	991

192.00	6116	200.90	291	210.15	2284	217.00	32061
192.20	479	201.25	148	210.40	397	218.00	3849
193.00	7030	201.55	3444	211.05	5704	219.10	836
193.80	673	203.05	4357	211.90	144	221.00	32122
194.10	1798	204.00	19591	212.20	225	221.80	2717
194.40	222	205.10	32723	212.85	48	223.05	8436
195.10	144	206.10	136923	213.20	283	224.10	71493

Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.10	18259	233.30	77	239.00	1293	247.00	2359
226.10	427	233.70	102	239.85	437	248.10	682
227.00	28635	234.05	1809	240.10	653	248.95	1796
227.90	3628	234.40	85	240.30	280	250.10	259
229.00	6145	234.80	512	241.00	1943	250.60	496
229.70	239	235.00	1438	242.00	2741	251.20	224
230.05	1222	235.70	227	242.20	413	251.70	219
231.05	2697	236.00	1486	243.10	3539	251.90	531
232.05	435	236.95	2316	244.10	55573	252.95	1001
232.90	218	237.90	726	245.10	7702	255.00	284192
233.10	372	238.50	101	246.00	11222	256.00	40982

Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
257.00	3679	267.00	433	275.05	126779	284.15	862
258.05	15335	267.30	106	276.10	17750	284.95	2141
259.05	2326	267.80	180	277.05	9671	286.00	117
259.95	568	268.10	189	277.95	1794	287.80	182
260.60	193	268.70	116	279.00	484	289.15	659
261.05	432	269.00	126	280.60	84	289.90	449
263.10	273	270.15	438	281.10	238	292.00	604
263.60	329	270.80	990	281.30	172	293.05	2803
265.00	6431	272.05	853	281.95	576	293.95	529
265.90	840	273.00	8970	283.05	1090	294.20	279
266.80	102	274.05	25769	283.70	152	295.10	428

Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
296.00	32888	305.10	110	313.90	649	321.90	931
297.05	4142	307.25	199	314.10	954	322.20	293
297.80	274	307.80	103	314.50	451	323.10	11071
298.30	266	308.10	381	315.10	3258	324.10	1787
298.80	79	308.75	183	315.80	244	324.80	95
300.35	182	309.20	178	316.05	1967	325.05	213
301.05	468	309.75	396	316.30	360	325.70	120
301.80	262	310.20	184	317.00	216	325.95	216
301.95	462	311.10	76	320.00	270	327.00	2314
303.05	3881	311.80	104	320.50	110	327.95	970
303.95	1239	313.00	327	321.20	1230	328.95	459

Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
329.70	79	341.05	1103	353.15	2472	365.00	14515
331.10	201	341.85	280	354.10	3831	366.00	1795
331.90	651	342.20	399	355.10	782	370.00	502
332.60	292	345.20	88	357.00	76	370.65	372
332.90	764	345.95	2432	357.20	80	371.00	444
333.10	393	346.85	397	359.00	294	371.20	194
334.05	7058	347.20	107	359.20	99	372.05	6608
335.05	2170	350.70	89	360.15	278	373.00	1508
335.80	177	350.90	89	362.40	141	374.00	304
339.95	59	352.05	3786	363.20	120	383.20	1240
340.90	282	352.70	308	363.70	329	384.05	453

Average of 2.929 to 2.939 min.: 3m61090.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
384.70	102	404.10	1314	424.10	4163	433.65	430
390.05	677	405.00	102	425.00	523	434.20	260
391.05	569	414.90	99	429.20	255	434.60	146
391.90	199	415.30	121	430.50	135	434.85	672
392.10	255	416.00	141	431.00	130	435.50	285
393.20	97	418.70	250	431.50	199	435.85	737
396.70	87	419.20	78	431.80	133	436.35	834
400.80	86	419.90	125	432.20	97	436.80	205
401.15	509	421.05	3209	432.50	434	437.00	292
402.10	2459	422.15	3764	432.90	252	437.70	1067
403.00	3625	423.10	22698	433.20	126	438.20	321

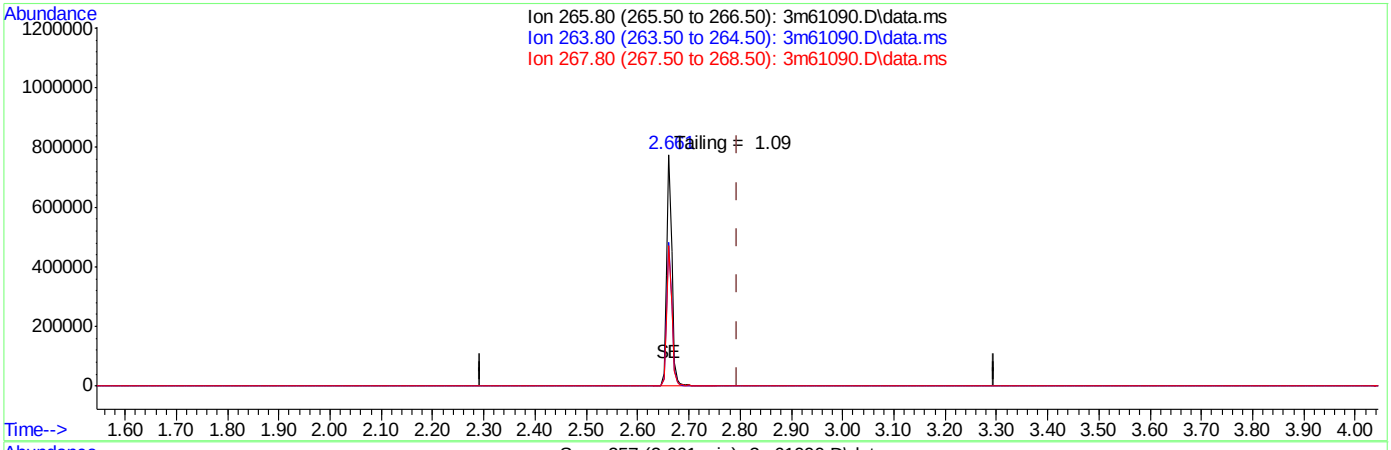
Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

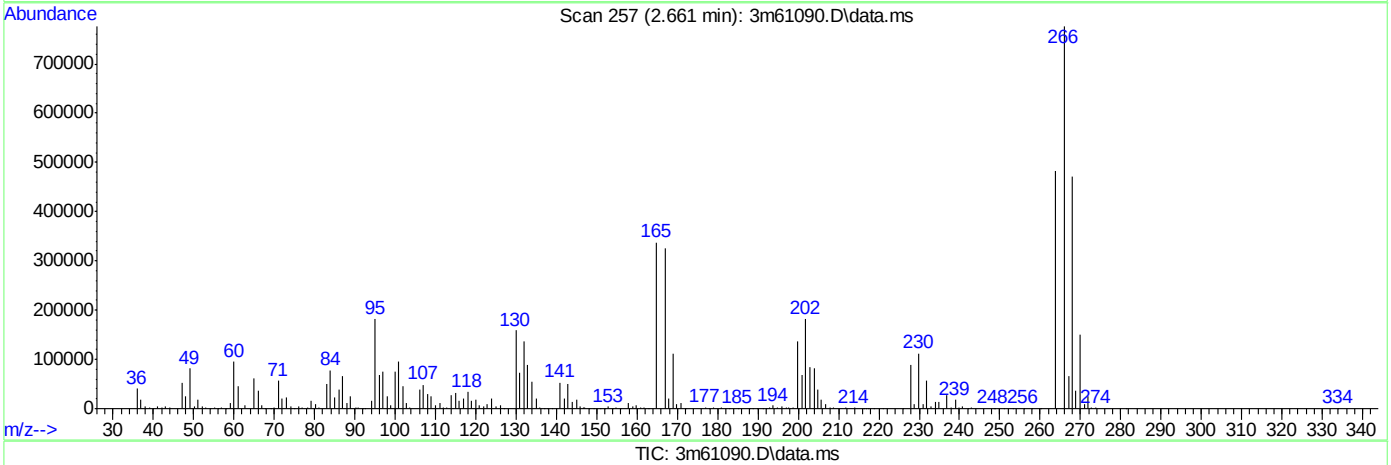
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
438.75	1603						
439.45	1936						
441.10	70469						
442.10	428309						
443.10	83293						
444.10	7896						
445.05	369						
473.90	100						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61090.D
Acq On : 5 May 2016 11:54 am
Operator : linseyk
Sample : dftpp
Misc : op93609a,e3m2872
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 05 11:58:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61090.D\data.ms

(1) Pentachlorophenol (t)

2.661min (-0.134) 154.27ppb

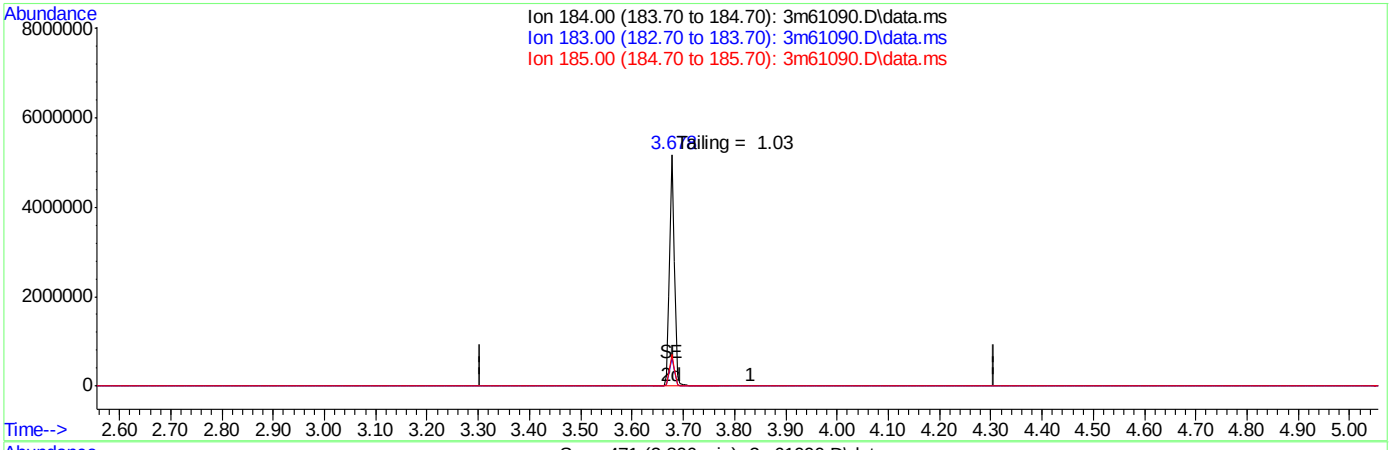
response 568985

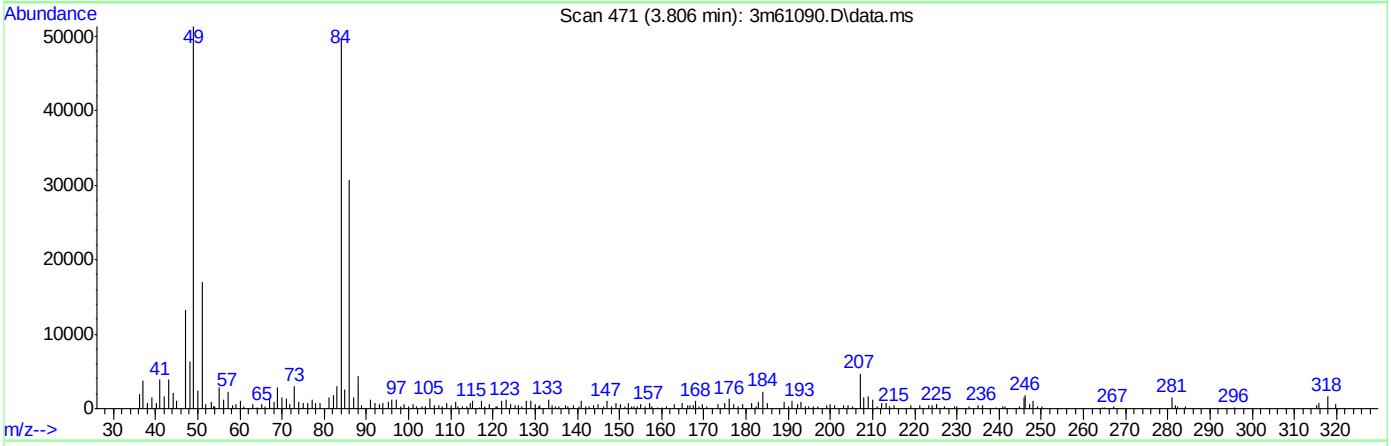
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	62.10
267.80	64.10	60.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61090.D
Acq On : 5 May 2016 11:54 am
Operator : linseyk
Sample : dftpp
Misc : op93609a,e3m2872
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 05 11:58:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61090.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

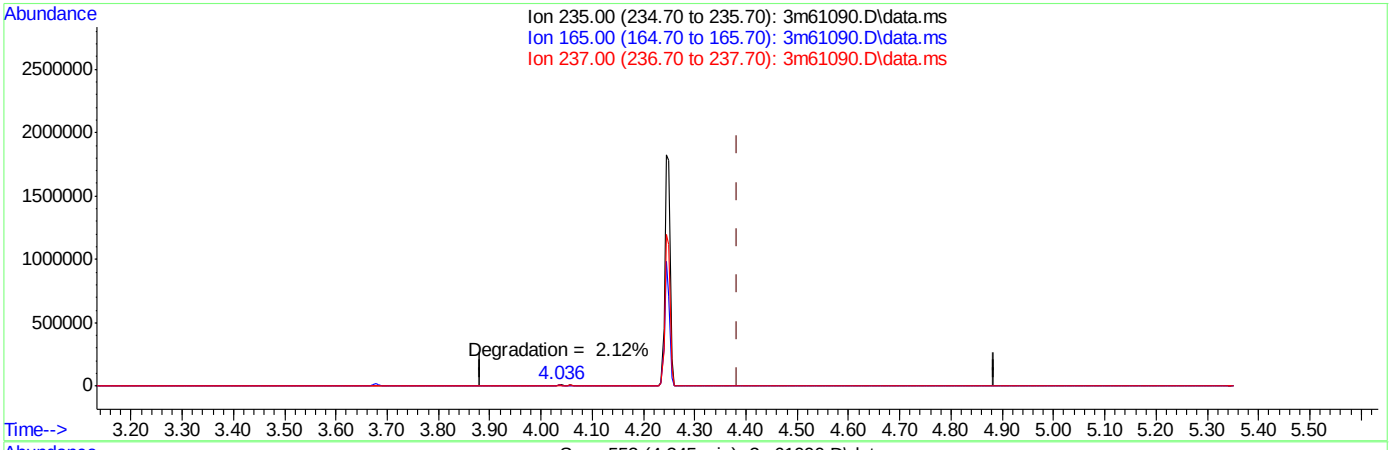
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

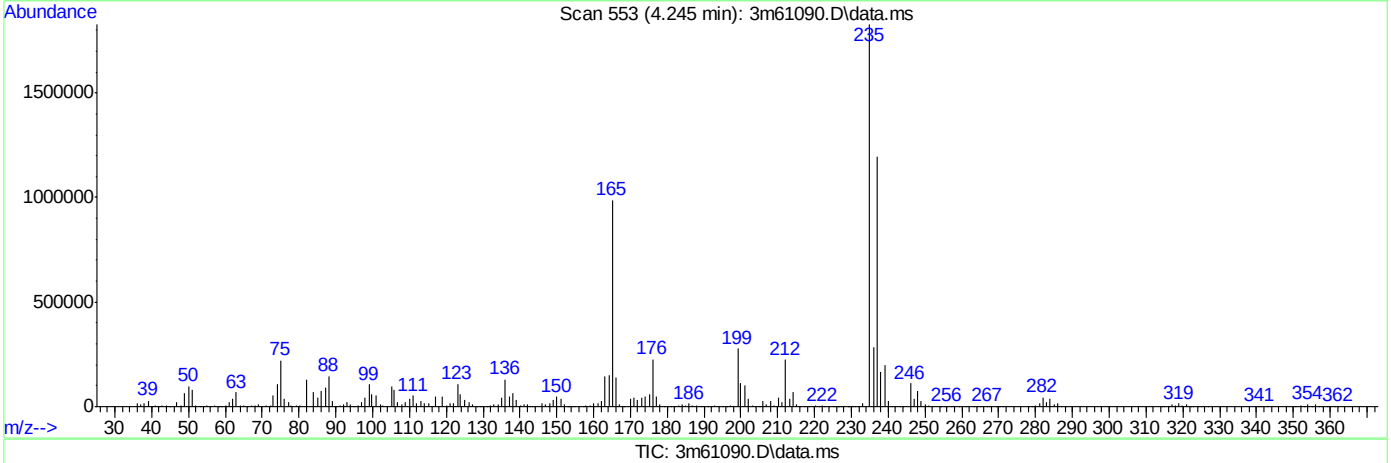
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61090.D
Acq On : 5 May 2016 11:54 am
Operator : linseyk
Sample : dftpp
Misc : op93609a,e3m2872
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 05 11:58:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61090.D\data.ms

(3) PP-DDT (t)

4.245min (-0.139) 185.94ppb

response 1385007

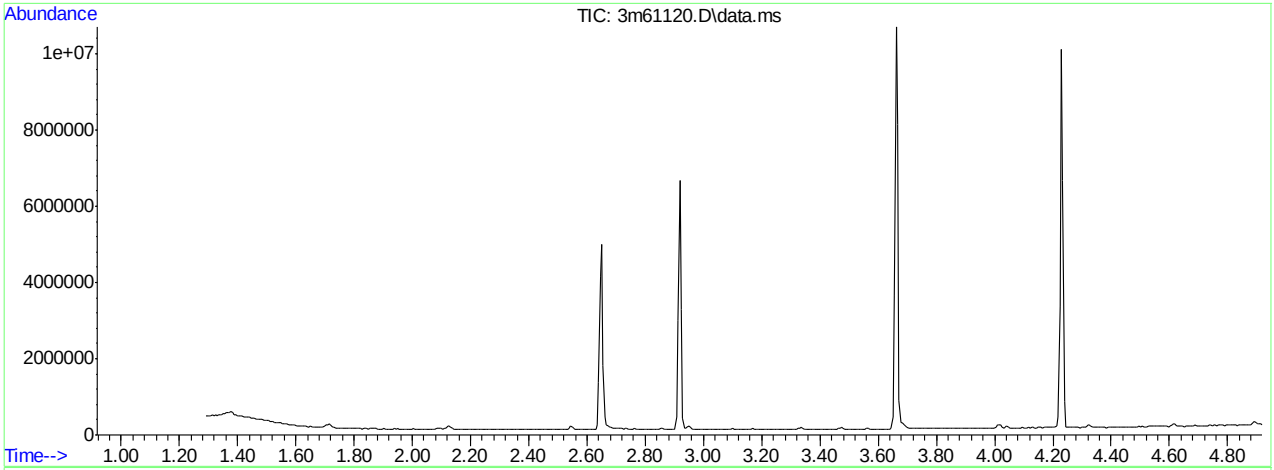
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	48.44#
237.00	0.00	64.36#
0.00	0.00	0.00

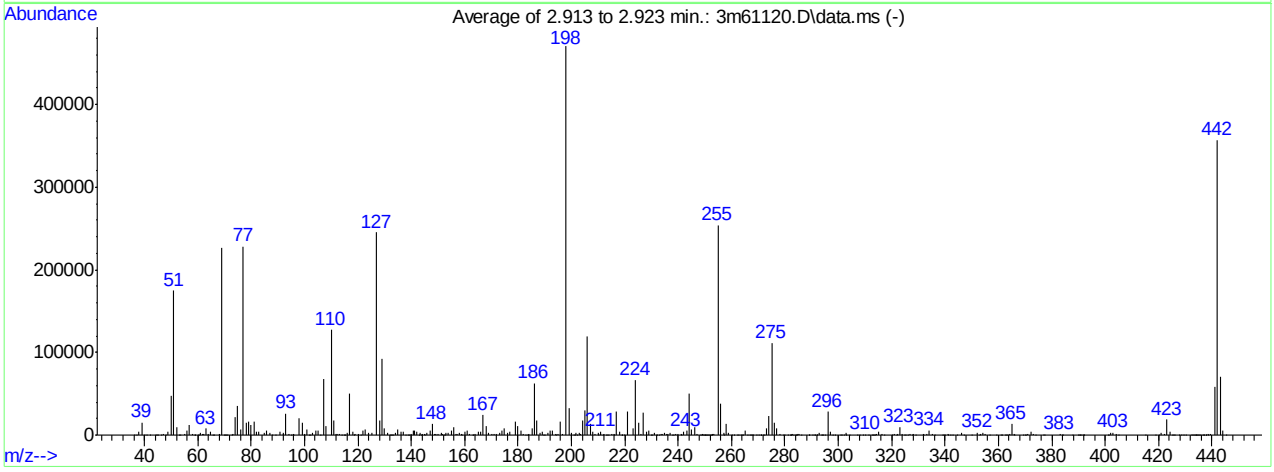
SGS ACCUTEST JC19423

DFTPP

Data File : C:\msdchem\1\DATA\E3M2874\3m61120.D Vial: 1
Acq On : 6 May 2016 9:12 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op93629a,e3m2874 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 304, 305, 306; Background Corrected with Scan 299

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.1	174615	PASS
68	69	0.00	2	0.4	971	PASS
69	198	0.00	100	48.2	226769	PASS
70	69	0.00	2	0.2	434	PASS
127	198	40	60	52.2	245269	PASS
197	198	0.00	1	0.4	1647	PASS
198	198	100	100	100.0	470251	PASS
199	198	5	9	6.8	32030	PASS
275	198	10	30	23.7	111349	PASS
365	198	1	100	2.8	13182	PASS
441	443	0.10	100	82.8	57951	PASS
442	198	40	100	75.9	356808	PASS
443	442	17	23	19.6	69960	PASS

3m61120.D DFTPP3M.M Fri May 06 14:13:30 2016 RPT1

Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	255	46.95	1019	58.05	768	65.80	147
37.00	636	47.95	73	58.70	161	66.10	347
38.00	3442	49.00	3888	59.05	149	68.10	971
39.05	15595	49.95	47775	60.10	210	69.00	226769
40.00	510	51.00	174615	60.60	221	69.95	268
41.00	622	52.00	10006	61.15	2548	70.20	434
42.10	335	52.95	226	61.90	1135	70.60	119
44.00	439	53.30	95	62.05	1442	70.95	306
44.70	223	55.15	1198	63.00	8081	72.80	483
44.95	599	56.00	5845	64.05	1008	73.05	986
46.20	155	56.95	12345	64.95	3988	74.00	22147

Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.00	35296	86.95	2090	98.00	19860	107.95	11194
76.20	6845	87.90	490	99.00	14983	110.00	126888
77.00	228383	89.20	692	99.95	1723	110.95	17266
78.05	15298	91.00	4063	100.90	7391	111.85	1008
79.00	16749	92.00	1440	101.80	234	112.10	1783
79.95	12135	92.20	2695	102.00	492	112.95	827
81.00	16324	93.00	26305	102.95	3171	114.00	96
82.00	4456	94.05	2038	104.05	5688	114.70	205
82.95	4020	95.00	535	105.05	5989	115.00	639
85.00	2722	95.90	272	106.10	508	115.95	3146
85.90	5509	96.05	1116	107.00	67973	117.00	50192

Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.90	4165	128.95	92209	138.00	328	144.90	901
118.60	105	130.00	7602	138.65	323	145.10	145
119.05	991	130.95	2179	139.15	306	146.00	2568
120.10	997	131.85	552	139.90	1459	147.00	5509
121.00	360	132.45	385	140.85	5084	147.90	13136
121.95	5095	133.00	403	141.10	5924	148.90	1197
122.90	6449	133.30	387	142.05	4257	149.15	1953
123.95	3250	134.05	2643	142.90	600	150.10	930
125.05	3199	135.00	6554	143.10	2244	151.10	2123
127.00	245269	136.05	3449	143.80	179	151.75	1110
128.00	17829	136.95	3789	144.15	800	152.00	384

Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.70	731	161.00	5533	170.95	1164	182.75	573
153.00	3129	161.90	2076	172.00	1979	183.50	186
154.00	3178	162.90	579	172.95	2875	183.80	287
155.00	5802	163.10	111	174.05	5038	184.05	1326
156.00	9555	164.05	883	175.00	8778	185.10	8220
156.90	838	164.95	4077	176.00	3112	186.05	62808
157.10	1743	166.00	4157	177.05	4002	187.00	17777
157.95	2435	166.90	24063	178.95	16681	188.10	2218
158.80	404	168.05	11140	180.05	11168	188.95	3967
159.00	1446	169.00	2090	181.05	5738	189.70	341
159.95	3780	170.00	880	182.00	915	189.95	637

Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.05	2431	200.80	349	209.00	1874	215.90	725
192.05	5393	201.40	717	210.00	617	216.10	1727
192.95	5261	201.60	2210	210.25	2532	217.00	28680
194.00	324	202.00	255	210.90	1025	217.95	4151

194.15	987	202.95	2794	211.10	4334	218.80	159
194.95	1590	203.20	1216	211.70	430	219.10	528
196.00	16121	204.05	17417	212.10	1012	219.60	142
196.70	1647	205.10	29488	212.90	330	221.10	28865
198.00	470251	206.05	119576	213.30	86	223.00	7950
199.00	32030	207.05	14085	213.90	91	224.05	67024
199.95	2460	208.00	3896	215.10	1931	225.05	15455

Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.10	1291	233.80	822	241.30	210	249.60	156
227.00	26955	234.00	781	242.15	3556	249.80	325
227.95	4328	235.00	2168	243.10	5061	250.10	163
228.20	1009	235.75	875	244.05	50211	250.40	90
229.00	5006	236.10	1101	245.05	6312	250.70	329
229.75	496	237.05	2692	246.05	9780	251.20	191
230.20	452	237.90	198	247.00	1788	251.70	191
231.00	2382	238.15	371	248.25	476	252.05	523
231.90	145	239.05	1292	248.70	222	252.30	335
232.10	431	240.05	1241	249.00	1672	252.70	446
232.95	623	241.05	1448	249.20	285	253.00	943

Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.30	1255	263.40	92	270.90	244	280.00	74
255.00	253739	263.95	683	271.05	647	280.90	131
256.05	37672	264.20	335	271.80	296	281.70	144
257.00	2220	264.95	5203	272.10	345	282.20	73
257.20	701	265.85	609	273.05	8178	282.50	239
258.00	13971	266.90	94	274.10	22640	282.80	794
259.00	2642	267.15	325	275.05	111349	283.00	411
259.95	448	267.50	220	276.05	14496	283.80	167
261.00	525	268.20	192	277.05	8438	284.10	587
262.00	83	269.45	318	278.00	1383	284.30	228
262.70	96	269.95	422	279.30	162	284.80	822

Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.10	829	294.00	495	303.10	3053	314.15	1304
285.95	415	294.20	132	304.10	463	315.10	3695
288.85	294	294.80	316	307.20	155	316.20	1646
289.10	116	296.00	28097	308.10	444	317.05	235
290.30	175	297.10	3811	309.05	251	320.00	187
291.00	238	297.85	222	310.10	581	321.05	1139
291.20	122	298.70	190	311.20	115	321.90	117
291.90	269	300.75	340	312.70	81	322.15	918
292.10	265	301.10	103	312.95	249	323.05	9545
293.00	2247	301.95	344	313.30	92	324.05	1481
293.80	172	302.70	391	313.90	81	324.90	116

Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
325.10	110	336.10	267	350.00	105	363.00	74
326.00	217	339.10	76	352.10	2930	363.50	139
326.95	1789	339.60	104	353.00	534	364.05	764
327.80	307	340.00	168	353.15	1873	365.00	13182
328.00	932	340.95	1285	354.05	2535	365.80	116
329.00	134	341.20	372	355.10	749	366.05	1826
331.70	75	342.05	307	356.70	140	369.40	80
332.10	990	342.90	104	359.05	336	370.00	257
333.25	1259	344.30	146	361.00	80	370.20	183
334.10	5899	346.00	2133	361.50	84	371.10	1381
335.05	1489	347.10	526	362.40	145	372.10	4714

Average of 2.913 to 2.923 min.: 3m61120.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.05	1339	390.90	106	418.75	165	429.20	295
373.80	221	391.35	215	420.20	222	430.15	222
376.90	74	391.80	253	421.10	3203	432.20	172
377.30	110	392.05	163	422.10	1920	432.90	213
383.00	1359	401.00	325	423.10	18740	433.30	78
383.80	217	401.20	136	424.10	4388	433.50	125
384.00	171	402.10	2144	425.00	437	433.80	86
387.70	136	402.95	2791	425.50	83	434.00	145
389.70	170	404.00	947	426.10	107	434.40	142
390.10	688	405.10	117	427.50	94	434.70	133
390.70	312	414.95	266	428.30	135	435.20	414

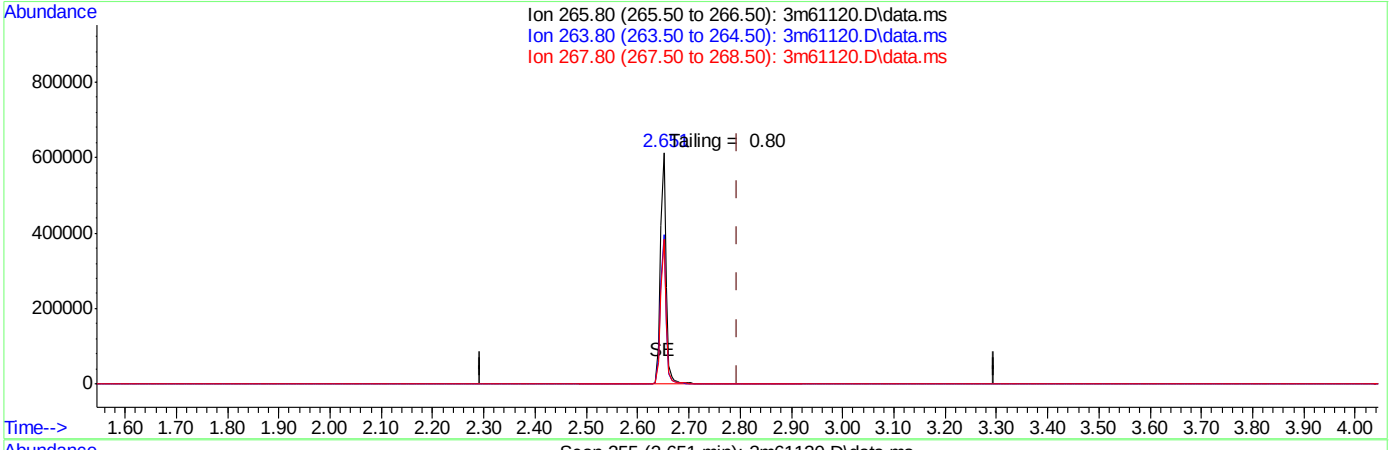
Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

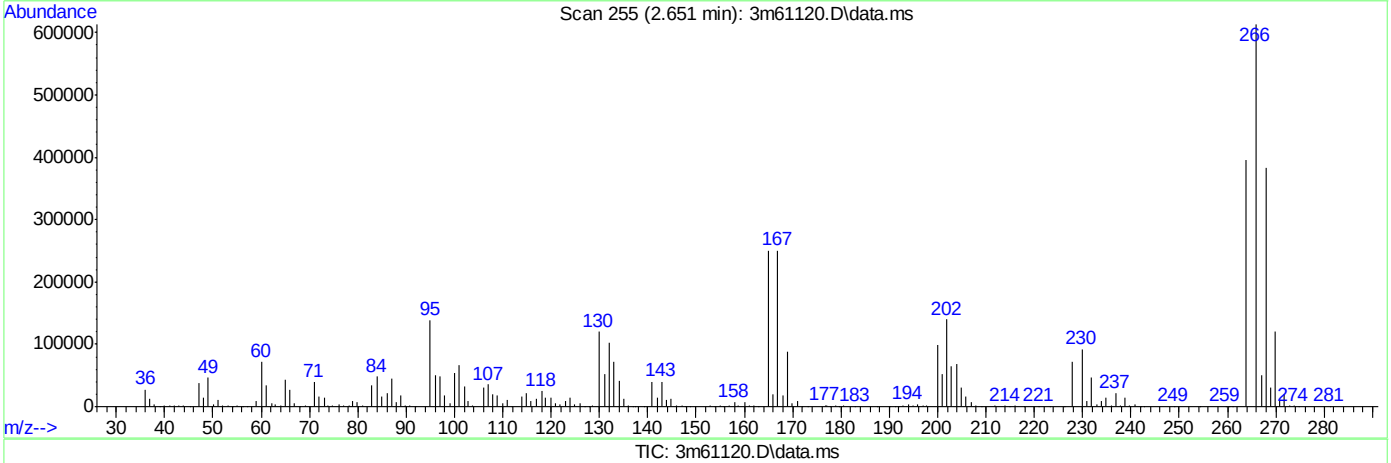
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
435.60	100	443.10	69960				
436.30	174	444.10	5994				
436.70	341	445.10	658				
436.95	512						
437.60	269						
437.90	658						
438.50	166						
438.75	1795						
439.35	1635						
441.10	57951						
442.10	356808						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61120.D
Acq On : 6 May 2016 9:12 am
Operator : linseyk
Sample : dftpp
Misc : op93629a,e3m2874
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 09:16:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61120.D\data.ms

(1) Pentachlorophenol (t)

2.651min (-0.144) 131.71ppb

response 485792

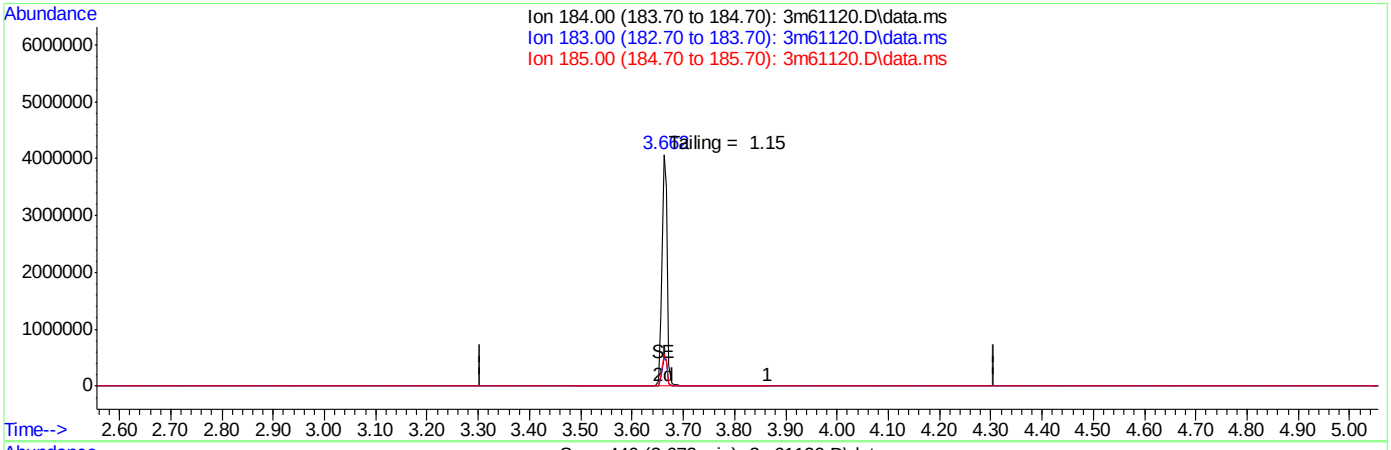
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	64.53
267.80	64.10	62.32
0.00	0.00	0.00

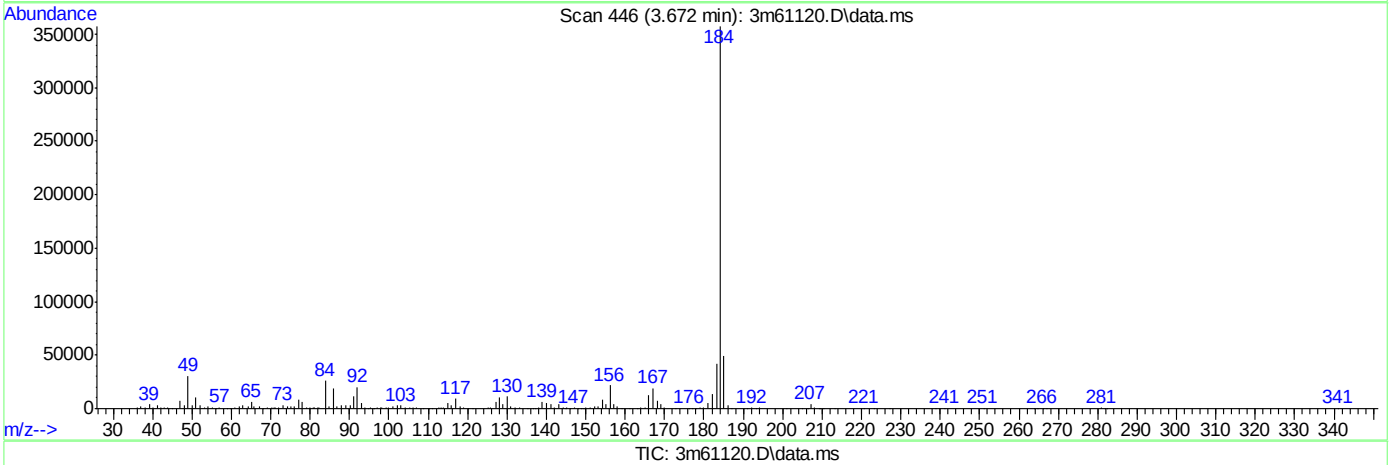
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61120.D
Acq On : 6 May 2016 9:12 am
Operator : linseyk
Sample : dftpp
Misc : op93629a,e3m2874
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 09:16:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61120.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

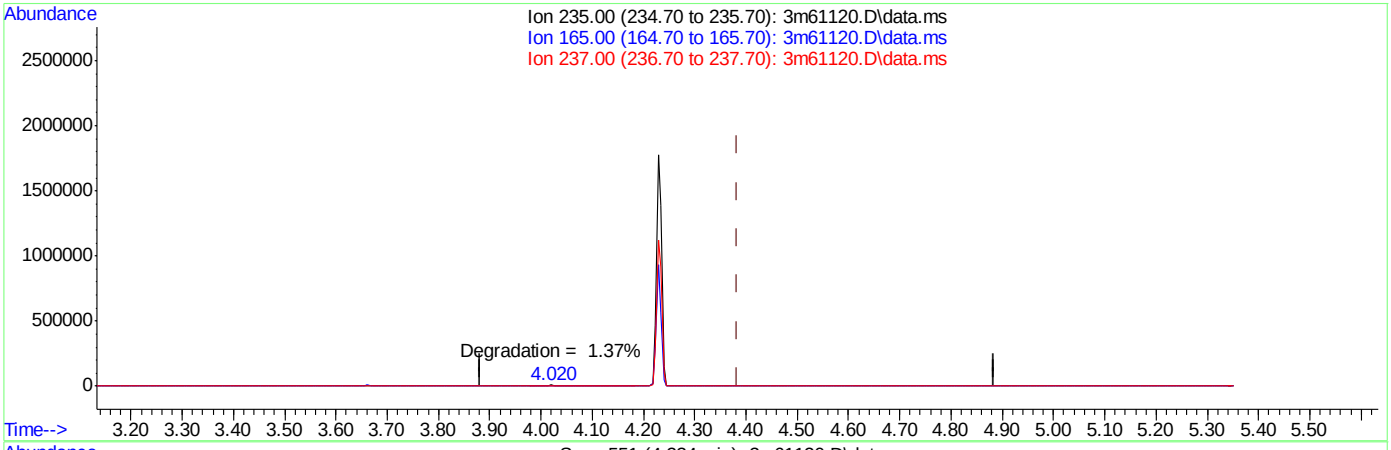
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

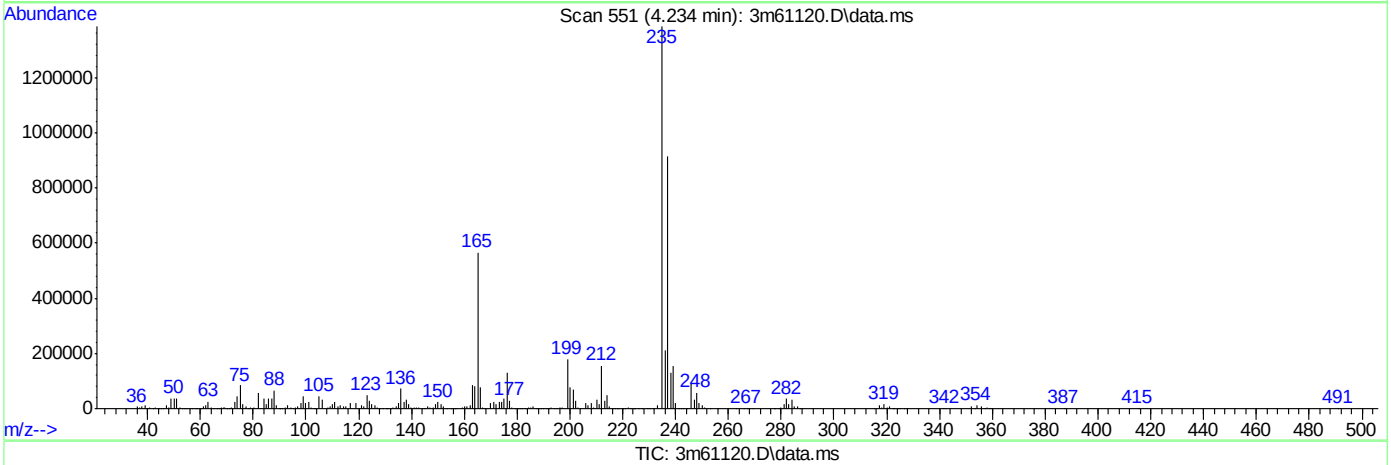
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61120.D
Acq On : 6 May 2016 9:12 am
Operator : linseyk
Sample : dftpp
Misc : op93629a,e3m2874
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 09:16:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61120.D\data.ms

(3) PP-DDT (t)

4.229min (-0.155) 164.31ppb

response 1223897

Ion	Exp%	Act%
235.00	100	100
165.00	0.00	49.16#
237.00	0.00	64.33#
0.00	0.00	0.00

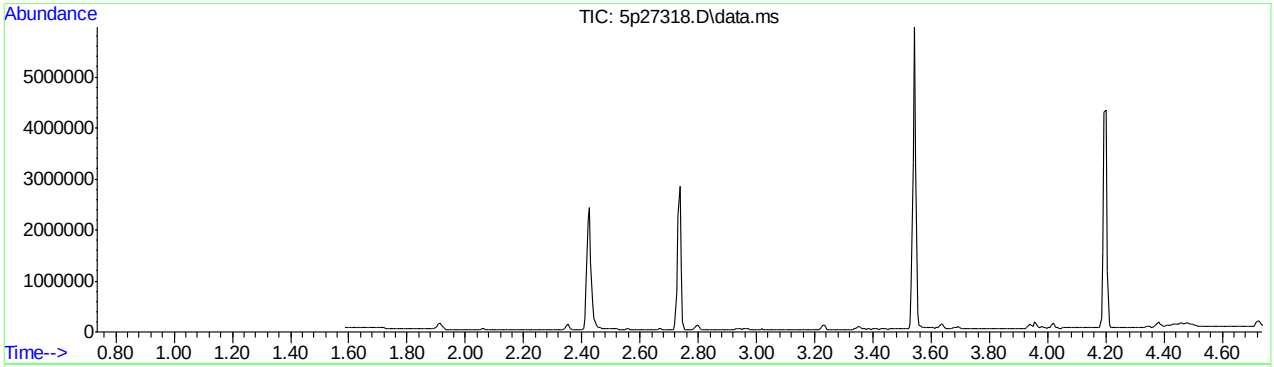
SGS ACCUTEST JC19423

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27318.D
Acq On : 11 Apr 2016 10:14 am
Operator : seanb1
Sample : dftpp
Misc : op92466,e5p1382
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



AutoFind: Scans 215, 216, 217; Background Corrected with Scan 200
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	90825	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.6	99778	PASS
70	69	0.00	2	0.6	629	PASS
127	198	40	60	54.0	135978	PASS
197	198	0.00	1	0.8	1902	PASS
198	198	100	100	100.0	251882	PASS
199	198	5	9	6.7	16968	PASS
275	198	10	30	25.4	63920	PASS
365	198	1	100	2.7	6782	PASS
441	443	0.10	100	75.5	23750	PASS
442	198	40	100	64.3	161853	PASS
443	442	17	23	19.4	31445	PASS

SGS ACCUTEST JC19423

Average of 2.731 to 2.741 min.: 5p27318.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	602	51.10	90825	63.10	3279	75.10	15025
38.10	1322	52.10	4697	64.00	296	76.20	2786
39.10	6483	53.10	353	64.25	363	77.10	98087
40.05	334	54.10	254	65.10	2028	78.10	6587
41.10	199	55.10	514	66.15	280	79.10	6362
43.10	392	56.05	3060	67.10	433	80.05	5152
45.20	285	57.10	7346	69.05	99778	81.10	7429
46.10	95	59.05	427	70.10	629	82.05	2011
48.30	122	60.15	237	72.00	228	83.10	1989
49.00	799	61.05	1144	73.10	926	85.10	1776
50.10	25654	62.15	1232	74.10	9702	86.05	1817

Average of 2.731 to 2.741 min.: 5p27318.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.05	1284	99.10	6750	112.15	1209	123.05	3859
88.05	614	100.05	654	113.00	486	124.10	1586
89.00	156	101.10	4326	113.90	108	125.05	1641
89.20	142	102.05	127	115.05	316	127.10	135978
91.05	1701	103.10	1505	115.30	140	128.10	10776
92.10	1896	104.05	2543	116.10	1980	129.10	52106
93.10	11324	105.05	2303	117.10	24174	130.00	4364
94.05	896	107.10	33300	118.05	1734	131.05	567
95.10	85	108.10	5511	119.00	157	132.10	443
96.10	319	110.10	67514	120.10	425	133.05	252
98.10	9112	111.10	9942	122.10	2034	133.70	94

Average of 2.731 to 2.741 min.: 5p27318.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.00	1144	144.05	355	153.10	1958	163.90	156
134.20	143	145.05	262	154.10	1552	164.10	251
135.05	3876	146.00	934	155.10	3265	165.00	2265
136.00	1879	146.20	210	156.10	5267	166.10	1991
137.10	2349	147.05	2667	157.15	1401	167.05	11961
138.00	401	148.05	6274	158.10	1302	168.10	5427
139.10	401	149.05	1064	159.10	918	169.00	583
140.15	732	149.90	138	160.10	2010	170.00	26
141.10	5924	150.15	194	161.10	2896	170.60	117
142.10	1971	151.20	777	162.00	907	171.10	398
143.05	1478	151.70	498	163.15	326	172.00	1299

Average of 2.731 to 2.741 min.: 5p27318.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.05	1627	182.90	151	192.10	2689	203.05	1506
174.10	2713	183.10	72	193.10	2770	204.10	8828
175.10	4604	184.10	711	194.15	635	205.10	15506
176.10	1546	185.10	4151	195.10	575	206.10	61421
177.10	2354	186.10	36090	196.10	9712	207.10	7040
178.10	827	187.10	9670	196.70	1902	208.10	1650
179.00	7584	188.15	929	198.10	251882	209.10	557
180.10	6347	189.05	1926	199.10	16968	210.15	541
181.10	3127	190.10	318	200.10	1286	210.65	1122
182.05	345	190.50	137	201.60	1906	211.15	2439
182.50	83	191.10	1196	202.20	260	212.10	174

Average of 2.731 to 2.741 min.: 5p27318.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.25	427	226.10	1167	235.80	165	246.10	4182
215.10	453	227.10	12429	236.15	419	247.05	780
216.15	1200	228.10	1788	237.10	1218	248.05	379
217.10	13989	229.10	2840	238.10	178	249.05	999

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218.00	1904	230.05	459	238.95	274	250.10	142
220.10	238	231.15	1057	240.10	400	251.10	245
221.10	17637	232.00	289	241.00	584	252.20	264
221.70	844	232.90	92	242.10	1770	253.15	694
223.10	3763	233.10	109	243.15	2182	255.10	134989
224.10	31765	234.05	857	244.10	27744	256.10	20366
225.10	7369	235.00	939	245.10	4049	257.10	1352

Average of 2.731 to 2.741 min.: 5p27318.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.05	6973	272.15	227	285.15	996	301.20	94
259.10	1148	273.10	4041	286.00	104	302.15	244
260.10	86	274.10	10700	289.00	70	303.15	1781
261.10	167	275.10	63920	290.10	119	304.05	478
263.95	293	276.10	8807	292.10	92	308.10	192
265.10	2413	277.10	4163	293.10	1059	309.20	76
266.05	246	278.05	790	294.15	372	310.05	159
267.20	113	279.00	220	295.20	139	314.05	668
269.90	260	282.20	94	296.10	15015	315.05	1563
270.30	72	283.10	663	297.10	1926	316.10	1026
271.10	429	284.15	522	298.10	85	317.10	84

Average of 2.731 to 2.741 min.: 5p27318.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
321.10	721	334.10	3314	366.10	833	392.20	76
322.05	368	335.10	630	369.80	93	402.10	1193
323.15	5735	341.10	730	370.20	90	403.10	1506
324.15	1016	342.25	156	371.10	501	404.15	576
326.10	110	346.05	1219	372.20	2525	421.05	1211
327.05	951	347.10	100	373.15	744	422.10	1163
328.05	516	352.10	1780	377.20	69	423.15	8950
332.00	99	353.15	1039	383.05	607	424.15	1703
332.30	84	354.15	1710	384.30	88	425.10	90
333.00	327	355.10	412	390.10	265	441.15	23750
333.20	276	365.10	6782	391.10	87	442.15	161853

Average of 2.731 to 2.741 min.: 5p27318.D\data.ms
dftpp
Modified:subtracted

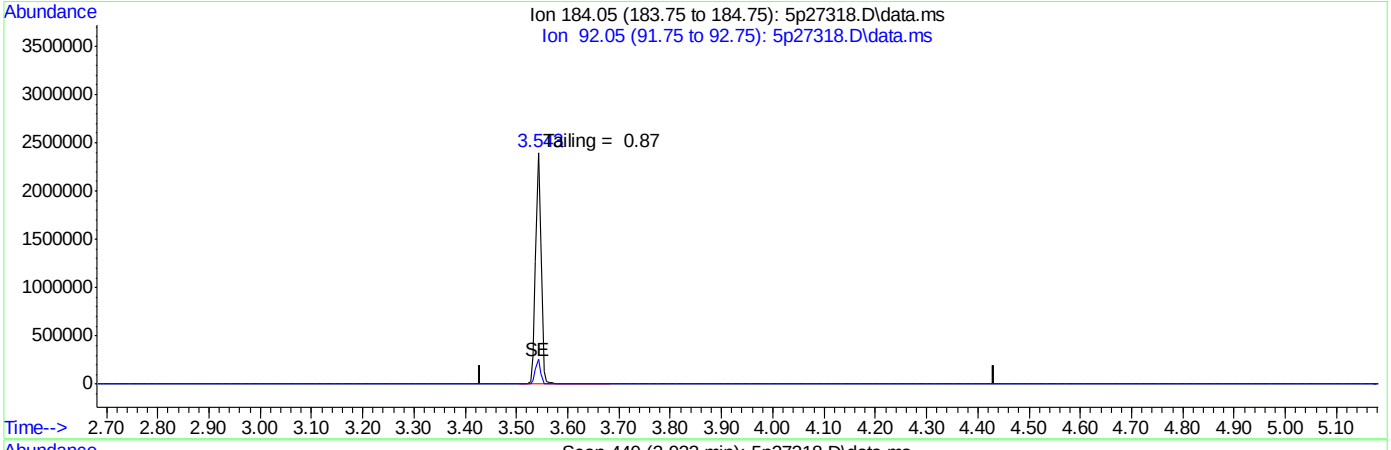
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
443.15	31445						
444.15	3359						
445.00	192						
445.20	85						

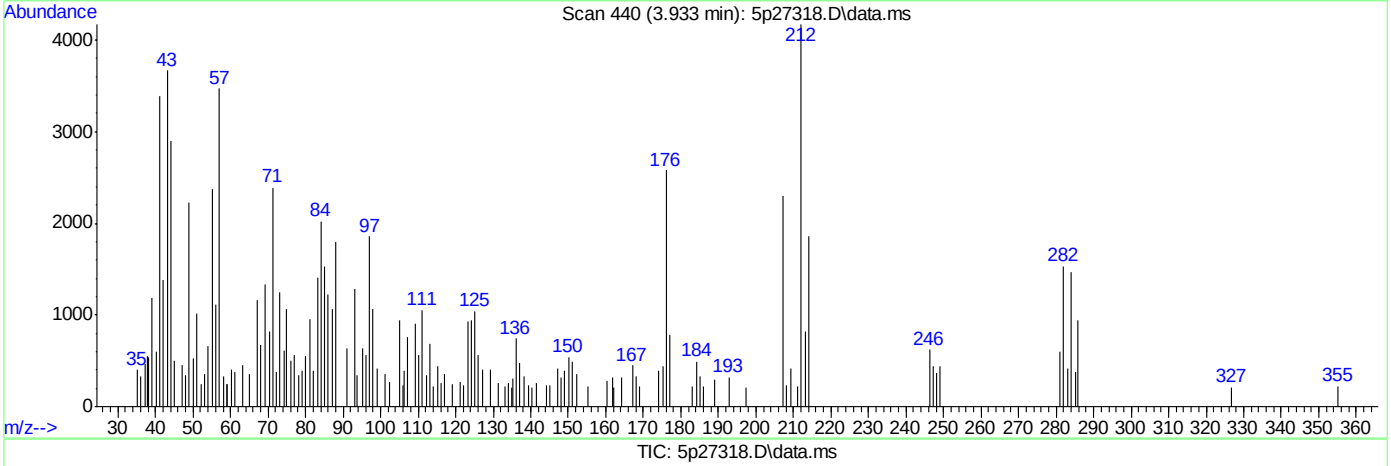
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27318.D
Acq On : 11 Apr 2016 10:14 am
Operator : seanb1
Sample : dftpp
Misc : op92466,e5p1382
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 10:19:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





(2) Benzidine (M)

3.931min (-3.931) 0.00ng

response 0

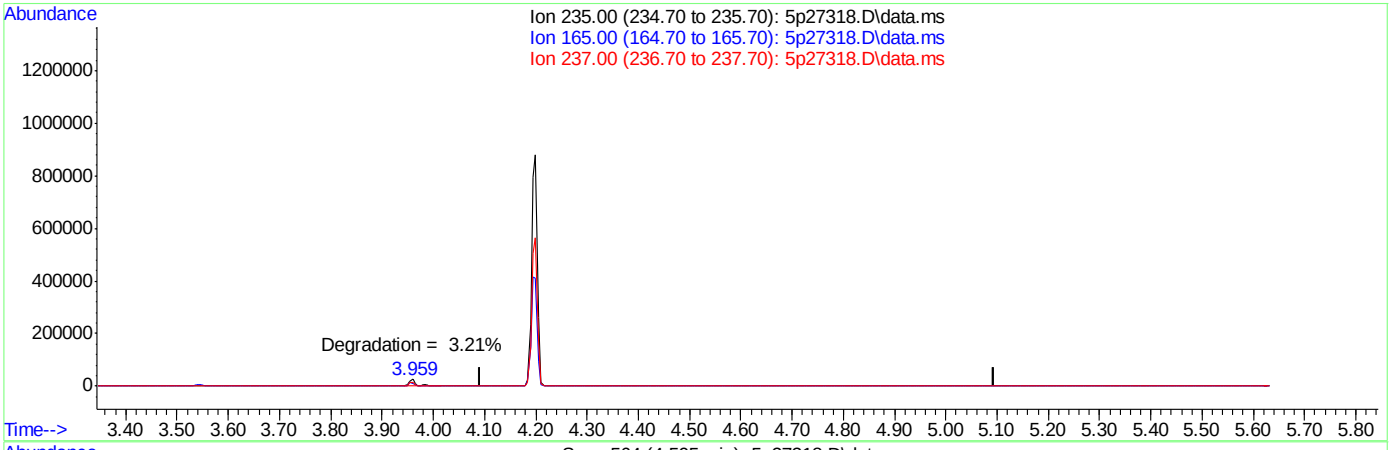
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

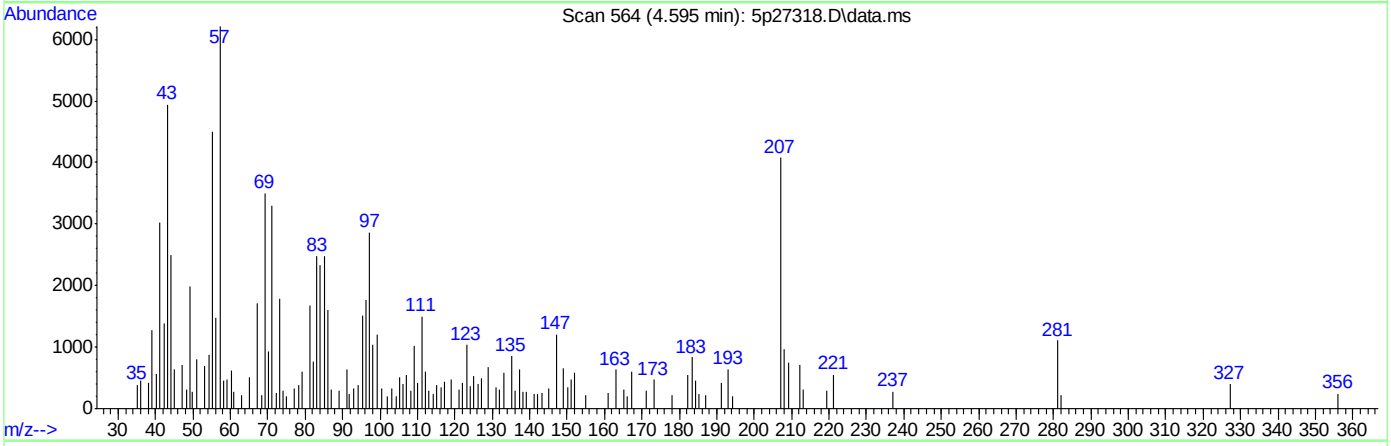
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27318.D
Acq On : 11 Apr 2016 10:14 am
Operator : seanb1
Sample : dftpp
Misc : op92466,e5p1382
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 10:19:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p27318.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

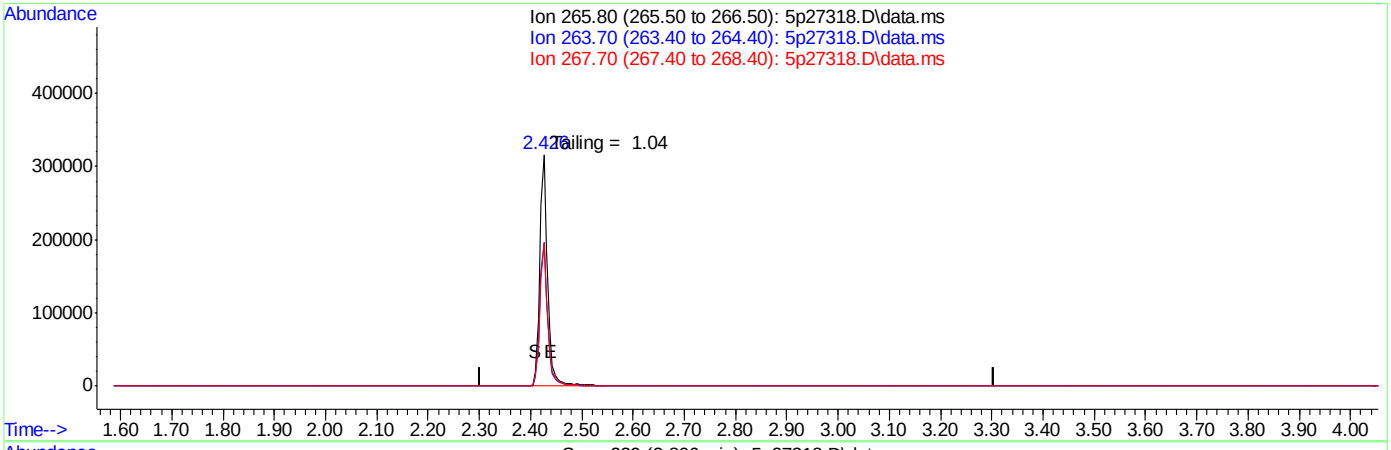
Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

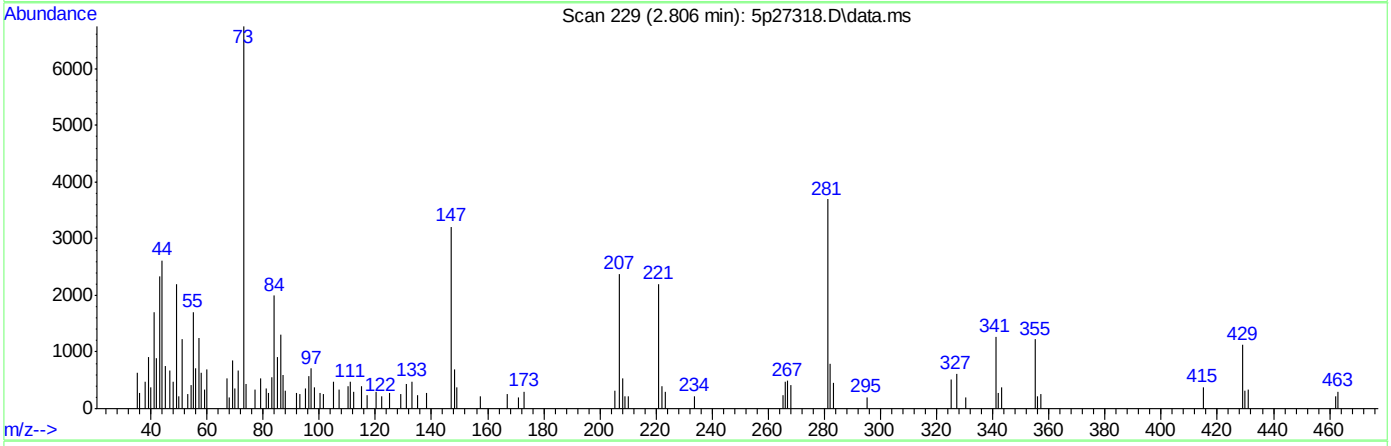
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27318.D
Acq On : 11 Apr 2016 10:14 am
Operator : seanb1
Sample : dftpp
Misc : op92466,e5p1382
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 10:19:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p27318.D\data.ms

(1) Pentachlorophenol (MC)

2.804min (-2.804) 0.00ng

response 0

Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

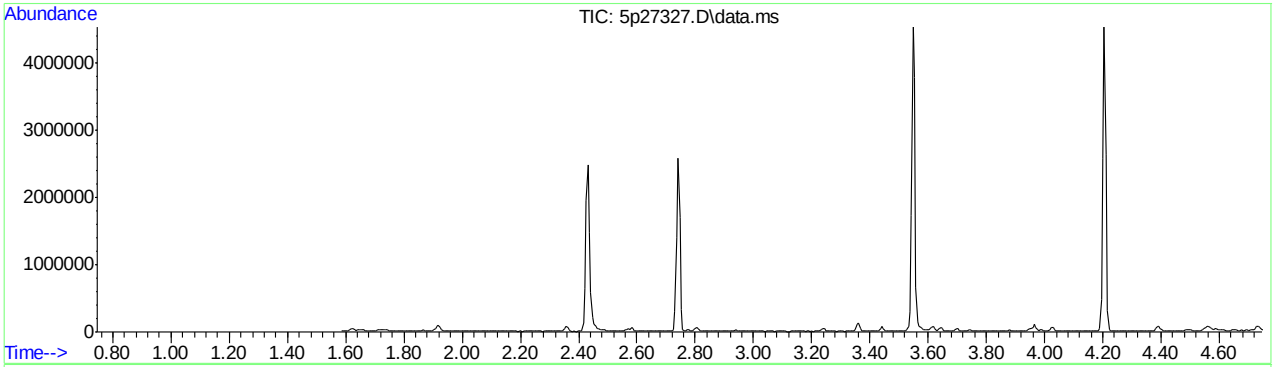
SGS ACCUTEST JC19423

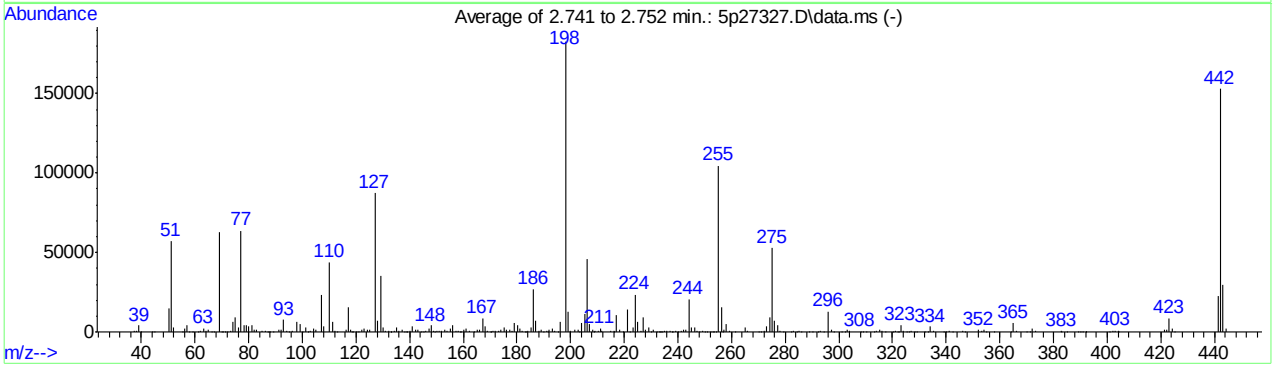
DFTPPR

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27327.D
Acq On : 11 Apr 2016 2:45 pm
Operator : ariellec
Sample : dftpp
Misc : op92466,e5p1383
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015





AutoFind: Scans 217, 218, 219; Background Corrected with Scan 202
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.3	57180	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.4	62947	PASS
70	69	0.00	2	0.6	374	PASS
127	198	40	60	47.8	87330	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	182736	PASS
199	198	5	9	6.9	12655	PASS
275	198	10	30	28.8	52696	PASS
365	198	1	100	3.1	5590	PASS
441	443	0.10	100	76.7	22821	PASS
442	198	40	100	83.6	152749	PASS
443	442	17	23	19.5	29758	PASS

Average of 2.741 to 2.752 min.: 5p27327.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.15	415	57.05	4522	70.00	374	80.00	3209
38.20	909	58.00	13	70.20	169	81.05	4155
39.10	4169	59.10	67	71.15	242	82.10	1164
40.00	238	61.00	366	72.00	92	83.05	1383
44.10	127	62.10	662	73.20	786	85.05	1033
45.00	73	63.10	2366	74.10	6259	86.05	994
50.10	15104	64.05	416	75.10	9238	87.05	279
51.05	57180	65.10	1178	76.20	2783	87.60	99
52.10	2759	66.00	109	77.10	63623	88.00	250
55.10	189	67.05	200	78.10	4128	89.20	71
56.05	2266	69.00	62947	79.10	4598	91.05	1506

Average of 2.741 to 2.752 min.: 5p27327.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.15	1339	104.10	1850	118.30	67	130.10	2837
93.10	7546	105.05	1781	118.85	179	131.00	626
94.05	565	107.10	23136	120.05	298	132.00	406
95.10	138	108.10	3627	121.00	93	132.90	106
96.05	404	110.10	44068	122.10	1608	133.10	285
98.10	6042	111.10	6377	123.05	2342	134.10	836
99.00	5019	112.05	839	124.05	1124	135.05	2707
100.05	375	112.95	239	125.05	1196	136.10	984
101.10	2562	116.10	1678	127.10	87330	137.10	1374
102.05	264	117.10	15756	128.10	7252	138.00	341
103.05	848	118.05	1421	129.10	35344	138.70	103

Average of 2.741 to 2.752 min.: 5p27327.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.00	126	149.30	66	159.10	143	170.30	86
140.10	396	150.25	430	160.10	1525	171.10	414
141.10	3898	151.00	659	161.10	2155	172.00	521
142.15	1285	151.70	521	162.10	603	173.10	1031
143.10	1278	153.10	1327	164.00	86	174.10	1729
144.10	278	154.00	928	165.05	1221	175.10	3144
145.00	238	155.10	2136	166.10	1235	176.10	1640
146.05	879	156.10	3908	167.10	8727	177.10	1599
147.05	1844	157.05	798	168.10	3901	178.05	403
148.05	4227	158.00	699	169.05	736	179.05	6008
149.05	867	158.90	326	170.00	262	180.10	4384

Average of 2.741 to 2.752 min.: 5p27327.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
181.10	2315	191.05	613	203.00	1237	211.60	397
182.05	442	191.40	82	203.20	131	215.10	429
183.00	189	192.10	1604	204.10	5387	216.10	802
183.20	124	193.10	2060	205.10	10985	216.30	66
184.10	490	194.10	454	206.10	45574	217.05	10280
185.10	3178	195.20	241	207.05	5075	218.05	1387
186.10	27030	196.10	6375	208.10	1569	219.60	103
187.10	7138	198.00	182736	208.80	74	221.10	13793
188.10	866	199.00	12655	209.05	430	222.10	99
189.10	1333	200.05	923	210.20	394	223.10	2518
190.00	343	201.60	1327	211.05	2336	224.10	23519

Average of 2.741 to 2.752 min.: 5p27327.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.10	6234	234.20	214	244.10	20525	254.00	121
226.20	534	235.10	728	245.10	2843	255.10	104554
227.10	8908	236.00	537	246.10	2792	256.10	15740
228.05	1199	237.10	631	247.10	811	256.70	72

DFTPP5P.M Mon Apr 11 14:52:21 2016 RPT1 Page: 2

229.10	2500	237.90	136	248.00	293	257.10	1385
230.10	235	238.10	70	249.05	852	258.10	4974
231.00	1195	239.10	395	250.10	85	259.10	750
231.95	173	240.15	308	251.05	223	261.10	196
232.70	70	241.05	753	252.05	199	265.10	2505
233.20	76	242.10	1300	253.00	189	266.00	676
233.90	145	243.10	1369	253.20	120	270.00	125

Average of 2.741 to 2.752 min.: 5p27327.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
271.05	166	284.10	250	301.10	88	317.20	78
272.20	505	285.05	736	302.15	244	320.10	73
273.05	3282	286.05	197	303.15	1686	321.15	398
274.10	9048	288.95	158	304.10	582	322.00	71
275.10	52696	290.20	147	308.00	187	322.20	188
276.10	7110	292.05	271	309.10	173	323.10	4402
277.10	3916	293.10	965	310.10	107	324.15	966
278.05	744	294.10	241	313.05	183	325.10	106
279.10	83	296.10	12723	314.10	775	326.10	121
282.00	101	297.10	1435	315.10	1324	327.10	972
283.10	468	298.10	159	316.10	713	328.05	268

Average of 2.741 to 2.752 min.: 5p27327.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
329.10	105	352.15	1368	373.10	681	403.10	934
332.10	331	353.10	776	382.80	97	404.00	514
333.10	185	354.10	1753	383.10	454	404.20	83
334.10	3251	355.00	119	385.10	98	421.15	1126
335.10	801	357.90	75	389.00	85	422.10	1291
339.00	72	364.00	68	390.10	290	423.10	8613
340.00	102	365.10	5590	390.95	254	424.10	1809
341.10	467	366.05	926	391.90	87	425.20	108
342.20	86	370.00	81	392.10	107	441.20	22821
346.10	817	371.00	103	400.85	190	442.10	152749
347.00	154	372.15	2479	402.10	804	443.15	29758

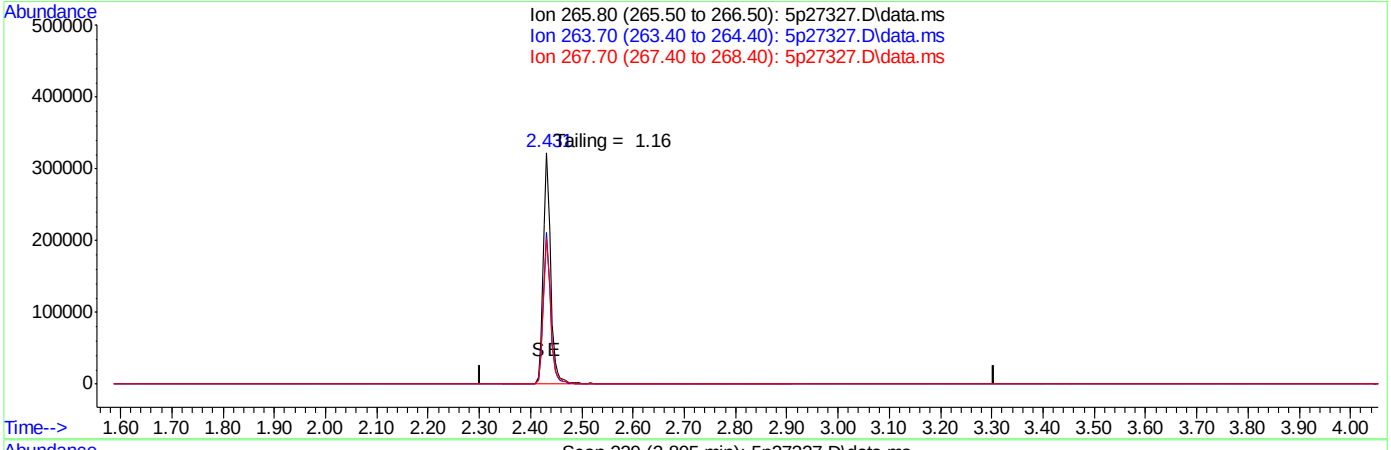
Average of 2.741 to 2.752 min.: 5p27327.D\data.ms
dftpp
Modified:subtracted

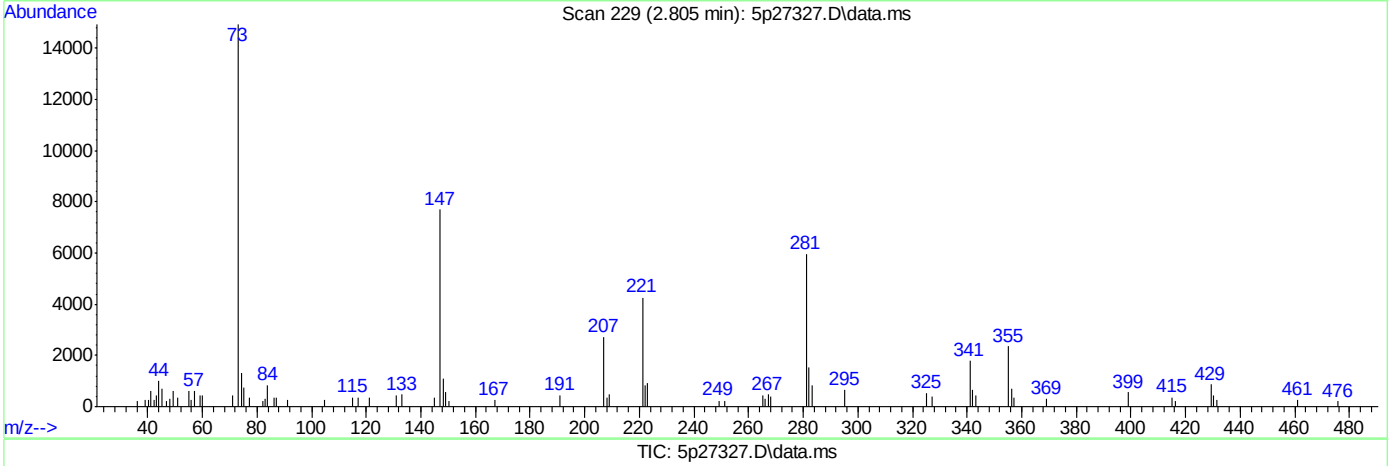
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
444.15	2338						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27327.D
Acq On : 11 Apr 2016 2:45 pm
Operator : ariellec
Sample : dftpp
Misc : op92466,e5p1383
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 14:51:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p27327.D\data.ms

(1) Pentachlorophenol (MC)

2.804min (-2.804) 0.00ng

response 0

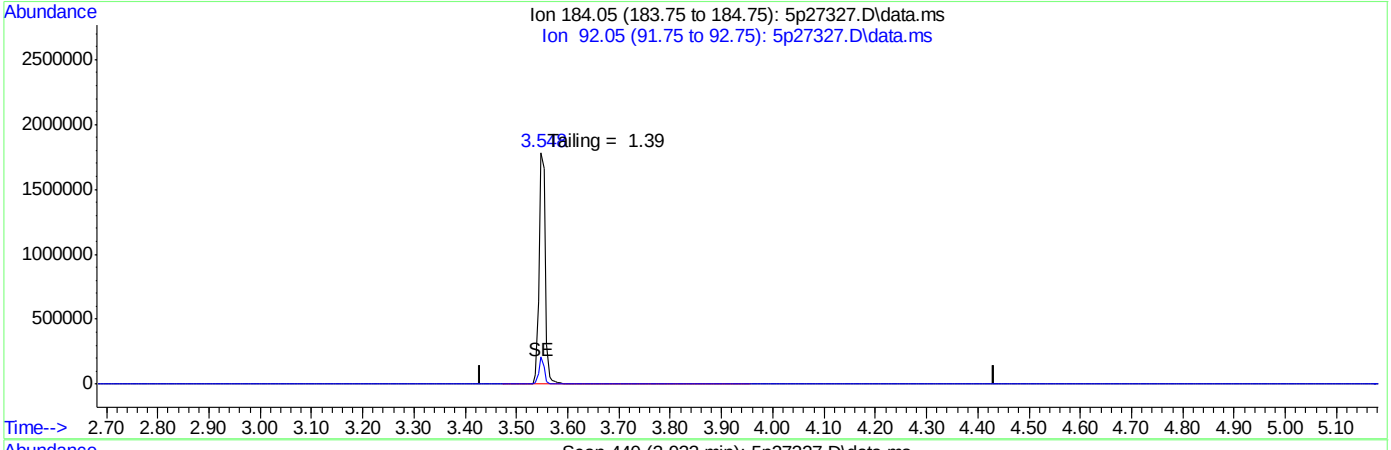
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

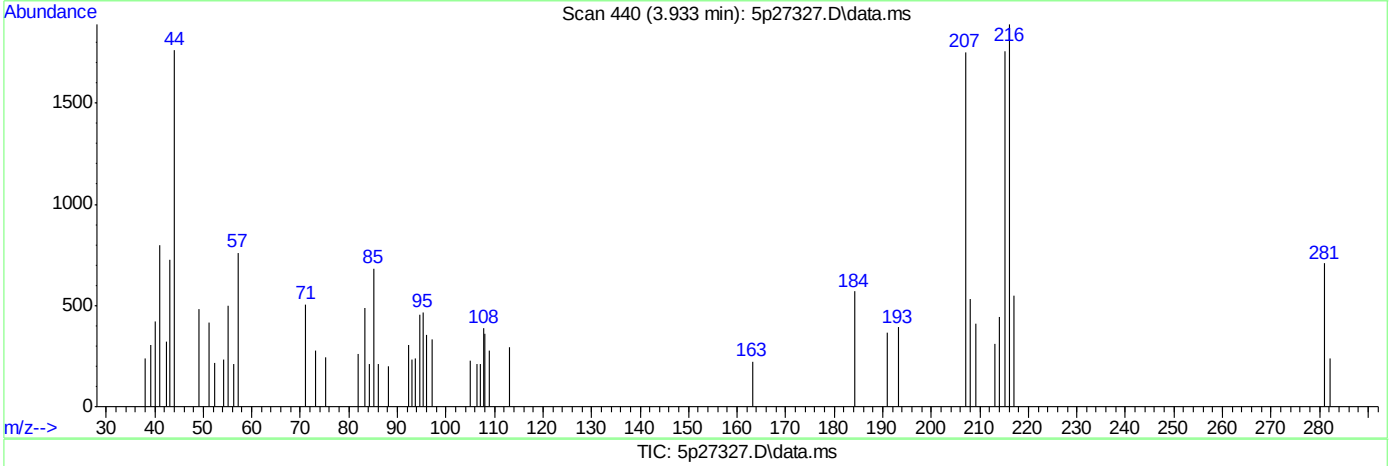
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27327.D
Acq On : 11 Apr 2016 2:45 pm
Operator : ariellec
Sample : dftpp
Misc : op92466,e5p1383
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 14:51:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p27327.D\data.ms

(2) Benzidine (M)

3.931min (-3.931) 0.00ng

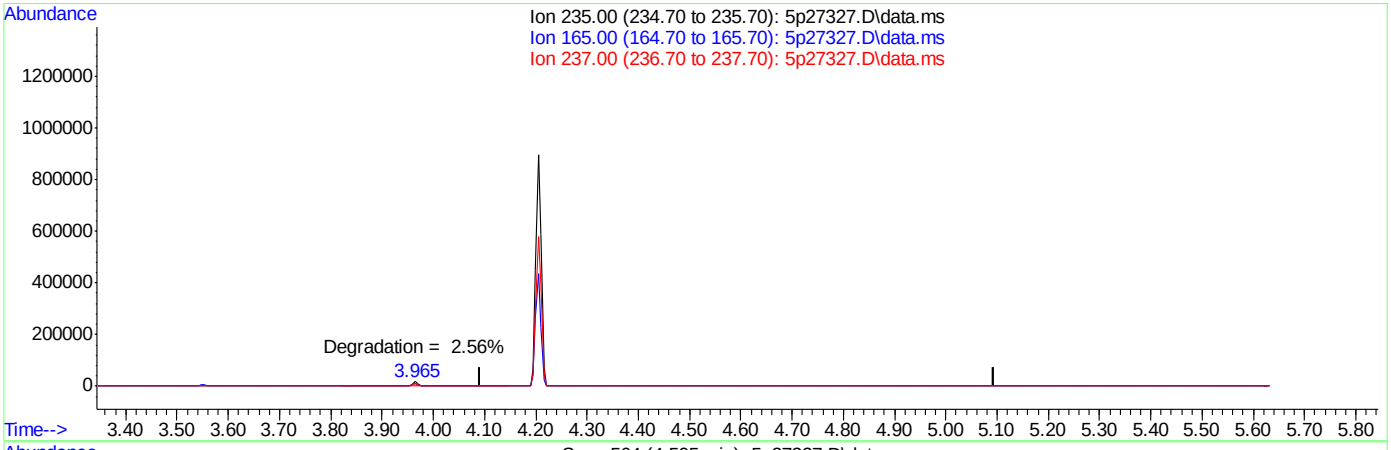
response 0

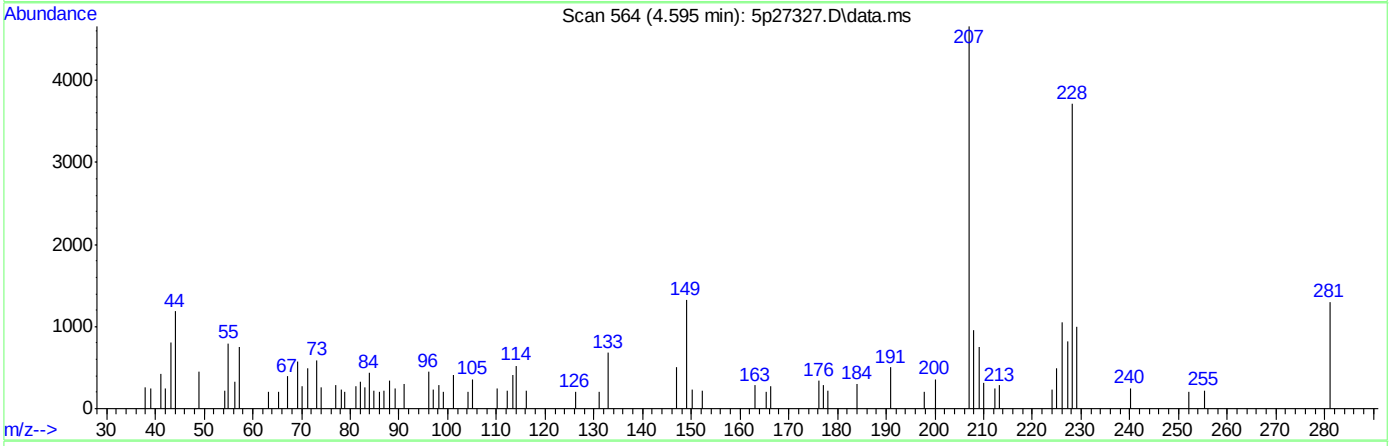
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27327.D
Acq On : 11 Apr 2016 2:45 pm
Operator : ariellec
Sample : dftpp
Misc : op92466,e5p1383
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 14:51:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p27327.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

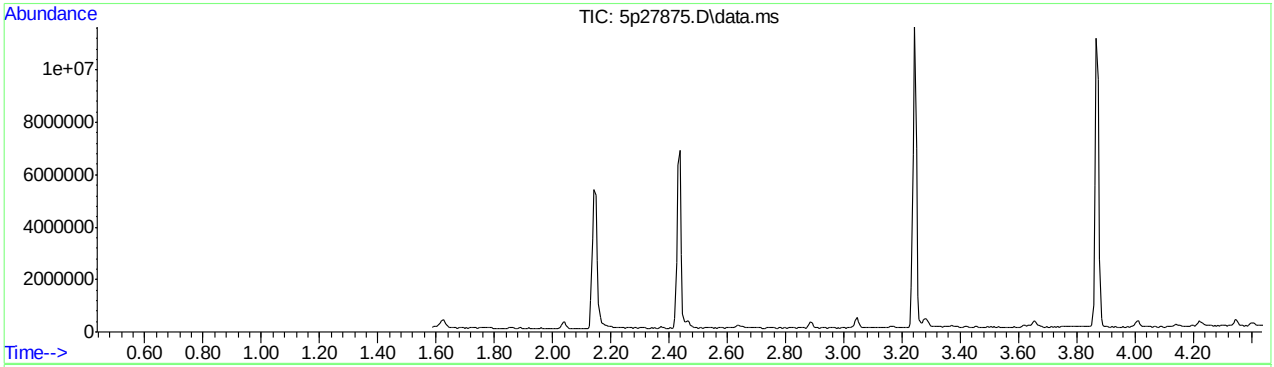
SGS ACCUTEST JC19423

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27875.D
Acq On : 2 May 2016 10:24 am
Operator : ashleyn
Sample : dftpp
Misc : op93450,e5p1414
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



AutoFind: Scans 159, 160, 161; Background Corrected with Scan 152
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.5	305835	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.7	225587	PASS
70	69	0.00	2	0.7	1570	PASS
127	198	40	60	51.4	299746	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	582976	PASS
199	198	5	9	6.8	39557	PASS
275	198	10	30	25.7	149538	PASS
365	198	1	100	3.1	18360	PASS
441	443	0.10	100	95.6	93053	PASS
442	198	40	100	91.0	530453	PASS
443	442	17	23	18.3	97333	PASS

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1292	49.10	3672	58.20	78	70.90	132
36.60	838	50.10	89900	58.70	295	71.30	750
37.00	1556	51.05	305835	60.10	1325	72.40	552
37.30	1843	52.10	16438	60.95	3018	73.20	1905
38.10	6247	53.00	1209	62.15	3614	74.10	22020
39.10	21794	53.60	436	63.10	10378	75.10	33003
40.15	664	54.15	570	64.20	1908	77.05	205847
43.10	53	55.05	3243	65.00	4789	78.10	14701
44.05	429	56.10	11618	67.10	1876	79.05	19652
45.10	1279	57.05	20192	69.00	225587	79.80	799
45.85	47	57.85	851	70.10	1570	80.05	13651

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.05	19465	89.20	562	99.05	17473	110.05	166314
82.00	2194	89.90	194	101.05	9373	111.05	23251
83.10	3013	91.00	7097	102.05	389	112.10	3301
83.30	790	92.00	4347	102.50	25	112.95	2179
84.00	643	92.30	3046	103.00	5552	114.00	121
84.70	493	93.05	31113	103.50	478	114.60	423
85.10	3670	94.15	4	104.05	7320	115.00	136
86.05	5015	94.85	857	105.15	6287	115.45	1162
87.05	3546	96.00	2007	105.90	1956	116.10	1304
87.90	969	97.10	402	107.10	81098	117.00	61680
88.95	92	98.05	20740	108.05	11130	118.10	5599

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.50	118	129.00	117079	138.25	966	147.05	9483
120.30	1353	130.00	10546	139.15	804	148.10	15125
121.00	654	131.05	3831	139.85	855	149.00	657
121.50	158	131.90	220	141.00	14547	149.20	1472
122.05	6604	132.15	1703	142.00	6396	150.15	1343
122.90	3228	132.95	950	143.05	3818	151.10	3501
123.15	4605	134.00	3149	144.15	811	151.50	677
124.00	4428	135.05	8826	144.50	136	151.90	508
125.05	2827	136.05	3430	145.00	170	152.25	150
127.10	299746	136.80	1379	146.10	3069	153.00	3502
128.10	30010	137.10	3568	146.40	1021	153.30	1280

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.10	2777	161.00	3302	169.80	321	176.10	3115
155.00	5828	161.20	2838	170.00	491	177.00	6529
155.20	1409	162.05	1502	170.20	507	178.00	2824
156.05	14538	162.90	693	170.50	517	179.00	20006
156.90	442	163.10	533	171.10	559	180.05	13818
157.15	1737	164.20	1704	171.75	1458	181.05	6798
157.40	123	165.00	6066	172.10	807	182.10	1450
158.05	2230	166.10	4556	172.50	1594	182.30	1287
159.15	2951	167.10	29770	173.05	3891	182.90	1100
159.80	1238	168.10	12204	174.05	5988	183.35	301
160.20	4672	169.25	1964	175.10	9494	183.60	115

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.90	124	191.20	325	202.05	141	210.50	2385
184.20	2231	191.50	696	203.20	3978	211.00	864
185.10	11112	192.10	3588	204.00	17584	211.15	3495
186.10	81586	193.10	7290	205.10	37053	211.65	2911

DFTPP5P.M Mon May 02 14:14:58 2016 RPT1 Page: 2

187.10	24433	194.05	1610	206.10	132613	212.70	169
188.15	2703	195.00	300	207.05	18893	213.10	365
189.05	4439	196.10	29526	208.10	4151	213.60	145
189.70	100	198.00	582976	209.10	1261	214.30	344
190.10	164	199.05	39557	209.30	261	215.05	2712
190.50	623	200.05	2929	210.00	1107	216.10	2677
190.90	1093	201.55	4711	210.20	1544	217.05	29946

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
218.05	4497	227.10	26807	233.40	204	239.20	660
219.15	441	227.80	671	233.90	490	240.05	1245
220.00	702	228.10	4388	234.25	676	240.85	854
220.30	805	228.40	379	235.05	2726	241.30	1032
221.10	37885	229.15	4943	235.90	1373	242.05	3582
221.70	1317	229.90	925	236.20	549	243.15	5075
222.20	3486	230.40	214	236.90	1023	244.10	61451
223.10	9742	231.15	3632	237.20	852	245.15	9634
224.10	72749	232.00	229	238.10	189	246.10	10669
225.10	20458	232.30	162	238.85	1023	246.90	1323
226.20	1824	233.00	1243	239.00	479	247.10	385

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.00	526	255.10	317568	263.50	153	273.10	13939
248.20	285	256.10	47485	264.10	737	274.10	24912
248.35	711	257.15	4448	265.05	6356	275.10	149538
249.05	2507	258.10	18328	266.05	610	276.10	19672
249.60	128	258.95	2064	267.40	131	277.10	12139
249.95	800	259.90	295	268.00	243	277.80	203
250.50	274	260.20	177	269.00	289	278.05	2749
250.90	223	261.05	727	269.95	303	278.30	151
251.25	532	262.40	180	270.80	385	278.85	88
252.05	851	262.90	70	271.20	103	279.20	207
253.30	3345	263.15	364	272.25	1290	281.30	131

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
282.25	426	292.20	781	301.15	891	308.70	163
283.00	937	293.10	3173	302.15	860	309.00	590
284.00	605	293.80	499	302.40	341	309.40	939
285.05	1783	294.00	599	303.10	4517	310.10	725
286.15	675	294.80	595	303.90	221	310.30	195
287.95	275	296.10	33469	304.15	766	311.00	193
288.30	73	297.05	5461	305.30	500	311.80	216
289.20	277	297.60	378	305.90	165	312.70	140
289.70	72	297.90	145	307.00	269	313.15	337
290.05	527	300.00	143	307.70	340	313.70	158
290.95	9	301.00	261	308.20	253	314.20	1505

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
315.15	3561	321.10	893	328.80	87	337.10	81
315.90	861	322.30	1519	329.70	217	338.90	117
316.10	1519	323.10	13341	331.00	91	339.20	149
316.70	382	324.10	2738	331.70	306	339.90	198
317.15	636	324.50	370	332.10	929	340.50	106
318.60	219	325.60	193	332.30	156	341.20	1165
319.05	234	326.10	70	332.80	338	342.20	477
319.50	80	326.50	317	333.25	1446	343.00	241
319.90	171	327.10	1749	334.10	8709	345.10	209
320.55	720	328.10	949	335.20	2021	345.60	939
320.90	315	328.30	111	335.90	95	346.10	1718

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms

DFTPP5P.M Mon May 02 14:14:58 2016 RPT1 Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.70	397	355.50	92	366.00	1879	377.20	102
347.20	224	355.90	130	366.20	1202	380.40	300
348.10	173	356.70	71	369.45	232	381.60	77
349.20	76	357.10	125	369.80	113	383.10	2356
350.70	82	360.25	320	370.00	128	384.15	331
351.00	89	361.20	514	371.00	785	384.50	510
351.30	302	361.60	203	371.25	1755	390.05	612
352.10	4978	362.50	199	372.00	6294	390.70	251
353.00	2884	362.70	99	372.20	2355	391.10	35
354.15	5045	363.70	545	373.15	2351	391.40	422
355.20	912	365.05	18360	376.75	508	392.05	219

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
392.20	148	403.15	5179	418.50	95	425.25	407
392.40	97	404.15	1121	418.90	107	426.40	99
393.10	214	405.15	688	420.30	144	429.30	161
395.10	155	406.40	184	420.60	397	431.50	136
396.35	260	406.90	71	421.05	1820	436.45	411
396.90	149	408.80	171	421.20	1148	437.25	246
400.50	199	410.90	154	421.40	1670	437.50	88
401.00	240	415.15	473	422.15	5979	437.80	280
401.80	576	415.60	75	423.15	28909	438.00	101
402.05	1467	415.90	145	424.10	7225	438.40	427
402.30	1226	416.90	124	424.80	69	438.80	361

Average of 2.431 to 2.442 min.: 5p27875.D\data.ms
dftpp
Modified:subtracted

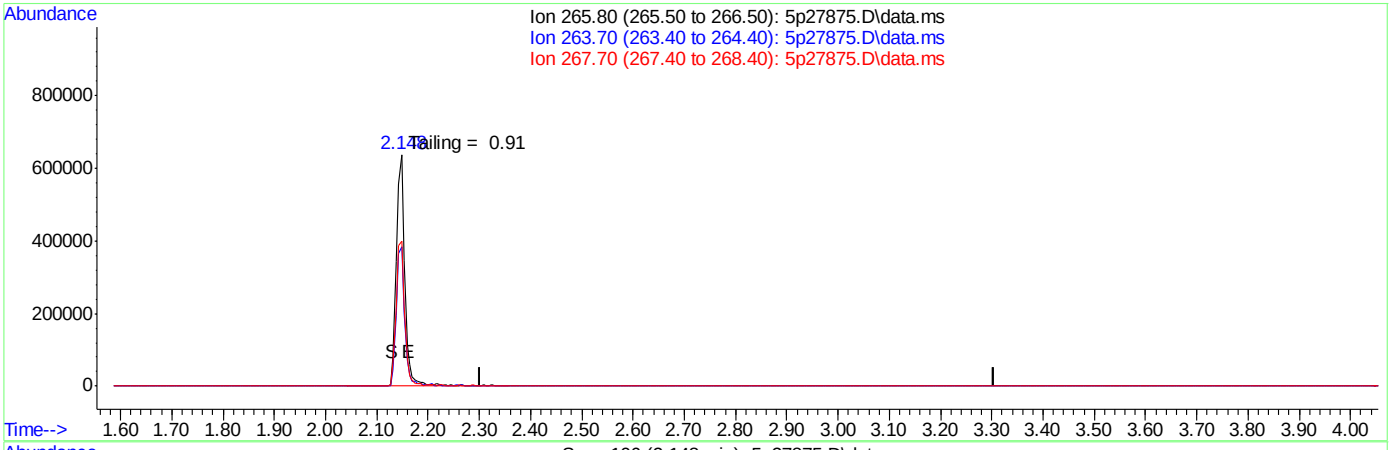
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
439.30	1362	471.30	159				
441.15	93053	477.20	148				
442.10	530453	481.40	150				
443.10	97333	484.90	126				
444.15	8774	487.10	96				
445.10	181	496.00	146				
446.40	141						
446.80	80						
451.00	135						
459.80	115						
464.80	101						

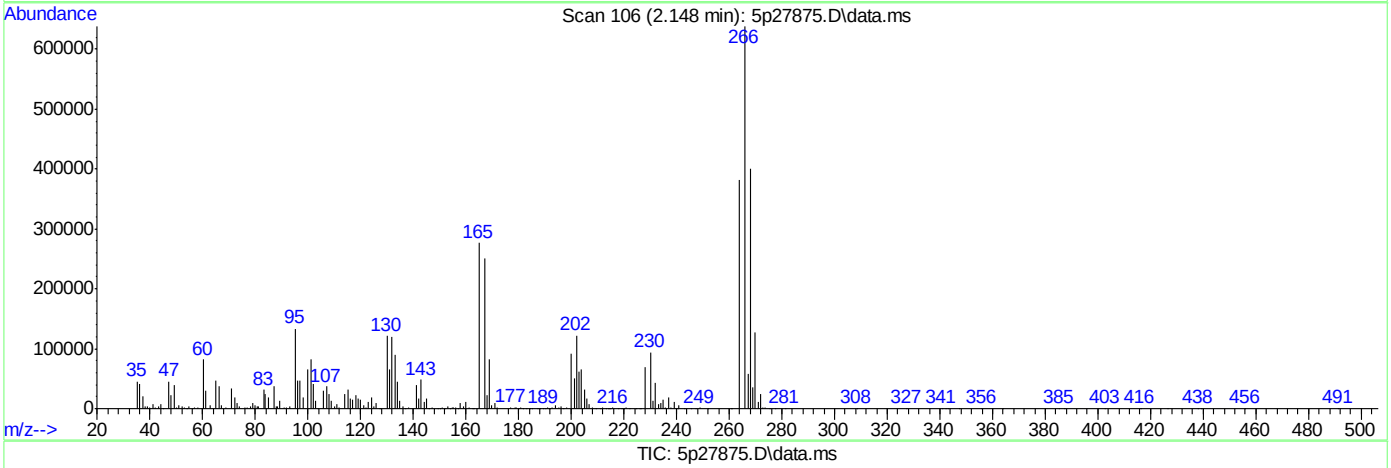
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27875.D
Acq On : 2 May 2016 10:24 am
Operator : ashleyn
Sample : dftpp
Misc : op93450,e5p1414
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 10:30:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





(1) Pentachlorophenol (MC)

2.804min (-2.804) 0.00ng

response 0

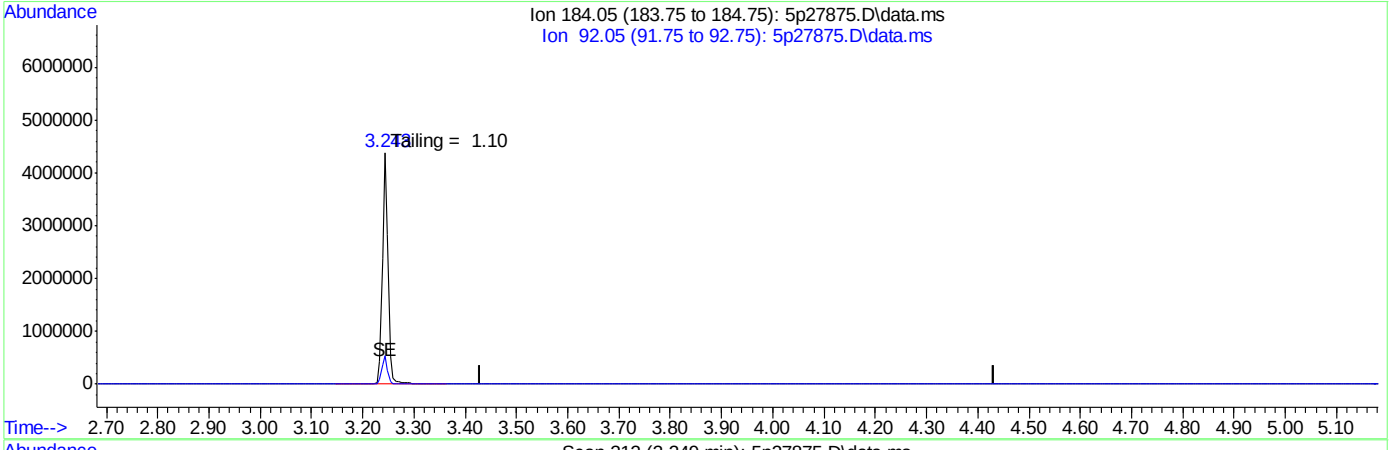
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

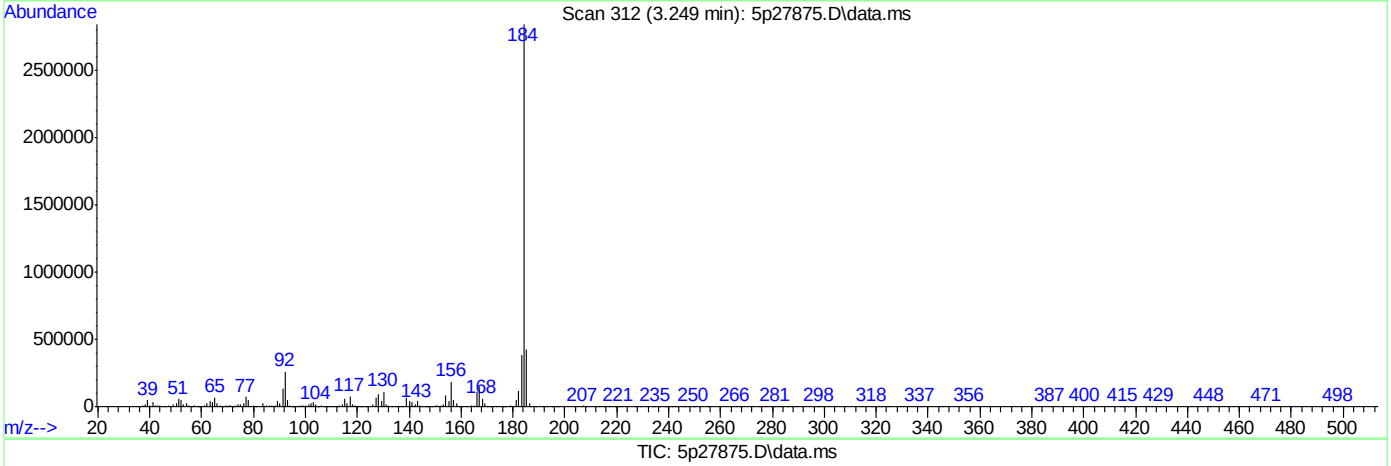
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27875.D
Acq On : 2 May 2016 10:24 am
Operator : ashleyn
Sample : dftpp
Misc : op93450,e5p1414
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 10:30:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





(2) Benzidine (M)

3.931min (-3.931) 0.00ng

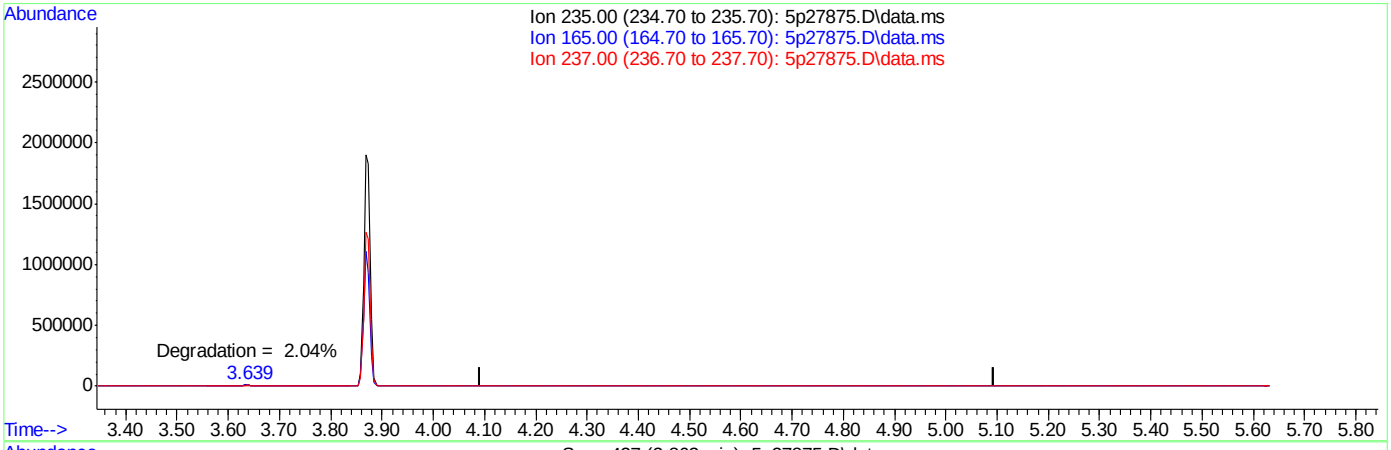
response 0

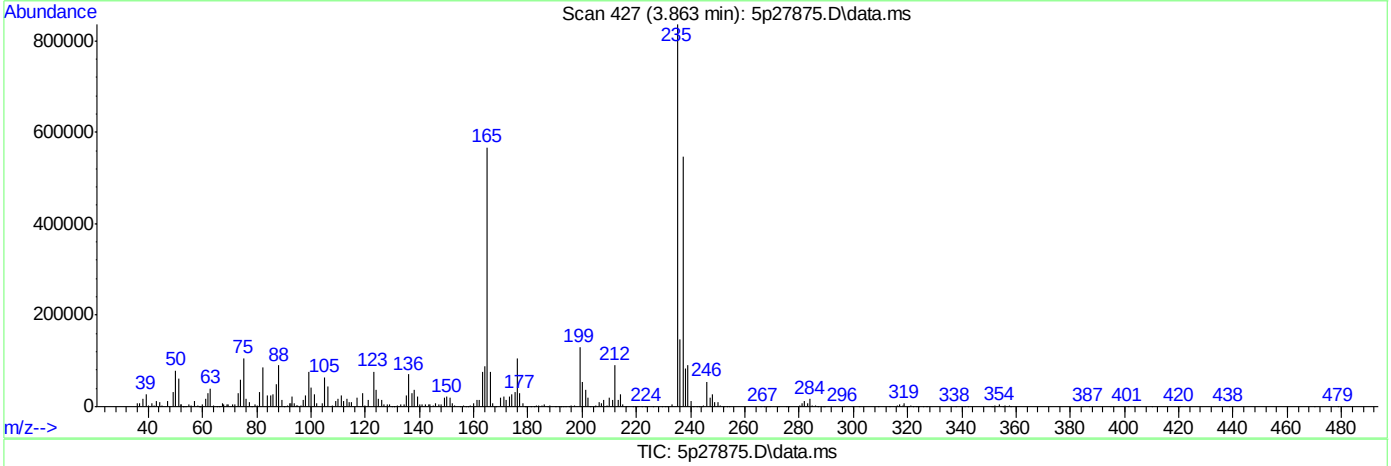
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27875.D
Acq On : 2 May 2016 10:24 am
Operator : ashleyn
Sample : dftpp
Misc : op93450,e5p1414
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 10:30:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p27875.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

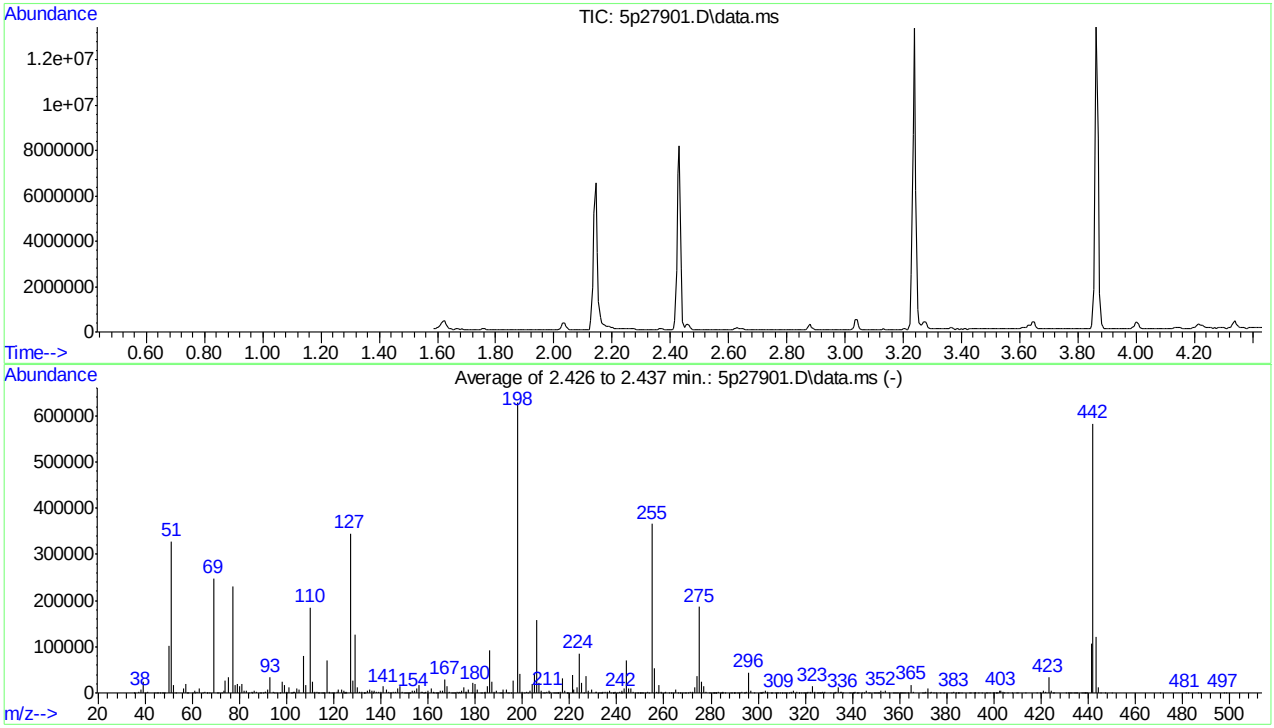
Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27901.D
Acq On : 3 May 2016 8:27 am
Operator : ashleyd
Sample : dftpp
Misc : op93450,e5p1416
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



AutoFind: Scans 158, 159, 160; Background Corrected with Scan 143
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.1	327868	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.5	248306	PASS
70	69	0.00	2	0.0	69	PASS
127	198	40	60	55.0	345885	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	628842	PASS
199	198	5	9	6.7	42331	PASS
275	198	10	30	29.6	186237	PASS
365	198	1	100	2.7	17211	PASS
441	443	0.10	100	87.6	106200	PASS
442	198	40	100	92.8	583338	PASS
443	442	17	23	20.8	121253	PASS

DFTPP5P.M Tue May 03 12:13:49 2016 RPT1 Page: 1

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	235	47.25	338	60.20	407	70.70	69
35.30	228	47.90	988	60.80	352	70.95	855
37.15	2820	48.10	498	61.10	4427	72.30	378
38.15	6445	50.10	101069	62.10	3389	73.15	3941
39.10	24819	51.05	327868	63.10	9276	74.05	25674
40.05	676	52.10	17410	64.10	1192	75.10	34230
41.05	2378	53.15	1248	65.05	3536	77.05	231192
44.10	1148	56.10	9667	66.00	332	78.10	16273
45.05	115	57.05	20113	66.40	348	79.00	18932
45.30	318	57.80	473	67.20	392	80.00	14139
46.20	236	58.20	534	69.00	248306	81.05	20609

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.05	4457	91.15	1340	101.00	11142	112.05	3076
83.00	3867	91.95	6519	102.00	1014	113.00	1483
84.00	1195	93.00	34636	102.25	761	113.20	267
85.05	3243	94.10	2030	102.90	2909	113.85	1251
85.30	561	94.80	261	103.10	2130	114.80	508
86.10	5339	95.90	764	104.10	8851	115.40	588
87.15	2884	97.00	466	105.10	6618	115.70	722
88.60	173	98.00	24599	107.05	81325	115.90	722
89.05	672	99.05	16700	108.00	15990	117.00	69964
89.90	133	100.00	1473	110.10	185088	117.95	3131
90.85	1889	100.20	733	111.05	23685	118.30	414

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.90	77	127.10	345885	136.10	4192	145.15	1375
119.30	1014	128.05	27784	136.40	219	146.00	3030
119.95	1062	129.00	126148	137.10	4468	147.15	10179
121.20	1547	130.05	11439	138.20	1703	148.05	13501
122.10	6766	131.00	2278	139.15	1345	149.10	3361
123.10	8066	131.95	1452	140.10	1542	150.00	608
124.05	5376	132.60	126	141.10	14517	150.35	461
124.40	368	132.90	746	142.10	6477	151.00	702
124.90	572	133.15	508	143.05	1638	151.40	920
125.20	3704	134.00	4261	143.80	93	151.75	1199
125.40	320	135.05	7825	144.20	887	152.30	916

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.05	4452	162.05	2351	170.30	131	177.05	8056
154.15	4370	162.50	201	170.90	988	178.25	969
155.15	9915	163.10	637	171.10	1154	179.05	21987
156.10	16841	163.50	536	172.15	2344	180.10	18432
157.15	3426	164.30	409	172.80	302	181.05	6197
157.65	1576	165.05	4646	173.10	2805	182.10	1161
158.00	970	166.05	4559	173.90	695	182.95	824
158.30	805	167.10	29315	174.20	5654	183.80	768
159.10	2380	168.10	14324	175.10	12106	184.05	1808
160.05	4976	169.05	2024	176.00	1831	185.10	13838
161.10	8778	169.90	874	176.20	1953	186.10	92720

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
187.05	24120	196.05	26754	207.05	22231	214.80	230
188.05	1834	198.00	628842	208.00	4185	215.10	669
189.00	4631	199.00	42331	209.00	1156	215.30	276
190.20	1206	200.00	1838	209.40	390	216.05	2491

DFTPP5P.M Tue May 03 12:13:49 2016 RPT1 Page: 2

190.90	344	200.90	1263	210.20	3051	217.05	32480
191.30	1212	201.65	3518	211.05	4869	218.05	4841
192.00	6934	202.00	521	211.40	811	218.70	101
193.05	7347	203.10	5711	211.70	1759	219.10	119
193.85	1294	204.20	20600	213.20	759	219.50	401
194.20	549	205.10	41801	213.70	91	221.10	38800
194.90	214	206.10	157664	214.30	398	221.70	6917

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
223.15	11695	233.20	1029	239.10	1337	248.05	1138
224.10	85194	233.50	547	240.05	1023	248.70	269
225.10	21014	233.80	388	241.00	2498	249.00	1259
226.00	401	234.15	1867	241.80	281	249.80	73
227.10	35968	235.00	2645	242.15	4102	250.00	411
228.00	4283	236.05	2104	242.40	597	250.40	120
229.10	6375	237.05	3983	243.25	8789	250.85	355
231.00	1356	237.65	573	244.10	69866	251.30	289
231.15	1684	238.20	98	245.10	10112	252.15	1291
231.95	165	238.50	458	246.10	10562	253.05	2763
232.60	228	238.90	928	247.10	2680	253.50	780

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
255.10	365866	263.10	318	272.30	1367	281.20	111
256.10	54408	263.90	554	273.10	13409	281.70	161
257.00	3671	265.05	7893	274.20	37128	281.90	283
257.20	1084	266.00	271	275.10	186237	282.10	194
258.10	16733	266.70	94	276.05	25486	283.20	2193
258.80	1032	267.00	415	277.10	14047	284.05	686
259.05	2625	267.90	74	278.05	2687	284.40	529
260.30	26	269.00	198	279.05	654	284.70	468
260.95	1388	269.30	112	279.90	204	284.90	540
262.25	161	270.20	538	280.65	268	285.15	2524
262.90	199	271.00	1337	281.00	74	286.00	284

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.20	121	295.15	2908	305.20	270	313.10	595
288.95	1057	296.10	44165	305.90	89	314.00	1054
289.60	268	297.05	5906	307.30	260	314.15	1941
289.90	266	298.40	176	307.80	420	315.05	5428
290.15	188	300.50	86	308.05	592	316.15	3273
291.10	514	301.00	259	309.20	497	317.10	1077
291.40	177	301.20	521	310.00	327	317.30	163
292.05	919	301.50	437	310.20	304	318.30	75
293.05	3575	302.20	1681	311.30	85	319.15	223
294.10	1152	303.15	4652	311.60	278	319.90	110
294.50	486	304.05	2093	312.30	263	320.20	442

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
320.70	257	326.90	1075	336.05	835	345.10	72
321.05	1783	327.15	1838	338.80	70	346.05	4109
321.90	92	327.80	473	339.10	247	347.00	958
322.20	2064	328.20	1674	339.90	111	347.30	128
323.10	15859	330.60	160	340.20	204	349.30	150
324.05	3565	332.10	828	340.40	206	349.80	185
325.00	175	332.60	1113	341.15	1726	350.20	413
325.30	290	333.10	1624	342.00	504	350.50	139
325.70	169	334.15	11813	342.20	358	351.00	261
326.25	192	335.10	2694	342.70	226	351.20	185
326.50	466	335.30	1785	344.00	359	352.15	5928

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms

DFTPP5P.M Tue May 03 12:13:49 2016 RPT1 Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
353.05	3212	361.60	163	372.20	9718	385.00	226
354.10	5919	361.90	392	372.90	143	385.25	202
355.15	1230	362.70	74	373.20	2417	386.10	106
357.20	104	363.25	520	374.45	233	389.50	71
357.70	157	363.60	645	375.40	90	390.15	1194
358.30	133	365.05	17211	377.00	75	391.25	620
358.90	360	366.00	2758	378.70	117	391.80	145
359.35	645	369.60	449	381.95	223	392.15	387
360.00	119	370.20	591	383.05	2623	393.40	146
360.70	109	370.35	470	384.05	730	394.60	143
361.10	149	371.15	1636	384.60	178	396.70	158

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
397.30	158	405.60	174	425.10	172	437.00	78
398.00	72	407.80	164	425.40	669	437.45	404
399.50	166	409.50	181	430.50	75	437.95	324
400.10	134	410.05	240	431.20	111	438.40	269
401.00	137	413.50	95	431.70	134	438.60	591
401.20	241	418.10	122	432.40	111	439.15	731
401.50	498	419.40	72	432.70	110	439.40	603
402.20	4237	421.15	4574	433.80	155	441.20	106200
403.05	5640	422.15	3486	434.20	137	442.10	583338
404.05	1703	423.15	34373	434.80	98	443.10	121253
404.50	142	424.20	5986	435.10	161	444.15	12555

Average of 2.426 to 2.437 min.: 5p27901.D\data.ms
dftpp
Modified:subtracted

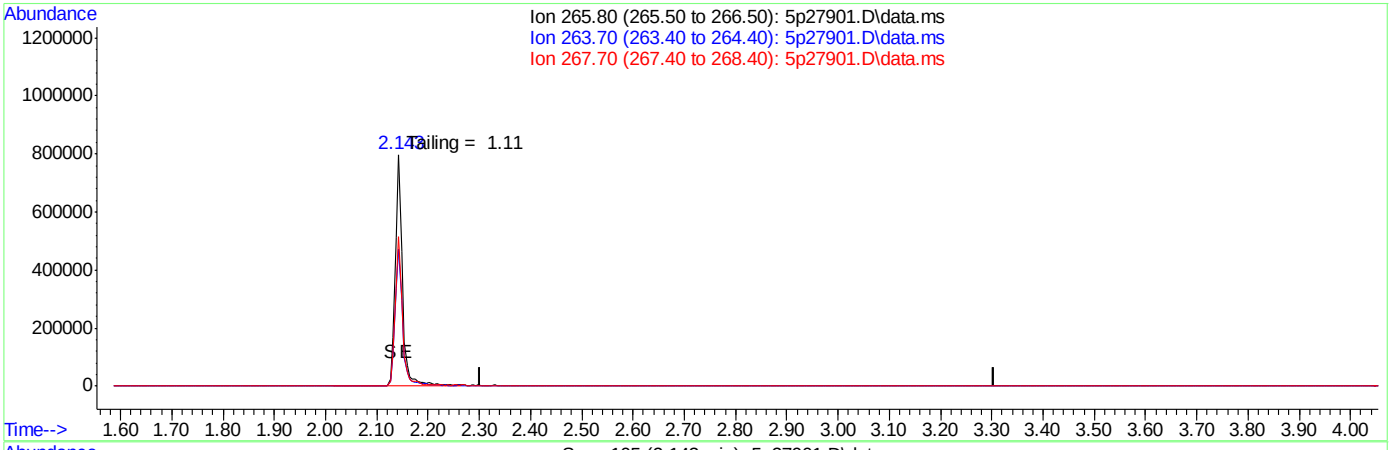
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
445.20	752						
447.30	77						
449.80	155						
470.50	143						
481.30	225						
482.40	139						
486.40	153						
487.40	140						
497.40	106						
498.30	93						

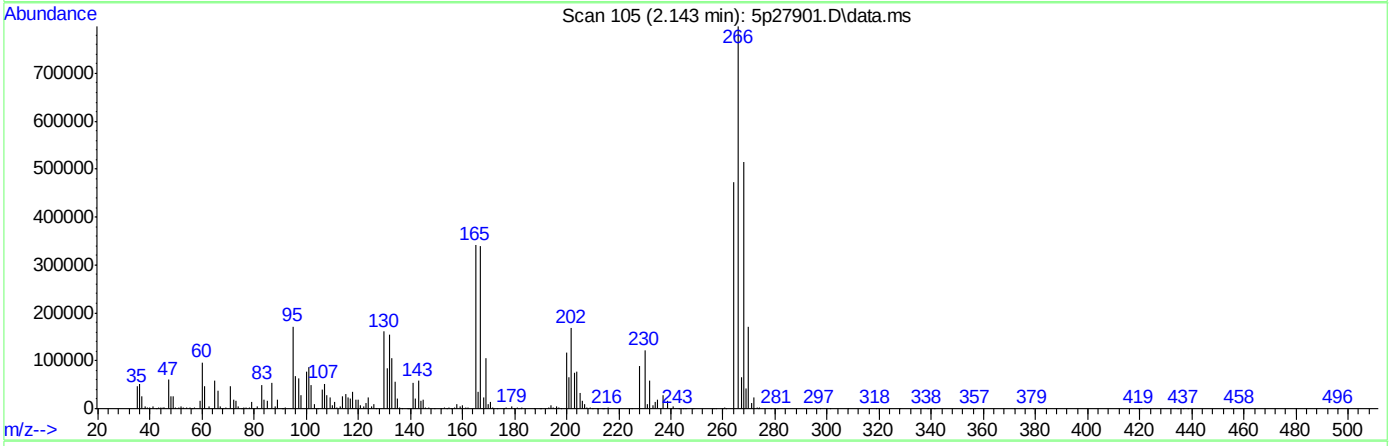
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27901.D
Acq On : 3 May 2016 8:27 am
Operator : ashleyd
Sample : dftpp
Misc : op93450,e5p1416
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 03 08:32:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





(1) Pentachlorophenol (MC)

2.804min (-2.804) 0.00ng

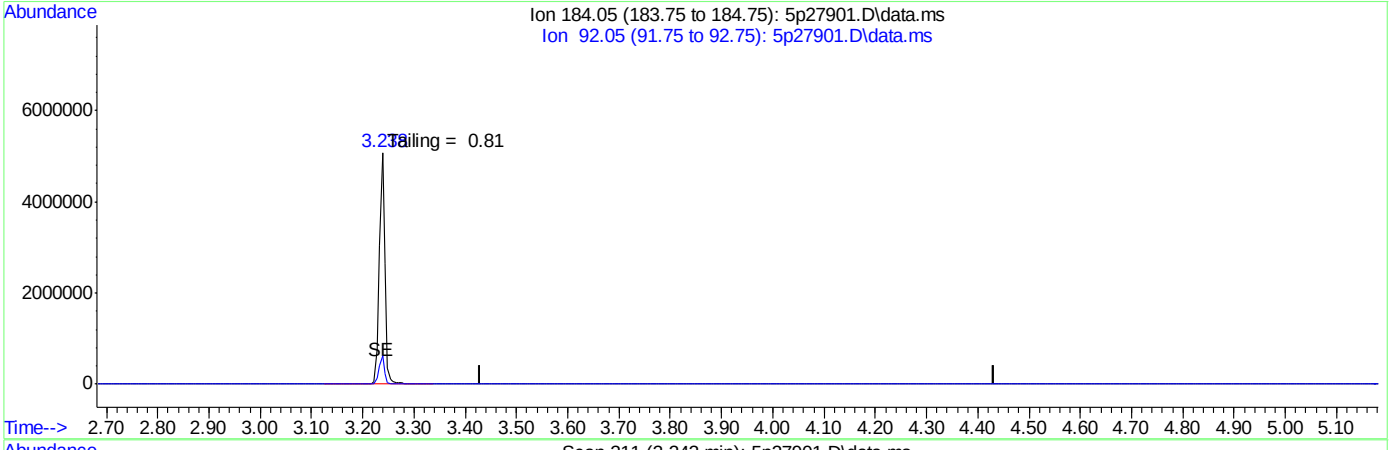
response 0

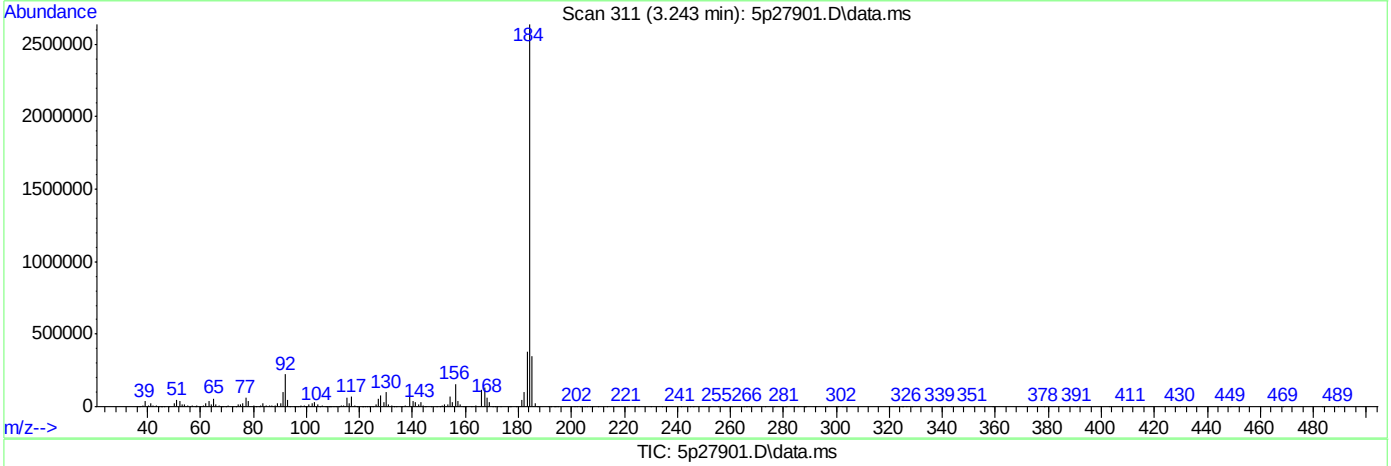
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27901.D
Acq On : 3 May 2016 8:27 am
Operator : ashleyd
Sample : dftpp
Misc : op93450,e5p1416
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 03 08:32:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





(2) Benzidine (M)

3.931min (-3.931) 0.00ng

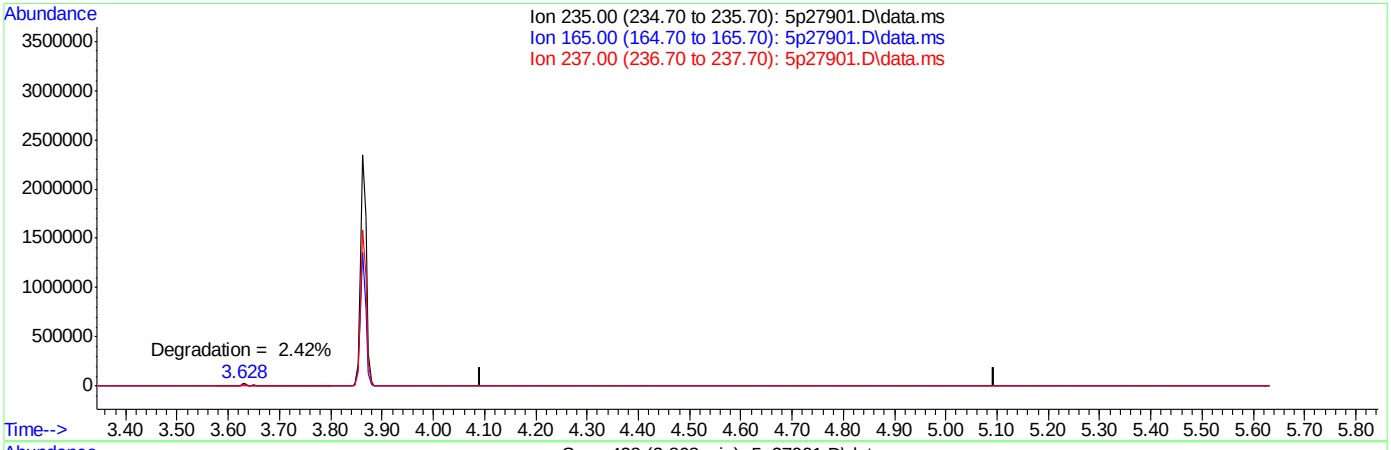
response 0

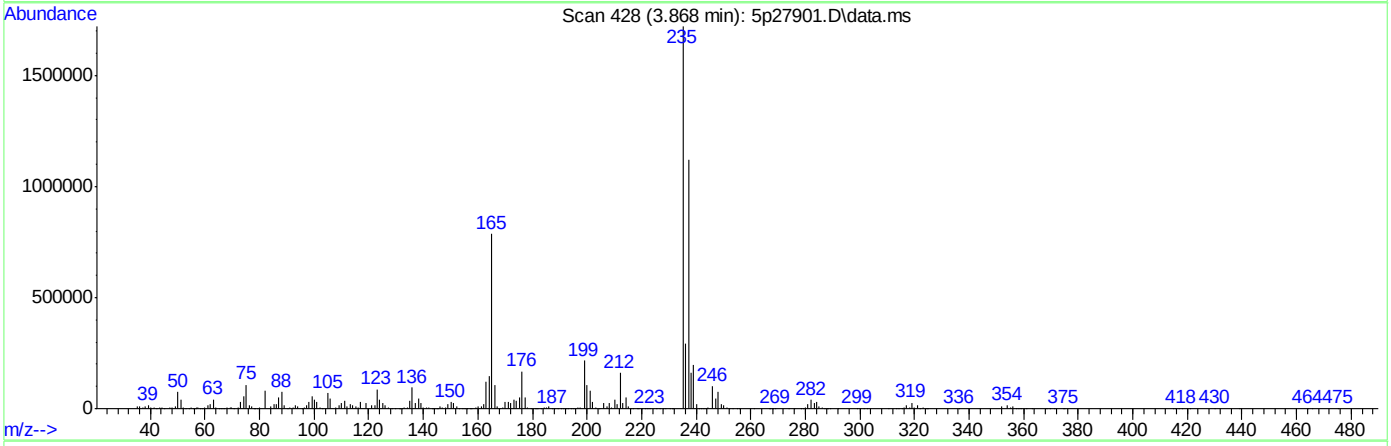
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27901.D
Acq On : 3 May 2016 8:27 am
Operator : ashleyd
Sample : dftpp
Misc : op93450,e5p1416
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 03 08:32:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p27901.D\data.ms

(3) PP-DDT (MC)

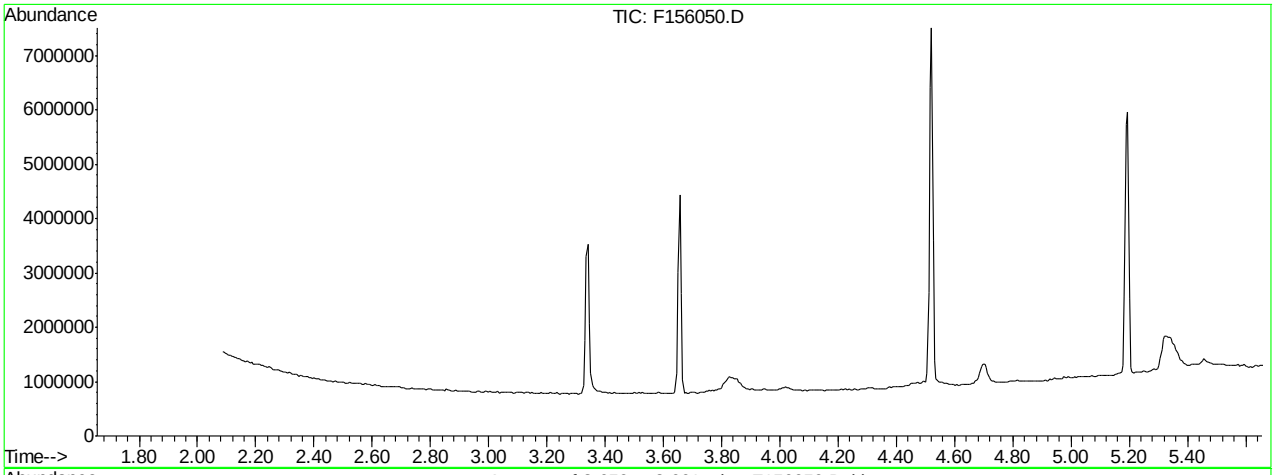
4.594min (-4.594) 0.00ppb

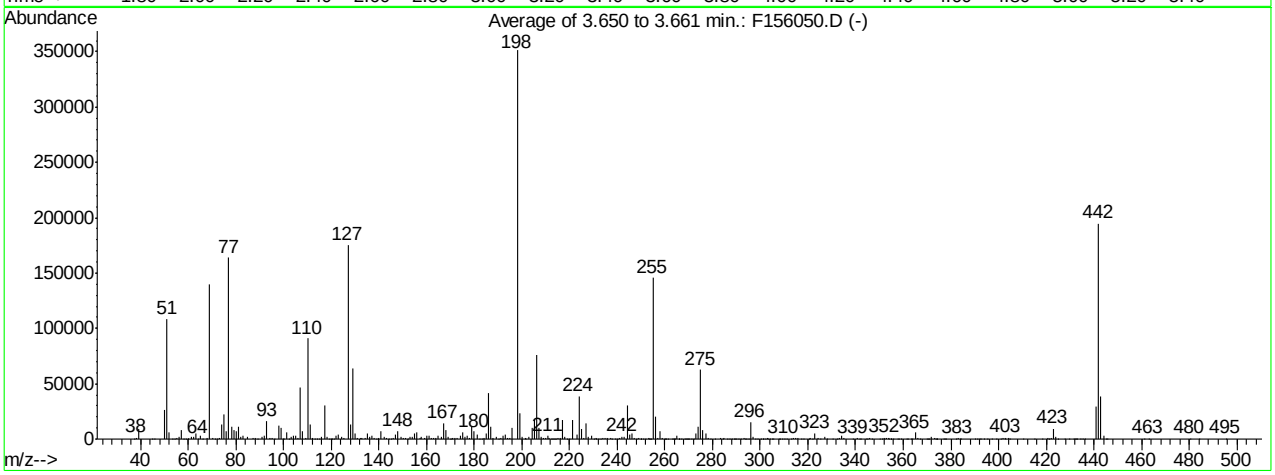
response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.9	108584	PASS
68	69	0.00	2	0.4	596	PASS
69	198	0.00	100	39.9	140032	PASS
70	69	0.00	2	0.5	642	PASS
127	198	40	60	50.0	175460	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	351082	PASS
199	198	5	9	6.6	23024	PASS
275	198	10	30	17.8	62466	PASS
365	198	1	100	1.6	5730	PASS
441	443	0.10	100	76.5	29498	PASS
442	198	40	100	55.5	194704	PASS
443	442	17	23	19.8	38575	PASS

F156050.D DFTPPF.M Tue Apr 05 08:58:18 2016 RT1

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	121	56.10	2199	66.00	127	78.10	11499
38.10	1475	57.10	8176	68.05	596	79.05	8614
39.10	9324	58.10	323	69.00	140032	80.05	7248
45.00	511	59.05	46	70.05	642	81.05	10934
45.90	115	60.00	329	71.10	195	82.00	2181
50.10	26475	60.10	39	72.00	349	83.00	3331
51.10	108584	61.10	1880	73.05	1066	85.05	2334
52.05	5725	62.05	1771	74.10	12924	87.00	1216
53.10	215	63.05	4830	75.05	21814	88.00	1338
54.10	62	64.05	543	76.10	7484	89.05	289
55.10	911	65.10	2744	77.05	163988	91.00	2470

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	2633	103.00	1713	113.85	350	124.10	1768
93.00	16334	104.05	3481	114.90	344	125.05	1397
94.10	1243	105.00	3203	115.95	2130	127.00	175460
95.10	687	106.10	1218	117.05	30135	128.00	12823
96.05	297	107.05	46722	118.00	2399	129.00	64327
98.00	11699	108.05	6997	119.00	151	129.95	5600
99.00	10166	109.10	753	120.00	387	131.05	599
99.90	353	110.00	90877	120.20	319	132.10	620
100.10	429	111.05	13190	121.15	409	133.00	595
101.05	5906	112.05	1333	122.00	2582	134.00	1539
102.00	451	113.00	458	123.00	3857	135.00	4877

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.05	1744	147.05	4585	157.95	1596	169.00	1573
137.10	2951	147.95	7382	159.00	1240	170.10	239
138.00	646	149.05	1699	160.05	2858	170.30	64
138.90	204	150.00	628	161.00	2965	170.95	1211
140.05	843	151.05	1260	162.00	774	172.00	1359
141.00	6969	151.95	410	163.00	610	173.00	1278
142.00	2410	153.00	1882	164.00	741	174.05	3573
143.00	1540	154.05	1929	164.95	2736	175.05	5852
144.05	466	155.10	4621	166.00	2181	176.05	2477
145.00	528	156.05	6490	167.00	14623	177.00	2801
146.05	1548	157.10	1173	168.05	8099	177.95	1127

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
179.00	11119	190.00	253	201.70	512	212.10	470
180.00	7086	191.05	899	203.00	1704	212.80	113
181.05	4124	192.00	3434	204.10	10276	213.10	360
182.00	455	193.05	3871	205.05	17348	213.70	51
183.05	461	194.05	910	206.10	75549	214.15	268
184.05	845	195.10	766	207.10	10008	214.90	577
185.05	5401	196.00	10568	208.05	1885	216.00	1141
186.10	41858	198.00	351082	209.00	601	217.00	17682
187.05	11420	199.00	23024	210.10	779	218.05	2187
188.05	931	199.95	1705	210.95	2624	219.00	209
189.05	1961	201.50	1343	211.55	1122	220.00	120

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.05	16981	232.15	291	243.05	2187	253.00	879
223.00	4309	233.15	393	244.10	30309	253.25	26
224.00	38517	234.00	545	245.05	4332	253.80	466
225.10	9646	235.05	1129	246.00	4946	254.00	316

226.00	1104	236.00	714	247.05	1138	254.95	145383
227.00	14705	237.05	1154	248.00	436	256.00	20745
227.95	1957	237.80	56	248.95	897	256.95	1371
229.00	3117	239.05	301	249.90	236	258.00	7130
230.00	453	239.90	483	250.10	183	259.05	928
230.90	209	241.00	854	251.10	353	259.70	65
231.05	883	242.10	2069	251.90	364	260.05	182

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
260.45	109	268.95	145	277.95	750	290.05	320
261.05	362	269.40	73	279.10	383	291.00	56
263.10	196	269.70	11	281.05	157	291.90	94
263.75	135	270.00	200	283.10	590	293.00	1314
264.00	199	271.00	363	284.10	413	293.90	81
264.20	127	272.00	387	284.95	670	294.10	199
264.95	2896	273.00	4768	286.25	243	294.90	201
265.70	276	273.95	11030	287.10	176	296.00	15656
266.00	166	275.00	62466	288.10	57	297.05	2264
267.10	268	276.00	8219	289.10	71	298.00	101
268.20	186	277.00	4810	289.25	277	298.70	52

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
300.10	165	309.10	264	322.00	194	338.90	94
301.00	186	310.10	323	323.00	5205	340.95	626
301.20	67	311.00	66	324.05	1075	341.80	104
302.05	269	313.20	206	325.10	92	342.10	77
302.90	452	314.05	642	327.00	1660	344.30	67
303.05	1367	315.00	1345	328.00	316	344.80	55
303.90	401	315.95	1017	330.20	64	345.95	1123
304.80	118	317.00	123	332.05	295	346.95	337
305.30	72	318.10	97	333.00	554	350.30	57
307.90	97	320.30	55	334.00	3443	351.00	53
308.10	100	321.00	739	335.00	659	351.90	190

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.10	1136	361.80	50	373.70	51	390.95	261
353.00	850	363.20	93	374.10	93	392.00	63
353.90	238	363.80	64	374.30	83	392.30	58
354.05	1167	365.00	5730	376.90	190	393.90	123
354.90	54	366.00	971	377.50	52	395.10	58
355.05	273	367.05	161	378.10	53	397.10	51
356.00	53	370.00	168	382.10	54	399.10	78
357.60	67	370.30	97	383.00	761	400.95	208
357.90	60	370.75	263	383.85	127	401.95	995
358.90	65	372.00	1944	384.10	53	402.80	239
361.20	167	373.00	674	390.05	446	403.00	1403

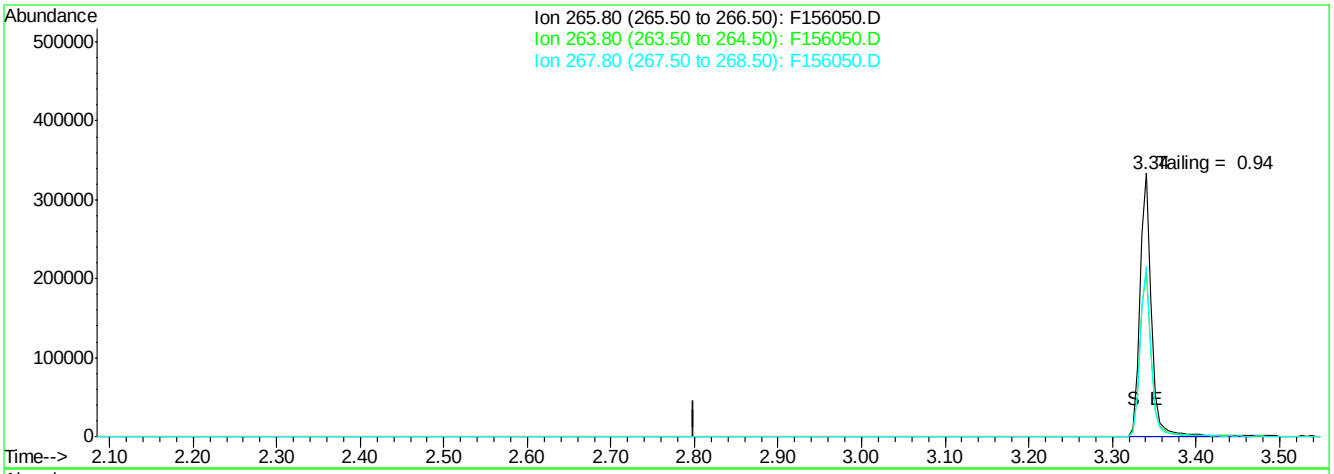
Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

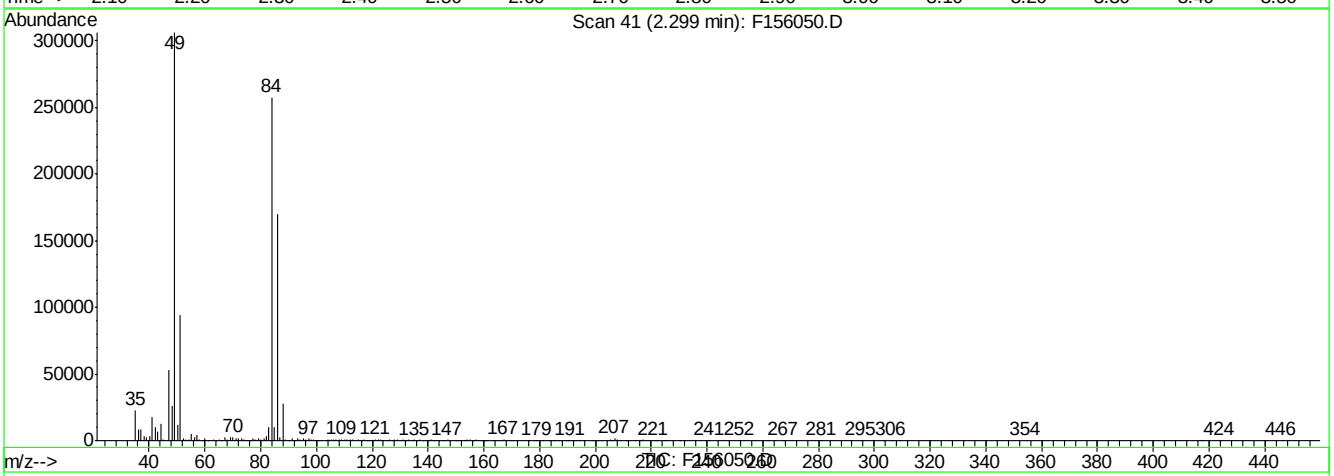
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
404.00	584	427.70	83	443.00	38575		
404.80	65	429.40	79	444.05	3498		
410.40	50	431.40	71	445.05	222		
415.10	112	432.10	134	445.50	51		
418.40	66	432.50	63	461.20	56		
420.90	861	432.90	122	463.00	83		
421.10	526	434.30	156	480.40	92		
421.95	1059	435.20	63	484.20	64		
423.00	9553	436.00	65	495.30	60		
424.00	2146	441.00	29498				
425.05	126	442.00	194704				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:00 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

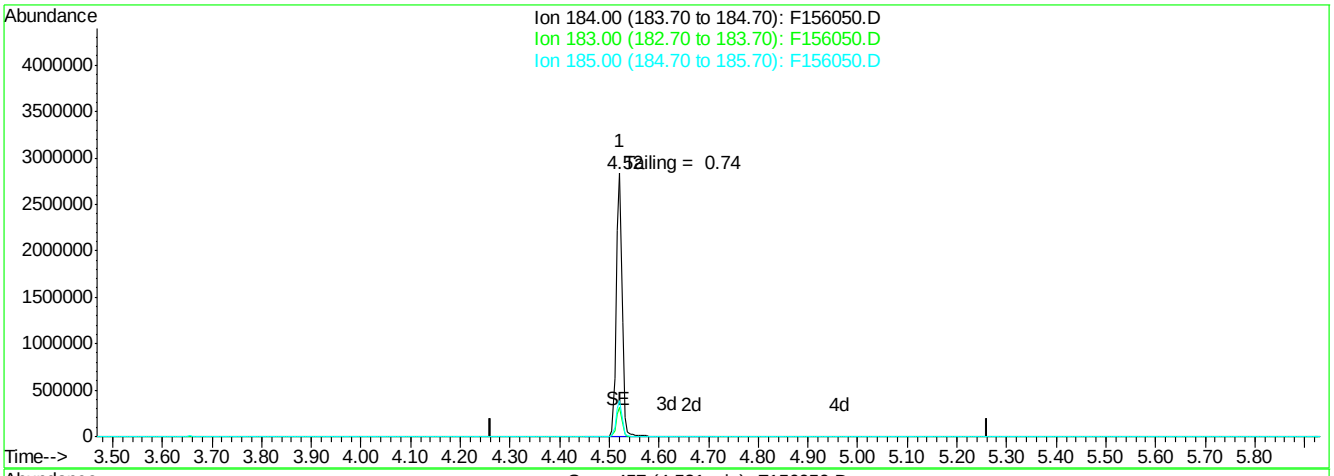
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

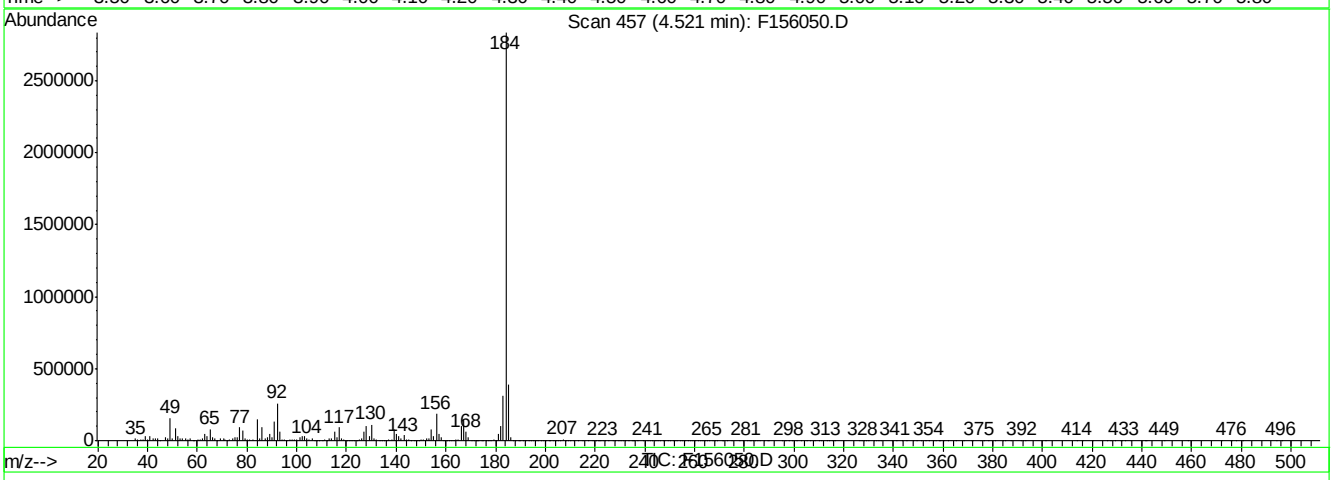
F156050.D DFTPPF.M Mon Apr 04 19:01:22 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 125.89ppb

response 2358304

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.87
185.00	16.20	13.85
0.00	0.00	0.00

F156050.D DFTPPF.M Mon Apr 04 19:01:32 2016 RT1

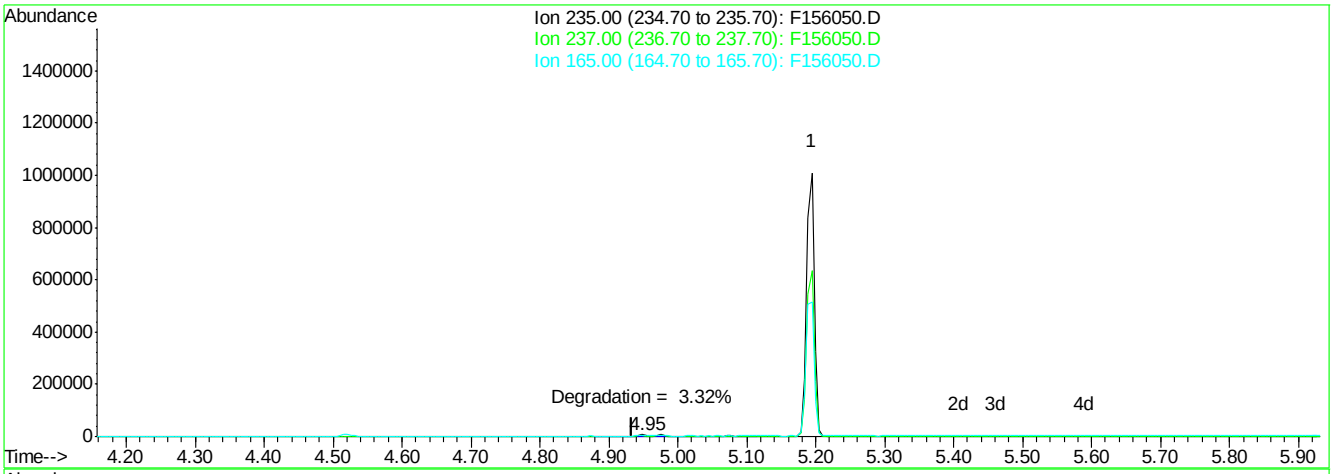
7.5.14.2

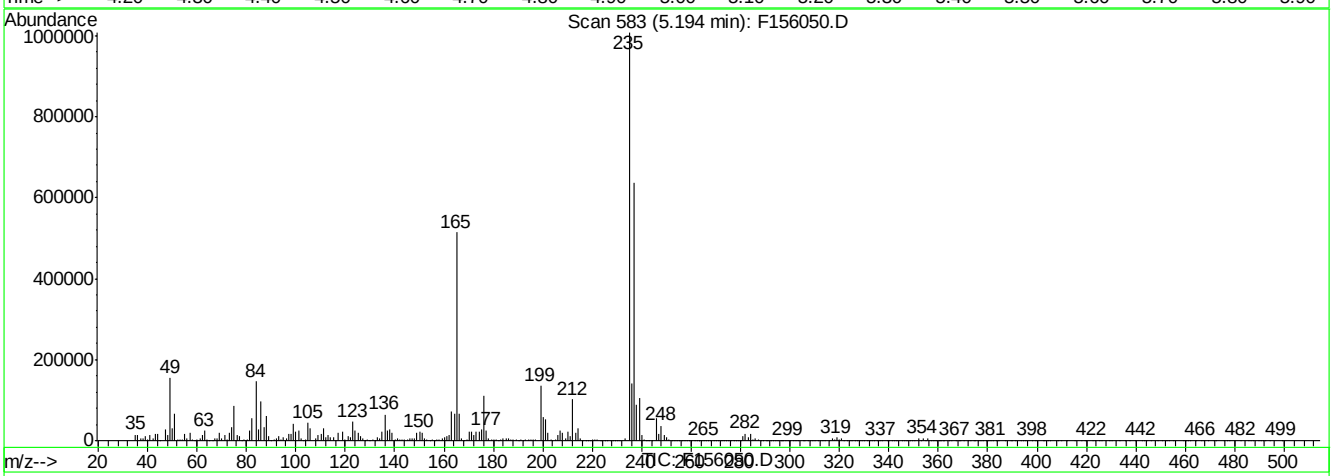
7

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.19min 50.20ppb

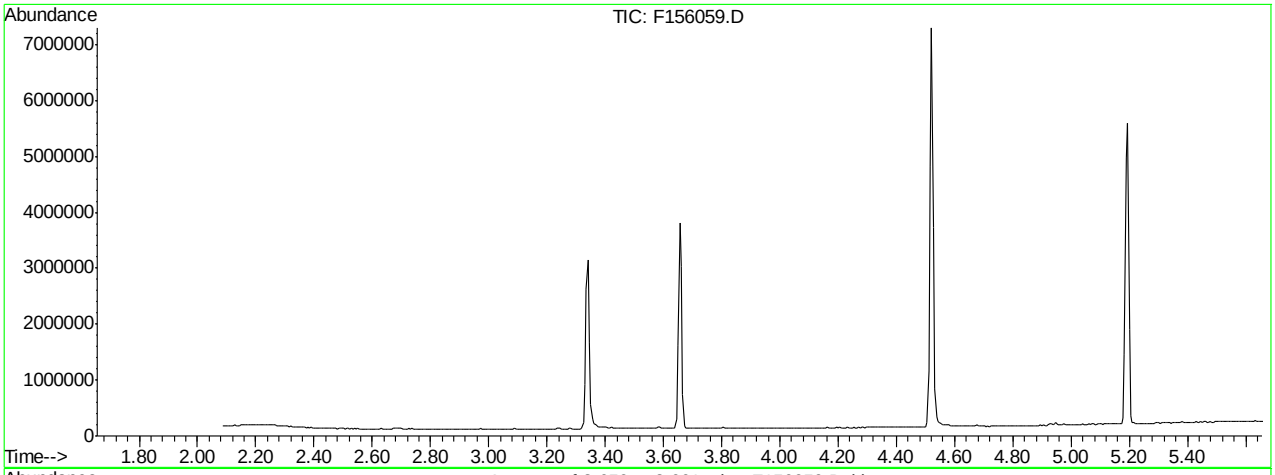
response 779578

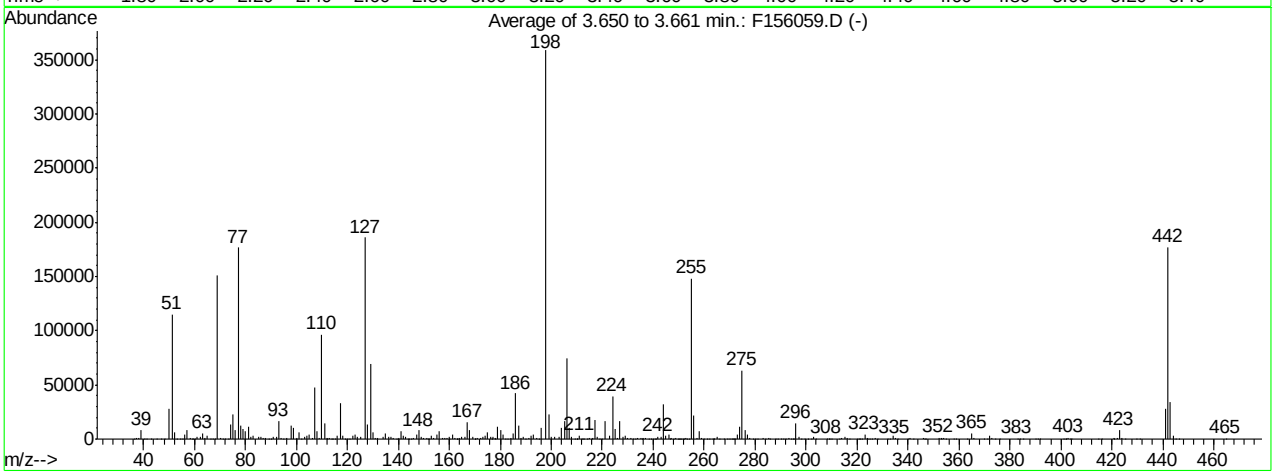
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.25
165.00	59.50	54.99
0.00	0.00	0.00

F156050.D DFTPPF.M Mon Apr 04 19:01:45 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.1	115179	PASS
68	69	0.00	2	0.1	157	PASS
69	198	0.00	100	42.2	151437	PASS
70	69	0.00	2	0.5	785	PASS
127	198	40	60	51.9	186202	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	358677	PASS
199	198	5	9	6.5	23181	PASS
275	198	10	30	17.7	63472	PASS
365	198	1	100	1.5	5413	PASS
441	443	0.10	100	79.8	27575	PASS
442	198	40	100	49.5	177434	PASS
443	442	17	23	19.5	34561	PASS

F156059.D DFTPPF.M Tue Apr 05 09:44:21 2016 RT1

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	101	51.10	115179	61.10	1746	71.80	73
37.10	647	52.10	6200	62.10	1793	73.10	554
38.10	1311	53.10	252	63.10	5611	74.10	13037
39.05	8323	54.15	204	64.10	860	75.10	23122
40.05	441	55.10	276	65.10	2866	76.05	8284
41.10	389	56.10	3758	66.10	219	77.10	176491
43.10	114	57.10	8251	67.10	39	78.10	12704
45.10	71	58.10	758	68.00	157	79.10	9634
47.05	483	59.05	34	69.00	151437	80.05	7703
48.05	346	59.40	63	70.05	785	81.00	11177
50.05	27956	60.10	262	71.20	313	82.00	2523

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.10	2967	95.00	10	107.05	47593	116.05	2895
85.05	2033	96.05	697	108.05	7381	117.05	33243
86.00	2359	98.00	12220	109.05	1263	118.00	2779
87.00	1087	99.00	10890	110.00	96688	118.95	407
88.00	960	100.05	1205	111.00	14437	120.00	256
89.10	159	101.00	5862	111.90	459	121.00	284
90.00	72	102.00	482	112.05	1342	122.00	3048
91.00	2335	103.00	2269	112.90	627	123.05	4441
92.05	2422	104.05	3609	113.80	79	124.00	1683
93.05	17061	105.05	3684	114.00	101	125.00	2068
94.05	1272	106.10	1410	115.10	289	127.00	186202

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	13730	139.95	594	149.95	896	159.90	554
128.95	69021	141.00	7558	151.05	1092	160.05	2046
130.00	5740	142.05	2861	151.60	283	161.05	3971
131.00	1240	142.95	1628	152.05	256	162.00	830
131.95	628	143.70	136	153.00	2738	162.85	316
134.00	1770	144.10	522	154.00	1359	163.10	248
135.00	5452	145.05	535	155.05	4416	164.05	629
136.05	2251	146.00	1211	156.05	6855	165.00	2524
137.05	2589	147.00	3706	157.15	1431	166.00	2604
138.10	583	148.00	8220	158.00	1275	167.05	15875
139.15	306	149.00	2077	159.00	1316	168.05	8364

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.05	1700	177.90	192	188.10	1460	200.05	1677
170.00	168	178.05	832	189.00	2476	201.50	1904
170.25	453	179.00	11250	190.00	484	203.00	2172
171.00	804	180.05	7935	191.00	1054	204.00	10164
172.05	1051	181.05	4199	192.05	3300	205.05	17072
173.05	2277	181.95	497	193.05	4197	206.10	74245
174.00	2790	182.95	497	194.05	878	207.00	9933
175.05	6057	184.05	737	195.05	522	208.00	1997
176.05	1945	185.05	5325	196.00	10444	209.05	410
176.80	323	186.05	42413	198.00	358677	210.00	511
177.00	2145	187.05	12306	199.00	23181	210.30	455

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
211.10	3591	219.80	171	232.00	337	240.95	501
211.90	163	221.05	16562	233.05	423	242.00	2453
212.10	158	223.00	3383	234.00	1016	243.05	2298
212.90	178	224.10	39349	235.00	1402	244.05	31834

214.20	57	225.05	9461	235.80	58	245.05	3589
215.00	855	226.05	1111	236.00	583	246.00	4699
215.90	205	227.00	16124	236.95	1420	246.70	89
216.05	1263	228.00	2042	238.05	330	247.05	1194
217.00	17655	229.00	3218	239.05	433	248.00	266
218.05	2283	229.95	590	239.95	427	248.90	1065
218.95	274	231.05	1351	240.80	107	249.85	224

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.10	96	258.00	7545	268.90	54	277.95	633
250.70	225	259.00	1105	269.95	238	279.05	217
251.15	272	260.00	189	270.80	257	280.10	51
251.70	87	261.00	329	271.10	131	281.05	415
252.05	297	262.10	88	271.70	172	283.00	831
253.00	871	263.50	65	272.15	265	284.10	523
253.40	315	263.80	165	273.00	4245	285.15	817
254.00	454	264.00	143	274.00	11599	286.00	94
255.00	148034	265.05	2447	275.00	63472	288.00	54
256.00	22204	265.90	496	276.00	8397	288.85	195
257.00	1309	267.90	152	277.05	4502	290.20	61

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.95	149	302.10	247	316.95	205	328.00	470
291.95	186	303.00	1987	320.20	51	332.10	412
293.05	1451	303.90	551	320.90	173	333.00	465
293.95	367	308.10	364	321.10	267	334.00	3432
294.90	70	309.00	106	322.05	284	335.05	767
295.10	145	309.20	88	323.05	4529	336.00	79
296.00	14754	309.95	185	323.90	146	340.00	178
297.05	2016	312.90	78	324.05	772	340.95	617
298.00	100	314.10	894	325.05	115	342.10	63
299.30	58	315.05	1782	326.00	63	346.05	1077
300.90	122	316.00	1001	326.95	849	346.70	169

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
347.00	116	370.00	203	392.00	178	422.00	1337
352.00	1458	371.00	426	401.00	53	423.00	8310
352.90	88	372.05	2666	401.85	228	424.05	1589
353.05	1025	373.05	614	402.10	351	425.05	283
354.00	1462	374.00	76	403.00	1361	429.80	115
354.95	374	376.10	64	403.80	56	430.90	52
357.90	59	383.00	543	404.10	504	441.00	27575
358.95	197	383.80	175	414.90	69	442.00	177434
363.00	72	385.00	114	416.00	57	443.00	34561
365.00	5413	389.95	280	420.70	147	444.00	3599
366.00	914	390.90	385	421.00	983	445.00	148

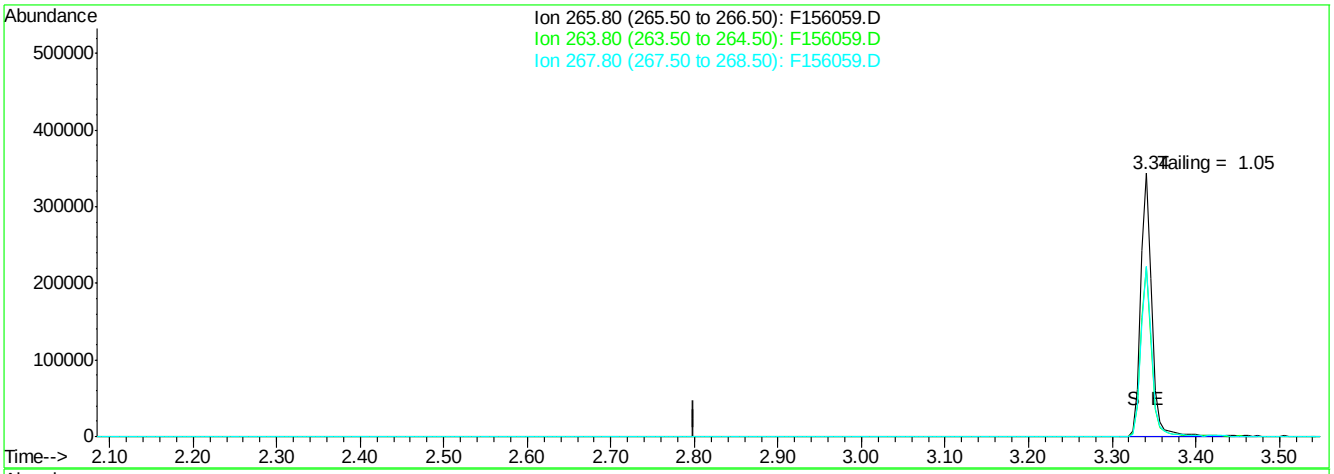
Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

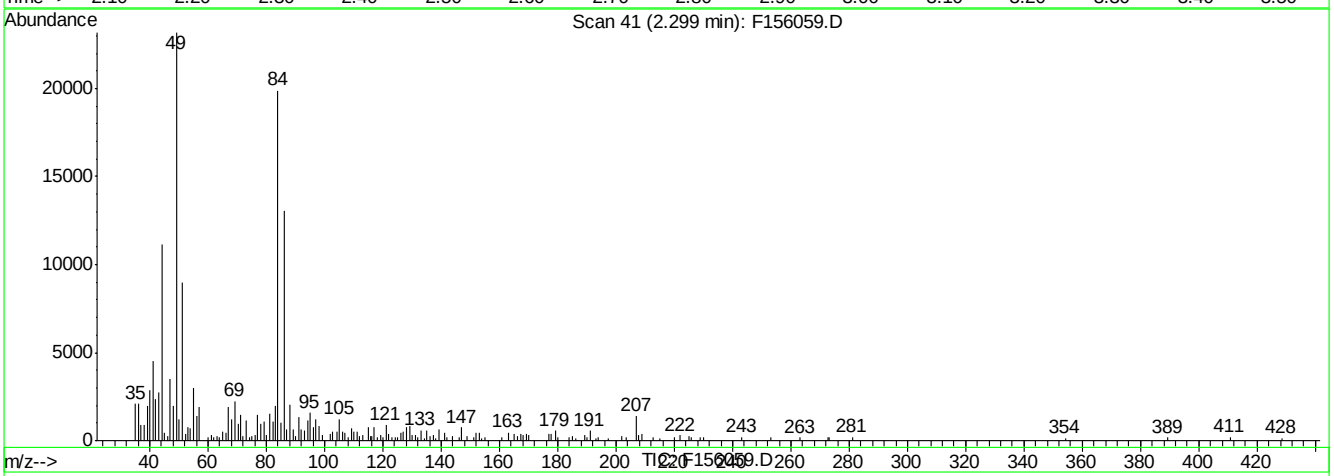
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
446.20	59						
464.70	59						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

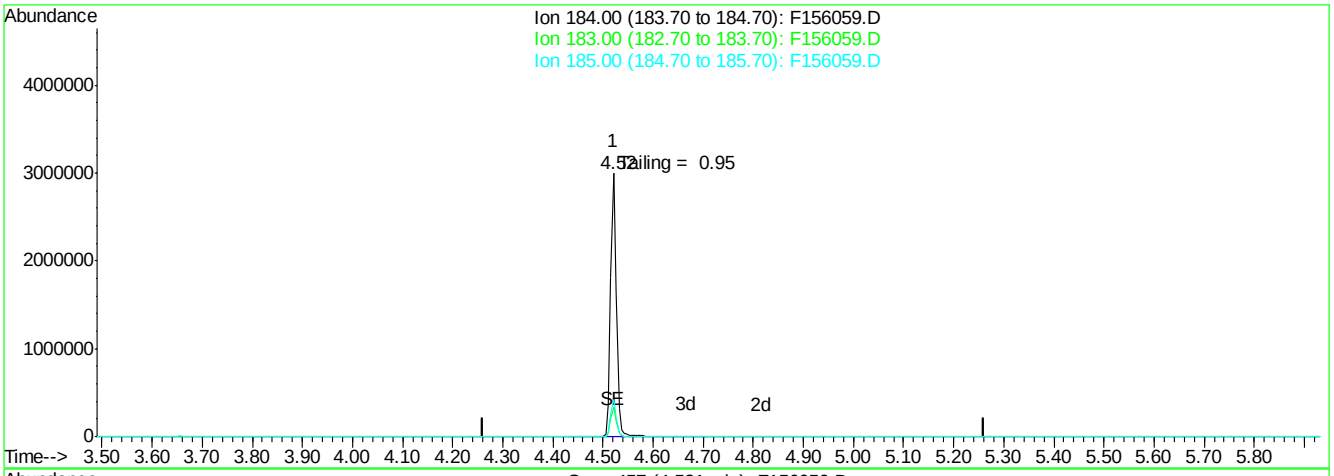
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

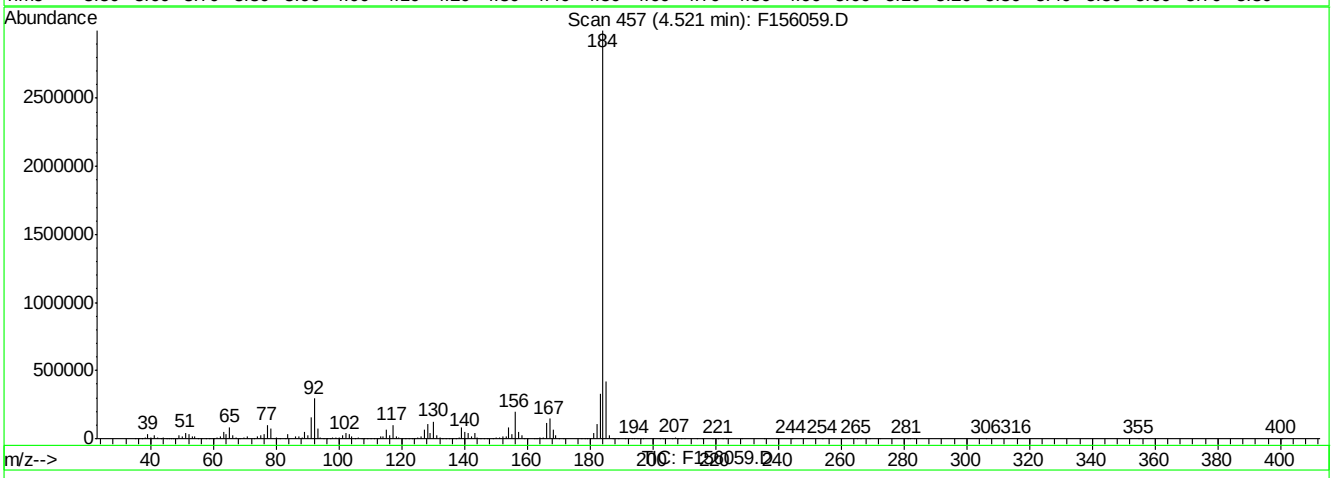
F156059.D DFTPPF.M Mon Apr 04 23:16:21 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 127.15ppb

response 2381841

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.83
185.00	16.20	13.82
0.00	0.00	0.00

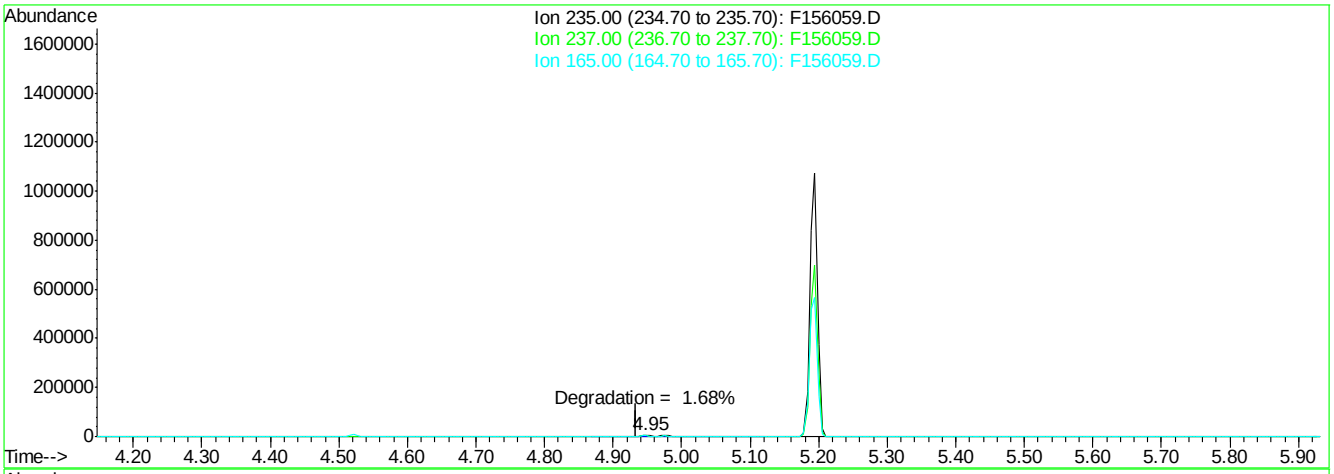
F156059.D DFTPPF.M Mon Apr 04 23:16:45 2016 RT1

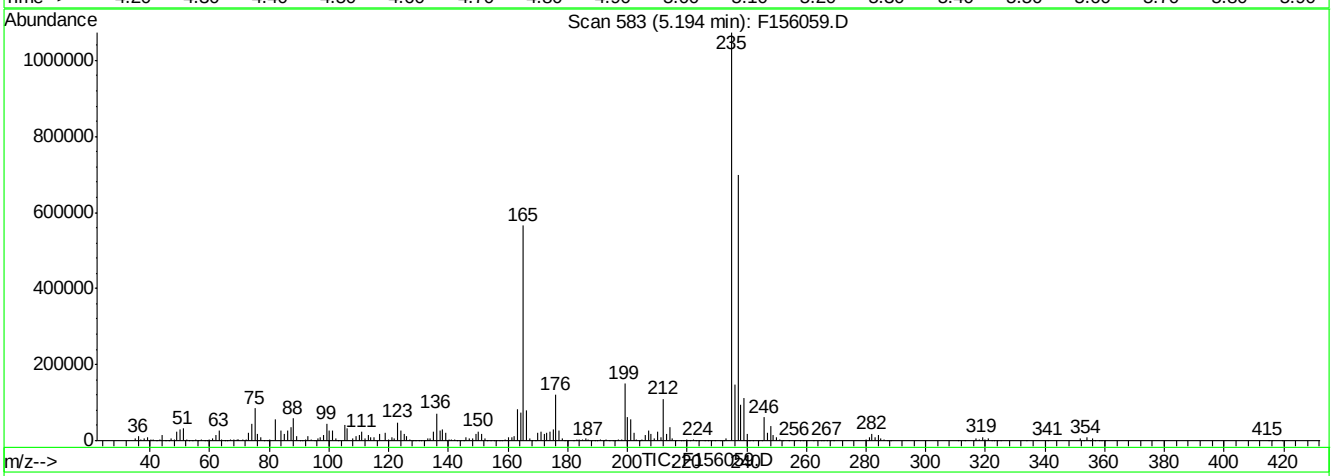
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.19min 51.98ppb

response 807232

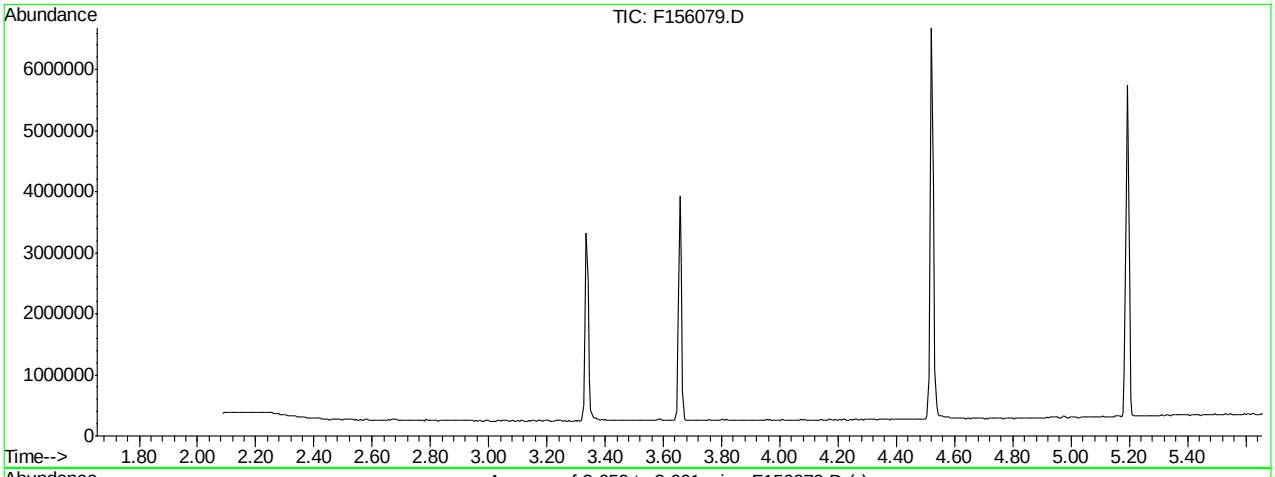
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.82
165.00	59.50	55.83
0.00	0.00	0.00

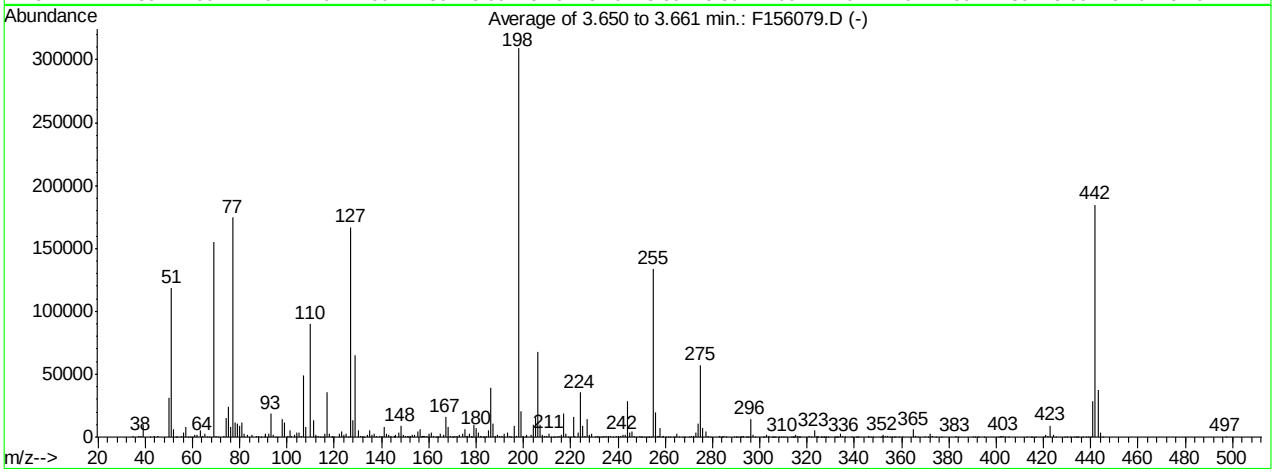
F156059.D DFTPPF.M Mon Apr 04 23:16:54 2016 RT1

SGS ACCUTEST JC19423

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6566\F156079.D Vial: 1
Acq On : 5 Apr 2016 1:58 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.2	118168	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	50.1	154947	PASS
70	69	0.00	2	0.6	884	PASS
127	198	40	60	54.0	166781	PASS
197	198	0.00	1	0.3	1052	PASS
198	198	100	100	100.0	308970	PASS
199	198	5	9	6.7	20614	PASS
275	198	10	30	18.6	57501	PASS
365	198	1	100	1.9	5929	PASS
441	443	0.10	100	76.3	28422	PASS
442	198	40	100	59.7	184536	PASS
443	442	17	23	20.2	37228	PASS

F156079.D DFTPPF.M Fri Apr 08 15:28:35 2016 RT1

SGS ACCUTEST JC19423

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	667	53.20	117	65.10	2941	78.05	11292
37.05	1026	55.05	658	66.20	101	79.10	10603
38.10	1273	56.10	4012	67.15	94	80.00	8673
39.10	9963	57.10	8411	69.00	154947	81.10	11796
42.05	120	58.05	36	70.05	884	82.05	2958
44.10	849	59.05	57	71.10	323	83.05	1951
45.15	596	60.00	356	73.05	603	85.00	2241
50.10	30786	61.10	1853	74.05	14782	87.00	1019
51.10	118168	62.10	1852	75.10	23834	87.95	1110
52.10	6110	63.10	5338	76.10	8405	89.00	358
52.90	57	64.10	997	77.05	174656	90.20	91

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	2779	103.05	1986	115.05	340	126.00	327
92.05	2769	104.05	3201	116.05	2739	127.10	166781
93.05	18570	105.05	3356	117.00	35881	128.05	13437
94.10	1384	106.00	1133	118.00	2918	129.00	65472
95.10	356	107.05	49400	118.90	145	130.00	5688
96.05	24	108.05	8109	119.10	512	131.10	1251
98.00	14724	110.00	89884	120.00	306	132.05	539
99.05	11486	111.05	13306	122.05	2696	132.40	99
100.10	1052	111.95	1519	123.05	4519	134.00	1462
101.05	5787	113.00	660	124.00	2036	135.00	5474
101.95	679	114.30	113	125.00	2583	136.05	1886

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.05	3135	147.05	3582	156.05	6422	164.00	454
138.00	801	148.00	8729	156.90	285	165.05	2755
139.05	484	149.05	2053	157.05	1090	166.10	1773
140.05	743	149.95	674	157.85	642	167.05	15693
141.00	7666	151.05	853	158.10	1011	168.10	7938
142.00	2660	151.30	357	159.05	1124	169.05	1374
143.00	2218	151.85	674	160.05	2607	169.85	269
144.15	547	152.10	208	161.05	3728	170.10	287
145.15	573	153.00	2180	162.10	1002	170.95	501
145.40	114	153.95	1935	162.95	239	172.00	1355
145.95	1435	155.10	4655	163.30	60	173.05	1662

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.10	2968	182.05	576	192.00	2903	203.05	1595
175.10	6074	183.05	371	193.05	3396	204.10	9477
176.00	927	183.30	93	194.05	782	205.10	15564
176.25	664	184.10	599	194.85	208	206.10	68202
177.00	2531	185.05	5307	196.05	9113	207.10	9492
177.90	149	186.10	39165	196.95	1052	208.05	2091
178.10	905	187.05	10709	198.00	308970	209.05	611
179.00	9970	188.15	1159	199.00	20614	210.05	993
180.05	6847	188.90	1918	200.05	1232	211.00	2973
181.05	3826	190.05	512	200.80	55	211.80	208
181.80	132	191.05	1295	201.55	1557	212.90	190

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.15	195	224.10	35469	233.90	1076	245.05	4005
213.95	130	225.05	9384	235.05	1254	246.05	4658
215.05	737	226.15	956	236.00	833	246.95	1017
216.00	1845	227.00	14629	237.10	960	248.00	205

217.00	18514	228.05	1864	237.80	97	249.05	1041
218.00	2638	229.00	2762	239.05	592	249.90	91
219.10	136	230.05	441	240.00	492	250.15	198
219.90	173	231.05	1285	241.05	869	251.00	113
221.05	15979	231.90	147	242.05	2033	251.95	271
221.80	1226	232.15	196	243.10	1945	253.00	296
223.05	3568	232.90	225	244.10	28169	253.20	321

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
254.00	206	263.70	99	275.05	57501	288.95	169
255.00	133373	264.05	309	276.00	7190	289.90	148
256.00	19713	265.00	2776	277.00	4591	290.20	98
257.00	919	265.90	367	277.95	735	290.85	161
257.20	561	267.05	102	279.10	51	291.90	129
258.00	7434	268.00	280	282.80	52	292.10	140
258.80	275	270.20	180	283.00	530	292.90	471
259.00	967	271.15	495	283.70	126	293.00	567
260.10	375	272.05	614	284.10	124	294.10	287
260.95	193	273.00	3969	285.00	990	294.90	111
261.90	51	274.00	10577	285.85	170	295.10	197

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
296.00	14716	308.10	349	316.70	95	327.10	421
297.05	1780	309.00	153	317.00	201	327.90	129
297.95	196	309.95	312	321.05	733	328.15	200
301.20	133	310.90	97	321.90	215	329.00	73
302.05	188	313.05	398	323.10	5126	331.90	276
302.95	1804	313.80	88	324.00	461	332.20	183
303.95	490	314.00	326	324.20	480	332.90	384
305.00	65	314.20	323	324.70	86	333.10	276
305.80	81	314.90	151	325.90	74	334.05	2760
306.00	61	315.05	1456	326.20	71	335.05	966
306.80	50	315.95	908	326.85	363	335.90	142

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
339.00	70	353.00	1136	369.85	155	392.30	97
340.80	126	354.00	1339	370.95	441	394.80	57
341.05	330	355.00	389	372.10	3032	401.15	216
341.95	217	355.90	57	373.05	659	401.90	541
345.80	118	357.10	76	374.50	58	402.10	456
346.00	1033	357.50	50	376.85	156	403.05	1060
347.00	235	358.90	91	382.95	770	404.05	415
348.10	117	360.00	71	384.10	58	405.20	87
351.00	93	365.00	5929	389.95	354	412.90	66
351.90	102	365.95	1070	391.00	311	414.80	54
352.10	1430	366.85	222	392.00	186	415.10	112

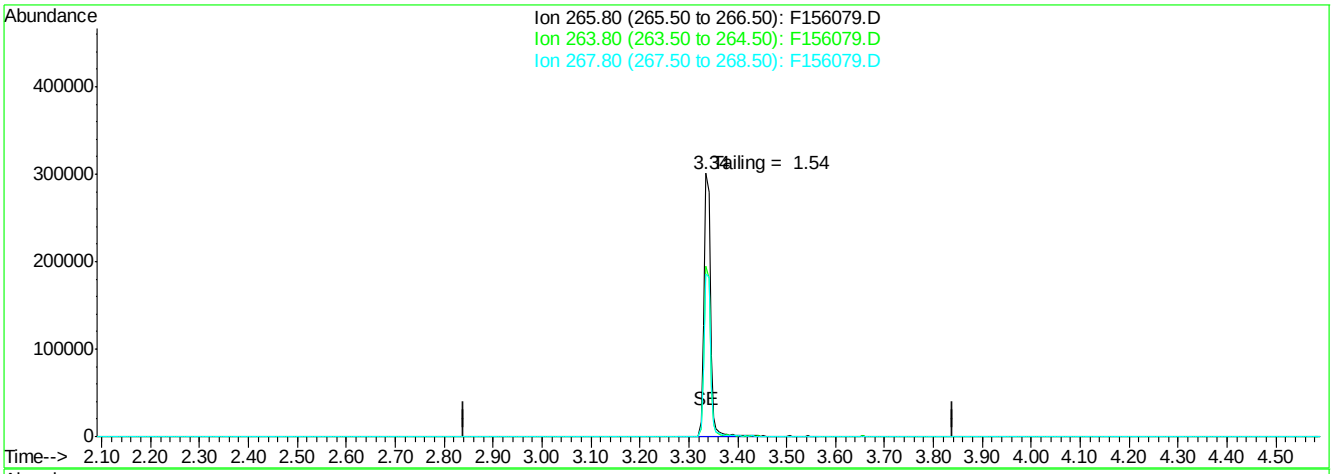
Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

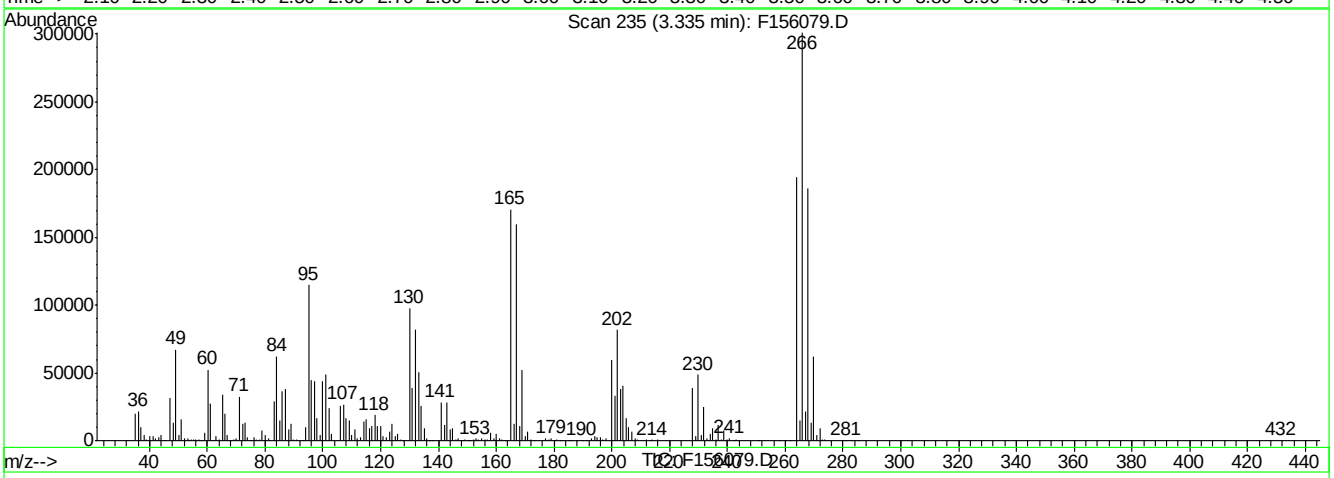
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
416.60	56	433.70	118	444.90	67		
420.00	111	434.00	50	497.10	50		
421.00	1411	434.90	75				
422.00	924	436.80	114				
423.00	9097	437.80	61				
424.10	2024	438.90	143				
425.05	224	439.80	56				
429.10	92	441.00	28422				
429.90	66	442.00	184536				
431.45	141	443.00	37228				
432.60	97	444.10	3196				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156079.D Vial: 1
Acq On : 5 Apr 2016 1:58 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 8 15:27 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Fri Apr 08 15:27:53 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

3.34min 149.84ppb

response 278544

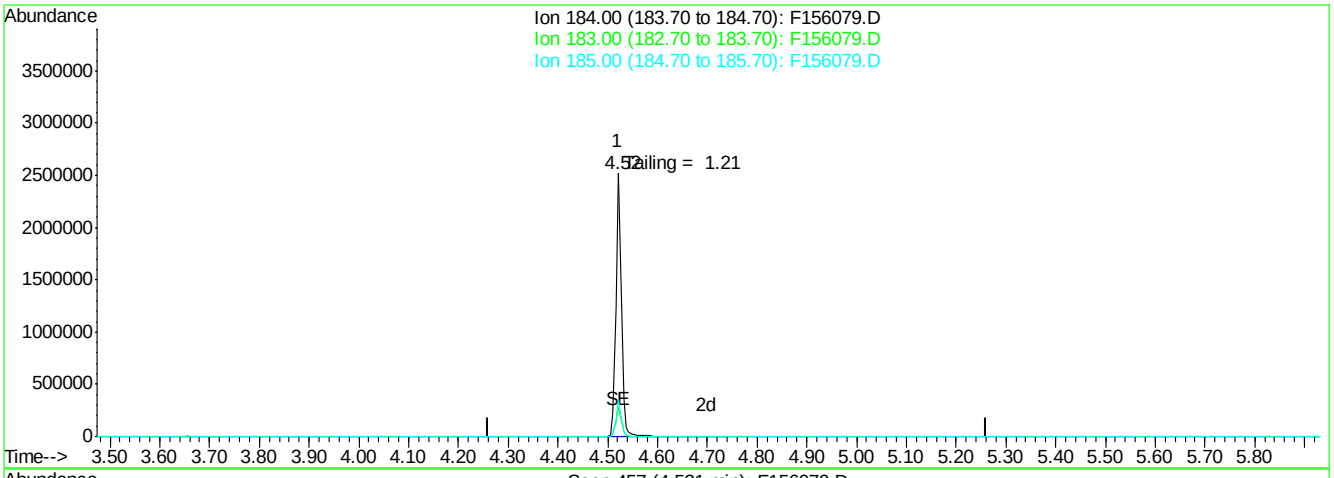
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	64.60
267.80	64.80	61.71
0.00	0.00	0.00

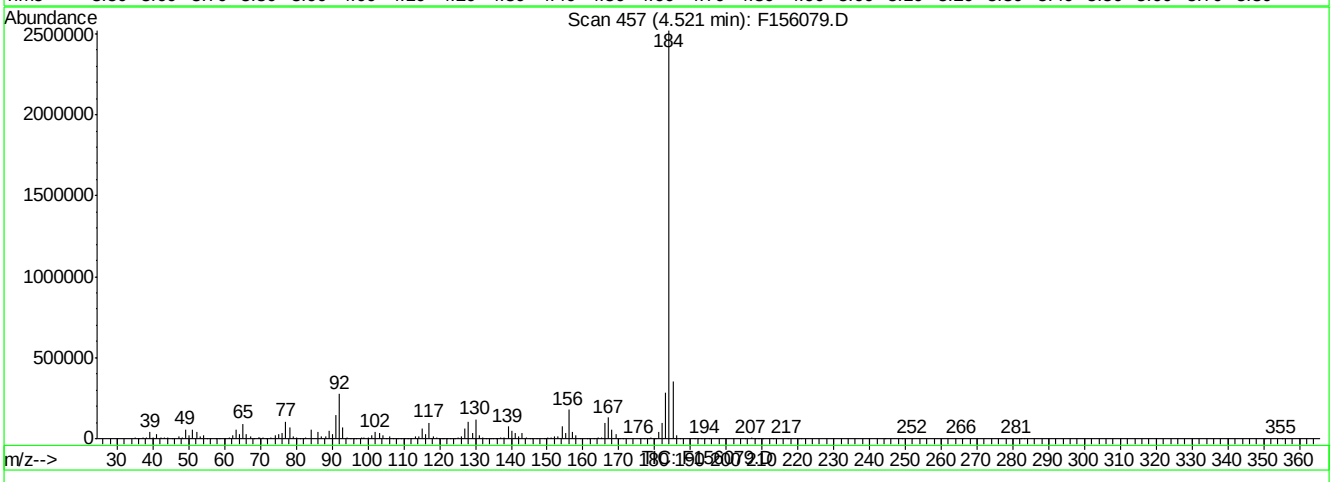
F156079.D DFTPPF.M Fri Apr 08 15:28:06 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156079.D Vial: 1
Acq On : 5 Apr 2016 1:58 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 8 15:27 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Fri Apr 08 15:27:53 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 107.51ppb

response 2013920

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.24
185.00	16.20	13.76
0.00	0.00	0.00

F156079.D DFTPPF.M Fri Apr 08 15:28:19 2016 RT1

7.5.16.2

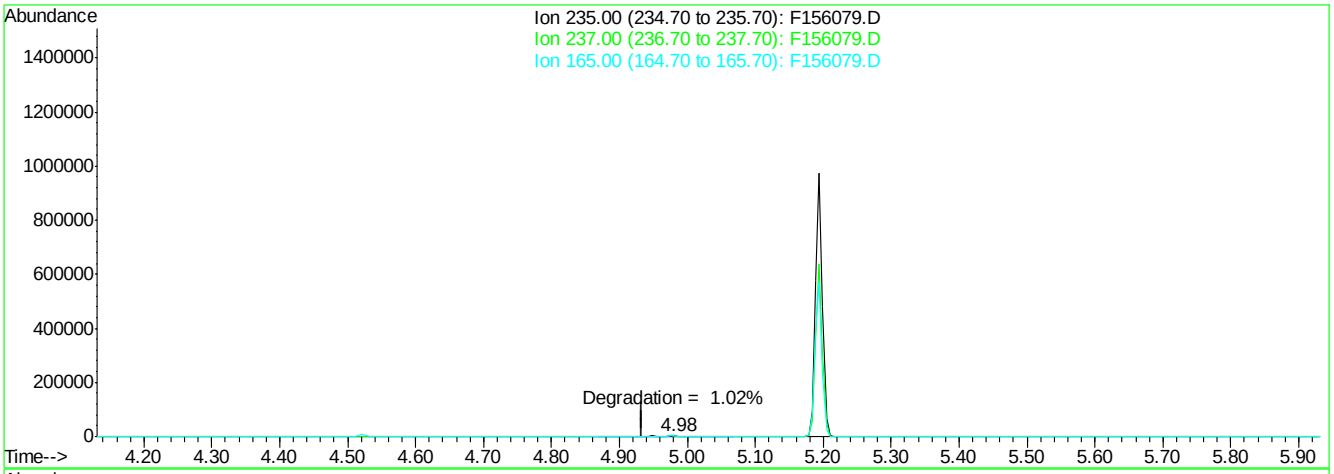
7

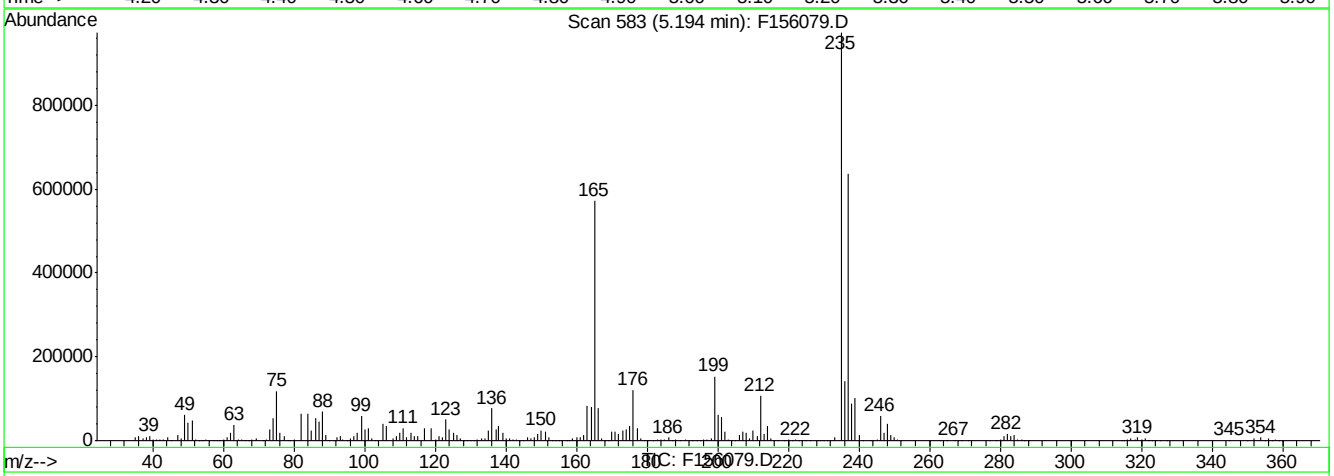
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156079.D Vial: 1
Acq On : 5 Apr 2016 1:58 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 8 15:27 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Fri Apr 08 15:27:53 2016
Response via : Single Level Calibration





(3) ddt (t)

5.19min 45.46ppb

response 705858

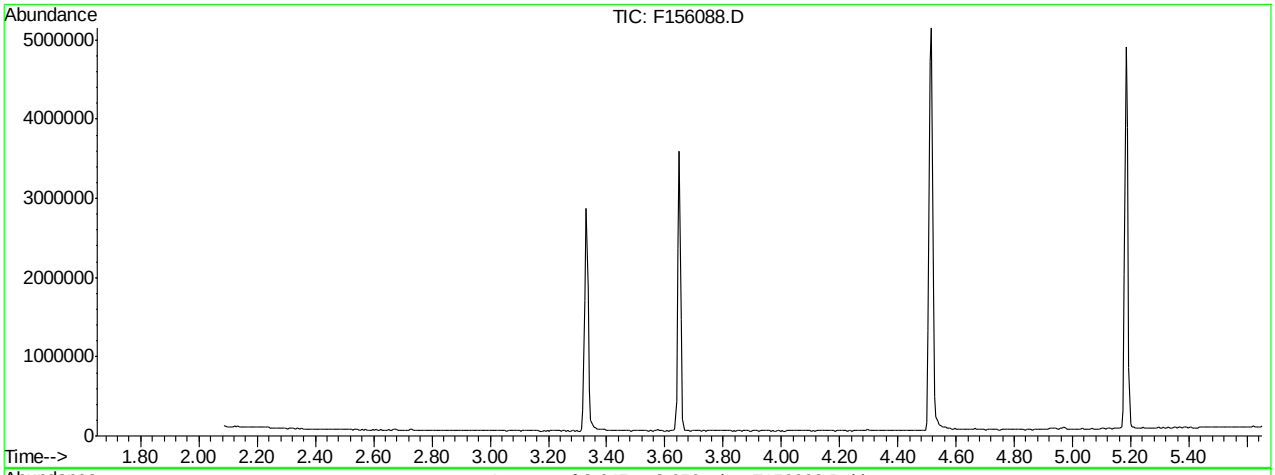
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.72
165.00	59.50	59.82
0.00	0.00	0.00

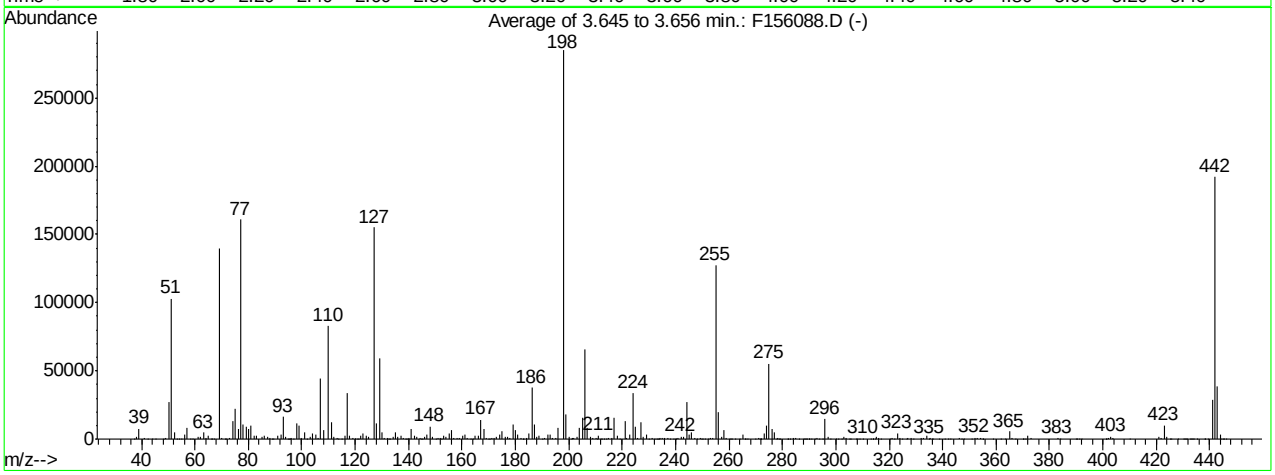
F156079.D DFTPPF.M Fri Apr 08 15:28:27 2016 RT1

SGS ACCUTEST JC19423

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 293, 294, 295; Background Corrected with Scan 288

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	102858	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.1	139965	PASS
70	69	0.00	2	0.5	764	PASS
127	198	40	60	54.5	155093	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	284778	PASS
199	198	5	9	6.4	18151	PASS
275	198	10	30	19.4	55232	PASS
365	198	1	100	1.9	5389	PASS
441	443	0.10	100	74.0	28740	PASS
442	198	40	100	67.5	192210	PASS
443	442	17	23	20.2	38818	PASS

F156088.D DFTPPF.M Fri Apr 08 16:29:12 2016 RT1

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	422	52.15	5161	64.10	775	75.10	22161
38.10	1660	53.10	365	65.10	2825	76.15	7083
39.10	7784	53.90	50	66.00	72	77.10	160886
41.10	791	54.95	420	66.15	188	78.10	10930
42.20	116	56.10	3225	67.05	187	79.05	9279
44.10	315	57.05	7993	69.00	139965	80.00	7587
45.10	166	58.05	432	70.10	764	81.05	9790
48.00	164	59.05	112	71.05	136	82.10	2490
49.10	536	61.10	1593	71.80	56	83.00	2187
50.05	27320	62.10	1806	73.10	1142	85.05	1968
51.10	102858	63.10	4851	74.10	13287	86.00	2502

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.05	1482	96.05	824	107.10	44368	118.90	475
88.00	469	96.95	24	108.05	6868	119.90	214
88.80	71	98.00	11504	110.00	82640	120.15	329
89.10	352	99.05	9765	111.05	12612	120.95	188
91.05	2330	100.00	753	112.00	1505	121.20	122
92.05	2954	101.00	5375	113.05	508	122.05	2348
93.00	16059	102.10	316	113.80	60	123.00	4021
94.00	1312	103.05	1449	114.75	165	124.05	2433
94.90	167	104.05	3890	116.10	2222	125.00	2039
95.10	168	105.10	3106	117.05	33584	127.10	155093
95.40	294	105.95	559	118.00	2268	128.10	11711

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	59208	138.90	160	148.00	9076	158.10	1085
130.00	5206	139.10	111	149.00	1708	159.00	1147
130.95	1065	140.05	562	150.05	425	160.05	2284
132.05	459	141.05	7169	151.20	1208	161.10	3432
132.75	339	142.05	2414	151.70	525	162.10	1175
133.05	211	143.05	1603	152.10	233	163.00	402
134.10	1297	144.10	466	153.05	2092	164.00	363
135.05	4892	144.80	143	154.00	1787	165.05	2418
136.10	1858	145.05	325	155.10	4093	166.00	2135
137.00	2572	146.00	1329	156.10	6531	167.05	14023
137.90	830	147.00	3032	157.10	1044	168.05	7410

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.10	1190	178.00	707	188.05	1274	200.10	1778
169.90	419	179.00	10755	189.00	2419	200.80	123
170.30	92	180.05	6796	190.00	346	201.40	812
171.05	879	181.00	2999	191.05	1220	201.70	599
172.05	1234	181.95	641	192.05	3064	203.00	1878
173.00	1613	182.80	134	193.00	3588	204.10	8551
174.10	3204	183.10	197	193.90	703	205.10	15920
175.10	5492	184.05	748	194.95	625	206.10	65842
176.10	1566	185.10	4417	196.05	8040	207.05	8584
176.90	864	186.10	37725	198.00	284778	208.00	1758
177.10	1510	187.10	10488	199.00	18151	209.00	492

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.10	953	219.20	110	231.10	1223	240.00	115
210.50	388	221.05	13237	232.05	215	240.15	312
211.10	2663	221.70	523	232.95	278	241.05	998
211.90	185	223.00	3629	233.20	162	242.00	1829

212.20	77	224.10	33869	233.90	309	243.15	1575
213.00	97	225.05	8704	234.10	696	244.10	27274
214.10	52	225.90	831	235.05	1004	245.10	3432
214.95	570	227.00	12761	235.95	890	246.05	4873
216.00	1212	228.05	2041	237.00	1046	247.00	895
217.00	15507	229.05	3152	238.10	67	247.90	128
218.00	2173	229.80	302	239.00	436	249.05	776

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
249.80	93	260.20	61	271.60	96	279.20	82
250.00	170	260.60	51	271.80	113	281.80	53
251.05	287	261.05	277	272.10	296	282.05	238
252.00	206	262.40	59	273.05	4058	283.00	317
253.05	816	263.80	214	274.00	9959	284.00	528
254.00	595	265.00	2944	275.00	55232	285.10	852
255.00	127522	266.00	188	276.10	7485	286.10	109
256.05	19434	266.15	298	277.00	4765	287.90	59
257.10	1335	266.95	140	277.90	393	288.10	52
258.00	6378	270.00	250	278.05	683	288.90	138
259.00	1069	270.95	457	278.80	80	289.20	56

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
289.80	53	301.00	99	313.90	306	324.90	65
290.00	73	301.95	365	314.10	390	326.30	62
290.80	63	303.10	1857	314.80	284	327.00	766
291.95	169	304.00	489	315.05	1532	328.10	586
293.10	1244	305.05	133	316.00	843	328.90	67
293.95	289	305.70	50	317.05	160	331.95	697
294.90	108	307.80	194	320.00	62	333.00	508
296.00	14782	308.00	168	321.00	489	334.00	2716
296.95	1866	309.00	63	322.05	240	334.95	423
298.10	353	310.15	240	323.05	4530	335.20	468
300.00	58	312.90	65	324.05	1066	336.00	85

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
336.25	148	354.05	1232	370.85	279	402.00	951
338.80	50	355.00	103	372.05	2563	403.05	1765
340.90	420	355.15	177	373.15	594	403.90	605
342.00	80	359.00	78	383.05	684	410.20	64
342.80	77	361.60	78	383.95	230	421.00	1693
346.05	977	363.30	63	389.95	284	421.95	1150
346.95	245	365.00	5389	390.20	100	423.00	10193
348.00	56	365.95	1063	391.05	307	424.10	1875
350.80	55	367.10	57	391.90	238	425.00	218
351.95	1195	370.00	63	401.05	168	425.70	124
353.05	845	370.30	84	401.40	86	428.20	100

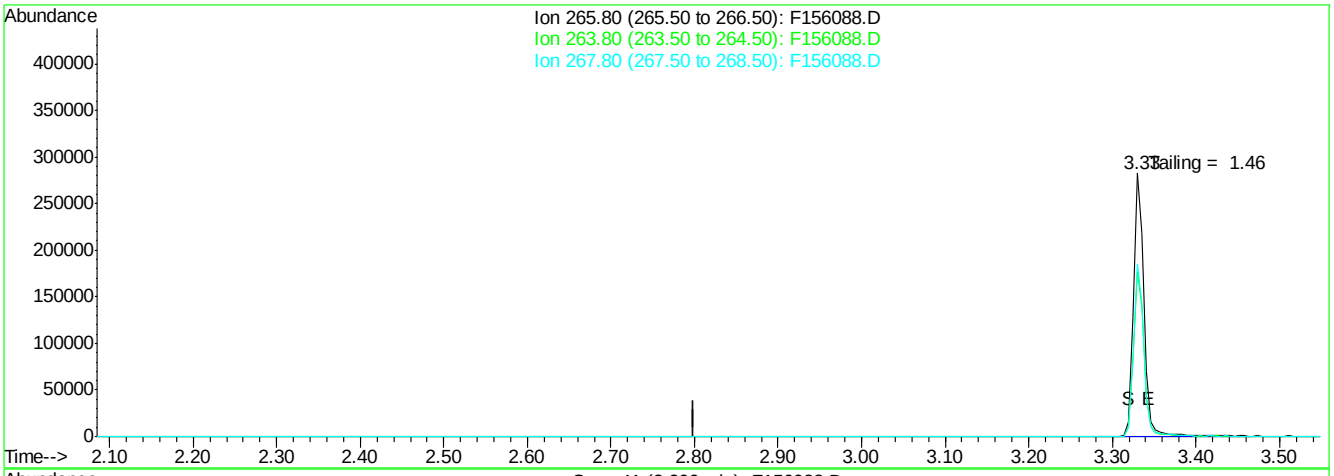
Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

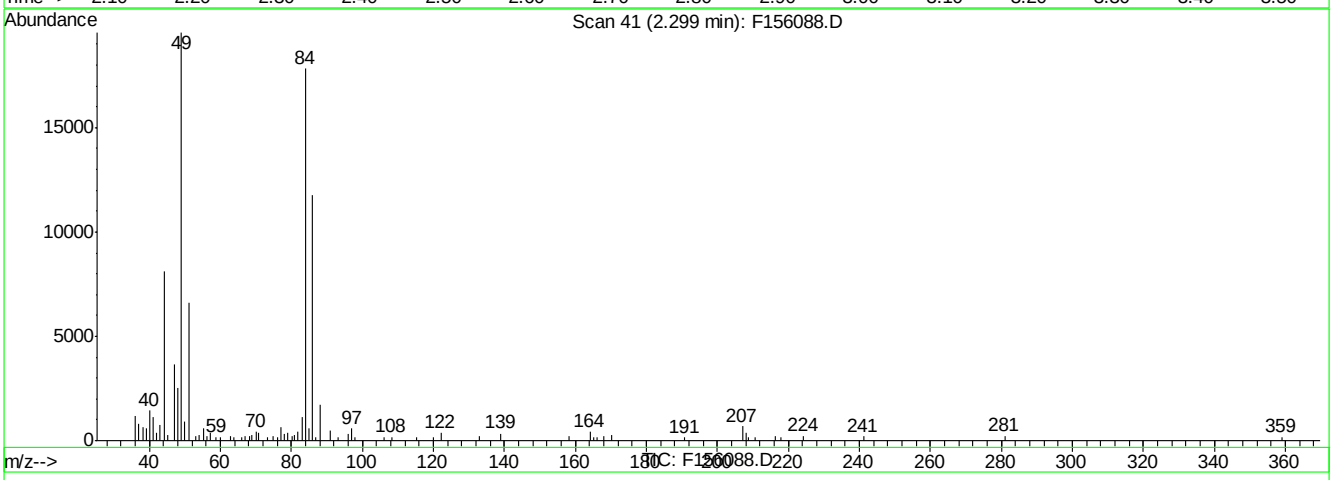
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
430.00	218	439.30	60				
430.50	68	441.05	28740				
431.10	89	442.00	192210				
431.45	133	443.00	38818				
432.65	134	443.90	401				
433.00	76	444.10	3354				
433.40	66	444.90	204				
433.90	59	445.20	184				
435.30	97	446.00	56				
438.10	60						
438.30	53						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

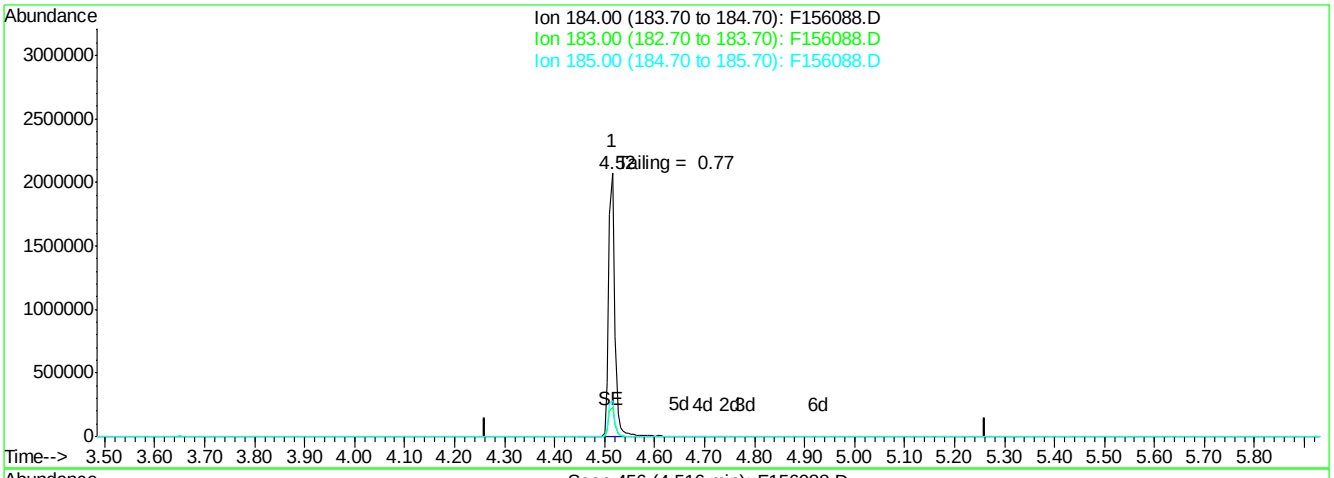
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

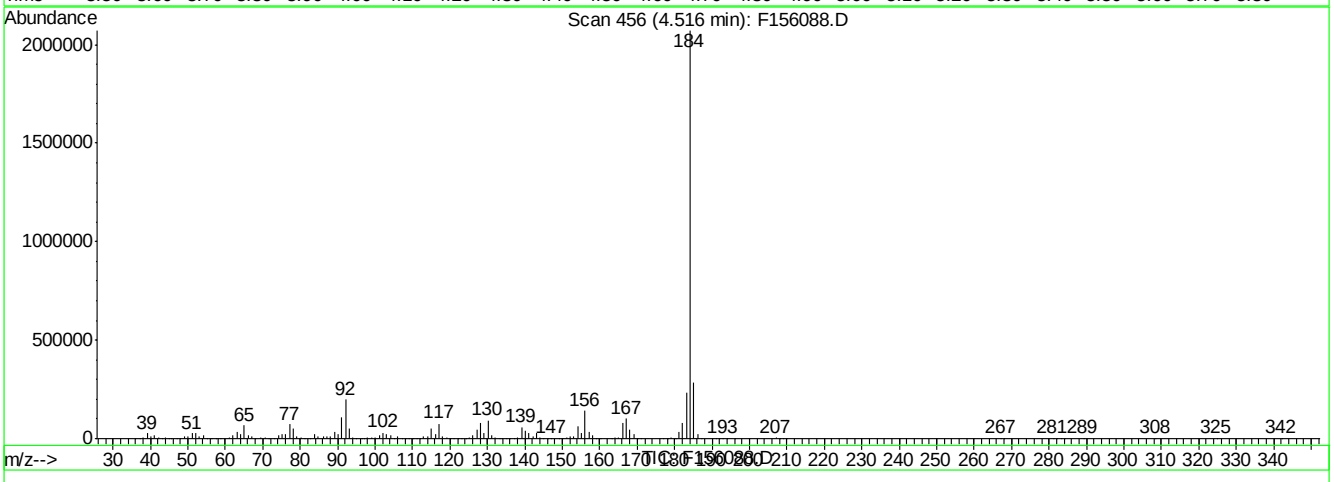
F156088.D DFTPPF.M Tue Apr 05 18:12:48 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 94.58ppb

response 1771832

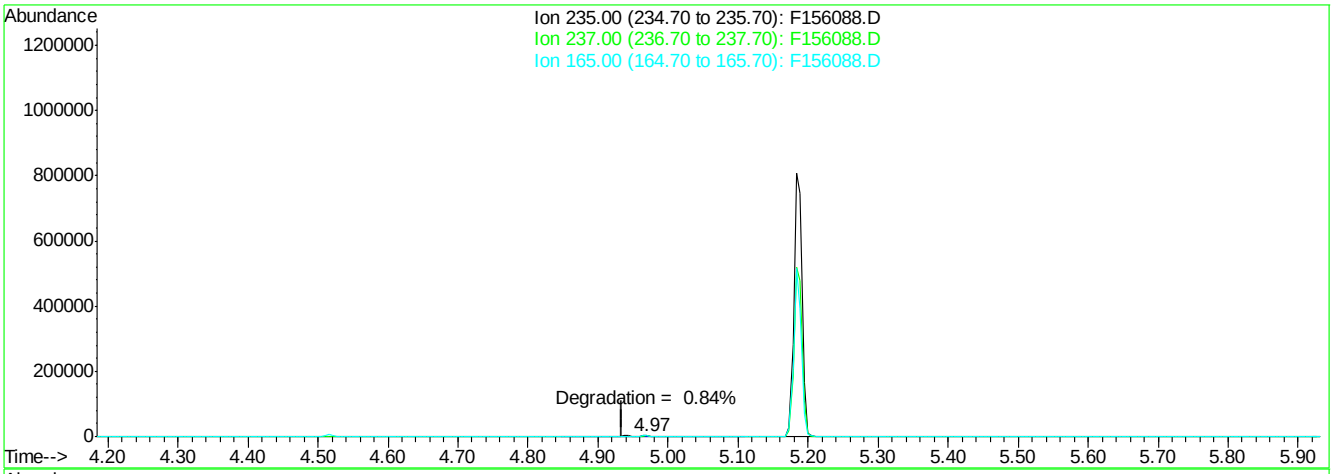
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.25
185.00	16.20	14.07
0.00	0.00	0.00

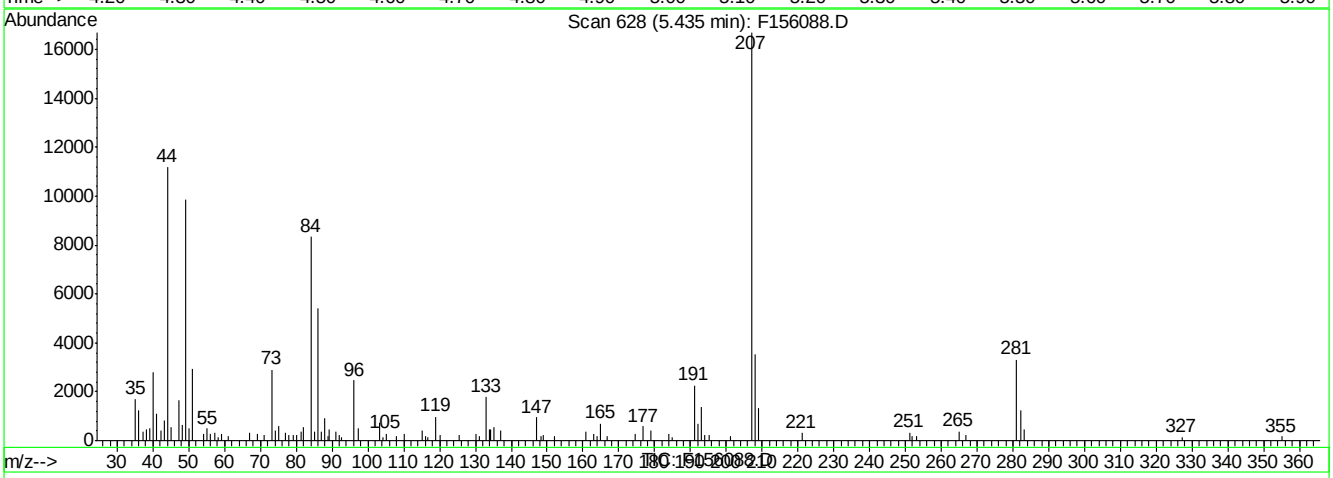
F156088.D DFTPPF.M Tue Apr 05 18:12:55 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.43min 0.00ppb

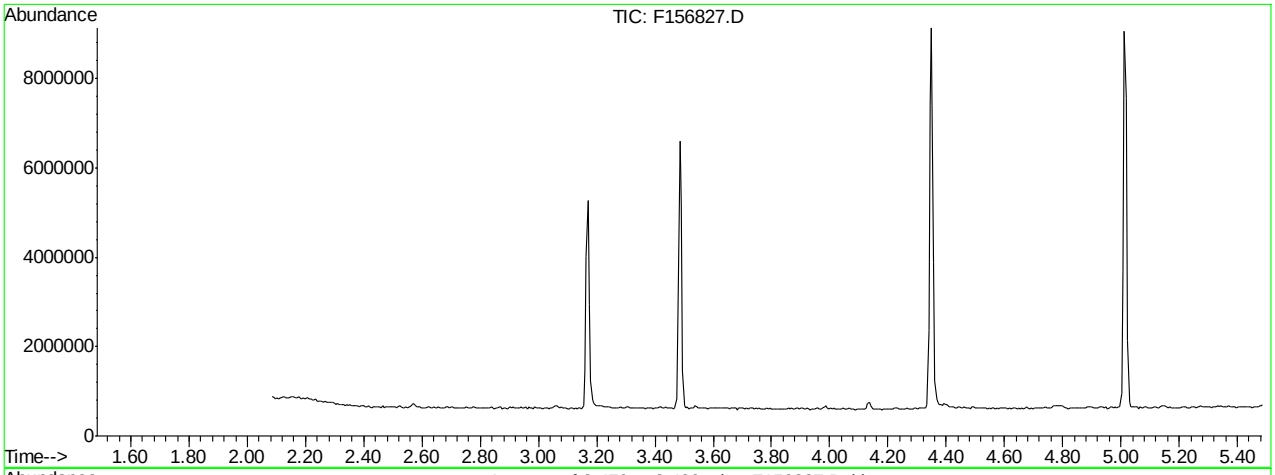
response 0

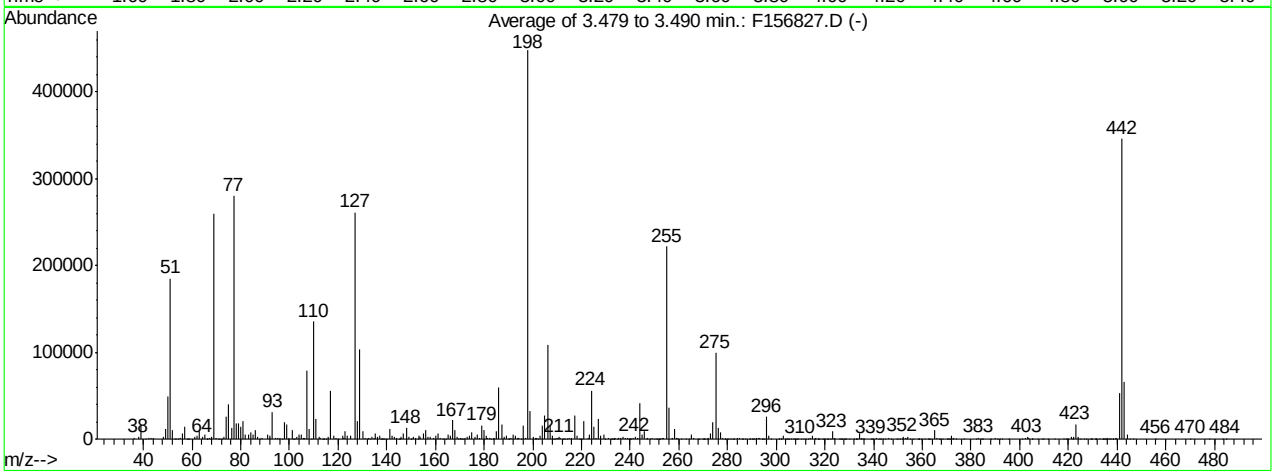
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F156088.D DFTPPF.M Tue Apr 05 18:13:03 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6603\F156827.D Vial: 1
Acq On : 5 May 2016 10:10 am Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 262, 263, 264; Background Corrected with Scan 257

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.4	185368	PASS
68	69	0.00	2	1.0	2493	PASS
69	198	0.00	100	58.1	259942	PASS
70	69	0.00	2	0.7	1788	PASS
127	198	40	60	58.3	261120	PASS
197	198	0.00	1	0.2	797	PASS
198	198	100	100	100.0	447765	PASS
199	198	5	9	7.1	31758	PASS
275	198	10	30	22.2	99317	PASS
365	198	1	100	2.2	9781	PASS
441	443	0.10	100	79.8	52374	PASS
442	198	40	100	77.2	345733	PASS
443	442	17	23	19.0	65664	PASS

F156827.D DFTPPF.M Mon May 09 09:55:59 2016 RT1

Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1852	52.10	10141	62.10	3289	70.95	79
38.00	2171	52.90	394	63.10	9230	71.30	205
39.15	15525	53.10	605	64.15	1986	72.00	161
41.10	579	54.20	195	65.10	4904	73.05	2617
42.10	1061	55.00	1245	66.00	456	74.05	25704
43.05	725	56.10	6016	66.20	72	75.05	39635
44.05	1094	57.05	14638	67.15	726	76.15	13406
48.10	2419	57.90	449	67.50	309	77.10	280073
49.10	11178	58.20	180	68.10	2493	78.10	17647
50.10	48983	59.05	423	69.10	259942	79.05	17610
51.10	185368	61.10	2864	70.00	1788	80.10	13795

Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.00	21073	92.10	4398	102.00	272	112.10	2142
82.00	4623	93.00	31527	103.05	2696	112.95	704
83.05	4694	94.15	1523	104.05	5656	113.70	235
84.00	7552	95.15	939	105.05	5821	113.90	241
85.05	5327	96.00	1372	105.95	1003	114.30	146
86.00	10266	97.20	564	106.20	1291	114.90	48
87.00	2796	98.00	19058	107.10	78693	116.10	3060
88.00	399	99.05	17420	108.10	11868	117.00	55755
88.95	833	100.00	1740	109.00	49	118.05	3355
91.10	4737	101.00	9933	110.10	135368	119.15	1233
91.90	781	101.80	275	111.05	23480	120.05	629

Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
122.00	4062	132.30	891	139.85	566	149.90	209
122.30	1086	132.80	129	141.05	12173	150.20	652
123.05	8482	134.10	2807	142.05	3418	151.05	2117
123.95	3599	134.90	1285	143.05	2741	151.80	1203
125.05	3512	135.10	5989	144.25	781	152.90	619
127.10	261120	136.05	3275	145.00	337	153.05	3510
128.10	20890	137.10	4348	145.25	482	153.90	2646
129.05	103593	137.70	381	145.90	2804	155.10	6828
130.00	9245	138.20	634	147.00	6136	156.10	10070
131.10	1637	138.70	54	148.00	12765	157.05	2378
132.10	202	139.20	256	149.05	2223	158.05	2334

Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.10	1935	169.00	2147	177.00	4884	186.10	59776
160.05	3410	169.30	486	178.10	875	187.10	16808
161.10	6788	170.10	832	179.05	16109	188.05	2344
162.00	1518	170.40	144	180.00	10976	189.00	3828
162.95	396	170.90	536	181.00	3373	190.00	593
163.60	203	171.10	661	181.20	1615	190.20	184
164.25	665	172.00	1803	182.05	1080	191.05	1763
165.00	4860	173.05	3196	182.80	220	192.10	5695
166.05	3433	174.05	4011	183.80	297	193.00	4371
167.05	21905	175.05	8207	184.05	1789	193.95	1682
168.05	9874	176.15	2577	185.15	8876	194.20	775

Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
195.20	513	204.10	16113	212.10	680	221.10	20719
196.00	15341	205.05	27067	212.85	242	222.90	937
196.80	797	206.10	108642	213.20	52	223.10	4815
198.00	447765	207.10	15923	214.20	208	224.10	55984

199.00	31758	208.00	4174	215.05	1793	225.05	14060
200.10	2301	208.70	145	215.95	997	226.05	1531
201.00	486	208.90	582	217.05	27485	227.10	23341
201.35	878	210.00	882	218.10	3459	228.05	3795
201.60	963	210.25	1934	218.90	145	229.05	5129
202.00	241	210.95	2115	219.35	440	229.90	687
203.05	3598	211.20	1830	219.90	160	231.10	1619

Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
231.90	56	239.00	717	246.90	115	253.45	941
232.40	123	239.20	169	247.05	1221	255.10	221733
233.00	224	239.80	243	248.25	509	256.10	35664
233.20	397	240.00	233	249.10	1148	257.10	1614
233.50	136	240.25	421	250.10	382	257.30	1136
233.95	1775	241.10	1122	250.80	84	258.05	11391
234.90	232	242.05	3054	251.10	98	259.00	1592
235.15	1698	243.10	1430	251.70	197	259.20	765
236.05	1188	244.10	41947	252.00	557	259.80	71
237.05	2088	245.00	4921	252.25	522	261.20	252
238.15	875	246.00	8460	253.20	790	262.75	246

Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
264.15	370	273.05	6550	282.20	514	291.00	103
265.00	5147	274.10	19818	282.80	406	292.05	768
266.00	961	275.10	99317	284.10	722	292.90	826
267.95	422	276.05	13053	285.05	1624	293.10	761
268.50	61	277.05	8098	285.90	140	294.05	449
269.80	179	278.15	1436	286.20	187	294.60	193
270.10	392	278.90	139	287.40	65	295.10	442
270.30	209	279.10	136	288.95	259	296.05	25696
270.85	461	280.00	70	289.20	156	297.05	3620
271.50	176	280.20	94	289.80	287	297.90	98
272.10	1450	281.05	247	290.40	141	301.00	209

Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
301.20	173	308.00	383	317.00	346	324.15	1372
301.80	169	308.60	76	317.30	311	325.90	97
302.20	100	308.90	230	317.80	76	326.20	57
303.10	3635	310.05	361	318.90	232	326.70	254
303.90	251	311.00	127	319.40	80	326.90	419
304.20	667	312.10	96	319.90	50	327.85	555
304.90	141	313.10	343	321.00	677	328.10	317
305.30	88	314.05	1537	321.30	228	328.80	245
306.30	66	315.05	3474	322.10	568	330.00	86
306.90	98	315.90	121	323.05	8799	332.00	600
307.40	94	316.05	1079	323.80	77	332.80	313

Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
333.00	358	341.85	329	352.10	3194	362.10	70
333.40	116	342.50	60	353.20	1535	362.70	113
334.10	5863	343.10	139	353.50	87	363.30	57
334.90	163	344.00	133	354.00	3200	365.10	9781
335.15	1252	344.90	63	355.10	367	366.10	1580
335.70	135	346.10	1197	356.30	66	366.90	168
336.15	132	346.95	287	358.00	169	367.20	60
339.00	164	349.60	161	358.40	63	368.30	67
339.30	66	350.00	133	358.80	91	370.35	231
339.85	212	350.90	312	359.35	154	370.70	201
341.00	1142	351.90	375	360.80	65	371.05	547

Average of 3.479 to 3.490 min.: F156827.D

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
371.70	71	388.30	86	405.20	148	421.90	106
372.05	4176	389.95	921	407.40	67	422.10	2020
372.30	353	391.00	665	409.40	120	423.10	17405
372.90	1481	392.00	330	409.90	61	423.80	259
373.95	158	392.80	251	411.50	76	424.10	3268
377.20	175	395.60	61	414.30	131	425.05	574
382.20	87	400.90	205	417.90	69	426.20	56
383.05	1515	402.15	1956	418.80	114	427.40	62
384.05	520	403.10	2550	419.40	124	429.15	214
384.30	153	403.95	1010	420.00	246	429.50	121
384.90	59	405.00	95	421.10	2168	429.70	172

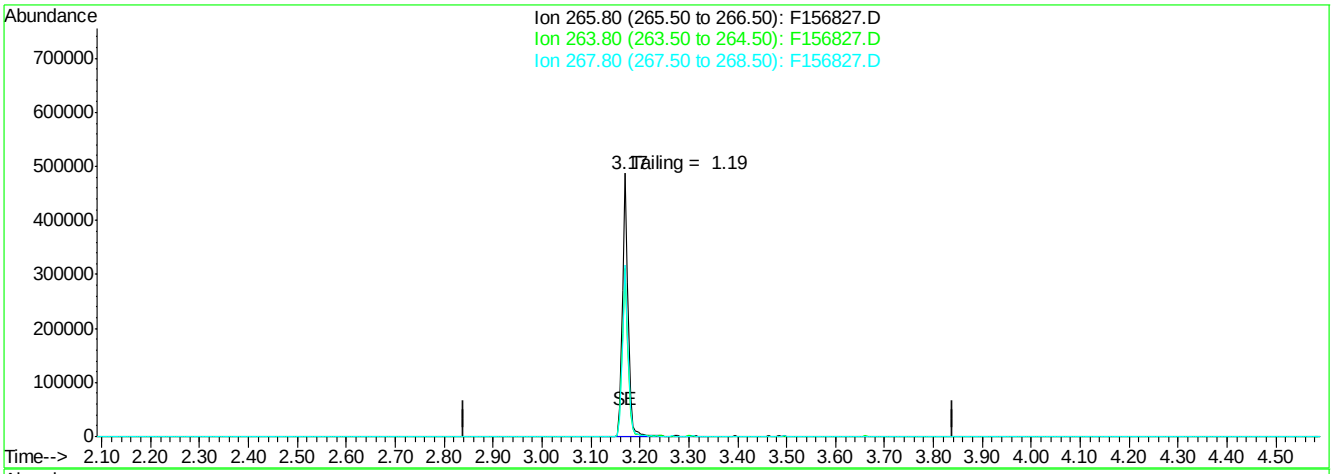
Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

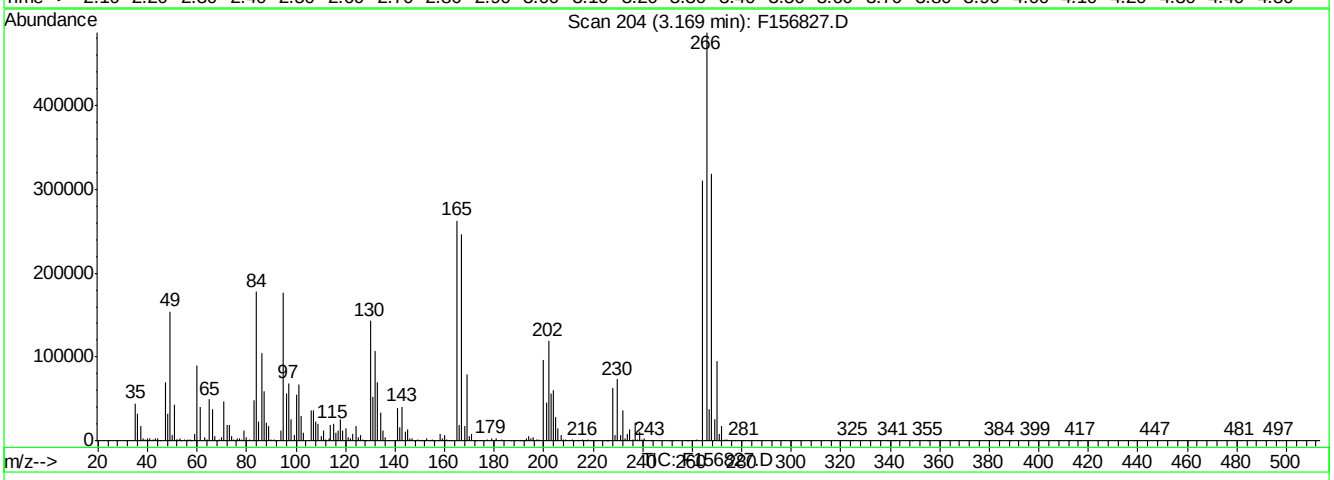
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
430.70	123	437.00	75	446.45	175		
431.30	203	437.45	585	455.90	56		
431.50	101	438.30	382	470.10	51		
432.70	236	438.50	206	477.80	52		
434.00	204	439.30	243	483.40	57		
434.30	101	439.80	711	484.60	74		
434.60	166	441.10	52374				
435.00	99	442.10	345733				
435.30	250	443.10	65664				
435.85	716	444.05	5476				
436.40	256	445.00	471				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156827.D Vial: 1
Acq On : 5 May 2016 10:10 am Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 5 10:16 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Fri Apr 08 15:27:53 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

3.17min 212.08ppb

response 394236

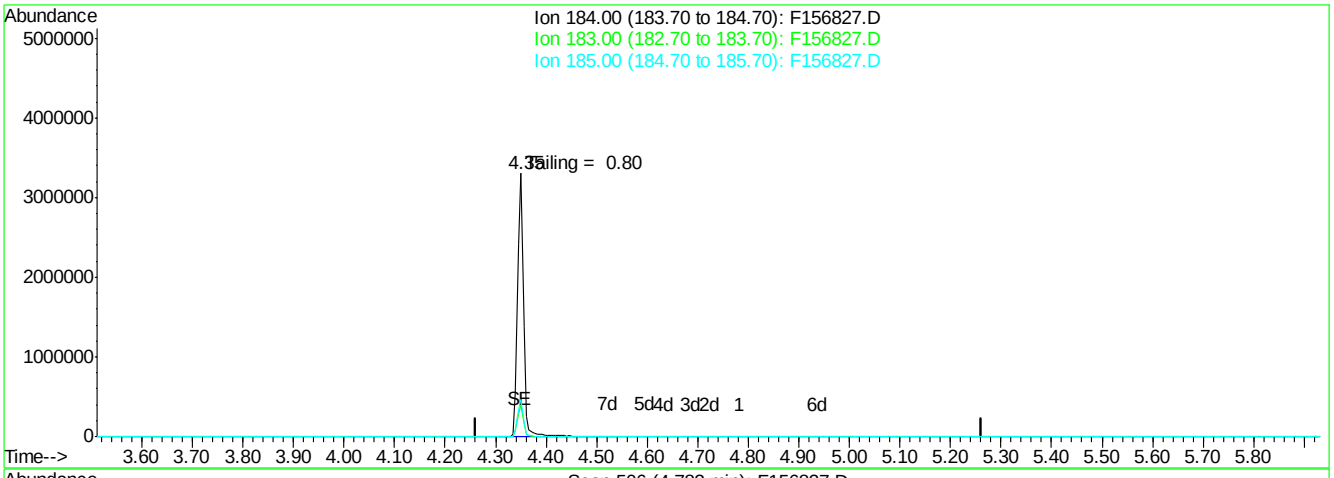
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	63.74
267.80	64.80	65.33
0.00	0.00	0.00

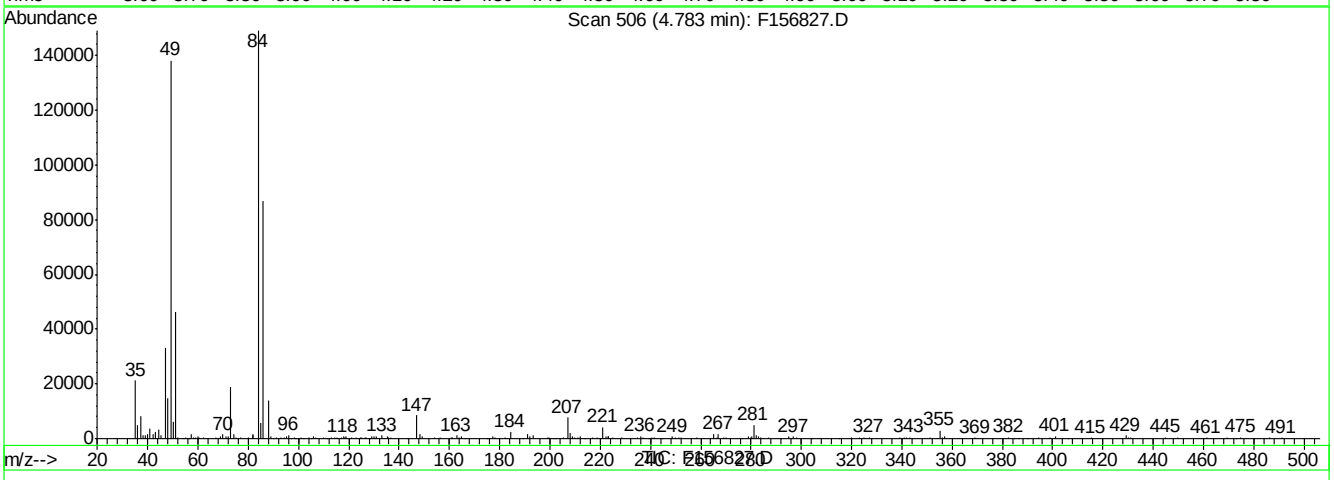
F156827.D DFTPPF.M Mon May 09 09:56:06 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156827.D Vial: 1
Acq On : 5 May 2016 10:10 am Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 5 10:16 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Fri Apr 08 15:27:53 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.78min 0.08ppb

response 1505

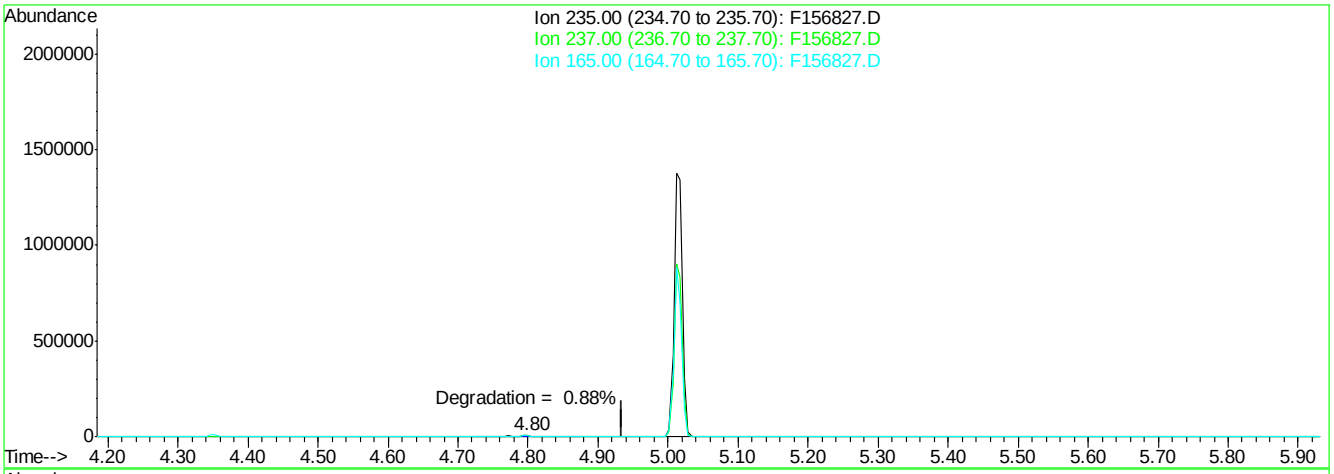
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

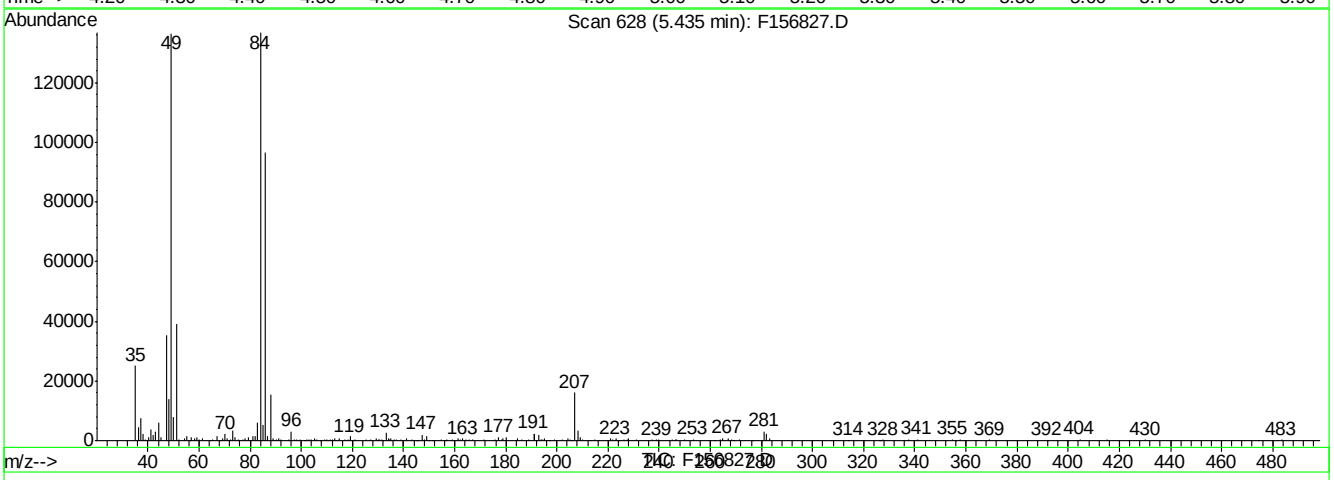
F156827.D DFTPPF.M Mon May 09 09:56:12 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156827.D Vial: 1
Acq On : 5 May 2016 10:10 am Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 5 10:16 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Fri Apr 08 15:27:53 2016
Response via : Single Level Calibration





(3) ddt (t)

5.43min 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

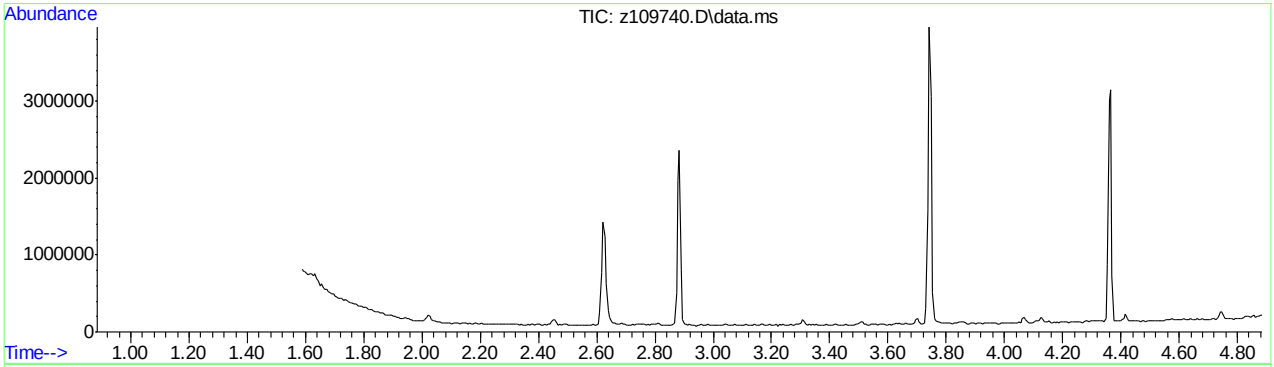
F156827.D DFTPPF.M Mon May 09 09:56:17 2016 RT1

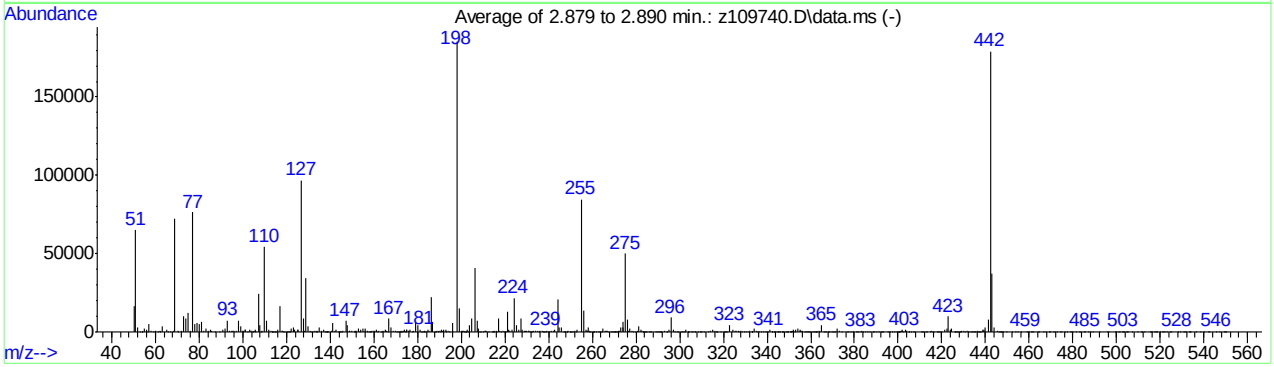
DFTPP

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109740.D
Acq On : 13 Apr 2016 9:20 pm
Operator : sarad
Sample : dftpp
Misc : op92825,ez5485
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015





AutoFind: Scans 227, 228, 229; Background Corrected with Scan 221

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.0	64844	PASS
68	69	0.00	2	1.5	1086	PASS
69	198	0.00	100	39.2	72648	PASS
70	69	0.00	2	0.9	687	PASS
127	198	40	60	52.1	96690	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	185434	PASS
199	198	5	9	8.3	15348	PASS
275	198	10	30	26.9	49861	PASS
365	198	1	100	2.5	4651	PASS
441	443	0.01	100	21.7	8077	PASS
442	198	40	100	96.6	179106	PASS
443	442	17	23	20.8	37293	PASS

DFTPPZ.M Thu Apr 14 15:04:59 2016 RTE Page: 1

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	16760	58.95	53	70.10	687	81.05	6219
51.05	64844	60.10	448	70.40	193	82.00	434
52.00	3172	61.00	211	71.85	534	83.00	1897
52.70	306	61.95	648	73.05	10132	84.00	606
53.80	52	62.20	69	74.05	8408	85.05	1460
54.05	367	63.10	3256	75.00	12495	85.85	1032
55.05	1970	65.05	1810	76.00	484	87.15	355
56.00	1481	65.90	217	77.10	76578	89.10	159
56.30	307	66.90	352	78.05	5056	91.00	1669
56.95	4765	68.20	1086	78.95	5693	92.10	1862
57.85	528	69.00	72648	80.00	4730	93.00	7324

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	388	101.95	313	109.05	670	115.90	1400
94.95	755	102.95	1294	110.00	54393	116.95	16659
95.70	484	103.90	1049	111.00	7000	118.00	666
95.95	651	104.10	1099	111.95	1149	118.20	391
97.10	522	104.90	175	112.85	384	118.80	159
97.95	7533	105.10	942	113.20	87	119.10	228
99.00	3855	105.70	139	113.60	48	120.00	78
99.85	522	105.95	1326	114.10	57	120.60	118
100.15	433	107.05	24083	114.60	261	120.90	282
100.95	1590	108.00	4192	114.90	142	121.40	310
101.20	1619	108.20	160	115.10	210	122.10	1918

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.00	2849	132.05	280	138.80	311	146.00	1101
123.90	1279	133.10	914	139.10	274	147.05	6825
125.00	1613	133.40	213	140.40	553	147.95	4137
125.30	1214	133.90	242	141.00	5532	148.80	605
126.95	96690	134.20	406	142.05	1035	149.05	429
128.00	8331	135.05	2958	142.90	1348	150.05	802
128.20	696	136.15	783	143.80	67	150.90	83
129.00	34554	137.05	1510	144.10	169	151.30	622
129.95	3439	137.70	15	144.30	290	151.55	194
130.95	623	138.20	227	144.85	20	152.00	671
131.30	141	138.60	176	145.20	91	152.95	1831

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.40	339	160.00	842	165.75	1065	172.40	189
154.05	1384	160.20	588	166.30	98	173.10	338
155.05	2349	160.90	859	167.00	8295	173.30	431
155.80	484	161.20	1215	168.05	2906	174.00	1666
156.05	2252	161.50	105	168.95	809	174.30	237
156.85	375	162.05	491	170.10	642	174.60	330
157.30	492	163.05	243	170.40	219	174.90	1472
157.90	376	163.90	90	171.00	105	175.10	1453
158.10	333	164.20	561	171.35	277	175.80	408
158.50	55	165.10	1198	171.90	354	176.10	571
159.15	710	165.50	801	172.20	599	176.80	1677

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.70	96	184.95	1594	191.30	593	200.20	163
178.10	669	185.20	750	192.05	1723	200.80	417
179.05	6022	186.10	22575	192.80	258	201.00	427
180.05	4533	187.05	6613	193.05	1536	201.30	122

DFTPPZ.M Thu Apr 14 15:04:59 2016 RTE Page: 2

181.00	1564	187.95	11	194.10	661	201.75	282
181.70	77	188.30	205	194.60	263	202.10	301
182.10	182	189.00	944	195.80	1014	202.40	324
182.80	296	189.25	113	196.10	5759	202.90	1418
183.10	303	189.90	486	198.00	185434	203.20	236
183.30	426	190.20	227	199.00	15348	204.00	4614
183.80	189	191.05	1163	200.00	744	205.00	8882

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
206.10	40733	214.35	179	220.30	350	229.20	735
207.10	6842	215.00	58	221.05	13144	230.05	613
207.95	1842	215.15	747	221.70	1220	230.70	450
208.60	297	216.00	291	222.10	466	231.05	520
208.95	280	216.20	452	223.05	1583	231.40	163
210.10	59	217.00	8640	224.10	21539	232.10	90
210.70	991	217.85	1045	225.05	4615	232.40	210
211.00	516	218.20	289	226.10	1105	233.05	386
211.45	1047	219.20	387	227.10	8855	234.05	465
212.70	34	219.50	221	228.05	1758	234.90	607
214.10	225	220.10	162	228.80	789	235.75	370

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
236.10	698	242.90	1317	250.10	56	258.00	2948
237.00	692	244.05	20557	250.30	148	258.40	268
237.60	85	245.00	2536	250.95	346	258.90	750
237.80	48	246.00	2975	251.80	661	259.40	137
238.20	26	246.90	356	252.45	216	260.00	218
238.40	75	247.15	2	253.10	1517	260.60	27
239.00	1001	247.50	163	255.00	84600	260.90	127
239.80	125	248.20	36	256.05	13722	261.60	22
240.05	264	248.40	49	257.05	1808	262.90	65
241.00	787	248.90	902	257.50	394	263.20	263
242.00	952	249.90	133	257.70	425	263.70	172

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
264.50	79	270.40	55	277.05	2125	284.10	139
264.95	2147	271.10	270	278.05	722	284.40	369
265.90	414	271.30	279	278.85	275	284.85	40
266.25	441	272.05	500	279.45	204	285.95	116
267.10	501	272.70	831	280.60	414	286.30	63
267.30	214	273.15	2859	281.05	3435	286.70	206
268.25	213	274.00	2538	282.05	1266	288.80	54
268.85	314	274.15	6187	282.80	623	289.25	182
269.20	97	275.10	49861	283.10	358	290.10	27
269.75	60	276.00	8050	283.30	166	290.40	73
270.20	260	276.80	656	283.90	186	290.90	118

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
291.40	125	300.75	209	307.10	57	317.00	60
291.70	65	301.10	80	308.30	236	317.40	45
292.90	635	301.90	124	309.25	191	318.60	26
293.90	131	302.20	105	309.70	74	320.35	302
294.20	238	303.00	1596	310.20	182	320.85	361
295.10	1173	303.70	131	310.80	57	321.20	248
296.05	9131	304.00	366	312.80	216	321.60	325
297.00	1698	304.30	209	313.95	557	323.00	4641
297.90	272	305.10	47	315.15	1540	324.15	1163
298.90	114	306.10	104	316.00	853	325.20	399
299.10	78	306.90	29	316.80	53	326.10	556

Average of 2.879 to 2.890 min.: z109740.D\data.ms

DFTPPZ.M Thu Apr 14 15:04:59 2016 RTE Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
326.80	178	334.10	2135	342.30	38	348.40	80
327.10	823	335.05	852	343.10	93	349.10	89
327.85	504	335.40	117	343.40	132	349.30	76
328.30	139	336.20	139	343.90	22	349.70	21
329.60	56	337.40	118	344.90	175	350.50	104
330.30	156	338.20	173	345.10	19	350.80	119
331.40	79	339.00	84	345.60	195	351.20	100
332.05	764	339.60	146	346.00	270	351.70	398
332.80	246	340.10	107	346.70	45	352.05	1409
333.10	371	341.05	1420	347.00	171	352.60	123
333.30	298	342.10	321	347.60	30	353.00	1137

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
354.20	1856	361.00	71	367.05	149	376.80	118
355.00	1158	361.50	67	367.70	58	377.20	109
355.20	819	361.80	95	368.00	241	378.40	159
355.50	474	362.10	75	368.70	84	379.10	50
356.10	821	362.40	29	369.40	29	379.45	100
357.05	168	363.00	46	370.10	281	380.55	122
357.80	53	363.60	64	370.40	75	381.30	87
358.05	185	363.80	495	371.00	299	381.70	67
358.80	53	365.00	4651	372.10	2342	382.70	54
359.25	205	365.95	375	373.15	849	383.10	486
359.90	86	366.60	44	374.00	96	384.10	28

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
384.90	168	395.90	283	401.95	1152	411.70	33
385.95	233	396.20	32	402.50	155	412.50	31
387.00	34	397.20	20	403.10	1216	413.35	204
388.50	89	398.40	56	403.75	480	414.80	172
388.90	103	399.20	211	404.80	69	415.05	453
390.20	321	399.60	75	405.10	46	415.70	116
391.05	187	400.20	60	406.10	79	416.40	69
392.05	310	400.50	52	406.70	25	417.50	99
392.55	88	400.90	23	407.35	173	418.30	40
393.20	44	401.05	491	410.40	25	418.80	18
395.00	116	401.80	432	411.05	51	419.40	150

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
419.90	229	428.00	169	434.20	105	439.20	1302
421.10	1683	428.30	67	434.90	149	439.60	2725
422.15	2229	428.65	86	435.15	182	441.10	8077
423.05	9966	429.15	1065	436.10	26	442.10	179106
424.00	1268	430.10	638	436.35	515	443.10	37293
424.15	1882	430.35	6	436.80	258	444.00	3188
425.70	41	431.45	389	437.10	233	445.30	593
425.95	119	432.00	70	437.40	217	445.70	24
426.50	120	432.20	63	437.90	217	446.35	288
427.00	229	432.90	22	438.70	751	446.80	95
427.70	85	433.80	150	439.00	1375	447.00	115

Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
447.30	47	461.10	97	474.00	54	485.55	158
448.10	145	461.95	113	474.90	129	486.80	32
449.50	43	463.85	82	476.10	38	488.20	53
452.30	207	464.60	48	477.20	29	489.30	32
453.85	170	466.50	26	478.70	48	492.20	47

454.75	74	467.60	22	479.40	51	495.70	44
456.25	101	469.00	19	479.70	100	496.40	20
458.70	279	469.70	91	481.10	109	499.40	19
459.40	37	471.30	61	482.90	41	500.05	64
459.90	51	471.60	150	483.60	98	500.70	32
460.60	58	472.70	26	485.10	51	501.20	49

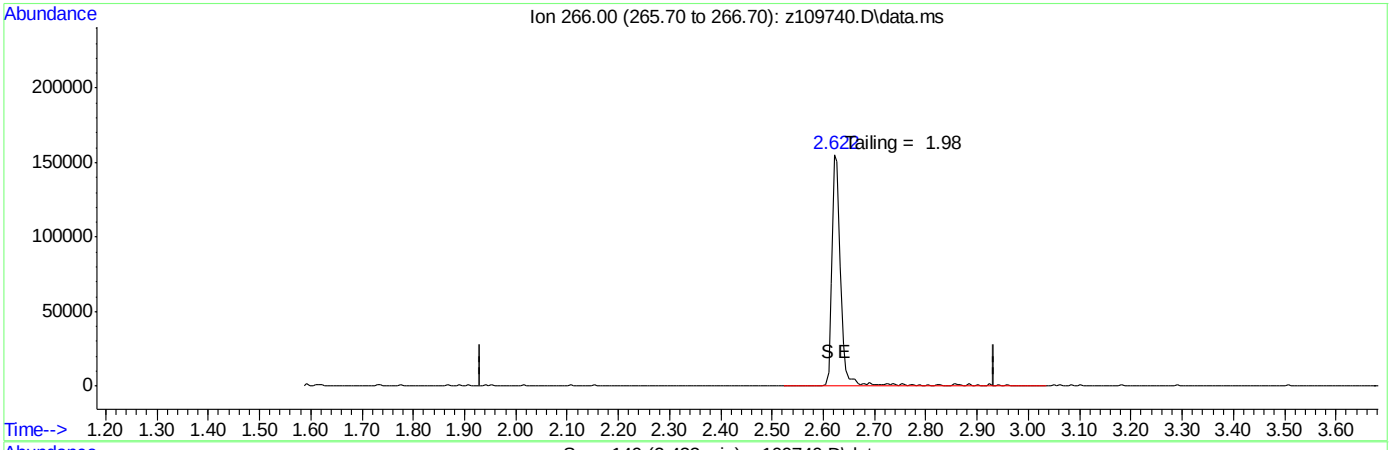
Average of 2.879 to 2.890 min.: z109740.D\data.ms
dftpp
Modified:subtracted

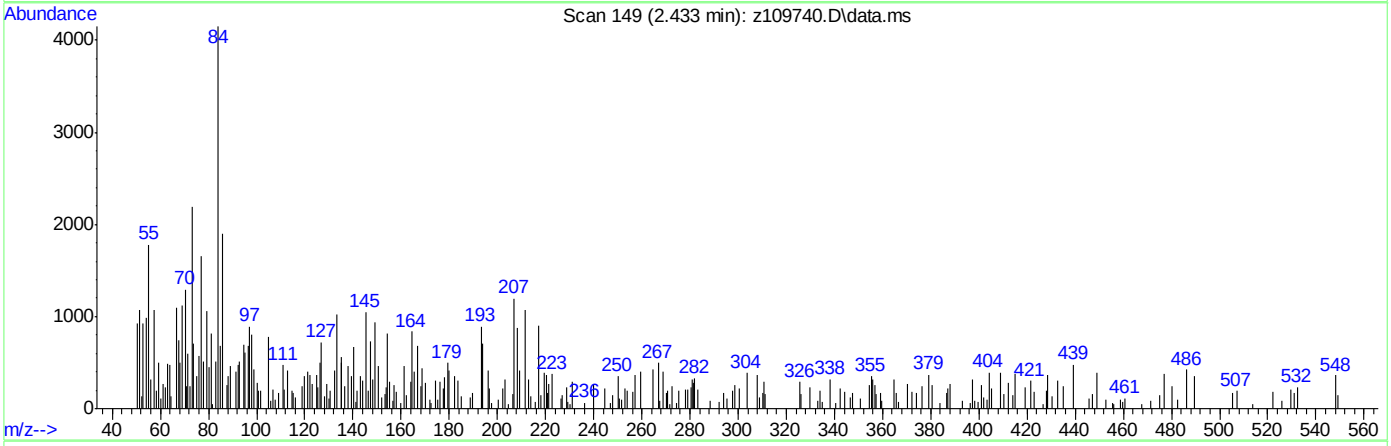
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
502.40	30	515.05	50	522.80	55	536.30	22
502.70	62	515.90	19	524.30	63	538.30	46
503.30	381	516.30	31	524.80	35	539.60	28
504.35	104	517.10	36	527.90	90	541.70	105
504.90	31	517.70	25	528.90	77	542.50	37
505.15	125	518.20	26	530.40	39	545.70	221
507.20	25	518.40	54	530.90	53	547.10	81
509.75	72	519.90	17	531.70	28	549.10	35
511.00	25	520.70	51	533.20	144	549.70	50
511.70	36	521.20	67	533.50	38	549.90	54
512.80	119	522.00	30	533.90	83		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109740.D
Acq On : 13 Apr 2016 9:20 pm
Operator : sarad
Sample : dftpp
Misc : op92825,ez5485
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 13 21:26:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: z109740.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

response 0

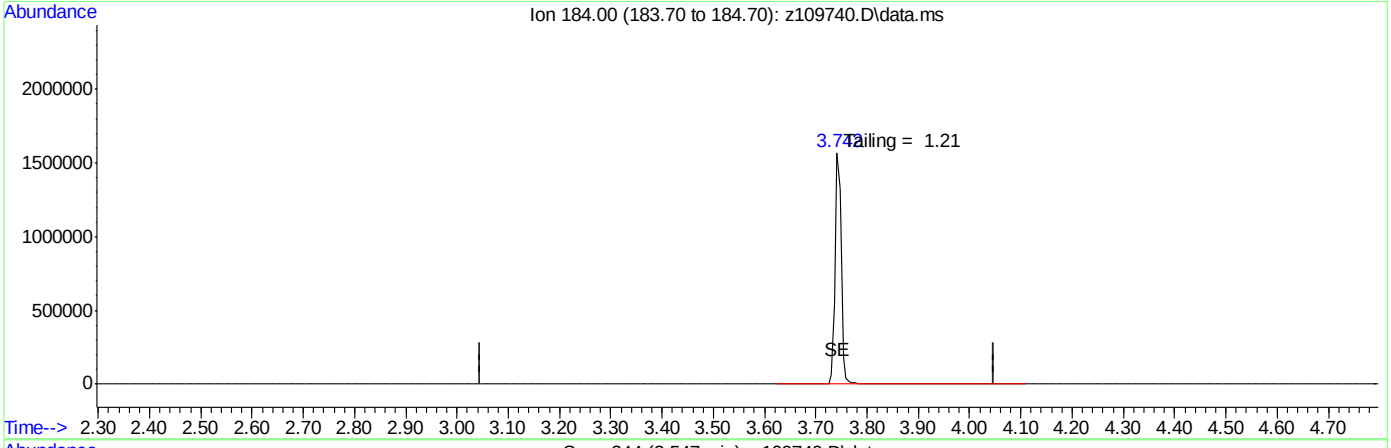
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

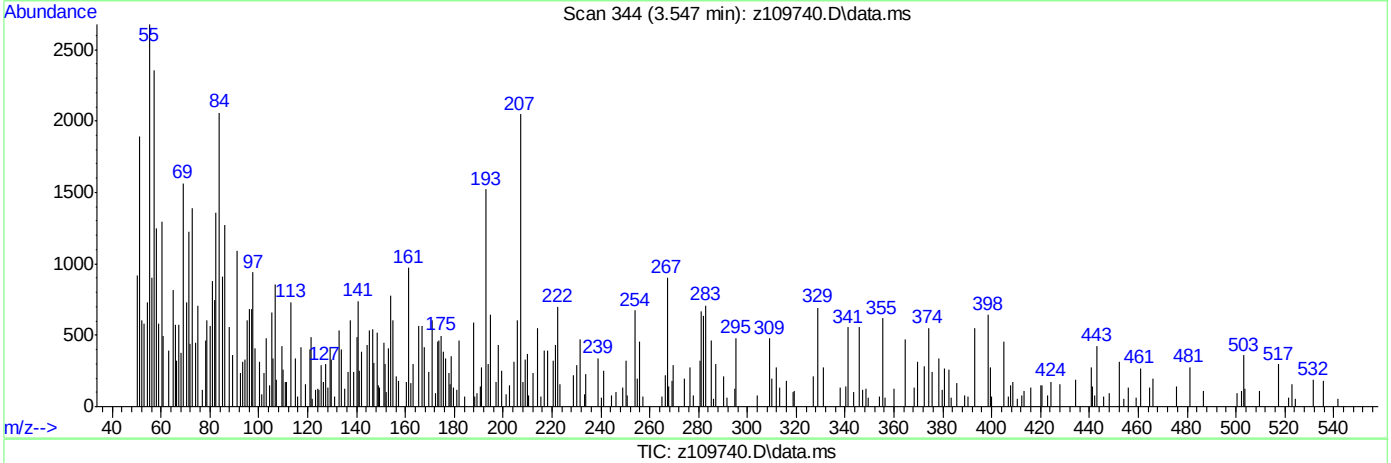
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109740.D
Acq On : 13 Apr 2016 9:20 pm
Operator : sarad
Sample : dftpp
Misc : op92825,ez5485
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 13 21:26:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: z109740.D\data.ms

(2) Benzidine

3.547min (-3.547) 0.00

response 0

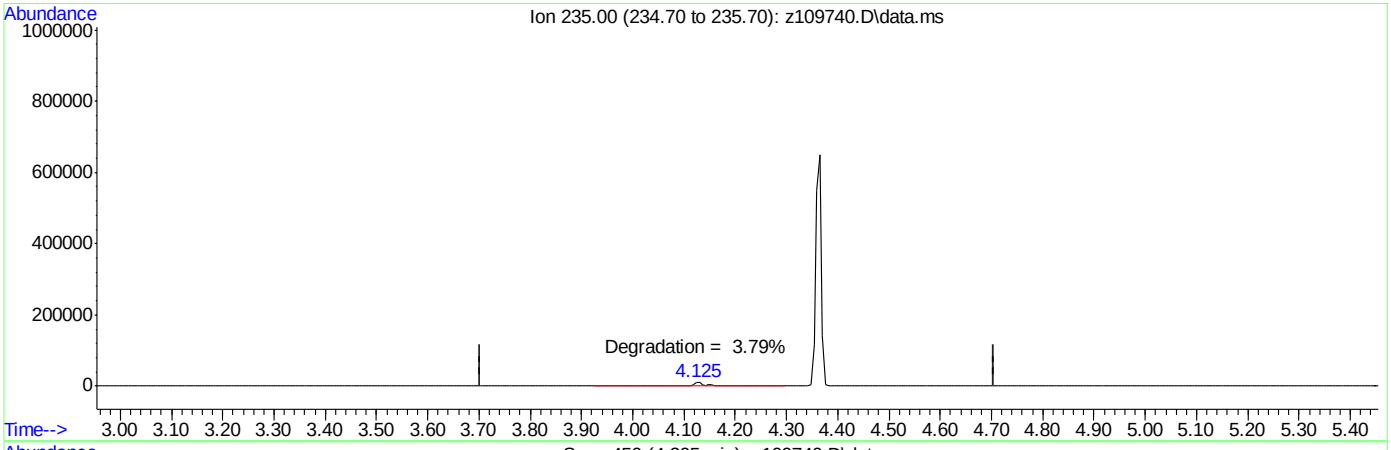
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

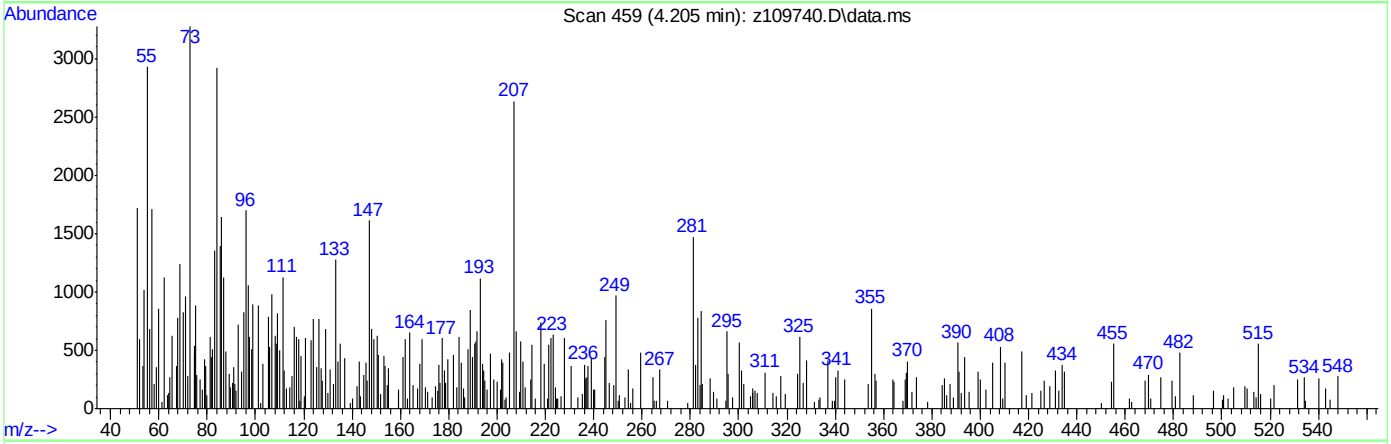
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109740.D
Acq On : 13 Apr 2016 9:20 pm
Operator : sarad
Sample : dftpp
Misc : op92825,ez5485
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 13 21:26:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: z109740.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

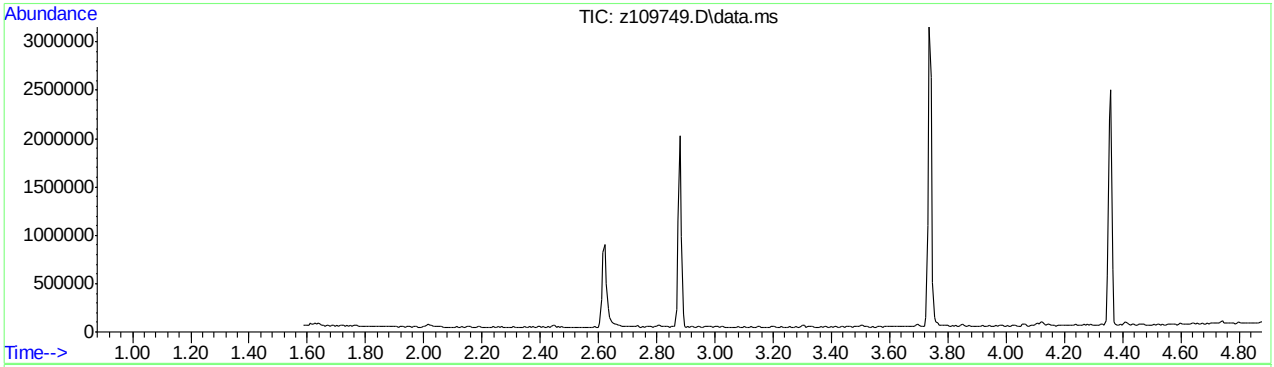
SGS ACCUTEST JC19423

DFTPP

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109749.D
Acq On : 14 Apr 2016 1:39 am
Operator : sarad
Sample : dftpp
Misc : op92825,ez5486
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 226, 227, 228; Background Corrected with Scan 223

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.3	55293	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	37.2	56725	PASS
70	69	0.00	2	0.5	306	PASS
127	198	40	60	51.1	77761	PASS
197	198	0.00	1	0.9	1351	PASS
198	198	100	100	100.0	152306	PASS
199	198	5	9	7.4	11277	PASS
275	198	10	30	25.1	38268	PASS
365	198	1	100	3.3	4988	PASS
441	443	0.01	100	99.3	25892	PASS
442	198	40	100	89.5	136274	PASS
443	442	17	23	19.1	26080	PASS

DFTPPZ.M Thu Apr 14 09:33:45 2016 RTE

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	14743	63.00	2297	71.00	324	81.00	4326
51.10	55293	64.05	238	72.10	91	82.05	868
52.05	3733	64.50	366	72.90	92	83.00	691
53.00	288	65.05	1695	73.15	2976	83.30	506
55.00	902	65.90	56	74.05	5967	85.05	1423
56.10	2243	66.05	155	75.05	8930	86.15	1194
57.05	4171	67.00	219	76.20	897	86.80	211
57.90	87	67.40	465	77.05	58640	87.15	525
59.25	172	68.95	56725	78.05	4288	87.70	83
61.10	702	69.85	121	78.95	4586	88.00	270
62.10	1336	70.30	306	80.00	2964	88.50	124

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.15	487	96.30	248	103.15	1384	111.00	5925
90.60	236	97.00	486	103.40	624	111.85	165
90.90	249	98.00	4833	104.00	1010	112.10	246
91.15	554	98.25	557	104.30	456	113.40	2
91.95	1008	99.00	5535	104.70	142	113.80	61
92.30	1139	99.95	692	105.10	1272	115.15	529
93.10	7521	100.80	426	105.85	169	115.85	78
94.15	715	101.05	1428	107.00	18870	116.20	864
95.30	473	101.70	254	108.05	3213	117.00	12926
95.85	330	101.90	126	108.85	365	117.80	320
96.05	34	102.45	70	109.95	43779	118.10	409

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.95	51	129.95	3330	138.30	88	146.10	210
119.30	32	131.00	569	138.70	89	147.10	2453
120.05	86	131.90	438	140.10	829	148.00	4618
120.90	316	132.45	350	140.40	204	149.10	1354
122.00	1374	133.00	174	141.00	4312	149.80	43
123.05	1698	133.90	865	142.10	1454	150.00	40
123.95	866	135.00	1911	142.90	472	150.80	145
125.05	1229	135.40	704	143.20	369	151.35	427
126.95	77761	135.90	1588	144.00	592	151.85	762
128.05	7808	137.05	1592	144.70	47	152.85	665
129.00	29240	137.90	125	145.80	445	153.80	561

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.10	444	160.10	739	165.75	655	172.80	1135
154.30	634	161.00	2611	166.00	547	173.20	474
155.00	2259	161.80	404	167.05	6730	174.05	1694
155.90	1769	162.10	116	168.10	3196	175.00	2803
156.10	2097	162.40	166	169.10	313	176.05	1374
156.80	67	162.70	235	169.40	11	177.00	1911
157.10	407	163.00	166	170.40	189	177.80	205
158.05	400	163.70	174	170.95	631	178.20	191
158.30	113	164.20	501	171.20	102	178.85	530
159.15	562	164.70	120	171.90	330	179.05	3141
159.90	629	165.15	1227	172.10	400	180.05	3912

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
181.05	1675	187.80	165	195.90	907	206.05	30000
181.95	673	188.05	304	196.15	4613	206.95	4682
182.55	577	189.00	1356	196.80	1351	208.05	1614
182.90	231	189.70	194	198.00	152306	209.10	773

DFTPPZ.M Thu Apr 14 09:33:45 2016 RTE Page: 2

183.50	258	190.00	121	199.00	11277	210.15	582
183.70	221	190.95	1273	200.50	85	210.80	989
183.95	373	192.15	1347	200.80	391	211.15	1162
184.80	412	193.00	1559	201.50	1017	211.50	493
185.25	2625	193.80	163	203.10	1597	212.05	385
185.95	18698	194.10	295	204.05	5901	212.75	268
187.05	5743	194.40	196	205.05	8004	213.20	66

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
214.10	136	223.30	1837	231.50	48	239.20	365
215.15	211	224.10	18917	231.90	92	239.95	342
215.95	996	225.05	5319	233.15	340	240.30	80
216.20	719	226.10	211	234.20	551	240.60	158
217.00	6511	227.00	6560	235.00	892	241.00	687
218.00	1517	228.00	1285	235.80	129	242.10	1024
219.00	206	228.95	888	236.00	462	242.90	610
219.90	179	229.20	373	236.60	115	243.15	245
221.10	8285	230.05	283	237.35	152	244.10	17026
222.00	818	230.80	100	238.20	141	245.05	1582
223.10	1513	231.00	302	238.70	125	246.00	1785

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
246.20	789	253.30	923	263.65	140	272.00	87
246.70	161	255.00	71501	264.20	9	272.15	548
247.00	475	256.00	9628	265.05	1600	273.15	3077
247.60	49	256.95	884	266.10	271	274.05	7344
248.00	176	257.20	326	266.70	56	275.05	38268
249.00	934	258.10	3677	268.55	161	275.90	1453
249.50	80	259.15	869	269.05	126	276.05	4419
251.00	111	260.20	253	269.75	224	277.00	2561
251.30	64	260.70	27	270.50	131	278.00	165
252.40	453	261.00	37	270.70	71	278.25	409
252.95	461	262.80	43	271.40	293	279.10	150

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
279.60	40	289.20	100	298.60	140	309.00	17
281.05	658	290.15	226	299.00	102	309.20	18
282.50	132	290.70	81	300.50	173	311.00	56
282.90	198	292.10	309	301.05	518	312.60	67
283.90	353	292.30	70	302.10	531	312.90	25
284.20	212	293.10	1104	302.70	69	313.60	95
284.70	340	293.80	109	303.00	1653	314.00	373
284.95	328	294.10	129	303.50	61	314.60	90
285.90	54	295.20	397	303.95	238	315.05	1675
286.40	29	296.05	9174	304.20	215	316.05	884
288.70	140	297.70	159	307.95	157	317.40	171

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
318.35	97	325.00	396	332.35	286	339.70	44
318.80	34	326.00	483	332.70	101	340.20	132
319.15	269	327.00	566	333.30	229	340.50	40
319.80	56	327.70	121	334.00	2919	340.90	149
320.60	35	327.90	150	335.20	846	341.25	521
321.00	340	328.10	126	336.00	107	342.10	403
321.70	37	329.30	107	337.35	114	342.95	178
322.00	328	329.60	92	338.00	25	343.20	60
323.05	4178	331.00	31	338.40	51	343.90	35
324.10	361	331.20	127	339.15	274	344.70	81
324.30	149	331.90	284	339.40	86	345.80	301

Average of 2.873 to 2.884 min.: z109749.D\data.ms

DFTPPZ.M Thu Apr 14 09:33:45 2016 RTE Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.10	714	351.70	142	357.85	259	365.80	317
346.70	114	352.00	735	358.70	57	366.10	399
347.00	32	352.35	382	359.00	130	366.60	111
347.15	167	353.05	1204	359.65	153	367.15	279
347.80	59	354.05	1966	360.30	180	369.05	117
348.40	63	354.70	290	360.80	25	370.00	180
348.90	103	355.00	118	362.50	201	370.90	298
349.40	76	355.20	98	362.70	29	371.20	165
350.00	116	356.15	209	363.70	25	372.05	3137
350.40	20	356.90	176	364.30	224	373.05	950
350.80	360	357.10	80	364.90	4988	373.60	193

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.90	75	385.55	188	393.15	144	401.95	742
374.30	62	386.80	24	394.60	70	402.30	194
377.20	298	387.30	218	395.55	59	403.15	1548
378.05	170	388.50	164	396.30	18	403.80	150
378.70	18	389.40	95	397.20	104	404.20	353
380.00	53	389.80	161	398.30	45	404.50	242
381.80	45	390.30	197	398.70	166	405.60	137
382.20	56	390.80	37	399.30	67	406.70	144
383.10	408	391.10	117	399.60	184	407.60	75
383.90	146	391.40	156	401.00	226	408.40	59
384.15	513	392.20	273	401.70	343	408.60	148

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
410.95	18	420.00	42	425.60	48	432.70	86
411.40	49	420.20	201	425.90	97	433.50	254
412.00	184	420.60	438	426.25	144	434.40	137
412.40	122	421.10	1003	426.80	44	434.80	252
413.00	20	422.00	343	427.50	126	435.40	93
415.10	308	422.25	1829	429.15	517	435.60	120
415.85	108	423.05	7353	429.95	95	436.20	499
416.90	35	423.90	370	431.00	134	436.70	526
417.10	147	424.15	1687	431.35	192	437.10	380
418.20	146	424.70	122	432.20	137	437.60	800
419.35	72	425.20	129	432.50	164	438.10	507

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
438.50	653	447.20	18	458.50	81	468.50	19
439.00	541	447.50	33	459.80	25	470.70	27
439.60	1868	449.40	39	460.10	18	471.90	149
441.15	25892	449.90	42	461.90	84	472.40	98
442.10	136274	450.20	161	462.90	65	477.30	80
443.10	26080	450.80	74	464.10	20	479.50	95
443.80	1412	454.00	27	464.60	46	480.90	21
444.15	1496	455.80	36	465.95	130	481.90	42
445.25	302	456.00	21	467.00	71	483.30	16
446.00	256	457.50	38	467.30	71	484.20	25
447.00	106	457.90	56	467.60	88	487.20	50

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
489.10	119	503.20	84	521.40	159	533.10	28
490.30	66	504.00	240	523.00	19	535.05	62
491.65	146	506.60	150	524.40	120	537.50	40
494.10	20	507.20	61	525.10	92	537.80	62
494.60	69	510.50	43	526.10	162	539.30	59

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496.80	42	511.00	43	527.60	31	540.20	18
499.50	20	512.10	38	528.20	76	541.20	114
501.10	19	512.30	54	528.50	129	542.70	106
501.90	89	514.20	183	529.10	30	543.10	74
502.20	33	518.00	64	529.80	19	545.50	76
502.90	112	519.50	39	530.40	18	546.10	166

Average of 2.873 to 2.884 min.: z109749.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
548.10	35						
548.90	16						
549.45	132						

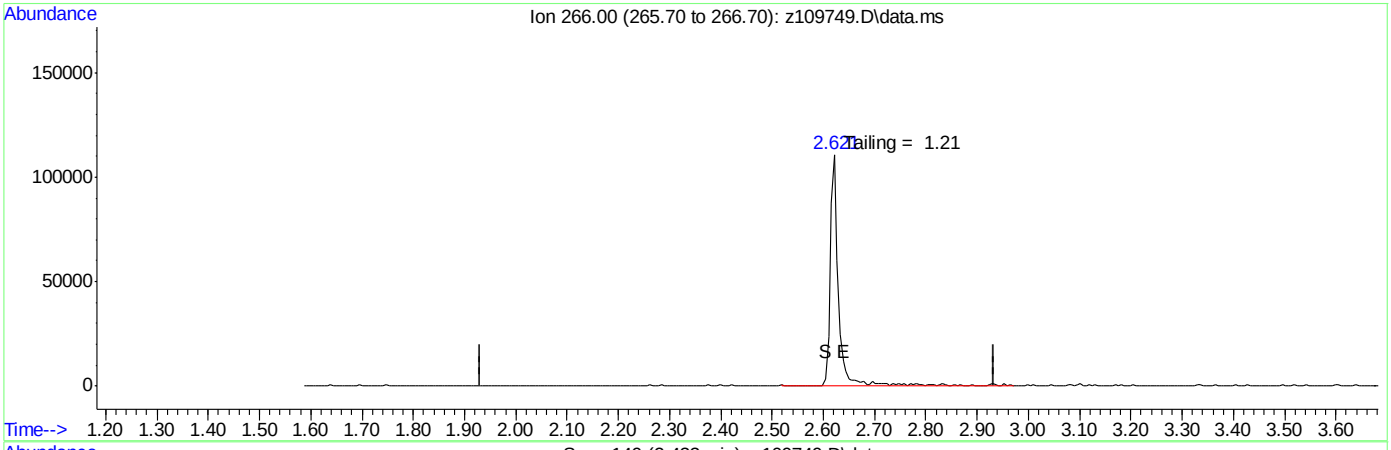
7.5.20

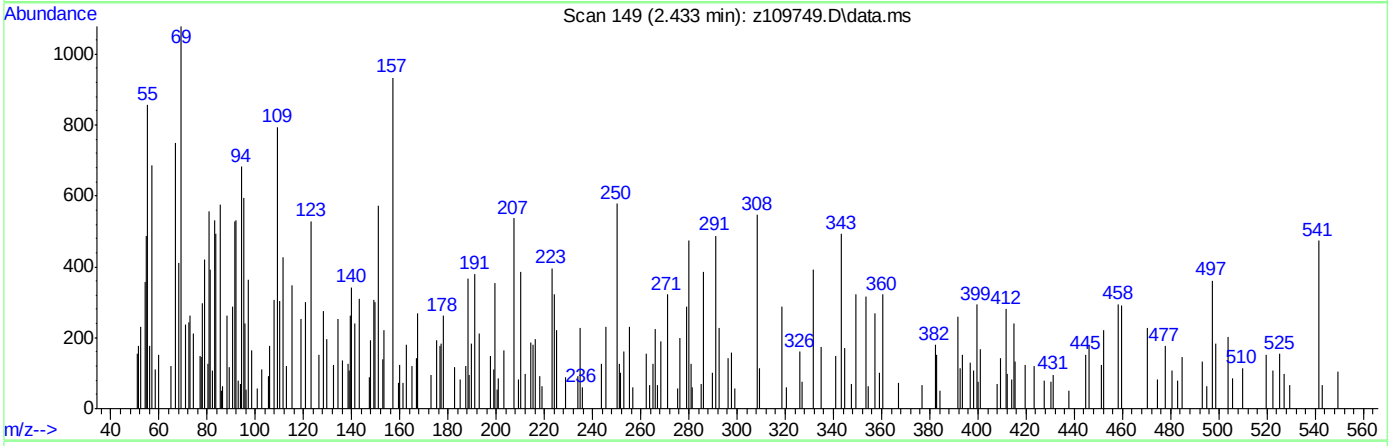
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109749.D
Acq On : 14 Apr 2016 1:39 am
Operator : sarad
Sample : dftpp
Misc : op92825,ez5486
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 01:45:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: z109749.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

response 0

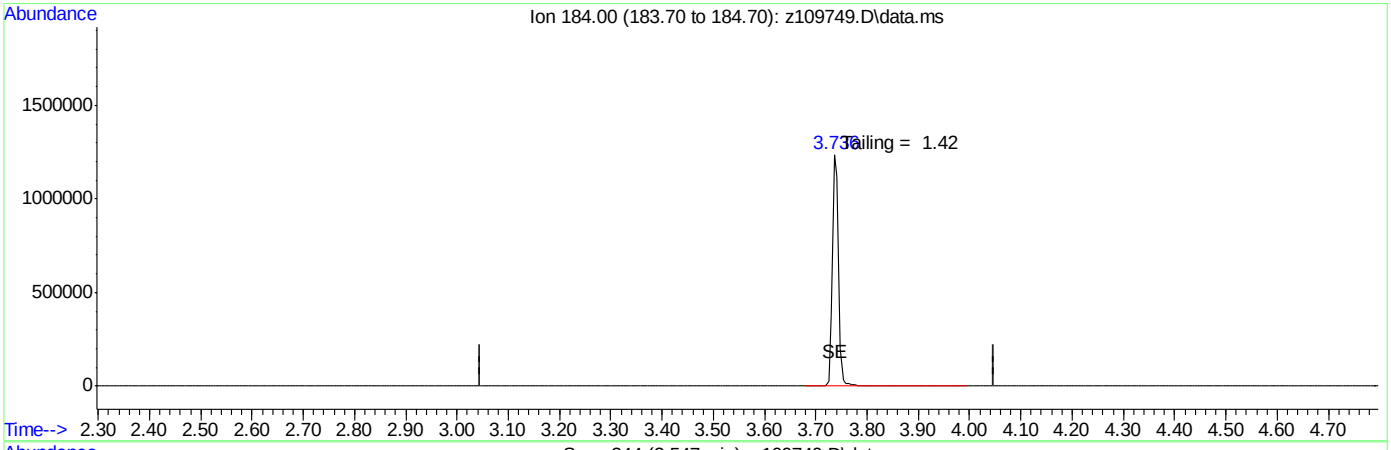
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

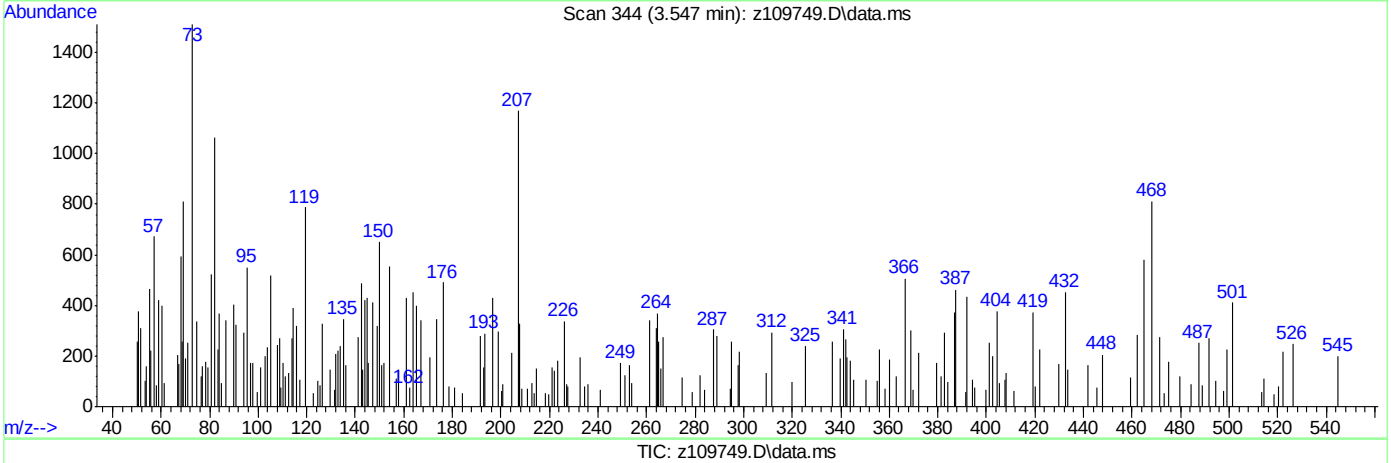
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109749.D
Acq On : 14 Apr 2016 1:39 am
Operator : sarad
Sample : dftpp
Misc : op92825,ez5486
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 01:45:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: z109749.D\data.ms

(2) Benzidine

3.547min (-3.547) 0.00

response 0

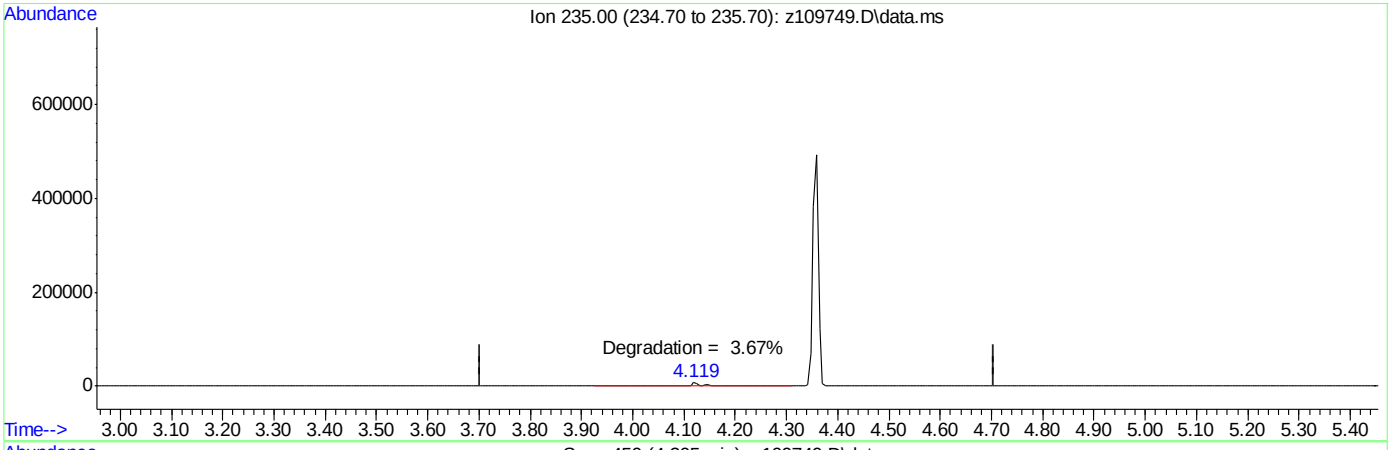
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

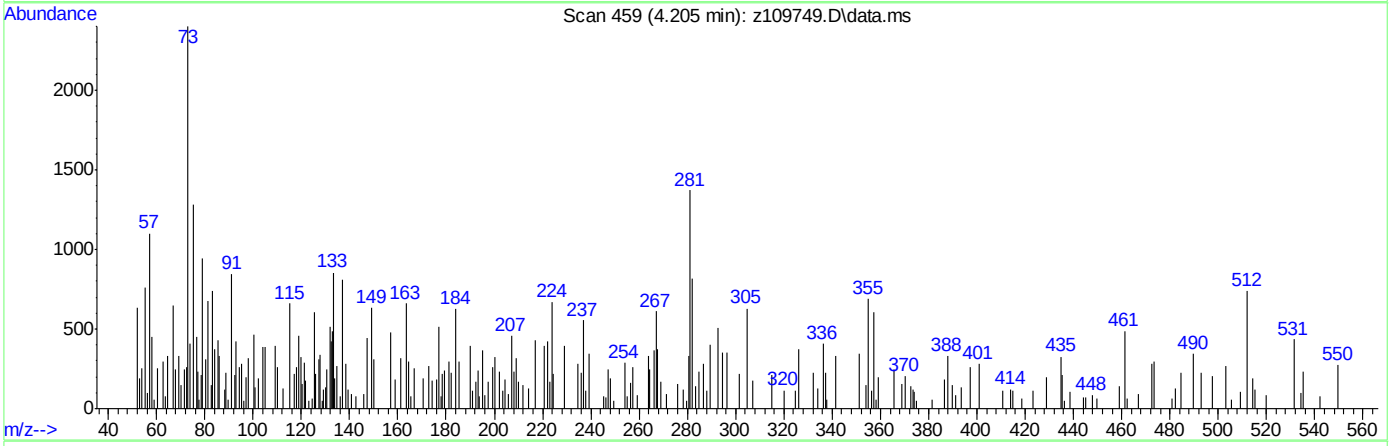
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109749.D
Acq On : 14 Apr 2016 1:39 am
Operator : sarad
Sample : dftpp
Misc : op92825,ez5486
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 01:45:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: z109749.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

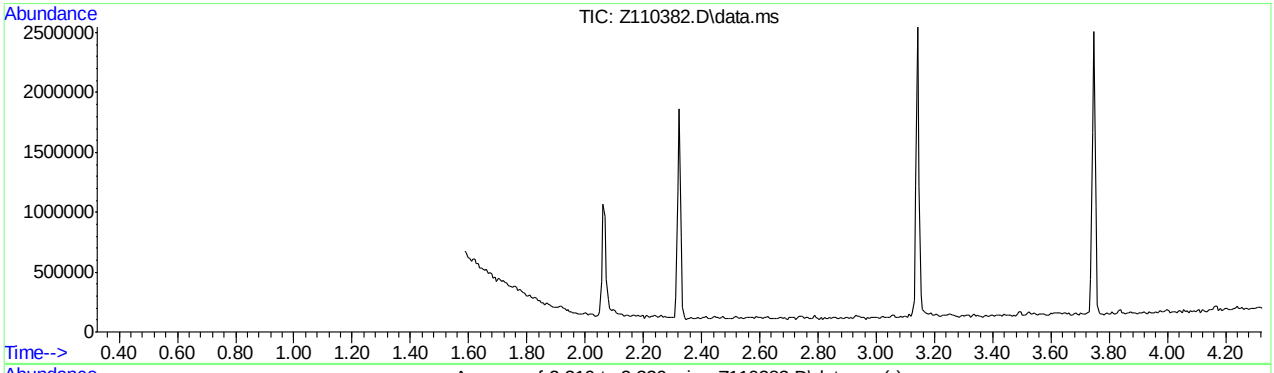
SGS ACCUTEST JC19423

DFTPP

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110382.D
Acq On : 5 May 2016 9:33 am
Operator : ashleyd
Sample : dftpp
Misc : op93086,ez5515
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 129, 130, 131; Background Corrected with Scan 125

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.1	43008	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.0	53091	PASS
70	69	0.00	2	0.2	84	PASS
127	198	40	60	57.4	64782	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	112957	PASS
199	198	5	9	8.3	9368	PASS
275	198	10	30	29.3	33152	PASS
365	198	1	100	4.3	4890	PASS
441	443	0.01	100	93.8	18318	PASS
442	198	40	100	81.6	92216	PASS
443	442	17	23	21.2	19535	PASS

SGS ACCUTEST JC19423

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	14541	60.15	320	66.75	280	79.05	4150
51.05	43008	60.55	8	69.10	53091	80.05	3669
52.10	2421	61.25	827	70.10	84	81.10	5937
53.10	469	62.05	922	70.85	355	82.05	1521
54.00	276	63.15	2173	72.00	168	82.40	363
54.30	299	64.00	490	73.15	4269	83.05	1375
55.20	1416	64.20	63	74.05	5556	85.05	1436
55.90	1674	64.65	579	75.05	9710	85.95	3793
57.10	2866	65.10	133	76.10	2875	87.05	847
58.20	469	65.90	151	77.10	55120	88.05	1989
59.90	138	66.15	4	78.05	2581	89.00	50

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.20	78	101.10	2158	112.20	111	118.90	165
92.20	1418	102.00	127	112.80	213	119.80	24
93.00	7853	103.00	1319	113.10	174	120.10	332
94.10	352	103.50	248	113.70	260	120.55	326
94.95	468	104.05	1728	114.10	207	121.00	378
96.15	322	105.20	1647	115.40	119	121.50	459
97.40	214	107.05	18165	116.00	823	122.05	2517
98.10	7822	108.10	3290	116.30	1301	123.00	1950
99.10	4487	110.05	33899	117.10	17348	124.00	1586
100.00	74	111.05	5714	118.05	853	124.70	169
100.40	6	112.00	775	118.60	99	125.10	628

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
125.35	429	134.20	146	139.75	630	146.25	387
127.10	64782	135.10	651	141.10	2399	147.10	2984
128.05	5910	136.00	546	141.80	323	148.05	4954
129.05	26430	136.20	401	142.05	1035	148.90	739
129.85	1652	137.10	416	142.85	664	149.20	772
130.05	1311	137.40	114	143.60	16	150.20	248
131.25	613	137.60	83	143.80	41	150.80	50
131.50	268	138.10	334	144.10	209	152.05	689
132.95	443	138.50	132	144.90	292	153.00	489
133.50	160	139.10	320	145.20	271	153.25	968
134.00	1329	139.30	276	145.85	695	154.10	933

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.90	740	164.85	475	171.05	741	177.15	1572
155.10	607	165.95	1195	171.90	211	178.00	165
156.00	2844	166.90	1939	172.20	532	178.95	5313
157.00	1178	167.10	3391	172.70	195	180.10	4789
158.10	1671	167.60	899	173.05	905	181.05	1535
158.90	711	168.10	1378	173.95	1850	182.00	93
159.90	1238	168.85	547	174.95	1732	182.50	536
160.25	108	169.50	111	175.20	326	182.80	181
160.80	292	169.90	106	176.05	1092	183.15	165
161.05	1230	170.10	81	176.40	190	184.05	103
162.05	878	170.30	107	176.90	523	184.80	1019

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.00	671	190.90	769	200.05	464	207.10	4876
185.30	1047	191.10	727	200.70	69	208.05	2318
186.05	17290	192.00	923	200.90	286	209.00	557
187.10	5206	193.05	1591	201.10	275	210.15	516

DFTPPZ.M Thu May 05 09:44:14 2016 RTE Page: 2

187.80	513	194.10	420	201.40	351	210.40	388
188.10	126	194.60	463	202.05	388	210.80	663
188.60	55	195.15	581	202.30	35	211.00	875
188.90	216	196.15	4050	203.10	1258	211.20	231
189.10	545	198.00	112957	204.10	5512	212.05	258
189.80	186	199.00	9368	205.05	11607	212.30	46
190.00	104	199.85	609	206.10	32288	212.90	57

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.90	44	220.40	698	227.95	1589	235.15	218
214.30	272	220.95	8137	228.85	690	235.90	346
214.70	232	221.45	812	230.05	398	236.15	136
215.00	212	221.70	1131	230.80	200	237.00	795
215.40	39	221.90	787	231.05	665	238.30	241
216.90	2936	222.90	722	231.90	418	238.90	52
217.05	5522	223.20	1777	232.60	73	239.90	86
218.00	1049	224.10	18921	232.90	170	240.20	144
218.90	173	225.00	5065	233.80	235	240.85	366
219.15	158	226.20	206	234.05	703	241.10	266
219.60	127	227.00	8143	234.75	316	241.30	61

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
241.70	299	248.00	137	256.90	570	265.00	919
242.00	835	248.95	488	257.10	487	265.75	408
242.30	174	249.20	276	258.10	4832	267.50	72
242.80	445	250.10	173	259.00	278	268.05	130
243.00	674	251.20	380	259.20	707	268.75	59
244.10	11585	252.10	604	260.00	201	269.90	27
245.05	600	252.35	316	260.20	56	270.20	46
245.85	1047	253.00	193	261.15	312	270.50	156
246.10	1590	253.40	494	262.40	216	271.05	210
246.95	696	255.05	70708	263.75	627	271.90	168
247.40	150	256.05	10237	264.15	147	273.10	3298

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
274.05	6299	282.20	451	290.30	136	300.00	82
275.10	33152	282.95	735	290.70	200	301.00	42
276.05	4528	283.60	40	292.00	102	301.20	407
276.90	736	284.00	107	292.70	301	301.70	52
277.10	2453	284.90	405	293.00	862	302.00	203
278.05	324	285.20	89	293.80	249	302.75	619
278.30	29	285.90	210	294.40	120	303.20	926
279.90	42	286.60	283	294.95	465	303.40	137
281.10	1580	288.70	280	296.00	7443	304.00	490
281.50	180	289.10	81	297.05	1439	304.70	47
281.90	414	289.80	31	298.20	97	305.30	101

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
307.30	167	314.95	1240	323.10	2764	332.20	105
308.20	287	315.80	304	324.10	683	333.00	180
309.30	218	316.05	572	324.85	277	333.20	62
309.70	109	317.10	123	326.65	154	334.00	1710
309.90	237	317.90	176	326.90	227	335.00	684
310.15	108	318.20	43	327.15	209	335.45	332
310.70	109	320.30	11	327.70	107	336.40	61
311.40	86	320.70	54	328.30	455	337.20	127
312.90	223	321.20	136	328.95	370	337.70	27
313.70	28	321.85	354	330.20	40	338.10	45
314.25	407	322.30	117	331.65	291	338.80	52

Average of 2.319 to 2.330 min.: Z110382.D\data.ms

DFTPPZ.M Thu May 05 09:44:14 2016 RTE Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
339.30	80	351.00	121	358.00	153	365.05	4890
339.60	115	351.90	124	358.50	125	366.15	396
341.00	756	352.10	1243	358.90	63	368.50	35
341.70	136	353.05	1100	359.30	171	369.00	30
342.20	112	353.65	352	359.80	75	370.10	188
343.10	79	354.15	670	360.60	100	370.90	272
344.90	105	354.60	222	361.20	396	372.15	2393
345.95	638	354.80	277	361.70	71	372.85	128
346.30	50	355.30	746	362.80	217	373.80	140
346.60	256	356.00	151	363.70	100	374.30	201
349.00	204	356.95	462	364.20	255	374.80	28

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
376.30	73	386.80	50	401.80	236	411.10	36
376.70	145	387.90	102	402.00	692	411.30	63
377.20	361	390.00	212	403.05	919	413.35	8
378.00	46	390.60	362	403.80	378	414.80	210
379.50	89	392.10	322	404.30	191	416.00	35
380.25	247	392.80	66	404.85	281	416.20	76
381.10	137	395.20	146	406.05	192	417.40	48
382.40	71	398.80	123	406.60	81	418.60	77
382.95	190	399.20	154	407.90	17	419.10	137
385.00	86	401.10	167	409.80	43	419.30	98
385.50	25	401.50	48	410.60	53	420.20	102

Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
420.85	1106	428.80	28	439.20	387	452.00	26
421.40	219	429.30	128	439.50	503	452.60	83
421.90	370	430.80	185	439.85	756	455.30	29
423.05	6101	432.50	27	440.10	706	456.60	32
423.70	128	434.10	82	441.15	18318	458.60	246
424.05	1496	434.60	45	442.10	92216	459.20	134
424.95	273	436.20	367	443.05	19535	466.10	335
425.30	119	436.70	494	444.15	1800	466.55	79
426.70	31	437.30	182	445.05	141	468.20	71
427.90	93	438.05	644	445.40	110	469.00	81
428.40	44	438.50	557	446.00	37	471.20	36

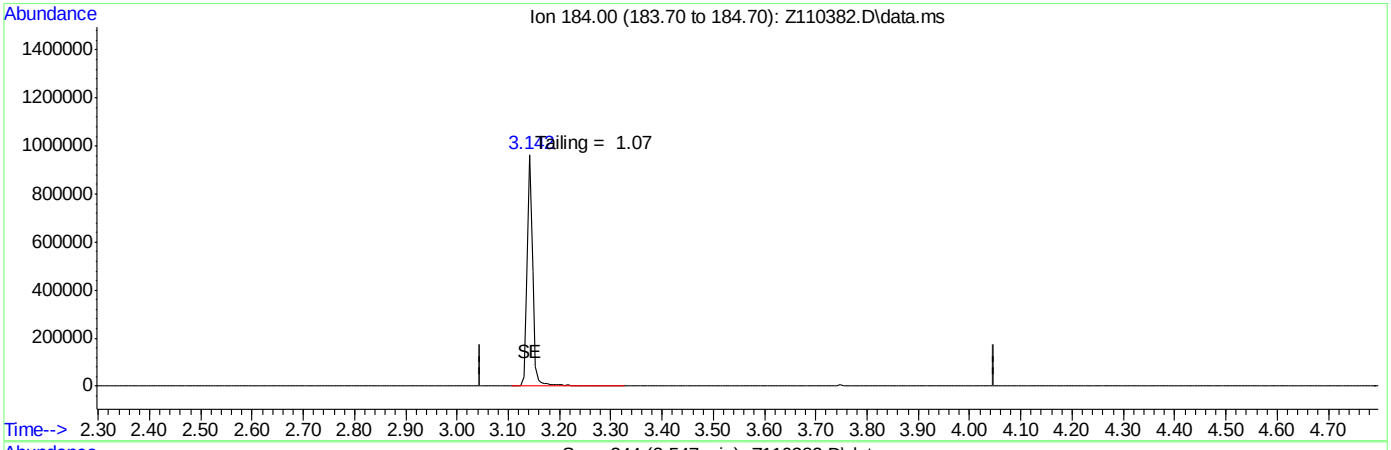
Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

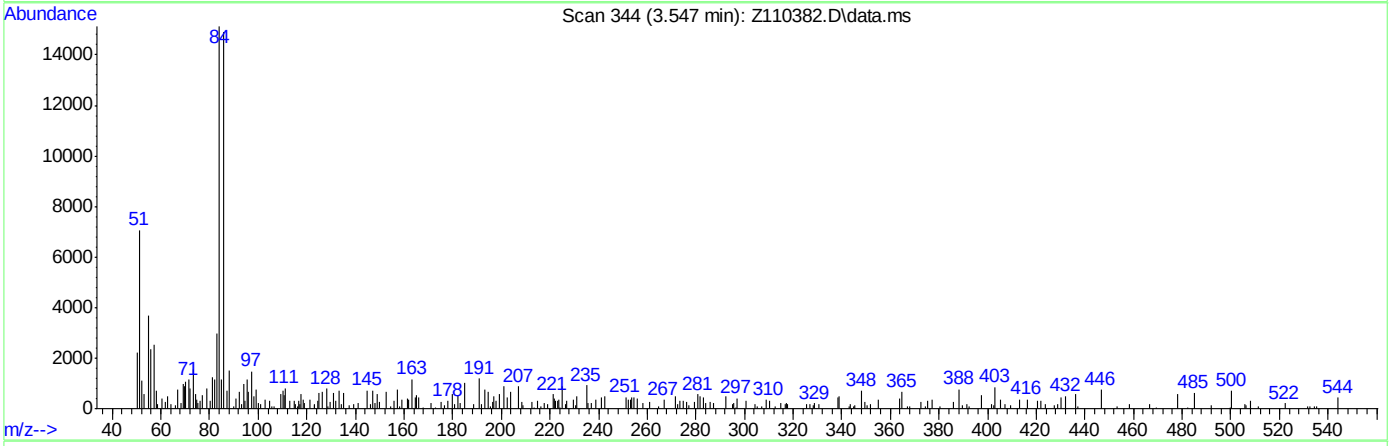
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
472.80	23	492.00	26	513.00	125	536.60	174
473.20	190	493.00	25	513.70	125	540.60	51
474.00	78	493.40	78	515.80	138	541.50	149
475.60	181	494.80	46	524.30	120	542.70	18
477.15	159	495.00	91	524.80	22	545.10	163
478.50	122	497.60	22	525.30	26	546.40	44
479.50	82	500.70	52	527.50	34	549.80	180
482.40	120	503.00	184	528.60	56		
487.90	9	504.05	91	533.00	36		
488.80	17	504.80	89	535.60	70		
489.70	28	508.50	23	536.00	48		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110382.D
Acq On : 5 May 2016 9:33 am
Operator : ashleyd
Sample : dftpp
Misc : op93086,ez5515
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 05 09:39:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z110382.D\data.ms

(2) Benzidine

3.547min (-3.547) 0.00

response 0

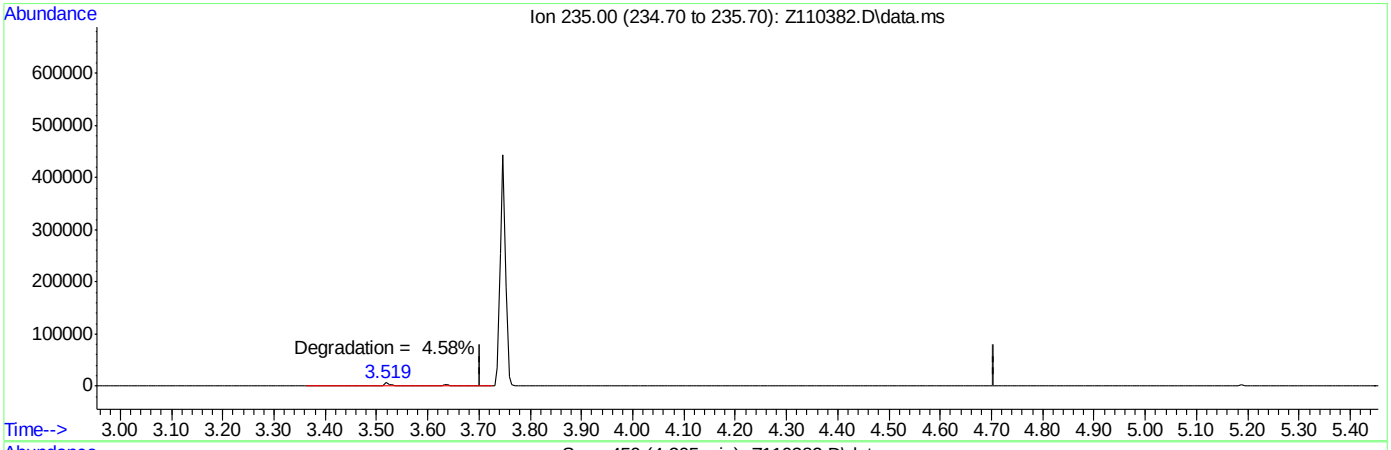
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

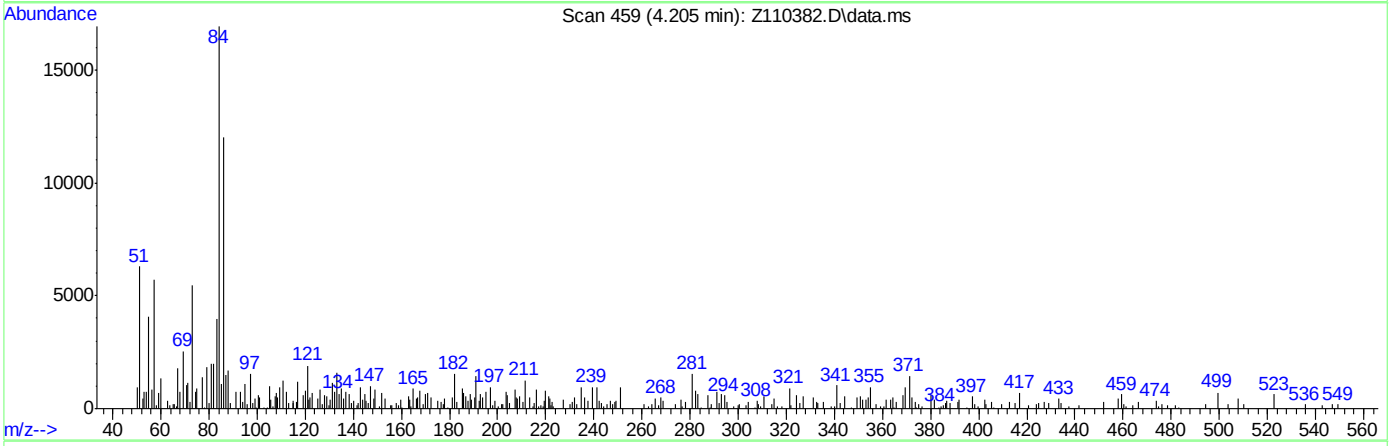
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110382.D
Acq On    :  5 May 2016   9:33 am
Operator  : ashleyd
Sample    : dftpp
Misc      : op93086,ez5515
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: May 05 09:39:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title  : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration
```





TIC: Z110382.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

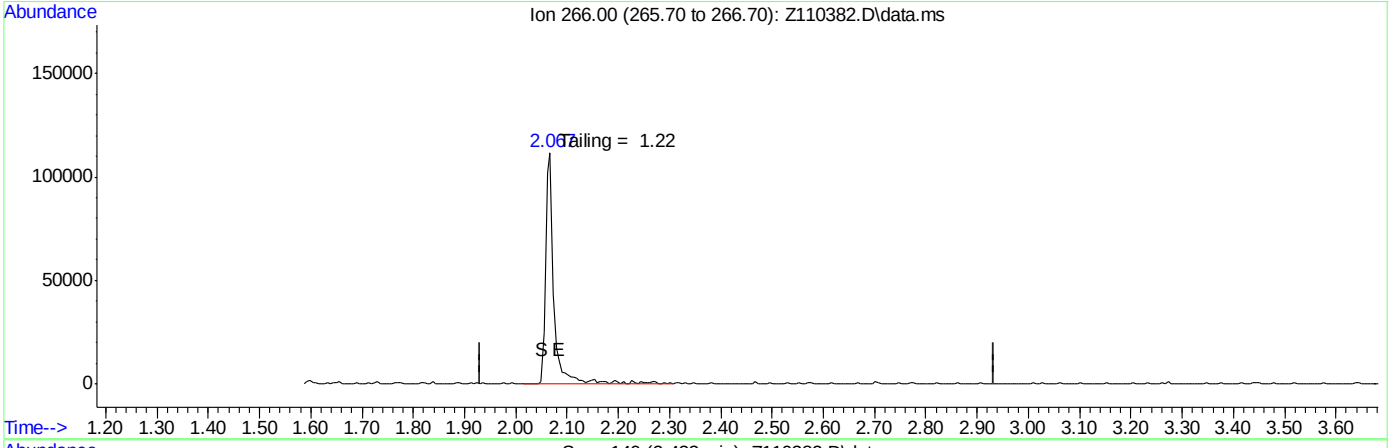
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

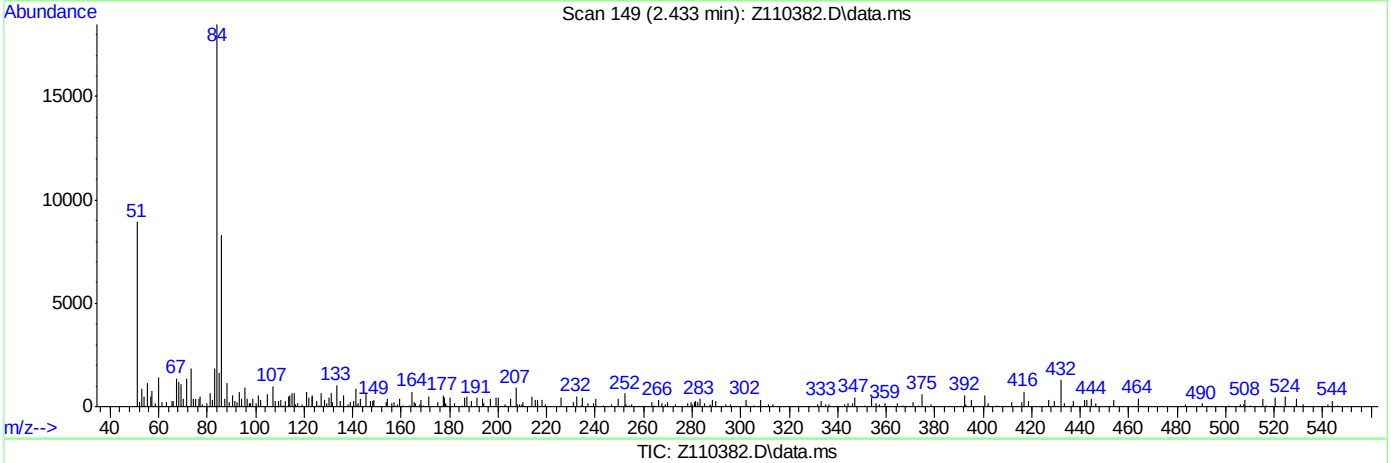
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110382.D
Acq On : 5 May 2016 9:33 am
Operator : ashleyd
Sample : dftpp
Misc : op93086,ez5515
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 05 09:39:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z110382.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

response 0

Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPPZ.M Thu May 05 16:52:41 2016 RTE

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82669.D
Acq On : 26 Apr 2016 1:34 pm
Operator : ashleyn
Sample : ic3621-100
Misc : op93161,e3e3621
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 08:57:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MTue Apr 26 13:56:22 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	289593	40.00	ppm	0.00
24) Naphthalene-d8	5.610	136	1157319	40.00	ppm	0.00
47) Acenaphthene-d10	7.642	164	511334	40.00	ppm	0.00
69) Phenanthrene-d10	9.814	188	859541	40.00	ppm	0.00
83) Chrysene-d12	13.991	240	778490	40.00	ppm	0.00
92) Perylene-d12	16.109	264	696836	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.540	152	289593	40.00	ppm	0.00
104) Acenaphthene-d10a	7.642	164	511334	40.00	ppm	0.00
106) Phenanthrene-d10a	9.814	188	859541	40.00	ppm	0.00
110) Chrysene-d12a	13.991	240	778490	40.00	ppm	0.00
112) Naphthalene-d8a	5.610	136	1157319	40.00	ppm	0.00
114) Chrysene-d12b	13.991	240	778490	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.455	230	1043182	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
109) 1-Chlorooctadecane	11.670	57	672048	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	

Target Compounds						Qvalue
103) Benzaldehyde	4.219	105	478506	100.00	ppm	91
105) 1,2,4,5-Tetrachloroben...	6.546	216	621919	100.00	ppm	99
107) Atrazine	9.487	215	208636	100.00	ppm	83
111) benzidine	11.990	184	683580	100.00	ppm	99
113) Hydroquinone	6.069	110	812292	100.00	ppm	94

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

7.6.1

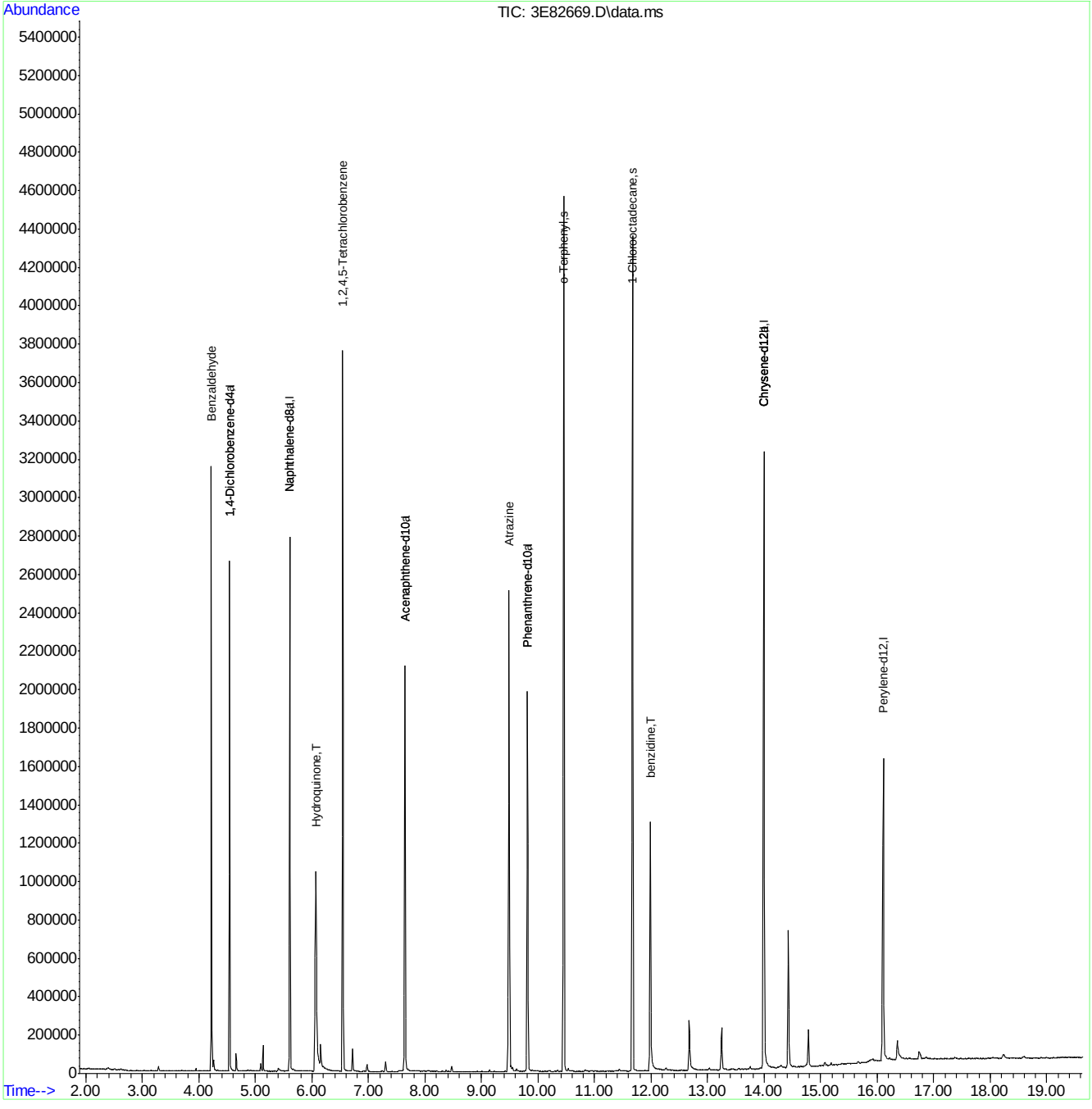
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82669.D
Acq On : 26 Apr 2016 1:34 pm
Operator : ashleyn
Sample : ic3621-100
Misc : op93161,e3e3621
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 08:57:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MTue Apr 26 13:56:22 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82670.D
Acq On : 26 Apr 2016 2:00 pm
Operator : ashleyn
Sample : ic3621-80
Misc : op93161,e3e3621
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 27 08:58:09 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	276746	40.00	ppm	0.00
24) Naphthalene-d8	5.609	136	1122369	40.00	ppm	0.00
47) Acenaphthene-d10	7.642	164	498619	40.00	ppm	0.00
69) Phenanthrene-d10	9.813	188	838282	40.00	ppm	0.00
83) Chrysene-d12	13.991	240	789250	40.00	ppm	0.00
92) Perylene-d12	16.103	264	723819	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.540	152	276746	40.00	ppm	0.00
104) Acenaphthene-d10a	7.642	164	498619	40.00	ppm	0.00
106) Phenanthrene-d10a	9.813	188	838282	40.00	ppm	0.00
110) Chrysene-d12a	13.991	240	789250	40.00	ppm	0.00
112) Naphthalene-d8a	5.609	136	1122369	40.00	ppm	0.00
114) Chrysene-d12b	13.991	240	789250	40.00	ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	10.455	230	837120	82.28	ppm	0.00
Spiked Amount 50.000			Recovery = 164.56%			
109) 1-Chlorooctadecane	11.669	57	538274	82.13	ppm	0.00
Spiked Amount 50.000			Recovery = 164.26%			

Target Compounds						Qvalue
103) Benzaldehyde	4.219	105	441377	96.52	ppm	93
105) 1,2,4,5-Tetrachloroben...	6.545	216	485916	80.12	ppm	99
107) Atrazine	9.487	215	168112	82.62	ppm	89
111) benzidine	11.985	184	537199	77.51	ppm	99
113) Hydroquinone	6.059	110	665047	84.42	ppm	92

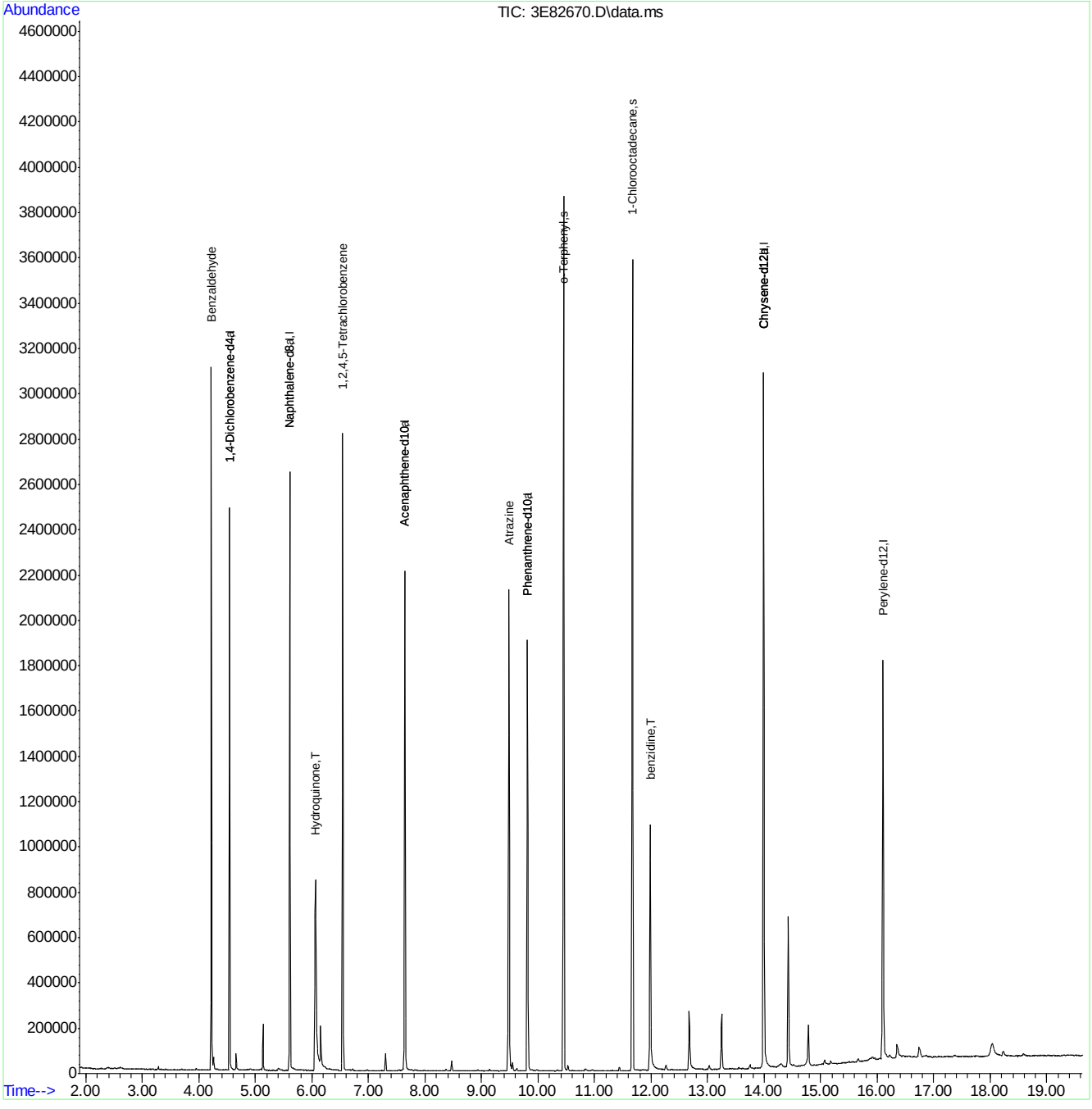
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82670.D
Acq On : 26 Apr 2016 2:00 pm
Operator : ashleyn
Sample : ic3621-80
Misc : op93161,e3e3621
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 27 08:58:09 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration



M3E3620.M Wed Apr 27 08:58:26 2016 MS3E Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82671.D
Acq On : 26 Apr 2016 2:26 pm
Operator : ashleyn
Sample : icc3621-50
Misc : op93161,e3e3621
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 27 08:58:47 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	279549	40.00 ppm	0.00
24) Naphthalene-d8	5.610	136	1138547	40.00 ppm	0.00
47) Acenaphthene-d10	7.642	164	515041	40.00 ppm	0.00
69) Phenanthrene-d10	9.808	188	889382	40.00 ppm	0.00
83) Chrysene-d12	13.991	240	844557	40.00 ppm	0.00
92) Perylene-d12	16.104	264	792881	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.540	152	279549	40.00 ppm	0.00
104) Acenaphthene-d10a	7.642	164	515041	40.00 ppm	0.00
106) Phenanthrene-d10a	9.808	188	889382	40.00 ppm	0.00
110) Chrysene-d12a	13.991	240	844557	40.00 ppm	0.00
112) Naphthalene-d8a	5.610	136	1138547	40.00 ppm	0.00
114) Chrysene-d12b	13.991	240	844557	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
108) o-Terphenyl	10.455	230	548454	50.81 ppm	0.00
Spiked Amount 50.000			Recovery	= 101.62%	
109) 1-Chlorooctadecane	11.670	57	363504	52.27 ppm	0.00
Spiked Amount 50.000			Recovery	= 104.54%	

Target Compounds					Qvalue
103) Benzaldehyde	4.219	105	353989	76.64 ppm	95
105) 1,2,4,5-Tetrachloroben...	6.540	216	310522	49.57 ppm	99
107) Atrazine	9.482	215	112114	51.93 ppm	90
111) benzidine	11.985	184	456367	61.54 ppm	99
113) Hydroquinone	6.059	110	432342	54.10 ppm	95

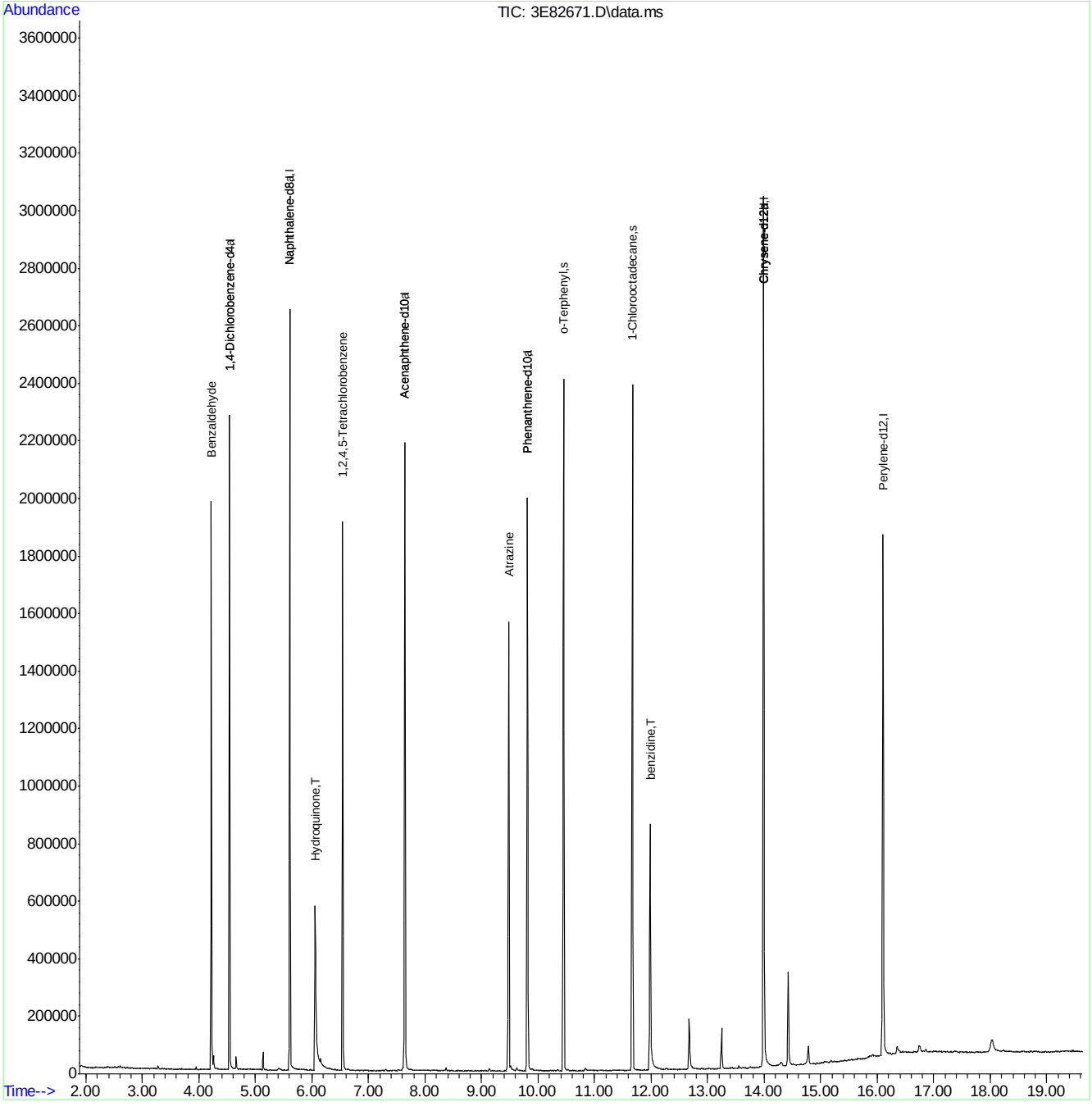
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82671.D
Acq On : 26 Apr 2016 2:26 pm
Operator : ashleyn
Sample : icc3621-50
Misc : op93161,e3e3621
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 27 08:58:47 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration



M3E3620.M Wed Apr 27 08:59:02 2016 MS3E Page: 2

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82672.D
Acq On : 26 Apr 2016 2:52 pm
Operator : ashleyn
Sample : ic3621-25
Misc : op93161,e3e3621
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 27 08:59:26 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	289158	40.00 ppm	0.00
24) Naphthalene-d8	5.609	136	1182384	40.00 ppm	0.00
47) Acenaphthene-d10	7.642	164	550622	40.00 ppm	0.00
69) Phenanthrene-d10	9.813	188	955625	40.00 ppm	0.00
83) Chrysene-d12	13.991	240	905392	40.00 ppm	0.00
92) Perylene-d12	16.103	264	861303	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.540	152	289158	40.00 ppm	0.00
104) Acenaphthene-d10a	7.642	164	550622	40.00 ppm	0.00
106) Phenanthrene-d10a	9.813	188	955625	40.00 ppm	0.00
110) Chrysene-d12a	13.991	240	905392	40.00 ppm	0.00
112) Naphthalene-d8a	5.609	136	1182384	40.00 ppm	0.00
114) Chrysene-d12b	13.991	240	905392	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
108) o-Terphenyl	10.450	230	294432	25.39 ppm	-0.01
Spiked Amount 50.000			Recovery = 50.78%		
109) 1-Chlorooctadecane	11.664	57	193082	25.84 ppm	0.00
Spiked Amount 50.000			Recovery = 51.68%		

Target Compounds					Qvalue
103) Benzaldehyde	4.213	105	194301	40.67 ppm	89
105) 1,2,4,5-Tetrachloroben...	6.540	216	162939	24.33 ppm	99
107) Atrazine	9.476	215	59482	25.64 ppm	89
111) benzidine	11.985	184	282179	35.49 ppm	99
113) Hydroquinone	6.053	110	217445	26.20 ppm	92

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

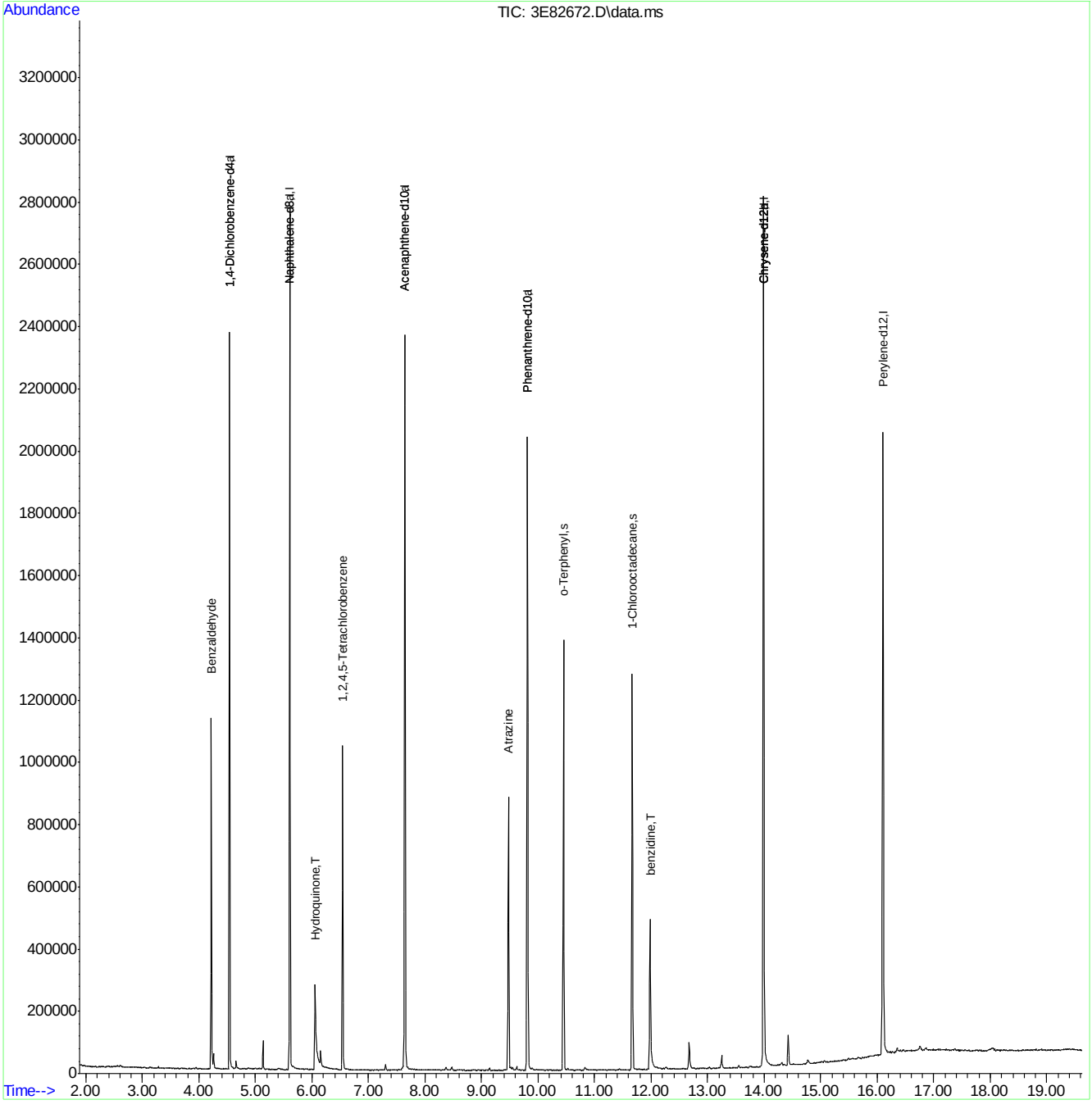
7.6.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82672.D
Acq On : 26 Apr 2016 2:52 pm
Operator : ashleyn
Sample : ic3621-25
Misc : op93161,e3e3621
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 27 08:59:26 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration



M3E3620.M Wed Apr 27 08:59:44 2016 MS3E Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82673.D
Acq On : 26 Apr 2016 3:19 pm
Operator : ashleyn
Sample : ic3621-10
Misc : op93161,e3e3621
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 27 09:02:19 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	300576	40.00 ppm	0.00
24) Naphthalene-d8	5.609	136	1222647	40.00 ppm	0.00
47) Acenaphthene-d10	7.642	164	571099	40.00 ppm	0.00
69) Phenanthrene-d10	9.808	188	991077	40.00 ppm	0.00
83) Chrysene-d12	13.991	240	931960	40.00 ppm	0.00
92) Perylene-d12	16.103	264	892438	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.540	152	300576	40.00 ppm	0.00
104) Acenaphthene-d10a	7.642	164	571099	40.00 ppm	0.00
106) Phenanthrene-d10a	9.808	188	991077	40.00 ppm	0.00
110) Chrysene-d12a	13.991	240	931960	40.00 ppm	0.00
112) Naphthalene-d8a	5.609	136	1222647	40.00 ppm	0.00
114) Chrysene-d12b	13.991	240	931960	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
108) o-Terphenyl	10.450	230	122328	10.17 ppm	-0.01
Spiked Amount 50.000			Recovery	= 20.34%	
109) 1-Chlorooctadecane	11.664	57	78105	10.08 ppm	0.00
Spiked Amount 50.000			Recovery	= 20.16%	

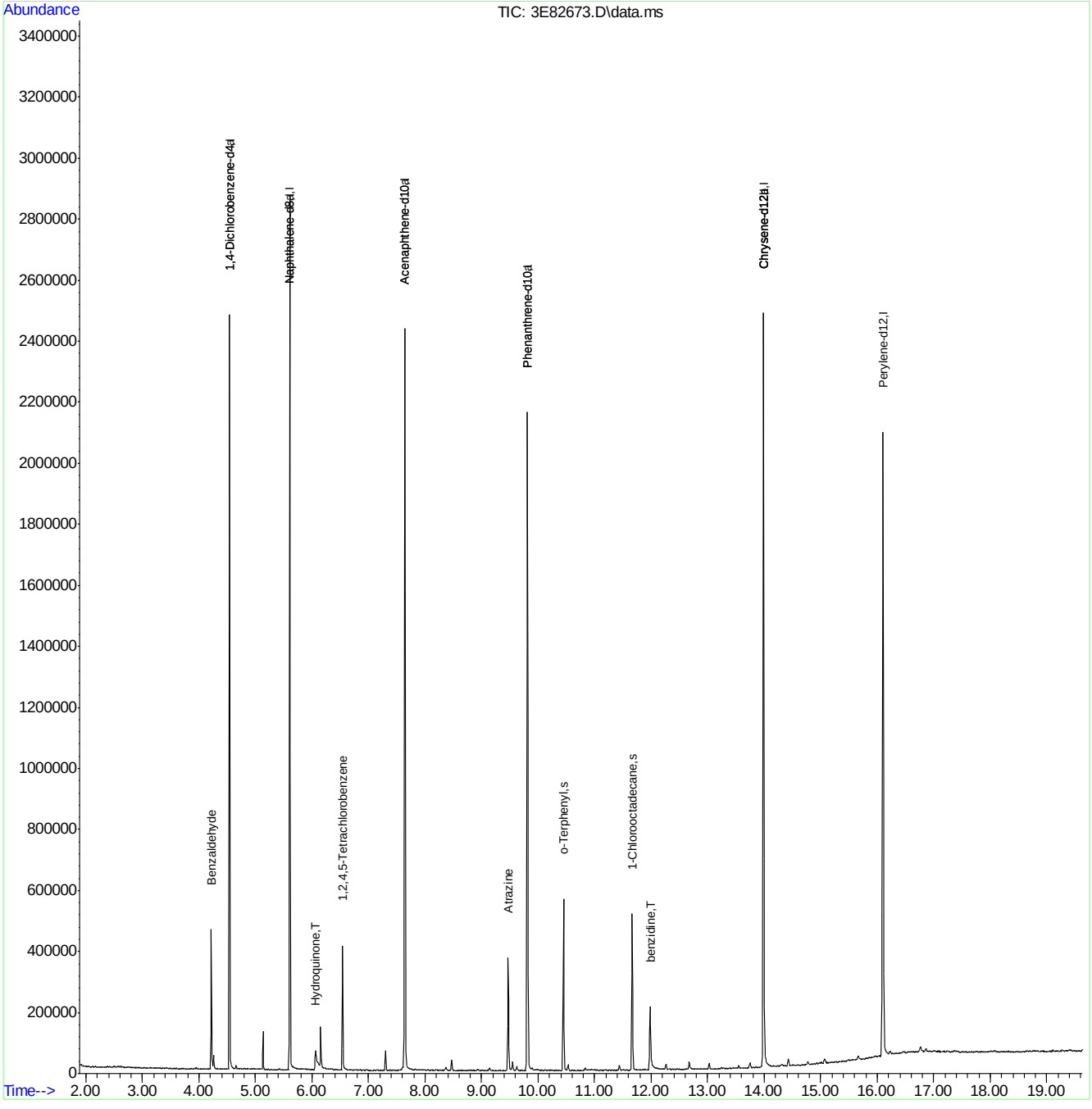
Target Compounds					Qvalue
103) Benzaldehyde	4.213	105	82240	16.56 ppm	89
105) 1,2,4,5-Tetrachloroben...	6.540	216	67129	9.66 ppm	99
107) Atrazine	9.471	215	24114	10.02 ppm	87
111) benzidine	11.985	184	127420	15.57 ppm	98
113) Hydroquinone	6.064	110	77949	9.08 ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82673.D
Acq On : 26 Apr 2016 3:19 pm
Operator : ashleyn
Sample : ic3621-10
Misc : op93161,e3e3621
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 27 09:02:19 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82674.D
Acq On : 26 Apr 2016 3:45 pm
Operator : ashleyn
Sample : ic3621-5
Misc : op93161,e3e3621
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 27 09:03:11 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	301145	40.00 ppm	0.00
24) Naphthalene-d8	5.609	136	1224906	40.00 ppm	0.00
47) Acenaphthene-d10	7.642	164	555436	40.00 ppm	0.00
69) Phenanthrene-d10	9.808	188	963977	40.00 ppm	0.00
83) Chrysene-d12	13.991	240	904104	40.00 ppm	0.00
92) Perylene-d12	16.104	264	874004	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.540	152	301145	40.00 ppm	0.00
104) Acenaphthene-d10a	7.642	164	555436	40.00 ppm	0.00
106) Phenanthrene-d10a	9.808	188	963977	40.00 ppm	0.00
110) Chrysene-d12a	13.991	240	904104	40.00 ppm	0.00
112) Naphthalene-d8a	5.609	136	1224906	40.00 ppm	0.00
114) Chrysene-d12b	13.991	240	904104	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
108) o-Terphenyl	10.450	230	65450	5.59 ppm	-0.01
Spiked Amount 50.000			Recovery	= 11.18%	
109) 1-Chlorooctadecane	11.664	57	42102	5.59 ppm	0.00
Spiked Amount 50.000			Recovery	= 11.18%	

Target Compounds					Qvalue
103) Benzaldehyde	4.213	105	44956	9.03 ppm	90
105) 1,2,4,5-Tetrachloroben...	6.540	216	37172	5.50 ppm	97
107) Atrazine	9.471	215	13195	5.64 ppm	92
111) benzidine	11.985	184	73196	9.22 ppm	99
113) Hydroquinone	6.075	110	33695	3.92 ppm	89

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

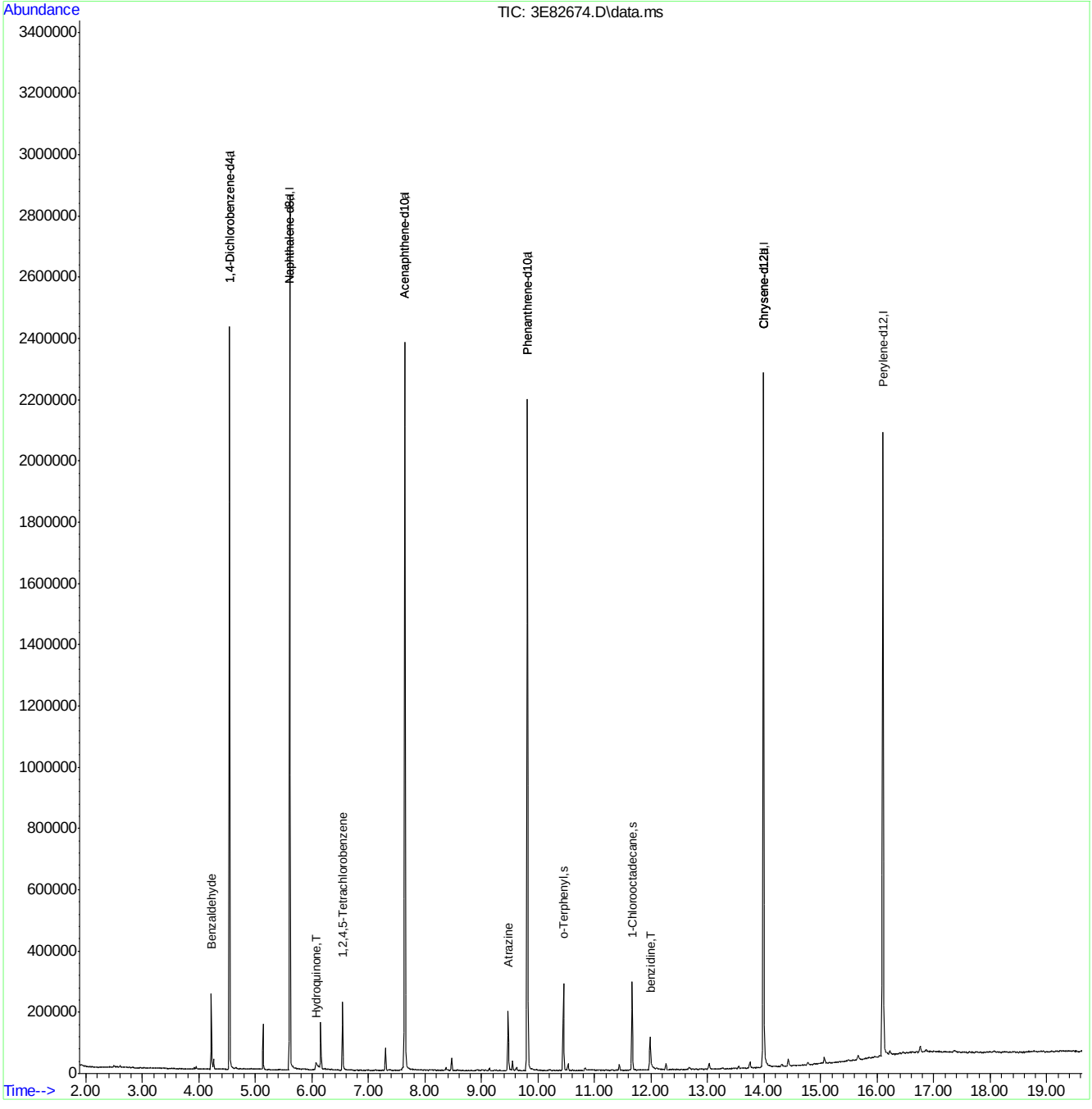
7.6.6 7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82674.D
Acq On : 26 Apr 2016 3:45 pm
Operator : ashleyn
Sample : ic3621-5
Misc : op93161,e3e3621
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 27 09:03:11 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration



M3E3620.M Wed Apr 27 09:03:29 2016 MS3E Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82675.D
Acq On : 26 Apr 2016 4:11 pm
Operator : ashleyn
Sample : ic3621-2
Misc : op93161,e3e3621
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 27 09:03:56 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	331626	40.00 ppm	0.00
24) Naphthalene-d8	5.609	136	1335111	40.00 ppm	0.00
47) Acenaphthene-d10	7.642	164	615642	40.00 ppm	0.00
69) Phenanthrene-d10	9.808	188	1052251	40.00 ppm	0.00
83) Chrysene-d12	13.991	240	996379	40.00 ppm	0.00
92) Perylene-d12	16.104	264	959913	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.540	152	331626	40.00 ppm	0.00
104) Acenaphthene-d10a	7.642	164	615642	40.00 ppm	0.00
106) Phenanthrene-d10a	9.808	188	1052251	40.00 ppm	0.00
110) Chrysene-d12a	13.991	240	996379	40.00 ppm	0.00
112) Naphthalene-d8a	5.609	136	1335111	40.00 ppm	0.00
114) Chrysene-d12b	13.991	240	996379	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
108) o-Terphenyl	10.450	230	29133	2.28 ppm	-0.01
Spiked Amount 50.000			Recovery	= 4.56%	
109) 1-Chlorooctadecane	11.664	57	17607	2.14 ppm	0.00
Spiked Amount 50.000			Recovery	= 4.28%	

Target Compounds						Qvalue
103) Benzaldehyde	4.219	105	19710	3.60 ppm		98
105) 1,2,4,5-Tetrachloroben...	6.540	216	15678	2.09 ppm		94
107) Atrazine	9.466	215	5556	2.18 ppm	#	74
111) benzidine	11.985	184	27592	3.15 ppm		97
113) Hydroquinone	6.096	110	10721	1.14 ppm		96

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

7.6.7

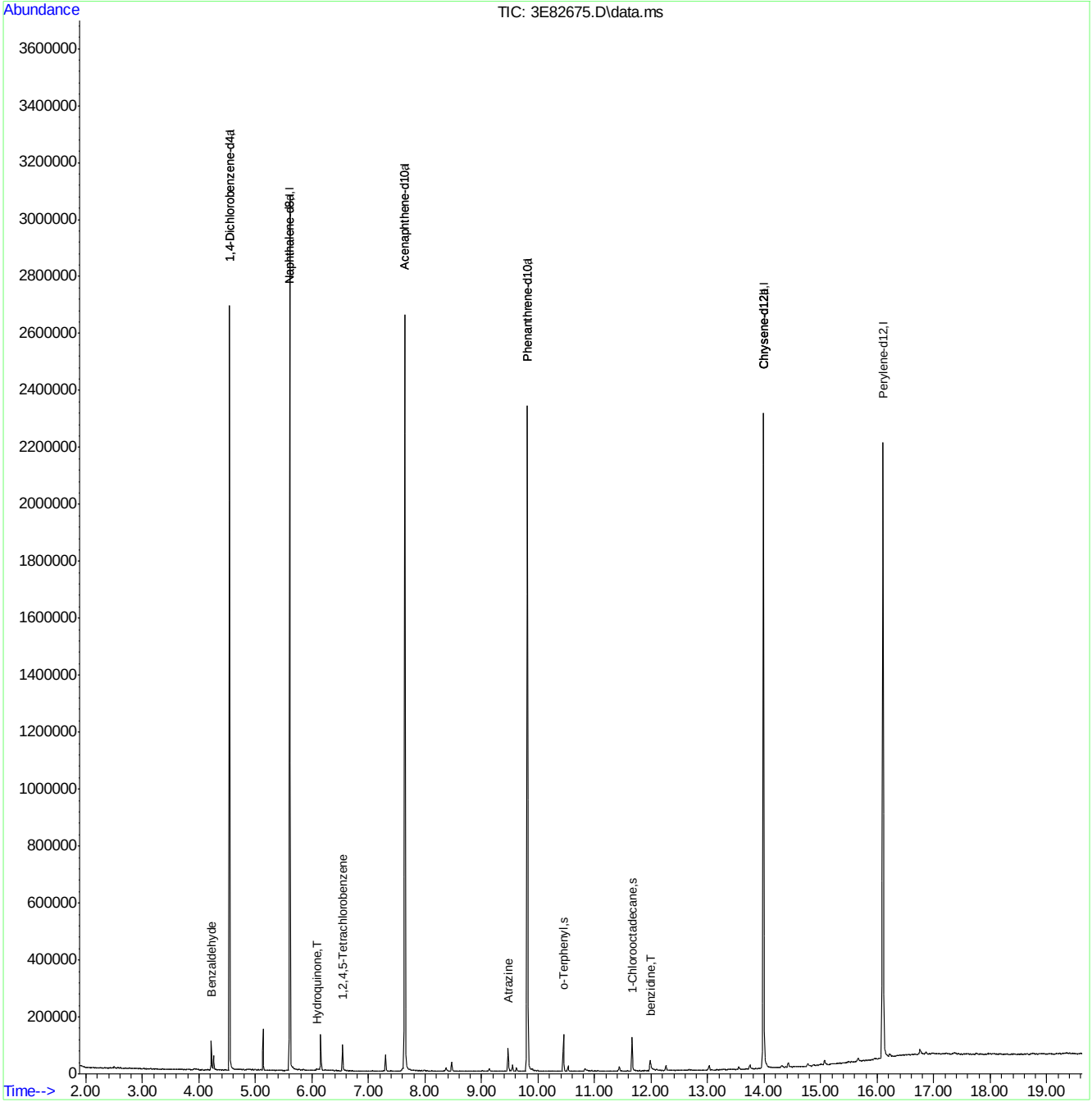
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82675.D
Acq On : 26 Apr 2016 4:11 pm
Operator : ashleyn
Sample : ic3621-2
Misc : op93161,e3e3621
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 27 09:03:56 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration



M3E3620.M Wed Apr 27 09:04:27 2016 MS3E Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82676.D
Acq On : 26 Apr 2016 4:37 pm
Operator : ashleyn
Sample : ic3621-1
Misc : op93161,e3e3621
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 27 09:05:00 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	312469	40.00	ppm	0.00
24) Naphthalene-d8	5.610	136	1296183	40.00	ppm	0.00
47) Acenaphthene-d10	7.642	164	591540	40.00	ppm	0.00
69) Phenanthrene-d10	9.808	188	1016668	40.00	ppm	0.00
83) Chrysene-d12	13.991	240	954506	40.00	ppm	0.00
92) Perylene-d12	16.104	264	923822	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.540	152	312469	40.00	ppm	0.00
104) Acenaphthene-d10a	7.642	164	591540	40.00	ppm	0.00
106) Phenanthrene-d10a	9.808	188	1016668	40.00	ppm	0.00
110) Chrysene-d12a	13.991	240	954506	40.00	ppm	0.00
112) Naphthalene-d8a	5.610	136	1296183	40.00	ppm	0.00
114) Chrysene-d12b	13.991	240	954506	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.450	230	14269	1.16	ppm	-0.01
Spiked Amount 50.000			Recovery	=	2.32%	
109) 1-Chlorooctadecane	11.664	57	8949	1.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.26%	

Target Compounds						Qvalue
103) Benzaldehyde	4.219	105	9583	1.86	ppm	94
105) 1,2,4,5-Tetrachloroben...	6.540	216	7654	1.06	ppm	96
107) Atrazine	9.471	215	2648	1.07	ppm	94
111) benzidine	11.990	184	10184	1.22	ppm	92
113) Hydroquinone	6.096	110	3163	0.35	ppm	90

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

7.6.8

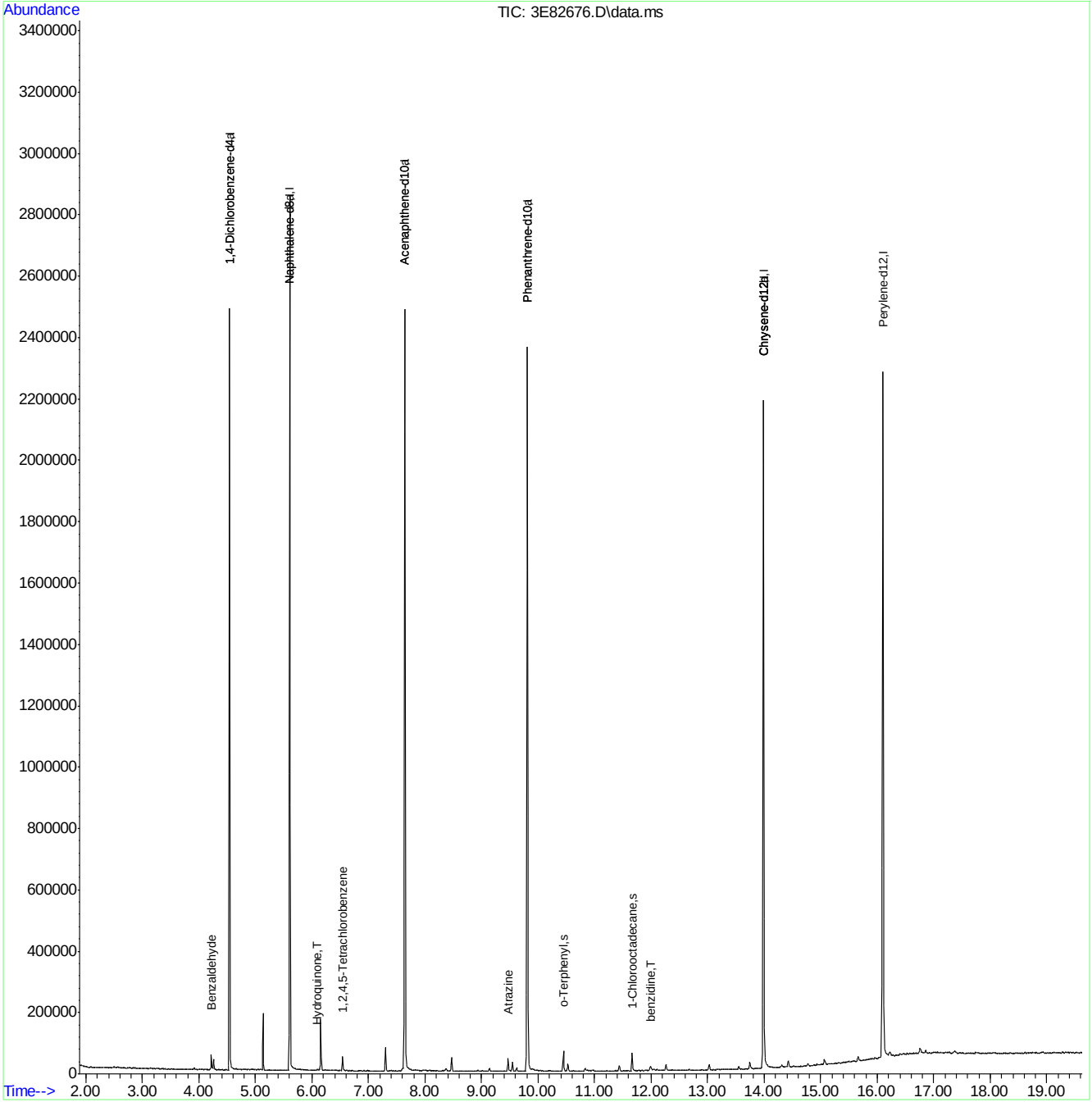
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82676.D
Acq On : 26 Apr 2016 4:37 pm
Operator : ashleyn
Sample : ic3621-1
Misc : op93161,e3e3621
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 27 09:05:00 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 08:57:10 2016
QLast Update : Wed Apr 27 08:57:10 2016
Response via : Initial Calibration



M3E3620.M Wed Apr 27 09:05:19 2016 MS3E Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82680a.D
Acq On : 26 Apr 2016 6:22 pm
Operator : ashleyn
Sample : icv3621-50
Misc : op93161,e3e3621
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 12:20:52 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 09:55:50 2016
QLast Update : Wed Apr 27 09:55:50 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	304548	40.00 ppm	0.00
24) Naphthalene-d8	5.609	136	1158365	40.00 ppm	0.00
47) Acenaphthene-d10	7.642	164	563604	40.00 ppm	0.00
69) Phenanthrene-d10	9.808	188	793159	40.00 ppm	-0.01
83) Chrysene-d12	13.991	240	660980	40.00 ppm	-0.02
92) Perylene-d12	16.103	264	462613	40.00 ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.540	152	304548	40.00 ppm	0.00
104) Acenaphthene-d10a	7.642	164	563604	40.00 ppm	0.00
106) Phenanthrene-d10a	9.808	188	793159	40.00 ppm	0.00
110) Chrysene-d12a	13.991	240	660980	40.00 ppm	0.00
112) Naphthalene-d8a	5.609	136	1158365	40.00 ppm	0.00
114) Chrysene-d12b	13.991	240	660980	40.00 ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
109) 1-Chlorooctadecane	0.000	57	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
105) 1,2,4,5-Tetrachloroben...	6.540	216	348310	49.91 ppm	99

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

7.6.9

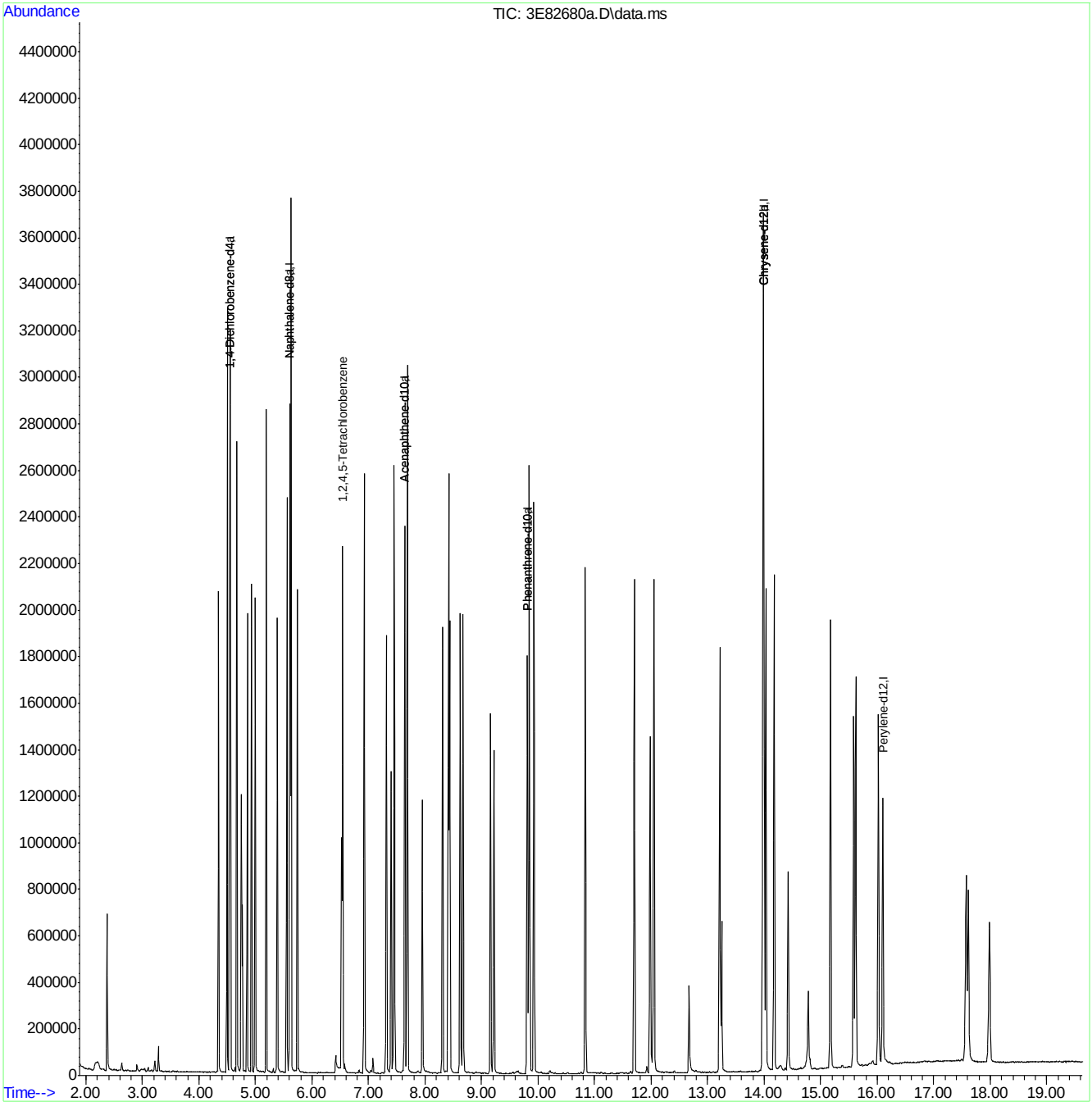
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82680a.D
Acq On : 26 Apr 2016 6:22 pm
Operator : ashleyn
Sample : icv3621-50
Misc : op93161,e3e3621
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 12:20:52 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 09:55:50 2016
QLast Update : Wed Apr 27 09:55:50 2016
Response via : Initial Calibration



M3E3620.M Wed Apr 27 12:20:56 2016 MS3E Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82681a.D
Acq On : 26 Apr 2016 6:48 pm
Operator : ashleyn
Sample : icv3621-50
Misc : op93161,e3e3621
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 28 11:07:37 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:56:37 2016
QLast Update : Thu Apr 28 10:56:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	299771	40.00 ppm	0.00
24) Naphthalene-d8	5.604	136	1144167	40.00 ppm	0.00
47) Acenaphthene-d10	7.642	164	561548	40.00 ppm	0.00
69) Phenanthrene-d10	9.808	188	813751	40.00 ppm	0.00
83) Chrysene-d12	13.985	240	661947	40.00 ppm	0.00
92) Perylene-d12	16.098	264	508019	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.540	152	299771	40.00 ppm	0.00
104) Acenaphthene-d10a	7.642	164	561548	40.00 ppm	0.00
106) Phenanthrene-d10a	9.808	188	813751	40.00 ppm	0.00
110) Chrysene-d12a	13.985	240	661947	40.00 ppm	0.00
112) Naphthalene-d8a	5.604	136	1144167	40.00 ppm	0.00
114) Chrysene-d12b	13.985	240	661947	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
109) 1-Chlorooctadecane	0.000	57	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

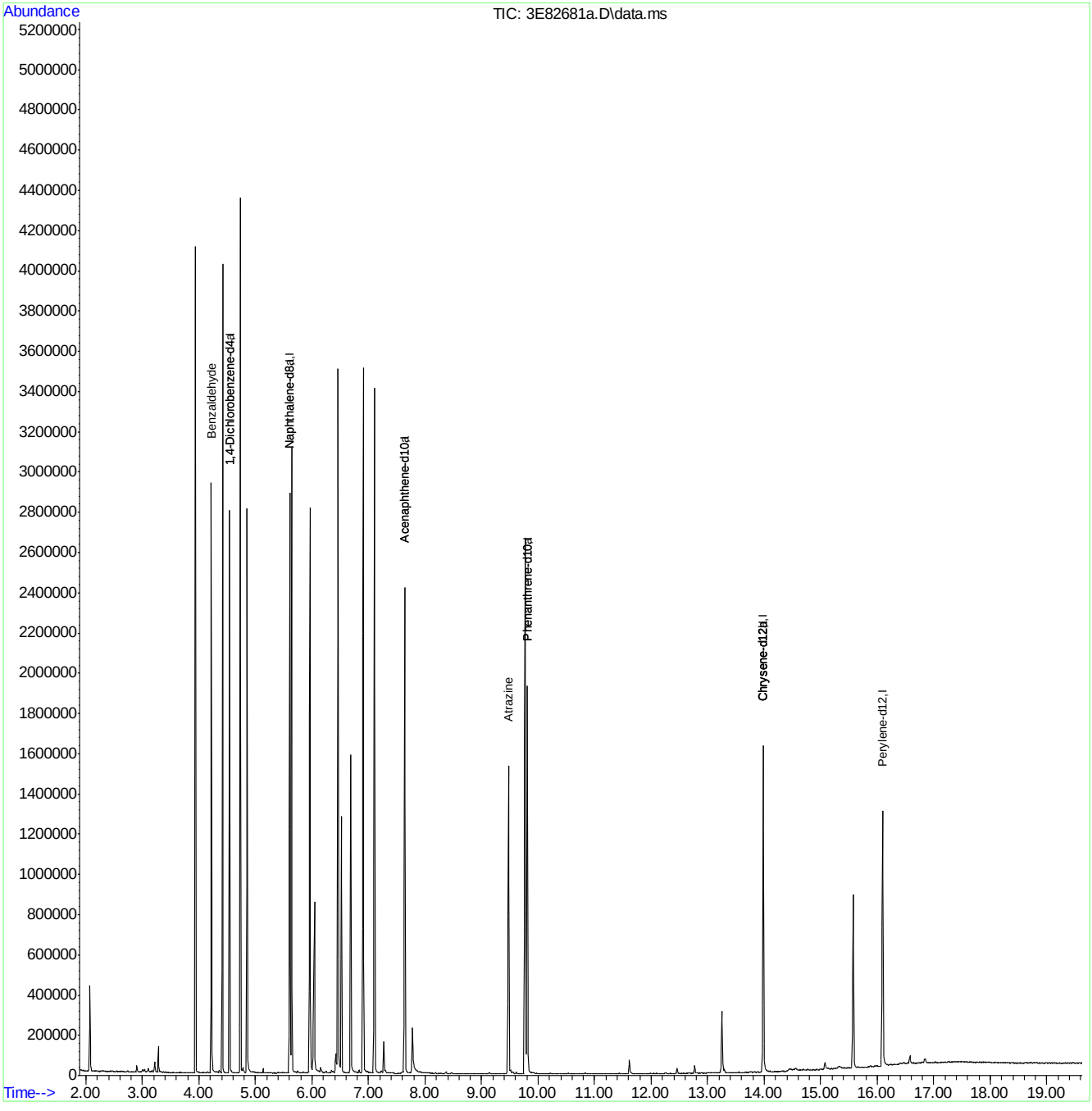
Target Compounds					Qvalue
103) Benzaldehyde	4.219	105	427003	52.55 ppm	96
107) Atrazine	9.476	215	102078	49.29 ppm	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82681a.D
Acq On : 26 Apr 2016 6:48 pm
Operator : ashleyn
Sample : icv3621-50
Misc : op93161,e3e3621
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 28 11:07:37 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:56:37 2016
QLast Update : Thu Apr 28 10:56:37 2016
Response via : Initial Calibration



M3E3623.M Thu Apr 28 11:11:41 2016 MS3E

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82683.D
Acq On : 26 Apr 2016 7:40 pm
Operator : ashleyn
Sample : icv3621-50
Misc : op93161,e3e3621
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 27 10:28:03 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 09:55:50 2016
QLast Update : Wed Apr 27 09:55:50 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.540	152	253204	40.00	ppm	0.00
24) Naphthalene-d8	5.604	136	1011973	40.00	ppm	-0.01
47) Acenaphthene-d10	7.642	164	522155	40.00	ppm	0.00
69) Phenanthrene-d10	9.808	188	796180	40.00	ppm	-0.01
83) Chrysene-d12	13.986	240	700682	40.00	ppm	-0.02
92) Perylene-d12	16.098	264	645641	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.540	152	253204	40.00	ppm	0.00
104) Acenaphthene-d10a	7.642	164	522155	40.00	ppm	0.00
106) Phenanthrene-d10a	9.808	188	796180	40.00	ppm	0.00
110) Chrysene-d12a	13.986	240	700682	40.00	ppm	0.00
112) Naphthalene-d8a	5.604	136	1011973	40.00	ppm	0.00
114) Chrysene-d12b	13.986	240	700682	40.00	ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
113) Hydroquinone	6.053	110	402910	57.91	ppm	99

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

7.6.11

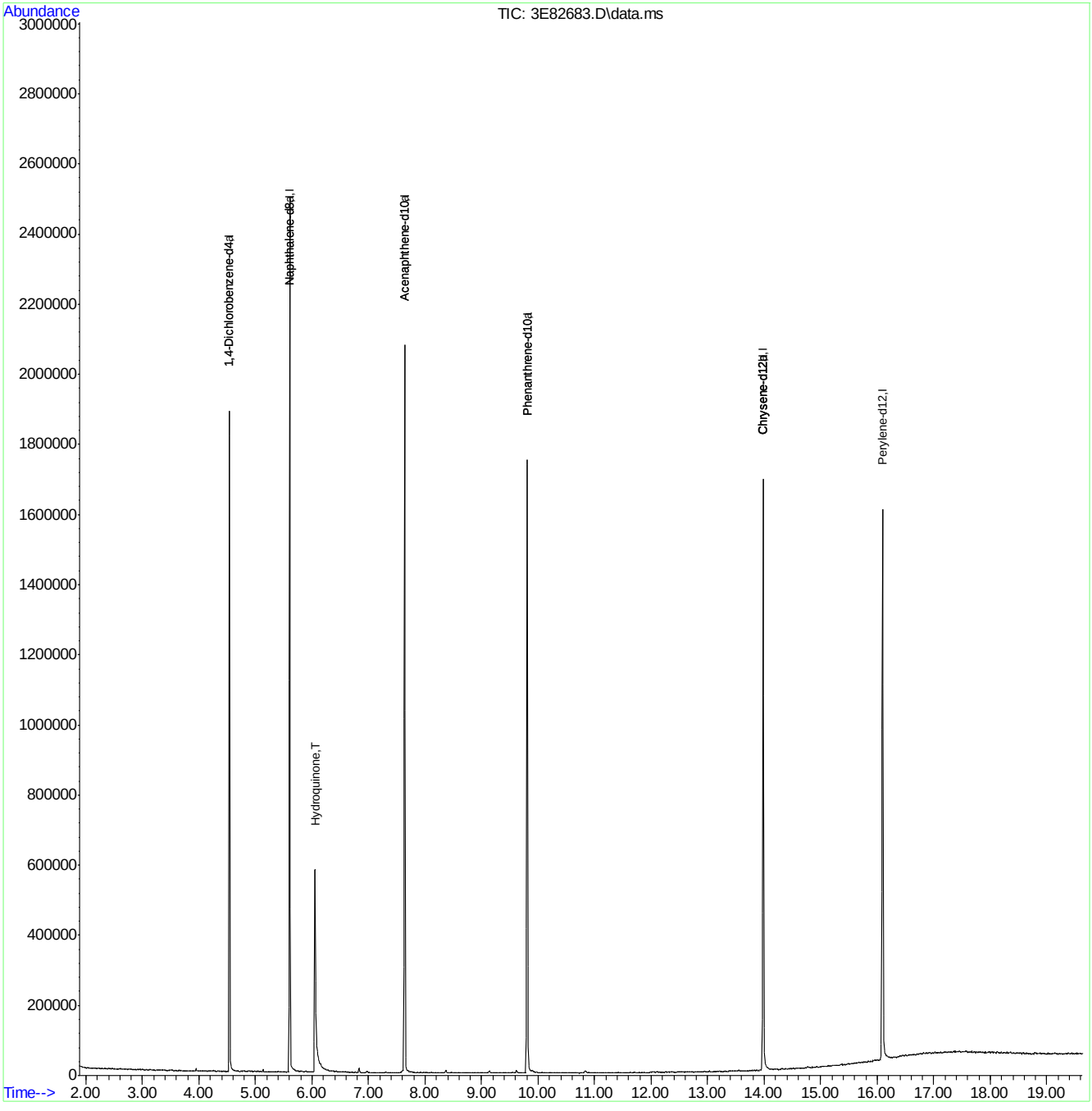
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3621\
Data File : 3E82683.D
Acq On : 26 Apr 2016 7:40 pm
Operator : ashleyn
Sample : icv3621-50
Misc : op93161,e3e3621
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 27 10:28:03 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 09:55:50 2016
QLast Update : Wed Apr 27 09:55:50 2016
Response via : Initial Calibration



M3E3620.M Wed Apr 27 10:28:07 2016 MS3E

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3622\
Data File : 3E82685a.D
Acq On : 27 Apr 2016 11:46 am
Operator : ashleyn
Sample : icv3621-50
Misc : op93161,e3e3622
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 12:23:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 12:17:28 2016
QLast Update : Wed Apr 27 12:17:28 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	256439	40.00 ppm	0.00
24) Naphthalene-d8	5.604	136	1011433	40.00 ppm	-0.01
47) Acenaphthene-d10	7.637	164	544154	40.00 ppm	-0.01
69) Phenanthrene-d10	9.803	188	870586	40.00 ppm	-0.02
83) Chrysene-d12	13.985	240	834701	40.00 ppm	-0.02
92) Perylene-d12	16.098	264	794617	40.00 ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.534	152	256439	40.00 ppm	0.00
104) Acenaphthene-d10a	7.637	164	544154	40.00 ppm	0.00
106) Phenanthrene-d10a	9.803	188	870586	40.00 ppm	0.00
110) Chrysene-d12a	13.985	240	834701	40.00 ppm	0.00
112) Naphthalene-d8a	5.604	136	1011433	40.00 ppm	0.00
114) Chrysene-d12b	13.985	240	834701	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
109) 1-Chlorooctadecane	0.000	57	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
111) benzidine	11.980	184	860560	83.76 ppm	99

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

7.6.12

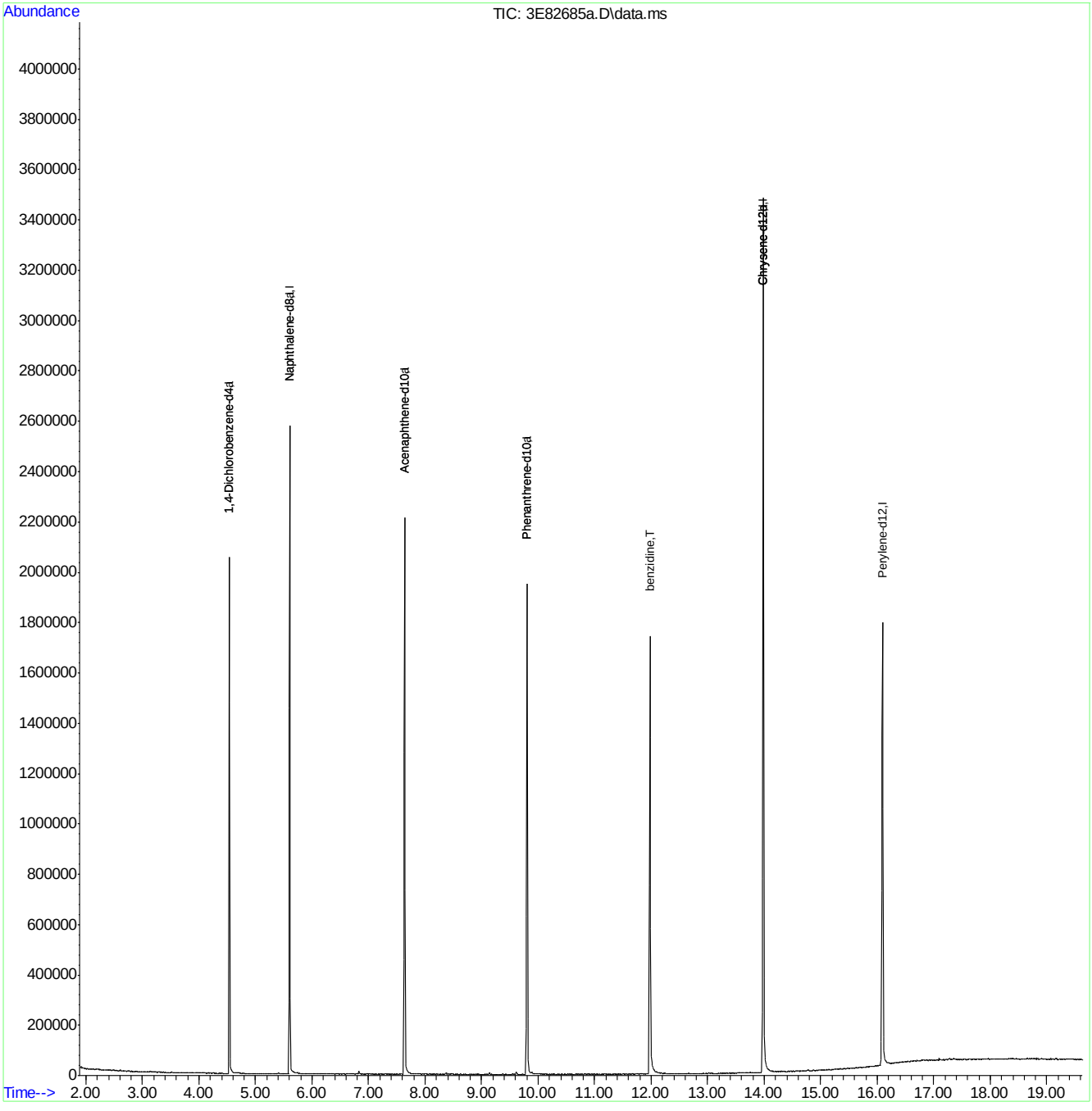
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3622\
Data File : 3E82685a.D
Acq On : 27 Apr 2016 11:46 am
Operator : ashleyn
Sample : icv3621-50
Misc : op93161,e3e3622
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 12:23:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3620.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Apr 27 12:17:28 2016
QLast Update : Wed Apr 27 12:17:28 2016
Response via : Initial Calibration



M3E3620.M Wed Apr 27 12:23:19 2016 MS3E Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82702.D
Acq On : 27 Apr 2016 4:10 pm
Operator : ashleyn
Sample : ic3623-2
Misc : op93161,e3e3623
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:27:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:26:28 2016
QLast Update : Thu Apr 28 09:26:28 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	206049	40.00	ppm	0.00
24) Naphthalene-d8	5.599	136	821359	40.00	ppm	0.00
47) Acenaphthene-d10	7.631	164	482237	40.00	ppm	0.00
69) Phenanthrene-d10	9.797	188	822977	40.00	ppm	0.00
83) Chrysene-d12	13.980	240	884956	40.00	ppm	0.00
92) Perylene-d12	16.093	264	857499	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	206049	40.00	ppm	0.00
104) Acenaphthene-d10a	7.631	164	482237	40.00	ppm	0.00
106) Phenanthrene-d10a	9.797	188	822977	40.00	ppm	0.00
110) Chrysene-d12a	13.980	240	884956	40.00	ppm	0.00
112) Naphthalene-d8a	5.599	136	821359	40.00	ppm	0.00
114) Chrysene-d12b	13.980	240	884956	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.555	112	12451	1.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.90%	
8) Phenol-d5	4.288	99	16577	1.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.96%	
25) Nitrobenzene-d5	4.968	82	15328	1.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.72%	
51) 2-Fluorobiphenyl	6.775	172	32857	2.10	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.20%	
73) 2,4,6-Tribromophenol	8.765	330	5759	1.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.96%	
85) Terphenyl-d14	12.359	244	38311	2.10	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.20%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds							Qvalue
2) 1,4-Dioxane	2.036	88	4018	2.27	ppm		84
3) Pyridine	2.395	79	8899	1.62	ppm		76
4) N-Nitrosodimethylamine	2.347	74	5793	1.89	ppm		98
6) Indene	4.727	116	25007	2.04	ppm		97
7) Cumene	3.925	105	37323	2.11	ppm		98
9) Phenol	4.299	94	18280	2.01	ppm		88
10) Aniline	4.294	93	20793	1.98	ppm		95
11) bis(2-Chloroethyl)ether	4.342	93	13366	2.23	ppm		90
12) 2-Chlorophenol	4.385	128	15653	2.12	ppm		92
13) Decane	4.406	43	15954	2.05	ppm		95
14) 1,3-Dichlorobenzene	4.486	146	16317	2.03	ppm		95
15) 1,4-Dichlorobenzene	4.545	146	18272	2.21	ppm		99
16) Benzyl alcohol	4.647	108	9099	1.97	ppm		92
17) 1,2-Dichlorobenzene	4.657	146	16032	2.10	ppm		100
18) Acetophenone	4.845	105	21144	2.10	ppm		93
19) 2-Methylphenol	4.743	108	13485	2.17	ppm		94
20) 2,2'-oxybis(1-Chloropr...	4.743	121	5290	2.11	ppm	#	89
21) 3&4-Methylphenol	4.866	108	13346	2.02	ppm		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82702.D
Acq On : 27 Apr 2016 4:10 pm
Operator : ashleyn
Sample : ic3623-2
Misc : op93161,e3e3623
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:27:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:26:28 2016
QLast Update : Thu Apr 28 09:26:28 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.845	70	10818	2.01	ppm		87
23) Hexachloroethane	4.925	201	5855	2.23	ppm		89
26) Nitrobenzene	4.984	77	16095	1.90	ppm		99
27) Quinoline	5.957	129	30197	2.16	ppm		96
28) Isophorone	5.181	82	27382	1.99	ppm		94
29) 2-Nitrophenol	5.256	139	8299	1.89	ppm		89
30) 2,4-Dimethylphenol	5.305	107	13806	1.83	ppm		96
31) Benzoic acid	5.395	105	7449	1.35	ppm		92
32) bis(2-Chloroethoxy)met...	5.379	93	15422	2.08	ppm		96
33) 2,4-Dichlorophenol	5.492	162	11616	1.95	ppm		95
34) 2,6-Dichlorophenol	5.690	162	12183	2.09	ppm		87
35) 1,3,5-Trichlorobenzene	5.262	180	14632	2.12	ppm		96
36) 1,2,4-Trichlorobenzene	5.545	180	13844	2.14	ppm		99
37) 1,2,3-Trichlorobenzene	5.759	180	13970	2.28	ppm		99
38) Naphthalene	5.620	128	47035	2.12	ppm		77
39) 4-Chloroaniline	5.684	127	19005	2.06	ppm		88
40) 2,3-Dichloroaniline	6.674	161	15237	2.13	ppm		95
41) Caprolactam	6.021	55	6224	2.05	ppm		92
42) Hexachlorobutadiene	5.732	225	8048	2.10	ppm		98
43) 4-Chloro-3-methylphenol	6.203	107	14172	2.17	ppm		95
44) 2-Methylnaphthalene	6.342	141	27103	2.13	ppm		98
45) 1-Methylnaphthalene	6.449	141	28290	2.15	ppm		98
46) Dimethylnaphthalene	7.091	156	26305	2.06	ppm		88
48) Hexachlorocyclopentadiene	6.513	237	8861	2.45	ppm		88
49) 2,4,6-Trichlorophenol	6.684	196	9249	2.11	ppm		99
50) 2,4,5-Trichlorophenol	6.743	196	10081	2.13	ppm		90
52) 2-Chloronaphthalene	6.914	162	28585	2.11	ppm		98
53) Biphenyl	6.893	154	37750	2.08	ppm		96
54) 2-Nitroaniline	7.059	65	9298	1.83	ppm		83
55) Dimethylphthalate	7.305	163	33317	2.11	ppm		99
56) Acenaphthylene	7.444	152	47371	2.11	ppm		95
57) 2,6-Dinitrotoluene	7.385	165	7057	1.95	ppm		94
58) 3-Nitroaniline	7.604	138	7759	1.94	ppm		99
59) Acenaphthene	7.674	153	30805	2.07	ppm		96
60) 2,4-Dinitrophenol	7.797	184	2116	1.32	ppm	#	22
61) 4-Nitrophenol	7.941	109	3636	1.41	ppm	#	15
62) Dibenzofuran	7.920	168	40844	2.10	ppm		85
63) 2,4-Dinitrotoluene	7.941	165	9346	1.86	ppm		70
64) 2,3,4,6-Tetrachlorophenol	8.113	232	7374	2.02	ppm		85
65) Diethylphthalate	8.294	149	33497	1.99	ppm		98
66) Fluorene	8.401	166	34647	2.12	ppm		97
67) 4-Chlorophenyl-phenyle...	8.428	204	16332	2.21	ppm		88
68) 4-Nitroaniline	8.466	138	7134	1.81	ppm		87
70) 4,6-Dinitro-2-methylph...	8.530	198	2737	1.00	ppm		89
71) n-Nitrosodiphenylamine	8.610	169	22797	1.98	ppm		98
72) 1,2-Diphenylhydrazine	8.658	77	33297	1.92	ppm		93
74) 4-Bromophenyl-phenylether	9.150	248	10156	2.14	ppm		91
75) Hexachlorobenzene	9.204	284	12344	2.18	ppm		96
76) Pentachlorophenol	9.541	266	9074	3.15	ppm		94
77) Phenanthrene	9.829	178	50812	2.18	ppm		97

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82702.D
Acq On : 27 Apr 2016 4:10 pm
Operator : ashleyn
Sample : ic3623-2
Misc : op93161,e3e3623
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:27:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:26:28 2016
QLast Update : Thu Apr 28 09:26:28 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	9.910	178	48842	2.06 ppm	96
79) Carbazole	10.198	167	45178	2.11 ppm	98
80) Di-n-butylphthalate	10.824	149	51909	1.82 ppm	97
81) Fluoranthene	11.691	202	51763	2.00 ppm	96
82) Octadecane	9.760	57	17739	1.78 ppm	98
84) Pyrene	12.038	202	54010	2.05 ppm	99
86) Butylbenzylphthalate	13.204	149	24160	1.88 ppm	92
87) Butyl stearate	13.381	56	12317	1.79 ppm	85
88) Benzo[a]anthracene	13.964	228	55117	2.19 ppm	96
89) 3,3'-Dichlorobenzidine	13.980	252	19517	2.01 ppm	91
90) Chrysene	14.012	228	51714	2.21 ppm	97
91) bis(2-Ethylhexyl)phtha...	14.167	149	31202	1.88 ppm	92
93) Di-n-octylphthalate	15.162	149	53008	1.60 ppm	93
94) Benzo[b]fluoranthene	15.563	252	55973	1.92 ppm	97
95) Benzo[k]fluoranthene	15.606	252	54554	2.13 ppm	95
96) Benzo[a]pyrene	16.007	252	47383	1.95 ppm	97
97) Indeno[1,2,3-cd]pyrene	17.548	276	45763	1.99 ppm	97
98) Dibenz(a,h)acridine	17.227	279	42463	1.93 ppm	91
99) Dibenz[a,h]anthracene	17.590	278	45682	2.01 ppm	99
100) 7,12-Dimethylbenz(a)an...	15.563	256	24221	1.83 ppm	98
101) Benzo[g,h,i]perylene	17.954	276	45671	2.08 ppm	98

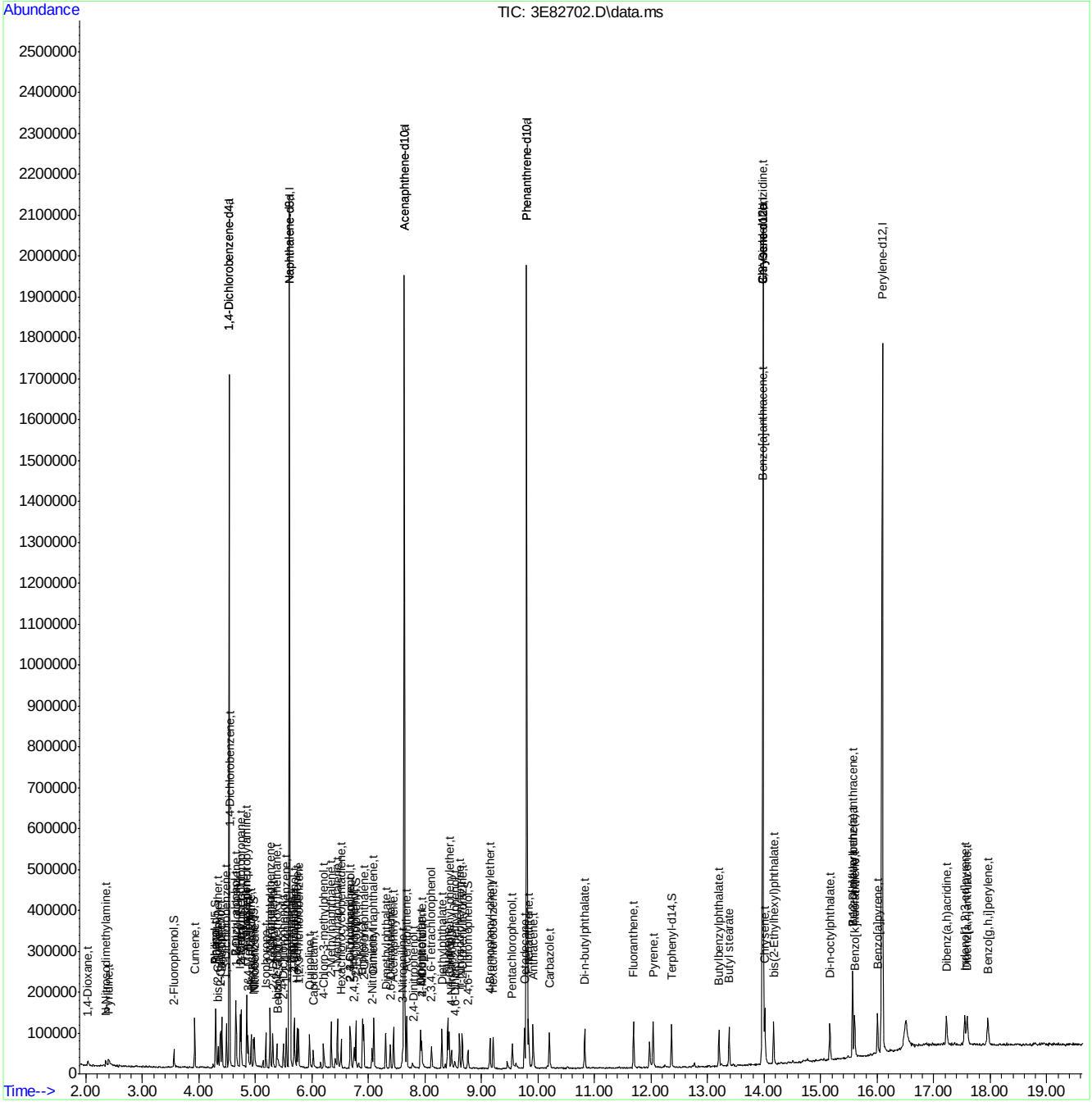
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82702.D
Acq On : 27 Apr 2016 4:10 pm
Operator : ashleyn
Sample : ic3623-2
Misc : op93161,e3e3623
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:27:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:26:28 2016
QLast Update : Thu Apr 28 09:26:28 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82696.D
Acq On : 27 Apr 2016 4:35 pm
Operator : ashleyn
Sample : ic3623-100
Misc : op93161,e3e3623
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:46:17 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:56:37 2016
QLast Update : Thu Apr 28 10:56:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	183913	40.00	ppm	0.00
24) Naphthalene-d8	5.604	136	652396	40.00	ppm	0.00
47) Acenaphthene-d10	7.636	164	346483	40.00	ppm	0.00
69) Phenanthrene-d10	9.803	188	549968	40.00	ppm	0.00
83) Chrysene-d12	13.991	240	600610	40.00	ppm	0.00
92) Perylene-d12	16.093	264	466917	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	183913	40.00	ppm	0.00
104) Acenaphthene-d10a	7.636	164	346483	40.00	ppm	0.00
106) Phenanthrene-d10a	9.803	188	549968	40.00	ppm	0.00
110) Chrysene-d12a	13.991	240	600610	40.00	ppm	0.00
112) Naphthalene-d8a	5.604	136	652396	40.00	ppm	0.00
114) Chrysene-d12b	13.991	240	600610	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.550	112	590959	104.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	209.62%	
8) Phenol-d5	4.294	99	810998	110.55	ppm	0.00
Spiked Amount 50.000			Recovery	=	221.10%	
25) Nitrobenzene-d5	4.978	82	662984	101.62	ppm	0.00
Spiked Amount 50.000			Recovery	=	203.24%	
51) 2-Fluorobiphenyl	6.781	172	1131616	98.48	ppm	0.00
Spiked Amount 50.000			Recovery	=	196.96%	
73) 2,4,6-Tribromophenol	8.770	330	193052	99.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	199.06%	
85) Terphenyl-d14	12.370	244	1237037	98.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	196.22%	
108) o-Terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.026	88	154905	92.40	ppm	98
3) Pyridine	2.363	79	496873	104.24	ppm	98
4) N-Nitrosodimethylamine	2.336	74	282917	104.30	ppm	100
6) Indene	4.727	116	1092355	99.57	ppm	98
7) Cumene	3.930	105	1626883	101.39	ppm	96
9) Phenol	4.304	94	858452	106.76	ppm	86
10) Aniline	4.294	93	957929	102.58	ppm	84
11) bis(2-Chloroethyl)ether	4.347	93	537362	97.44	ppm	99
12) 2-Chlorophenol	4.390	128	674183	101.17	ppm	94
13) Decane	4.411	43	719354	101.98	ppm	98
14) 1,3-Dichlorobenzene	4.491	146	723953	99.35	ppm	100
15) 1,4-Dichlorobenzene	4.545	146	735548	96.18	ppm	99
16) Benzyl alcohol	4.652	108	436366	107.42	ppm	97
17) 1,2-Dichlorobenzene	4.663	146	685027	99.46	ppm	97
18) Acetophenone	4.855	105	885618	97.07	ppm	99
19) 2-Methylphenol	4.748	108	552605	98.05	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.748	121	222375	98.41	ppm	90
21) 3&4-Methylphenol	4.871	108	596732	100.75	ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82696.D
Acq On : 27 Apr 2016 4:35 pm
Operator : ashleyn
Sample : ic3623-100
Misc : op93161,e3e3623
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:46:17 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:56:37 2016
QLast Update : Thu Apr 28 10:56:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.860	70	484634	100.34	ppm		99
23) Hexachloroethane	4.925	201	226660	92.69	ppm		96
26) Nitrobenzene	4.994	77	700416	103.95	ppm		99
27) Quinoline	5.973	129	1075054	94.75	ppm		98
28) Isophorone	5.197	82	1111342	101.62	ppm		99
29) 2-Nitrophenol	5.262	139	370113	107.33	ppm		93
30) 2,4-Dimethylphenol	5.310	107	609653	102.72	ppm		96
31) Benzoic acid	5.470	105	476169	108.90	ppm		99
32) bis(2-Chloroethoxy)met...	5.385	93	603217	101.32	ppm		99
33) 2,4-Dichlorophenol	5.486	162	476446	102.94	ppm		97
34) 2,6-Dichlorophenol	5.695	162	465847	98.54	ppm		99
35) 1,3,5-Trichlorobenzene	5.267	180	561344	100.34	ppm		99
36) 1,2,4-Trichlorobenzene	5.550	180	512632	97.08	ppm		98
37) 1,2,3-Trichlorobenzene	5.764	180	467504	91.94	ppm		96
38) Naphthalene	5.625	128	1786578	99.05	ppm		99
39) 4-Chloroaniline	5.690	127	755025	102.75	ppm		98
40) 2,3-Dichloroaniline	6.679	161	551383	94.52	ppm		98
41) Caprolactam	6.096	55	234713	95.02	ppm		97
42) Hexachlorobutadiene	5.738	225	286614	90.57	ppm		99
43) 4-Chloro-3-methylphenol	6.219	107	517656	98.07	ppm		98
44) 2-Methylnaphthalene	6.347	141	1005481	98.21	ppm		97
45) 1-Methylnaphthalene	6.460	141	1026593	96.12	ppm		97
46) Dimethylnaphthalene	7.102	156	973425	94.18	ppm		98
48) Hexachlorocyclopentadiene	6.519	237	614451	199.63	ppm		98
49) 2,4,6-Trichlorophenol	6.690	196	320394	101.98	ppm		98
50) 2,4,5-Trichlorophenol	6.743	196	343084	98.06	ppm		99
52) 2-Chloronaphthalene	6.925	162	955515	97.29	ppm		97
53) Biphenyl	6.904	154	1333394	101.81	ppm		99
54) 2-Nitroaniline	7.075	65	375106	103.07	ppm		99
55) Dimethylphthalate	7.316	163	1124129	97.71	ppm		100
56) Acenaphthylene	7.449	152	1605256	97.93	ppm		98
57) 2,6-Dinitrotoluene	7.401	165	260216	101.03	ppm		93
58) 3-Nitroaniline	7.626	138	293504	102.32	ppm		99
59) Acenaphthene	7.685	153	1075250	98.78	ppm		95
60) 2,4-Dinitrophenol	7.781	184	299079	198.46	ppm		97
61) 4-Nitrophenol	7.925	109	197174	106.43	ppm	#	12
62) Dibenzofuran	7.925	168	1397480	97.53	ppm		98
63) 2,4-Dinitrotoluene	7.957	165	359514	102.04	ppm		78
64) 2,3,4,6-Tetrachlorophenol	8.118	232	261916	100.98	ppm		99
65) Diethylphthalate	8.310	149	1210584	100.18	ppm		99
66) Fluorene	8.412	166	1186949	98.95	ppm		99
67) 4-Chlorophenyl-phenyle...	8.433	204	506217	92.55	ppm		100
68) 4-Nitroaniline	8.503	138	278854	101.13	ppm		96
70) 4,6-Dinitro-2-methylph...	8.546	198	212566	99.94	ppm		95
71) n-Nitrosodiphenylamine	8.626	169	791021	103.55	ppm		98
72) 1,2-Diphenylhydrazine	8.669	77	1214768	106.75	ppm		97
74) 4-Bromophenyl-phenylether	9.155	248	313818	95.98	ppm		97
75) Hexachlorobenzene	9.220	284	363140	92.61	ppm		98
76) Pentachlorophenol	9.551	266	437943	234.63	ppm		98
77) Phenanthrene	9.845	178	1574416	98.67	ppm		100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82696.D
Acq On : 27 Apr 2016 4:35 pm
Operator : ashleyn
Sample : ic3623-100
Misc : op93161,e3e3623
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:46:17 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:56:37 2016
QLast Update : Thu Apr 28 10:56:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	9.926	178	1599404	100.06 ppm	99
79) Carbazole	10.209	167	1463939	101.21 ppm	100
80) Di-n-butylphthalate	10.835	149	2032734	108.82 ppm	99
81) Fluoranthene	11.701	202	1788366	103.34 ppm	98
82) Octadecane	9.765	57	728326	112.10 ppm	98
84) Pyrene	12.049	202	1794331	99.81 ppm	99
86) Butylbenzylphthalate	13.210	149	928919	108.34 ppm	98
87) Butyl stearate	13.386	56	528263	117.34 ppm	97
88) Benzo[a]anthracene	13.975	228	1690194	96.29 ppm	100
89) 3,3'-Dichlorobenzidine	13.991	252	648962	99.41 ppm	99
90) Chrysene	14.033	228	1494698	91.24 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.172	149	1132578	102.64 ppm	99
93) Di-n-octylphthalate	15.173	149	2129246	99.69 ppm	98
94) Benzo[b]fluoranthene	15.595	252	1701440	107.79 ppm	99
95) Benzo[k]fluoranthene	15.633	252	1355421	96.22 ppm	97
96) Benzo[a]pyrene	16.028	252	1337890	101.53 ppm	99
97) Indeno[1,2,3-cd]pyrene	17.580	276	1307742	104.17 ppm	98
98) Dibenz(a,h)acridine	17.248	279	1252829	106.01 ppm	99
99) Dibenz[a,h]anthracene	17.622	278	1188142	95.27 ppm	98
100) 7,12-Dimethylbenz(a)an...	15.590	256	791082	112.43 ppm	100
101) Benzo[g,h,i]perylene	17.997	276	1140006	94.26 ppm	98

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

7.6.14

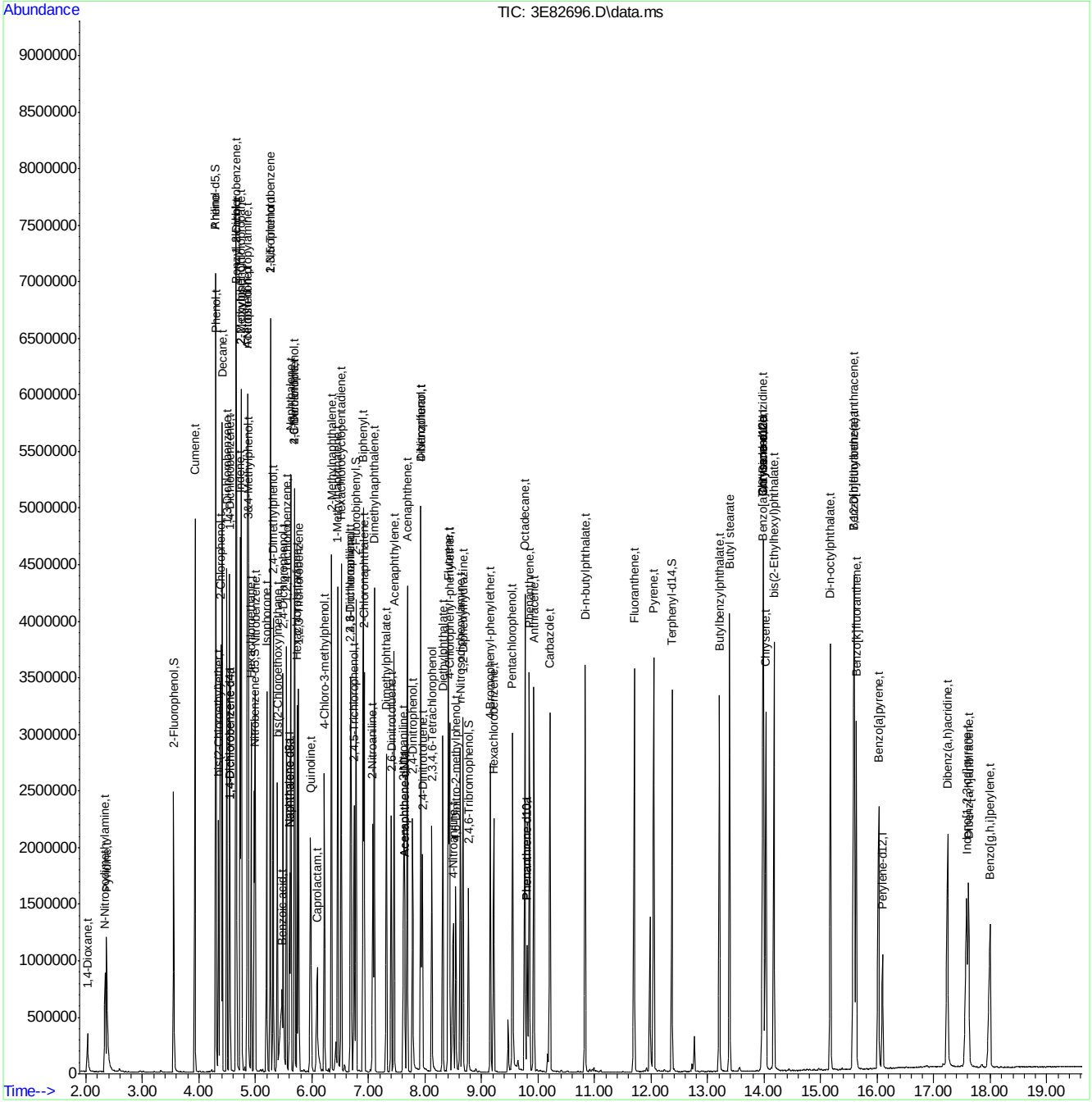
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82696.D
Acq On : 27 Apr 2016 4:35 pm
Operator : ashleyn
Sample : ic3623-100
Misc : op93161,e3e3623
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:46:17 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:56:37 2016
QLast Update : Thu Apr 28 10:56:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82697.D
Acq On : 27 Apr 2016 5:01 pm
Operator : ashleyn
Sample : icc3623-50
Misc : op93161,e3e3623
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 14:48:42 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 14:47:35 2016
QLast Update : Thu Apr 28 14:47:35 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	175863	40.00	ppm	0.00
24) Naphthalene-d8	5.604	136	651751	40.00	ppm	0.00
47) Acenaphthene-d10	7.636	164	354196	40.00	ppm	0.00
69) Phenanthrene-d10	9.803	188	585144	40.00	ppm	0.00
83) Chrysene-d12	13.985	240	629413	40.00	ppm	0.00
92) Perylene-d12	16.093	264	539056	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	175863	40.00	ppm	0.00
104) Acenaphthene-d10a	7.636	164	354196	40.00	ppm	0.00
106) Phenanthrene-d10a	9.803	188	585144	40.00	ppm	0.00
110) Chrysene-d12a	13.985	240	629413	40.00	ppm	0.00
112) Naphthalene-d8a	5.604	136	651751	40.00	ppm	0.00
114) Chrysene-d12b	13.985	240	629413	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.550	112	271715	50.40	ppm	0.00
Spiked Amount 50.000			Recovery = 100.80%			
8) Phenol-d5	4.288	99	355938	50.74	ppm	0.00
Spiked Amount 50.000			Recovery = 101.48%			
25) Nitrobenzene-d5	4.973	82	328197	50.35	ppm	0.00
Spiked Amount 50.000			Recovery = 100.70%			
51) 2-Fluorobiphenyl	6.775	172	582712	49.61	ppm	0.00
Spiked Amount 50.000			Recovery = 99.22%			
73) 2,4,6-Tribromophenol	8.765	330	102949	49.89	ppm	0.00
Spiked Amount 50.000			Recovery = 99.78%			
85) Terphenyl-d14	12.365	244	662699	50.15	ppm	0.00
Spiked Amount 50.000			Recovery = 100.30%			
108) o-Terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.026	88	71262	44.44	ppm	100
3) Pyridine	2.368	79	228432	50.12	ppm	100
4) N-Nitrosodimethylamine	2.336	74	132836	51.21	ppm	100
6) Indene	4.727	116	513014	48.90	ppm	100
7) Cumene	3.925	105	748849	48.81	ppm	100
9) Phenol	4.299	94	395160	51.39	ppm	100
10) Aniline	4.294	93	472043	52.86	ppm	100
11) bis(2-Chloroethyl)ether	4.342	93	252189	47.82	ppm	100
12) 2-Chlorophenol	4.385	128	312358	49.01	ppm	100
13) Decane	4.411	43	333609	49.46	ppm	100
14) 1,3-Dichlorobenzene	4.491	146	336184	48.25	ppm	100
15) 1,4-Dichlorobenzene	4.545	146	344095	47.05	ppm	100
16) Benzyl alcohol	4.652	108	197970	50.97	ppm	100
17) 1,2-Dichlorobenzene	4.657	146	317206	48.16	ppm	100
18) Acetophenone	4.850	105	428904	49.16	ppm	100
19) 2-Methylphenol	4.748	108	263461	48.89	ppm	100
20) 2,2'-oxybis(1-Chloropr...	4.748	121	104922	48.56	ppm	100
21) 3&4-Methylphenol	4.866	108	278945	49.25	ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82697.D
Acq On : 27 Apr 2016 5:01 pm
Operator : ashleyn
Sample : icc3623-50
Misc : op93161,e3e3623
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 14:48:42 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 14:47:35 2016
QLast Update : Thu Apr 28 14:47:35 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.855	70	232868	50.42	ppm		100
23) Hexachloroethane	4.925	201	108811	46.53	ppm		100
26) Nitrobenzene	4.989	77	337648	50.16	ppm		100
27) Quinoline	5.962	129	550729	48.59	ppm		100
28) Isophorone	5.192	82	550045	50.34	ppm		100
29) 2-Nitrophenol	5.256	139	176091	51.12	ppm		100
30) 2,4-Dimethylphenol	5.304	107	307094	51.79	ppm		100
31) Benzoic acid	5.438	105	235499	53.91	ppm		100
32) bis(2-Chloroethoxy)met...	5.379	93	294923	49.59	ppm		100
33) 2,4-Dichlorophenol	5.486	162	233574	50.52	ppm		100
34) 2,6-Dichlorophenol	5.690	162	231717	49.06	ppm		100
35) 1,3,5-Trichlorobenzene	5.262	180	272299	48.72	ppm		100
36) 1,2,4-Trichlorobenzene	5.551	180	249599	47.32	ppm		100
37) 1,2,3-Trichlorobenzene	5.764	180	241237	47.49	ppm		100
38) Naphthalene	5.625	128	873194	48.46	ppm		100
39) 4-Chloroaniline	5.684	127	370841	50.52	ppm		100
40) 2,3-Dichloroaniline	6.674	161	282797	48.53	ppm		100
41) Caprolactam	6.069	55	121563	49.26	ppm		100
42) Hexachlorobutadiene	5.738	225	147453	46.64	ppm		100
43) 4-Chloro-3-methylphenol	6.208	107	257995	48.93	ppm		100
44) 2-Methylnaphthalene	6.342	141	505513	49.42	ppm		100
45) 1-Methylnaphthalene	6.454	141	519288	48.67	ppm		100
46) Dimethylnaphthalene	7.096	156	503354	48.75	ppm		100
48) Hexachlorocyclopentadiene	6.513	237	302161	101.72	ppm		100
49) 2,4,6-Trichlorophenol	6.684	196	165070	51.40	ppm		100
50) 2,4,5-Trichlorophenol	6.738	196	176664	49.39	ppm		100
52) 2-Chloronaphthalene	6.920	162	500412	49.84	ppm		100
53) Biphenyl	6.898	154	676468	50.53	ppm		100
54) 2-Nitroaniline	7.064	65	187560	50.41	ppm		100
55) Dimethylphthalate	7.310	163	583804	49.64	ppm		100
56) Acenaphthylene	7.444	152	836669	49.93	ppm		100
57) 2,6-Dinitrotoluene	7.390	165	135884	51.61	ppm		100
58) 3-Nitroaniline	7.615	138	152537	52.02	ppm		100
59) Acenaphthene	7.679	153	555020	49.88	ppm		100
60) 2,4-Dinitrophenol	7.770	184	143594	101.94	ppm		100
61) 4-Nitrophenol	7.915	109	101952	53.83	ppm	#	57
62) Dibenzofuran	7.920	168	717646	49.00	ppm		100
63) 2,4-Dinitrotoluene	7.947	165	191570	53.19	ppm		100
64) 2,3,4,6-Tetrachlorophenol	8.113	232	137302	51.78	ppm		100
65) Diethylphthalate	8.305	149	623816	50.50	ppm		100
66) Fluorene	8.407	166	613791	50.05	ppm		100
67) 4-Chlorophenyl-phenyle...	8.428	204	271353	48.53	ppm		100
68) 4-Nitroaniline	8.482	138	150334	53.33	ppm		100
70) 4,6-Dinitro-2-methylph...	8.535	198	109209	50.73	ppm		100
71) n-Nitrosodiphenylamine	8.615	169	415449	51.12	ppm		100
72) 1,2-Diphenylhydrazine	8.663	77	636291	52.56	ppm		100
74) 4-Bromophenyl-phenylether	9.150	248	170590	49.04	ppm		100
75) Hexachlorobenzene	9.214	284	196405	47.08	ppm		100
76) Pentachlorophenol	9.541	266	222234	111.91	ppm		100
77) Phenanthrene	9.840	178	826947	48.71	ppm		100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82697.D
Acq On : 27 Apr 2016 5:01 pm
Operator : ashleyn
Sample : icc3623-50
Misc : op93161,e3e3623
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 14:48:42 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 14:47:35 2016
QLast Update : Thu Apr 28 14:47:35 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	9.915	178	848568	49.89 ppm	100
79) Carbazole	10.204	167	778462	50.59 ppm	100
80) Di-n-butylphthalate	10.830	149	1054410	53.05 ppm	100
81) Fluoranthene	11.696	202	938229	50.96 ppm	100
82) Octadecane	9.760	57	369633	53.47 ppm	100
84) Pyrene	12.044	202	951671	50.51 ppm	100
86) Butylbenzylphthalate	13.204	149	485883	54.07 ppm	100
87) Butyl stearate	13.381	56	262225	55.58 ppm	100
88) Benzo[a]anthracene	13.964	228	902867	49.08 ppm	100
89) 3,3'-Dichlorobenzidine	13.985	252	350305	51.20 ppm	100
90) Chrysene	14.023	228	835228	48.65 ppm	100
91) bis(2-Ethylhexyl)phtha...	14.167	149	610894	52.83 ppm	100
93) Di-n-octylphthalate	15.162	149	1101372	49.89 ppm	100
94) Benzo[b]fluoranthene	15.579	252	901952	49.49 ppm	100
95) Benzo[k]fluoranthene	15.622	252	830899	51.09 ppm	100
96) Benzo[a]pyrene	16.018	252	771104	50.69 ppm	100
97) Indeno[1,2,3-cd]pyrene	17.564	276	753798	52.01 ppm	100
98) Dibenz(a,h)acridine	17.237	279	714697	52.38 ppm	100
99) Dibenz[a,h]anthracene	17.606	278	720059	50.01 ppm	100
100) 7,12-Dimethylbenz(a)an...	15.579	256	434160	53.45 ppm	100
101) Benzo[g,h,i]perylene	17.975	276	683275	48.94 ppm	100

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

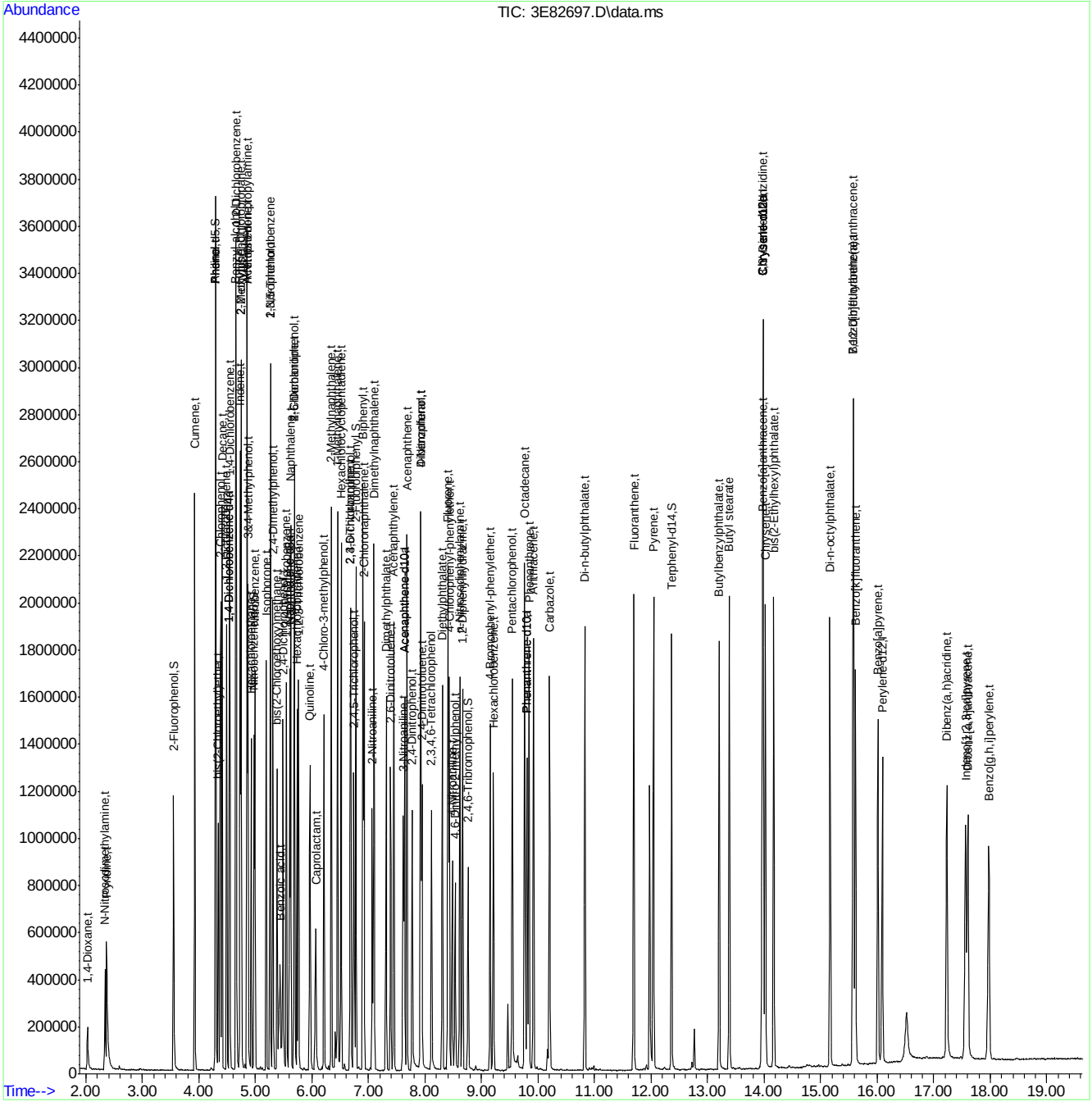
7.6.15

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82697.D
Acq On : 27 Apr 2016 5:01 pm
Operator : ashleyn
Sample : icc3623-50
Misc : op93161,e3e3623
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 14:48:42 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 14:47:35 2016
QLast Update : Thu Apr 28 14:47:35 2016
Response via : Initial Calibration



M3E3623.M Thu Apr 28 14:48:51 2016 MS3E Page: 4

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/28/16 16:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82698.D
Acq On : 27 Apr 2016 5:27 pm
Operator : ashleyn
Sample : ic3623-80
Misc : op93161,e3e3623
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:17:30 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:07:42 2016
QLast Update : Thu Apr 28 09:07:42 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	166604	40.00	ppm	0.00
24) Naphthalene-d8	5.604	136	615922	40.00	ppm	0.00
47) Acenaphthene-d10	7.637	164	327640	40.00	ppm	0.00
69) Phenanthrene-d10	9.803	188	533610	40.00	ppm	0.00
83) Chrysene-d12	13.985	240	582640	40.00	ppm	0.00
92) Perylene-d12	16.093	264	467933	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	166604	40.00	ppm	0.00
104) Acenaphthene-d10a	7.637	164	327640	40.00	ppm	0.00
106) Phenanthrene-d10a	9.803	188	533610	40.00	ppm	0.00
110) Chrysene-d12a	13.985	240	582640	40.00	ppm	0.00
112) Naphthalene-d8a	5.604	136	615922	40.00	ppm	0.00
114) Chrysene-d12b	13.985	240	582640	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.550	112	429481	81.79	ppm	0.00
Spiked Amount 50.000			Recovery = 163.58%			
8) Phenol-d5	4.294	99	582356	82.66	ppm	0.00
Spiked Amount 50.000			Recovery = 165.32%			
25) Nitrobenzene-d5	4.978	82	502856	80.70	ppm	0.00
Spiked Amount 50.000			Recovery = 161.40%			
51) 2-Fluorobiphenyl	6.781	172	872213	81.21	ppm	0.00
Spiked Amount 50.000			Recovery = 162.42%			
73) 2,4,6-Tribromophenol	8.771	330	146349	78.04	ppm	0.00
Spiked Amount 50.000			Recovery = 156.08%			
85) Terphenyl-d14	12.365	244	956752	78.84	ppm	0.00
Spiked Amount 50.000			Recovery = 157.68%			
108) o-Terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.026	88	112013	81.46	ppm	95
3) Pyridine	2.363	79	361178	81.81	ppm	99
4) N-Nitrosodimethylamine	2.336	74	209521	82.49	ppm	90
6) Indene	4.727	116	808714	82.46	ppm	98
7) Cumene	3.930	105	1188166	82.15	ppm	97
9) Phenol	4.299	94	627314	82.20	ppm	89
10) Aniline	4.294	93	701878	79.66	ppm	90
11) bis(2-Chloroethyl)ether	4.347	93	396539	82.23	ppm	96
12) 2-Chlorophenol	4.385	128	488806	81.32	ppm	99
13) Decane	4.411	43	522527	81.41	ppm	97
14) 1,3-Dichlorobenzene	4.492	146	532344	82.36	ppm	100
15) 1,4-Dichlorobenzene	4.545	146	535889	81.30	ppm	100
16) Benzyl alcohol	4.652	108	319746	83.01	ppm	97
17) 1,2-Dichlorobenzene	4.663	146	501173	82.05	ppm	96
18) Acetophenone	4.855	105	673960	83.47	ppm	97
19) 2-Methylphenol	4.748	108	406383	81.31	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.748	121	162626	81.26	ppm	94
21) 3&4-Methylphenol	4.871	108	436872	81.73	ppm	98

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82698.D
Acq On : 27 Apr 2016 5:27 pm
Operator : ashleyn
Sample : ic3623-80
Misc : op93161,e3e3623
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:17:30 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:07:42 2016
QLast Update : Thu Apr 28 09:07:42 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.855	70	363245	82.53	ppm		91
23) Hexachloroethane	4.925	201	165532	80.45	ppm		93
26) Nitrobenzene	4.994	77	517320	79.62	ppm		98
27) Quinoline	5.973	129	807539	78.56	ppm		99
28) Isophorone	5.192	82	839752	80.40	ppm		96
29) 2-Nitrophenol	5.262	139	276419	81.03	ppm		90
30) 2,4-Dimethylphenol	5.310	107	458133	79.26	ppm		98
31) Benzoic acid	5.460	105	356638m	79.73	ppm		
32) bis(2-Chloroethoxy)met...	5.385	93	445278	79.03	ppm		97
33) 2,4-Dichlorophenol	5.487	162	355549	79.78	ppm		99
34) 2,6-Dichlorophenol	5.695	162	349105	79.54	ppm		99
35) 1,3,5-Trichlorobenzene	5.262	180	417293	79.89	ppm		99
36) 1,2,4-Trichlorobenzene	5.551	180	382177	79.98	ppm		99
37) 1,2,3-Trichlorobenzene	5.765	180	353372	78.76	ppm		99
38) Naphthalene	5.626	128	1336508	80.10	ppm		99
39) 4-Chloroaniline	5.690	127	563279	79.69	ppm		97
40) 2,3-Dichloroaniline	6.679	161	419813	79.58	ppm		98
41) Caprolactam	6.086	55	182366	80.81	ppm		97
42) Hexachlorobutadiene	5.738	225	217056	79.03	ppm		99
43) 4-Chloro-3-methylphenol	6.214	107	398458	81.73	ppm		98
44) 2-Methylnaphthalene	6.342	141	760638	79.87	ppm		99
45) 1-Methylnaphthalene	6.455	141	780010	79.97	ppm		99
46) Dimethylnaphthalene	7.096	156	750781	80.28	ppm		100
48) Hexachlorocyclopentadiene	6.519	237	457438	160.50	ppm		99
49) 2,4,6-Trichlorophenol	6.690	196	240985	79.22	ppm		97
50) 2,4,5-Trichlorophenol	6.743	196	259792	79.78	ppm		97
52) 2-Chloronaphthalene	6.920	162	734460	80.30	ppm		99
53) Biphenyl	6.904	154	1026561	81.72	ppm		99
54) 2-Nitroaniline	7.070	65	298111	84.98	ppm		97
55) Dimethylphthalate	7.316	163	852876	79.59	ppm		100
56) Acenaphthylene	7.449	152	1251883	81.67	ppm		97
57) 2,6-Dinitrotoluene	7.396	165	197333	79.34	ppm		99
58) 3-Nitroaniline	7.621	138	224002	80.04	ppm		100
59) Acenaphthene	7.685	153	834916	81.71	ppm		96
60) 2,4-Dinitrophenol	7.776	184	224563	163.77	ppm		97
61) 4-Nitrophenol	7.920	109	158128	84.31	ppm	#	81
62) Dibenzofuran	7.925	168	1079177	81.47	ppm		95
63) 2,4-Dinitrotoluene	7.952	165	277127	79.82	ppm		71
64) 2,3,4,6-Tetrachlorophenol	8.118	232	198203	79.01	ppm		96
65) Diethylphthalate	8.311	149	943822	82.11	ppm		99
66) Fluorene	8.412	166	912648	80.84	ppm		99
67) 4-Chlorophenyl-phenyle...	8.434	204	389674	79.47	ppm		98
68) 4-Nitroaniline	8.492	138	221451	81.74	ppm		95
70) 4,6-Dinitro-2-methylph...	8.541	198	162194	80.01	ppm		94
71) n-Nitrosodiphenylamine	8.621	169	605333	79.38	ppm		99
72) 1,2-Diphenylhydrazine	8.664	77	948330	81.08	ppm		97
74) 4-Bromophenyl-phenylether	9.156	248	243603	79.14	ppm		98
75) Hexachlorobenzene	9.214	284	281638	79.27	ppm		95
76) Pentachlorophenol	9.546	266	326404	157.26	ppm		99
77) Phenanthrene	9.840	178	1235999	81.43	ppm		100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82698.D
Acq On : 27 Apr 2016 5:27 pm
Operator : ashleyn
Sample : ic3623-80
Misc : op93161,e3e3623
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:17:30 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:07:42 2016
QLast Update : Thu Apr 28 09:07:42 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	9.921	178	1240688	80.07 ppm	100
79) Carbazole	10.204	167	1135331	79.95 ppm	100
80) Di-n-butylphthalate	10.830	149	1575664	80.90 ppm	98
81) Fluoranthene	11.696	202	1381686	80.18 ppm	99
82) Octadecane	9.765	57	563809	81.66 ppm	97
84) Pyrene	12.049	202	1396000	79.71 ppm	99
86) Butylbenzylphthalate	13.210	149	732279	81.33 ppm	98
87) Butyl stearate	13.386	56	400613	80.29 ppm	97
88) Benzo[a]anthracene	13.969	228	1326612	80.13 ppm	99
89) 3,3'-Dichlorobenzidine	13.991	252	512512	80.20 ppm	99
90) Chrysene	14.028	228	1200866	80.16 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.173	149	903366	81.03 ppm	100
93) Di-n-octylphthalate	15.168	149	1657300	81.92 ppm	99
94) Benzo[b]fluoranthene	15.590	252	1358924	83.09 ppm	98
95) Benzo[k]fluoranthene	15.628	252	1114766	79.60 ppm	98
96) Benzo[a]pyrene	16.023	252	1098021	81.96 ppm	99
97) Indeno[1,2,3-cd]pyrene	17.574	276	1056684	80.74 ppm	97
98) Dibenz(a,h)acridine	17.243	279	1025865	82.19 ppm	99
99) Dibenz[a,h]anthracene	17.617	278	1000269	81.96 ppm	98
100) 7,12-Dimethylbenz(a)an...	15.585	256	625859	80.94 ppm	100
101) Benzo[g,h,i]perylene	17.986	276	959762	82.47 ppm	99

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

7.6.16

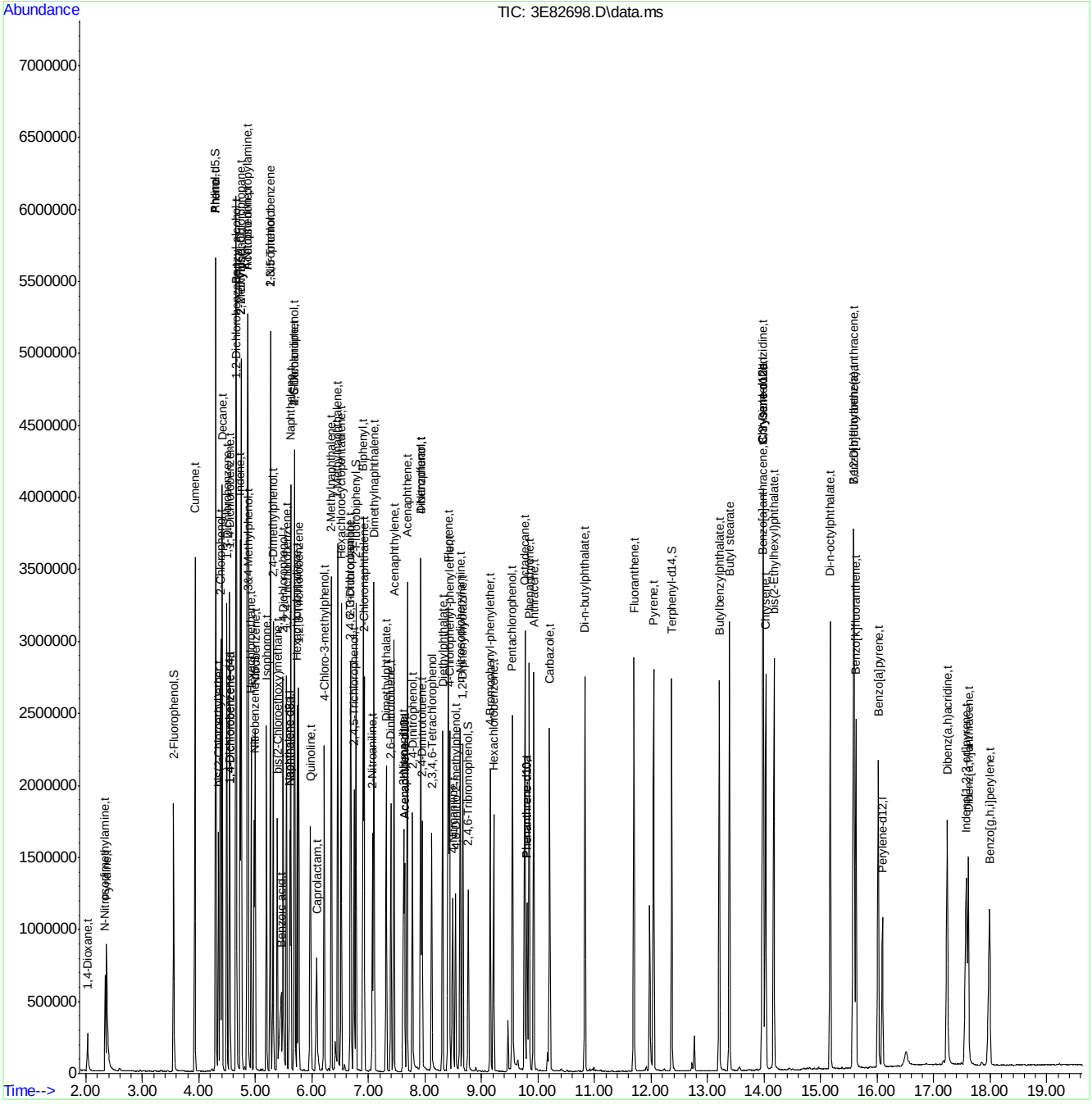
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82698.D
Acq On : 27 Apr 2016 5:27 pm
Operator : ashleyn
Sample : ic3623-80
Misc : op93161,e3e3623
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:17:30 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:07:42 2016
QLast Update : Thu Apr 28 09:07:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

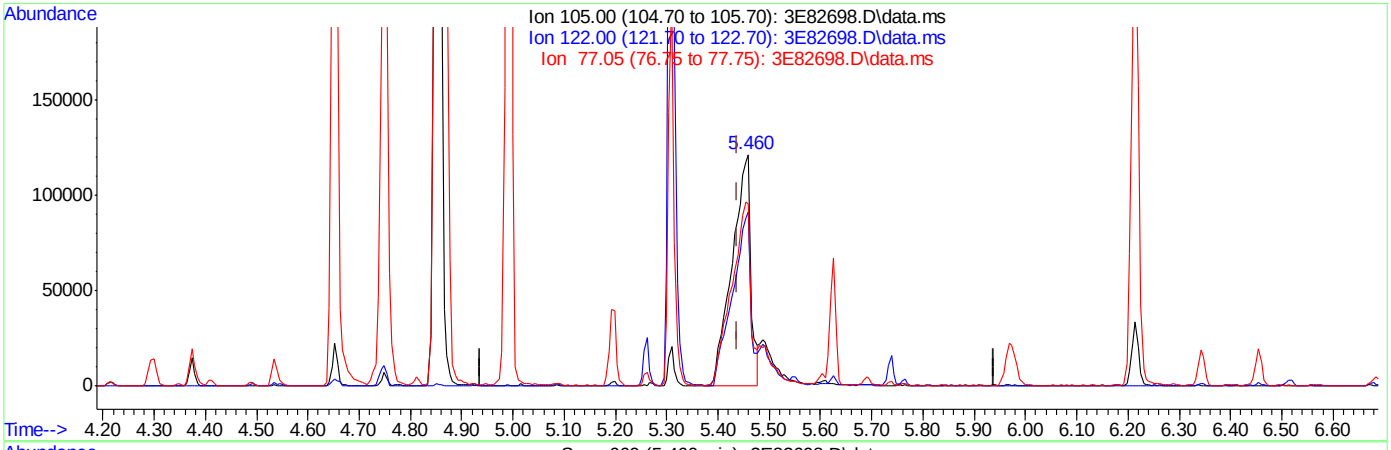
Sample Number:	E3E3623-IC3623	**Method:**	SW846 8270D
Lab FileID:	3E82698.D	**Analyst approved:**	04/28/16 10:43 Ashley Noble
Injection Time:	04/27/16 17:27	**Supervisor approved:**	04/28/16 16:14 Kristi Schollenberger

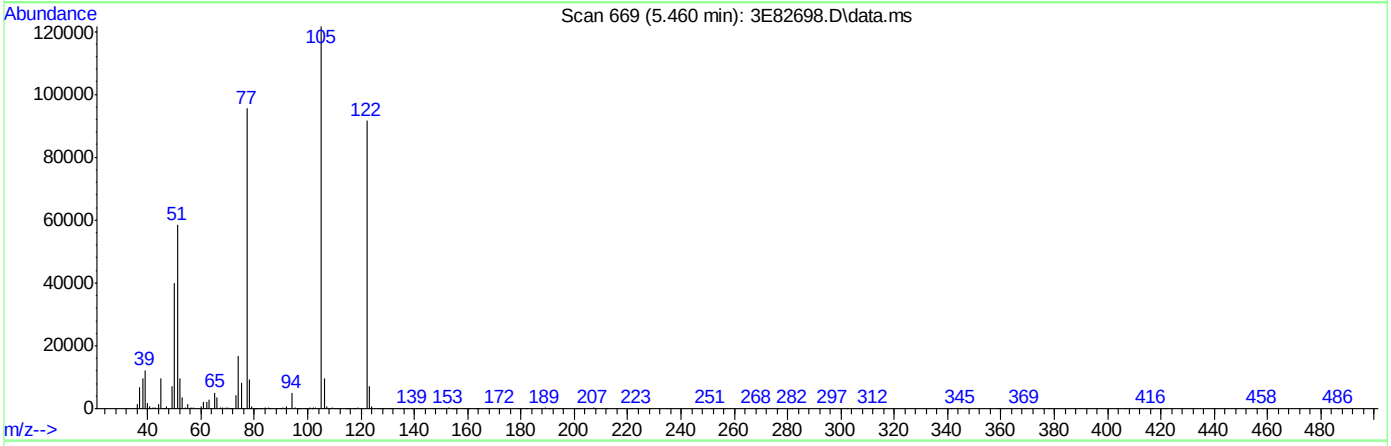
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.46	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82698.D
Acq On : 27 Apr 2016 5:27 pm
Operator : ashleyn
Sample : ic3623-80
Misc : op93161,e3e3623
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:09:04 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:07:42 2016
QLast Update : Thu Apr 28 09:07:42 2016
Response via : Initial Calibration





TIC: 3E82698.D\data.ms

(31) Benzoic acid (t)

5.460min (+0.022) 68.67ppm

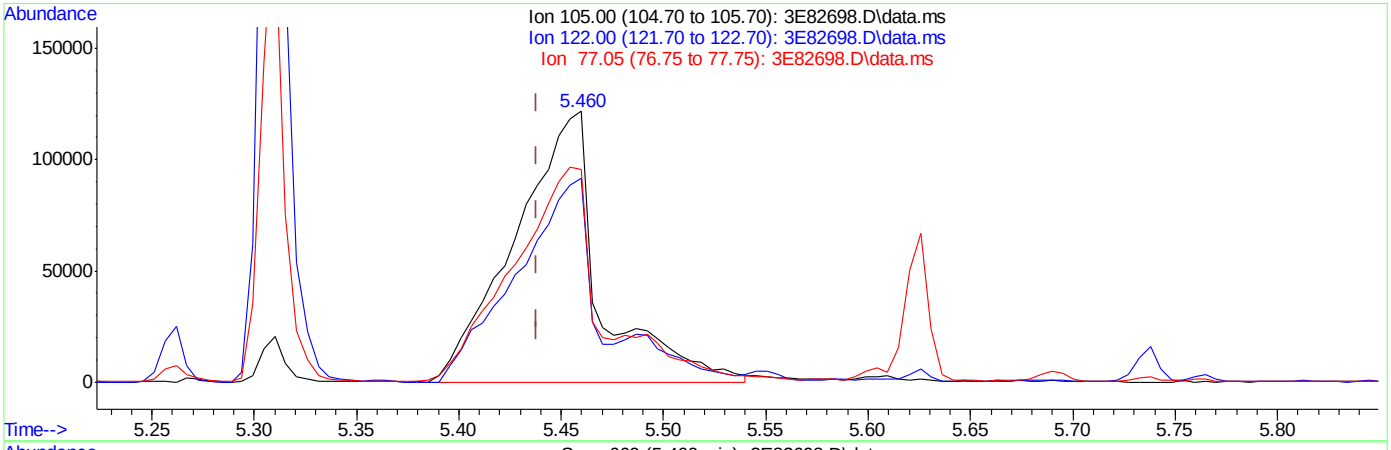
response 307168

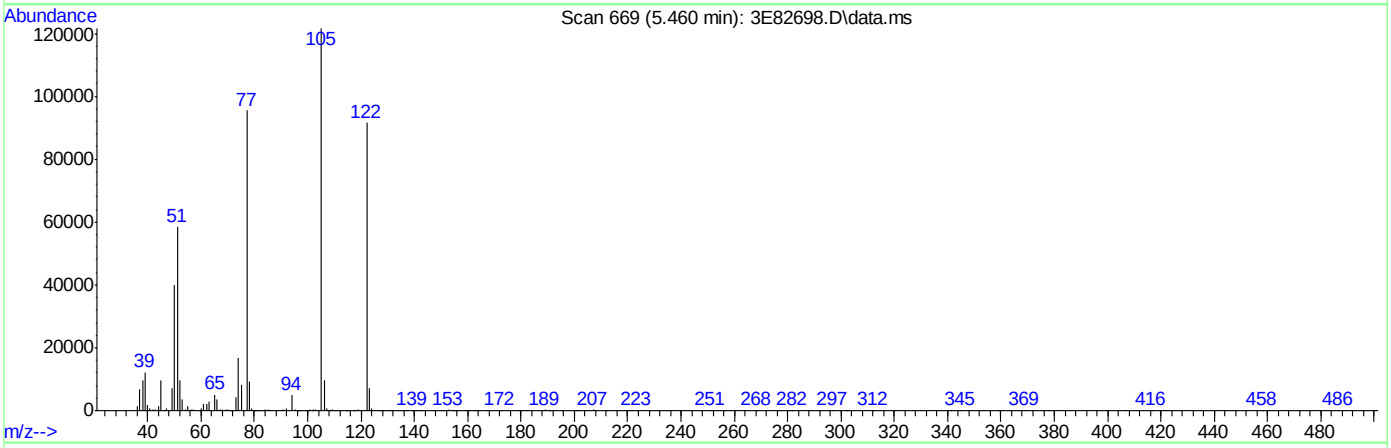
Ion	Exp%	Act%
105.00	100	100
122.00	74.00	74.72
77.05	79.10	77.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82698.D
Acq On : 27 Apr 2016 5:27 pm
Operator : ashleyn
Sample : ic3623-80
Misc : op93161,e3e3623
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:09:04 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:07:42 2016
QLast Update : Thu Apr 28 09:07:42 2016
Response via : Initial Calibration





TIC: 3E82698.D\data.ms

(31) Benzoic acid (t)

5.460min (+0.022) 79.73ppm m

response 356638

Ion	Exp%	Act%
105.00	100	100
122.00	74.00	75.23
77.05	79.10	78.55
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82699.D
Acq On : 27 Apr 2016 5:53 pm
Operator : ashleyn
Sample : ic3623-25
Misc : op93161,e3e3623
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 09:19:51 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:07:42 2016
QLast Update : Thu Apr 28 09:07:42 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	169242	40.00 ppm	0.00
24) Naphthalene-d8	5.599	136	656613	40.00 ppm	0.00
47) Acenaphthene-d10	7.631	164	378829	40.00 ppm	0.00
69) Phenanthrene-d10	9.797	188	636547	40.00 ppm	0.00
83) Chrysene-d12	13.980	240	686362	40.00 ppm	0.00
92) Perylene-d12	16.087	264	617001	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	169242	40.00 ppm	0.00
104) Acenaphthene-d10a	7.631	164	378829	40.00 ppm	0.00
106) Phenanthrene-d10a	9.797	188	636547	40.00 ppm	0.00
110) Chrysene-d12a	13.980	240	686362	40.00 ppm	0.00
112) Naphthalene-d8a	5.599	136	656613	40.00 ppm	0.00
114) Chrysene-d12b	13.980	240	686362	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	3.550	112	131074	24.57 ppm	0.00
Spiked Amount 50.000			Recovery = 49.14%		
8) Phenol-d5	4.288	99	166363	23.25 ppm	0.00
Spiked Amount 50.000			Recovery = 46.50%		
25) Nitrobenzene-d5	4.968	82	164713	24.80 ppm	0.00
Spiked Amount 50.000			Recovery = 49.60%		
51) 2-Fluorobiphenyl	6.775	172	299507	24.12 ppm	0.00
Spiked Amount 50.000			Recovery = 48.24%		
73) 2,4,6-Tribromophenol	8.760	330	56025	25.04 ppm	0.00
Spiked Amount 50.000			Recovery = 50.08%		
85) Terphenyl-d14	12.359	244	356296	24.92 ppm	0.00
Spiked Amount 50.000			Recovery = 49.84%		
108) o-Terphenyl	0.000	230	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
109) 1-Chlorooctadecane	0.000	57	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.031	88	36197	25.91 ppm	95
3) Pyridine	2.368	79	111031	24.76 ppm	95
4) N-Nitrosodimethylamine	2.336	74	65643	25.44 ppm	92
6) Indene	4.727	116	247264	24.82 ppm	99
7) Cumene	3.925	105	357855	24.36 ppm	97
9) Phenol	4.299	94	182439	23.53 ppm	99
10) Aniline	4.294	93	216509	24.19 ppm	81
11) bis(2-Chloroethyl)ether	4.342	93	123309	25.17 ppm	97
12) 2-Chlorophenol	4.385	128	151900	24.88 ppm	98
13) Decane	4.406	43	159234	24.42 ppm	94
14) 1,3-Dichlorobenzene	4.486	146	164182	25.00 ppm	98
15) 1,4-Dichlorobenzene	4.545	146	165561	24.73 ppm	99
16) Benzyl alcohol	4.647	108	94030	24.03 ppm	90
17) 1,2-Dichlorobenzene	4.657	146	155490	25.06 ppm	98
18) Acetophenone	4.850	105	206978	25.23 ppm	97
19) 2-Methylphenol	4.743	108	127078	25.03 ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.743	121	51944	25.55 ppm	98
21) 3&4-Methylphenol	4.866	108	135489	24.95 ppm	99

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82699.D
Acq On : 27 Apr 2016 5:53 pm
Operator : ashleyn
Sample : ic3623-25
Misc : op93161,e3e3623
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 09:19:51 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:07:42 2016
QLast Update : Thu Apr 28 09:07:42 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.850	70	111991	25.05 ppm		97
23) Hexachloroethane	4.925	201	54373	26.02 ppm		94
26) Nitrobenzene	4.984	77	169128	24.42 ppm		93
27) Quinoline	5.957	129	280037	25.55 ppm		99
28) Isophorone	5.187	82	268652	24.13 ppm		98
29) 2-Nitrophenol	5.256	139	84093	23.12 ppm		90
30) 2,4-Dimethylphenol	5.305	107	151751	24.63 ppm		99
31) Benzoic acid	5.412	105	117132	24.56 ppm		97
32) bis(2-Chloroethoxy)met...	5.379	93	144542	24.06 ppm		98
33) 2,4-Dichlorophenol	5.481	162	118015	24.84 ppm		95
34) 2,6-Dichlorophenol	5.690	162	115788	24.75 ppm		98
35) 1,3,5-Trichlorobenzene	5.262	180	133190	23.92 ppm		99
36) 1,2,4-Trichlorobenzene	5.545	180	126440	24.82 ppm		98
37) 1,2,3-Trichlorobenzene	5.759	180	123475	25.82 ppm		97
38) Naphthalene	5.620	128	432255	24.30 ppm		99
39) 4-Chloroaniline	5.684	127	183543	24.36 ppm		98
40) 2,3-Dichloroaniline	6.674	161	141491	25.16 ppm		99
41) Caprolactam	6.048	55	64698	26.89 ppm		95
42) Hexachlorobutadiene	5.732	225	76038	25.97 ppm		100
43) 4-Chloro-3-methylphenol	6.203	107	131704	25.34 ppm		96
44) 2-Methylnaphthalene	6.342	141	251436	24.77 ppm		98
45) 1-Methylnaphthalene	6.449	141	262533	25.25 ppm		99
46) Dimethylnaphthalene	7.091	156	255808	25.66 ppm		97
48) Hexachlorocyclopentadiene	6.513	237	138745	42.10 ppm		97
49) 2,4,6-Trichlorophenol	6.684	196	85386	24.28 ppm		98
50) 2,4,5-Trichlorophenol	6.738	196	88416	23.48 ppm		95
52) 2-Chloronaphthalene	6.914	162	258786	24.47 ppm		98
53) Biphenyl	6.893	154	340582	23.45 ppm		99
54) 2-Nitroaniline	7.059	65	98288	24.23 ppm		97
55) Dimethylphthalate	7.305	163	306266	24.72 ppm		98
56) Acenaphthylene	7.444	152	431883	24.37 ppm		97
57) 2,6-Dinitrotoluene	7.385	165	70026	24.35 ppm		98
58) 3-Nitroaniline	7.610	138	77457	23.94 ppm		95
59) Acenaphthene	7.674	153	278321	23.56 ppm		98
60) 2,4-Dinitrophenol	7.765	184	61361	38.70 ppm		96
61) 4-Nitrophenol	7.915	109	50961	23.50 ppm	#	44
62) Dibenzofuran	7.920	168	372073	24.29 ppm		94
63) 2,4-Dinitrotoluene	7.941	165	98175	24.46 ppm		80
64) 2,3,4,6-Tetrachlorophenol	8.113	232	69198	23.86 ppm		94
65) Diethylphthalate	8.300	149	325833	24.52 ppm		99
66) Fluorene	8.401	166	316275	24.23 ppm		99
67) 4-Chlorophenyl-phenyle...	8.428	204	144871	25.55 ppm		96
68) 4-Nitroaniline	8.471	138	76150	24.31 ppm		96
70) 4,6-Dinitro-2-methylph...	8.524	198	52679	21.78 ppm		91
71) n-Nitrosodiphenylamine	8.610	169	212802	23.39 ppm		98
72) 1,2-Diphenylhydrazine	8.658	77	325061	23.30 ppm		100
74) 4-Bromophenyl-phenylether	9.150	248	88446	24.09 ppm		98
75) Hexachlorobenzene	9.209	284	106499	25.13 ppm		98
76) Pentachlorophenol	9.541	266	111325	44.96 ppm		96
77) Phenanthrene	9.835	178	435298	24.04 ppm		99

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82699.D
Acq On : 27 Apr 2016 5:53 pm
Operator : ashleyn
Sample : ic3623-25
Misc : op93161,e3e3623
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 09:19:51 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:07:42 2016
QLast Update : Thu Apr 28 09:07:42 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	9.910	178	447800	24.22 ppm	99
79) Carbazole	10.199	167	400167	23.62 ppm	98
80) Di-n-butylphthalate	10.824	149	538964	23.20 ppm	99
81) Fluoranthene	11.691	202	481158	23.41 ppm	99
82) Octadecane	9.760	57	182285	22.13 ppm	96
84) Pyrene	12.038	202	502576	24.36 ppm	98
86) Butylbenzylphthalate	13.204	149	250247	23.59 ppm	97
87) Butyl stearate	13.381	56	130595	22.22 ppm	92
88) Benzo[a]anthracene	13.964	228	482758	24.75 ppm	98
89) 3,3'-Dichlorobenzidine	13.980	252	191333	25.42 ppm	98
90) Chrysene	14.017	228	460084	26.07 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.167	149	337045	25.66 ppm	100
93) Di-n-octylphthalate	15.162	149	582074	21.82 ppm	97
94) Benzo[b]fluoranthene	15.569	252	511710	23.73 ppm	99
95) Benzo[k]fluoranthene	15.611	252	453609	24.56 ppm	99
96) Benzo[a]pyrene	16.007	252	430506	24.37 ppm	99
97) Indeno[1,2,3-cd]pyrene	17.553	276	412456	23.90 ppm	99
98) Dibenz(a,h)acridine	17.227	279	386805	23.50 ppm	99
99) Dibenz[a,h]anthracene	17.590	278	412067	25.61 ppm	99
100) 7,12-Dimethylbenz(a)an...	15.569	256	235923	23.14 ppm	99
101) Benzo[g,h,i]perylene	17.959	276	397616	25.91 ppm	98

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

7.6.17

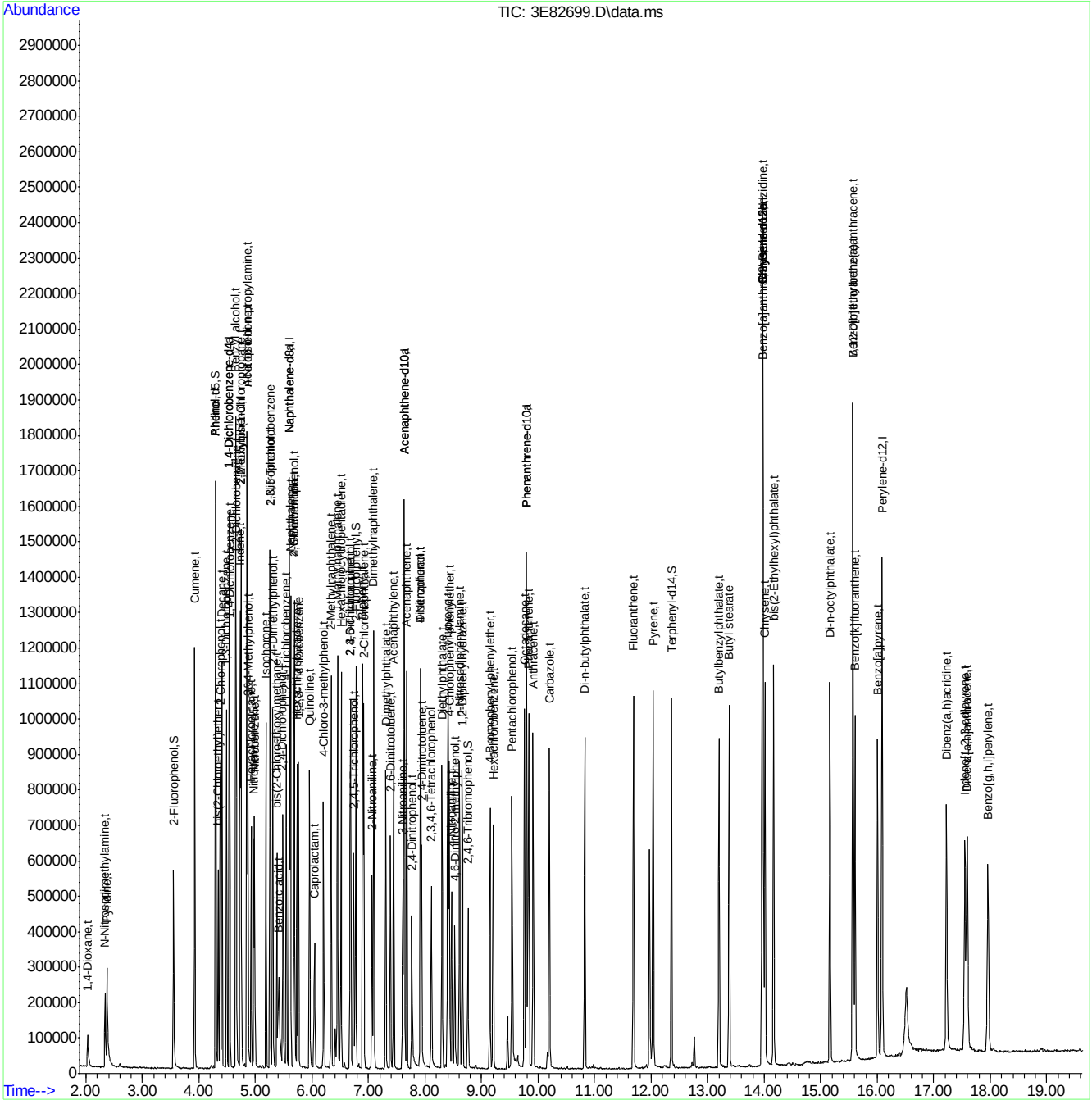
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82699.D
Acq On : 27 Apr 2016 5:53 pm
Operator : ashleyn
Sample : ic3623-25
Misc : op93161,e3e3623
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 09:19:51 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:07:42 2016
QLast Update : Thu Apr 28 09:07:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/28/16 16:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82700.D
Acq On : 27 Apr 2016 6:18 pm
Operator : ashleyn
Sample : ic3623-10
Misc : op93161,e3e3623
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:22:21 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:20:59 2016
QLast Update : Thu Apr 28 09:20:59 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	193225	40.00	ppm	0.00
24) Naphthalene-d8	5.599	136	738599	40.00	ppm	0.00
47) Acenaphthene-d10	7.631	164	429652	40.00	ppm	0.00
69) Phenanthrene-d10	9.797	188	719640	40.00	ppm	0.00
83) Chrysene-d12	13.975	240	781748	40.00	ppm	-0.01
92) Perylene-d12	16.087	264	723976	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	193225	40.00	ppm	0.00
104) Acenaphthene-d10a	7.631	164	429652	40.00	ppm	0.00
106) Phenanthrene-d10a	9.797	188	719640	40.00	ppm	0.00
110) Chrysene-d12a	13.975	240	781748	40.00	ppm	-0.01
112) Naphthalene-d8a	5.599	136	738599	40.00	ppm	0.00
114) Chrysene-d12b	13.975	240	781748	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.550	112	53117	8.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	17.42%	
8) Phenol-d5	4.288	99	69134	8.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	17.08%	
25) Nitrobenzene-d5	4.968	82	67872	9.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.16%	
51) 2-Fluorobiphenyl	6.775	172	129909	9.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.54%	
73) 2,4,6-Tribromophenol	8.760	330	24949	9.92	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.84%	
85) Terphenyl-d14	12.359	244	152282	9.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.78%	
108) o-Terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.031	88	15912	9.84	ppm	97
3) Pyridine	2.374	79	47198	9.19	ppm	97
4) N-Nitrosodimethylamine	2.341	74	25840	8.67	ppm	95
6) Indene	4.727	116	105622	9.23	ppm	96
7) Cumene	3.925	105	152118	9.07	ppm	98
9) Phenol	4.299	94	75924	8.65	ppm	98
10) Aniline	4.288	93	86266	8.52	ppm	89
11) bis(2-Chloroethyl)ether	4.342	93	52436	9.29	ppm	92
12) 2-Chlorophenol	4.385	128	62370	8.92	ppm	93
13) Decane	4.406	43	67138	9.03	ppm	92
14) 1,3-Dichlorobenzene	4.486	146	70060	9.28	ppm	98
15) 1,4-Dichlorobenzene	4.545	146	72182	9.43	ppm	99
16) Benzyl alcohol	4.647	108	37152	8.32	ppm	89
17) 1,2-Dichlorobenzene	4.657	146	65875	9.23	ppm	97
18) Acetophenone	4.845	105	85212	8.98	ppm	96
19) 2-Methylphenol	4.743	108	53609	9.21	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.743	121	21749	9.28	ppm	93
21) 3&4-Methylphenol	4.866	108	55495	8.91	ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82700.D
Acq On : 27 Apr 2016 6:18 pm
Operator : ashleyn
Sample : ic3623-10
Misc : op93161,e3e3623
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:22:21 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:20:59 2016
QLast Update : Thu Apr 28 09:20:59 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	4.845	70	46351	9.00 ppm	94
23) Hexachloroethane	4.919	201	23678	9.81 ppm	84
26) Nitrobenzene	4.984	77	68889	8.90 ppm	99
27) Quinoline	5.957	129	118437	9.60 ppm	99
28) Isophorone	5.182	82	115612	9.30 ppm	97
29) 2-Nitrophenol	5.256	139	35717	8.87 ppm	86
30) 2,4-Dimethylphenol	5.305	107	61328	8.90 ppm	97
31) Benzoic acid	5.412	105	40145m	7.52 ppm	
32) bis(2-Chloroethoxy)met...	5.374	93	61673	9.24 ppm	98
33) 2,4-Dichlorophenol	5.486	162	50833	9.53 ppm	94
34) 2,6-Dichlorophenol	5.690	162	49077	9.36 ppm	98
35) 1,3,5-Trichlorobenzene	5.262	180	58573	9.46 ppm	99
36) 1,2,4-Trichlorobenzene	5.545	180	56407	9.86 ppm	98
37) 1,2,3-Trichlorobenzene	5.759	180	54366	10.06 ppm	96
38) Naphthalene	5.620	128	184786	9.30 ppm	97
39) 4-Chloroaniline	5.679	127	75000	8.91 ppm	98
40) 2,3-Dichloroaniline	6.674	161	61515	9.72 ppm	93
41) Caprolactam	6.032	55	25118	9.09 ppm	97
42) Hexachlorobutadiene	5.732	225	33884	10.22 ppm	97
43) 4-Chloro-3-methylphenol	6.203	107	55143	9.35 ppm	97
44) 2-Methylnaphthalene	6.342	141	106443	9.35 ppm	96
45) 1-Methylnaphthalene	6.449	141	111820	9.54 ppm	98
46) Dimethylnaphthalene	7.091	156	110199	9.75 ppm	98
48) Hexachlorocyclopentadiene	6.513	237	50110	13.95 ppm	95
49) 2,4,6-Trichlorophenol	6.679	196	36324	9.20 ppm	97
50) 2,4,5-Trichlorophenol	6.738	196	39506	9.40 ppm	99
52) 2-Chloronaphthalene	6.915	162	114506	9.59 ppm	100
53) Biphenyl	6.893	154	147040	9.02 ppm	100
54) 2-Nitroaniline	7.059	65	41767	9.01 ppm	90
55) Dimethylphthalate	7.305	163	131665	9.41 ppm	98
56) Acenaphthylene	7.439	152	186145	9.27 ppm	97
57) 2,6-Dinitrotoluene	7.385	165	29704	9.19 ppm	89
58) 3-Nitroaniline	7.604	138	32160	8.86 ppm	97
59) Acenaphthene	7.674	153	124890	9.41 ppm	98
60) 2,4-Dinitrophenol	7.770	184	18473	10.82 ppm	91
61) 4-Nitrophenol	7.925	109	19208	7.82 ppm	92
62) Dibenzofuran	7.915	168	163040	9.41 ppm	91
63) 2,4-Dinitrotoluene	7.941	165	40940	9.05 ppm	80
64) 2,3,4,6-Tetrachlorophenol	8.113	232	30289	9.34 ppm	91
65) Diethylphthalate	8.294	149	138373	9.16 ppm	99
66) Fluorene	8.401	166	132760	9.01 ppm	98
67) 4-Chlorophenyl-phenyle...	8.428	204	62789	9.73 ppm	94
68) 4-Nitroaniline	8.466	138	30946	8.72 ppm	98
70) 4,6-Dinitro-2-methylph...	8.524	198	18838	7.12 ppm	97
71) n-Nitrosodiphenylamine	8.610	169	92910	9.20 ppm	96
72) 1,2-Diphenylhydrazine	8.658	77	138351	8.89 ppm	95
74) 4-Bromophenyl-phenylether	9.145	248	40759	9.94 ppm	98
75) Hexachlorobenzene	9.204	284	49410	10.32 ppm	98
76) Pentachlorophenol	9.535	266	41590	15.31 ppm	92
77) Phenanthrene	9.830	178	189020	9.28 ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82700.D
Acq On : 27 Apr 2016 6:18 pm
Operator : ashleyn
Sample : ic3623-10
Misc : op93161,e3e3623
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:22:21 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:20:59 2016
QLast Update : Thu Apr 28 09:20:59 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	9.910	178	192668	9.29 ppm	100
79) Carbazole	10.199	167	172487	9.13 ppm	99
80) Di-n-butylphthalate	10.824	149	220647	8.53 ppm	99
81) Fluoranthene	11.685	202	206442	9.02 ppm	99
82) Octadecane	9.755	57	75715	8.33 ppm	96
84) Pyrene	12.033	202	215472	9.24 ppm	99
86) Butylbenzylphthalate	13.199	149	98394	8.23 ppm	97
87) Butyl stearate	13.376	56	50263	7.72 ppm	93
88) Benzo[a]anthracene	13.959	228	208508	9.41 ppm	99
89) 3,3'-Dichlorobenzidine	13.980	252	80162	9.30 ppm	99
90) Chrysene	14.012	228	197286	9.71 ppm	98
91) bis(2-Ethylhexyl)phtha...	14.167	149	132606	8.78 ppm	99
93) Di-n-octylphthalate	15.157	149	223924	7.34 ppm	97
94) Benzo[b]fluoranthene	15.563	252	220297	8.73 ppm	98
95) Benzo[k]fluoranthene	15.606	252	206870	9.60 ppm	98
96) Benzo[a]pyrene	16.007	252	190201	9.18 ppm	99
97) Indeno[1,2,3-cd]pyrene	17.542	276	175214	8.75 ppm	99
98) Dibenz(a,h)acridine	17.227	279	164264	8.58 ppm	100
99) Dibenz[a,h]anthracene	17.585	278	181661	9.50 ppm	99
100) 7,12-Dimethylbenz(a)an...	15.563	256	94359	8.01 ppm	97
101) Benzo[g,h,i]perylene	17.954	276	180122	9.84 ppm	97

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

7.6.18

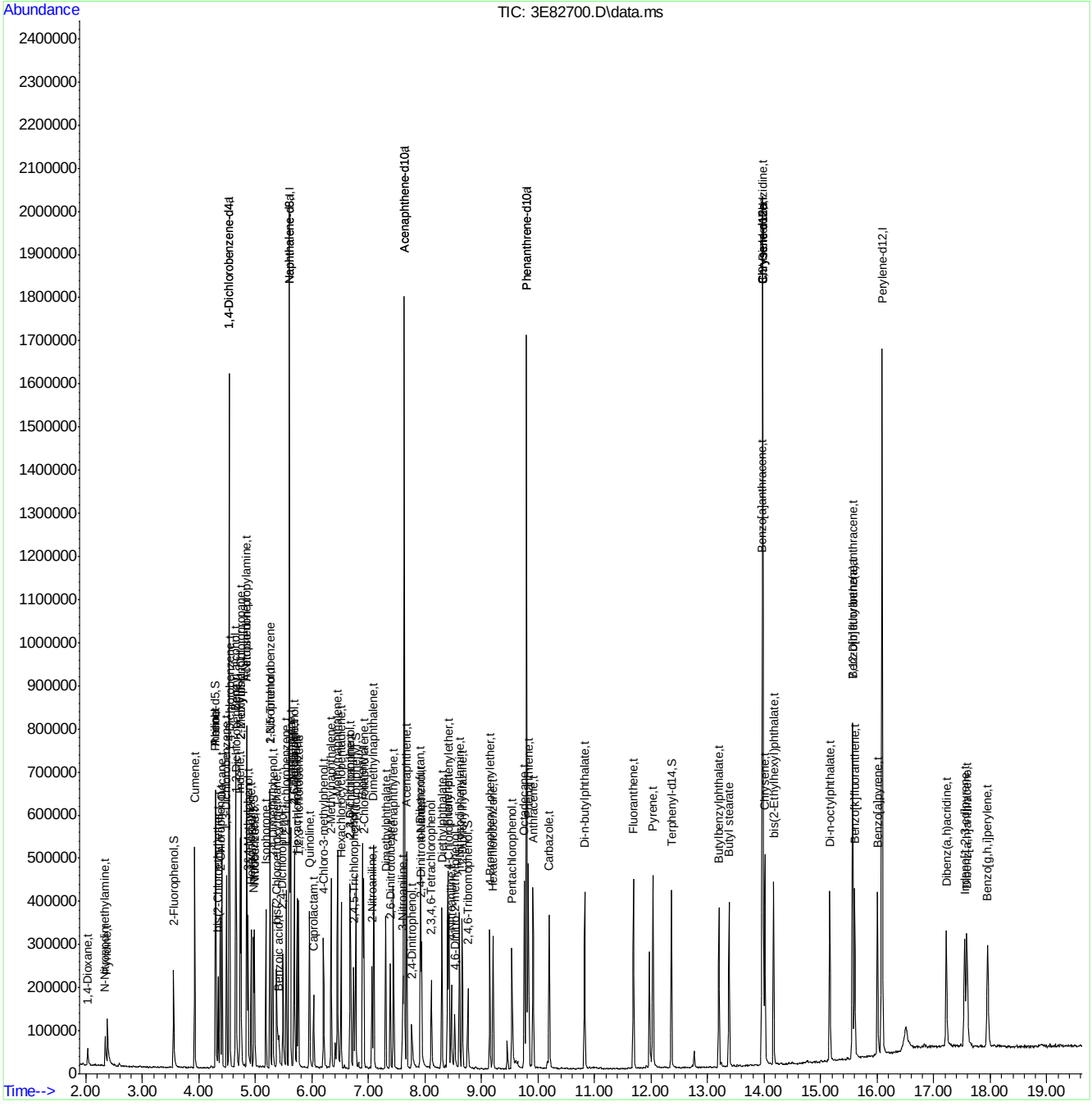
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82700.D
Acq On : 27 Apr 2016 6:18 pm
Operator : ashleyn
Sample : ic3623-10
Misc : op93161,e3e3623
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:22:21 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:20:59 2016
QLast Update : Thu Apr 28 09:20:59 2016
Response via : Initial Calibration



M3E3623.M Thu Apr 28 09:22:36 2016 MS3E Page: 4

SGS ACCUTEST JC19423

Manual Integration Approval Summary

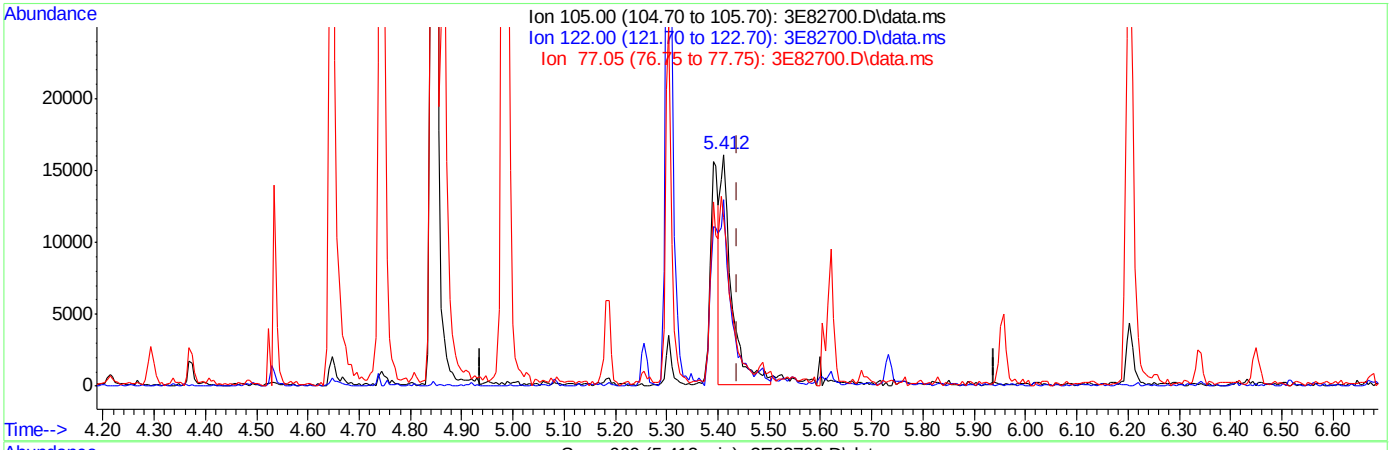
Sample Number:	E3E3623-IC3623	**Method:**	SW846 8270D
Lab FileID:	3E82700.D	**Analyst approved:**	04/28/16 10:43 Ashley Noble
Injection Time:	04/27/16 18:18	**Supervisor approved:**	04/28/16 16:14 Kristi Schollenberger

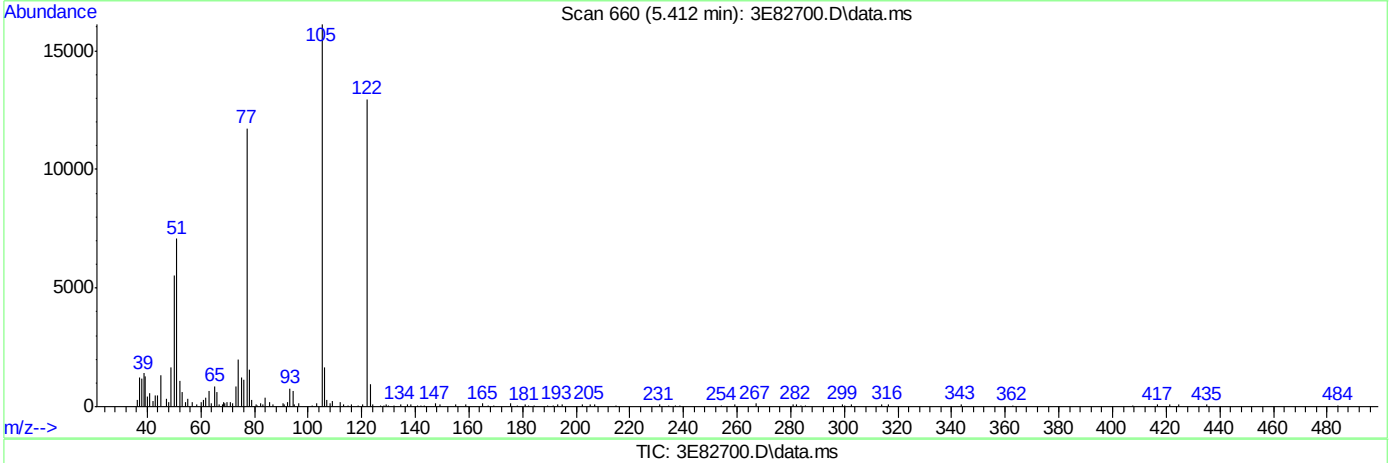
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.41	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82700.D
Acq On : 27 Apr 2016 6:18 pm
Operator : ashleyn
Sample : ic3623-10
Misc : op93161,e3e3623
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:21:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:20:59 2016
QLast Update : Thu Apr 28 09:20:59 2016
Response via : Initial Calibration





TIC: 3E82700.D\data.ms

(31) Benzoic acid (t)

5.412min (-0.027) 4.51ppm

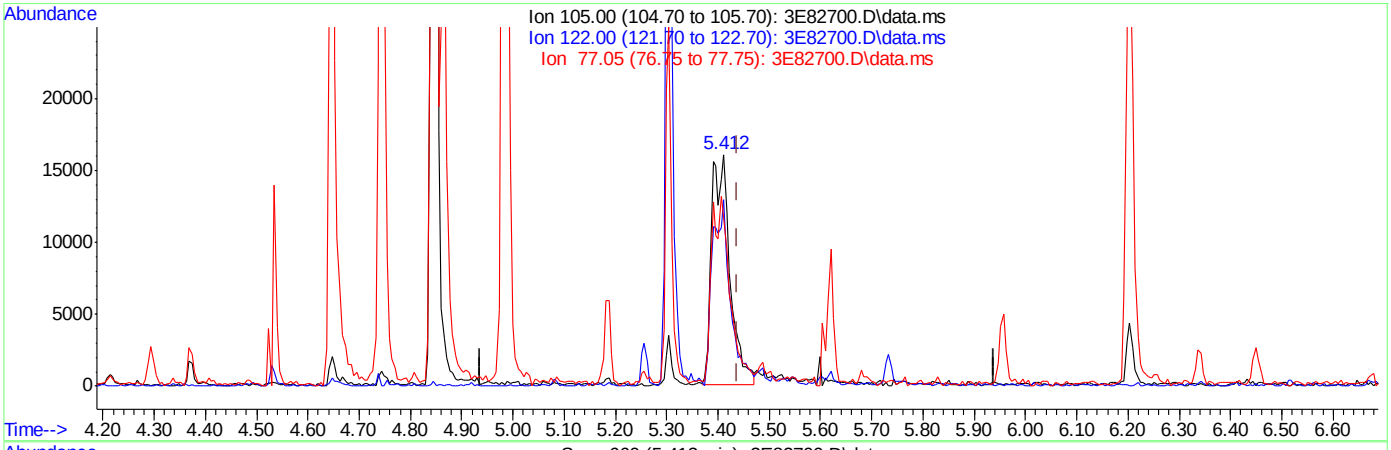
response 24058

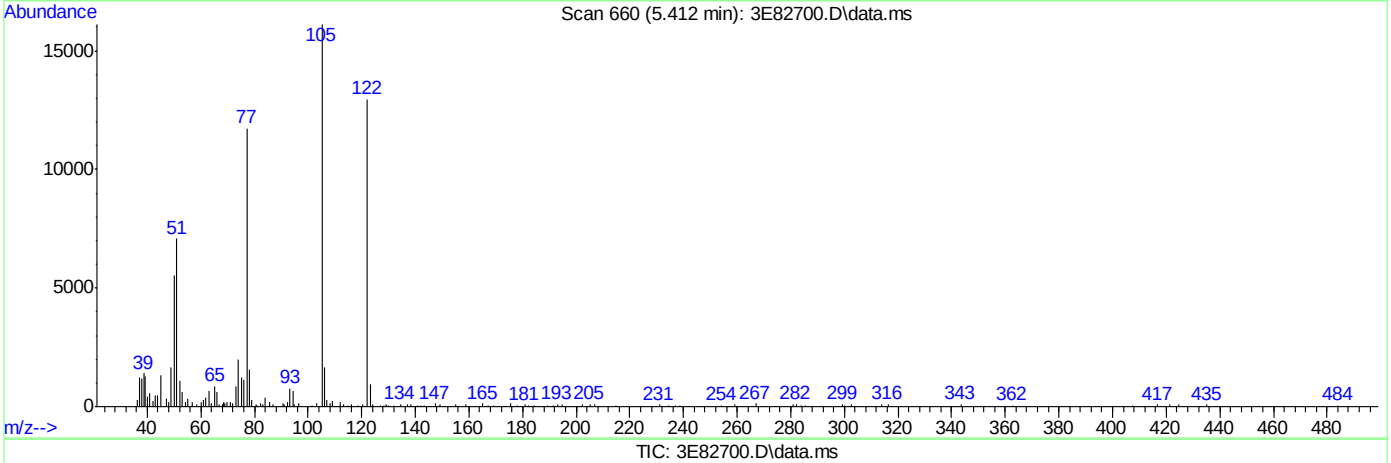
Ion	Exp%	Act%
105.00	100	100
122.00	74.00	78.66
77.05	79.10	64.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82700.D
Acq On : 27 Apr 2016 6:18 pm
Operator : ashleyn
Sample : ic3623-10
Misc : op93161,e3e3623
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:21:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:20:59 2016
QLast Update : Thu Apr 28 09:20:59 2016
Response via : Initial Calibration





TIC: 3E82700.D\data.ms

(31) Benzoic acid (t)

5.412min (-0.027) 7.52ppm m

response 40145

Ion	Exp%	Act%
105.00	100	100
122.00	74.00	80.43
77.05	79.10	72.77
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82701.D
Acq On : 27 Apr 2016 6:44 pm
Operator : ashleyn
Sample : ic3623-5
Misc : op93161,e3e3623
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:23:59 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:22:44 2016
QLast Update : Thu Apr 28 09:22:44 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	191497	40.00	ppm	0.00
24) Naphthalene-d8	5.599	136	747633	40.00	ppm	0.00
47) Acenaphthene-d10	7.631	164	443822	40.00	ppm	0.00
69) Phenanthrene-d10	9.797	188	754904	40.00	ppm	0.00
83) Chrysene-d12	13.975	240	830501	40.00	ppm	-0.01
92) Perylene-d12	16.087	264	779438	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	191497	40.00	ppm	0.00
104) Acenaphthene-d10a	7.631	164	443822	40.00	ppm	0.00
106) Phenanthrene-d10a	9.797	188	754904	40.00	ppm	0.00
110) Chrysene-d12a	13.975	240	830501	40.00	ppm	-0.01
112) Naphthalene-d8a	5.599	136	747633	40.00	ppm	0.00
114) Chrysene-d12b	13.975	240	830501	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.550	112	30398	5.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.32%	
8) Phenol-d5	4.288	99	38311	4.92	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.84%	
25) Nitrobenzene-d5	4.968	82	39872	5.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.74%	
51) 2-Fluorobiphenyl	6.775	172	75663	5.30	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.60%	
73) 2,4,6-Tribromophenol	8.760	330	14205	5.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.78%	
85) Terphenyl-d14	12.359	244	89330	5.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.50%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.031	88	9415	5.89	ppm	90
3) Pyridine	2.384	79	27830	5.56	ppm	98
4) N-Nitrosodimethylamine	2.341	74	13490	4.69	ppm	96
6) Indene	4.727	116	61925	5.55	ppm	98
7) Cumene	3.925	105	84643	5.19	ppm	99
9) Phenol	4.299	94	41937	4.95	ppm	98
10) Aniline	4.288	93	49912	5.13	ppm	87
11) bis(2-Chloroethyl)ether	4.342	93	29241	5.30	ppm	95
12) 2-Chlorophenol	4.385	128	36710	5.41	ppm	99
13) Decane	4.406	43	36893	5.11	ppm	95
14) 1,3-Dichlorobenzene	4.486	146	39855	5.40	ppm	96
15) 1,4-Dichlorobenzene	4.545	146	42843	5.71	ppm	98
16) Benzyl alcohol	4.647	108	21621	5.05	ppm	93
17) 1,2-Dichlorobenzene	4.657	146	38399	5.52	ppm	97
18) Acetophenone	4.845	105	50290	5.46	ppm	97
19) 2-Methylphenol	4.743	108	31556	5.56	ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.743	121	12846	5.61	ppm	91
21) 3&4-Methylphenol	4.866	108	33212	5.50	ppm	97

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82701.D
Acq On : 27 Apr 2016 6:44 pm
Operator : ashleyn
Sample : ic3623-5
Misc : op93161,e3e3623
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:23:59 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:22:44 2016
QLast Update : Thu Apr 28 09:22:44 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.845	70	25330	5.07	ppm		96
23) Hexachloroethane	4.920	201	13788	5.79	ppm		87
26) Nitrobenzene	4.984	77	39696	5.18	ppm		97
27) Quinoline	5.957	129	71291	5.75	ppm		96
28) Isophorone	5.182	82	65037	5.24	ppm		99
29) 2-Nitrophenol	5.256	139	20106	5.05	ppm		81
30) 2,4-Dimethylphenol	5.305	107	35831	5.25	ppm		97
31) Benzoic acid	5.406	105	21984	4.28	ppm		96
32) bis(2-Chloroethoxy)met...	5.374	93	36160	5.44	ppm		99
33) 2,4-Dichlorophenol	5.486	162	28650	5.36	ppm		91
34) 2,6-Dichlorophenol	5.690	162	28121	5.37	ppm		96
35) 1,3,5-Trichlorobenzene	5.256	180	33354	5.38	ppm		99
36) 1,2,4-Trichlorobenzene	5.545	180	32258	5.59	ppm		97
37) 1,2,3-Trichlorobenzene	5.759	180	30618	5.59	ppm		98
38) Naphthalene	5.620	128	110465	5.57	ppm		99
39) 4-Chloroaniline	5.679	127	43690	5.24	ppm		96
40) 2,3-Dichloroaniline	6.674	161	36285	5.70	ppm		96
41) Caprolactam	6.027	55	14236	5.18	ppm		97
42) Hexachlorobutadiene	5.732	225	20379	6.05	ppm		97
43) 4-Chloro-3-methylphenol	6.203	107	30733	5.22	ppm		98
44) 2-Methylnaphthalene	6.342	141	62634	5.51	ppm		93
45) 1-Methylnaphthalene	6.449	141	66014	5.61	ppm		98
46) Dimethylnaphthalene	7.091	156	64844	5.70	ppm		97
48) Hexachlorocyclopentadiene	6.513	237	25741	7.38	ppm		90
49) 2,4,6-Trichlorophenol	6.685	196	20723	5.16	ppm		93
50) 2,4,5-Trichlorophenol	6.738	196	23252	5.42	ppm		98
52) 2-Chloronaphthalene	6.915	162	67577	5.52	ppm		97
53) Biphenyl	6.893	154	87576	5.30	ppm		99
54) 2-Nitroaniline	7.059	65	23150	4.93	ppm		99
55) Dimethylphthalate	7.305	163	78324	5.48	ppm		99
56) Acenaphthylene	7.439	152	110126	5.39	ppm		97
57) 2,6-Dinitrotoluene	7.385	165	17570	5.35	ppm		83
58) 3-Nitroaniline	7.605	138	19021	5.19	ppm		92
59) Acenaphthene	7.674	153	72724	5.37	ppm		93
60) 2,4-Dinitrophenol	7.770	184	8113	5.07	ppm		84
61) 4-Nitrophenol	7.931	109	10537	4.34	ppm	#	28
62) Dibenzofuran	7.915	168	95786	5.42	ppm		88
63) 2,4-Dinitrotoluene	7.941	165	23880	5.21	ppm		90
64) 2,3,4,6-Tetrachlorophenol	8.113	232	18184	5.50	ppm		92
65) Diethylphthalate	8.294	149	82307	5.37	ppm		100
66) Fluorene	8.401	166	79104	5.30	ppm		96
67) 4-Chlorophenyl-phenyle...	8.423	204	38565	5.82	ppm		96
68) 4-Nitroaniline	8.460	138	19338	5.42	ppm		90
70) 4,6-Dinitro-2-methylph...	8.524	198	9662	3.69	ppm		96
71) n-Nitrosodiphenylamine	8.605	169	56379	5.41	ppm		94
72) 1,2-Diphenylhydrazine	8.653	77	78221	4.90	ppm		100
74) 4-Bromophenyl-phenylether	9.145	248	23369	5.44	ppm		97
75) Hexachlorobenzene	9.204	284	29177	5.77	ppm		96
76) Pentachlorophenol	9.541	266	22726	8.37	ppm		94
77) Phenanthrene	9.830	178	115804	5.50	ppm		98

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82701.D
Acq On : 27 Apr 2016 6:44 pm
Operator : ashleyn
Sample : ic3623-5
Misc : op93161,e3e3623
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:23:59 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:22:44 2016
QLast Update : Thu Apr 28 09:22:44 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	9.910	178	115488	5.38 ppm	98
79) Carbazole	10.199	167	102376	5.26 ppm	96
80) Di-n-butylphthalate	10.824	149	127273	4.83 ppm	98
81) Fluoranthene	11.686	202	122702	5.21 ppm	98
82) Octadecane	9.755	57	43825	4.75 ppm	98
84) Pyrene	12.033	202	129954	5.33 ppm	98
86) Butylbenzylphthalate	13.199	149	55724	4.55 ppm	98
87) Butyl stearate	13.376	56	28528	4.32 ppm	91
88) Benzo[a]anthracene	13.959	228	127135	5.46 ppm	99
89) 3,3'-Dichlorobenzidine	13.980	252	48148	5.33 ppm	92
90) Chrysene	14.012	228	122364	5.70 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.167	149	76560	4.89 ppm	99
93) Di-n-octylphthalate	15.157	149	129029	4.15 ppm	97
94) Benzo[b]fluoranthene	15.563	252	133466	5.04 ppm	98
95) Benzo[k]fluoranthene	15.601	252	123290	5.36 ppm	99
96) Benzo[a]pyrene	16.007	252	112674	5.13 ppm	99
97) Indeno[1,2,3-cd]pyrene	17.542	276	105323	5.05 ppm	97
98) Dibenz(a,h)acridine	17.221	279	99143	4.95 ppm	98
99) Dibenz[a,h]anthracene	17.585	278	111077	5.45 ppm	99
100) 7,12-Dimethylbenz(a)an...	15.558	256	57230	4.70 ppm	99
101) Benzo[g,h,i]perylene	17.954	276	107396	5.47 ppm	98

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

7.6.19

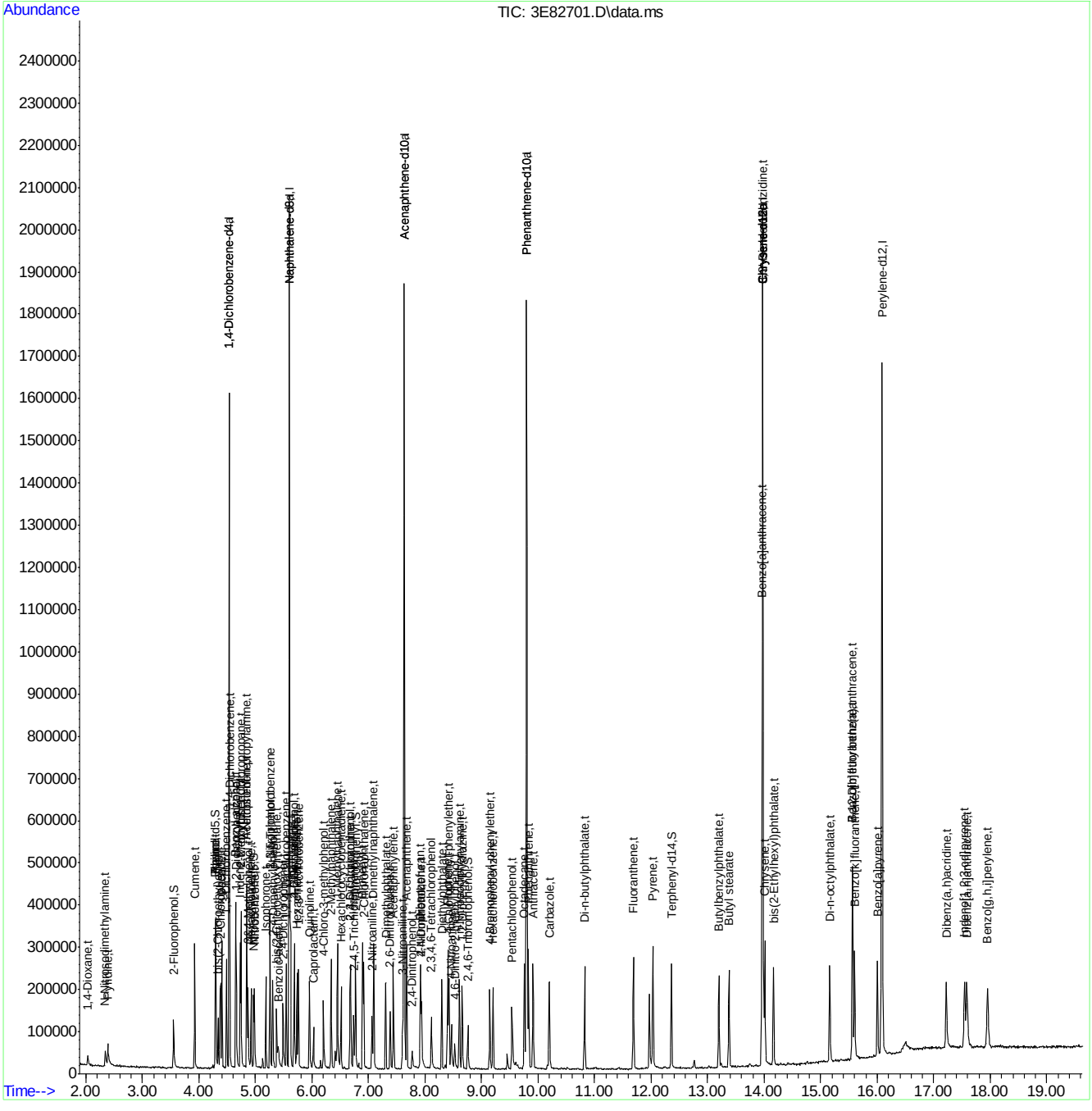
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82701.D
Acq On : 27 Apr 2016 6:44 pm
Operator : ashleyn
Sample : ic3623-5
Misc : op93161,e3e3623
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:23:59 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:22:44 2016
QLast Update : Thu Apr 28 09:22:44 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/28/16 16:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82703.D
Acq On : 27 Apr 2016 7:10 pm
Operator : ashleyn
Sample : ic3623-1
Misc : op93161,e3e3623
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 16:21:11 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:28:02 2016
QLast Update : Thu Apr 28 09:28:02 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	201336	40.00	ppm	0.00
24) Naphthalene-d8	5.599	136	784399	40.00	ppm	0.00
47) Acenaphthene-d10	7.631	164	471658	40.00	ppm	0.00
69) Phenanthrene-d10	9.797	188	809372	40.00	ppm	0.00
83) Chrysene-d12	13.975	240	879982	40.00	ppm	-0.01
92) Perylene-d12	16.087	264	860340	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	201336	40.00	ppm	0.00
104) Acenaphthene-d10a	7.631	164	471658	40.00	ppm	0.00
106) Phenanthrene-d10a	9.797	188	809372	40.00	ppm	0.00
110) Chrysene-d12a	13.975	240	879982	40.00	ppm	-0.01
112) Naphthalene-d8a	5.599	136	784399	40.00	ppm	0.00
114) Chrysene-d12b	13.975	240	879982	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.555	112	5953	0.96	ppm	0.00
Spiked Amount 50.000			Recovery = 1.92%			
8) Phenol-d5	4.294	99	7146	0.88	ppm	0.00
Spiked Amount 50.000			Recovery = 1.76%			
25) Nitrobenzene-d5	4.968	82	8116	1.04	ppm	0.00
Spiked Amount 50.000			Recovery = 2.08%			
51) 2-Fluorobiphenyl	6.775	172	17193	1.11	ppm	0.00
Spiked Amount 50.000			Recovery = 2.22%			
73) 2,4,6-Tribromophenol	8.760	330	2839	0.99	ppm	0.00
Spiked Amount 50.000			Recovery = 1.98%			
85) Terphenyl-d14	12.354	244	19679	1.08	ppm	-0.01
Spiked Amount 50.000			Recovery = 2.16%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.036	88	2343	1.33	ppm		84
3) Pyridine	2.422	79	3481	0.67	ppm		88
4) N-Nitrosodimethylamine	2.379	74	1649	0.56	ppm	#	1
6) Indene	4.727	116	12150	1.01	ppm		99
7) Cumene	3.925	105	18710	1.08	ppm		97
9) Phenol	4.299	94	8156	0.92	ppm		89
10) Aniline	4.294	93	9942	0.97	ppm		86
11) bis(2-Chloroethyl)ether	4.342	93	6644	1.12	ppm		94
12) 2-Chlorophenol	4.385	128	7357	1.01	ppm		93
13) Decane	4.406	43	8247	1.08	ppm		86
14) 1,3-Dichlorobenzene	4.486	146	8687	1.10	ppm		95
15) 1,4-Dichlorobenzene	4.545	146	9617	1.17	ppm		94
16) Benzyl alcohol	4.652	108	4099	0.91	ppm		89
17) 1,2-Dichlorobenzene	4.657	146	7819	1.04	ppm		98
18) Acetophenone	4.845	105	10573	1.07	ppm		85
19) 2-Methylphenol	4.748	108	6283	1.02	ppm		92
20) 2,2'-oxybis(1-Chloropr...	4.743	121	2911	1.18	ppm	#	92
21) 3&4-Methylphenol	4.871	108	6617	1.02	ppm		80

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82703.D
Acq On : 27 Apr 2016 7:10 pm
Operator : ashleyn
Sample : ic3623-1
Misc : op93161,e3e3623
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 16:21:11 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:28:02 2016
QLast Update : Thu Apr 28 09:28:02 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.845	70	5407	1.03	ppm		83
23) Hexachloroethane	4.925	201	3129	1.20	ppm	#	78
26) Nitrobenzene	4.989	77	8613	1.07	ppm		98
27) Quinoline	5.957	129	14762	1.09	ppm		97
28) Isophorone	5.181	82	13387	1.02	ppm		89
29) 2-Nitrophenol	5.256	139	4086	0.98	ppm		74
30) 2,4-Dimethylphenol	5.304	107	7196	1.01	ppm		94
32) bis(2-Chloroethoxy)met...	5.379	93	7418	1.04	ppm		91
33) 2,4-Dichlorophenol	5.497	162	4911	0.87	ppm		98
34) 2,6-Dichlorophenol	5.690	162	6273	1.12	ppm		95
35) 1,3,5-Trichlorobenzene	5.262	180	7293	1.10	ppm		91
36) 1,2,4-Trichlorobenzene	5.545	180	7124	1.14	ppm		86
37) 1,2,3-Trichlorobenzene	5.759	180	7087	1.19	ppm		97
38) Naphthalene	5.620	128	23806	1.11	ppm		96
39) 4-Chloroaniline	5.684	127	8731	0.99	ppm		89
40) 2,3-Dichloroaniline	6.674	161	7806	1.13	ppm		99
41) Caprolactam	6.016	55	3391	1.17	ppm		82
42) Hexachlorobutadiene	5.732	225	4637	1.26	ppm		95
43) 4-Chloro-3-methylphenol	6.208	107	6644	1.05	ppm		94
44) 2-Methylnaphthalene	6.342	141	12709	1.04	ppm		97
45) 1-Methylnaphthalene	6.449	141	13691	1.08	ppm		97
46) Dimethylnaphthalene	7.091	156	13555	1.11	ppm		96
48) Hexachlorocyclopentadiene	6.513	237	2973	0.89	ppm		74
49) 2,4,6-Trichlorophenol	6.684	196	3952	0.91	ppm		95
50) 2,4,5-Trichlorophenol	6.749	196	5441	1.17	ppm		92
52) 2-Chloronaphthalene	6.914	162	13603	1.02	ppm		99
53) Biphenyl	6.893	154	17804	1.00	ppm		92
54) 2-Nitroaniline	7.059	65	5223	1.06	ppm		85
55) Dimethylphthalate	7.300	163	16447	1.06	ppm		94
56) Acenaphthylene	7.439	152	23329	1.05	ppm		97
57) 2,6-Dinitrotoluene	7.385	165	3404	0.97	ppm		85
58) 3-Nitroaniline	7.610	138	3926	1.01	ppm		85
59) Acenaphthene	7.674	153	16005	1.09	ppm		95
60) 2,4-Dinitrophenol	7.786	184	203	0.14	ppm	#	36
61) 4-Nitrophenol	7.952	109	2029m	0.84	ppm		
62) Dibenzofuran	7.915	168	21721	1.13	ppm		74
63) 2,4-Dinitrotoluene	7.941	165	4358	0.90	ppm		68
64) 2,3,4,6-Tetrachlorophenol	8.113	232	3215	0.90	ppm		82
65) Diethylphthalate	8.294	149	16231	0.98	ppm		96
66) Fluorene	8.401	166	17628	1.09	ppm		94
67) 4-Chlorophenyl-phenyle...	8.428	204	8145	1.11	ppm		95
68) 4-Nitroaniline	8.471	138	3455	0.91	ppm		85
70) 4,6-Dinitro-2-methylph...	8.530	198	949	0.38	ppm		95
71) n-Nitrosodiphenylamine	8.610	169	10751	0.95	ppm		98
72) 1,2-Diphenylhydrazine	8.658	77	15273	0.90	ppm		93
74) 4-Bromophenyl-phenylether	9.145	248	5450	1.15	ppm		99
75) Hexachlorobenzene	9.204	284	6748	1.20	ppm		90
76) Pentachlorophenol	9.541	266	3510	1.28	ppm	#	75
77) Phenanthrene	9.829	178	25171	1.08	ppm		98
78) Anthracene	9.910	178	24438	1.04	ppm		94

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82703.D
Acq On : 27 Apr 2016 7:10 pm
Operator : ashleyn
Sample : ic3623-1
Misc : op93161,e3e3623
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 16:21:11 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:28:02 2016
QLast Update : Thu Apr 28 09:28:02 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
79) Carbazole	10.198	167	21762	1.03 ppm	97
80) Di-n-butylphthalate	10.824	149	25922	0.94 ppm	100
81) Fluoranthene	11.691	202	25823	1.02 ppm	95
82) Octadecane	9.755	57	8950	0.93 ppm	98
84) Pyrene	12.033	202	27046	1.03 ppm	99
86) Butylbenzylphthalate	13.199	149	11749	0.93 ppm	91
87) Butyl stearate	13.376	56	5607	0.83 ppm	95
88) Benzo[a]anthracene	13.959	228	28123	1.11 ppm	89
89) 3,3'-Dichlorobenzidine	13.980	252	8797	0.91 ppm	82
90) Chrysene	14.012	228	26639	1.13 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.167	149	14654	0.89 ppm	91
93) Di-n-octylphthalate	15.157	149	25082	0.77 ppm	99
94) Benzo[b]fluoranthene	15.563	252	29043	1.00 ppm	94
95) Benzo[k]fluoranthene	15.606	252	26060	1.00 ppm	88
96) Benzo[a]pyrene	16.002	252	24478	1.01 ppm	98
97) Indeno[1,2,3-cd]pyrene	17.548	276	22582	0.98 ppm	88
98) Dibenz(a,h)acridine	17.227	279	20454	0.93 ppm	97
99) Dibenz[a,h]anthracene	17.590	278	23967	1.05 ppm	97
100) 7,12-Dimethylbenz(a)an...	15.558	256	11743	0.89 ppm	98
101) Benzo[g,h,i]perylene	17.954	276	23216	1.05 ppm	94

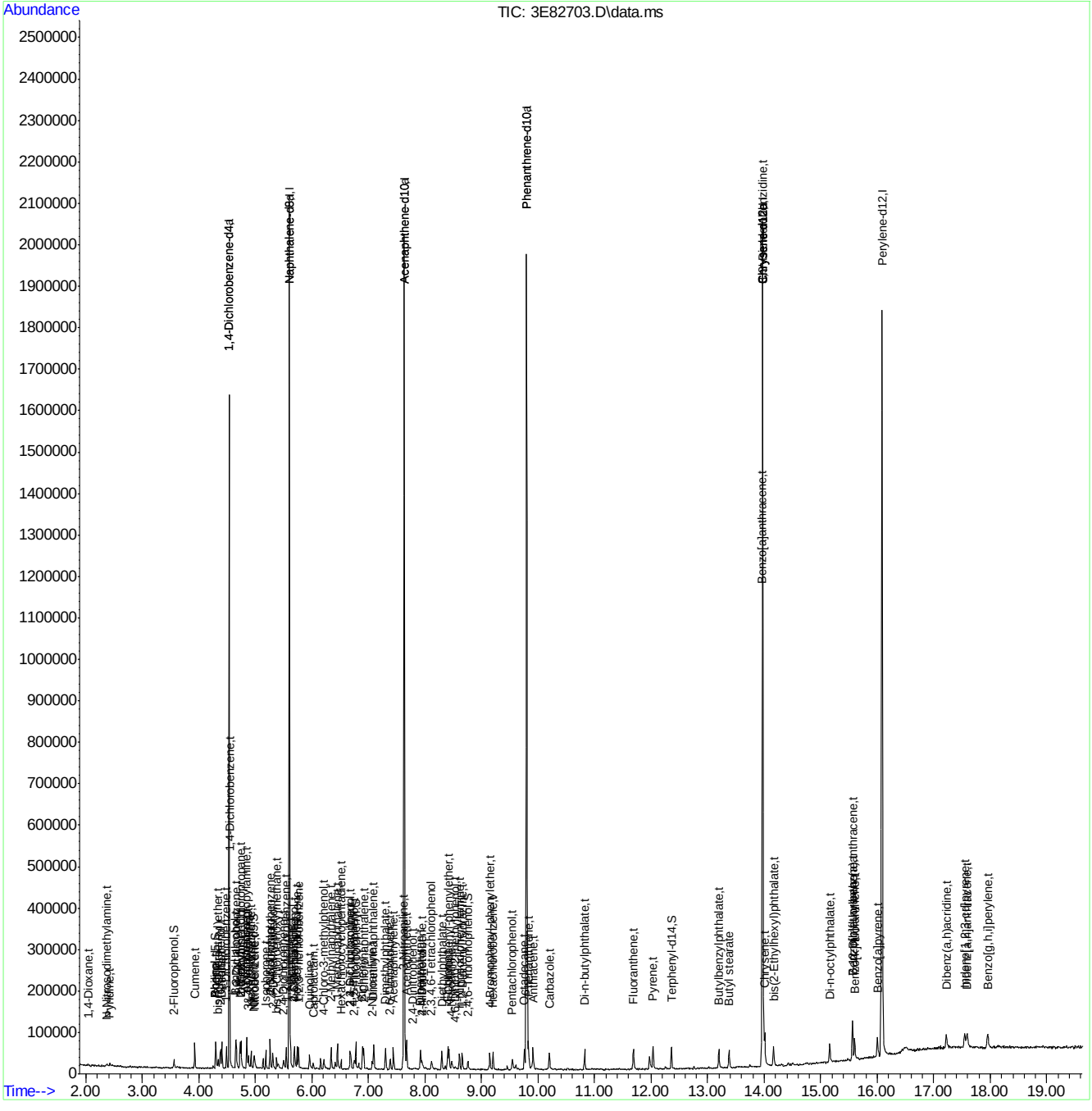
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82703.D
Acq On : 27 Apr 2016 7:10 pm
Operator : ashleyn
Sample : ic3623-1
Misc : op93161,e3e3623
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 16:21:11 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:28:02 2016
QLast Update : Thu Apr 28 09:28:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

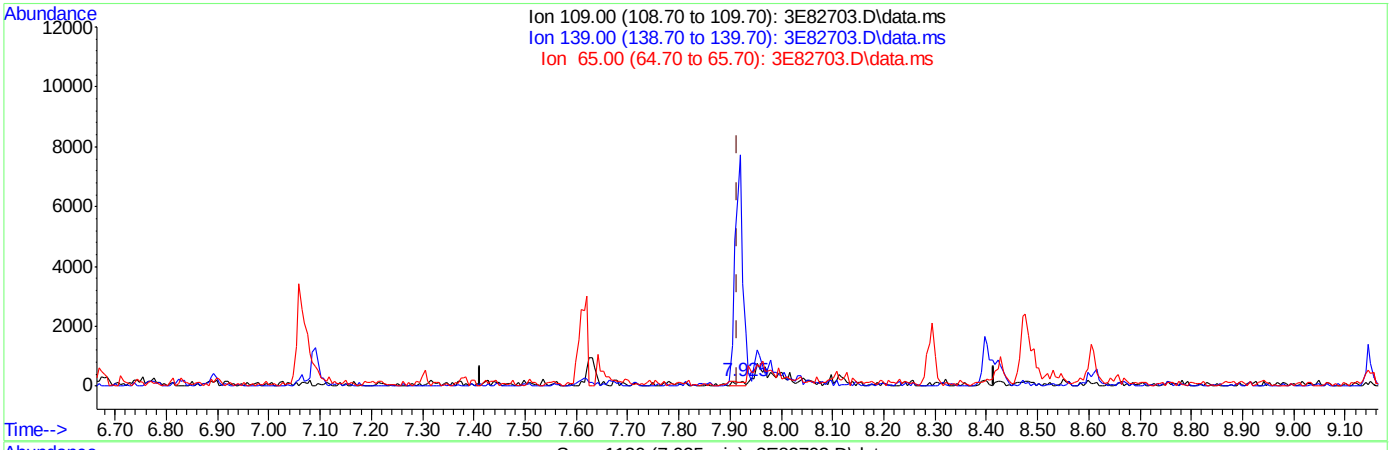
Sample Number:	E3E3623-IC3623	**Method:**	SW846 8270D
Lab FileID:	3E82703.D	**Analyst approved:**	04/28/16 10:43 Ashley Noble
Injection Time:	04/27/16 19:10	**Supervisor approved:**	04/28/16 16:14 Kristi Schollenberger

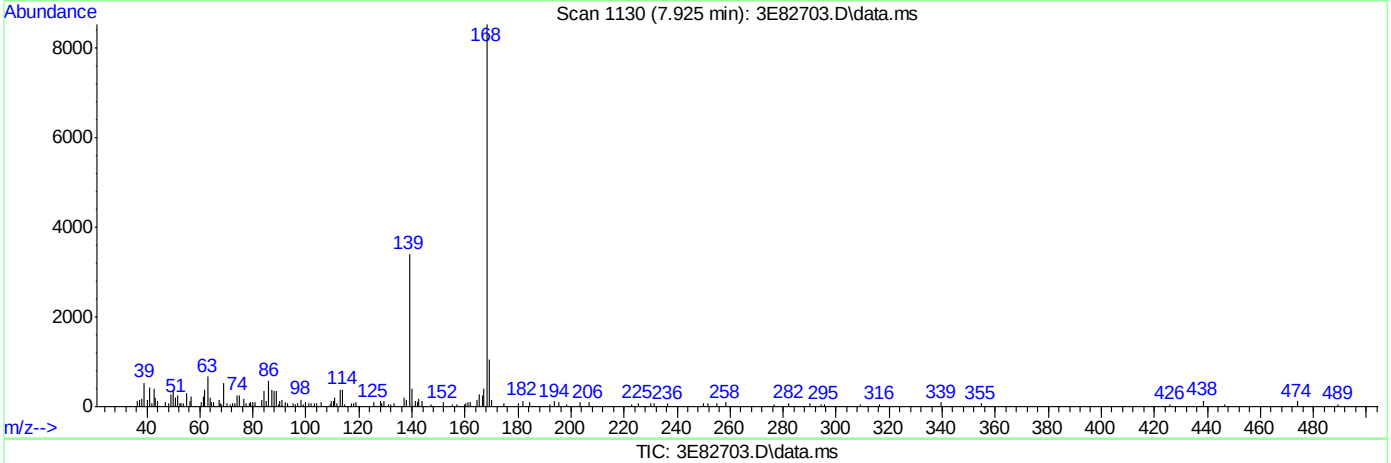
Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Nitrophenol	100-02-7		7.95	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82703.D
Acq On : 27 Apr 2016 7:10 pm
Operator : ashleyn
Sample : ic3623-1
Misc : op93161,e3e3623
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 09:28:13 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:28:02 2016
QLast Update : Thu Apr 28 09:28:02 2016
Response via : Initial Calibration





TIC: 3E82703.D\data.ms

(61) 4-Nitrophenol (t)

7.925min (+0.011) 0.10ppm

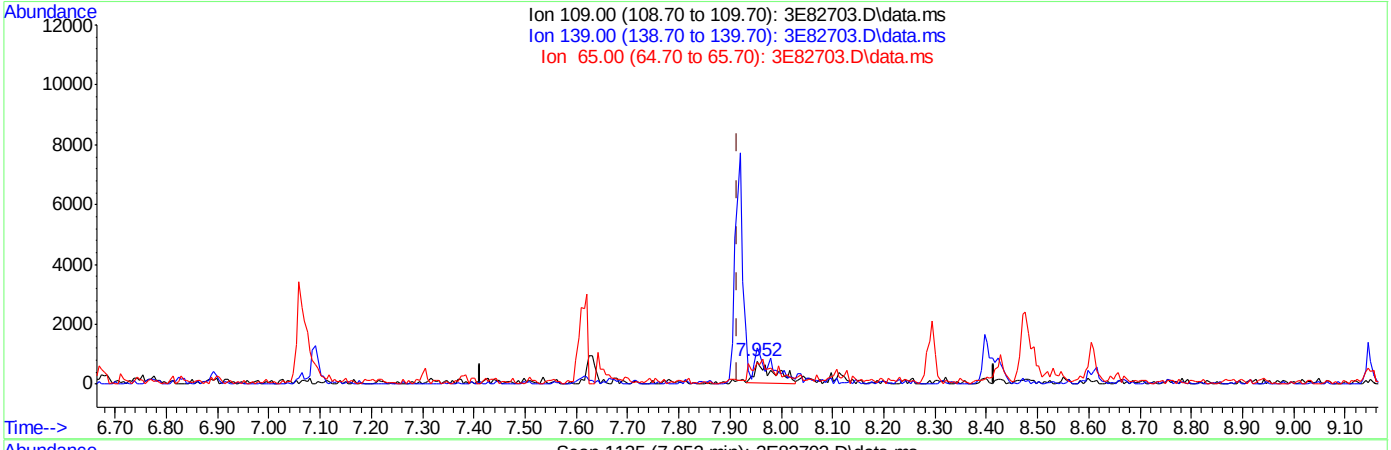
response 231

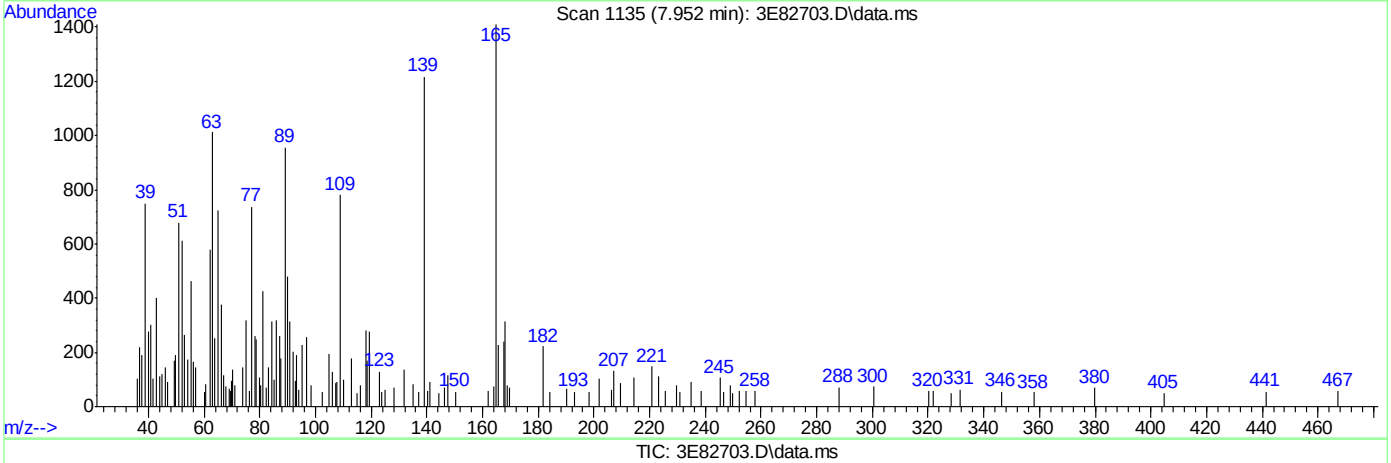
Ion	Exp%	Act%
109.00	100	100
139.00	369.70	1748.75#
65.00	133.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82703.D
Acq On : 27 Apr 2016 7:10 pm
Operator : ashleyn
Sample : ic3623-1
Misc : op93161,e3e3623
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 09:29:07 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:28:02 2016
QLast Update : Thu Apr 28 09:28:02 2016
Response via : Initial Calibration





TIC: 3E82703.D\data.ms

(61) 4-Nitrophenol (t)

7.952min (+0.037) 0.84ppm m

response 2029

Ion	Exp%	Act%
109.00	100	100
139.00	369.70	155.70#
65.00	133.80	92.70#
0.00	0.00	0.00

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82704.D
Acq On : 27 Apr 2016 7:36 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 28 09:54:56 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:51:16 2016
QLast Update : Thu Apr 28 09:51:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	253195	40.00 ppm	0.00
24) Naphthalene-d8	5.599	136	923379	40.00 ppm	0.00
47) Acenaphthene-d10	7.631	164	539347	40.00 ppm	0.00
69) Phenanthrene-d10	9.797	188	888750	40.00 ppm	0.00
83) Chrysene-d12	13.975	240	903049	40.00 ppm	-0.01
92) Perylene-d12	16.087	264	817282	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	253195	40.00 ppm	0.00
104) Acenaphthene-d10a	7.631	164	539347	40.00 ppm	0.00
106) Phenanthrene-d10a	9.797	188	888750	40.00 ppm	0.00
110) Chrysene-d12a	13.975	240	903049	40.00 ppm	-0.01
112) Naphthalene-d8a	5.599	136	923379	40.00 ppm	0.00
114) Chrysene-d12b	13.975	240	903049	40.00 ppm	-0.01

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
109) 1-Chlorooctadecane	0.000	57	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds						Qvalue
9) Phenol	4.299	94	449994	40.65 ppm		83
12) 2-Chlorophenol	4.385	128	425787	46.41 ppm		93
19) 2-Methylphenol	4.743	108	353432	45.55 ppm		97
21) 3&4-Methylphenol	4.866	108	371762	45.59 ppm		97
29) 2-Nitrophenol	5.256	139	223915	45.88 ppm		76
30) 2,4-Dimethylphenol	5.304	107	425084	50.60 ppm		94
31) Benzoic acid	5.438	105	290920	47.01 ppm		98
33) 2,4-Dichlorophenol	5.481	162	333794	50.96 ppm		97
34) 2,6-Dichlorophenol	5.690	162	321020	47.98 ppm		97
43) 4-Chloro-3-methylphenol	6.198	107	341283	45.68 ppm		99
49) 2,4,6-Trichlorophenol	6.679	196	242291	49.54 ppm		99
50) 2,4,5-Trichlorophenol	6.727	196	241668	44.37 ppm		99
60) 2,4-Dinitrophenol	7.765	184	83159	44.06 ppm		87
61) 4-Nitrophenol	7.909	109	121744	42.22 ppm	#	17
64) 2,3,4,6-Tetrachlorophenol	8.113	232	203154	50.32 ppm		93
70) 4,6-Dinitro-2-methylph...	8.524	198	143701	44.41 ppm		95
76) Pentachlorophenol	9.535	266	150808	50.00 ppm		97

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82704.D
Acq On : 27 Apr 2016 7:36 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 28 09:54:56 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:51:16 2016
QLast Update : Thu Apr 28 09:51:16 2016
Response via : Initial Calibration

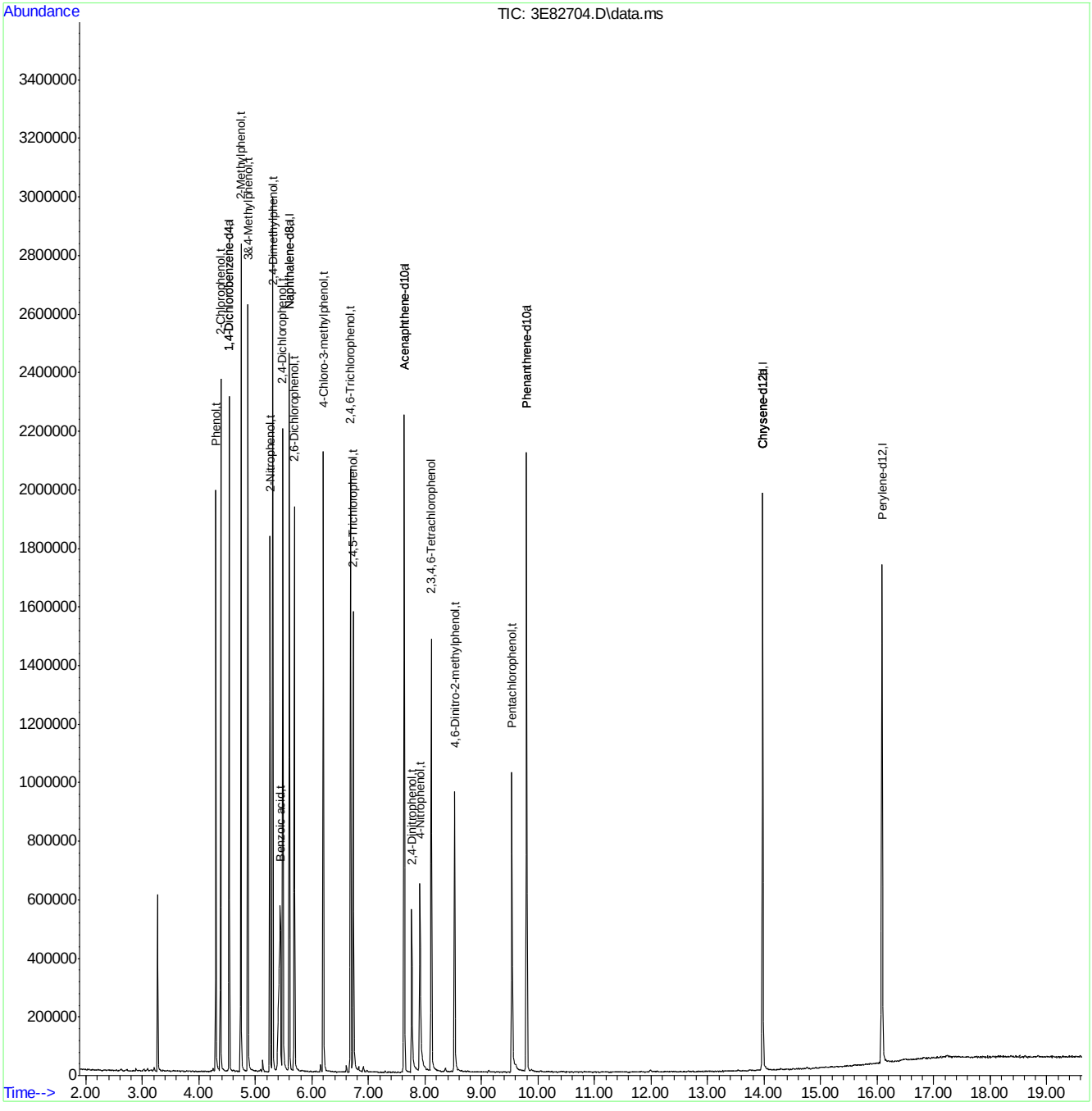
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82704.D
Acq On : 27 Apr 2016 7:36 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 28 09:54:56 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:51:16 2016
QLast Update : Thu Apr 28 09:51:16 2016
Response via : Initial Calibration



M3E3623.M Thu Apr 28 09:55:14 2016 MS3E Page: 3

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82705.D
Acq On : 27 Apr 2016 8:01 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 28 09:56:48 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
QLast Update : Thu Apr 28 09:55:31 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	242808	40.00	ppm	0.00
24) Naphthalene-d8	5.599	136	977222	40.00	ppm	0.00
47) Acenaphthene-d10	7.631	164	578835	40.00	ppm	0.00
69) Phenanthrene-d10	9.797	188	974888	40.00	ppm	0.00
83) Chrysene-d12	13.975	240	940245	40.00	ppm	-0.01
92) Perylene-d12	16.087	264	693572	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	242808	40.00	ppm	0.00
104) Acenaphthene-d10a	7.631	164	578835	40.00	ppm	0.00
106) Phenanthrene-d10a	9.797	188	974888	40.00	ppm	0.00
110) Chrysene-d12a	13.975	240	940245	40.00	ppm	-0.01
112) Naphthalene-d8a	5.599	136	977222	40.00	ppm	0.00
114) Chrysene-d12b	13.975	240	940245	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
3) Pyridine	2.502	79	329134	52.30	ppm	100
10) Aniline	4.299	93	578760	46.94	ppm	74
16) Benzyl alcohol	4.652	108	253354	47.24	ppm	95
39) 4-Chloroaniline	5.679	127	470004	42.70	ppm	98
44) 2-Methylnaphthalene	6.342	141	721109	47.02	ppm	98
54) 2-Nitroaniline	7.064	65	249409	41.02	ppm	95
58) 3-Nitroaniline	7.610	138	209078	43.63	ppm	98
62) Dibenzofuran	7.920	168	1121670	46.86	ppm	82
68) 4-Nitroaniline	8.476	138	191613	41.60	ppm	92
79) Carbazole	10.198	167	1149453	44.83	ppm	98

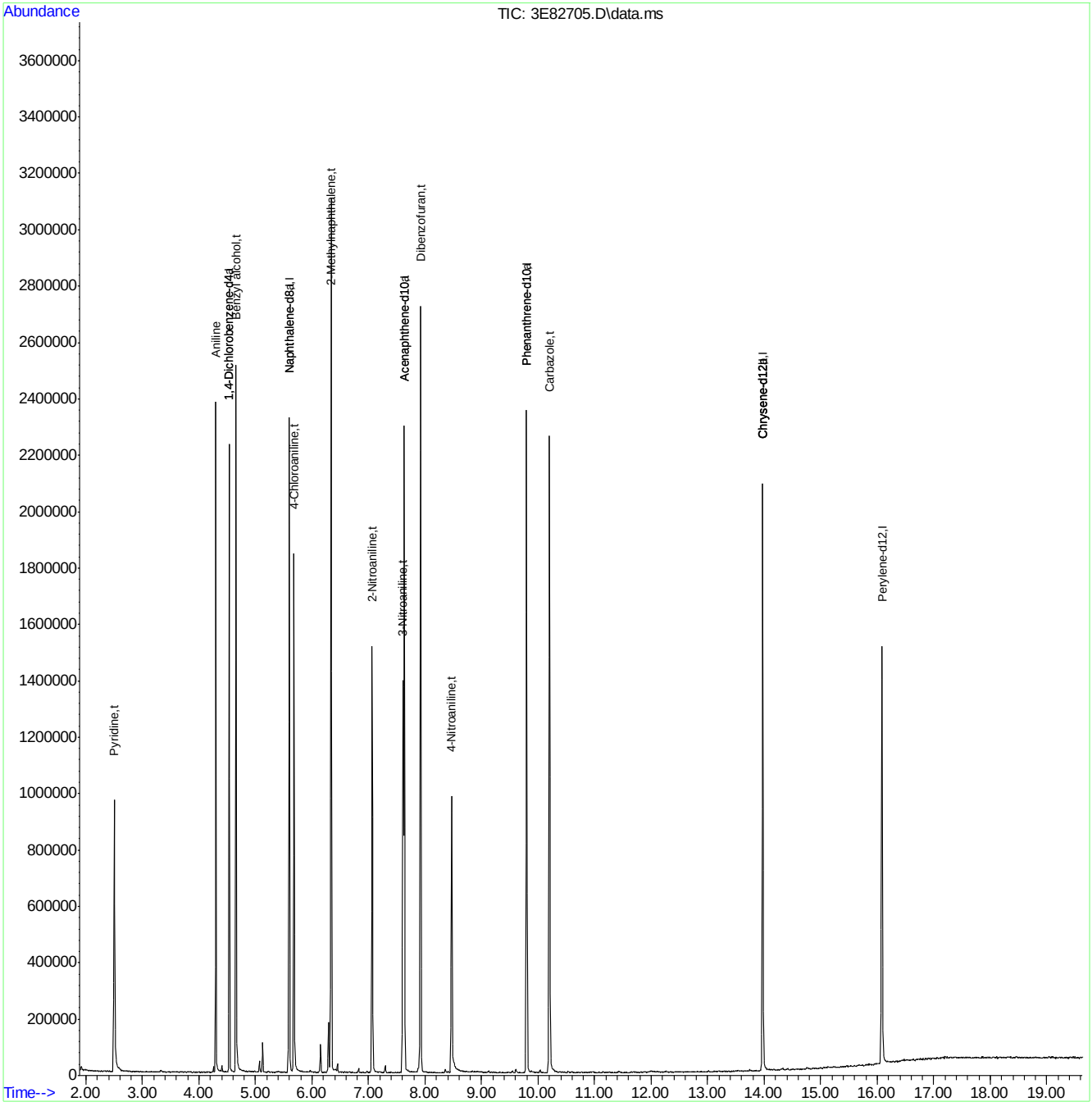
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82705.D
Acq On : 27 Apr 2016 8:01 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 28 09:56:48 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
QLast Update : Thu Apr 28 09:55:31 2016
Response via : Initial Calibration



M3E3623.M Thu Apr 28 09:57:00 2016 MS3E Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82706.D
Acq On : 27 Apr 2016 8:27 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 28 09:59:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
QLast Update : Thu Apr 28 09:55:31 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	294934	40.00 ppm	0.00
24) Naphthalene-d8	5.599	136	1122153	40.00 ppm	0.00
47) Acenaphthene-d10	7.631	164	634276	40.00 ppm	0.00
69) Phenanthrene-d10	9.797	188	1042906	40.00 ppm	0.00
83) Chrysene-d12	13.975	240	1006219	40.00 ppm	-0.01
92) Perylene-d12	16.087	264	917479	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	294934	40.00 ppm	0.00
104) Acenaphthene-d10a	7.631	164	634276	40.00 ppm	0.00
106) Phenanthrene-d10a	9.797	188	1042906	40.00 ppm	0.00
110) Chrysene-d12a	13.975	240	1006219	40.00 ppm	-0.01
112) Naphthalene-d8a	5.599	136	1122153	40.00 ppm	0.00
114) Chrysene-d12b	13.975	240	1006219	40.00 ppm	-0.01

System Monitoring Compounds					
5) 2-Fluorophenol	3.556	112	386028	42.69 ppm	0.00
Spiked Amount 50.000			Recovery	= 85.38%	
8) Phenol-d5	4.288	99	472410	40.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 80.32%	
25) Nitrobenzene-d5	4.968	82	473886	42.23 ppm	0.00
Spiked Amount 50.000			Recovery	= 84.46%	
51) 2-Fluorobiphenyl	6.775	172	956727	45.48 ppm	0.00
Spiked Amount 50.000			Recovery	= 90.96%	
73) 2,4,6-Tribromophenol	8.760	330	158523	43.10 ppm	0.00
Spiked Amount 50.000			Recovery	= 86.20%	
85) Terphenyl-d14	12.359	244	976576	46.23 ppm	0.00
Spiked Amount 50.000			Recovery	= 92.46%	
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	

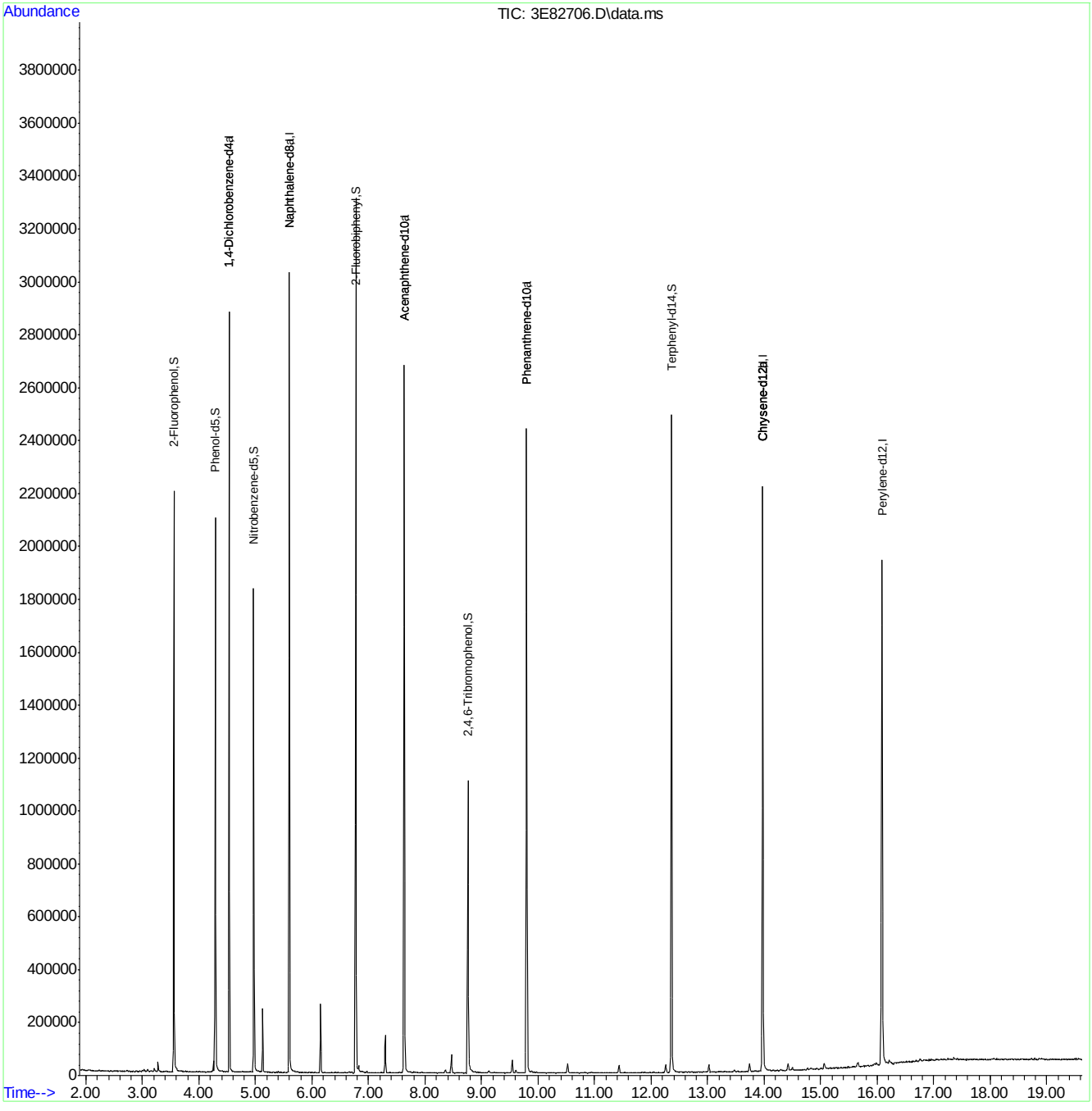
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82706.D
Acq On : 27 Apr 2016 8:27 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 28 09:59:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
QLast Update : Thu Apr 28 09:55:31 2016
Response via : Initial Calibration



M3E3623.M Thu Apr 28 09:59:18 2016 MS3E

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82707.D
Acq On : 27 Apr 2016 8:53 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 28 10:38:48 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:34:49 2016
QLast Update : Thu Apr 28 10:34:49 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	245156	40.00	ppm	0.00
24) Naphthalene-d8	5.599	136	874463	40.00	ppm	0.00
47) Acenaphthene-d10	7.631	164	480121	40.00	ppm	0.00
69) Phenanthrene-d10	9.797	188	773529	40.00	ppm	0.00
83) Chrysene-d12	13.980	240	755367	40.00	ppm	0.00
92) Perylene-d12	16.087	264	606378	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	245156	40.00	ppm	0.00
104) Acenaphthene-d10a	7.631	164	480121	40.00	ppm	0.00
106) Phenanthrene-d10a	9.797	188	773529	40.00	ppm	0.00
110) Chrysene-d12a	13.980	240	755367	40.00	ppm	0.00
112) Naphthalene-d8a	5.599	136	874463	40.00	ppm	0.00
114) Chrysene-d12b	13.980	240	755367	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
4) N-Nitrosodimethylamine	2.357	74	178528	49.37	ppm		98
11) bis(2-Chloroethyl)ether	4.342	93	340477	46.31	ppm		97
14) 1,3-Dichlorobenzene	4.492	146	460725	47.43	ppm		100
15) 1,4-Dichlorobenzene	4.545	146	470686	46.17	ppm		100
17) 1,2-Dichlorobenzene	4.657	146	427142	46.52	ppm		99
20) 2,2'-oxybis(1-Chloropr...	4.743	121	121248	40.25	ppm	#	53
22) n-Nitroso-di-n-propyla...	4.850	70	276418	42.93	ppm		96
23) Hexachloroethane	4.925	201	159719	49.00	ppm		93
26) Nitrobenzene	4.984	77	412334	45.66	ppm		97
28) Isophorone	5.187	82	727904	49.66	ppm		99
32) bis(2-Chloroethoxy)met...	5.379	93	364758	45.71	ppm		97
36) 1,2,4-Trichlorobenzene	5.545	180	348581	49.25	ppm		99
38) Naphthalene	5.620	128	1153907	47.73	ppm		99
42) Hexachlorobutadiene	5.732	225	212044	49.99	ppm		99
48) Hexachlorocyclopentadiene	6.513	237	175970	47.49	ppm		98
52) 2-Chloronaphthalene	6.914	162	656450	48.24	ppm		99
55) Dimethylphthalate	7.310	163	754000	47.30	ppm		99
56) Acenaphthylene	7.444	152	1039435	45.76	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82707.D
Acq On : 27 Apr 2016 8:53 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 28 10:38:48 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:34:49 2016
QLast Update : Thu Apr 28 10:34:49 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
57) 2,6-Dinitrotoluene	7.390	165	168140	47.11 ppm	92
59) Acenaphthene	7.679	153	704636	46.72 ppm	96
63) 2,4-Dinitrotoluene	7.941	165	209749	42.96 ppm	72
65) Diethylphthalate	8.300	149	753475	45.00 ppm	99
66) Fluorene	8.407	166	742158	44.65 ppm	99
67) 4-Chlorophenyl-phenyle...	8.428	204	348265	45.95 ppm	95
71) n-Nitrosodiphenylamine	8.610	169	485872	45.22 ppm	96
72) 1,2-Diphenylhydrazine	8.658	77	744267	46.50 ppm	99
74) 4-Bromophenyl-phenylether	9.150	248	222198	48.32 ppm	94
75) Hexachlorobenzene	9.209	284	256330	46.48 ppm	99
77) Phenanthrene	9.835	178	1012118	45.10 ppm	100
78) Anthracene	9.915	178	991047	44.08 ppm	99
80) Di-n-butylphthalate	10.830	149	1190567	45.31 ppm	99
81) Fluoranthene	11.691	202	1077282	44.26 ppm	99
84) Pyrene	12.038	202	1092155	48.30 ppm	99
86) Butylbenzylphthalate	13.204	149	495725	45.97 ppm	99
88) Benzo[a]anthracene	13.964	228	990248	44.85 ppm	98
90) Chrysene	14.023	228	891994	43.30 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.167	149	631657	45.52 ppm	98
93) Di-n-octylphthalate	15.162	149	1023328	42.07 ppm	98
94) Benzo[b]fluoranthene	15.569	252	885751	43.21 ppm	93
95) Benzo[k]fluoranthene	15.611	252	856958	46.84 ppm	99
96) Benzo[a]pyrene	16.012	252	790344	46.18 ppm	98
97) Indeno[1,2,3-cd]pyrene	17.558	276	787469	48.30 ppm	98
99) Dibenz[a,h]anthracene	17.596	278	761946	47.04 ppm	98
101) Benzo[g,h,i]perylene	17.965	276	722162	45.98 ppm	99

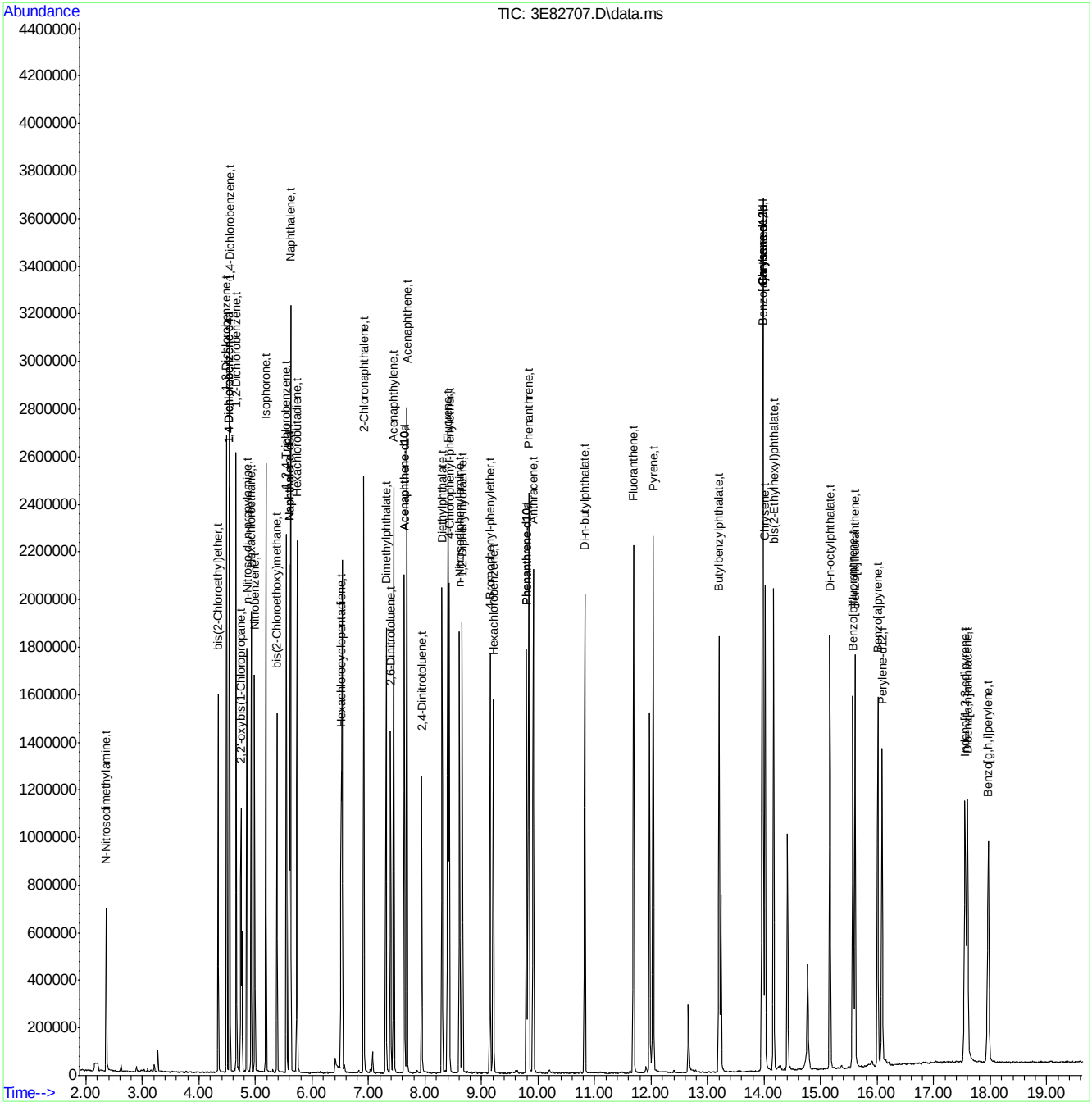
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82707.D
Acq On : 27 Apr 2016 8:53 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 28 10:38:48 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 10:34:49 2016
QLast Update : Thu Apr 28 10:34:49 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82708.D
Acq On : 27 Apr 2016 9:18 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 28 10:04:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
QLast Update : Thu Apr 28 09:55:31 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	235746	40.00 ppm	0.00
24) Naphthalene-d8	5.599	136	889763	40.00 ppm	0.00
47) Acenaphthene-d10	7.631	164	490972	40.00 ppm	0.00
69) Phenanthrene-d10	9.797	188	822120	40.00 ppm	0.00
83) Chrysene-d12	13.975	240	835477	40.00 ppm	-0.01
92) Perylene-d12	16.087	264	680722	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	235746	40.00 ppm	0.00
104) Acenaphthene-d10a	7.631	164	490972	40.00 ppm	0.00
106) Phenanthrene-d10a	9.797	188	822120	40.00 ppm	0.00
110) Chrysene-d12a	13.975	240	835477	40.00 ppm	-0.01
112) Naphthalene-d8a	5.599	136	889763	40.00 ppm	0.00
114) Chrysene-d12b	13.975	240	835477	40.00 ppm	-0.01

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
109) 1-Chlorooctadecane	0.000	57	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
2) 1,4-Dioxane	2.053	88	105118	48.92 ppm	98
6) Indene	4.727	116	704707	50.11 ppm	98
7) Cumene	3.930	105	1012036	49.20 ppm	98
13) Decane	4.411	43	442492	48.94 ppm	99
18) Acetophenone	4.845	105	526101	44.99 ppm	98
27) Quinoline	5.957	129	744147	48.09 ppm	98
40) 2,3-Dichloroaniline	6.674	161	326418	41.03 ppm	97
41) Caprolactam	6.037	55	139338	41.36 ppm	98
45) 1-Methylnaphthalene	6.454	141	681355	46.78 ppm	99
46) Dimethylnaphthalene	7.091	156	659227	46.76 ppm	99
53) Biphenyl	6.898	154	901152	48.56 ppm	99
82) Octadecane	9.760	57	463250	47.70 ppm	99
100) 7,12-Dimethylbenz(a)an...	15.563	256	262491	25.59 ppm	98

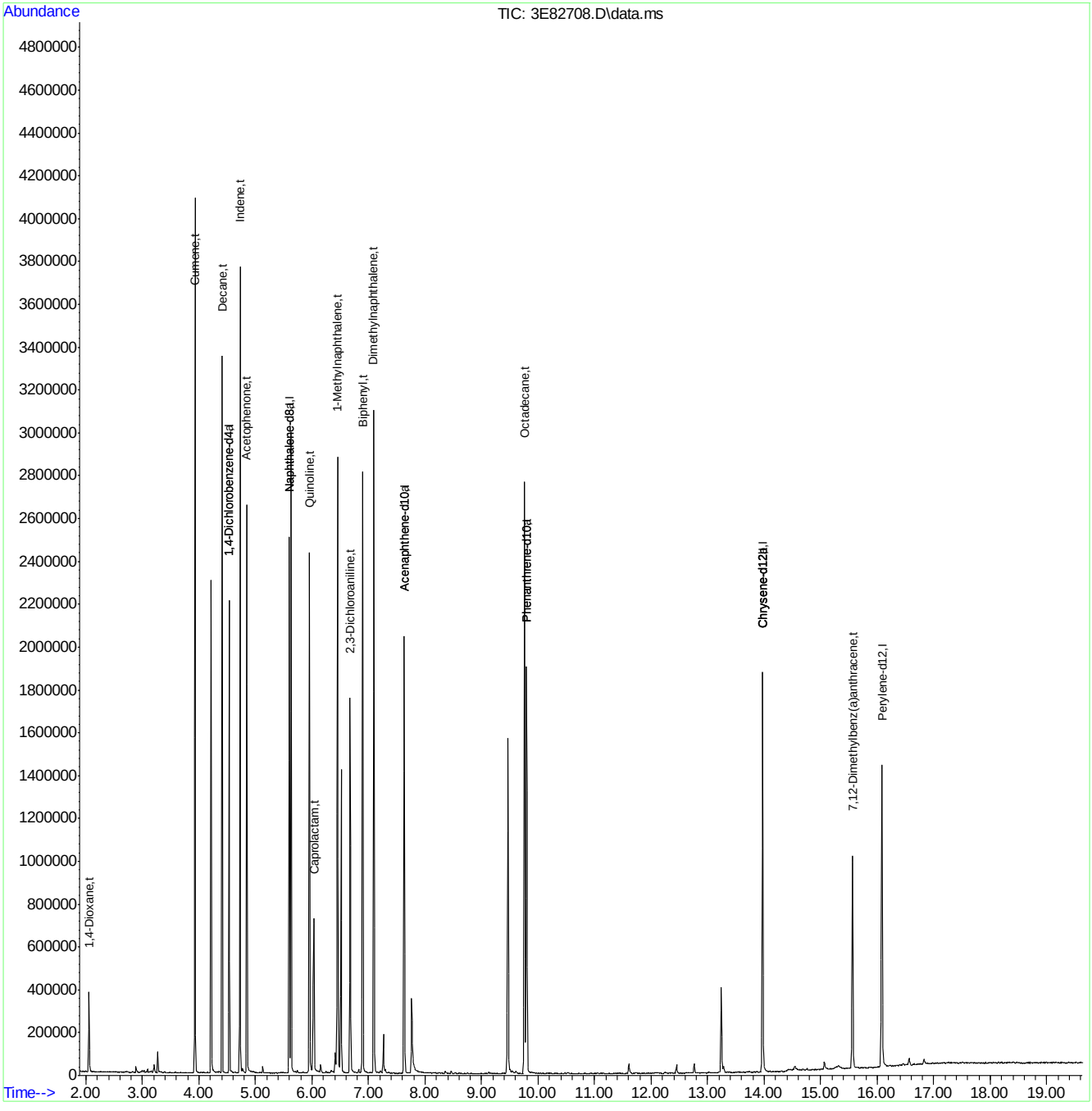
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82708.D
Acq On : 27 Apr 2016 9:18 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 28 10:04:31 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
QLast Update : Thu Apr 28 09:55:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82709.D
Acq On : 27 Apr 2016 9:44 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 28 10:06:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
QLast Update : Thu Apr 28 09:55:31 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.534	152	183200	40.00	ppm	0.00
24) Naphthalene-d8	5.599	136	721250	40.00	ppm	0.00
47) Acenaphthene-d10	7.631	164	436095	40.00	ppm	0.00
69) Phenanthrene-d10	9.797	188	765816	40.00	ppm	0.00
83) Chrysene-d12	13.975	240	856539	40.00	ppm	-0.01
92) Perylene-d12	16.087	264	840907	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.534	152	183200	40.00	ppm	0.00
104) Acenaphthene-d10a	7.631	164	436095	40.00	ppm	0.00
106) Phenanthrene-d10a	9.797	188	765816	40.00	ppm	0.00
110) Chrysene-d12a	13.975	240	856539	40.00	ppm	-0.01
112) Naphthalene-d8a	5.599	136	721250	40.00	ppm	0.00
114) Chrysene-d12b	13.975	240	856539	40.00	ppm	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
89) 3,3'-Dichlorobenzidine	13.980	252	452494	48.60	ppm	98

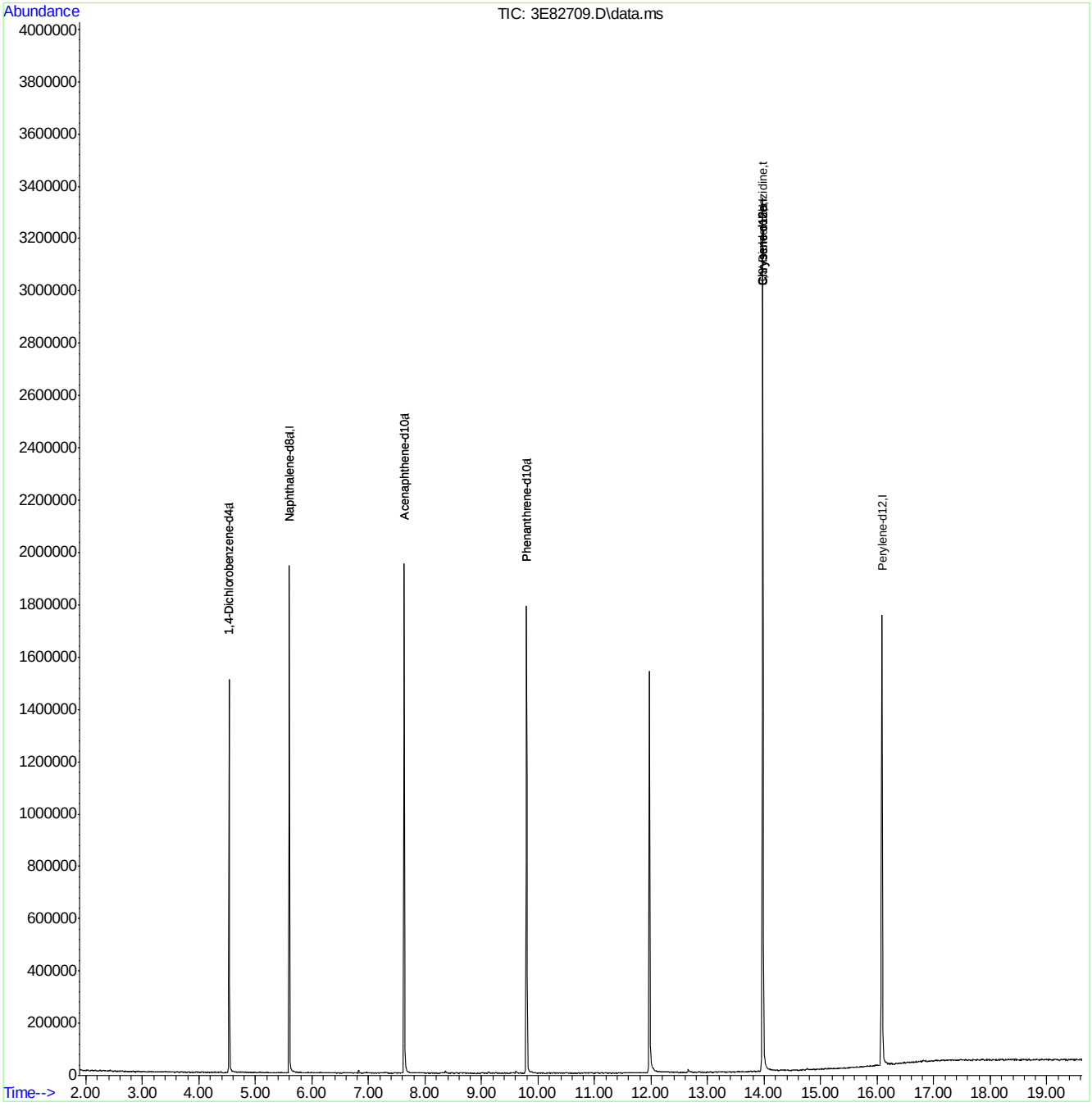
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3623\
Data File : 3E82709.D
Acq On : 27 Apr 2016 9:44 pm
Operator : ashleyn
Sample : icv3623-50
Misc : op93161,e3e3623
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 28 10:06:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Apr 28 09:55:31 2016
QLast Update : Thu Apr 28 09:55:31 2016
Response via : Initial Calibration



M3E3623.M Thu Apr 28 10:06:17 2016 MS3E

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82880.D
Acq On : 4 May 2016 2:38 pm
Operator : ashleyn
Sample : cc3623-25
Misc : op93477,e3e3634
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 15:37:05 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MTue May 03 11:07:38 2016
QLast Update : Tue May 03 11:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.486	152	161619	40.00	ppm	-0.05
24) Naphthalene-d8	5.545	136	603674	40.00	ppm	-0.06
47) Acenaphthene-d10	7.567	164	348457	40.00	ppm	-0.01
69) Phenanthrene-d10	9.728	188	604078	40.00	ppm	-0.03
83) Chrysene-d12	13.905	240	675419	40.00	ppm	-0.03
92) Perylene-d12	16.018	264	521043	40.00	ppm	-0.07
102) 1,4-Dichlorobenzene-d4a	4.486	152	161619	40.00	ppm	-0.05
104) Acenaphthene-d10a	7.567	164	348457	40.00	ppm	-0.08
106) Phenanthrene-d10a	9.728	188	604078	40.00	ppm	-0.03
108) Chrysene-d12a	13.905	240	675419	40.00	ppm	-0.09
110) Naphthalene-d8a	5.545	136	603674	40.00	ppm	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	3.513	112	117240	23.66	ppm	-0.04
Spiked Amount 50.000			Recovery = 47.32%			
8) Phenol-d5	4.251	99	147352	22.86	ppm	-0.04
Spiked Amount 50.000			Recovery = 45.72%			
25) Nitrobenzene-d5	4.925	82	149856	24.82	ppm	-0.05
Spiked Amount 50.000			Recovery = 49.64%			
51) 2-Fluorobiphenyl	6.711	172	296751	25.68	ppm	-0.01
Spiked Amount 50.000			Recovery = 51.36%			
73) 2,4,6-Tribromophenol	8.696	330	59085	27.73	ppm	-0.03
Spiked Amount 50.000			Recovery = 55.46%			
85) Terphenyl-d14	12.284	244	359202	25.33	ppm	-0.03
Spiked Amount 50.000			Recovery = 50.66%			

Target Compounds							Qvalue
2) 1,4-Dioxane	1.967	88	35755	24.26	ppm		91
3) Pyridine	2.320	79	93537	22.33	ppm		93
4) N-Nitrosodimethylamine	2.283	74	52937	22.21	ppm		90
6) Indene	4.679	116	220710	22.89	ppm		98
7) Cumene	3.882	105	329741	23.38	ppm		99
9) Phenol	4.262	94	168055	23.78	ppm		86
10) Aniline	4.245	93	176416	21.50	ppm	#	57
11) bis(2-Chloroethyl)ether	4.299	93	110474	22.79	ppm		96
12) 2-Chlorophenol	4.342	128	140404	23.97	ppm		98
13) Decane	4.363	43	130619	21.07	ppm		99
14) 1,3-Dichlorobenzene	4.443	146	157840	24.65	ppm		99
15) 1,4-Dichlorobenzene	4.502	146	160400	23.87	ppm		99
16) Benzyl alcohol	4.604	108	84347	23.63	ppm		86
17) 1,2-Dichlorobenzene	4.615	146	148014	24.45	ppm		96
18) Acetophenone	4.802	105	193469	24.13	ppm		99
19) 2-Methylphenol	4.705	108	114861	23.19	ppm		98
20) 2,2'-oxybis(1-Chloropr...	4.700	121	47161	23.75	ppm	#	63
21) 3&4-Methylphenol	4.828	108	122465	23.53	ppm		99
22) n-Nitroso-di-n-propyla...	4.802	70	98748	23.26	ppm		90
23) Hexachloroethane	4.871	201	56255	26.18	ppm		93
26) Nitrobenzene	4.935	77	151983	24.38	ppm		94
27) Quinoline	5.904	129	256428	24.42	ppm		97
28) Isophorone	5.139	82	239017	23.62	ppm		97

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82880.D
Acq On : 4 May 2016 2:38 pm
Operator : ashleyn
Sample : cc3623-25
Misc : op93477,e3e3634
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 15:37:05 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MTue May 03 11:07:38 2016
QLast Update : Tue May 03 11:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 2-Nitrophenol	5.208	139	79581	24.94	ppm		74
30) 2,4-Dimethylphenol	5.256	107	142856	26.01	ppm		96
31) Benzoic acid	5.379	105	96140	23.76	ppm		97
32) bis(2-Chloroethoxy)met...	5.326	93	128420	23.31	ppm		98
33) 2,4-Dichlorophenol	5.438	162	112810	26.34	ppm		99
34) 2,6-Dichlorophenol	5.636	162	114070	26.08	ppm		97
35) 1,3,5-Trichlorobenzene	5.208	180	139825	27.01	ppm		99
36) 1,2,4-Trichlorobenzene	5.492	180	129051	26.41	ppm		97
37) 1,2,3-Trichlorobenzene	5.706	180	123743	26.30	ppm		99
38) Naphthalene	5.567	128	399780	23.95	ppm		96
39) 4-Chloroaniline	5.631	127	165116	24.28	ppm		99
40) 2,3-Dichloroaniline	6.610	161	138302	25.62	ppm		99
41) Caprolactam	5.994	55	51658	22.60	ppm		95
42) Hexachlorobutadiene	5.679	225	81475	27.82	ppm		99
43) 4-Chloro-3-methylphenol	6.155	107	120573	24.68	ppm		99
44) 2-Methylnaphthalene	6.283	141	246482	26.02	ppm		99
45) 1-Methylnaphthalene	6.390	141	250307	25.33	ppm		98
46) Dimethylnaphthalene	7.027	156	241959	25.30	ppm		97
48) Hexachlorocyclopentadiene	6.449	237	148019	54.08	ppm		98
49) 2,4,6-Trichlorophenol	6.626	196	85602	27.09	ppm		96
50) 2,4,5-Trichlorophenol	6.684	196	93049	26.44	ppm		97
52) 2-Chloronaphthalene	6.850	162	248707	25.18	ppm		97
53) Biphenyl	6.834	154	332746	25.26	ppm		99
54) 2-Nitroaniline	7.000	65	91234	24.92	ppm		98
55) Dimethylphthalate	7.241	163	298233	25.78	ppm		99
56) Acenaphthylene	7.374	152	409647	24.85	ppm		98
57) 2,6-Dinitrotoluene	7.326	165	67646	26.11	ppm		96
58) 3-Nitroaniline	7.546	138	71896	24.92	ppm		98
59) Acenaphthene	7.610	153	275931	25.21	ppm		97
60) 2,4-Dinitrophenol	7.711	184	68873	54.37	ppm		89
61) 4-Nitrophenol	7.867	109	53678	28.81	ppm	#	7
62) Dibenzofuran	7.850	168	363530	25.23	ppm		89
63) 2,4-Dinitrotoluene	7.877	165	94779	26.75	ppm		60
64) 2,3,4,6-Tetrachlorophenol	8.048	232	68607	26.30	ppm		94
65) Diethylphthalate	8.230	149	310444	25.54	ppm		99
66) Fluorene	8.337	166	302752	25.10	ppm		95
67) 4-Chlorophenyl-phenyle...	8.359	204	147907	26.89	ppm		95
68) 4-Nitroaniline	8.407	138	70876	25.56	ppm		86
70) 4,6-Dinitro-2-methylph...	8.466	198	54474	26.09	ppm		97
71) n-Nitrosodiphenylamine	8.540	169	209109	24.92	ppm		97
72) 1,2-Diphenylhydrazine	8.589	77	299324	23.95	ppm		98
74) 4-Bromophenyl-phenylether	9.075	248	92593	25.78	ppm		99
75) Hexachlorobenzene	9.139	284	115526	26.82	ppm		98
76) Pentachlorophenol	9.471	266	100177	48.86	ppm		96
77) Phenanthrene	9.760	178	420426	23.99	ppm		98
78) Anthracene	9.840	178	427365	24.34	ppm		98
79) Carbazole	10.129	167	390317	24.57	ppm		99
80) Di-n-butylphthalate	10.755	149	506077	24.67	ppm		97
81) Fluoranthene	11.616	202	485489	25.54	ppm		97
82) Octadecane	9.685	57	161265	22.60	ppm		95

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82880.D
Acq On : 4 May 2016 2:38 pm
Operator : ashleyn
Sample : cc3623-25
Misc : op93477,e3e3634
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 15:37:05 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MTue May 03 11:07:38 2016
QLast Update : Tue May 03 11:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
84) Pyrene	11.964	202	502292	24.84 ppm	99
86) Butylbenzylphthalate	13.130	149	234567	24.33 ppm	98
87) Butyl stearate	13.306	56	112518	22.23 ppm	93
88) Benzo[a]anthracene	13.889	228	473313	23.98 ppm	99
89) 3,3'-Dichlorobenzidine	13.905	252	193949	26.42 ppm	98
90) Chrysene	13.943	228	445525	24.18 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.092	149	286722	23.11 ppm	98
93) Di-n-octylphthalate	15.087	149	499741	25.21 ppm	98
94) Benzo[b]fluoranthene	15.499	252	478778	27.18 ppm	96
95) Benzo[k]fluoranthene	15.536	252	412628	26.25 ppm	98
96) Benzo[a]pyrene	15.938	252	383681	26.09 ppm	98
97) Indeno[1,2,3-cd]pyrene	17.467	276	341947	24.41 ppm	96
98) Dibenz(a,h)acridine	17.146	279	309831	23.49 ppm	100
99) Dibenz[a,h]anthracene	17.505	278	348559	25.04 ppm	98
100) 7,12-Dimethylbenz(a)an...	15.494	256	220919	28.14 ppm	99
101) Benzo[g,h,i]perylene	17.863	276	348976	25.86 ppm	98

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

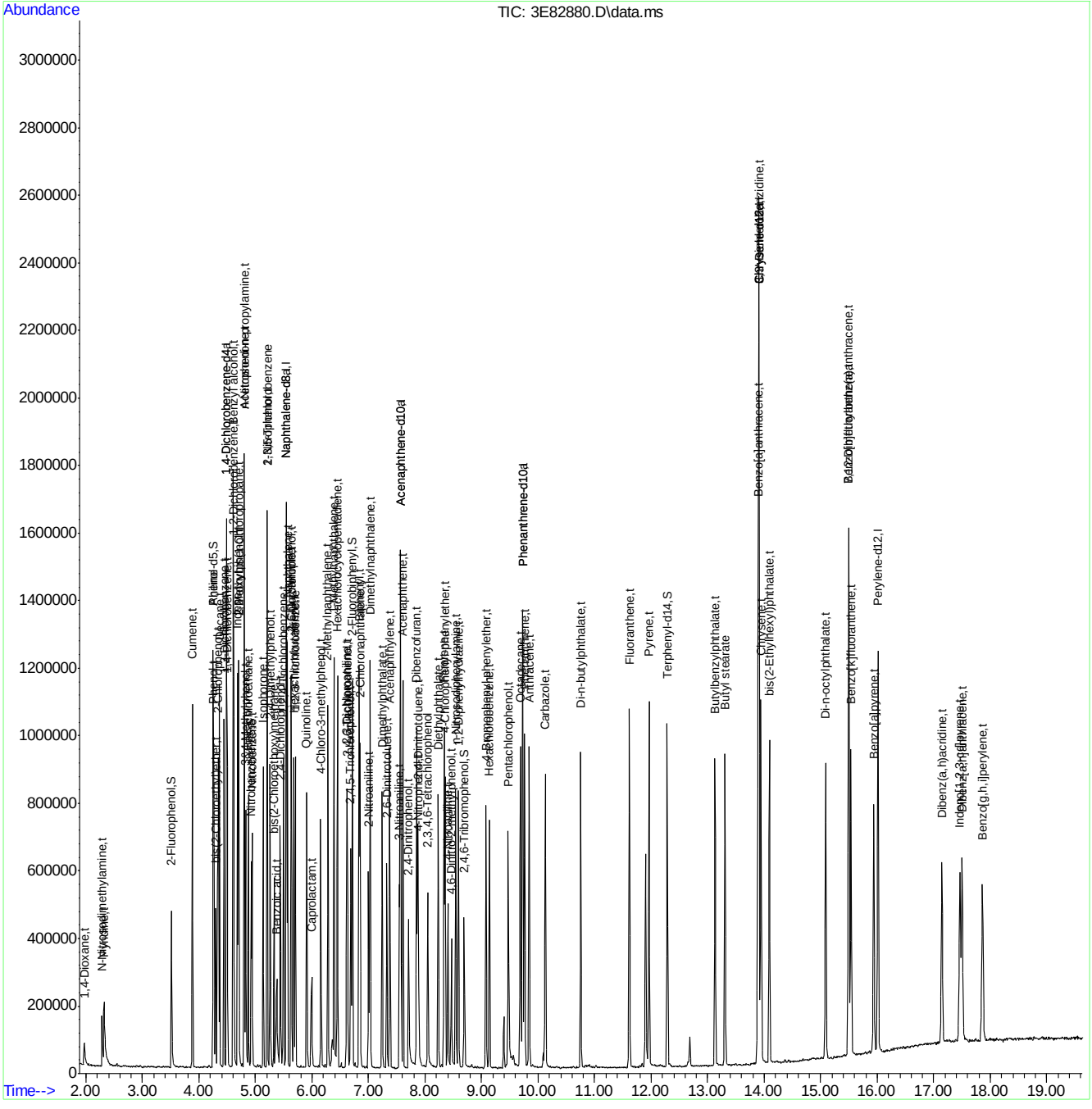
7.6.27

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82880.D
Acq On : 4 May 2016 2:38 pm
Operator : ashleyn
Sample : cc3623-25
Misc : op93477,e3e3634
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 15:37:05 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MTue May 03 11:07:38 2016
QLast Update : Tue May 03 11:07:38 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82881.D
Acq On : 4 May 2016 3:05 pm
Operator : ashleyn
Sample : cc3621-25
Misc : op93477,e3e3634
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 15:37:41 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MTue May 03 11:07:38 2016
QLast Update : Tue May 03 11:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.486	152	172437	40.00	ppm	-0.05
24) Naphthalene-d8	5.545	136	673915	40.00	ppm	-0.06
47) Acenaphthene-d10	7.567	164	392157	40.00	ppm	-0.01
69) Phenanthrene-d10	9.723	188	729188	40.00	ppm	-0.03
83) Chrysene-d12	13.900	240	823173	40.00	ppm	-0.03
92) Perylene-d12	16.018	264	730861	40.00	ppm	-0.07
102) 1,4-Dichlorobenzene-d4a	4.486	152	172437	40.00	ppm	-0.05
104) Acenaphthene-d10a	7.567	164	392157	40.00	ppm	-0.07
106) Phenanthrene-d10a	9.723	188	729188	40.00	ppm	-0.03
108) Chrysene-d12a	13.900	240	823173	40.00	ppm	-0.09
110) Naphthalene-d8a	5.545	136	673915	40.00	ppm	-0.06

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds							Qvalue
103) Benzaldehyde	4.165	105	98570	21.09	ppm	#	84
105) 1,2,4,5-Tetrachloroben...	6.471	216	144403	29.74	ppm		99
107) Atrazine	9.396	215	55696	30.01	ppm	#	88
109) benzidine	11.899	184	256182	25.28	ppm		85
111) Hydroquinone	6.000	110	121058	26.13	ppm		67

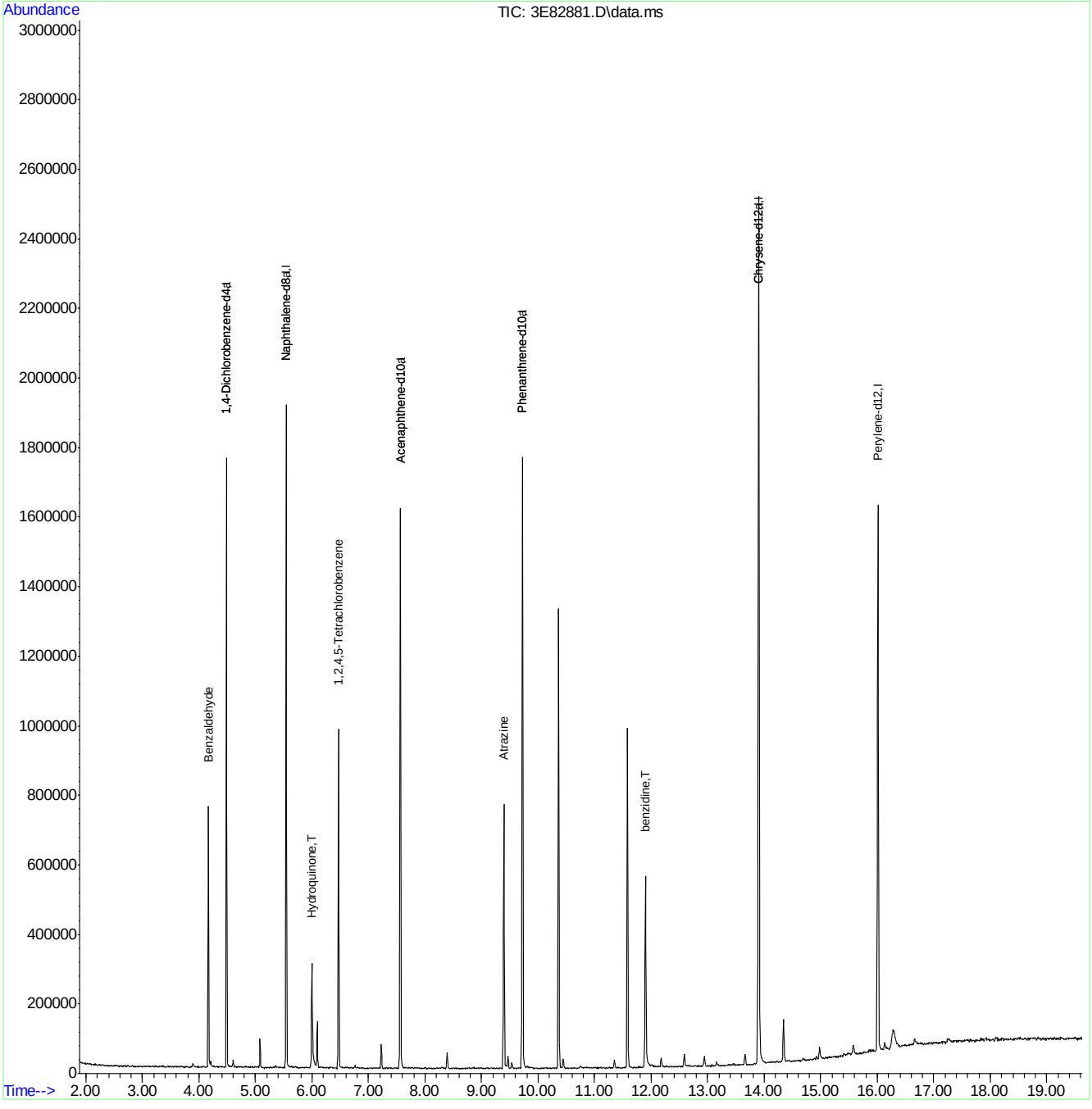
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3634\
Data File : 3E82881.D
Acq On : 4 May 2016 3:05 pm
Operator : ashleyn
Sample : cc3621-25
Misc : op93477,e3e3634
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 15:37:41 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MTue May 03 11:07:38 2016
QLast Update : Tue May 03 11:07:38 2016
Response via : Initial Calibration



M3E3623.M Wed May 04 15:37:52 2016 MS3E

SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/15/16 16:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83088.D
Acq On : 11 May 2016 9:23 am
Operator : ashleyn
Sample : cc3623-25
Misc : op93596,e3e3643
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 12:21:32 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
QLast Update : Wed May 11 11:10:51 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.420	152	176742	40.00 ppm	0.00
24) Naphthalene-d8	5.468	136	676079	40.00 ppm	0.00
47) Acenaphthene-d10	7.463	164	427147	40.00 ppm	0.00
69) Phenanthrene-d10	9.619	188	743104	40.00 ppm	0.00
83) Chrysene-d12	13.786	240	738515	40.00 ppm	0.00
92) Perylene-d12	15.898	264	542841	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.420	152	176742	40.00 ppm	0.00
104) Acenaphthene-d10a	7.463	164	427147	40.00 ppm	0.00
106) Phenanthrene-d10a	9.619	188	743104	40.00 ppm	0.00
108) Chrysene-d12a	13.786	240	738515	40.00 ppm	0.00
110) Naphthalene-d8a	5.468	136	676079	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	3.479	112	122999	22.70 ppm	0.02
Spiked Amount 50.000			Recovery	= 45.40%	
8) Phenol-d5	4.222	99	155444	22.05 ppm	0.05
Spiked Amount 50.000			Recovery	= 44.10%	
25) Nitrobenzene-d5	4.853	82	158710	23.47 ppm	0.00
Spiked Amount 50.000			Recovery	= 46.94%	
51) 2-Fluorobiphenyl	6.618	172	363677	25.67 ppm	0.00
Spiked Amount 50.000			Recovery	= 51.34%	
73) 2,4,6-Tribromophenol	8.592	330	67243	25.66 ppm	0.00
Spiked Amount 50.000			Recovery	= 51.32%	
85) Terphenyl-d14	12.170	244	436972	28.18 ppm	-0.01
Spiked Amount 50.000			Recovery	= 56.36%	

Target Compounds					Qvalue
2) 1,4-Dioxane	1.885	88	39418	24.46 ppm	93
3) Pyridine	2.238	79	97135	21.21 ppm	97
4) N-Nitrosodimethylamine	2.206	74	55719	21.37 ppm	97
6) Indene	4.613	116	243303	23.08 ppm	98
7) Cumene	3.810	105	338201	21.93 ppm	97
9) Phenol	4.227	94	164550	21.29 ppm	98
10) Aniline	4.185	93	179848	20.04 ppm	77
11) bis(2-Chloroethyl)ether	4.233	93	123683	23.34 ppm	91
12) 2-Chlorophenol	4.292	128	147515	23.03 ppm	93
13) Decane	4.297	43	140278	20.69 ppm	98
14) 1,3-Dichlorobenzene	4.377	146	170960	24.41 ppm	98
15) 1,4-Dichlorobenzene	4.436	146	171724	23.37 ppm	99
16) Benzyl alcohol	4.543	108	87930	22.52 ppm	93
17) 1,2-Dichlorobenzene	4.548	146	163807	24.75 ppm	98
18) Acetophenone	4.736	105	199985	22.81 ppm	94
19) 2-Methylphenol	4.661	108	122653	22.64 ppm	91
20) 2,2'-oxybis(1-Chloropr...	4.634	121	50180	23.11 ppm	88
21) 3&4-Methylphenol	4.778	108	128763	22.62 ppm	99
22) n-Nitroso-di-n-propyla...	4.736	70	103455	22.29 ppm	87
23) Hexachloroethane	4.800	201	68810	29.28 ppm	92
26) Nitrobenzene	4.869	77	166650	23.87 ppm	97
27) Quinoline	5.821	129	287076	24.41 ppm	96
28) Isophorone	5.067	82	256350	22.62 ppm	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83088.D
Acq On : 11 May 2016 9:23 am
Operator : ashleyn
Sample : cc3623-25
Misc : op93596,e3e3643
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 12:21:32 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
QLast Update : Wed May 11 11:10:51 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 2-Nitrophenol	5.131	139	85280	23.86 ppm #	73
30) 2,4-Dimethylphenol	5.196	107	148061	24.07 ppm	99
31) Benzoic acid	5.319	105	107616	23.75 ppm	99
32) bis(2-Chloroethoxy)met...	5.254	93	140380	22.75 ppm	99
33) 2,4-Dichlorophenol	5.377	162	131993	27.52 ppm	97
34) 2,6-Dichlorophenol	5.565	162	132906	27.13 ppm	96
35) 1,3,5-Trichlorobenzene	5.137	180	159147	27.45 ppm	99
36) 1,2,4-Trichlorobenzene	5.415	180	153086	27.98 ppm	99
37) 1,2,3-Trichlorobenzene	5.623	180	145813	27.67 ppm	96
38) Naphthalene	5.484	128	439313	23.50 ppm	97
39) 4-Chloroaniline	5.554	127	181241	23.80 ppm	99
40) 2,3-Dichloroaniline	6.527	161	162177	26.83 ppm	96
41) Caprolactam	5.907	55	57299	22.38 ppm	95
42) Hexachlorobutadiene	5.597	225	101101	30.83 ppm	99
43) 4-Chloro-3-methylphenol	6.100	107	133076	24.32 ppm	99
44) 2-Methylnaphthalene	6.190	141	280133	26.40 ppm	96
45) 1-Methylnaphthalene	6.303	141	287892	26.01 ppm	98
46) Dimethylnaphthalene	6.934	156	293331	27.38 ppm	98
48) Hexachlorocyclopentadiene	6.362	237	130318	40.51 ppm	95
49) 2,4,6-Trichlorophenol	6.543	196	103276	26.66 ppm	97
50) 2,4,5-Trichlorophenol	6.624	196	112352	26.05 ppm	98
52) 2-Chloronaphthalene	6.757	162	304152	25.12 ppm	96
53) Biphenyl	6.741	154	394802	24.45 ppm	98
54) 2-Nitroaniline	6.918	65	108088	24.09 ppm	92
55) Dimethylphthalate	7.148	163	364874	25.73 ppm	99
56) Acenaphthylene	7.276	152	494304	24.46 ppm	97
57) 2,6-Dinitrotoluene	7.233	165	80634	25.39 ppm	97
58) 3-Nitroaniline	7.458	138	83835	23.71 ppm	96
59) Acenaphthene	7.506	153	326879	24.36 ppm	98
60) 2,4-Dinitrophenol	7.624	184	73854	48.51 ppm	79
61) 4-Nitrophenol	7.865	109	60128	26.33 ppm	96
62) Dibenzofuran	7.747	168	429385	24.31 ppm	89
63) 2,4-Dinitrotoluene	7.790	165	111204	25.60 ppm	79
64) 2,3,4,6-Tetrachlorophenol	7.961	232	80852	25.29 ppm	93
65) Diethylphthalate	8.132	149	376137	25.25 ppm	99
66) Fluorene	8.228	166	367975	24.88 ppm	99
67) 4-Chlorophenyl-phenyle...	8.255	204	184821	27.41 ppm	96
68) 4-Nitroaniline	8.319	138	84667	24.91 ppm	96
70) 4,6-Dinitro-2-methylph...	8.373	198	63883	25.00 ppm	92
71) n-Nitrosodiphenylamine	8.442	169	246698	23.90 ppm	97
72) 1,2-Diphenylhydrazine	8.485	77	356788	23.21 ppm	95
74) 4-Bromophenyl-phenylether	8.972	248	118258	26.77 ppm	95
75) Hexachlorobenzene	9.031	284	134762	25.44 ppm	95
76) Pentachlorophenol	9.378	266	107936	42.80 ppm	99
77) Phenanthrene	9.651	178	505363	23.44 ppm	98
78) Anthracene	9.731	178	521188	24.13 ppm	98
79) Carbazole	10.025	167	465561	23.82 ppm	100
80) Di-n-butylphthalate	10.646	149	592759	23.49 ppm	98
81) Fluoranthene	11.502	202	588463	25.17 ppm	97
82) Octadecane	9.576	57	177730	20.25 ppm	88

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83088.D
Acq On : 11 May 2016 9:23 am
Operator : ashleyn
Sample : cc3623-25
Misc : op93596,e3e3643
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 12:21:32 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
QLast Update : Wed May 11 11:10:51 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
84) Pyrene	11.849	202	605890	27.41 ppm	98
86) Butylbenzylphthalate	13.015	149	262881	24.93 ppm	95
87) Butyl stearate	13.192	56	125771	22.72 ppm	89
88) Benzo[a]anthracene	13.769	228	540898	25.06 ppm	99
89) 3,3'-Dichlorobenzidine	13.791	252	211543	26.35 ppm	98
90) Chrysene	13.828	228	499082	24.78 ppm	98
91) bis(2-Ethylhexyl)phtha...	13.978	149	314542	23.18 ppm	98
93) Di-n-octylphthalate	14.968	149	498475	24.23 ppm	98
94) Benzo[b]fluoranthene	15.379	252	440640	24.01 ppm	97
95) Benzo[k]fluoranthene	15.417	252	417133	25.47 ppm	98
96) Benzo[a]pyrene	15.818	252	376944	24.61 ppm	96
97) Indeno[1,2,3-cd]pyrene	17.310	276	372257m	25.50 ppm	
98) Dibenz(a,h)acridine	17.005	279	333571	24.28 ppm	96
99) Dibenz[a,h]anthracene	17.348	278	382102	26.35 ppm	98
100) 7,12-Dimethylbenz(a)an...	15.369	256	210194	25.70 ppm	99
101) Benzo[g,h,i]perylene	17.701	276	372339	26.48 ppm	99

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

7.6.29

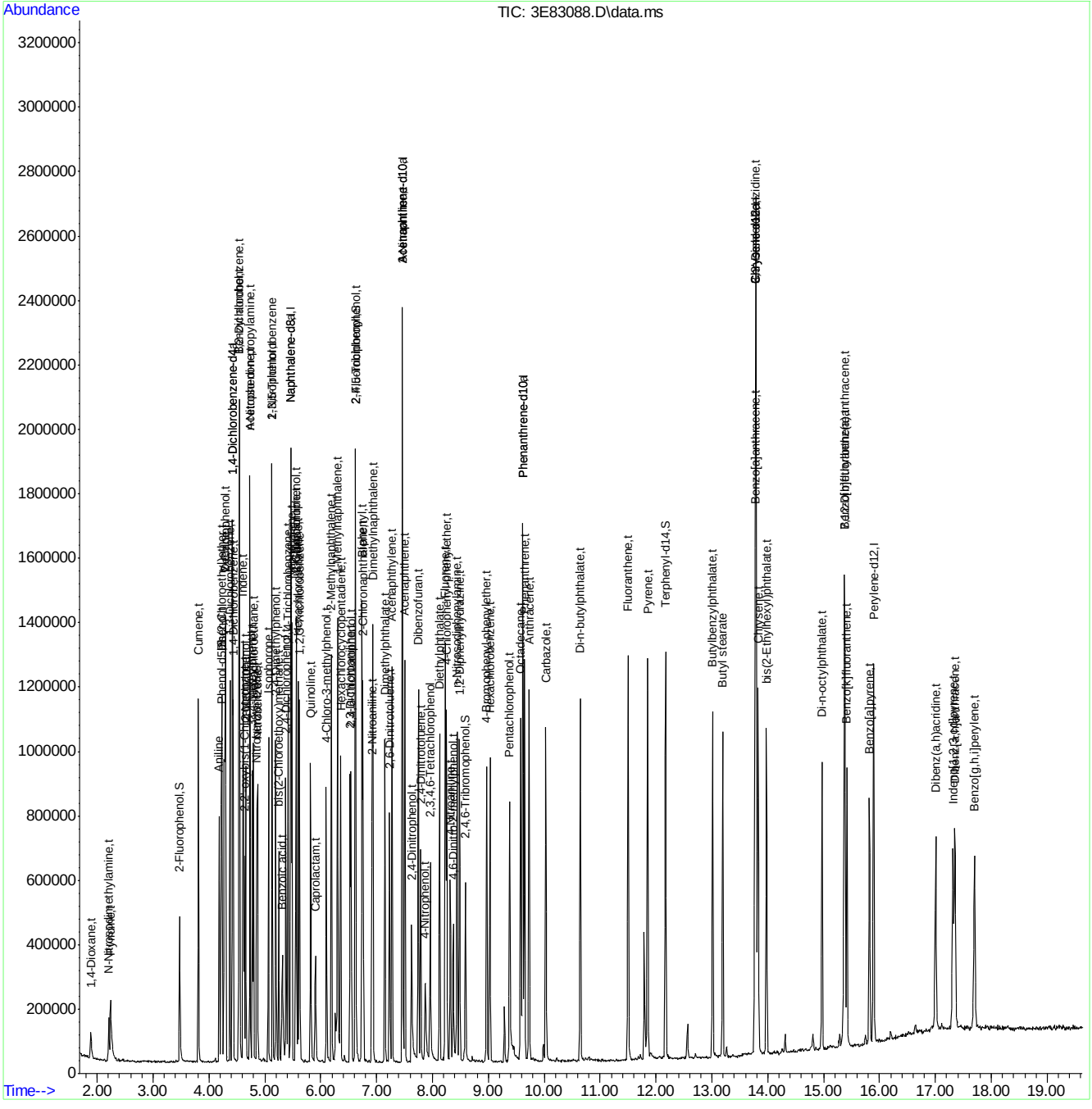
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83088.D
Acq On : 11 May 2016 9:23 am
Operator : ashleyn
Sample : cc3623-25
Misc : op93596,e3e3643
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 12:21:32 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
QLast Update : Wed May 11 11:10:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

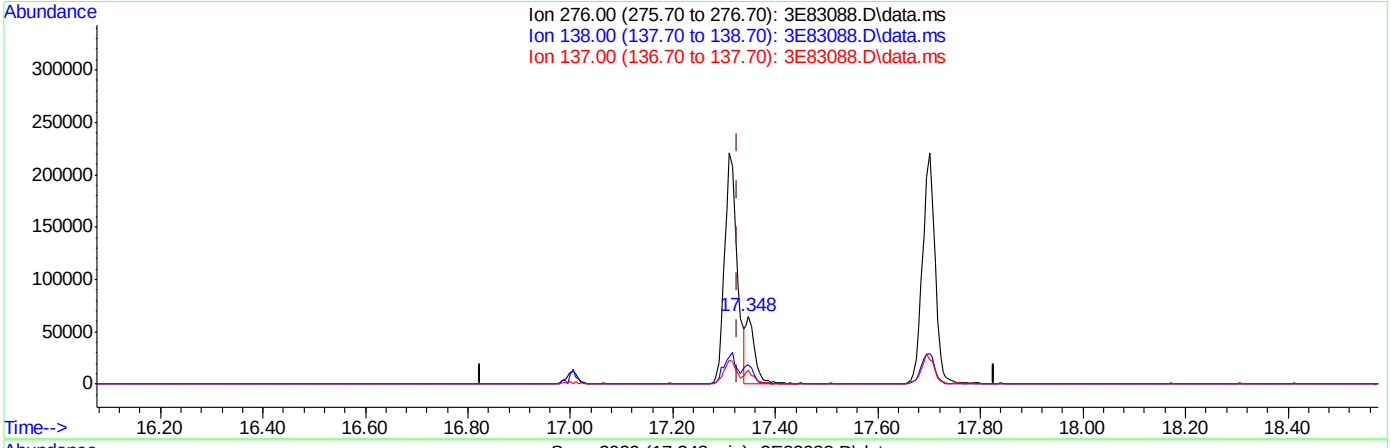
Sample Number:	E3E3643-CC3623	**Method:**	SW846 8270D
Lab FileID:	3E83088.D	**Analyst approved:**	05/11/16 12:38 Ashley Noble
Injection Time:	05/11/16 09:23	**Supervisor approved:**	05/15/16 16:04 Nina Pandya

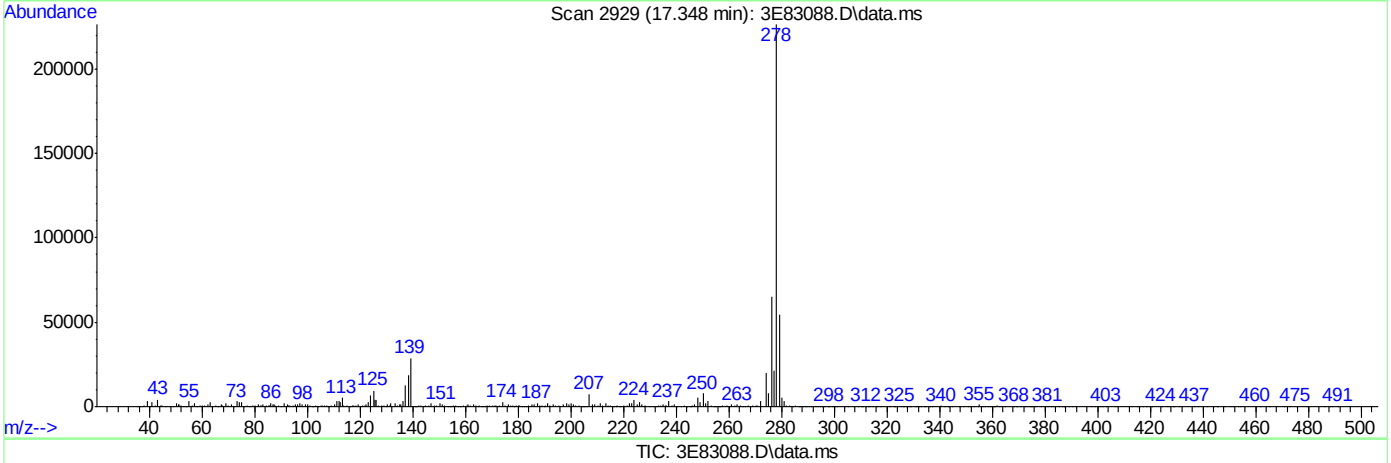
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.31	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83088.D
Acq On : 11 May 2016 9:23 am
Operator : ashleyn
Sample : cc3623-25
Misc : op93596,e3e3643
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 12:21:09 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
QLast Update : Wed May 11 11:10:51 2016
Response via : Initial Calibration





TIC: 3E83088.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.348min (+0.022) 5.70ppm

response 83172

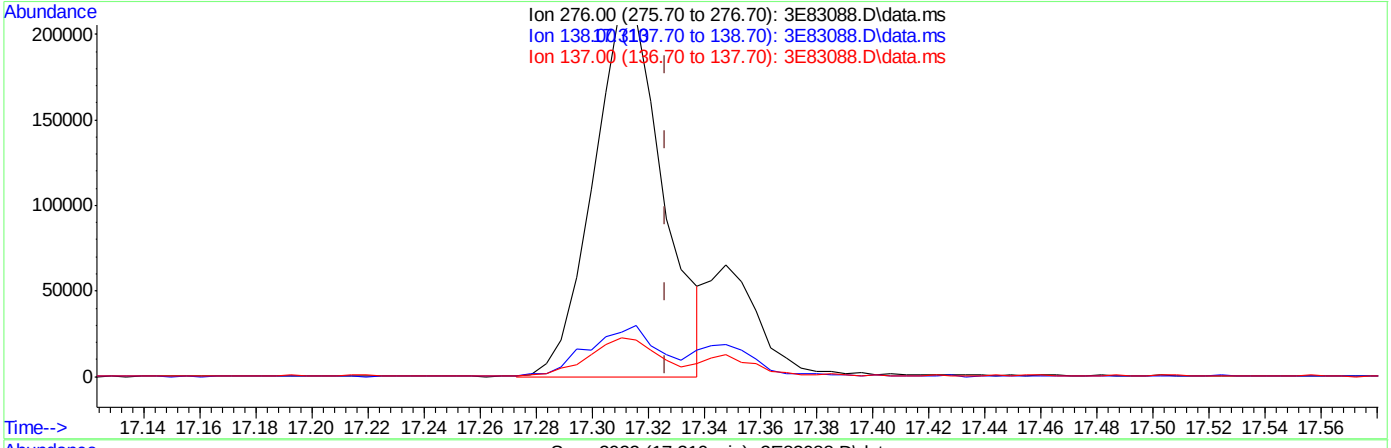
Ion	Exp%	Act%
276.00	100	100
138.00	14.20	28.10
137.00	9.50	22.27
0.00	0.00	0.00

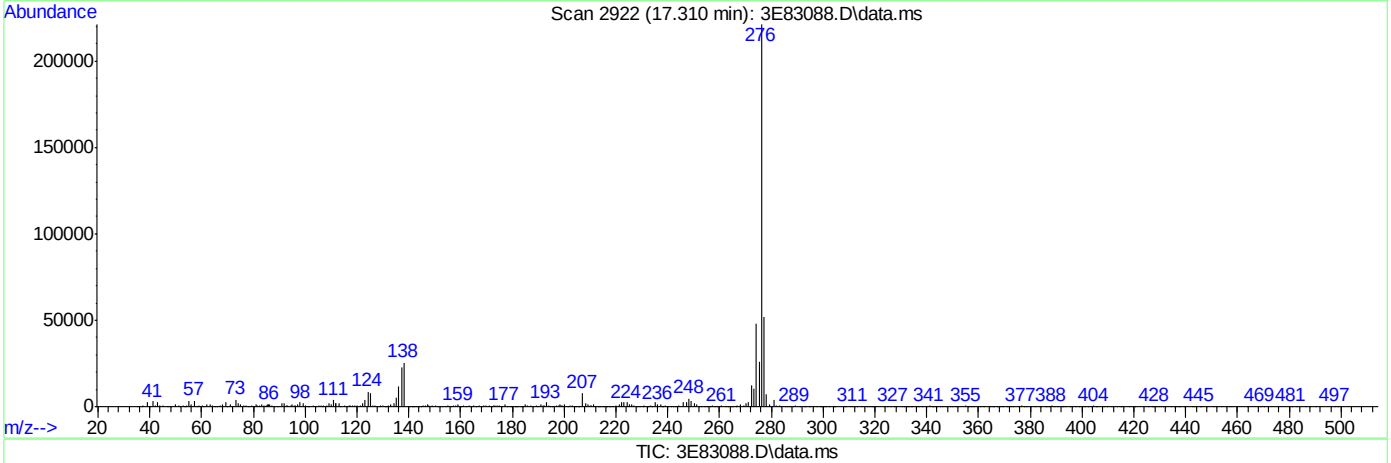
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83088.D
Acq On : 11 May 2016 9:23 am
Operator : ashleyn
Sample : cc3623-25
Misc : op93596,e3e3643
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 12:21:09 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
QLast Update : Wed May 11 11:10:51 2016
Response via : Initial Calibration





TIC: 3E83088.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.310min (-0.016) 25.50ppm m

response 372257

Ion	Exp%	Act%
276.00	100	100
138.00	14.20	11.59
137.00	9.50	10.30
0.00	0.00	0.00

M3E3623.M Wed May 11 12:21:25 2016 MS3E

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83089.D
Acq On : 11 May 2016 9:49 am
Operator : ashleyn
Sample : cc3621-25
Misc : op93596,e3e3643
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 11 12:22:37 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
QLast Update : Wed May 11 11:10:51 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.420	152	177651	40.00	ppm	0.00
24) Naphthalene-d8	5.468	136	699984	40.00	ppm	0.00
47) Acenaphthene-d10	7.463	164	478850	40.00	ppm	0.00
69) Phenanthrene-d10	9.614	188	883836	40.00	ppm	0.00
83) Chrysene-d12	13.785	240	953296	40.00	ppm	0.00
92) Perylene-d12	15.898	264	725977	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.420	152	177651	40.00	ppm	0.00
104) Acenaphthene-d10a	7.463	164	478850	40.00	ppm	0.00
106) Phenanthrene-d10a	9.614	188	883836	40.00	ppm	0.00
108) Chrysene-d12a	13.785	240	953296	40.00	ppm	0.00
110) Naphthalene-d8a	5.468	136	699984	40.00	ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
103) Benzaldehyde	4.099	105	102365	21.26	ppm #	82
105) 1,2,4,5-Tetrachloroben...	6.383	216	180985	30.53	ppm	99
107) Atrazine	9.293	215	70350	31.27	ppm #	85
109) benzidine	11.790	184	212528	18.11	ppm	95
111) Hydroquinone	5.950	110	155208	32.25	ppm	65

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

7.6.30

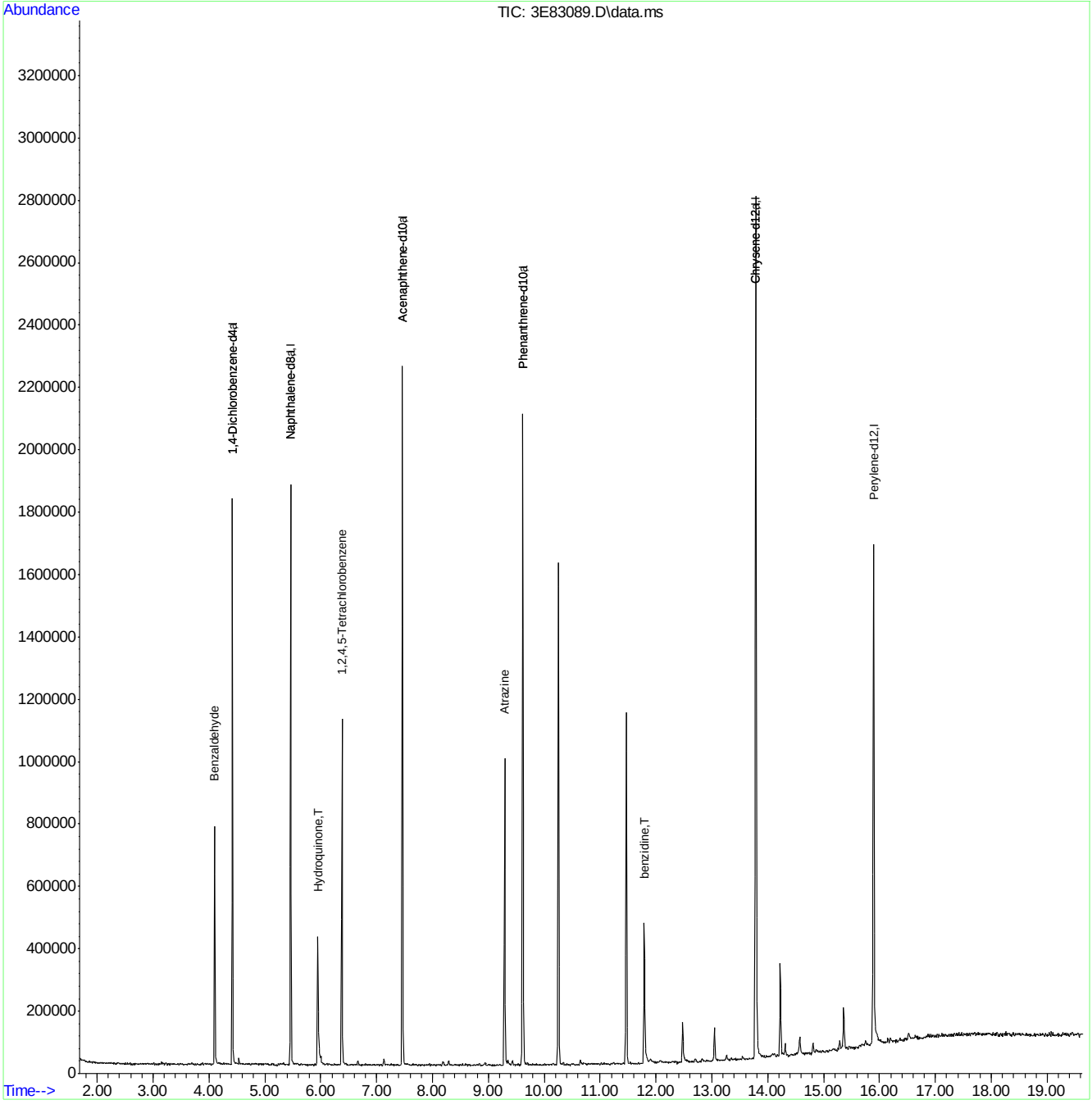
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83089.D
Acq On : 11 May 2016 9:49 am
Operator : ashleyn
Sample : cc3621-25
Misc : op93596,e3e3643
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 11 12:22:37 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed May 11 11:10:51 2016
QLast Update : Wed May 11 11:10:51 2016
Response via : Initial Calibration



M3E3623.M Wed May 11 12:22:47 2016 MS3E

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60763a.D
Acq On : 21 Apr 2016 2:34 pm
Operator : linseyk
Sample : icc2855-1
Misc : op93052a,e3m2855
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 22 08:25:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:25:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	400870	4.00	ppm	0.00
14) Fluorene-d10	13.625	176	625702	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	1077133	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	871075	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	1020090	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
4) Phenol-d5	6.104	99	1710029	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
7) Nitrobenzene-d5	7.726	82	1614929	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
15) 2-Fluorobiphenyl	11.303	172	3472226	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
20) 2,4,6-Tribromophenol	14.172	330	412126	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
28) Terphenyl-d14	18.647	244	3034780	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.289	88	20871	1.00	ppm	100
5) Phenol	6.128	94	465092	5.00	ppm	100
6) bis(2-Chloroethyl)ether	6.285	93	70869	1.00	ppm	100
8) Nitrobenzene	7.764	77	86151	1.00	ppm	100
9) Naphthalene	9.138	128	219827	1.00	ppm	100
10) Hexachlorobutadiene	9.421	225	40324	1.00	ppm	100
11) 2-Methylnaphthalene	10.517	141	120636	1.00	ppm	100
12) 1-Methylnaphthalene	10.702	141	140296	1.00	ppm	100
13) Hexachlorocyclopentadiene	10.846	237	70869	2.00	ppm	100
16) Acenaphthylene	12.293	152	240199	1.00	ppm	100
17) Acenaphthene	12.648	153	154130	1.00	ppm	100
18) 4,6-dinitro-2-methylph...	13.851	198	102012	5.00	ppm	100
19) Fluorene	13.682	166	186031	1.00	ppm	100
22) Hexachlorobenzene	14.783	284	51035	1.00	ppm	100
23) Pentachlorophenol	15.200	266	181848	5.00	ppm	100
24) Phenanthrene	15.602	178	268689	1.00	ppm	100
25) Anthracene	15.711	178	253406	1.00	ppm	100
26) Fluoranthene	17.874	202	309707	1.00	ppm	100
27) Pyrene	18.261	202	317795	1.00	ppm	100
29) Benzo[a]anthracene	20.346	228	287712	1.00	ppm	100
30) Chrysene	20.408	228	289281	1.00	ppm	100
32) Benzo[b]fluoranthene	22.015	252	292603	1.00	ppm	100
33) Benzo[k]fluoranthene	22.061	252	269694	0.99	ppm	100
34) Benzo[a]pyrene	22.463	252	265091	1.00	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.963	276	292264	1.00	ppm	100
36) Dibenz[a,h]anthracene	24.020	278	233740	0.93	ppm	81
37) Benzo[g,h,i]perylene	24.358	276	248979	1.00	ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60763a.D
Acq On : 21 Apr 2016 2:34 pm
Operator : linseyk
Sample : icc2855-1
Misc : op93052a,e3m2855
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 22 08:25:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:25:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

7.6.31

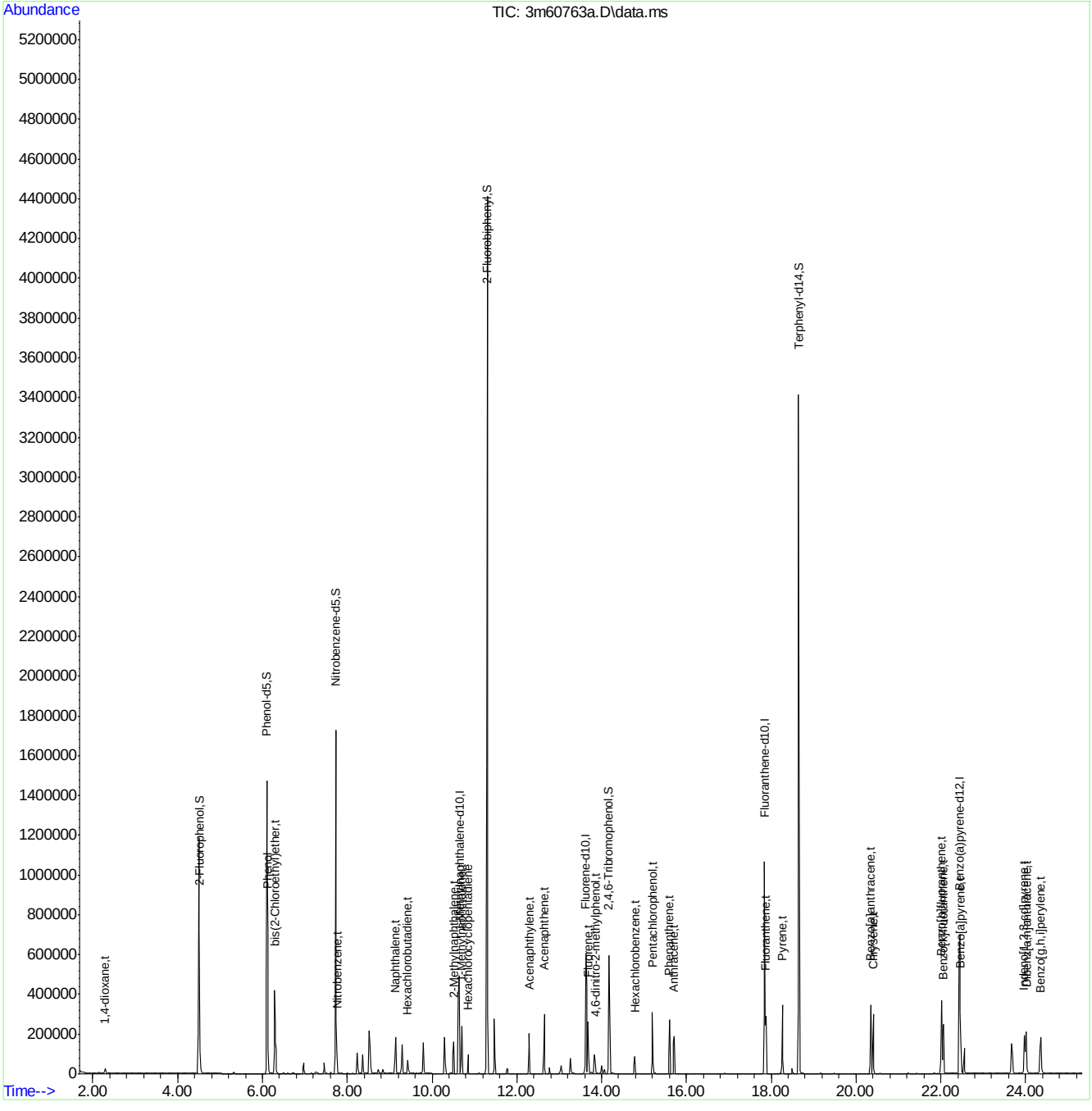
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60763a.D
Acq On : 21 Apr 2016 2:34 pm
Operator : linseyk
Sample : icc2855-1
Misc : op93052a,e3m2855
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 22 08:25:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:25:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60764a.D
Acq On : 21 Apr 2016 3:07 pm
Operator : linseyk
Sample : ic2855-0.5
Misc : op93052a,e3m2855
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 08:26:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.620	150	358247	4.00	ppm	-0.02
14) Fluorene-d10	13.625	176	572881	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	971465	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	803329	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	465758	10.22	ppm	0.00
Spiked Amount 50.000			Recovery = 20.44%			
4) Phenol-d5	6.104	99	786231	10.29	ppm	0.00
Spiked Amount 50.000			Recovery = 20.58%			
7) Nitrobenzene-d5	7.726	82	745253	10.33	ppm	0.00
Spiked Amount 50.000			Recovery = 20.66%			
15) 2-Fluorobiphenyl	11.303	172	1590025	10.00	ppm	0.00
Spiked Amount 50.000			Recovery = 20.00%			
20) 2,4,6-Tribromophenol	14.172	330	191850	10.17	ppm	0.00
Spiked Amount 50.000			Recovery = 20.34%			
28) Terphenyl-d14	18.647	244	1433884	10.48	ppm	0.00
Spiked Amount 50.000			Recovery = 20.96%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.289	88	9527	0.51	ppm	66
5) Phenol	6.116	94	208854	2.51	ppm #	64
6) bis(2-Chloroethyl)ether	6.285	93	31897	0.50	ppm	98
8) Nitrobenzene	7.764	77	37433	0.49	ppm	96
9) Naphthalene	9.138	128	98367	0.50	ppm	99
10) Hexachlorobutadiene	9.421	225	18124	0.50	ppm	97
11) 2-Methylnaphthalene	10.517	141	50870	0.47	ppm	97
12) 1-Methylnaphthalene	10.702	141	62617	0.50	ppm	98
13) Hexachlorocyclopentadiene	10.845	237	29084	0.92	ppm	100
16) Acenaphthylene	12.293	152	105827	0.48	ppm	99
17) Acenaphthene	12.648	153	67805	0.48	ppm	97
18) 4,6-dinitro-2-methylph...	13.851	198	30000	1.61	ppm	98
19) Fluorene	13.682	166	81831	0.48	ppm	98
22) Hexachlorobenzene	14.783	284	23082	0.50	ppm	99
23) Pentachlorophenol	15.200	266	74585	2.27	ppm	96
24) Phenanthrene	15.602	178	120971	0.50	ppm	98
25) Anthracene	15.695	178	110700	0.48	ppm	87
26) Fluoranthene	17.874	202	132546	0.47	ppm	98
27) Pyrene	18.261	202	140572	0.49	ppm	100
29) Benzo[a]anthracene	20.346	228	124954	0.48	ppm	99
30) Chrysene	20.408	228	123107	0.47	ppm	98
32) Benzo[b]fluoranthene	22.015	252	128656	0.48	ppm	98
33) Benzo[k]fluoranthene	22.061	252	114388	0.46	ppm	97
34) Benzo[a]pyrene	22.463	252	116726	0.48	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	127053	0.47	ppm	99
36) Dibenz[a,h]anthracene	24.020	278	97979	0.45	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	108758	0.47	ppm	99

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60764a.D
Acq On : 21 Apr 2016 3:07 pm
Operator : linseyk
Sample : ic2855-0.5
Misc : op93052a,e3m2855
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 08:26:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:05 2016
Response via : Initial Calibration

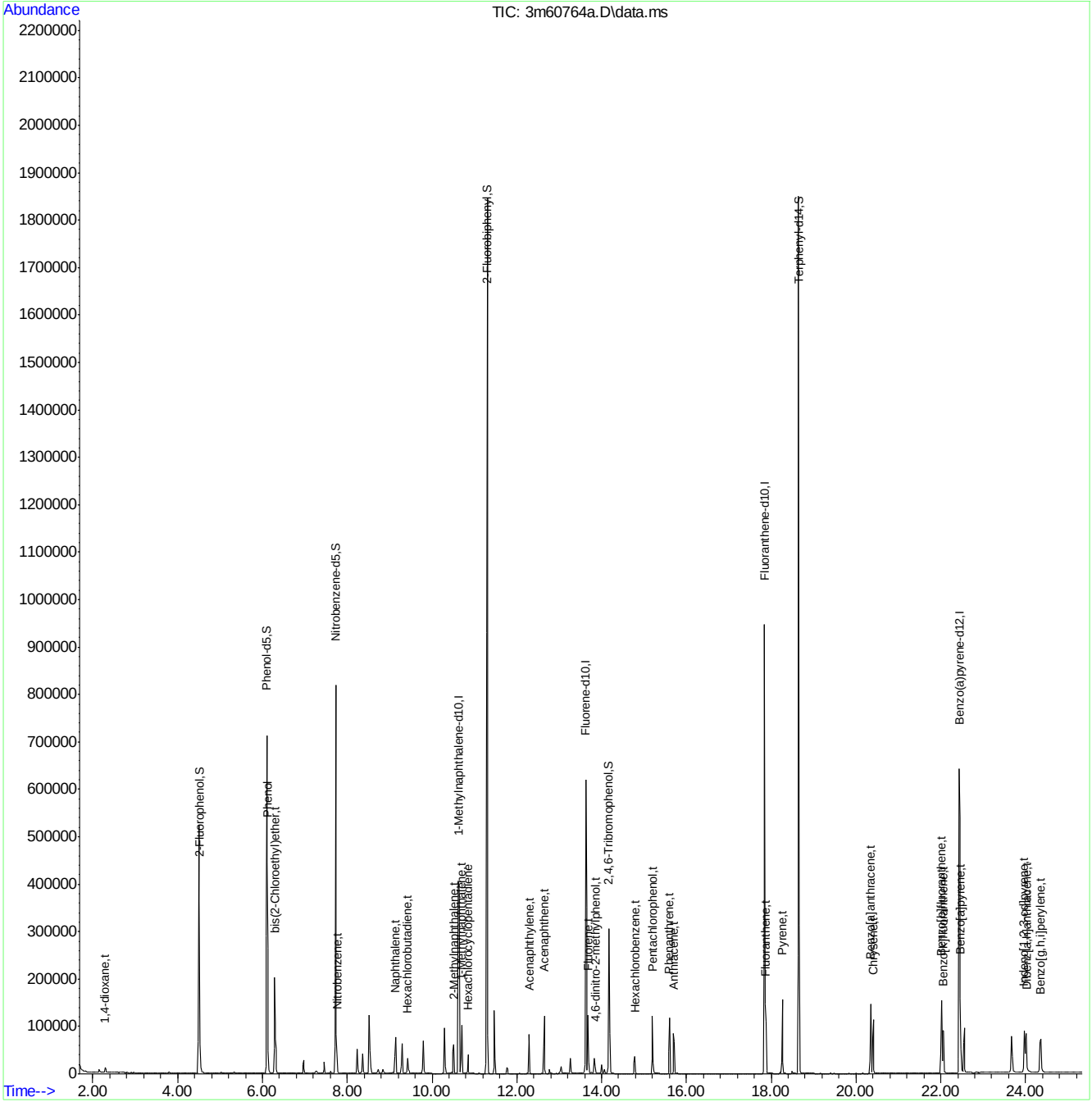
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60764a.D
Acq On : 21 Apr 2016 3:07 pm
Operator : linseyk
Sample : ic2855-0.5
Misc : op93052a,e3m2855
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 08:26:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60765a.D
Acq On : 21 Apr 2016 3:39 pm
Operator : linseyk
Sample : ic2855-0.2
Misc : op93052a,e3m2855
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 22 08:26:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	350963	4.00	ppm	0.02
14) Fluorene-d10	13.625	176	541559	4.00	ppm	0.00
21) Fluoranthene-d10	17.844	212	945802	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	762324	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	182333	4.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.08%	
4) Phenol-d5	6.104	99	309088	4.07	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.14%	
7) Nitrobenzene-d5	7.726	82	282457	3.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.86%	
15) 2-Fluorobiphenyl	11.303	172	631033	4.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.40%	
20) 2,4,6-Tribromophenol	14.172	330	70258	3.91	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.82%	
28) Terphenyl-d14	18.647	244	584275	4.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.56%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.290	88	3559	0.19	ppm #	20
5) Phenol	6.116	94	80728	0.99	ppm #	72
6) bis(2-Chloroethyl)ether	6.285	93	12510	0.20	ppm	96
8) Nitrobenzene	7.764	77	14471	0.19	ppm	100
9) Naphthalene	9.139	128	39500	0.21	ppm	99
10) Hexachlorobutadiene	9.421	225	7119	0.20	ppm	100
11) 2-Methylnaphthalene	10.517	141	20355	0.20	ppm	100
12) 1-Methylnaphthalene	10.702	141	25492	0.21	ppm	98
13) Hexachlorocyclopentadiene	10.846	237	9938	0.33	ppm	99
16) Acenaphthylene	12.293	152	39006	0.19	ppm	99
17) Acenaphthene	12.648	153	26171	0.20	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	7553	0.52	ppm	92
19) Fluorene	13.682	166	31388	0.20	ppm	99
22) Hexachlorobenzene	14.783	284	8969	0.20	ppm	98
23) Pentachlorophenol	15.200	266	23466	0.77	ppm	99
24) Phenanthrene	15.602	178	45498	0.19	ppm	100
25) Anthracene	15.711	178	40800	0.19	ppm	99
26) Fluoranthene	17.874	202	52573	0.20	ppm	99
27) Pyrene	18.261	202	52427	0.19	ppm	99
29) Benzo[a]anthracene	20.347	228	46665	0.19	ppm	99
30) Chrysene	20.408	228	48799	0.20	ppm	99
32) Benzo[b]fluoranthene	22.015	252	49094	0.20	ppm	98
33) Benzo[k]fluoranthene	22.062	252	44557	0.20	ppm	99
34) Benzo[a]pyrene	22.463	252	44223	0.20	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	49013	0.20	ppm	100
36) Dibenz[a,h]anthracene	24.020	278	39930	0.20	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	41535	0.20	ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60765a.D
Acq On : 21 Apr 2016 3:39 pm
Operator : linseyk
Sample : ic2855-0.2
Misc : op93052a,e3m2855
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 22 08:26:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

7.6.33

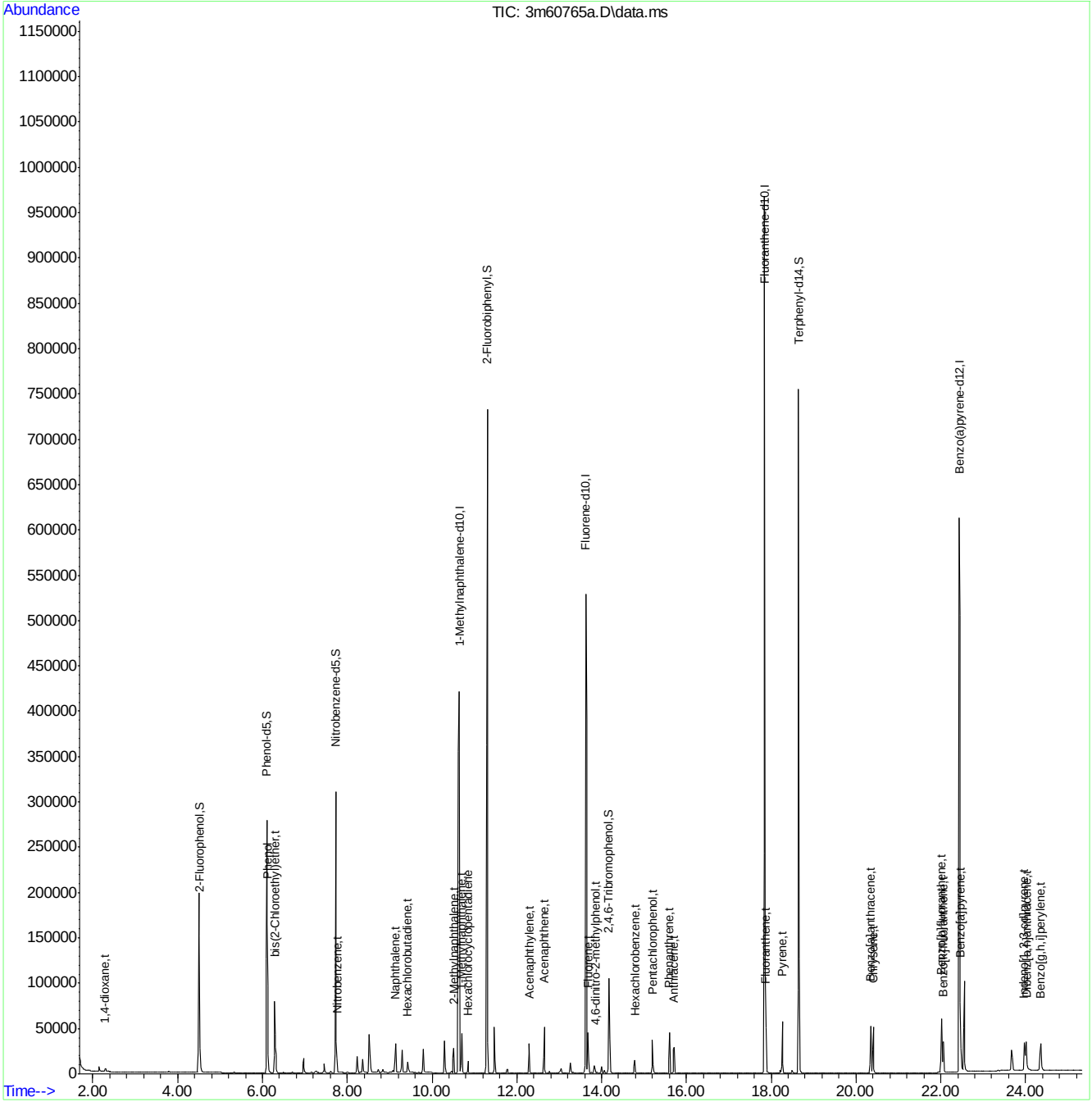
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60765a.D
Acq On : 21 Apr 2016 3:39 pm
Operator : linseyk
Sample : ic2855-0.2
Misc : op93052a,e3m2855
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 22 08:26:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:46 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60766.D
Acq On : 21 Apr 2016 4:12 pm
Operator : linseyk
Sample : ic2855-0.1
Misc : op93052a,e3m2855
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 08:27:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:27:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	340968	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	502575	4.00	ppm	0.02
21) Fluoranthene-d10	17.844	212	887342	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	703545	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	86528	1.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.94%	
4) Phenol-d5	6.104	99	144256	1.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.88%	
7) Nitrobenzene-d5	7.726	82	129224	1.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.72%	
15) 2-Fluorobiphenyl	11.303	172	294276	2.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.16%	
20) 2,4,6-Tribromophenol	14.172	330	28910	1.75	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.50%	
28) Terphenyl-d14	18.647	244	266058	2.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.06%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	1953	0.11	ppm	93
5) Phenol	6.116	94	38102	0.48	ppm #	73
6) bis(2-Chloroethyl)ether	6.285	93	5932	0.10	ppm	92
8) Nitrobenzene	7.764	77	6815	0.10	ppm	96
9) Naphthalene	9.139	128	19053	0.10	ppm	99
10) Hexachlorobutadiene	9.421	225	3313	0.10	ppm	99
11) 2-Methylnaphthalene	10.517	141	9659	0.10	ppm	97
12) 1-Methylnaphthalene	10.702	141	12284	0.10	ppm	94
13) Hexachlorocyclopentadiene	10.846	237	4166	0.15	ppm	100
16) Acenaphthylene	12.293	152	17405	0.09	ppm	100
17) Acenaphthene	12.648	153	11953	0.10	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	2417	0.21	ppm	96
19) Fluorene	13.682	166	14084	0.10	ppm	100
22) Hexachlorobenzene	14.783	284	4120	0.10	ppm	99
23) Pentachlorophenol	15.201	266	9313	0.35	ppm	100
24) Phenanthrene	15.602	178	20817	0.10	ppm	100
25) Anthracene	15.711	178	17457	0.09	ppm	100
26) Fluoranthene	17.874	202	24361	0.10	ppm	99
27) Pyrene	18.261	202	23618	0.09	ppm	99
29) Benzo[a]anthracene	20.347	228	21304	0.09	ppm	99
30) Chrysene	20.408	228	22498	0.10	ppm	99
32) Benzo[b]fluoranthene	22.015	252	22115	0.10	ppm	99
33) Benzo[k]fluoranthene	22.062	252	22174	0.11	ppm	99
34) Benzo[a]pyrene	22.463	252	19014	0.09	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	22099	0.10	ppm	98
36) Dibenz[a,h]anthracene	24.020	278	18120	0.10	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	19184	0.10	ppm	99

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60766.D
Acq On : 21 Apr 2016 4:12 pm
Operator : linseyk
Sample : ic2855-0.1
Misc : op93052a,e3m2855
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 08:27:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:27:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

7.6.34

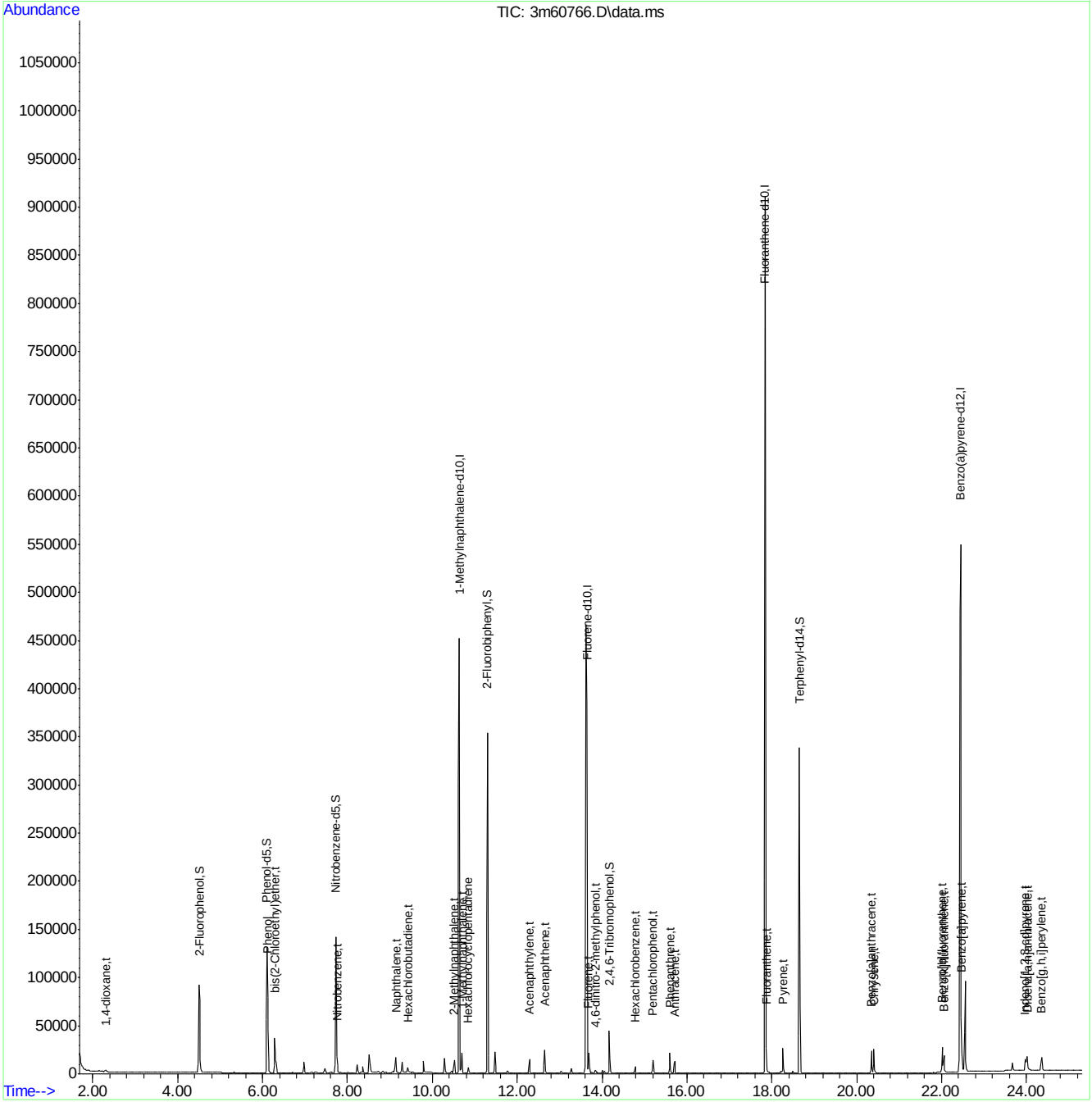
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60766.D
Acq On : 21 Apr 2016 4:12 pm
Operator : linseyk
Sample : ic2855-0.1
Misc : op93052a,e3m2855
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 08:27:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:27:18 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:27:46 2016 RPT1 Page: 3

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60767.D
Acq On : 21 Apr 2016 4:44 pm
Operator : linseyk
Sample : ic2855-0.05
Misc : op93052a,e3m2855
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 22 08:34:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:32:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	339033	4.00	ppm	0.00
14) Fluorene-d10	13.626	176	520555	4.00	ppm	-0.02
21) Fluoranthene-d10	17.844	212	888983	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	706519	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	42704	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
4) Phenol-d5	6.104	99	70262	1.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.00%	
7) Nitrobenzene-d5	7.726	82	63026	0.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.94%	
15) 2-Fluorobiphenyl	11.303	172	145045	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
20) 2,4,6-Tribromophenol	14.172	330	13489	0.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.66%	
28) Terphenyl-d14	18.647	244	135801	1.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.10%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	1056	0.06	ppm	90
5) Phenol	6.116	94	18706	0.25	ppm #	73
6) bis(2-Chloroethyl)ether	6.285	93	3013	0.05	ppm	88
8) Nitrobenzene	7.764	77	3438	0.05	ppm	92
9) Naphthalene	9.139	128	9285	0.05	ppm	99
10) Hexachlorobutadiene	9.421	225	1685	0.05	ppm	99
11) 2-Methylnaphthalene	10.518	141	4767	0.05	ppm	96
12) 1-Methylnaphthalene	10.702	141	6629	0.05	ppm	95
13) Hexachlorocyclopentadiene	10.846	237	2049	0.08	ppm	97
16) Acenaphthylene	12.293	152	8346	0.05	ppm	99
17) Acenaphthene	12.648	153	5946	0.05	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	948	0.07	ppm	91
19) Fluorene	13.682	166	7106	0.05	ppm	100
22) Hexachlorobenzene	14.783	284	2065	0.05	ppm	96
23) Pentachlorophenol	15.201	266	4271	0.17	ppm	98
24) Phenanthrene	15.603	178	10238	0.05	ppm	99
25) Anthracene	15.711	178	8587	0.04	ppm	98
26) Fluoranthene	17.875	202	12772	0.05	ppm	99
27) Pyrene	18.261	202	11982	0.05	ppm	98
29) Benzo[a]anthracene	20.347	228	11591	0.05	ppm	100
30) Chrysene	20.408	228	11884	0.05	ppm	99
32) Benzo[b]fluoranthene	22.015	252	11635	0.04	ppm	99
33) Benzo[k]fluoranthene	22.062	252	11007	0.05	ppm	100
34) Benzo[a]pyrene	22.463	252	12936	0.06	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.963	276	10547	0.05	ppm	100
36) Dibenz[a,h]anthracene	24.020	278	8444	0.05	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	9475	0.05	ppm	99

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60767.D
Acq On : 21 Apr 2016 4:44 pm
Operator : linseyk
Sample : ic2855-0.05
Misc : op93052a,e3m2855
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 22 08:34:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:32:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

7.6.35

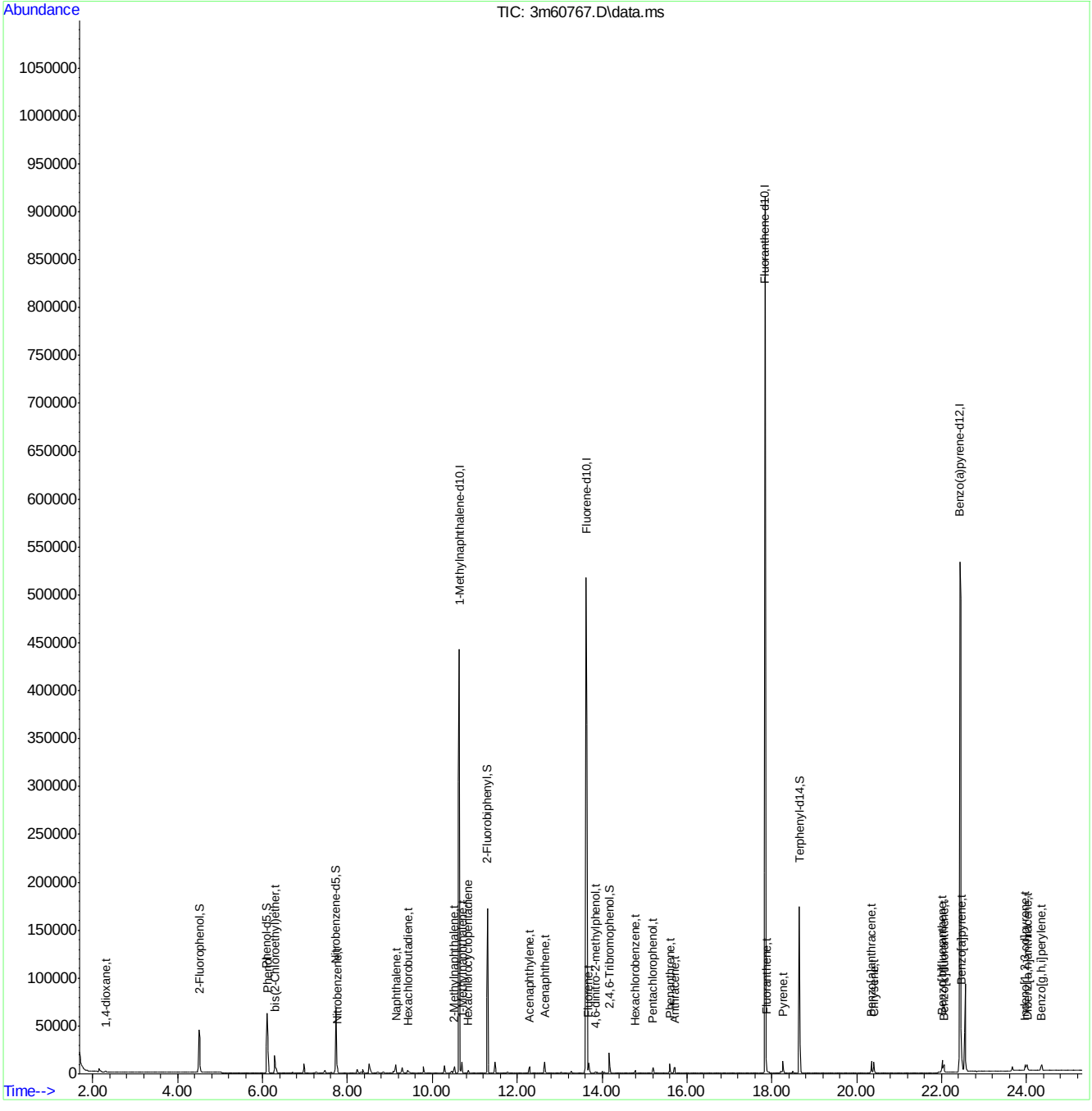
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60767.D
Acq On : 21 Apr 2016 4:44 pm
Operator : linseyk
Sample : ic2855-0.05
Misc : op93052a,e3m2855
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 22 08:34:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:32:39 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/22/16 12:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:29:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	345303	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	525823	4.00	ppm	0.02
21) Fluoranthene-d10	17.843	212	917656	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	713000	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	17018	0.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.78%	
4) Phenol-d5	6.104	99	28195	0.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.76%	
7) Nitrobenzene-d5	7.726	82	25103	0.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.74%	
15) 2-Fluorobiphenyl	11.303	172	57726	0.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.78%	
20) 2,4,6-Tribromophenol	14.172	330	4756	0.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.56%	
28) Terphenyl-d14	18.647	244	56137	0.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.82%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	245m	0.01	ppm	
5) Phenol	6.116	94	7474	0.09	ppm #	72
6) bis(2-Chloroethyl)ether	6.285	93	1201	0.02	ppm	90
8) Nitrobenzene	7.764	77	1406	0.02	ppm	86
9) Naphthalene	9.138	128	3866	0.02	ppm	100
10) Hexachlorobutadiene	9.421	225	661	0.02	ppm	97
11) 2-Methylnaphthalene	10.517	141	1996	0.02	ppm	93
12) 1-Methylnaphthalene	10.702	141	3332	0.03	ppm	91
13) Hexachlorocyclopentadiene	10.846	237	791	0.03	ppm	99
16) Acenaphthylene	12.293	152	3367	0.02	ppm	98
17) Acenaphthene	12.648	153	2382	0.02	ppm	98
18) 4,6-dinitro-2-methylph...	13.852	198	336	0.03	ppm	95
19) Fluorene	13.682	166	2916	0.02	ppm	97
22) Hexachlorobenzene	14.783	284	860	0.02	ppm	95
23) Pentachlorophenol	15.200	266	1647	0.07	ppm	97
24) Phenanthrene	15.602	178	4501	0.02	ppm	99
25) Anthracene	15.711	178	3476	0.02	ppm	96
26) Fluoranthene	17.874	202	6605	0.03	ppm	99
27) Pyrene	18.261	202	5085	0.02	ppm	97
29) Benzo[a]anthracene	20.346	228	5580	0.02	ppm	99
30) Chrysene	20.408	228	6534	0.03	ppm	99
32) Benzo[b]fluoranthene	22.015	252	5729	0.02	ppm	96
33) Benzo[k]fluoranthene	22.061	252	5167	0.02	ppm	95
34) Benzo[a]pyrene	22.463	252	4349m	0.02	ppm	
35) Indeno[1,2,3-cd]pyrene	23.963	276	4283	0.02	ppm	99
36) Dibenz[a,h]anthracene	24.020	278	3214	0.02	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	3711	0.02	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:29:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

7.6.36

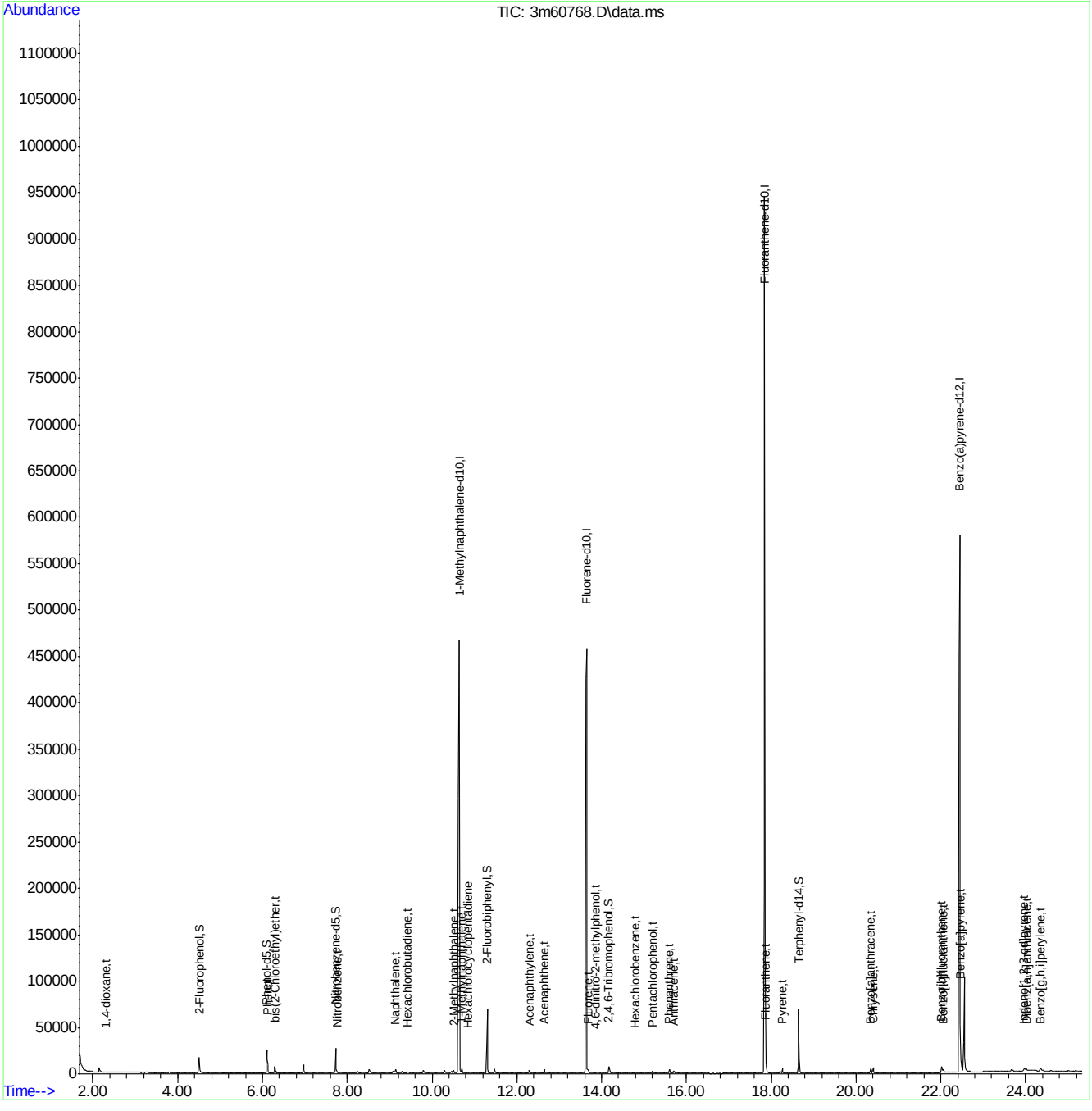
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:29:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

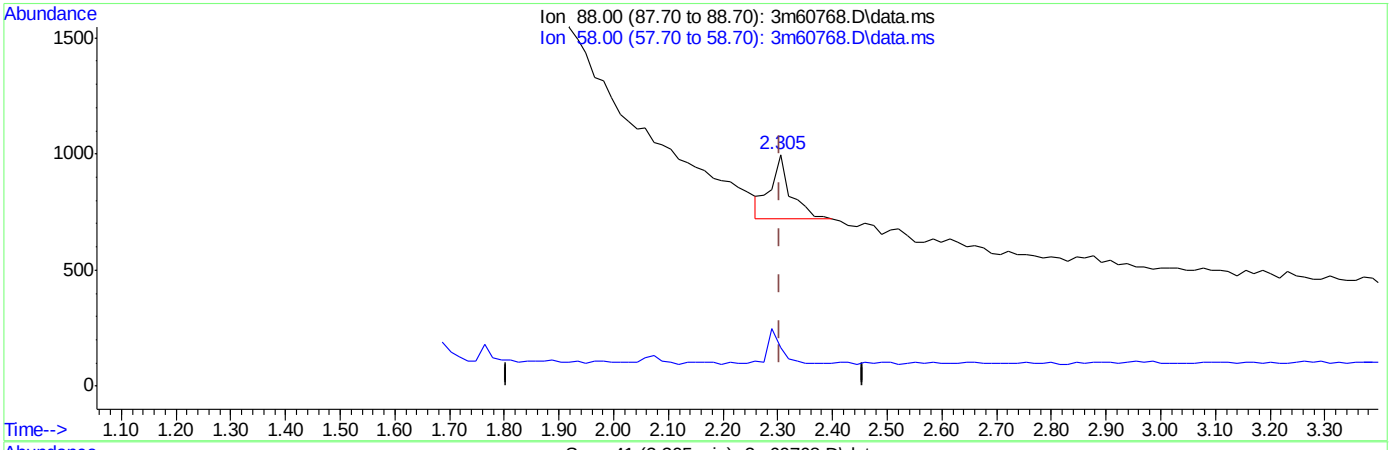
Sample Number:	E3M2855-IC2855	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M60768.D	**Analyst approved:**	04/22/16 09:15 Linsey Kirschmann
Injection Time:	04/21/16 17:17	**Supervisor approved:**	04/22/16 12:27 Nina Pandya

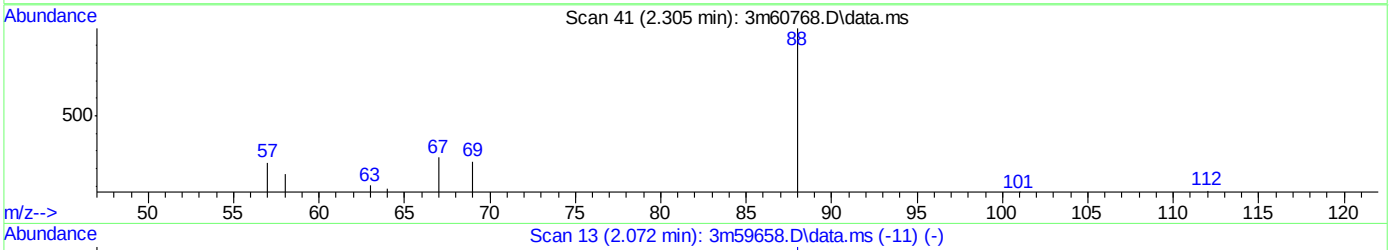
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.30	Baseline ripple
Benzo(a)pyrene	50-32-8		22.46	Baseline ripple

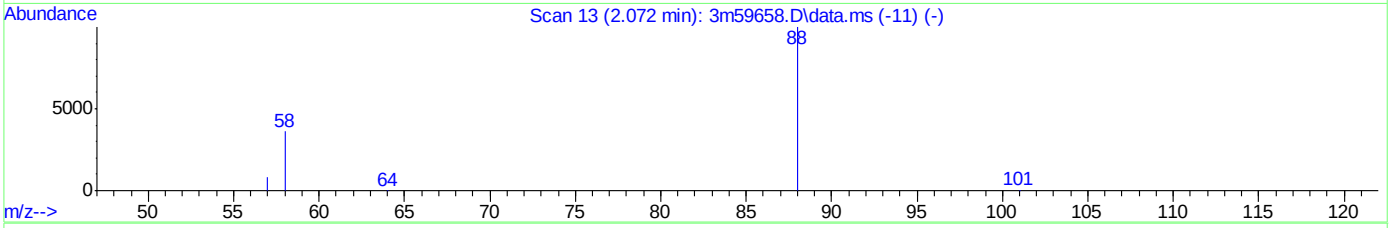
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(2) 1,4-dioxane (t)

2.305min (-0.000) 0.04ppm

response 710

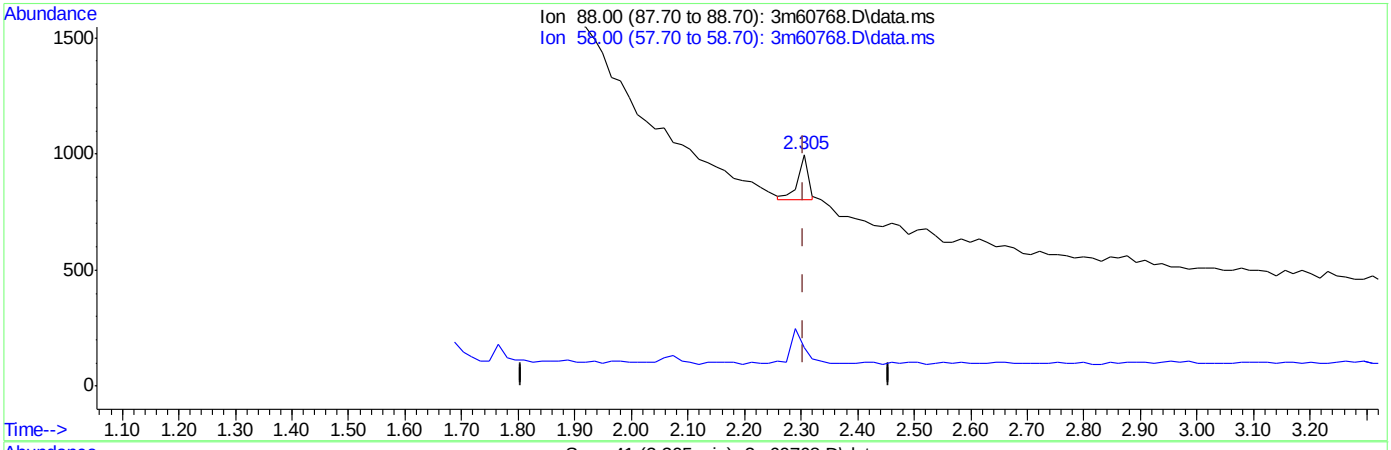
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	28.23
0.00	0.00	0.00
0.00	0.00	0.00

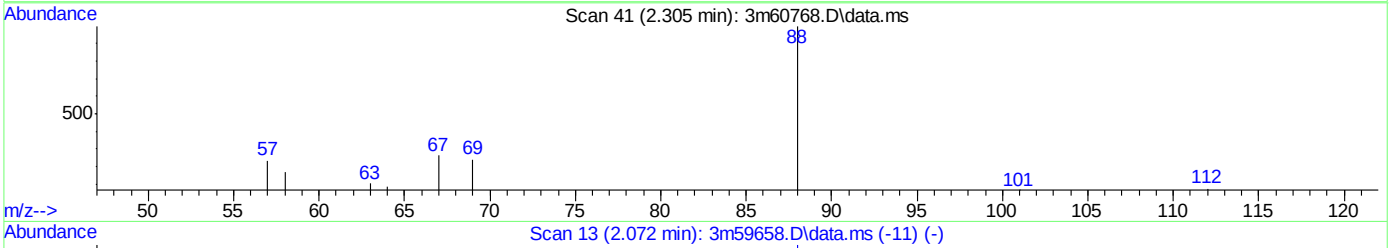
SGS ACCUTEST JC19423

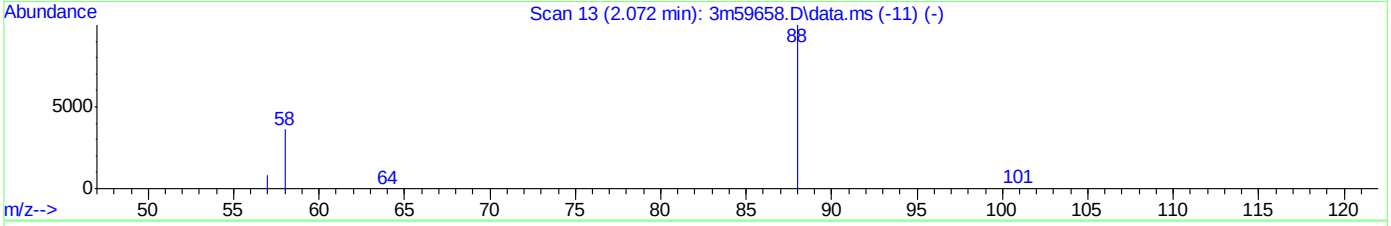
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(2) 1,4-dioxane (t)

2.305min (-0.000) 0.01ppm m

response 245

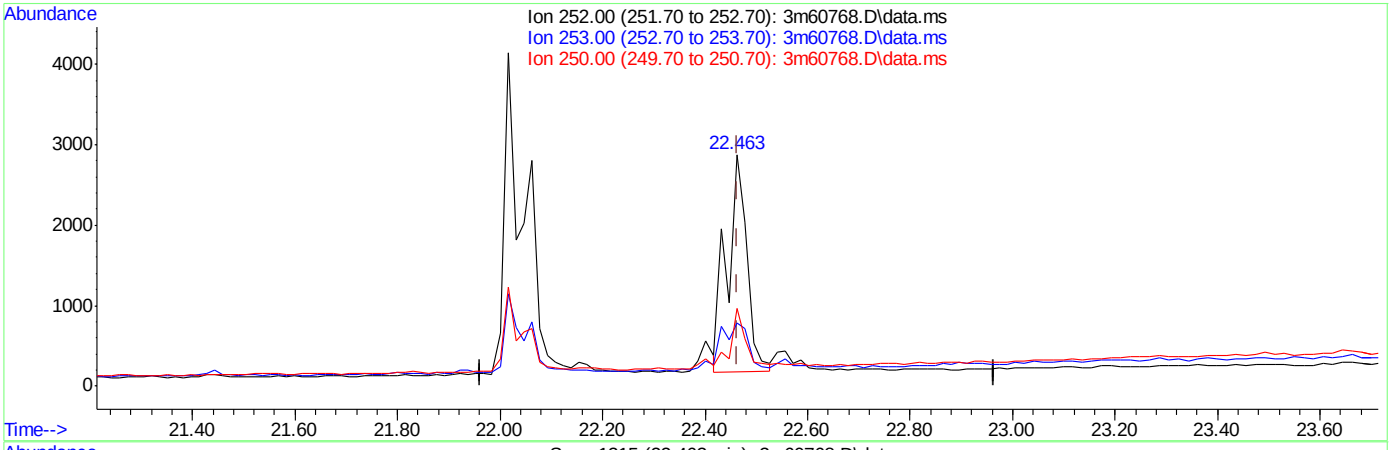
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	16.63
0.00	0.00	0.00
0.00	0.00	0.00

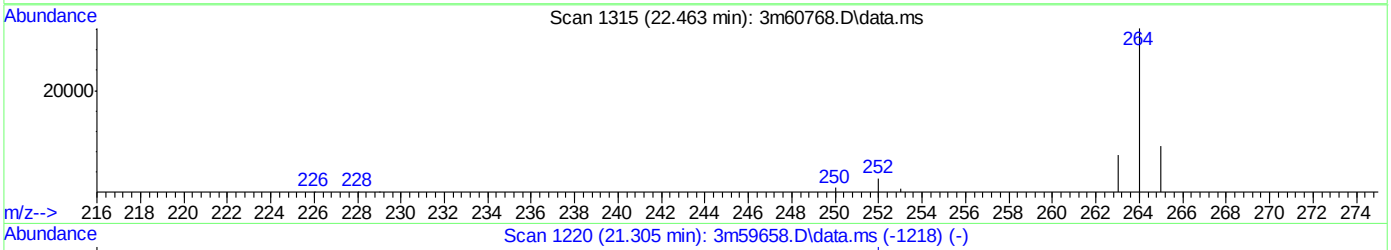
SGS ACCUTEST JC19423

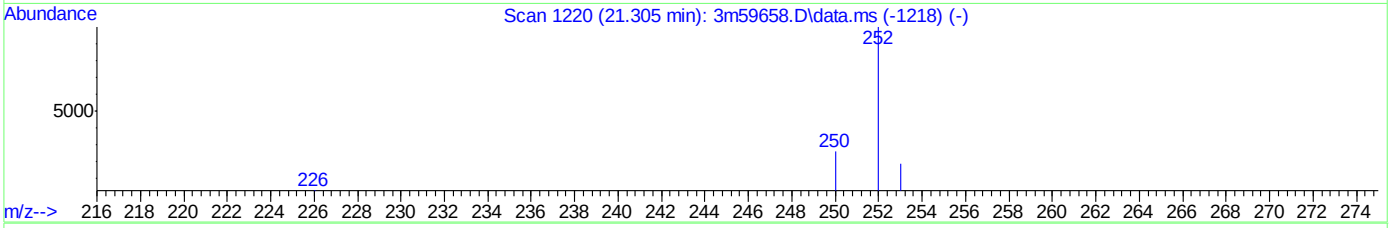
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(34) Benzo[a]pyrene (t)

22.463min (-0.000) 0.03ppm

response 7218

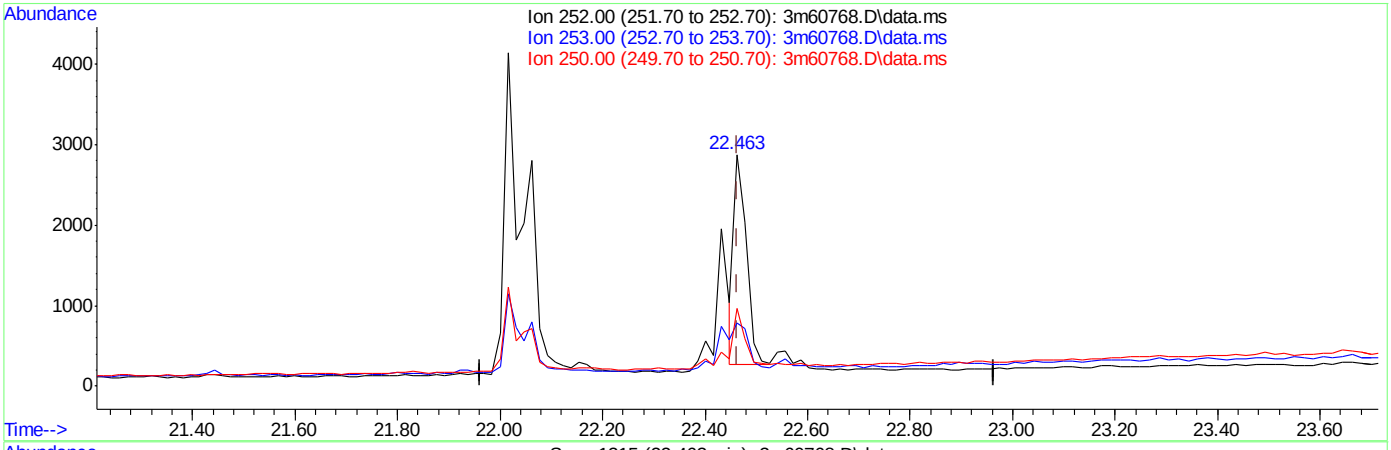
Ion	Exp%	Act%
252.00	100	100
253.00	18.80	20.93
250.00	26.10	27.47
0.00	0.00	0.00

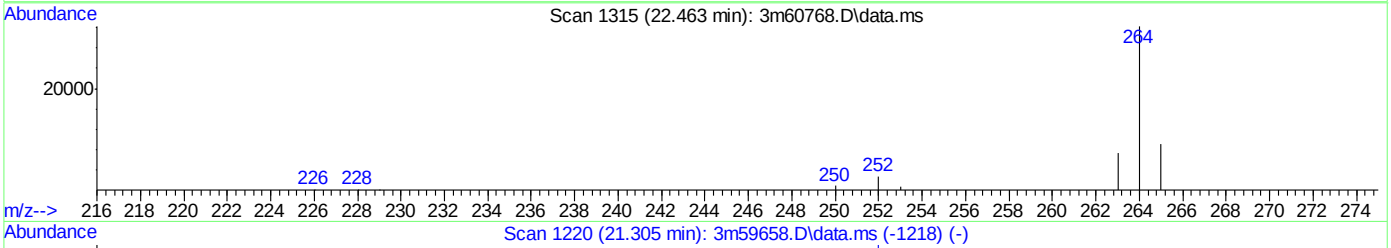
SGS ACCUTEST JC19423

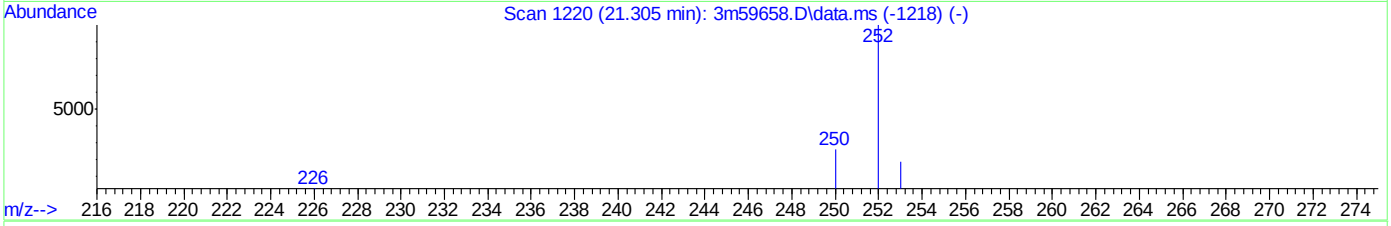
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(34) Benzo[a]pyrene (t)

22.463min (-0.000) 0.02ppm m

response 4349

Ion	Exp%	Act%
252.00	100	100
253.00	18.80	27.27
250.00	26.10	33.41
0.00	0.00	0.00

SGS ACCUTEST JC19423

3M60769.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya 04/22/16 12:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	341727	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	510798	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	894999	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	717706	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	7703	0.18	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.36%	
4) Phenol-d5	6.104	99	12728	0.18	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.36%	
7) Nitrobenzene-d5	7.726	82	11420	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
15) 2-Fluorobiphenyl	11.303	172	27514	0.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.38%	
20) 2,4,6-Tribromophenol	14.172	330	2174	0.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.26%	
28) Terphenyl-d14	18.647	244	28577	0.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.42%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	176m	0.01	ppm	
5) Phenol	6.116	94	3362	0.04	ppm	# 69
6) bis(2-Chloroethyl)ether	6.285	93	566	0.01	ppm	89
8) Nitrobenzene	7.764	77	712	0.01	ppm	83
9) Naphthalene	9.139	128	1910	0.01	ppm	98
10) Hexachlorobutadiene	9.421	225	308	0.01	ppm	98
11) 2-Methylnaphthalene	10.517	141	971	0.01	ppm	94
12) 1-Methylnaphthalene	10.702	141	1726	0.01	ppm	95
13) Hexachlorocyclopentadiene	10.846	237	382	0.02	ppm	97
16) Acenaphthylene	12.293	152	1639	0.01	ppm	99
17) Acenaphthene	12.648	153	1117	0.01	ppm	98
18) 4,6-dinitro-2-methylph...	13.852	198	146	0.01	ppm	70
19) Fluorene	13.682	166	1465	0.01	ppm	99
22) Hexachlorobenzene	14.783	284	417	0.01	ppm	95
23) Pentachlorophenol	15.200	266	877	0.04	ppm	98
24) Phenanthrene	15.602	178	2267	0.01	ppm	98
25) Anthracene	15.711	178	1713	0.01	ppm	97
26) Fluoranthene	17.874	202	4045	0.02	ppm	99
27) Pyrene	18.261	202	2880	0.01	ppm	98
29) Benzo[a]anthracene	20.347	228	3441	0.02	ppm	98
30) Chrysene	20.408	228	4214	0.02	ppm	97
32) Benzo[b]fluoranthene	22.015	252	4562	0.02	ppm	88
33) Benzo[k]fluoranthene	22.062	252	1997	0.01	ppm	94
34) Benzo[a]pyrene	22.463	252	2699	0.01	ppm	86
35) Indeno[1,2,3-cd]pyrene	23.963	276	2125	0.01	ppm	100
36) Dibenz[a,h]anthracene	24.020	278	2112	0.01	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	1927	0.01	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration

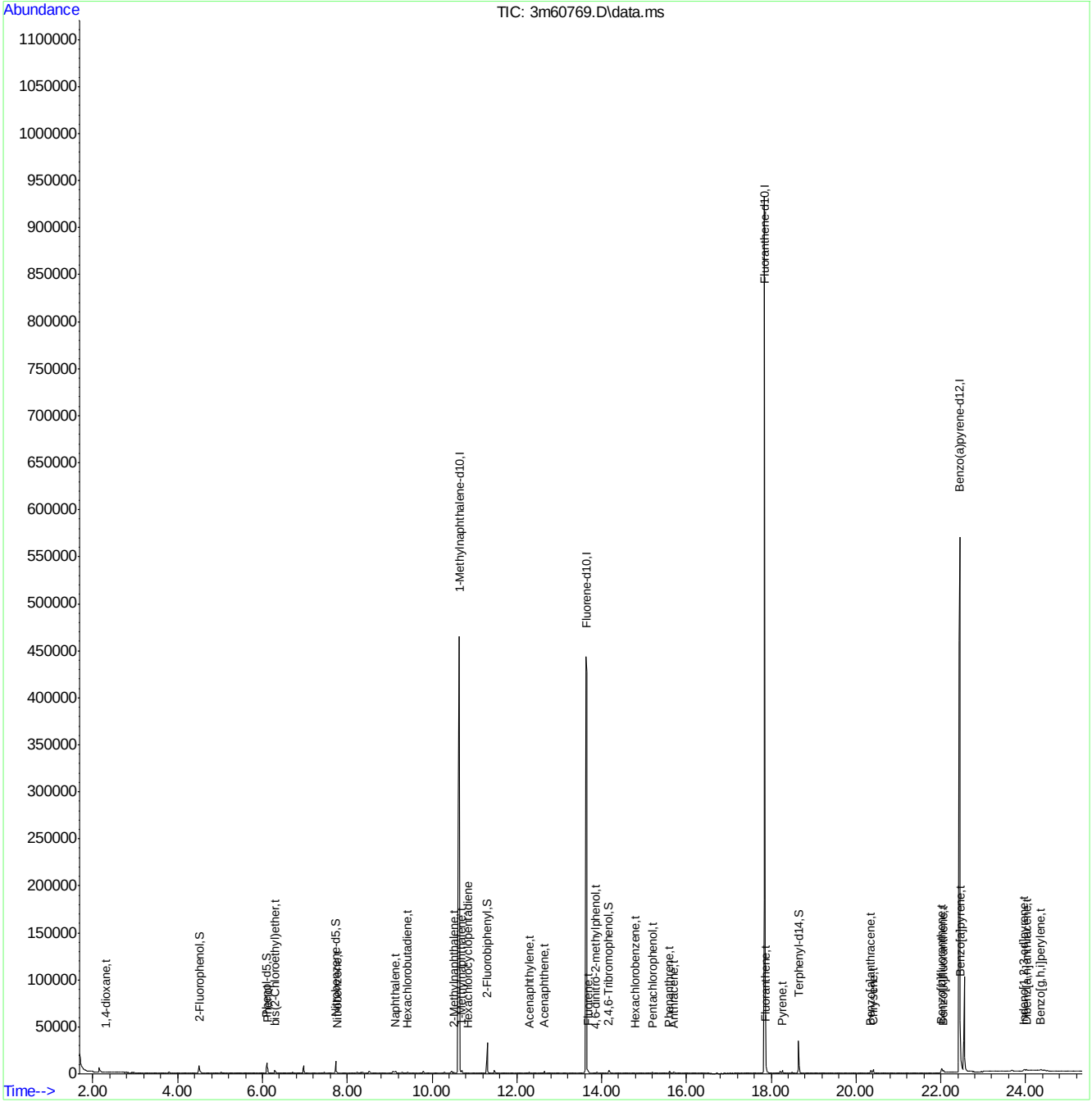
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

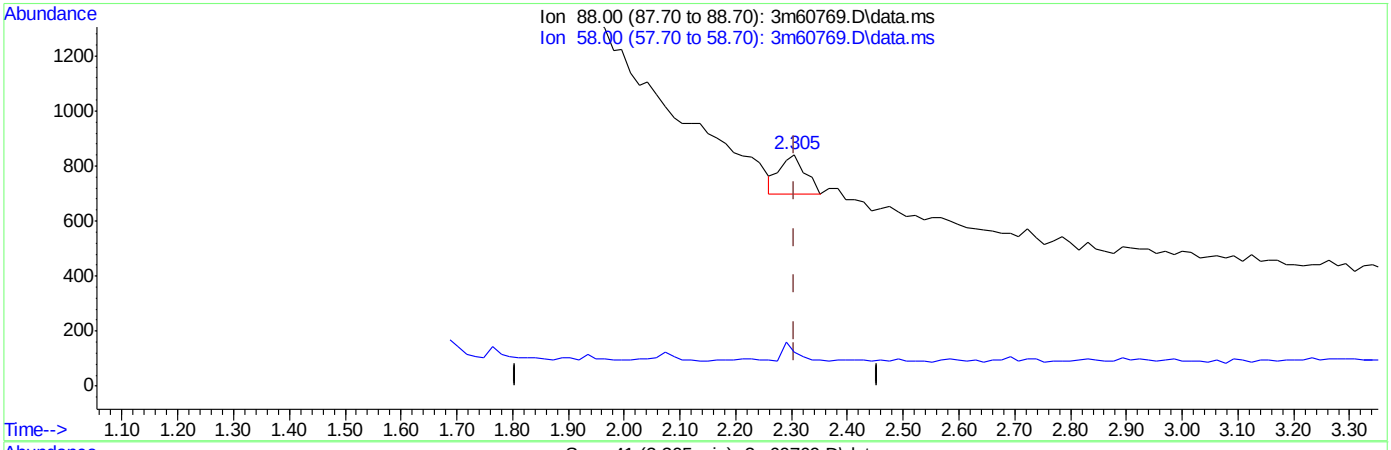
Sample Number:	E3M2855-IC2855	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M60769.D	**Analyst approved:**	04/22/16 09:15 Linsey Kirschmann
Injection Time:	04/21/16 17:49	**Supervisor approved:**	04/22/16 12:27 Nina Pandya

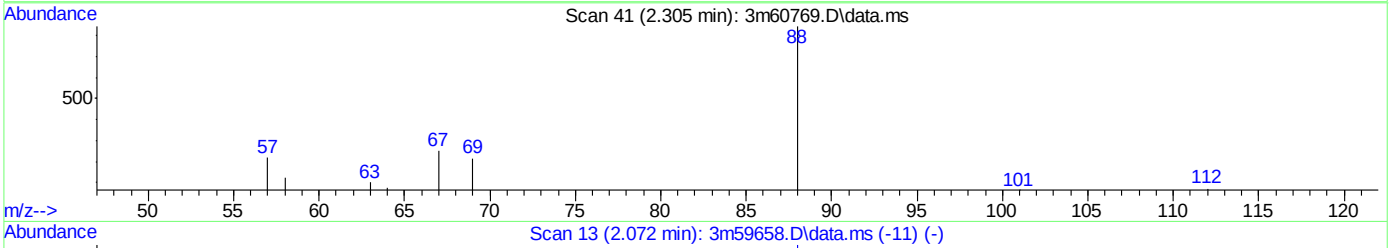
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.31	Baseline ripple

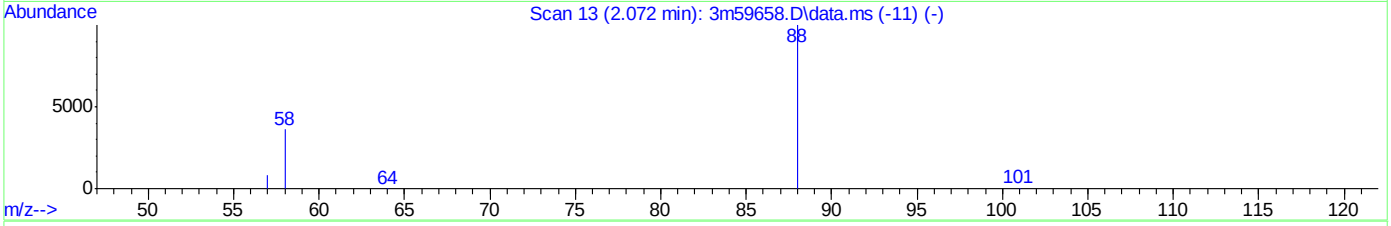
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration







TIC: 3m60769.D\data.ms

(2) 1,4-dioxane (t)

2.305min (+0.000) 0.02ppm

response 450

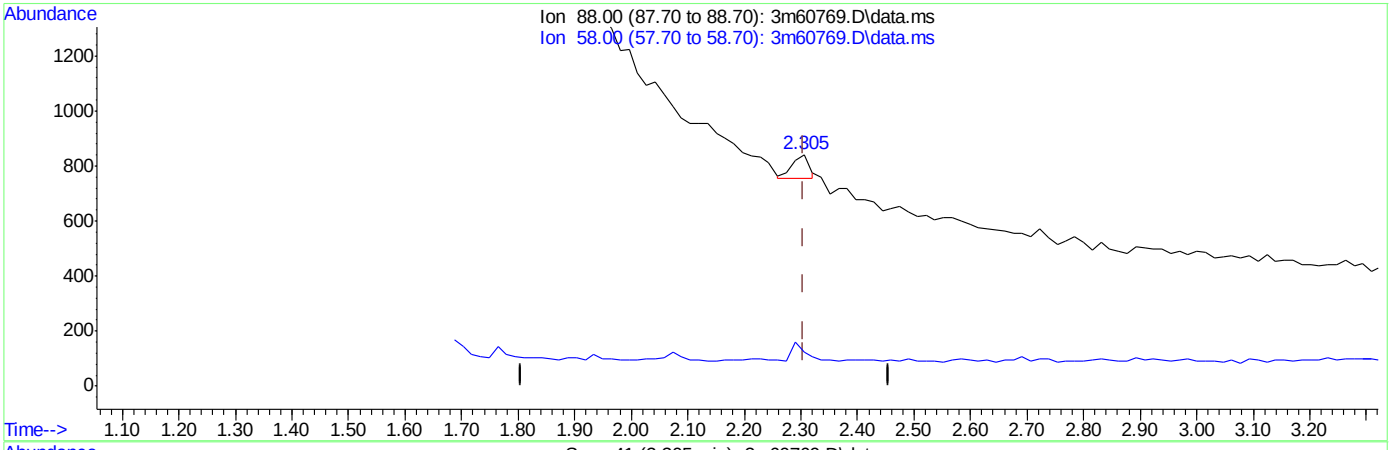
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	25.45
0.00	0.00	0.00
0.00	0.00	0.00

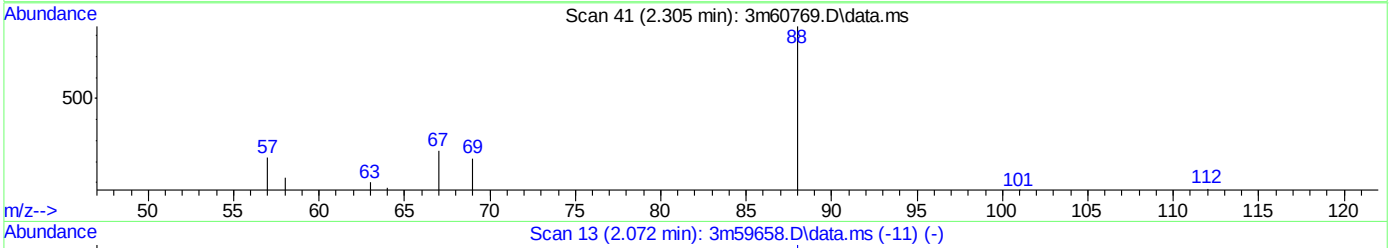
SGS ACCUTEST JC19423

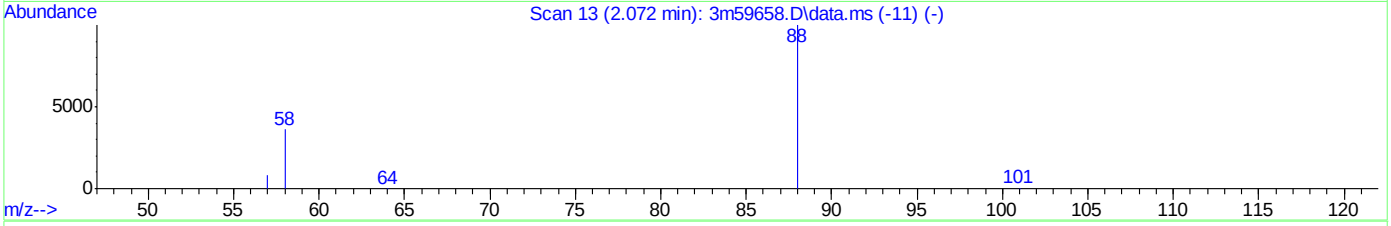
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration







TIC: 3m60769.D\data.ms

(2) 1,4-dioxane (t)

2.305min (+0.000) 0.01ppm m

response 176

Ion	Exp%	Act%
88.00	100	100
58.00	32.40	14.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60770.D
Acq On : 21 Apr 2016 6:22 pm
Operator : linseyk
Sample : ic2855-5.0
Misc : op93052a,e3m2855
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 22 08:30:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	366417	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	628480	4.00	ppm	0.00
21) Fluoranthene-d10	17.844	212	939162	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	756981	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	4214444	90.43	ppm	0.00
Spiked Amount 50.000			Recovery = 180.86%			
4) Phenol-d5	6.128	99	7328789	95.76	ppm	0.02
Spiked Amount 50.000			Recovery = 191.52%			
7) Nitrobenzene-d5	7.745	82	7395086	102.34	ppm	0.02
Spiked Amount 50.000			Recovery = 204.68%			
15) 2-Fluorobiphenyl	11.319	172	14347827	81.47	ppm	0.02
Spiked Amount 50.000			Recovery = 162.94%			
20) 2,4,6-Tribromophenol	14.191	330	1892615	94.39	ppm	0.02
Spiked Amount 50.000			Recovery = 188.78%			
28) Terphenyl-d14	18.662	244	11761490	83.98	ppm	0.02
Spiked Amount 50.000			Recovery = 167.96%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.290	88	94789	4.85	ppm	75
5) Phenol	6.140	94	1983163	23.95	ppm #	79
6) bis(2-Chloroethyl)ether	6.298	93	266705	4.16	ppm #	60
8) Nitrobenzene	7.764	77	406472	5.38	ppm #	58
9) Naphthalene	9.139	128	1024731	5.04	ppm	98
10) Hexachlorobutadiene	9.421	225	174841	4.87	ppm	95
11) 2-Methylnaphthalene	10.517	141	553815	5.26	ppm	96
12) 1-Methylnaphthalene	10.702	141	647057	4.41	ppm	93
13) Hexachlorocyclopentadiene	10.846	237	345119	13.01	ppm	95
16) Acenaphthylene	12.293	152	1074573	4.94	ppm	99
17) Acenaphthene	12.648	153	680855	4.63	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	689664	56.92	ppm	74
19) Fluorene	13.682	166	778408	4.36	ppm	94
22) Hexachlorobenzene	14.783	284	229525	5.21	ppm	94
23) Pentachlorophenol	15.201	266	786510	32.34	ppm	95
24) Phenanthrene	15.603	178	1190802	5.25	ppm	99
25) Anthracene	15.711	178	1181627	5.75	ppm	98
26) Fluoranthene	17.874	202	1318777	5.01	ppm	99
27) Pyrene	18.261	202	1382848	5.27	ppm	98
29) Benzo[a]anthracene	20.347	228	1195931	5.01	ppm	96
30) Chrysene	20.408	228	1263858	5.17	ppm	98
32) Benzo[b]fluoranthene	22.015	252	1201158	4.18	ppm	95
33) Benzo[k]fluoranthene	22.062	252	1191473	5.12	ppm	97
34) Benzo[a]pyrene	22.463	252	1113412	4.67	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.982	276	1248948	5.29	ppm	89
36) Dibenz[a,h]anthracene	24.020	278	1051200	5.43	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	1074162	5.23	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60770.D
Acq On : 21 Apr 2016 6:22 pm
Operator : linseyk
Sample : ic2855-5.0
Misc : op93052a,e3m2855
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 22 08:30:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:48 2016
Response via : Initial Calibration

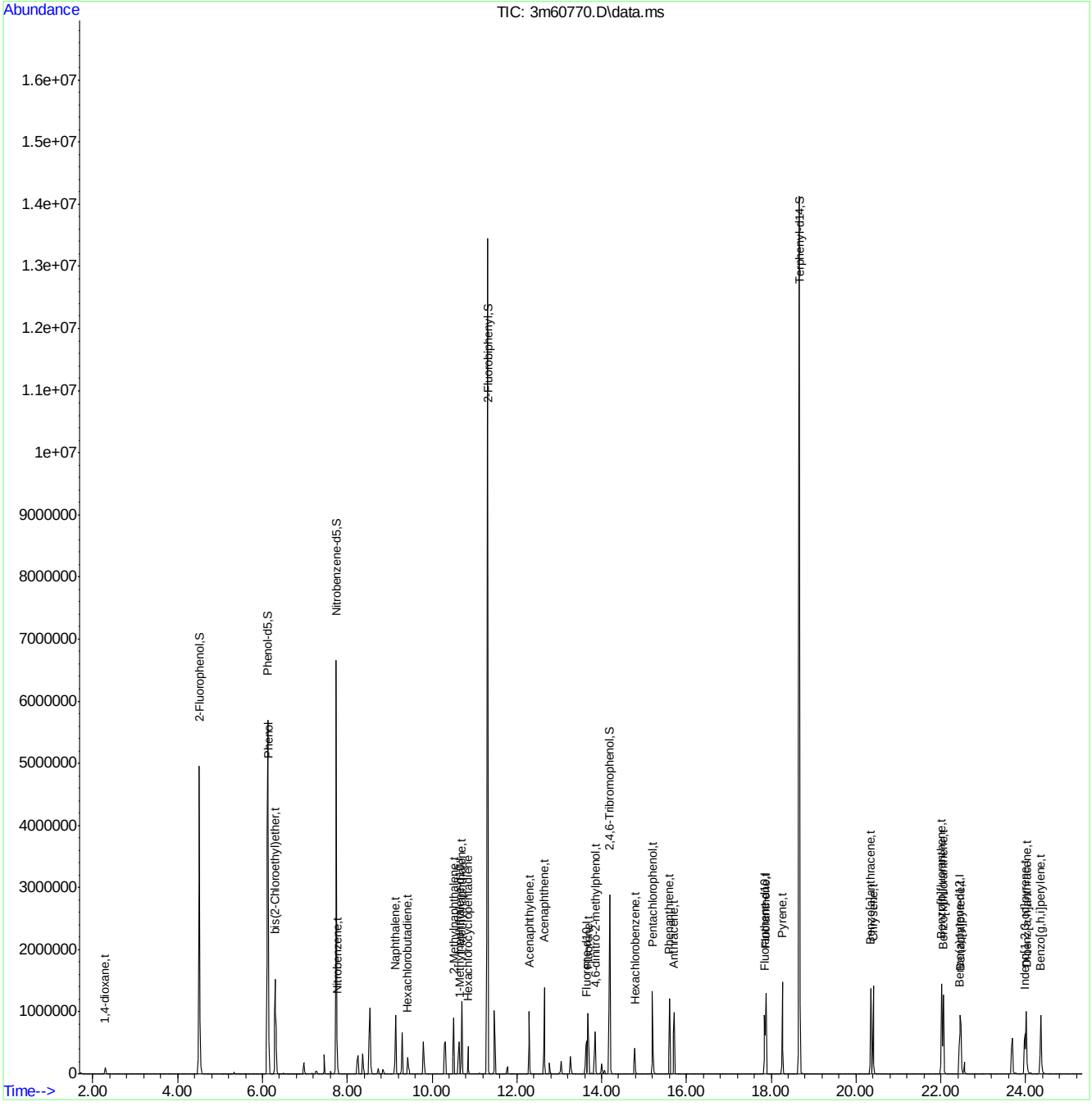
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60770.D
Acq On : 21 Apr 2016 6:22 pm
Operator : linseyk
Sample : ic2855-5.0
Misc : op93052a,e3m2855
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 22 08:30:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:48 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60771.D
Acq On : 21 Apr 2016 6:55 pm
Operator : linseyk
Sample : ic2855-2.5
Misc : op93052a,e3m2855
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 22 08:31:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:31:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	385250	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	616747	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	966990	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	773663	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	2363254	48.90	ppm	0.00
Spiked Amount 50.000			Recovery = 97.80%			
4) Phenol-d5	6.116	99	3871836	48.37	ppm	-0.01
Spiked Amount 50.000			Recovery = 96.74%			
7) Nitrobenzene-d5	7.726	82	3072767	40.29	ppm	-0.02
Spiked Amount 50.000			Recovery = 80.58%			
15) 2-Fluorobiphenyl	11.303	172	7301000	42.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 84.50%			
20) 2,4,6-Tribromophenol	14.191	330	926725	47.63	ppm	0.00
Spiked Amount 50.000			Recovery = 95.26%			
28) Terphenyl-d14	18.662	244	6991573	49.82	ppm	0.00
Spiked Amount 50.000			Recovery = 99.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.289	88	48881	2.39	ppm #	59
5) Phenol	6.128	94	1024552	11.84	ppm #	67
6) bis(2-Chloroethyl)ether	6.285	93	142356	2.16	ppm	77
8) Nitrobenzene	7.764	77	205619	2.56	ppm	76
9) Naphthalene	9.138	128	535435	2.50	ppm	98
10) Hexachlorobutadiene	9.421	225	87273	2.32	ppm	94
11) 2-Methylnaphthalene	10.517	141	279805	2.51	ppm	94
12) 1-Methylnaphthalene	10.702	141	340057	2.24	ppm	91
13) Hexachlorocyclopentadiene	10.846	237	158162	5.40	ppm	93
16) Acenaphthylene	12.293	152	544103	2.55	ppm	98
17) Acenaphthene	12.648	153	350568	2.45	ppm	95
18) 4,6-dinitro-2-methylph...	13.851	198	297531	19.93	ppm	92
19) Fluorene	13.682	166	399367	2.31	ppm	96
22) Hexachlorobenzene	14.783	284	115675	2.53	ppm	95
23) Pentachlorophenol	15.200	266	400828	15.26	ppm	98
24) Phenanthrene	15.602	178	602735	2.56	ppm	99
25) Anthracene	15.711	178	589914	2.71	ppm	98
26) Fluoranthene	17.874	202	671708	2.48	ppm	99
27) Pyrene	18.261	202	685271	2.51	ppm	99
29) Benzo[a]anthracene	20.346	228	610065	2.48	ppm	98
30) Chrysene	20.408	228	651165	2.57	ppm	98
32) Benzo[b]fluoranthene	22.015	252	621501	2.16	ppm	98
33) Benzo[k]fluoranthene	22.061	252	586018	2.45	ppm	99
34) Benzo[a]pyrene	22.463	252	565533	2.34	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	624468	2.57	ppm	97
36) Dibenz[a,h]anthracene	24.020	278	520048	2.60	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	542545	2.57	ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60771.D
Acq On : 21 Apr 2016 6:55 pm
Operator : linseyk
Sample : ic2855-2.5
Misc : op93052a,e3m2855
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 22 08:31:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:31:18 2016
Response via : Initial Calibration

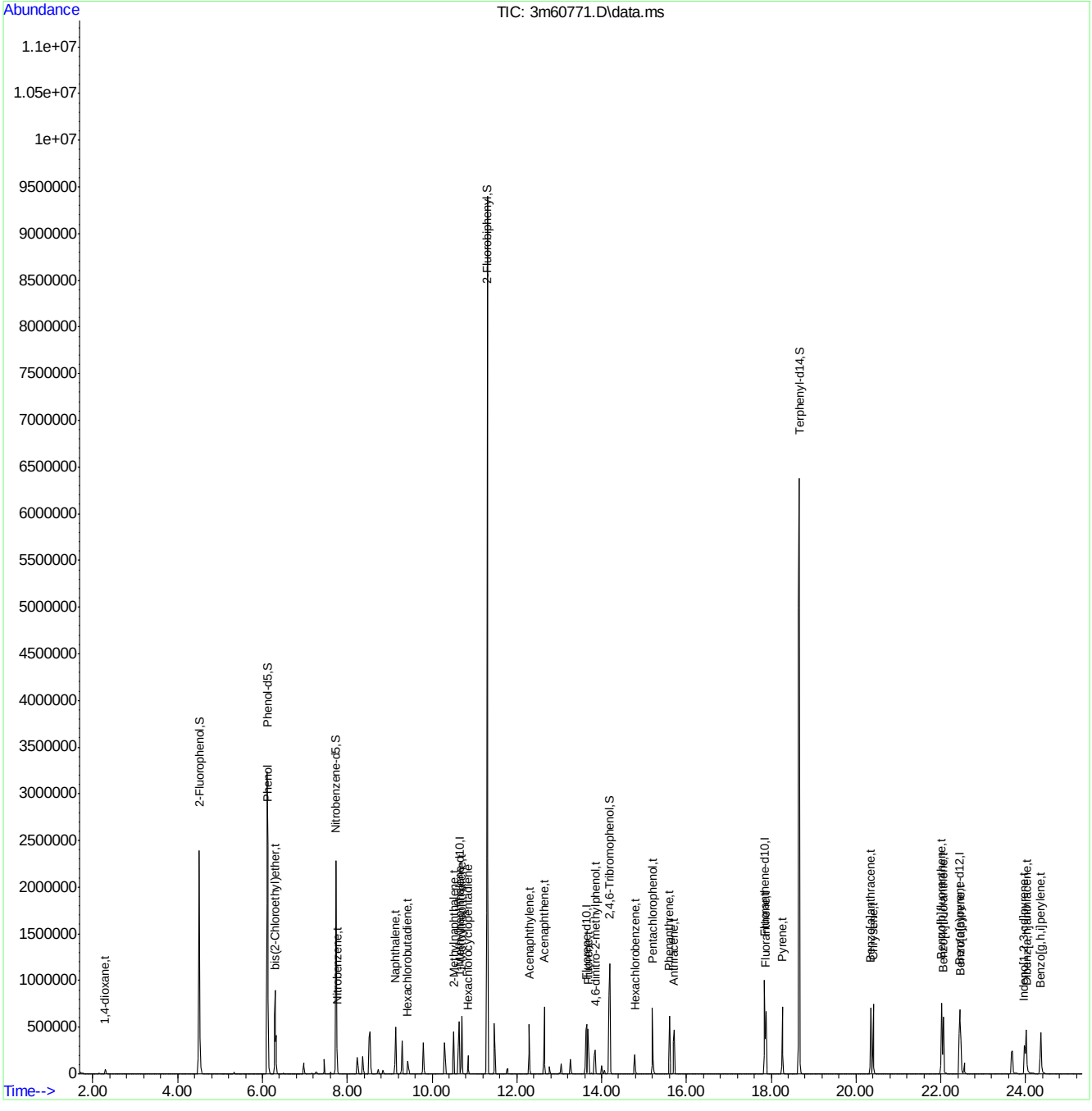
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60771.D
Acq On : 21 Apr 2016 6:55 pm
Operator : linseyk
Sample : ic2855-2.5
Misc : op93052a,e3m2855
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 22 08:31:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:31:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60772.D
Acq On : 21 Apr 2016 7:27 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 22 08:56:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	468880	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	745589	4.00	ppm	0.00
21) Fluoranthene-d10	17.844	212	1195677	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	940216	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
4) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) Phenol	6.128	94	476638	4.56	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	87949	3.84	ppm	95
23) Pentachlorophenol	15.201	266	168629	4.34	ppm	92

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

7.6.40

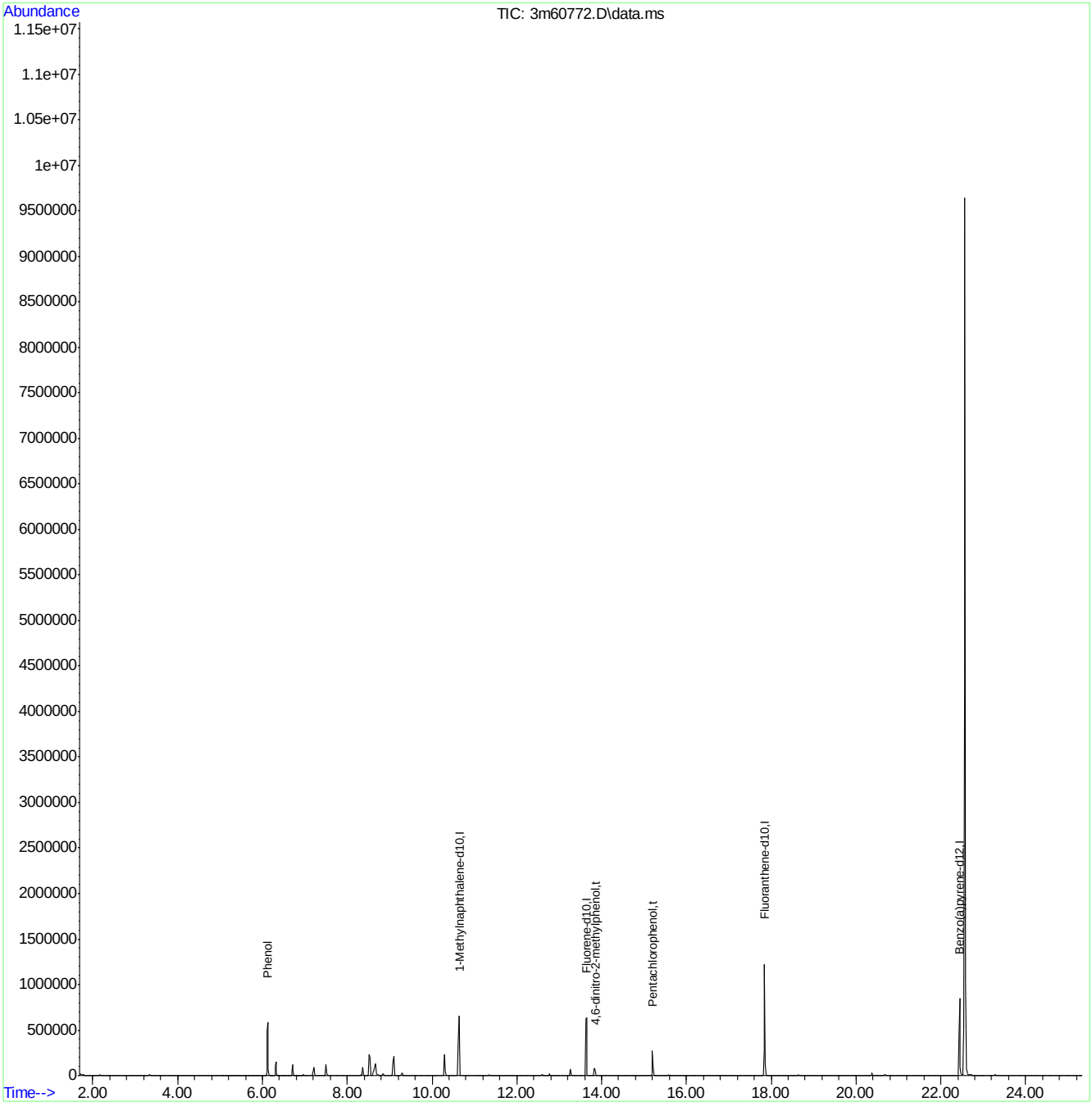
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60772.D
Acq On : 21 Apr 2016 7:27 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 22 08:56:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:56:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60773.D
Acq On : 21 Apr 2016 8:00 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 22 08:58:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.640	150	381667	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	568016	4.00 ppm	0.00
21) Fluoranthene-d10	17.843	212	891736	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	666840	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.320	88	21008	1.07 ppm	93
6) bis(2-Chloroethyl)ether	6.285	93	64147	1.00 ppm	87
8) Nitrobenzene	7.764	77	65386	0.82 ppm	100
9) Naphthalene	9.138	128	240749	1.14 ppm	99
10) Hexachlorobutadiene	9.421	225	41080	1.11 ppm	99
11) 2-Methylnaphthalene	10.517	141	115129	1.04 ppm	98
16) Acenaphthylene	12.293	152	209375	1.06 ppm	99
17) Acenaphthene	12.648	153	152795	1.16 ppm	96
19) Fluorene	13.682	166	170302	1.08 ppm	100
22) Hexachlorobenzene	14.783	284	47590	1.13 ppm	96
24) Phenanthrene	15.602	178	253476	1.16 ppm	95
25) Anthracene	15.711	178	221984	1.15 ppm	98
26) Fluoranthene	17.874	202	279548	1.02 ppm	99
27) Pyrene	18.261	202	275135	1.08 ppm	98
29) Benzo[a]anthracene	20.362	228	271481	1.11 ppm	94
30) Chrysene	20.408	228	239361	1.02 ppm	94
32) Benzo[b]fluoranthene	22.015	252	207742	0.94 ppm	97
33) Benzo[k]fluoranthene	22.061	252	230502	1.12 ppm	98
34) Benzo[a]pyrene	22.463	252	199534	0.97 ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	218688	1.04 ppm	98
36) Dibenz[a,h]anthracene	24.020	278	173448	1.00 ppm	100
37) Benzo[g,h,i]perylene	24.358	276	191304	1.05 ppm	100

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

7.6.41

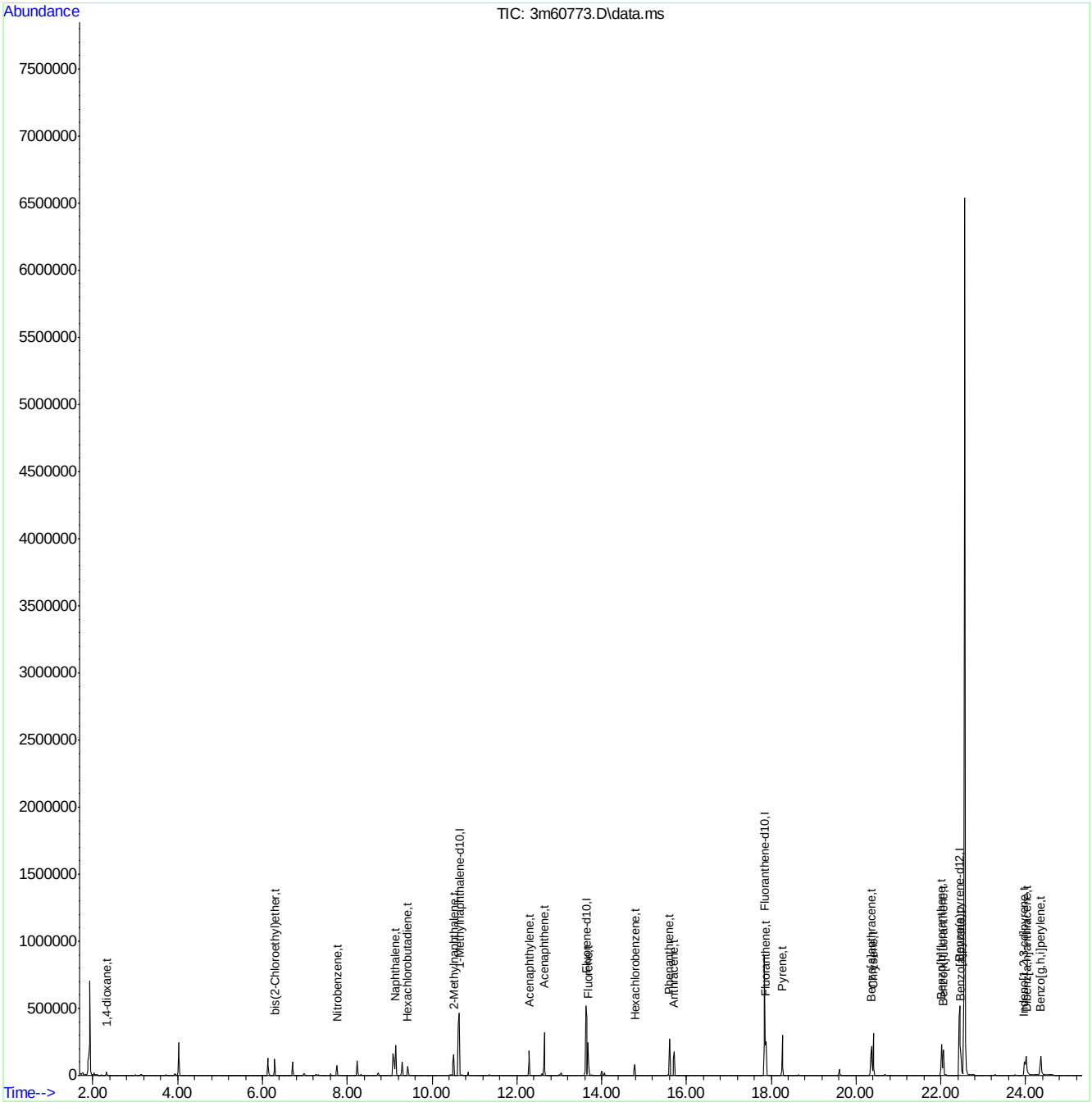
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60773.D
Acq On : 21 Apr 2016 8:00 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 22 08:58:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:58:28 2016 RPT1 Page: 2

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60774.D
Acq On : 21 Apr 2016 8:35 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 22 08:58:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.640	150	433101	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	614407	4.00 ppm	0.00
21) Fluoranthene-d10	17.843	212	1087112	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	854436	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.289	88	25472	1.14 ppm	95
12) 1-Methylnaphthalene	10.702	141	161130	0.95 ppm	94
13) Hexachlorocyclopentadiene	10.845	237	34911	1.05 ppm	99

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

7.6.42

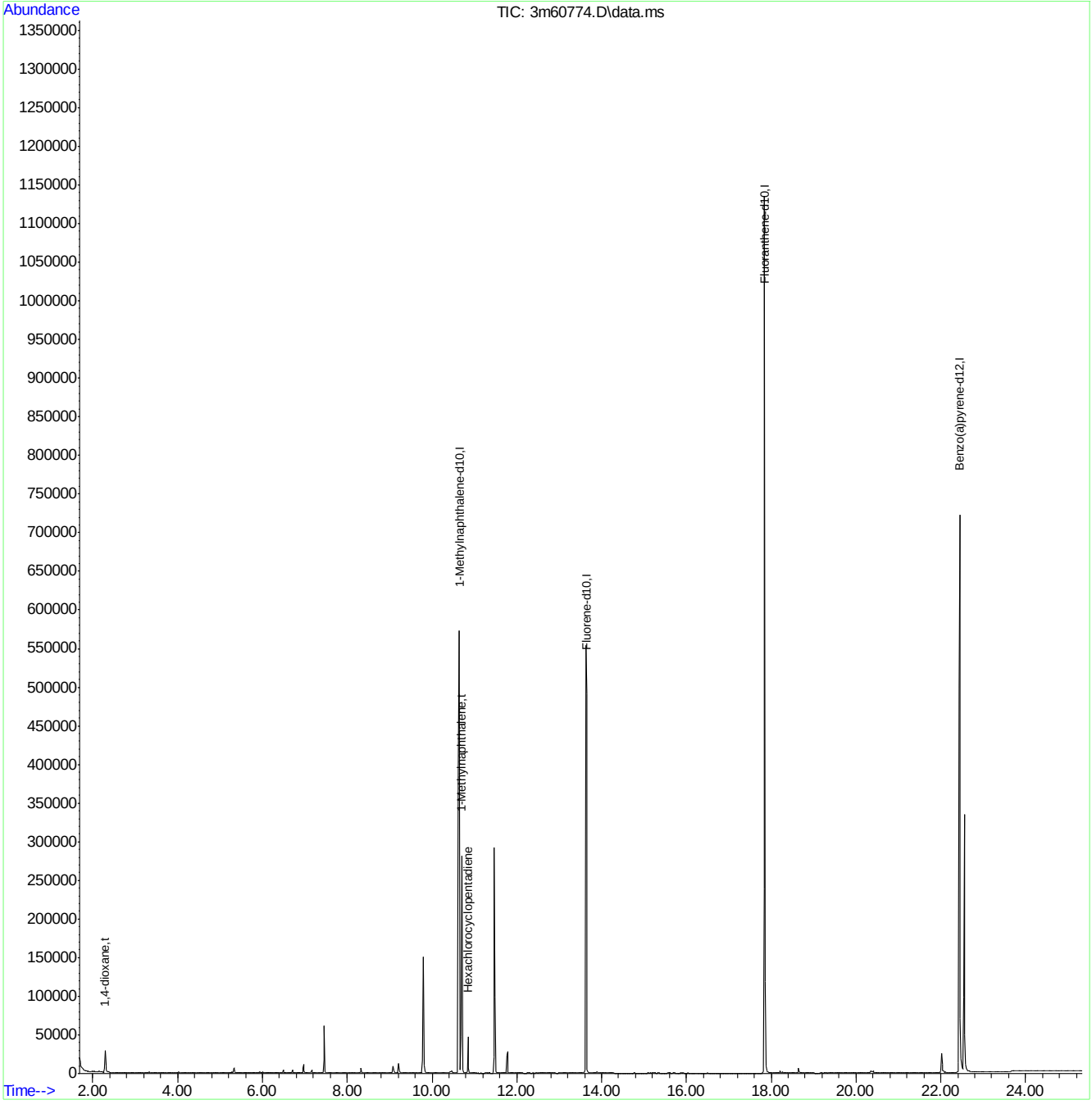
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60774.D
Acq On : 21 Apr 2016 8:35 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 22 08:58:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:58:16 2016 RPT1 Page: 2

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m60993.D
Acq On : 2 May 2016 12:57 pm
Operator : linseyk
Sample : cc2855-1.0
Misc : op93422a,e3m2868
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 13:21:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	364879	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	526575	4.00	ppm	-0.16
21) Fluoranthene-d10	17.700	212	877341	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.289	264	709168	4.00	ppm	-0.16
System Monitoring Compounds						
3) 2-Fluorophenol	4.399	112	817956	17.92	ppm	-0.11
Spiked Amount 50.000			Recovery = 35.84%			
4) Phenol-d5	6.000	99	1354450	17.93	ppm	-0.09
Spiked Amount 50.000			Recovery = 35.86%			
7) Nitrobenzene-d5	7.587	82	1123280	15.99	ppm	-0.12
Spiked Amount 50.000			Recovery = 31.98%			
15) 2-Fluorobiphenyl	11.160	172	2634218	18.21	ppm	-0.14
Spiked Amount 50.000			Recovery = 36.42%			
20) 2,4,6-Tribromophenol	14.033	330	330173	20.03	ppm	-0.14
Spiked Amount 50.000			Recovery = 40.06%			
28) Terphenyl-d14	18.504	244	2358130	18.53	ppm	-0.16
Spiked Amount 50.000			Recovery = 37.06%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.189	88	17616	0.93	ppm #	14
5) Phenol	6.024	94	359593	4.42	ppm #	84
6) bis(2-Chloroethyl)ether	6.157	93	51486	0.84	ppm	78
8) Nitrobenzene	7.625	77	67651	0.89	ppm	74
9) Naphthalene	8.999	128	168322	0.83	ppm	99
10) Hexachlorobutadiene	9.282	225	34082	0.96	ppm	92
11) 2-Methylnaphthalene	10.365	141	114098	1.08	ppm #	74
12) 1-Methylnaphthalene	10.549	141	115790	0.81	ppm	75
13) Hexachlorocyclopentadiene	10.714	237	49192	1.75	ppm #	74
16) Acenaphthylene	12.134	152	181795	1.00	ppm	89
17) Acenaphthene	12.490	153	117487	0.97	ppm	80
18) 4,6-dinitro-2-methylph...	13.712	198	81277	4.78	ppm	95
19) Fluorene	13.543	166	143568	0.98	ppm	78
22) Hexachlorobenzene	14.624	284	39935	0.96	ppm	87
23) Pentachlorophenol	15.057	266	133022	4.65	ppm	96
24) Phenanthrene	15.444	178	204953	0.95	ppm #	57
25) Anthracene	15.552	178	195853	1.03	ppm	95
26) Fluoranthene	17.731	202	227534	0.84	ppm	96
27) Pyrene	18.118	202	240401	0.96	ppm	98
29) Benzo[a]anthracene	20.204	228	218302	0.91	ppm	98
30) Chrysene	20.265	228	220728	0.96	ppm	98
32) Benzo[b]fluoranthene	21.872	252	222445	0.94	ppm	99
33) Benzo[k]fluoranthene	21.919	252	199952	0.92	ppm	99
34) Benzo[a]pyrene	22.320	252	200310	0.91	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.806	276	230702	1.03	ppm	90
36) Dibenz[a,h]anthracene	23.843	278	198618	1.08	ppm	100
37) Benzo[g,h,i]perylene	24.163	276	201136	1.04	ppm	98

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m60993.D
Acq On : 2 May 2016 12:57 pm
Operator : linseyk
Sample : cc2855-1.0
Misc : op93422a,e3m2868
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 13:21:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

7.6.43

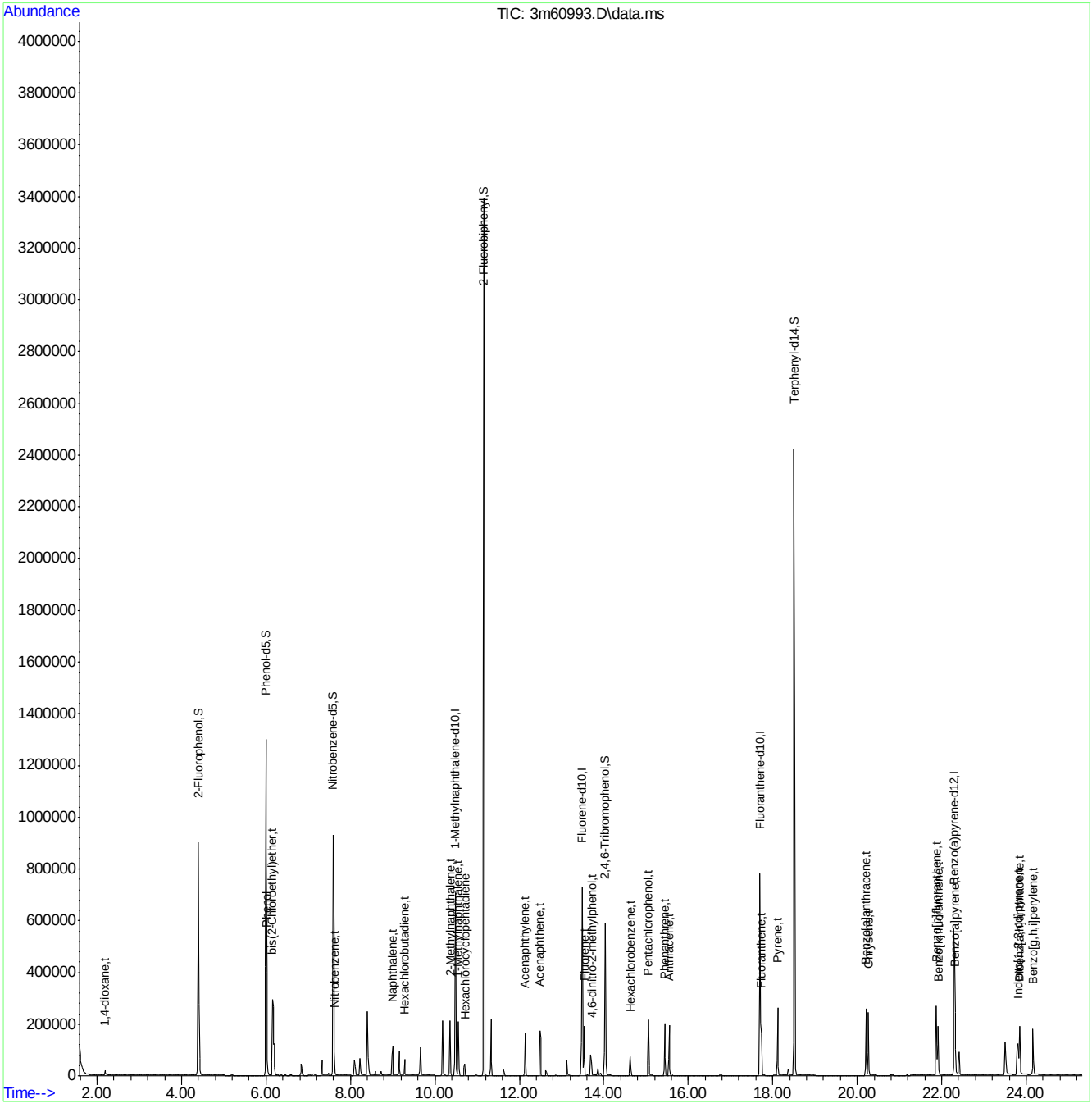
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2868\
Data File : 3m60993.D
Acq On : 2 May 2016 12:57 pm
Operator : linseyk
Sample : cc2855-1.0
Misc : op93422a,e3m2868
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 13:21:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



M3M2855SIM.M Mon May 02 15:11:29 2016 RPT1 Page: 3

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61091.D
Acq On : 5 May 2016 12:08 pm
Operator : linseyk
Sample : cc2855-1
Misc : op93609a,e3m2872
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 12:32:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 09:51:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.447	150	274802	4.00	ppm	-0.17
14) Fluorene-d10	13.449	176	472051	4.00	ppm	-0.20
21) Fluoranthene-d10	17.670	212	786338	4.00	ppm	-0.19
31) Benzo(a)pyrene-d12	22.274	264	652793	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.384	112	770650	22.42	ppm	-0.12
Spiked Amount 50.000			Recovery = 44.84%			
4) Phenol-d5	5.988	99	1229190	21.61	ppm	-0.10
Spiked Amount 50.000			Recovery = 43.22%			
7) Nitrobenzene-d5	7.568	82	1160649	21.94	ppm	-0.14
Spiked Amount 50.000			Recovery = 43.88%			
15) 2-Fluorobiphenyl	11.130	172	2470261	19.04	ppm	-0.17
Spiked Amount 50.000			Recovery = 38.08%			
20) 2,4,6-Tribromophenol	13.995	330	278702	18.86	ppm	-0.18
Spiked Amount 50.000			Recovery = 37.72%			
28) Terphenyl-d14	18.473	244	2253592	19.76	ppm	-0.19
Spiked Amount 50.000			Recovery = 39.52%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.174	88	14111	0.99	ppm	79
5) Phenol	6.012	94	316490	5.16	ppm #	77
6) bis(2-Chloroethyl)ether	6.133	93	45444	0.98	ppm	76
8) Nitrobenzene	7.606	77	56580	0.99	ppm	86
9) Naphthalene	8.962	128	167610	1.10	ppm	95
10) Hexachlorobutadiene	9.244	225	28272	1.06	ppm	94
11) 2-Methylnaphthalene	10.345	141	81785	1.03	ppm	97
12) 1-Methylnaphthalene	10.529	141	91781	0.86	ppm	98
13) Hexachlorocyclopentadiene	10.673	237	54783	2.59	ppm	91
16) Acenaphthylene	12.103	152	161239	0.99	ppm	90
17) Acenaphthene	12.459	153	103809	0.95	ppm	81
18) 4,6-dinitro-2-methylph...	13.675	198	76360	4.97	ppm #	13
19) Fluorene	13.505	166	130400	1.00	ppm	89
22) Hexachlorobenzene	14.594	284	36115	0.97	ppm	90
23) Pentachlorophenol	15.027	266	110987	4.34	ppm	97
24) Phenanthrene	15.413	178	182106	0.95	ppm #	57
25) Anthracene	15.521	178	173519	1.02	ppm	96
26) Fluoranthene	17.701	202	201166	0.83	ppm	98
27) Pyrene	18.087	202	212068	0.94	ppm	98
29) Benzo[a]anthracene	20.173	228	186295	0.86	ppm	93
30) Chrysene	20.235	228	197796	0.96	ppm	94
32) Benzo[b]fluoranthene	21.841	252	228153	1.05	ppm	99
33) Benzo[k]fluoranthene	21.888	252	147133	0.73	ppm	97
34) Benzo[a]pyrene	22.305	252	174708	0.86	ppm	86
35) Indeno[1,2,3-cd]pyrene	23.768	276	209050	1.02	ppm	99
36) Dibenz[a,h]anthracene	23.806	278	149164	0.88	ppm	100
37) Benzo[g,h,i]perylene	24.125	276	174381	0.98	ppm	97

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61091.D
Acq On : 5 May 2016 12:08 pm
Operator : linseyk
Sample : cc2855-1
Misc : op93609a,e3m2872
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 12:32:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 09:51:04 2016
Response via : Initial Calibration

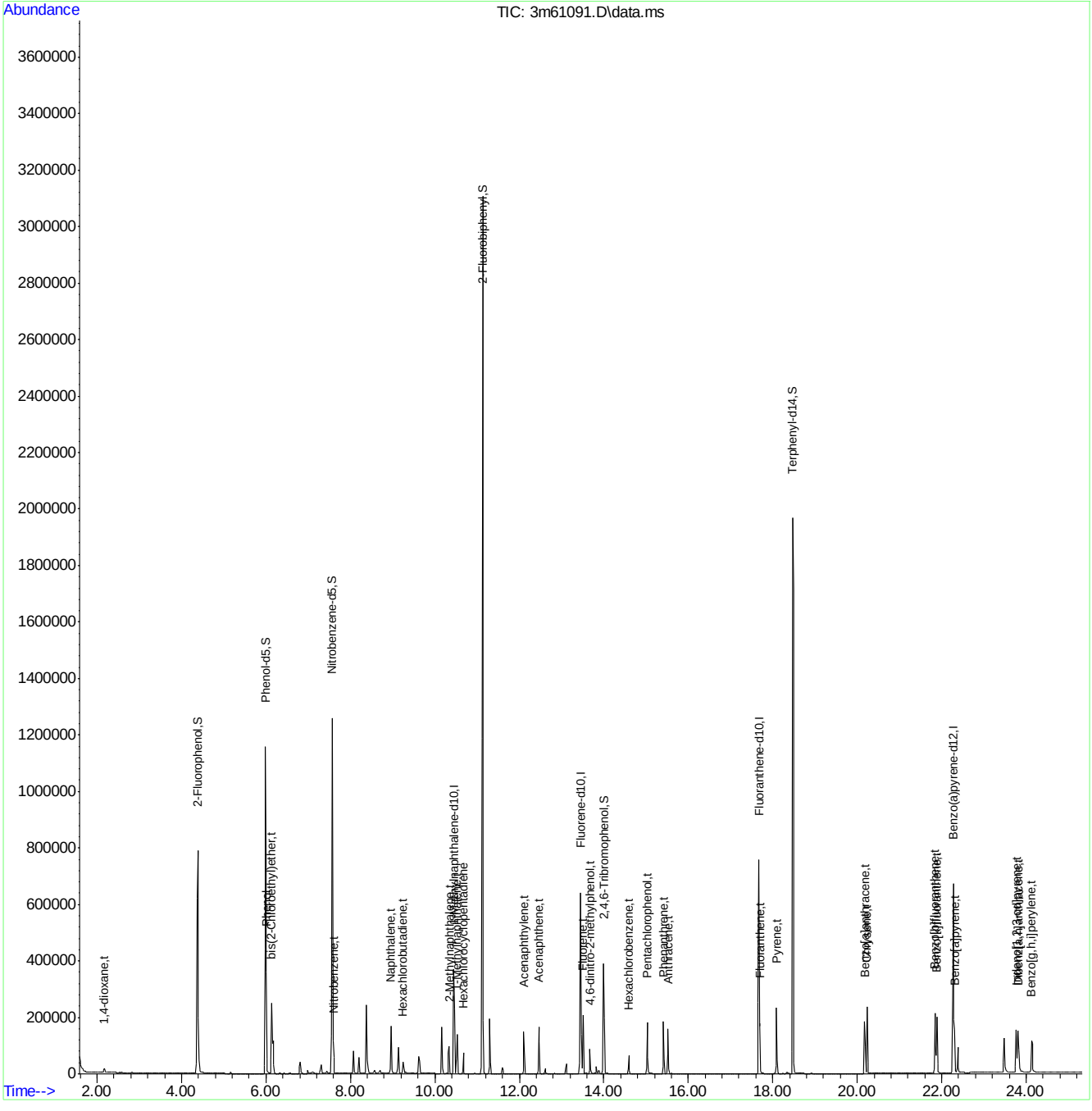
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61091.D
Acq On : 5 May 2016 12:08 pm
Operator : linseyk
Sample : cc2855-1
Misc : op93609a,e3m2872
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 12:32:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 09:51:04 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61121.D
Acq On : 6 May 2016 9:29 am
Operator : linseyk
Sample : cc2855-1
Misc : op93629a,e3m2874
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 06 14:14:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 14:14:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.426	150	264557	4.00	ppm	0.00
14) Fluorene-d10	13.430	176	412849	4.00	ppm	0.00
21) Fluoranthene-d10	17.639	212	678083	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.243	264	581670	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.368	112	648660	19.60	ppm	-0.06
Spiked Amount 50.000			Recovery = 39.20%			
4) Phenol-d5	5.976	99	1042279	19.03	ppm	0.00
Spiked Amount 50.000			Recovery = 38.06%			
7) Nitrobenzene-d5	7.549	82	906938	17.81	ppm	-0.02
Spiked Amount 50.000			Recovery = 35.62%			
15) 2-Fluorobiphenyl	11.098	172	2112839	18.62	ppm	-0.03
Spiked Amount 50.000			Recovery = 37.24%			
20) 2,4,6-Tribromophenol	13.976	330	257854	19.96	ppm	0.03
Spiked Amount 50.000			Recovery = 39.92%			
28) Terphenyl-d14	18.458	244	2094663	21.30	ppm	0.02
Spiked Amount 50.000			Recovery = 42.60%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.159	88	13602	1.00	ppm #	33
5) Phenol	5.988	94	271784	4.60	ppm #	76
6) bis(2-Chloroethyl)ether	6.109	93	38467	0.86	ppm	72
8) Nitrobenzene	7.568	77	45961	0.83	ppm #	51
9) Naphthalene	8.943	128	135731	0.92	ppm	100
10) Hexachlorobutadiene	9.225	225	26631	1.04	ppm	92
11) 2-Methylnaphthalene	10.303	141	73015	0.95	ppm #	55
12) 1-Methylnaphthalene	10.488	141	75734	0.73	ppm #	56
13) Hexachlorocyclopentadiene	10.652	237	36962	1.82	ppm	82
16) Acenaphthylene	12.088	152	133006	0.93	ppm	98
17) Acenaphthene	12.443	153	90456	0.95	ppm	100
18) 4,6-dinitro-2-methylph...	13.656	198	63805	4.78	ppm	55
19) Fluorene	13.486	166	106147	0.93	ppm	80
22) Hexachlorobenzene	14.563	284	31051	0.97	ppm	78
23) Pentachlorophenol	15.011	266	89032	4.05	ppm	94
24) Phenanthrene	15.397	178	157822	0.95	ppm	99
25) Anthracene	15.490	178	142292	0.97	ppm	90
26) Fluoranthene	17.670	202	183856	0.88	ppm	94
27) Pyrene	18.071	202	177342	0.91	ppm	94
29) Benzo[a]anthracene	20.157	228	160784	0.86	ppm	97
30) Chrysene	20.219	228	166088	0.93	ppm	85
32) Benzo[b]fluoranthene	21.826	252	178397	0.92	ppm	95
33) Benzo[k]fluoranthene	21.872	252	163415	0.91	ppm	94
34) Benzo[a]pyrene	22.274	252	159805	0.89	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.749	276	190184	1.04	ppm	97
36) Dibenz[a,h]anthracene	23.787	278	142892	0.95	ppm	69
37) Benzo[g,h,i]perylene	24.106	276	164417	1.03	ppm	92

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61121.D
Acq On : 6 May 2016 9:29 am
Operator : linseyk
Sample : cc2855-1
Misc : op93629a,e3m2874
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 06 14:14:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 14:14:16 2016
Response via : Initial Calibration

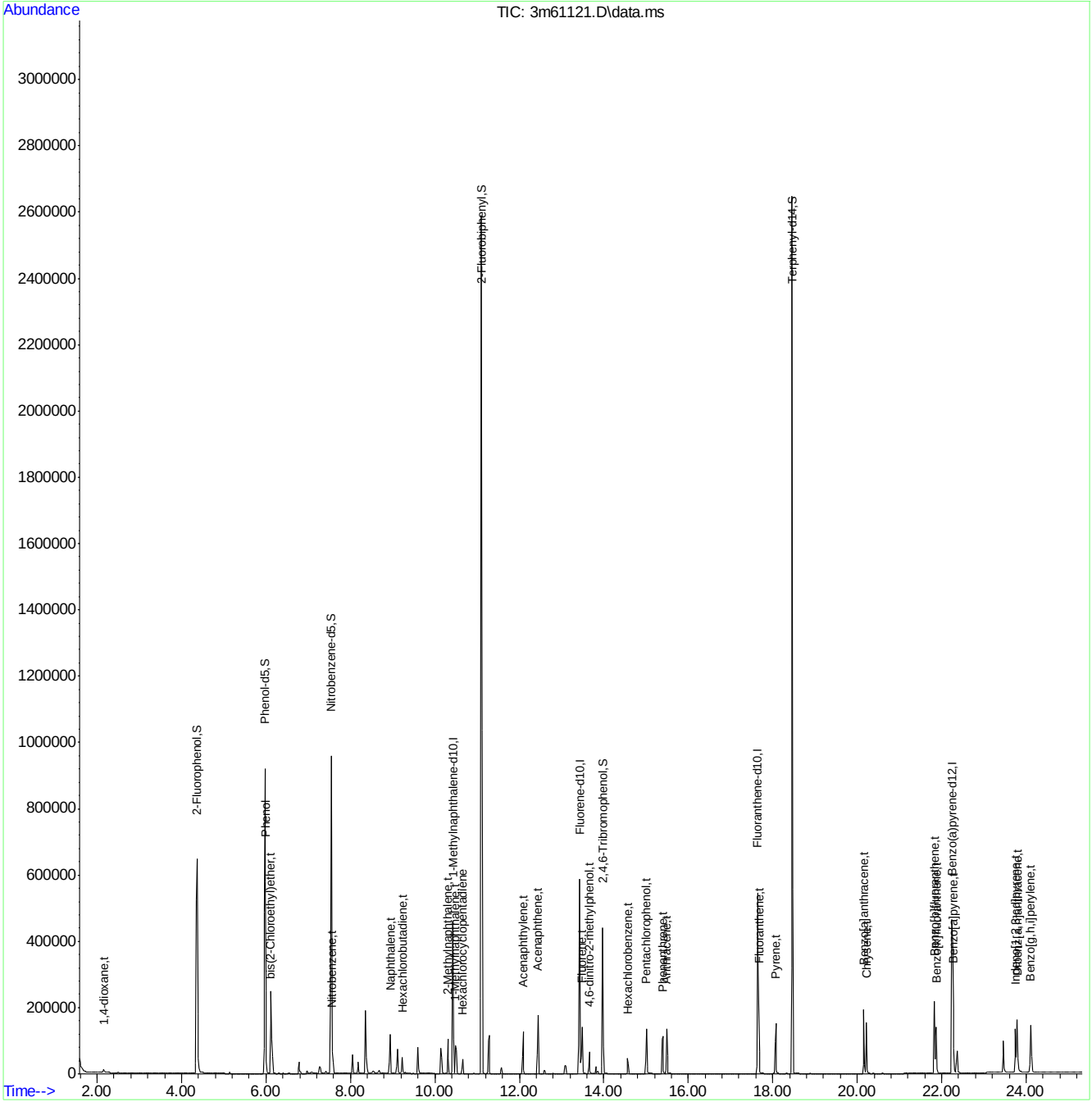
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2874\
Data File : 3m61121.D
Acq On : 6 May 2016 9:29 am
Operator : linseyk
Sample : cc2855-1
Misc : op93629a,e3m2874
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 06 14:14:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 14:14:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/12/16 12:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27319.D
Acq On : 11 Apr 2016 10:29 am
Operator : seanb1
Sample : ic1382-100
Misc : op92466,e5p1382
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 11 14:33:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:31:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.309	152	606258	40.00	ppm	0.00
24) Naphthalene-d8	6.778	136	2449343	40.00	ppm	0.00
47) Acenaphthene-d10	8.893	164	1462954	40.00	ppm	0.00
69) Phenanthrene-d10	10.731	188	2474500	40.00	ppm	0.00
83) Chrysene-d12	14.545	240	2418703	40.00	ppm	0.00
92) Perylene-d12	16.608	264	2544651	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.309	152	606258	40.00	ppm	0.00
104) Acenaphthene-d10a	8.893	164	1462954	40.00	ppm	0.00
106) Chrysene-d12a	14.545	240	2418703	40.00	ppm	0.00
109) Phenanthrene-d10a	10.731	188	2474500	40.00	ppm	0.00
112) Naphthalene-d8a	6.778	136	2449343	40.00	ppm	0.00
114) Chrysene-d12b	14.545	240	2418703	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.898	112	1824303	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
8) Phenol-d5	4.897	99	2107130	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
25) Nitrobenzene-d5	5.944	82	1814913	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
51) 2-Fluorobiphenyl	8.092	172	4105272	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
73) 2,4,6-Tribromophenol	9.860	330	611327	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
85) Terphenyl-d14	12.991	244	4422391	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.338	88	635333	100.00	ppm	100
3) Pyridine	2.638	79	1539954	100.00	ppm	100
4) N-Nitrosodimethylamine	2.606	74	886216	100.00	ppm	100
6) Indene	5.597	116	2998187	100.00	ppm	100
7) Cumene	4.438	105	3982991	100.00	ppm	100
9) Phenol	4.919	94	2121880	100.00	ppm	100
10) Aniline	4.940	93	1940002	100.00	ppm	100
11) bis(2-Chloroethyl)ether	5.026	93	1544815	100.00	ppm	100
12) 2-Chlorophenol	5.074	128	1988185	100.00	ppm	100
13) Decane	5.138	43	1255834	100.00	ppm	100
14) 1,3-Dichlorobenzene	5.239	146	2125447	100.00	ppm	100
15) 1,4-Dichlorobenzene	5.325	146	2122531	100.00	ppm	100
16) Benzyl alcohol	5.469	108	1174509	100.00	ppm	100
17) 1,2-Dichlorobenzene	5.496	146	1997422	100.00	ppm	100
18) Acetophenone	5.773	105	2300076	100.00	ppm	100
19) 2-Methylphenol	5.592	108	1500917	100.00	ppm	100
20) 2,2'-oxybis(1-Chloropr...	5.629	45	1799922	100.00	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27319.D
Acq On : 11 Apr 2016 10:29 am
Operator : seanb1
Sample : ic1382-100
Misc : op92466,e5p1382
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 11 14:33:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:31:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.773	108	1593552	100.00	ppm	100
22) n-Nitroso-di-n-propyla...	5.784	70	1108243	100.00	ppm	100
23) Hexachloroethane	5.880	201	709329	100.00	ppm	100
26) Nitrobenzene	5.966	77	1730445	100.00	ppm	100
27) Quinoline	7.221	129	4171544	100.00	ppm	100
28) Isophorone	6.254	82	2994252	100.00	ppm	100
29) 2-Nitrophenol	6.334	139	1099966	100.00	ppm	100
30) 2,4-Dimethylphenol	6.393	107	1876286	100.00	ppm	100
31) Benzoic acid	6.564	105	1616861m	117.07	ppm	
32) bis(2-Chloroethoxy)met...	6.516	93	1949123	100.00	ppm	100
33) 2,4-Dichlorophenol	6.618	162	1658788	100.00	ppm	100
34) 2,6-Dichlorophenol	6.885	162	1591296	100.00	ppm	100
35) 1,3,5-Trichlorobenzene	6.345	180	1676111	100.00	ppm	100
36) 1,2,4-Trichlorobenzene	6.714	180	1742081	100.00	ppm	100
37) 1,2,3-Trichlorobenzene	6.975	180	1710336	100.00	ppm	100
38) Naphthalene	6.805	128	5374200	100.00	ppm	100
39) 4-Chloroaniline	6.885	127	2206180	100.00	ppm	100
40) 2,3-Dichloroaniline	7.980	161	1971146	98.75	ppm	100
41) Caprolactam	7.339	55	750474	100.00	ppm	100
42) Hexachlorobutadiene	6.959	225	888140	100.00	ppm	100
43) 4-Chloro-3-methylphenol	7.478	107	1812526	100.00	ppm	100
44) 2-Methylnaphthalene	7.638	141	3162125	100.00	ppm	100
45) 1-Methylnaphthalene	7.755	141	3277551	100.00	ppm	100
46) Dimethylnaphthalene	8.396	156	3533950	100.00	ppm	100
48) Hexachlorocyclopentadiene	7.830	237	1889705	200.00	ppm	100
49) 2,4,6-Trichlorophenol	7.985	196	1154999	100.00	ppm	100
50) 2,4,5-Trichlorophenol	8.028	196	1294269	100.00	ppm	100
52) 2-Chloronaphthalene	8.226	162	3607606	100.00	ppm	100
53) Biphenyl	8.210	154	4528416	100.00	ppm	100
54) 2-Nitroaniline	8.359	65	1048321	100.00	ppm	100
55) Dimethylphthalate	8.600	163	4353242	100.00	ppm	100
56) Acenaphthylene	8.722	152	5803700	100.00	ppm	100
57) 2,6-Dinitrotoluene	8.664	165	1050337	100.00	ppm	100
58) 3-Nitroaniline	8.861	138	1232829	100.00	ppm	100
59) Acenaphthene	8.936	153	3588597	100.00	ppm	100
60) 2,4-Dinitrophenol	8.989	184	1289854	200.00	ppm	100
61) 4-Nitrophenol	9.075	109	619965	100.00	ppm	100
62) Dibenzofuran	9.150	168	4674812	100.00	ppm	100
63) 2,4-Dinitrotoluene	9.150	165	1304795	100.00	ppm	100
64) 2,3,4,6-Tetrachlorophenol	9.299	232	1053069	100.00	ppm	100
65) Diethylphthalate	9.470	149	4481759	100.00	ppm	100
66) Fluorene	9.566	166	4062707	100.00	ppm	100
67) 4-Chlorophenyl-phenyle...	9.582	204	1910727	100.00	ppm	100
68) 4-Nitroaniline	9.615	138	1200347	100.00	ppm	100
70) 4,6-Dinitro-2-methylph...	9.641	198	865123	100.00	ppm	100
71) n-Nitrosodiphenylamine	9.732	169	3111786	100.00	ppm	100
72) 1,2-Diphenylhydrazine	9.775	77	3322603	100.00	ppm	100
74) 4-Bromophenyl-phenylether	10.181	248	1202755	100.00	ppm	100
75) Hexachlorobenzene	10.234	284	1265017	100.00	ppm	100
76) Pentachlorophenol	10.491	266	1797257	200.00	ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27319.D
Acq On : 11 Apr 2016 10:29 am
Operator : seanb1
Sample : ic1382-100
Misc : op92466,e5p1382
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 11 14:33:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:31:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.768	178	5866552	100.00	ppm	100
78) Anthracene	10.833	178	5997702	100.00	ppm	100
79) Carbazole	11.057	167	5774455	100.00	ppm	100
80) Di-n-butylphthalate	11.580	149	7342771	100.00	ppm	100
81) Fluoranthene	12.398	202	6245952	100.00	ppm	100
82) Octadecane	10.656	57	2068986	100.00	ppm	100
84) Pyrene	12.718	202	6552454	100.00	ppm	100
86) Butylbenzylphthalate	13.771	149	3521982	100.00	ppm	100
87) Butyl stearate	13.926	56	1481664	100.00	ppm	100
88) Benzo[a]anthracene	14.529	228	5794840	100.00	ppm	100
89) 3,3'-Dichlorobenzidine	14.529	252	2253111	100.00	ppm	100
90) Chrysene	14.588	228	6141642	100.00	ppm	100
91) bis(2-Ethylhexyl)phtha...	14.695	149	5043925	100.00	ppm	100
93) Di-n-octylphthalate	15.678	149	8091919	100.00	ppm	100
94) Benzo[b]fluoranthene	16.100	252	6783434	100.00	ppm	100
95) Benzo[k]fluoranthene	16.148	252	6147278	100.00	ppm	100
96) Benzo[a]pyrene	16.538	252	5955853	100.00	ppm	100
97) Indeno[1,2,3-cd]pyrene	18.274	276	6404674	100.00	ppm	100
98) Dibenz(a,h)acridine	17.895	279	5485906	100.00	ppm	100
99) Dibenz[a,h]anthracene	18.328	278	6692029	100.00	ppm	100
100) 7,12-Dimethylbenz(a)an...	16.111	256	2904525	100.00	ppm	100
101) Benzo[g,h,i]perylene	18.755	276	6700983	100.00	ppm	100

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

7.6.46

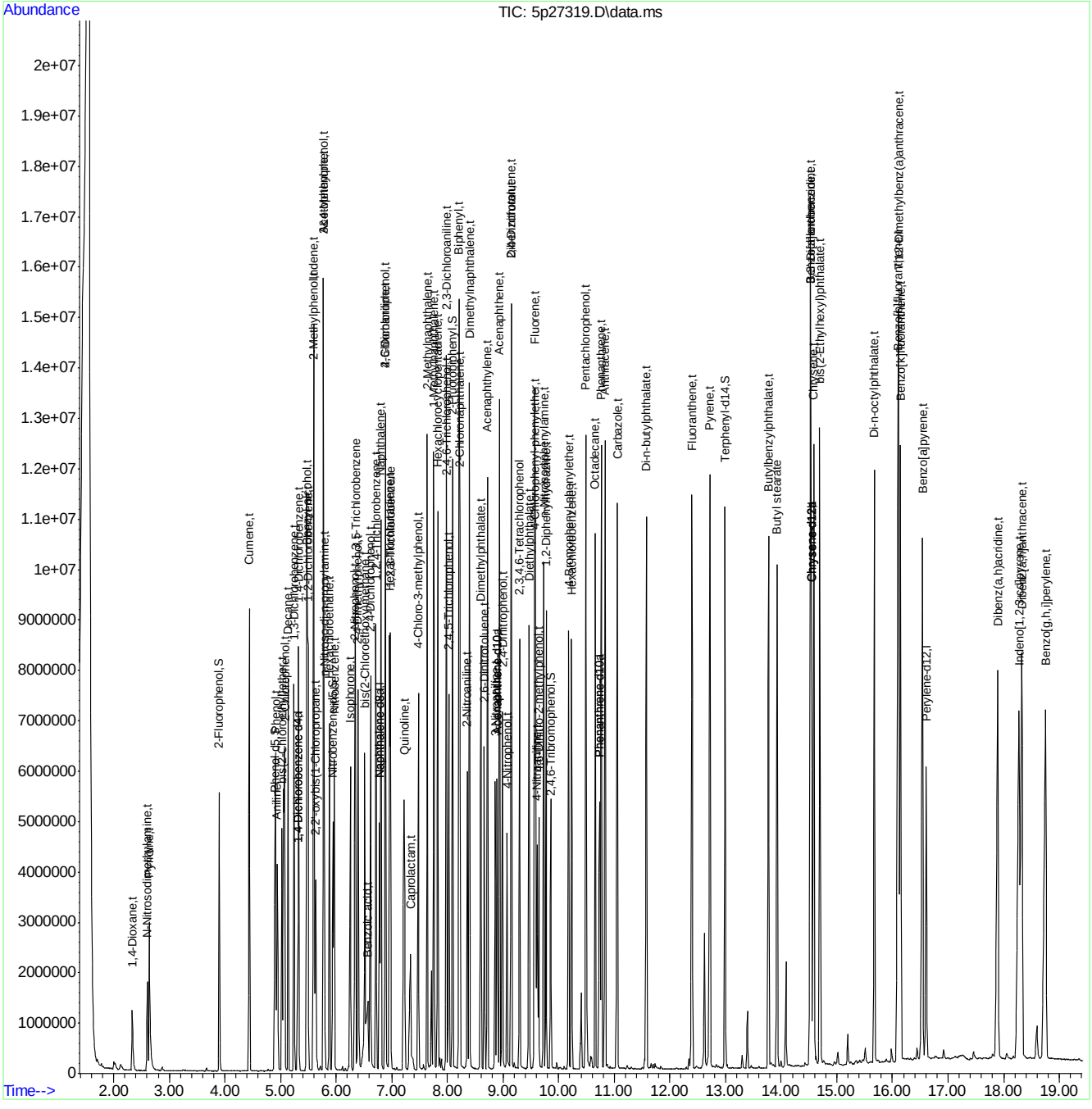
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27319.D
Acq On : 11 Apr 2016 10:29 am
Operator : seanb1
Sample : ic1382-100
Misc : op92466,e5p1382
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 11 14:33:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:31:47 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

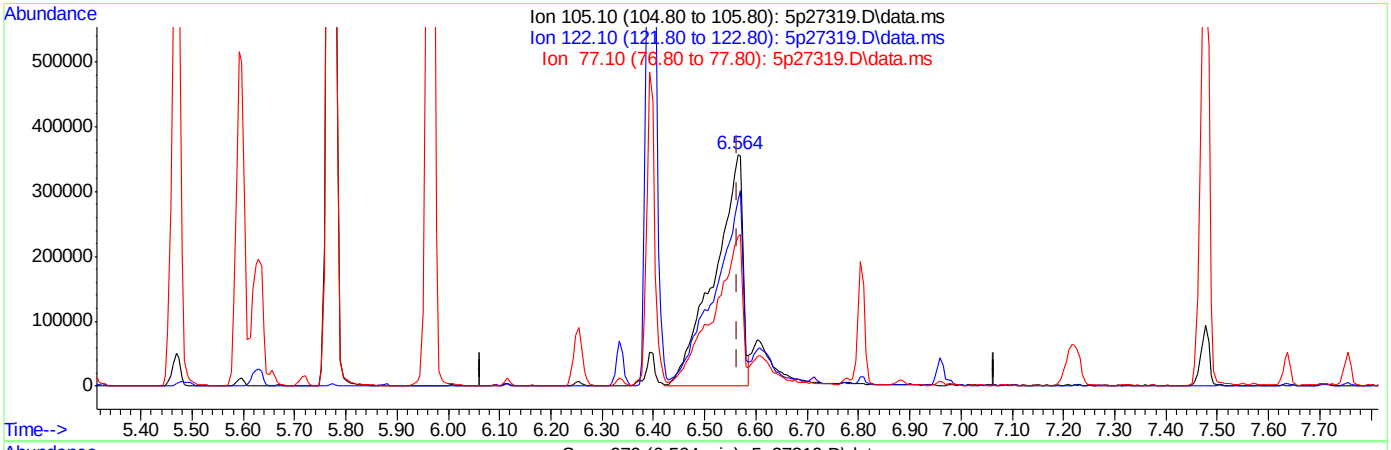
Sample Number:	E5P1382-IC1382	**Method:**	SW846 8270D
Lab FileID:	5P27319.D	**Analyst approved:**	04/12/16 09:05 Ashley Dye
Injection Time:	04/11/16 10:29	**Supervisor approved:**	04/12/16 12:29 Nina Pandya

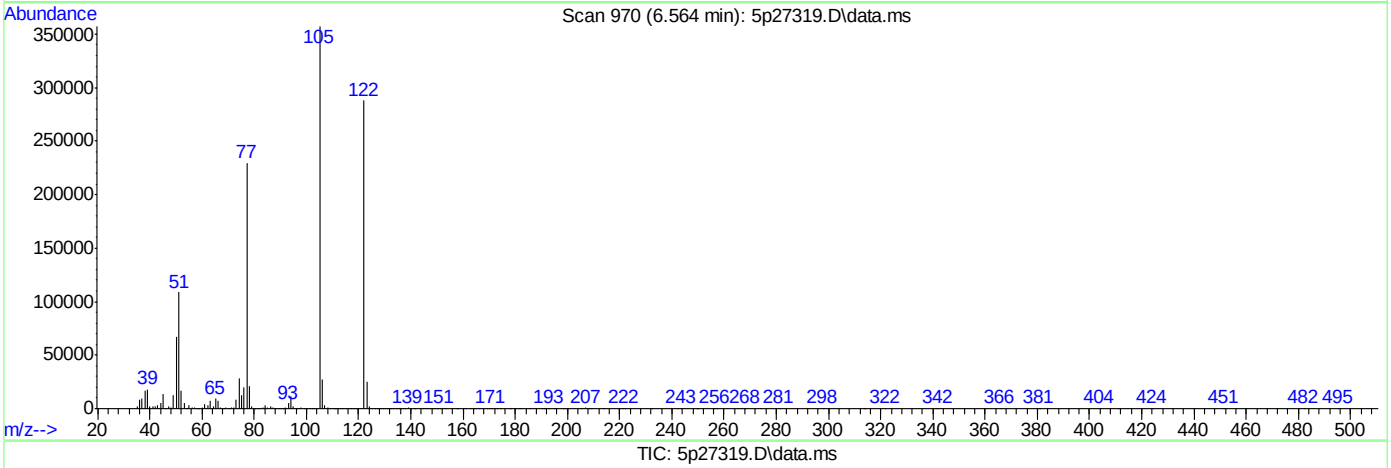
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.56	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27319.D
Acq On : 11 Apr 2016 10:29 am
Operator : seanb1
Sample : ic1382-100
Misc : op92466,e5p1382
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 11 14:31:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:31:47 2016
Response via : Initial Calibration





TIC: 5p27319.D\data.ms

(31) Benzoic acid (t)

6.564min (0.000) 100.00ppm

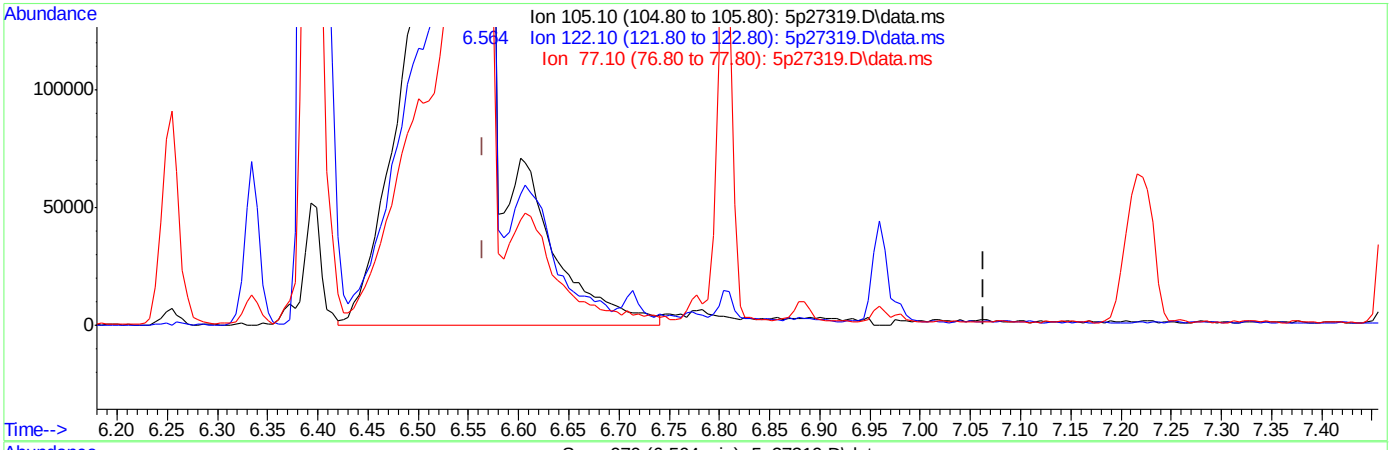
response 1381121

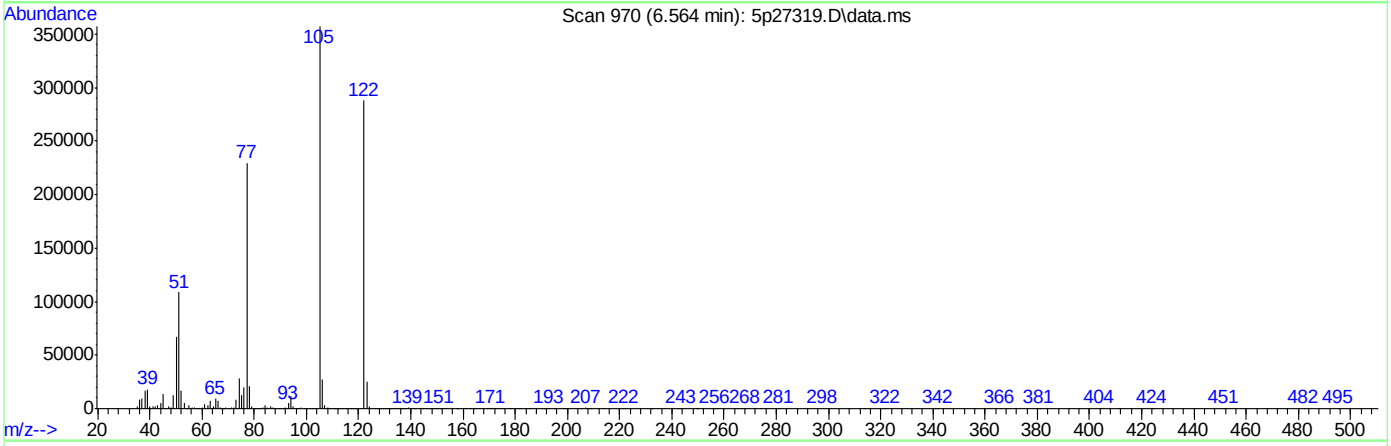
Ion	Exp%	Act%
105.10	100	100
122.10	75.40	75.35
77.10	62.90	62.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27319.D
Acq On : 11 Apr 2016 10:29 am
Operator : seanb1
Sample : ic1382-100
Misc : op92466,e5p1382
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 11 14:31:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:31:47 2016
Response via : Initial Calibration





TIC: 5p27319.D\data.ms

(31) Benzoic acid (t)

6.564min (0.000) 117.07ppm m

response 1616861

Ion	Exp%	Act%
105.10	100	100
122.10	75.40	80.60
77.10	62.90	64.37
0.00	0.00	0.00

SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/12/16 12:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27320.D
Acq On : 11 Apr 2016 11:06 am
Operator : seanb1
Sample : ic1382-80
Misc : op92466,e5p1382
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 11 14:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:33:38 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.309	152	659689	40.00	ppm	0.00
24) Naphthalene-d8	6.778	136	2584604	40.00	ppm	0.00
47) Acenaphthene-d10	8.893	164	1527466	40.00	ppm	0.00
69) Phenanthrene-d10	10.731	188	2553003	40.00	ppm	0.00
83) Chrysene-d12	14.545	240	2528604	40.00	ppm	0.00
92) Perylene-d12	16.613	264	2696284	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.309	152	659689	40.00	ppm	0.00
104) Acenaphthene-d10a	8.893	164	1527466	40.00	ppm	0.00
106) Chrysene-d12a	14.545	240	2528604	40.00	ppm	0.00
109) Phenanthrene-d10a	10.731	188	2553003	40.00	ppm	0.00
112) Naphthalene-d8a	6.778	136	2584604	40.00	ppm	0.00
114) Chrysene-d12b	14.545	240	2528604	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.898	112	1607339	80.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	161.94%	
8) Phenol-d5	4.897	99	1813185	79.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	158.16%	
25) Nitrobenzene-d5	5.939	82	1547791	80.82	ppm	0.00
Spiked Amount 50.000			Recovery	=	161.64%	
51) 2-Fluorobiphenyl	8.092	172	3582763	83.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	167.18%	
73) 2,4,6-Tribromophenol	9.860	330	553295	87.72	ppm	0.00
Spiked Amount 50.000			Recovery	=	175.44%	
85) Terphenyl-d14	12.991	244	3902624	84.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	168.82%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.333	88	588672	85.15	ppm	95
3) Pyridine	2.638	79	1405636	83.88	ppm	98
4) N-Nitrosodimethylamine	2.600	74	806991	83.68	ppm	95
6) Indene	5.597	116	2625781	80.49	ppm	99
7) Cumene	4.438	105	3571140	82.40	ppm	99
9) Phenol	4.913	94	1843284	79.83	ppm	98
10) Aniline	4.940	93	1734888	82.18	ppm	87
11) bis(2-Chloroethyl)ether	5.026	93	1335197	79.43	ppm	100
12) 2-Chlorophenol	5.068	128	1743555	80.59	ppm	98
13) Decane	5.138	43	1115834	81.66	ppm	99
14) 1,3-Dichlorobenzene	5.239	146	1880570	81.31	ppm	99
15) 1,4-Dichlorobenzene	5.325	146	1892926	81.96	ppm	100
16) Benzyl alcohol	5.469	108	1017230	79.59	ppm	99
17) 1,2-Dichlorobenzene	5.496	146	1782873	82.03	ppm	99
18) Acetophenone	5.773	105	2029433	81.09	ppm	100
19) 2-Methylphenol	5.592	108	1298168	79.49	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.629	45	1553543	79.32	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27320.D
Acq On : 11 Apr 2016 11:06 am
Operator : seanb1
Sample : ic1382-80
Misc : op92466,e5p1382
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 11 14:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:33:38 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.773	108	1402575	80.89	ppm	99
22) n-Nitroso-di-n-propyla...	5.784	70	946208	78.46	ppm	98
23) Hexachloroethane	5.880	201	631815	81.86	ppm	97
26) Nitrobenzene	5.966	77	1490785	81.64	ppm	97
27) Quinoline	7.216	129	3561582	80.91	ppm	99
28) Isophorone	6.249	82	2591274	82.01	ppm	99
29) 2-Nitrophenol	6.334	139	976444	84.12	ppm	93
30) 2,4-Dimethylphenol	6.393	107	1633485	82.50	ppm	99
31) Benzoic acid	6.559	105	1429712m	83.80	ppm	
32) bis(2-Chloroethoxy)met...	6.516	93	1694170	82.37	ppm	99
33) 2,4-Dichlorophenol	6.618	162	1445872	82.60	ppm	99
34) 2,6-Dichlorophenol	6.885	162	1375988	81.94	ppm	98
35) 1,3,5-Trichlorobenzene	6.345	180	1520968	85.99	ppm	97
36) 1,2,4-Trichlorobenzene	6.714	180	1558470	84.78	ppm	99
37) 1,2,3-Trichlorobenzene	6.975	180	1508805	83.60	ppm	99
38) Naphthalene	6.805	128	4748729	83.74	ppm	99
39) 4-Chloroaniline	6.879	127	1940299	83.35	ppm	98
40) 2,3-Dichloroaniline	7.974	161	1717831	82.59	ppm	98
41) Caprolactam	7.333	55	637827	80.54	ppm	97
42) Hexachlorobutadiene	6.959	225	812172	86.66	ppm	98
43) 4-Chloro-3-methylphenol	7.472	107	1544107	80.73	ppm	99
44) 2-Methylnaphthalene	7.638	141	2757467	82.64	ppm	100
45) 1-Methylnaphthalene	7.755	141	2878484	83.23	ppm	99
46) Dimethylnaphthalene	8.396	156	3071893	82.38	ppm	99
48) Hexachlorocyclopentadiene	7.830	237	1680903	170.39	ppm	98
49) 2,4,6-Trichlorophenol	7.985	196	1004139	83.27	ppm	99
50) 2,4,5-Trichlorophenol	8.028	196	1145015	84.73	ppm	99
52) 2-Chloronaphthalene	8.226	162	3126468	83.00	ppm	99
53) Biphenyl	8.210	154	4005744	84.72	ppm	99
54) 2-Nitroaniline	8.359	65	905061	82.69	ppm	99
55) Dimethylphthalate	8.600	163	3825079	84.16	ppm	99
56) Acenaphthylene	8.722	152	5103327	84.22	ppm	99
57) 2,6-Dinitrotoluene	8.664	165	913956	83.34	ppm	99
58) 3-Nitroaniline	8.861	138	1048894	81.49	ppm	95
59) Acenaphthene	8.936	153	3164890	84.47	ppm	98
60) 2,4-Dinitrophenol	8.989	184	1131041	167.97	ppm	82
61) 4-Nitrophenol	9.070	109	543893	84.02	ppm	98
62) Dibenzofuran	9.150	168	4236551	86.80	ppm	98
63) 2,4-Dinitrotoluene	9.144	165	1161089	85.23	ppm	99
64) 2,3,4,6-Tetrachlorophenol	9.299	232	922528	83.90	ppm	97
65) Diethylphthalate	9.465	149	3980616	85.07	ppm	100
66) Fluorene	9.566	166	3628122	85.53	ppm	99
67) 4-Chlorophenyl-phenyle...	9.582	204	1688301	84.63	ppm	99
68) 4-Nitroaniline	9.609	138	1046107	83.47	ppm	99
70) 4,6-Dinitro-2-methylph...	9.641	198	761424	85.31	ppm	97
71) n-Nitrosodiphenylamine	9.727	169	2755317	85.82	ppm	100
72) 1,2-Diphenylhydrazine	9.775	77	2876033	83.90	ppm	99
74) 4-Bromophenyl-phenylether	10.181	248	1094380	88.19	ppm	99
75) Hexachlorobenzene	10.234	284	1126703	86.33	ppm	91
76) Pentachlorophenol	10.491	266	1608023	173.44	ppm	97

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27320.D
Acq On : 11 Apr 2016 11:06 am
Operator : seanb1
Sample : ic1382-80
Misc : op92466,e5p1382
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 11 14:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:33:38 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77)	Phenanthrene	10.768	178	5157164	85.20 ppm	100
78)	Anthracene	10.833	178	5306643	85.76 ppm	98
79)	Carbazole	11.057	167	5061752	84.96 ppm	99
80)	Di-n-butylphthalate	11.580	149	6461522	85.29 ppm	99
81)	Fluoranthene	12.398	202	5497503	85.31 ppm	98
82)	Octadecane	10.656	57	1777828	83.29 ppm	99
84)	Pyrene	12.718	202	5816919	84.92 ppm	99
86)	Butylbenzylphthalate	13.771	149	3058211	83.06 ppm	99
87)	Butyl stearate	13.926	56	1264382	81.63 ppm	97
88)	Benzo[a]anthracene	14.529	228	5159454	85.17 ppm	99
89)	3,3'-Dichlorobenzidine	14.529	252	2025945	86.01 ppm	99
90)	Chrysene	14.588	228	5386510	83.89 ppm	99
91)	bis(2-Ethylhexyl)phtha...	14.695	149	4384409	83.15 ppm	99
93)	Di-n-octylphthalate	15.673	149	7180310	83.74 ppm	99
94)	Benzo[b]fluoranthene	16.100	252	5762442	80.17 ppm	99
95)	Benzo[k]fluoranthene	16.148	252	5629823	86.43 ppm	98
96)	Benzo[a]pyrene	16.538	252	5366740	85.04 ppm	98
97)	Indeno[1,2,3-cd]pyrene	18.269	276	5613889	82.72 ppm	99
98)	Dibenz(a,h)acridine	17.895	279	4870868	83.80 ppm	100
99)	Dibenz[a,h]anthracene	18.322	278	5883894	82.98 ppm	99
100)	7,12-Dimethylbenz(a)an...	16.105	256	2562107	83.25 ppm	100
101)	Benzo[g,h,i]perylene	18.750	276	5870641	82.68 ppm	99

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

7.6.47

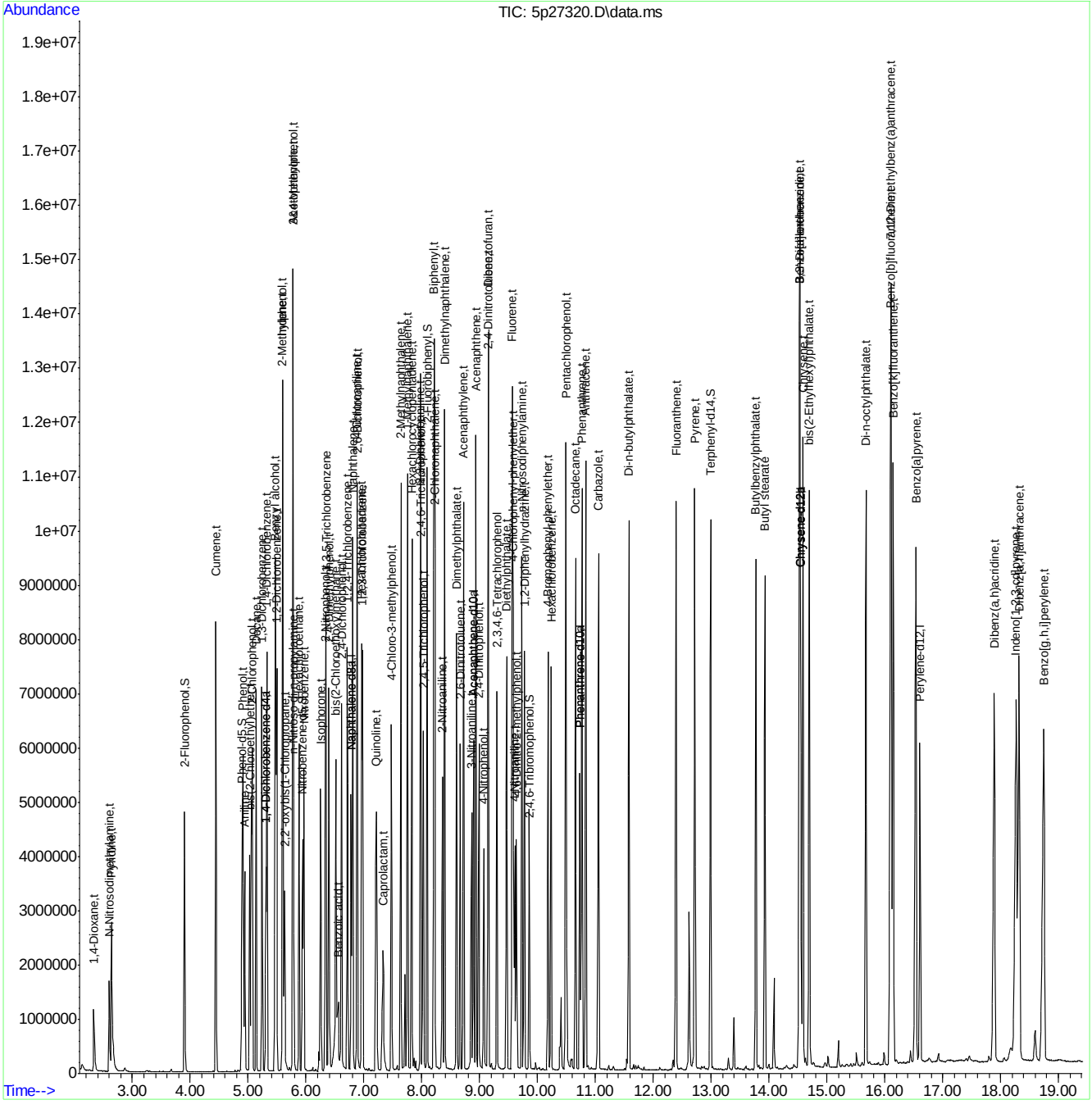
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27320.D
Acq On : 11 Apr 2016 11:06 am
Operator : seanb1
Sample : ic1382-80
Misc : op92466,e5p1382
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 11 14:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:33:38 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

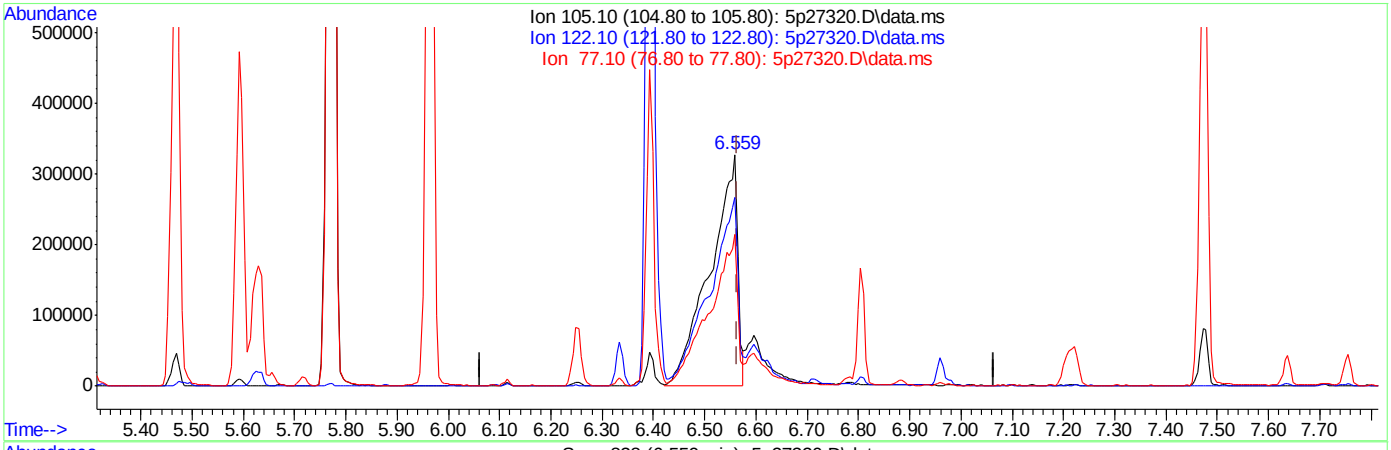
Sample Number:	E5P1382-IC1382	**Method:**	SW846 8270D
Lab FileID:	5P27320.D	**Analyst approved:**	04/12/16 09:05 Ashley Dye
Injection Time:	04/11/16 11:06	**Supervisor approved:**	04/12/16 12:29 Nina Pandya

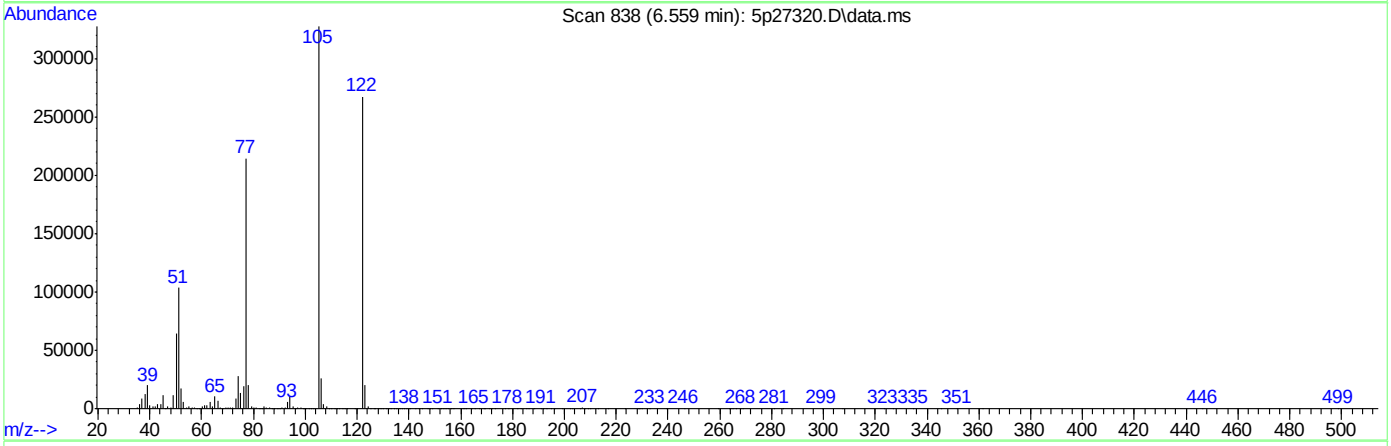
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.56	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27320.D
Acq On : 11 Apr 2016 11:06 am
Operator : seanb1
Sample : ic1382-80
Misc : op92466,e5p1382
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 11 14:34:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:33:38 2016
Response via : Initial Calibration





TIC: 5p27320.D\data.ms

(31) Benzoic acid (t)

6.559min (-0.005) 71.20ppm

response 1214750

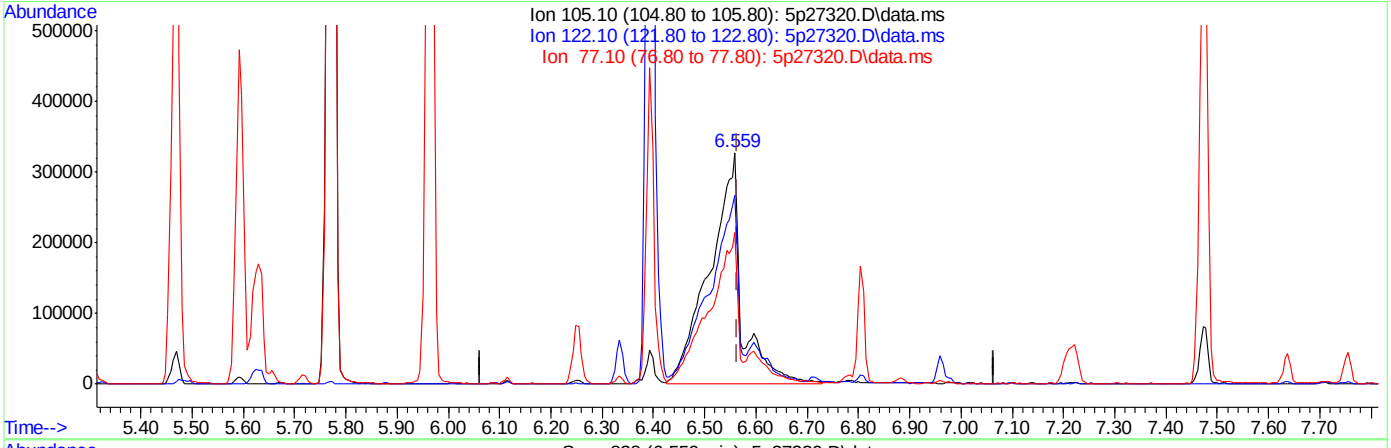
Ion	Exp%	Act%
105.10	100	100
122.10	80.60	77.85
77.10	64.40	64.60
0.00	0.00	0.00

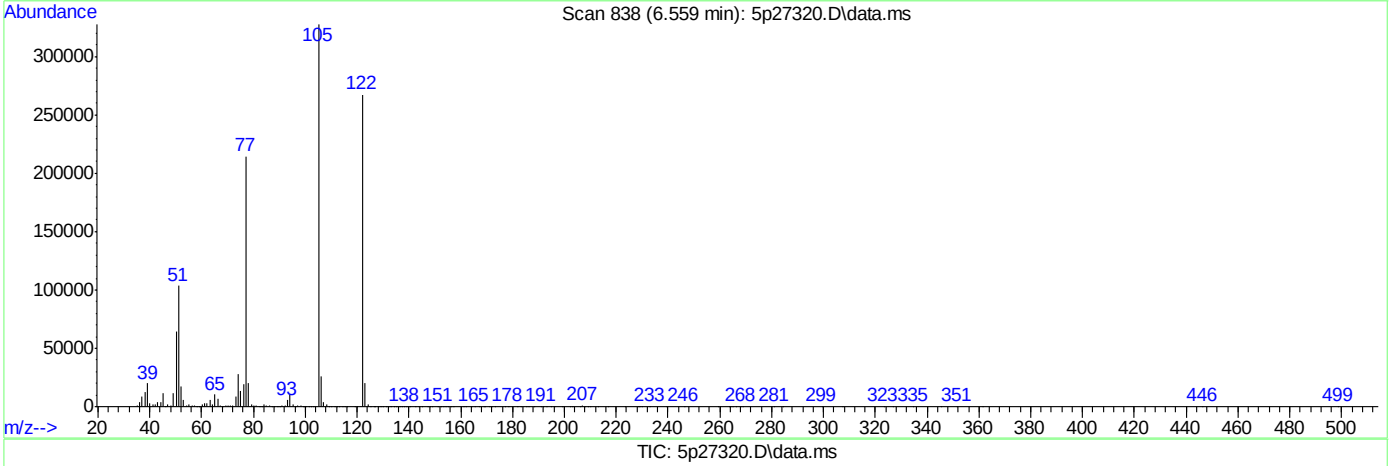
5P27320.D edits: Benzoic acid

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27320.D
Acq On : 11 Apr 2016 11:06 am
Operator : seanb1
Sample : ic1382-80
Misc : op92466,e5p1382
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 11 14:34:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:33:38 2016
Response via : Initial Calibration





TIC: 5p27320.D\data.ms

(31) Benzoic acid (t)

6.559min (-0.005) 83.80ppm m

response 1429712

Ion	Exp%	Act%
105.10	100	100
122.10	80.60	81.64
77.10	64.40	65.52
0.00	0.00	0.00

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27321.D
Acq On : 11 Apr 2016 11:32 am
Operator : seanb1
Sample : icc1382-50
Misc : op92466,e5p1382
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 15:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:09:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.304	152	629797	40.00	ppm	0.00
24) Naphthalene-d8	6.778	136	2428577	40.00	ppm	0.00
47) Acenaphthene-d10	8.894	164	1425990	40.00	ppm	0.00
69) Phenanthrene-d10	10.731	188	2329617	40.00	ppm	0.00
83) Chrysene-d12	14.540	240	2343158	40.00	ppm	0.00
92) Perylene-d12	16.608	264	2449657	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.304	152	629797	40.00	ppm	0.00
104) Acenaphthene-d10a	8.894	164	1425990	40.00	ppm	0.00
106) Chrysene-d12a	14.540	240	2343158	40.00	ppm	0.00
109) Phenanthrene-d10a	10.731	188	2329617	40.00	ppm	0.00
112) Naphthalene-d8a	6.778	136	2428577	40.00	ppm	0.00
114) Chrysene-d12b	14.540	240	2343158	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.893	112	971357	50.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.26%	
8) Phenol-d5	4.892	99	1094511	49.91	ppm	0.00
Spiked Amount 50.000			Recovery	=	99.82%	
25) Nitrobenzene-d5	5.934	82	913648	49.40	ppm	0.00
Spiked Amount 50.000			Recovery	=	98.80%	
51) 2-Fluorobiphenyl	8.087	172	2173385	48.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	96.16%	
73) 2,4,6-Tribromophenol	9.850	330	312212	55.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	110.70%	
85) Terphenyl-d14	12.986	244	2334590	49.77	ppm	0.00
Spiked Amount 50.000			Recovery	=	99.54%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.339	88	354239	47.99	ppm	98
3) Pyridine	2.638	79	836213	50.93	ppm	98
4) N-Nitrosodimethylamine	2.600	74	471854	51.65	ppm	98
6) Indene	5.592	116	1636952	47.51	ppm	98
7) Cumene	4.438	105	2202431	47.48	ppm	98
9) Phenol	4.908	94	1107110	48.87	ppm	98
10) Aniline	4.940	93	1071567	43.94	ppm	76
11) bis(2-Chloroethyl)ether	5.020	93	825559	49.33	ppm	97
12) 2-Chlorophenol	5.069	128	1054931	48.28	ppm	99
13) Decane	5.133	43	689911	48.07	ppm	97
14) 1,3-Dichlorobenzene	5.239	146	1174279	48.68	ppm	100
15) 1,4-Dichlorobenzene	5.325	146	1160619	47.69	ppm	98
16) Benzyl alcohol	5.464	108	626678	50.14	ppm	96
17) 1,2-Dichlorobenzene	5.491	146	1095007	47.19	ppm	98
18) Acetophenone	5.768	105	1253441	46.48	ppm	99
19) 2-Methylphenol	5.587	108	817071	48.73	ppm	100
20) 2,2'-oxybis(1-Chloropr...	5.629	45	937386	48.65	ppm	99

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27321.D
Acq On : 11 Apr 2016 11:32 am
Operator : seanb1
Sample : icc1382-50
Misc : op92466,e5p1382
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 15:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:09:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.768	108	871611	49.43	ppm	97
22) n-Nitroso-di-n-propyla...	5.774	70	561396	46.42	ppm	99
23) Hexachloroethane	5.881	201	390538	49.54	ppm	91
26) Nitrobenzene	5.961	77	887508	49.19	ppm	98
27) Quinoline	7.205	129	2097639	49.04	ppm	99
28) Isophorone	6.244	82	1565610	49.36	ppm	98
29) 2-Nitrophenol	6.329	139	585085	51.10	ppm	94
30) 2,4-Dimethylphenol	6.388	107	940333	52.54	ppm	97
31) Benzoic acid	6.522	105	797257	60.46	ppm	96
32) bis(2-Chloroethoxy)met...	6.511	93	1011480	48.63	ppm	99
33) 2,4-Dichlorophenol	6.612	162	869790	49.97	ppm	97
34) 2,6-Dichlorophenol	6.880	162	828855	48.36	ppm	99
35) 1,3,5-Trichlorobenzene	6.340	180	942064	47.33	ppm	99
36) 1,2,4-Trichlorobenzene	6.714	180	937913	48.23	ppm	97
37) 1,2,3-Trichlorobenzene	6.976	180	911770	47.54	ppm	98
38) Naphthalene	6.805	128	2930165	47.70	ppm	99
39) 4-Chloroaniline	6.874	127	1225450	47.60	ppm	97
40) 2,3-Dichloroaniline	7.975	161	1044326	48.58	ppm	98
41) Caprolactam	7.312	55	364323	51.88	ppm	97
42) Hexachlorobutadiene	6.960	225	485794	48.06	ppm	96
43) 4-Chloro-3-methylphenol	7.467	107	918686	49.10	ppm	97
44) 2-Methylnaphthalene	7.633	141	1711474	48.37	ppm	98
45) 1-Methylnaphthalene	7.750	141	1761308	48.03	ppm	100
46) Dimethylnaphthalene	8.391	156	1863914	48.35	ppm	100
48) Hexachlorocyclopentadiene	7.825	237	994707	115.38	ppm	98
49) 2,4,6-Trichlorophenol	7.980	196	611012	50.10	ppm	98
50) 2,4,5-Trichlorophenol	8.017	196	670161	50.81	ppm	98
52) 2-Chloronaphthalene	8.220	162	1930664	48.24	ppm	98
53) Biphenyl	8.204	154	2493796	48.30	ppm	99
54) 2-Nitroaniline	8.354	65	520843	51.32	ppm	96
55) Dimethylphthalate	8.594	163	2324125	48.97	ppm	100
56) Acenaphthylene	8.717	152	3129927	49.22	ppm	100
57) 2,6-Dinitrotoluene	8.658	165	530177	53.35	ppm	98
58) 3-Nitroaniline	8.851	138	610713	52.71	ppm	98
59) Acenaphthene	8.931	153	1947052	47.74	ppm	97
60) 2,4-Dinitrophenol	8.979	184	610721	119.95	ppm	89
61) 4-Nitrophenol	9.065	109	304554	50.68	ppm	99
62) Dibenzofuran	9.145	168	2604619	47.16	ppm	97
63) 2,4-Dinitrotoluene	9.139	165	710142	53.58	ppm	95
64) 2,3,4,6-Tetrachlorophenol	9.294	232	540295	51.75	ppm	96
65) Diethylphthalate	9.465	149	2365914	48.77	ppm	100
66) Fluorene	9.561	166	2207615	48.26	ppm	99
67) 4-Chlorophenyl-phenyle...	9.577	204	1016566	47.30	ppm	99
68) 4-Nitroaniline	9.599	138	595184	51.37	ppm	95
70) 4,6-Dinitro-2-methylph...	9.631	198	417341	64.10	ppm	99
71) n-Nitrosodiphenylamine	9.722	169	1656861	49.70	ppm	100
72) 1,2-Diphenylhydrazine	9.770	77	1733570	50.13	ppm	97
74) 4-Bromophenyl-phenylether	10.176	248	638424	49.72	ppm	95
75) Hexachlorobenzene	10.229	284	663480	51.04	ppm	95
76) Pentachlorophenol	10.486	266	929118	115.75	ppm	99

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27321.D
Acq On : 11 Apr 2016 11:32 am
Operator : seanb1
Sample : icc1382-50
Misc : op92466,e5p1382
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 15:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:09:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.763	178	3135630	48.21	ppm	99
78) Anthracene	10.827	178	3172152	48.46	ppm	100
79) Carbazole	11.046	167	3052951	49.58	ppm	99
80) Di-n-butylphthalate	11.575	149	3984502	50.85	ppm	99
81) Fluoranthene	12.393	202	3326709	49.47	ppm	99
82) Octadecane	10.656	57	1080340	50.23	ppm	99
84) Pyrene	12.713	202	3474499	48.24	ppm	100
86) Butylbenzylphthalate	13.766	149	1853572	52.29	ppm	98
87) Butyl stearate	13.921	56	750174	51.65	ppm	96
88) Benzo[a]anthracene	14.524	228	3130716	48.33	ppm	99
89) 3,3'-Dichlorobenzidine	14.524	252	1245308	52.26	ppm	98
90) Chrysene	14.583	228	3243198	49.19	ppm	100
91) bis(2-Ethylhexyl)phtha...	14.695	149	2645165	52.48	ppm	96
93) Di-n-octylphthalate	15.668	149	4438680	52.09	ppm	99
94) Benzo[b]fluoranthene	16.090	252	3426623	47.92	ppm	98
95) Benzo[k]fluoranthene	16.138	252	3435531	50.56	ppm	98
96) Benzo[a]pyrene	16.528	252	3184259	49.75	ppm	100
97) Indeno[1,2,3-cd]pyrene	18.259	276	3253608	51.70	ppm	98
98) Dibenz(a,h)acridine	17.885	279	2829531	50.68	ppm	99
99) Dibenz[a,h]anthracene	18.307	278	3424322	51.98	ppm	99
100) 7,12-Dimethylbenz(a)an...	16.100	256	1503862	55.08	ppm	97
101) Benzo[g,h,i]perylene	18.734	276	3382967	50.66	ppm	98

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

7.6.48

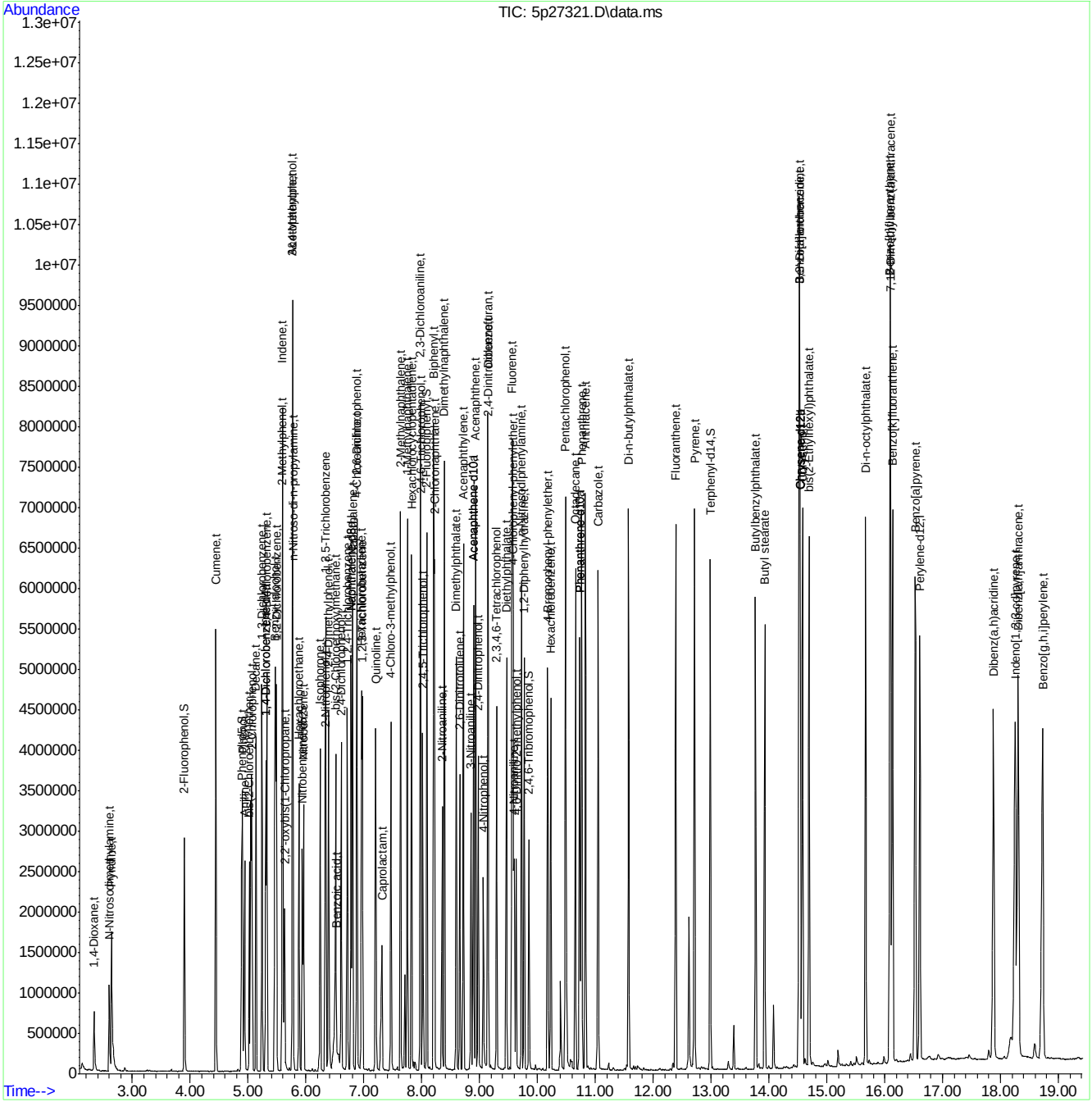
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27321.D
Acq On : 11 Apr 2016 11:32 am
Operator : seanb1
Sample : icc1382-50
Misc : op92466,e5p1382
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 15:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:09:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27322.D
Acq On : 11 Apr 2016 11:59 am
Operator : seanb1
Sample : ic1382-25
Misc : op92466,e5p1382
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 15:08:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:07:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.304	152	632754	40.00	ppm	0.00
24) Naphthalene-d8	6.778	136	2398751	40.00	ppm	0.00
47) Acenaphthene-d10	8.893	164	1393456	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	2312610	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2279672	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2347944	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.304	152	632754	40.00	ppm	0.00
104) Acenaphthene-d10a	8.893	164	1393456	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2279672	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	2312610	40.00	ppm	0.00
112) Naphthalene-d8a	6.778	136	2398751	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2279672	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.893	112	484274	24.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	49.70%	
8) Phenol-d5	4.887	99	559606	25.48	ppm	0.00
Spiked Amount 50.000			Recovery	=	50.96%	
25) Nitrobenzene-d5	5.934	82	460876	25.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	50.54%	
51) 2-Fluorobiphenyl	8.087	172	1123870	25.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.06%	
73) 2,4,6-Tribromophenol	9.850	330	147844	26.70	ppm	0.00
Spiked Amount 50.000			Recovery	=	53.40%	
85) Terphenyl-d14	12.986	244	1175972	25.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.86%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.339	88	181123	24.31	ppm	97
3) Pyridine	2.643	79	418401	25.44	ppm	97
4) N-Nitrosodimethylamine	2.600	74	238843	26.24	ppm	92
6) Indene	5.592	116	861396	24.86	ppm	99
7) Cumene	4.438	105	1179576	25.37	ppm	98
9) Phenol	4.903	94	571160	25.12	ppm	98
10) Aniline	4.935	93	578227	23.34	ppm	85
11) bis(2-Chloroethyl)ether	5.015	93	416922	24.76	ppm	96
12) 2-Chlorophenol	5.063	128	551797	25.16	ppm	99
13) Decane	5.133	43	360657	25.02	ppm	97
14) 1,3-Dichlorobenzene	5.239	146	607317	25.07	ppm	100
15) 1,4-Dichlorobenzene	5.325	146	610027	24.94	ppm	98
16) Benzyl alcohol	5.458	108	318647	25.46	ppm	97
17) 1,2-Dichlorobenzene	5.490	146	570860	24.38	ppm	99
18) Acetophenone	5.763	105	660281	24.25	ppm	92
19) 2-Methylphenol	5.587	108	428872	25.55	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.624	45	469241	24.09	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27322.D
Acq On : 11 Apr 2016 11:59 am
Operator : seanb1
Sample : ic1382-25
Misc : op92466,e5p1382
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 15:08:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:07:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.763	108	457164	25.97	ppm	97
22) n-Nitroso-di-n-propyla...	5.768	70	287556	23.42	ppm	99
23) Hexachloroethane	5.875	201	202122	25.62	ppm	99
26) Nitrobenzene	5.955	77	449995	25.30	ppm	97
27) Quinoline	7.200	129	1057456	25.04	ppm	99
28) Isophorone	6.238	82	802166	25.73	ppm	95
29) 2-Nitrophenol	6.329	139	299125	26.76	ppm	93
30) 2,4-Dimethylphenol	6.388	107	446822	25.33	ppm	93
31) Benzoic acid	6.495	105	371573	29.36	ppm	94
32) bis(2-Chloroethoxy)met...	6.511	93	513326	24.98	ppm	99
33) 2,4-Dichlorophenol	6.607	162	441414	25.82	ppm	97
34) 2,6-Dichlorophenol	6.879	162	426257	25.22	ppm	97
35) 1,3,5-Trichlorobenzene	6.340	180	496818	25.33	ppm	99
36) 1,2,4-Trichlorobenzene	6.709	180	488963	25.55	ppm	99
37) 1,2,3-Trichlorobenzene	6.970	180	465174	24.47	ppm	97
38) Naphthalene	6.799	128	1522820	25.12	ppm	99
39) 4-Chloroaniline	6.874	127	643015	25.34	ppm	98
40) 2,3-Dichloroaniline	7.975	161	537534	25.38	ppm	97
41) Caprolactam	7.285	55	181551	26.42	ppm	97
42) Hexachlorobutadiene	6.960	225	246016	24.57	ppm	98
43) 4-Chloro-3-methylphenol	7.462	107	467983	25.39	ppm	97
44) 2-Methylnaphthalene	7.633	141	890360	25.58	ppm	97
45) 1-Methylnaphthalene	7.750	141	922277	25.56	ppm	95
46) Dimethylnaphthalene	8.391	156	965823	25.44	ppm	99
48) Hexachlorocyclopentadiene	7.825	237	485266	59.41	ppm	98
49) 2,4,6-Trichlorophenol	7.975	196	309836	26.21	ppm	100
50) 2,4,5-Trichlorophenol	8.017	196	329034	25.64	ppm	94
52) 2-Chloronaphthalene	8.220	162	988162	25.32	ppm	97
53) Biphenyl	8.204	154	1278490	25.41	ppm	98
54) 2-Nitroaniline	8.349	65	259697	26.44	ppm	92
55) Dimethylphthalate	8.589	163	1175787	25.42	ppm	99
56) Acenaphthylene	8.717	152	1604878	26.00	ppm	97
57) 2,6-Dinitrotoluene	8.653	165	253911	26.39	ppm	97
58) 3-Nitroaniline	8.845	138	301428	26.97	ppm	95
59) Acenaphthene	8.931	153	1014809	25.56	ppm	97
60) 2,4-Dinitrophenol	8.974	184	261913	53.35	ppm	95
61) 4-Nitrophenol	9.059	109	150619	25.82	ppm	95
62) Dibenzofuran	9.145	168	1368944	25.44	ppm	97
63) 2,4-Dinitrotoluene	9.134	165	359087	28.35	ppm	92
64) 2,3,4,6-Tetrachlorophenol	9.289	232	268011	26.54	ppm	97
65) Diethylphthalate	9.460	149	1195284	25.26	ppm	99
66) Fluorene	9.556	166	1154893	26.01	ppm	99
67) 4-Chlorophenyl-phenyle...	9.577	204	520755	24.76	ppm	95
68) 4-Nitroaniline	9.588	138	307407	27.63	ppm	98
70) 4,6-Dinitro-2-methylph...	9.625	198	188461	30.16	ppm	93
71) n-Nitrosodiphenylamine	9.722	169	843832	25.60	ppm	99
72) 1,2-Diphenylhydrazine	9.764	77	879124	25.74	ppm	98
74) 4-Bromophenyl-phenylether	10.176	248	319038	25.03	ppm	99
75) Hexachlorobenzene	10.224	284	331939	25.87	ppm	99
76) Pentachlorophenol	10.480	266	444170	57.05	ppm	97

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27322.D
Acq On : 11 Apr 2016 11:59 am
Operator : seanb1
Sample : ic1382-25
Misc : op92466,e5p1382
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 15:08:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:07:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.758	178	1620043	25.11 ppm	100
78) Anthracene	10.822	178	1654329	25.55 ppm	99
79) Carbazole	11.046	167	1551556	25.46 ppm	100
80) Di-n-butylphthalate	11.575	149	2060528	26.81 ppm	99
81) Fluoranthene	12.387	202	1714670	25.83 ppm	99
82) Octadecane	10.651	57	553079	26.10 ppm	98
84) Pyrene	12.708	202	1793126	25.71 ppm	99
86) Butylbenzylphthalate	13.766	149	924446	27.20 ppm	100
87) Butyl stearate	13.921	56	376262	26.98 ppm	96
88) Benzo[a]anthracene	14.519	228	1597727	25.42 ppm	99
89) 3,3'-Dichlorobenzidine	14.519	252	632151	27.77 ppm	98
90) Chrysene	14.572	228	1643038	25.74 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.690	149	1328575	27.55 ppm	100
93) Di-n-octylphthalate	15.667	149	2235992	27.91 ppm	99
94) Benzo[b]fluoranthene	16.084	252	1739074	25.45 ppm	98
95) Benzo[k]fluoranthene	16.127	252	1706375	26.45 ppm	100
96) Benzo[a]pyrene	16.522	252	1581144	25.94 ppm	99
97) Indeno[1,2,3-cd]pyrene	18.248	276	1549490	25.83 ppm	99
98) Dibenz(a,h)acridine	17.874	279	1385328	26.07 ppm	98
99) Dibenz[a,h]anthracene	18.296	278	1654891	26.47 ppm	97
100) 7,12-Dimethylbenz(a)an...	16.090	256	737317	28.91 ppm	100
101) Benzo[g,h,i]perylene	18.718	276	1645971	25.86 ppm	99

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

7.6.49

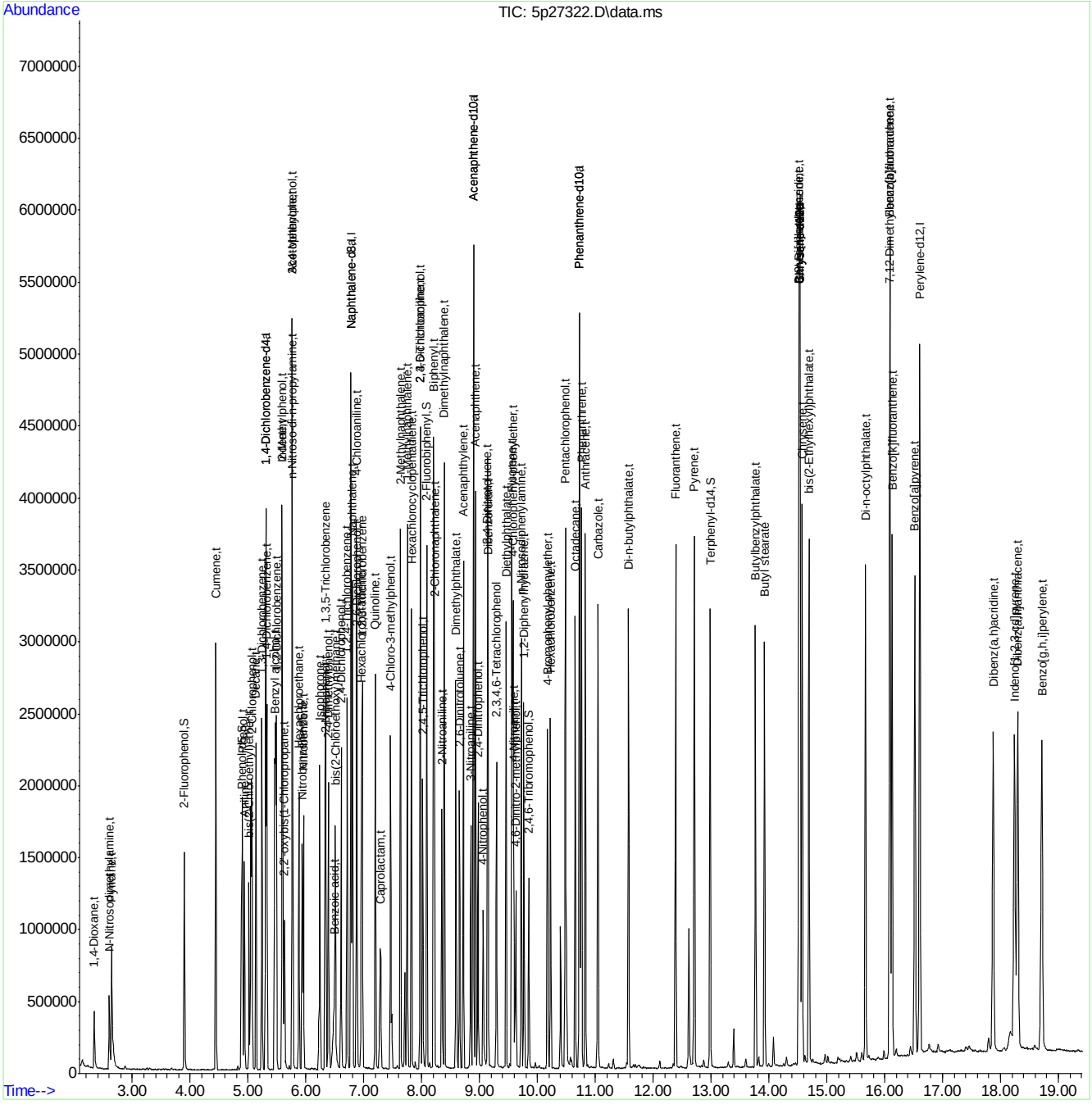
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27322.D
Acq On : 11 Apr 2016 11:59 am
Operator : seanb1
Sample : ic1382-25
Misc : op92466,e5p1382
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 15:08:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:07:19 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27323.D
Acq On : 11 Apr 2016 12:25 pm
Operator : seanb1
Sample : ic1382-10
Misc : op92466,e5p1382
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 15:07:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:05:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	627501	40.00	ppm	0.00
24) Naphthalene-d8	6.778	136	2394447	40.00	ppm	0.00
47) Acenaphthene-d10	8.893	164	1378612	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	2284990	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2262729	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2282801	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	627501	40.00	ppm	0.00
104) Acenaphthene-d10a	8.893	164	1378612	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2262683	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	2284990	40.00	ppm	0.00
112) Naphthalene-d8a	6.778	136	2394447	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2262683	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.893	112	196927	10.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.48%	
8) Phenol-d5	4.881	99	229138	10.66	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.32%	
25) Nitrobenzene-d5	5.929	82	187501	10.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.76%	
51) 2-Fluorobiphenyl	8.087	172	458869	10.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.36%	
73) 2,4,6-Tribromophenol	9.850	330	53982	9.84	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.68%	
85) Terphenyl-d14	12.986	244	474835	10.69	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.38%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.339	88	71825	9.65	ppm	84
3) Pyridine	2.648	79	169081	10.46	ppm	99
4) N-Nitrosodimethylamine	2.606	74	95172	10.69	ppm	94
6) Indene	5.592	116	357716	10.52	ppm	99
7) Cumene	4.438	105	484487	10.64	ppm	98
9) Phenol	4.897	94	235754	10.57	ppm	96
10) Aniline	4.935	93	255950	10.53	ppm	89
11) bis(2-Chloroethyl)ether	5.015	93	172432	10.41	ppm	93
12) 2-Chlorophenol	5.063	128	220392	10.17	ppm	97
13) Decane	5.133	43	147652	10.41	ppm	100
14) 1,3-Dichlorobenzene	5.239	146	246638	10.33	ppm	97
15) 1,4-Dichlorobenzene	5.325	146	248670	10.32	ppm	98
16) Benzyl alcohol	5.458	108	125954	10.18	ppm	98
17) 1,2-Dichlorobenzene	5.490	146	238918	10.37	ppm	100
18) Acetophenone	5.763	105	281619	10.54	ppm	100
19) 2-Methylphenol	5.581	108	177259	10.83	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.624	45	190523	9.83	ppm	91

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27323.D
Acq On : 11 Apr 2016 12:25 pm
Operator : seanb1
Sample : ic1382-10
Misc : op92466,e5p1382
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 15:07:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:05:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.758	108	184720	10.74	ppm	98
22) n-Nitroso-di-n-propyla...	5.768	70	126231	10.46	ppm	98
23) Hexachloroethane	5.875	201	80805	10.42	ppm	97
26) Nitrobenzene	5.955	77	187934	10.74	ppm	97
27) Quinoline	7.195	129	433616	10.36	ppm	98
28) Isophorone	6.238	82	327678	10.67	ppm	95
29) 2-Nitrophenol	6.324	139	116738	10.58	ppm	93
30) 2,4-Dimethylphenol	6.383	107	170813	9.63	ppm	94
31) Benzoic acid	6.463	105	125528	9.92	ppm	89
32) bis(2-Chloroethoxy)met...	6.505	93	214531	10.58	ppm	97
33) 2,4-Dichlorophenol	6.607	162	178103	10.55	ppm	96
34) 2,6-Dichlorophenol	6.874	162	180347	10.88	ppm	99
35) 1,3,5-Trichlorobenzene	6.340	180	208112	10.80	ppm	99
36) 1,2,4-Trichlorobenzene	6.708	180	201044	10.66	ppm	99
37) 1,2,3-Trichlorobenzene	6.970	180	195626	10.39	ppm	99
38) Naphthalene	6.799	128	630581	10.53	ppm	99
39) 4-Chloroaniline	6.869	127	273293	11.01	ppm	99
40) 2,3-Dichloroaniline	7.969	161	221063	10.58	ppm	98
41) Caprolactam	7.269	55	70588	10.37	ppm	96
42) Hexachlorobutadiene	6.954	225	101026	10.13	ppm	98
43) 4-Chloro-3-methylphenol	7.456	107	185350	10.09	ppm	97
44) 2-Methylnaphthalene	7.633	141	367354	10.73	ppm	99
45) 1-Methylnaphthalene	7.750	141	381778	10.76	ppm	97
46) Dimethylnaphthalene	8.391	156	392240	10.44	ppm	99
48) Hexachlorocyclopentadiene	7.825	237	172667	21.74	ppm	99
49) 2,4,6-Trichlorophenol	7.975	196	128048	11.21	ppm	93
50) 2,4,5-Trichlorophenol	8.012	196	130710	10.37	ppm	99
52) 2-Chloronaphthalene	8.215	162	407485	10.70	ppm	99
53) Biphenyl	8.204	154	537164	11.01	ppm	99
54) 2-Nitroaniline	8.343	65	101194	10.52	ppm	99
55) Dimethylphthalate	8.589	163	473990	10.45	ppm	100
56) Acenaphthylene	8.717	152	660003	11.03	ppm	97
57) 2,6-Dinitrotoluene	8.653	165	96670	10.19	ppm	91
58) 3-Nitroaniline	8.845	138	118114	10.87	ppm	95
59) Acenaphthene	8.931	153	414234	10.69	ppm	98
60) 2,4-Dinitrophenol	8.974	184	79477	15.43	ppm	80
61) 4-Nitrophenol	9.059	109	55596	9.52	ppm	86
62) Dibenzofuran	9.139	168	571318	10.93	ppm	98
63) 2,4-Dinitrotoluene	9.134	165	141216	11.64	ppm	91
64) 2,3,4,6-Tetrachlorophenol	9.289	232	105337	10.69	ppm	96
65) Diethylphthalate	9.454	149	499426	10.85	ppm	100
66) Fluorene	9.556	166	466944	10.80	ppm	99
67) 4-Chlorophenyl-phenyle...	9.577	204	213624	10.33	ppm	97
68) 4-Nitroaniline	9.583	138	122180	11.41	ppm	96
70) 4,6-Dinitro-2-methylph...	9.620	198	62831	10.22	ppm	98
71) n-Nitrosodiphenylamine	9.716	169	342280	10.64	ppm	98
72) 1,2-Diphenylhydrazine	9.764	77	362374	10.94	ppm	99
74) 4-Bromophenyl-phenylether	10.176	248	131001	10.51	ppm	89
75) Hexachlorobenzene	10.224	284	129145	10.24	ppm	98
76) Pentachlorophenol	10.480	266	164272	21.72	ppm	95

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27323.D
Acq On : 11 Apr 2016 12:25 pm
Operator : seanb1
Sample : ic1382-10
Misc : op92466,e5p1382
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 15:07:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:05:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.758	178	670484	10.66 ppm	97
78) Anthracene	10.822	178	683118	10.86 ppm	99
79) Carbazole	11.041	167	637936	10.76 ppm	99
80) Di-n-butylphthalate	11.570	149	838990	11.35 ppm	99
81) Fluoranthene	12.382	202	697996	10.81 ppm	99
82) Octadecane	10.651	57	223644	10.86 ppm	97
84) Pyrene	12.708	202	746105	10.99 ppm	100
86) Butylbenzylphthalate	13.766	149	364806	11.04 ppm	98
87) Butyl stearate	13.921	56	148506	10.93 ppm	92
88) Benzo[a]anthracene	14.519	228	655777	10.65 ppm	98
89) 3,3'-Dichlorobenzidine	14.514	252	251977	11.48 ppm	99
90) Chrysene	14.572	228	662022	10.57 ppm	98
91) bis(2-Ethylhexyl)phtha...	14.690	149	527305	11.30 ppm	98
93) Di-n-octylphthalate	15.662	149	887596	11.81 ppm	100
94) Benzo[b]fluoranthene	16.079	252	706896	10.81 ppm	100
95) Benzo[k]fluoranthene	16.122	252	673510	10.94 ppm	98
96) Benzo[a]pyrene	16.517	252	627331	10.74 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.237	276	610502	10.59 ppm	97
98) Dibenz(a,h)acridine	17.868	279	543255	10.65 ppm	97
99) Dibenz[a,h]anthracene	18.290	278	618721	10.22 ppm	97
100) 7,12-Dimethylbenz(a)an...	16.084	256	263464	10.79 ppm	99
101) Benzo[g,h,i]perylene	18.707	276	630415	10.24 ppm	99

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

7.6.50

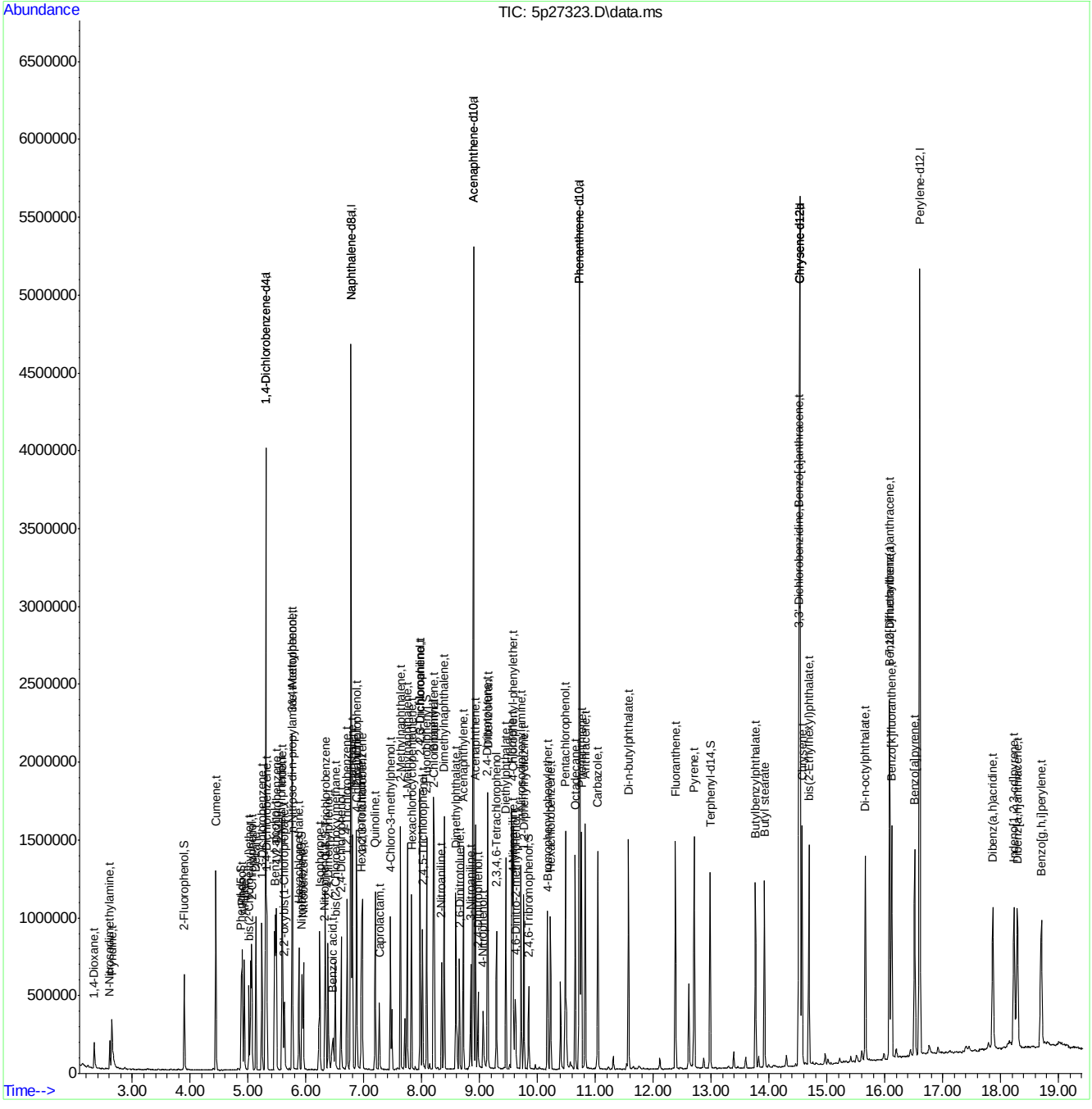
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27323.D
Acq On : 11 Apr 2016 12:25 pm
Operator : seanb1
Sample : ic1382-10
Misc : op92466,e5p1382
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 15:07:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:05:28 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27324.D
Acq On : 11 Apr 2016 12:52 pm
Operator : seanb1
Sample : ic1382-5
Misc : op92466,e5p1382
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 15:05:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:51:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	640560	40.00	ppm	0.00
24) Naphthalene-d8	6.772	136	2405253	40.00	ppm	0.00
47) Acenaphthene-d10	8.888	164	1388011	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	2261772	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2324072	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2263982	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	640560	40.00	ppm	0.00
104) Acenaphthene-d10a	8.888	164	1388011	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2323998	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	2261772	40.00	ppm	0.00
112) Naphthalene-d8a	6.772	136	2405253	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2323998	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.893	112	102390	5.31	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.62%	
8) Phenol-d5	4.887	99	115375	5.30	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.60%	
25) Nitrobenzene-d5	5.928	82	97182	5.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.92%	
51) 2-Fluorobiphenyl	8.087	172	239024	5.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.08%	
73) 2,4,6-Tribromophenol	9.844	330	25760	4.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.66%	
85) Terphenyl-d14	12.985	244	242309	5.32	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.64%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.338	88	39421	5.20	ppm	85
3) Pyridine	2.648	79	83027	5.15	ppm	94
4) N-Nitrosodimethylamine	2.605	74	45813	5.09	ppm	100
6) Indene	5.592	116	193941	5.67	ppm	95
7) Cumene	4.438	105	249747	5.37	ppm	98
9) Phenol	4.897	94	120588	5.32	ppm	92
10) Aniline	4.935	93	144024	5.77	ppm	89
11) bis(2-Chloroethyl)ether	5.015	93	86713	5.08	ppm	90
12) 2-Chlorophenol	5.063	128	118982	5.44	ppm	97
13) Decane	5.132	43	78034	5.36	ppm	96
14) 1,3-Dichlorobenzene	5.239	146	133053	5.50	ppm	93
15) 1,4-Dichlorobenzene	5.325	146	133486	5.43	ppm	98
16) Benzyl alcohol	5.458	108	66593	5.34	ppm	81
17) 1,2-Dichlorobenzene	5.490	146	127380	5.44	ppm	95
18) Acetophenone	5.763	105	150947	5.54	ppm	96
19) 2-Methylphenol	5.581	108	92629	5.73	ppm	86
20) 2,2'-oxybis(1-Chloropr...	5.619	45	103142	5.21	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27324.D
Acq On : 11 Apr 2016 12:52 pm
Operator : seanb1
Sample : ic1382-5
Misc : op92466,e5p1382
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 15:05:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:51:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.757	108	94736	5.43	ppm		96
22) n-Nitroso-di-n-propyla...	5.763	70	64997	5.30	ppm		96
23) Hexachloroethane	5.875	201	42472	5.45	ppm		92
26) Nitrobenzene	5.955	77	95831	5.45	ppm		90
27) Quinoline	7.194	129	218957	5.27	ppm		99
28) Isophorone	6.238	82	167482	5.49	ppm		99
29) 2-Nitrophenol	6.324	139	58636	5.43	ppm		99
30) 2,4-Dimethylphenol	6.382	107	86672	4.91	ppm		88
31) Benzoic acid	6.452	105	54939	4.57	ppm		97
32) bis(2-Chloroethoxy)met...	6.505	93	109865	5.48	ppm		99
33) 2,4-Dichlorophenol	6.607	162	91970	5.59	ppm		98
34) 2,6-Dichlorophenol	6.874	162	90051	5.53	ppm		89
35) 1,3,5-Trichlorobenzene	6.340	180	109604	5.73	ppm		93
36) 1,2,4-Trichlorobenzene	6.708	180	105945	5.68	ppm		96
37) 1,2,3-Trichlorobenzene	6.970	180	105272	5.65	ppm		98
38) Naphthalene	6.799	128	333951	5.61	ppm		99
39) 4-Chloroaniline	6.869	127	142607	5.81	ppm		97
40) 2,3-Dichloroaniline	7.969	161	114618	5.49	ppm		95
41) Caprolactam	7.259	55	34011	5.15	ppm		96
42) Hexachlorobutadiene	6.954	225	54618	5.63	ppm		96
43) 4-Chloro-3-methylphenol	7.456	107	98973	5.57	ppm		89
44) 2-Methylnaphthalene	7.633	141	189609	5.55	ppm		98
45) 1-Methylnaphthalene	7.750	141	195837	5.49	ppm		98
46) Dimethylnaphthalene	8.391	156	204213	5.43	ppm		98
48) Hexachlorocyclopentadiene	7.825	237	81500	10.86	ppm		89
49) 2,4,6-Trichlorophenol	7.974	196	60891	5.38	ppm		96
50) 2,4,5-Trichlorophenol	8.012	196	68072	5.54	ppm		93
52) 2-Chloronaphthalene	8.215	162	213167	5.60	ppm		98
53) Biphenyl	8.204	154	272069	5.52	ppm		99
54) 2-Nitroaniline	8.343	65	51093	5.41	ppm		97
55) Dimethylphthalate	8.589	163	250878	5.55	ppm		98
56) Acenaphthylene	8.717	152	327558	5.45	ppm		100
57) 2,6-Dinitrotoluene	8.648	165	48950	5.38	ppm		89
58) 3-Nitroaniline	8.845	138	56725	5.44	ppm		92
59) Acenaphthene	8.931	153	217178	5.62	ppm		96
60) 2,4-Dinitrophenol	8.973	184	30178	6.32	ppm		93
61) 4-Nitrophenol	9.059	109	27930	5.13	ppm	#	54
62) Dibenzofuran	9.139	168	299016	5.69	ppm		96
63) 2,4-Dinitrotoluene	9.128	165	69122	6.03	ppm		83
64) 2,3,4,6-Tetrachlorophenol	9.289	232	51743	5.40	ppm		92
65) Diethylphthalate	9.454	149	255137	5.55	ppm		99
66) Fluorene	9.556	166	246003	5.74	ppm		93
67) 4-Chlorophenyl-phenyle...	9.572	204	114879	5.54	ppm		98
68) 4-Nitroaniline	9.582	138	58696	5.61	ppm		96
70) 4,6-Dinitro-2-methylph...	9.620	198	26753	4.79	ppm		83
71) n-Nitrosodiphenylamine	9.716	169	174784	5.51	ppm		93
72) 1,2-Diphenylhydrazine	9.764	77	180207	5.52	ppm		98
74) 4-Bromophenyl-phenylether	10.170	248	65980	5.37	ppm		95
75) Hexachlorobenzene	10.224	284	67033	5.39	ppm		97
76) Pentachlorophenol	10.480	266	77554	10.89	ppm		96

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27324.D
Acq On : 11 Apr 2016 12:52 pm
Operator : seanb1
Sample : ic1382-5
Misc : op92466,e5p1382
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 15:05:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:51:06 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	10.758	178	347273	5.60	ppm	99
78)	Anthracene	10.822	178	343033	5.53	ppm	98
79)	Carbazole	11.041	167	327722	5.65	ppm	97
80)	Di-n-butylphthalate	11.570	149	418896	5.89	ppm	99
81)	Fluoranthene	12.382	202	357858	5.66	ppm	98
82)	Octadecane	10.651	57	113114	5.64	ppm	97
84)	Pyrene	12.708	202	386899	5.60	ppm	98
86)	Butylbenzylphthalate	13.765	149	180477	5.44	ppm	96
87)	Butyl stearate	13.920	56	76191	5.69	ppm	97
88)	Benzo[a]anthracene	14.519	228	339410	5.39	ppm	98
89)	3,3'-Dichlorobenzidine	14.513	252	122014	5.57	ppm	97
90)	Chrysene	14.567	228	345910	5.39	ppm	98
91)	bis(2-Ethylhexyl)phtha...	14.690	149	258073	5.56	ppm	99
93)	Di-n-octylphthalate	15.662	149	436958	6.14	ppm	98
94)	Benzo[b]fluoranthene	16.079	252	359782	5.62	ppm	99
95)	Benzo[k]fluoranthene	16.116	252	343490	5.72	ppm	94
96)	Benzo[a]pyrene	16.517	252	321760	5.66	ppm	97
97)	Indeno[1,2,3-cd]pyrene	18.232	276	300200	5.36	ppm	95
98)	Dibenz(a,h)acridine	17.863	279	271460	5.51	ppm	76
99)	Dibenz[a,h]anthracene	18.285	278	305559	5.18	ppm	95
100)	7,12-Dimethylbenz(a)an...	16.084	256	123878	5.15	ppm	98
101)	Benzo[g,h,i]perylene	18.702	276	320953	5.33	ppm	97

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

7.6.51

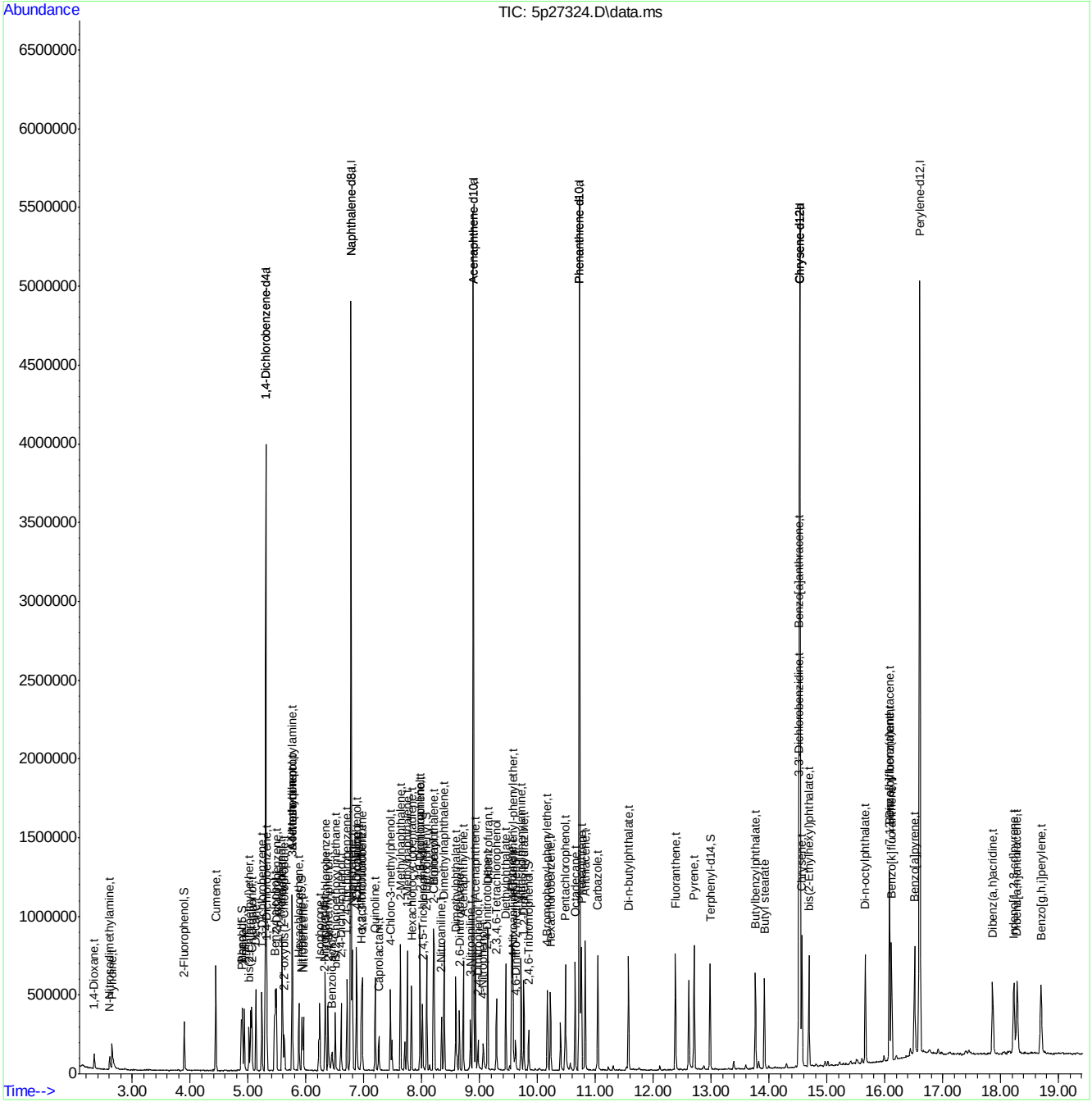
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27324.D
Acq On : 11 Apr 2016 12:52 pm
Operator : seanb1
Sample : ic1382-5
Misc : op92466,e5p1382
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 15:05:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:51:06 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27325.D
Acq On : 11 Apr 2016 1:19 pm
Operator : seanb1
Sample : ic1382-2
Misc : op92466,e5p1382
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 14:50:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:49:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	578669	40.00	ppm	0.00
24) Naphthalene-d8	6.772	136	2212863	40.00	ppm	0.00
47) Acenaphthene-d10	8.888	164	1278278	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	2086012	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2098467	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2065623	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	578669	40.00	ppm	0.00
104) Acenaphthene-d10a	8.888	164	1278278	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2098423	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	2086012	40.00	ppm	0.00
112) Naphthalene-d8a	6.772	136	2212863	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2098423	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.893	112	34394	1.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.94%	
8) Phenol-d5	4.881	99	40367	2.07	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.14%	
25) Nitrobenzene-d5	5.928	82	33205	2.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.08%	
51) 2-Fluorobiphenyl	8.087	172	86939	2.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.52%	
73) 2,4,6-Tribromophenol	9.849	330	8788	1.72	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.44%	
85) Terphenyl-d14	12.980	244	87097	2.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.32%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.338	88	14159	2.09	ppm	88
3) Pyridine	2.664	79	27273	1.83	ppm	87
4) N-Nitrosodimethylamine	2.616	74	15900	1.94	ppm	88
6) Indene	5.592	116	66514	2.21	ppm	88
7) Cumene	4.438	105	90785	2.22	ppm	94
9) Phenol	4.897	94	42881	2.13	ppm	87
10) Aniline	4.935	93	52920	2.49	ppm	90
11) bis(2-Chloroethyl)ether	5.015	93	32503	2.15	ppm	98
12) 2-Chlorophenol	5.063	128	41180	2.11	ppm	93
13) Decane	5.132	43	28784	2.26	ppm	91
14) 1,3-Dichlorobenzene	5.239	146	46934	2.20	ppm	88
15) 1,4-Dichlorobenzene	5.325	146	48105	2.23	ppm	95
16) Benzyl alcohol	5.458	108	22904	2.05	ppm	78
17) 1,2-Dichlorobenzene	5.490	146	45166	2.19	ppm	96
18) Acetophenone	5.763	105	54473	2.29	ppm	92
19) 2-Methylphenol	5.581	108	29433	2.02	ppm	100
20) 2,2'-oxybis(1-Chloropr...	5.624	45	37285	2.12	ppm	94

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27325.D
Acq On : 11 Apr 2016 1:19 pm
Operator : seanb1
Sample : ic1382-2
Misc : op92466,e5p1382
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 14:50:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:49:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.757	108	33456	2.17	ppm		87
22) n-Nitroso-di-n-propyla...	5.763	70	23156	2.12	ppm		92
23) Hexachloroethane	5.875	201	14441	2.07	ppm		92
26) Nitrobenzene	5.950	77	35315	2.25	ppm		98
27) Quinoline	7.194	129	76798	2.01	ppm		99
28) Isophorone	6.233	82	59020	2.14	ppm		99
29) 2-Nitrophenol	6.324	139	19573	1.96	ppm		94
30) 2,4-Dimethylphenol	6.382	107	30674	1.85	ppm		96
31) Benzoic acid	6.436	105	15207	1.24	ppm		91
32) bis(2-Chloroethoxy)met...	6.505	93	38189	2.09	ppm		97
33) 2,4-Dichlorophenol	6.607	162	30201	1.99	ppm		99
34) 2,6-Dichlorophenol	6.874	162	30424	2.04	ppm		95
35) 1,3,5-Trichlorobenzene	6.340	180	38577	2.27	ppm		99
36) 1,2,4-Trichlorobenzene	6.708	180	36931	2.21	ppm		97
37) 1,2,3-Trichlorobenzene	6.970	180	36737	2.19	ppm		97
38) Naphthalene	6.799	128	118647	2.23	ppm		96
39) 4-Chloroaniline	6.869	127	49472	2.26	ppm		91
40) 2,3-Dichloroaniline	7.969	161	41208	2.20	ppm		91
41) Caprolactam	7.253	55	10799	1.71	ppm		91
42) Hexachlorobutadiene	6.954	225	17842	2.00	ppm		92
43) 4-Chloro-3-methylphenol	7.456	107	31440	1.90	ppm	#	86
44) 2-Methylnaphthalene	7.632	141	68153	2.23	ppm		94
45) 1-Methylnaphthalene	7.750	141	72193	2.28	ppm		92
46) Dimethylnaphthalene	8.391	156	74018	2.19	ppm		96
48) Hexachlorocyclopentadiene	7.825	237	22789	3.11	ppm		91
49) 2,4,6-Trichlorophenol	7.974	196	21063	2.03	ppm		92
50) 2,4,5-Trichlorophenol	8.012	196	22104	1.94	ppm		98
52) 2-Chloronaphthalene	8.215	162	76564	2.25	ppm		96
53) Biphenyl	8.204	154	101626	2.33	ppm		97
54) 2-Nitroaniline	8.343	65	17043	1.95	ppm		97
55) Dimethylphthalate	8.589	163	89260	2.20	ppm		98
56) Acenaphthylene	8.717	152	119456	2.22	ppm		99
57) 2,6-Dinitrotoluene	8.647	165	14712	1.69	ppm		86
58) 3-Nitroaniline	8.845	138	17045	1.71	ppm		87
59) Acenaphthene	8.925	153	77082	2.23	ppm		95
60) 2,4-Dinitrophenol	8.973	184	6576	1.14	ppm		83
61) 4-Nitrophenol	9.064	109	7862	1.42	ppm	#	56
62) Dibenzofuran	9.139	168	109770	2.37	ppm		96
63) 2,4-Dinitrotoluene	9.128	165	19887	1.85	ppm		72
64) 2,3,4,6-Tetrachlorophenol	9.289	232	16601	1.84	ppm		89
65) Diethylphthalate	9.454	149	91197	2.21	ppm		96
66) Fluorene	9.556	166	85597	2.23	ppm		96
67) 4-Chlorophenyl-phenyle...	9.572	204	41819	2.26	ppm		88
68) 4-Nitroaniline	9.582	138	19339	2.01	ppm		91
70) 4,6-Dinitro-2-methylph...	9.620	198	6219	1.07	ppm		65
71) n-Nitrosodiphenylamine	9.716	169	63514	2.24	ppm		96
72) 1,2-Diphenylhydrazine	9.764	77	65356	2.23	ppm		96
74) 4-Bromophenyl-phenylether	10.175	248	24045	2.16	ppm		96
75) Hexachlorobenzene	10.223	284	24272	2.16	ppm		86
76) Pentachlorophenol	10.480	266	23217	3.40	ppm		87

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27325.D
Acq On : 11 Apr 2016 1:19 pm
Operator : seanb1
Sample : ic1382-2
Misc : op92466,e5p1382
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 14:50:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:49:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.758	178	126182	2.28	ppm	98
78) Anthracene	10.822	178	125111	2.26	ppm	97
79) Carbazole	11.041	167	116059	2.23	ppm	95
80) Di-n-butylphthalate	11.570	149	139330	2.17	ppm	99
81) Fluoranthene	12.382	202	127048	2.25	ppm	95
82) Octadecane	10.651	57	39353	2.17	ppm	97
84) Pyrene	12.708	202	135053	2.23	ppm	98
86) Butylbenzylphthalate	13.765	149	59711	1.99	ppm	98
87) Butyl stearate	13.920	56	23370	1.91	ppm	84
88) Benzo[a]anthracene	14.519	228	120292	2.16	ppm	96
89) 3,3'-Dichlorobenzidine	14.513	252	39403	1.99	ppm	88
90) Chrysene	14.567	228	123423	2.18	ppm	95
91) bis(2-Ethylhexyl)phtha...	14.690	149	82460	1.96	ppm	99
93) Di-n-octylphthalate	15.667	149	134461	2.10	ppm	96
94) Benzo[b]fluoranthene	16.079	252	125197	2.20	ppm	99
95) Benzo[k]fluoranthene	16.116	252	117981	2.21	ppm	96
96) Benzo[a]pyrene	16.517	252	109387	2.15	ppm	94
97) Indeno[1,2,3-cd]pyrene	18.231	276	101238	1.97	ppm	96
98) Dibenz(a,h)acridine	17.863	279	89801	2.00	ppm	97
99) Dibenz[a,h]anthracene	18.285	278	104089	1.91	ppm	96
100) 7,12-Dimethylbenz(a)an...	16.084	256	44101	2.01	ppm	89
101) Benzo[g,h,i]perylene	18.702	276	111150	2.03	ppm	92

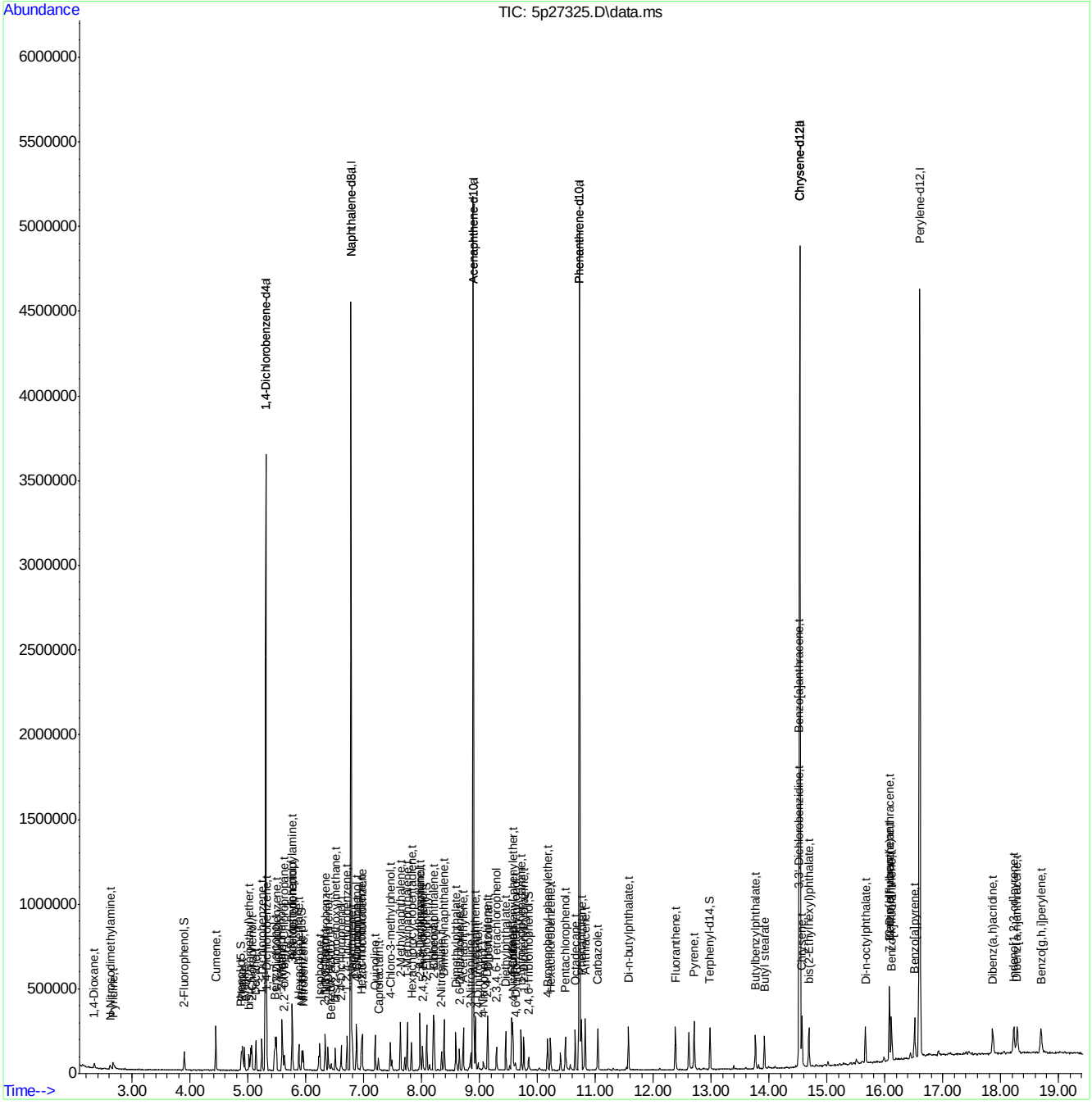
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27325.D
Acq On : 11 Apr 2016 1:19 pm
Operator : seanb1
Sample : ic1382-2
Misc : op92466,e5p1382
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 14:50:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:49:23 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27326.D
Acq On : 11 Apr 2016 1:46 pm
Operator : seanb1
Sample : ic1382-1
Misc : op92466,e5p1382
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 14:46:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:39:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	582644	40.00	ppm	0.00
24) Naphthalene-d8	6.773	136	2218624	40.00	ppm	0.00
47) Acenaphthene-d10	8.888	164	1273412	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	2079789	40.00	ppm	0.00
83) Chrysene-d12	14.529	240	2087072	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2043437	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	582644	40.00	ppm	0.00
104) Acenaphthene-d10a	8.888	164	1273412	40.00	ppm	0.00
106) Chrysene-d12a	14.529	240	2087072	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	2079789	40.00	ppm	0.00
112) Naphthalene-d8a	6.773	136	2218624	40.00	ppm	0.00
114) Chrysene-d12b	14.529	240	2087072	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.893	112	17539	1.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.00%	
8) Phenol-d5	4.887	99	18578	0.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.90%	
25) Nitrobenzene-d5	5.928	82	15986	0.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.96%	
51) 2-Fluorobiphenyl	8.087	172	41830	1.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.18%	
73) 2,4,6-Tribromophenol	9.850	330	4473	0.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.78%	
85) Terphenyl-d14	12.980	244	41871	1.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.08%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.344	88	7860	1.26	ppm	96
3) Pyridine	2.675	79	14601	1.02	ppm	99
4) N-Nitrosodimethylamine	2.622	74	7313	0.93	ppm	99
6) Indene	5.592	116	33238	1.09	ppm	100
7) Cumene	4.438	105	45918	1.11	ppm	100
9) Phenol	4.897	94	20132	1.00	ppm	98
10) Aniline	4.935	93	26320	1.24	ppm	99
11) bis(2-Chloroethyl)ether	5.015	93	16158	1.06	ppm	95
12) 2-Chlorophenol	5.063	128	20506	1.04	ppm	100
13) Decane	5.132	43	14082	1.10	ppm	100
14) 1,3-Dichlorobenzene	5.234	146	23243	1.08	ppm	100
15) 1,4-Dichlorobenzene	5.325	146	23948	1.10	ppm	100
16) Benzyl alcohol	5.458	108	11306	1.00	ppm	100
17) 1,2-Dichlorobenzene	5.490	146	23547	1.13	ppm	100
18) Acetophenone	5.758	105	27245	1.15	ppm	100
19) 2-Methylphenol	5.581	108	15203	1.04	ppm	100
20) 2,2'-oxybis(1-Chloropr...	5.624	45	18775	1.05	ppm	91

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27326.D
Acq On : 11 Apr 2016 1:46 pm
Operator : seanb1
Sample : ic1382-1
Misc : op92466,e5p1382
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 14:46:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:39:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.758	108	15854	1.02	ppm	100
22) n-Nitroso-di-n-propyla...	5.763	70	11890	1.08	ppm	100
23) Hexachloroethane	5.875	201	7294	1.04	ppm	100
26) Nitrobenzene	5.955	77	15483	0.98	ppm	100
27) Quinoline	7.195	129	38751	1.01	ppm	100
28) Isophorone	6.233	82	28005	1.01	ppm	100
29) 2-Nitrophenol	6.324	139	9618	0.96	ppm	100
30) 2,4-Dimethylphenol	6.383	107	15230	0.92	ppm	100
31) Benzoic acid	6.431	105	6777	0.57	ppm	98
32) bis(2-Chloroethoxy)met...	6.505	93	19040	1.05	ppm	100
33) 2,4-Dichlorophenol	6.607	162	15061	1.00	ppm	100
34) 2,6-Dichlorophenol	6.874	162	15670	1.05	ppm	100
35) 1,3,5-Trichlorobenzene	6.340	180	19709	1.15	ppm	100
36) 1,2,4-Trichlorobenzene	6.708	180	17828	1.06	ppm	100
37) 1,2,3-Trichlorobenzene	6.970	180	18693	1.11	ppm	100
38) Naphthalene	6.799	128	60700	1.14	ppm	100
39) 4-Chloroaniline	6.869	127	24905	1.14	ppm	99
40) 2,3-Dichloroaniline	7.969	161	20021	1.08	ppm	100
41) Caprolactam	7.253	55	5318	0.84	ppm	98
42) Hexachlorobutadiene	6.954	225	10112	1.13	ppm	100
43) 4-Chloro-3-methylphenol	7.456	107	16817	1.03	ppm	100
44) 2-Methylnaphthalene	7.633	141	33737	1.10	ppm	100
45) 1-Methylnaphthalene	7.750	141	34812	1.09	ppm	100
46) Dimethylnaphthalene	8.391	156	36571	1.08	ppm	100
48) Hexachlorocyclopentadiene	7.825	237	9776	1.34	ppm	100
49) 2,4,6-Trichlorophenol	7.975	196	10498	1.02	ppm	100
50) 2,4,5-Trichlorophenol	8.012	196	10882	0.99	ppm	99
52) 2-Chloronaphthalene	8.215	162	37583	1.11	ppm	100
53) Biphenyl	8.199	154	49190	1.13	ppm	100
54) 2-Nitroaniline	8.343	65	7606	0.87	ppm	100
55) Dimethylphthalate	8.589	163	43745	1.08	ppm	100
56) Acenaphthylene	8.717	152	57300	1.07	ppm	100
57) 2,6-Dinitrotoluene	8.648	165	7392	0.85	ppm	100
58) 3-Nitroaniline	8.845	138	8080	0.82	ppm	100
59) Acenaphthene	8.925	153	39107	1.14	ppm	99
62) Dibenzofuran	9.139	168	53377	1.16	ppm	100
63) 2,4-Dinitrotoluene	9.128	165	8701	0.81	ppm	100
64) 2,3,4,6-Tetrachlorophenol	9.294	232	8144	0.91	ppm	100
65) Diethylphthalate	9.449	149	42788	1.04	ppm	100
66) Fluorene	9.556	166	41429	1.08	ppm	100
67) 4-Chlorophenyl-phenyle...	9.572	204	21074	1.14	ppm	100
68) 4-Nitroaniline	9.583	138	7432	0.77	ppm	100
70) 4,6-Dinitro-2-methylph...	9.620	198	2432	0.42	ppm	100
71) n-Nitrosodiphenylamine	9.716	169	30712	1.08	ppm	100
72) 1,2-Diphenylhydrazine	9.764	77	30268	1.04	ppm	100
74) 4-Bromophenyl-phenylether	10.176	248	11995	1.08	ppm	100
75) Hexachlorobenzene	10.224	284	11500	1.03	ppm	100
76) Pentachlorophenol	10.485	266	9324	1.37	ppm	100
77) Phenanthrene	10.753	178	63408	1.15	ppm	100
78) Anthracene	10.822	178	61417	1.11	ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27326.D
Acq On : 11 Apr 2016 1:46 pm
Operator : seanb1
Sample : ic1382-1
Misc : op92466,e5p1382
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 14:46:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:39:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
79) Carbazole	11.041	167	55591	1.07 ppm	100
80) Di-n-butylphthalate	11.570	149	64667	1.01 ppm	100
81) Fluoranthene	12.382	202	60724	1.08 ppm	100
82) Octadecane	10.651	57	18649	1.04 ppm	100
84) Pyrene	12.708	202	64401	1.07 ppm	100
86) Butylbenzylphthalate	13.766	149	27578	0.92 ppm	100
87) Butyl stearate	13.920	56	10628	0.89 ppm	98
88) Benzo[a]anthracene	14.519	228	63014	1.14 ppm	100
89) 3,3'-Dichlorobenzidine	14.513	252	18706	0.95 ppm	100
90) Chrysene	14.567	228	60410	1.07 ppm	100
91) bis(2-Ethylhexyl)phtha...	14.690	149	36987	0.89 ppm	100
93) Di-n-octylphthalate	15.662	149	57286	0.90 ppm	99
94) Benzo[b]fluoranthene	16.079	252	60054	1.07 ppm	100
95) Benzo[k]fluoranthene	16.116	252	55715	1.06 ppm	100
96) Benzo[a]pyrene	16.517	252	52367	1.04 ppm	100
97) Indeno[1,2,3-cd]pyrene	18.226	276	47610	0.94 ppm	95
98) Dibenz(a,h)acridine	17.863	279	43388	0.98 ppm	100
99) Dibenz[a,h]anthracene	18.285	278	52082	0.97 ppm	100
100) 7,12-Dimethylbenz(a)an...	16.079	256	17441	0.80 ppm	100
101) Benzo[g,h,i]perylene	18.702	276	53136	0.98 ppm	100

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

7.6.53

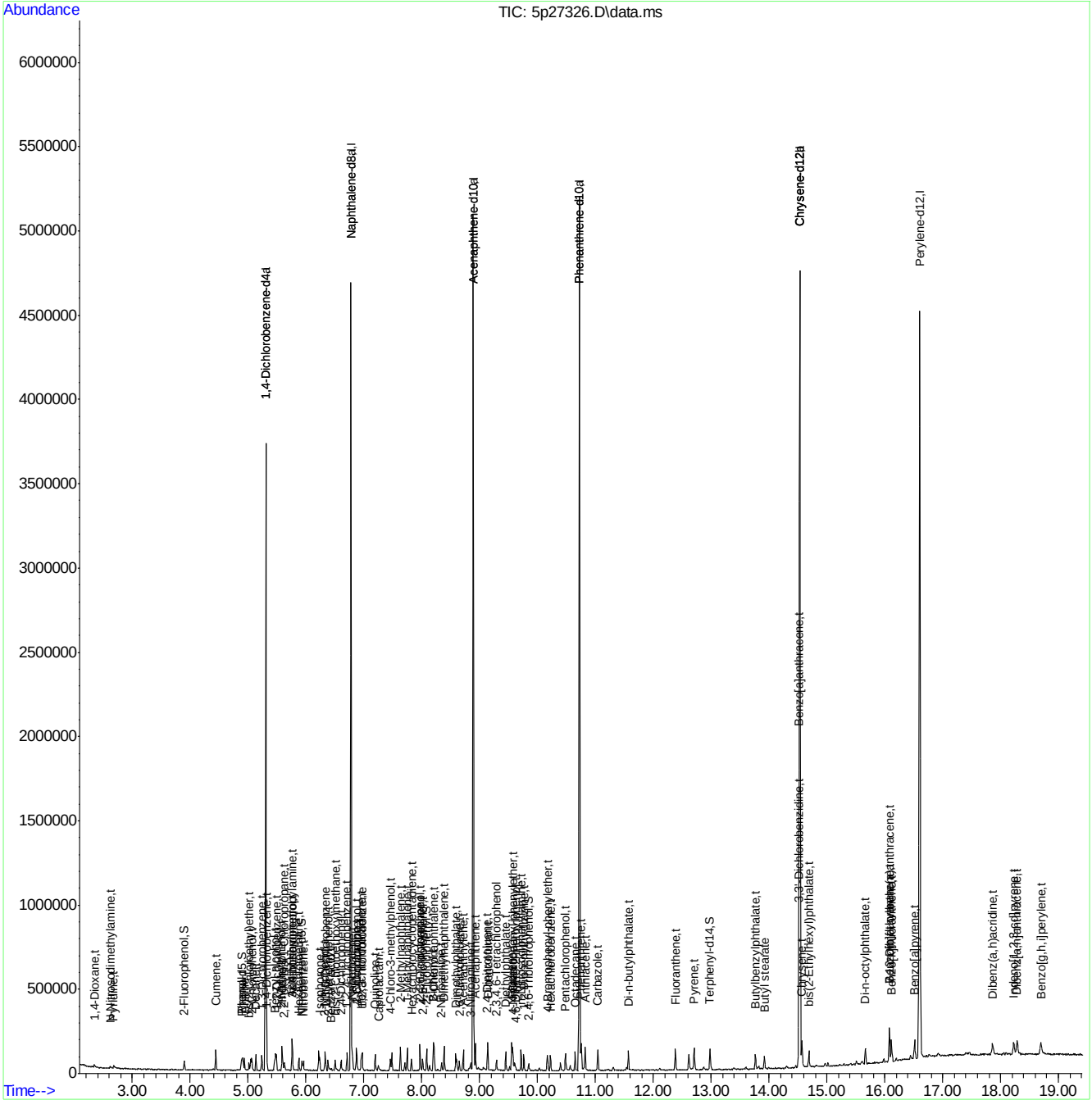
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1382\
Data File : 5p27326.D
Acq On : 11 Apr 2016 1:46 pm
Operator : seanb1
Sample : ic1382-1
Misc : op92466,e5p1382
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 14:46:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 14:39:08 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27328.D
Acq On : 11 Apr 2016 2:57 pm
Operator : ariellec
Sample : ic1383-100
Misc : op92466,e5p1383
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 11 15:41:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:40:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	513169	40.00	ppm	0.00
24) Naphthalene-d8	6.773	136	2027414	40.00	ppm	0.00
47) Acenaphthene-d10	8.893	164	1046650	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1886905	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	1955246	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2040098	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	513169	40.00	ppm	0.00
104) Acenaphthene-d10a	8.893	164	1046650	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	1955246	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1886905	40.00	ppm	0.00
112) Naphthalene-d8a	6.773	136	2027414	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	1955246	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	12.312	57	1055151	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
110) o-terphenyl	11.271	230	2285533	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.823	105	866869	100.00	ppm	100
105) 1,2,4,5-Tetrachloroben...	7.836	216	1273960	100.00	ppm	100
107) Benzidine	12.617	184	1649808	100.00	ppm	100
111) Atrazine	10.411	215	465983	100.00	ppm	100
113) Hydroquinone	7.296	110	1528162	99.84	ppm	100

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

7.6.54

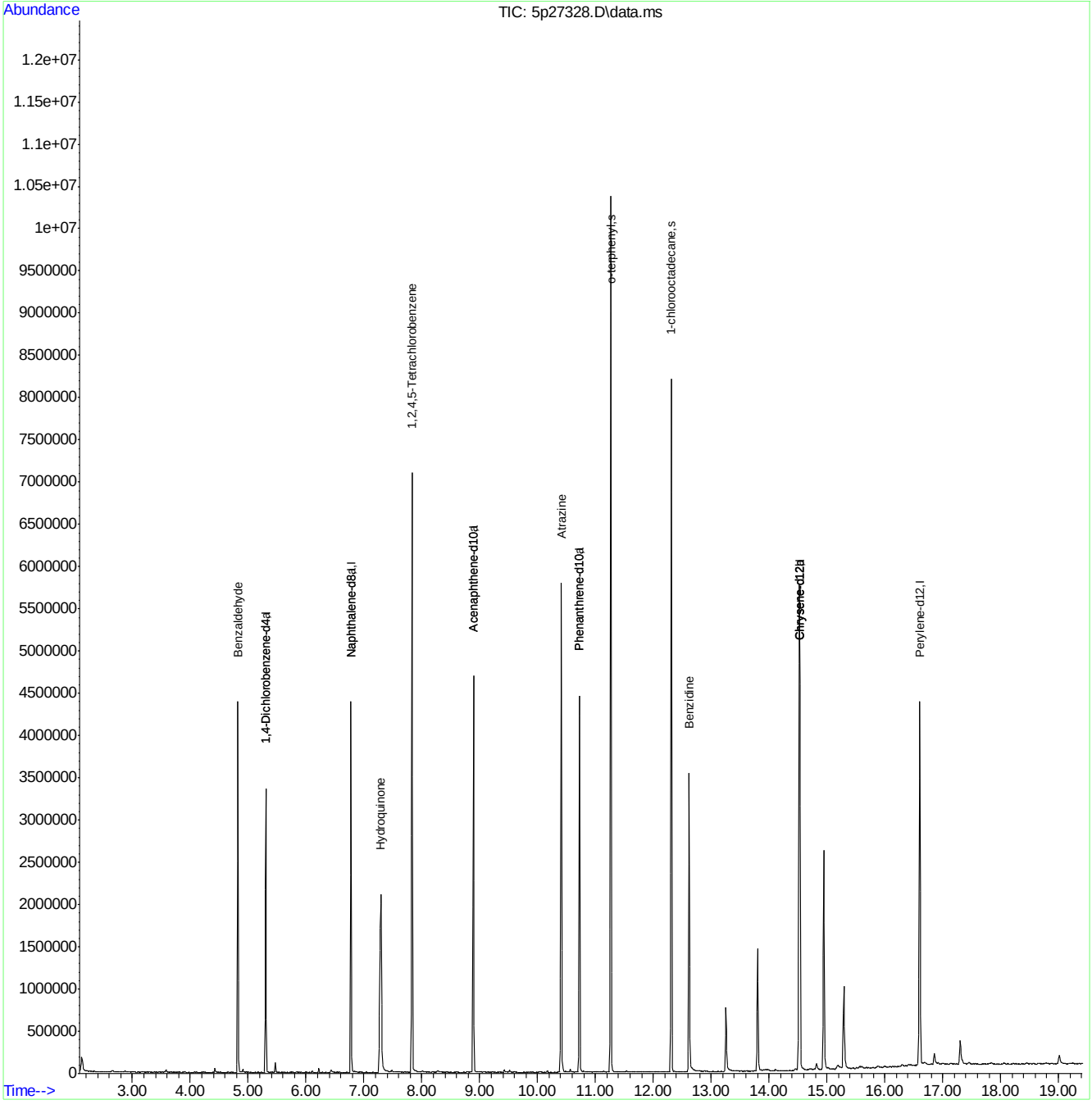
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27328.D
Acq On : 11 Apr 2016 2:57 pm
Operator : ariellec
Sample : ic1383-100
Misc : op92466,e5p1383
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 11 15:41:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:40:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27329.D
Acq On : 11 Apr 2016 3:24 pm
Operator : ariellec
Sample : ic1383-80
Misc : op92466,e5p1383
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 11 15:50:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:40:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	523826	40.00	ppm	0.00
24) Naphthalene-d8	6.773	136	2052826	40.00	ppm	0.00
47) Acenaphthene-d10	8.888	164	1065231	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1972471	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2046512	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2155952	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	523826	40.00	ppm	0.00
104) Acenaphthene-d10a	8.888	164	1065231	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2046512	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1972471	40.00	ppm	0.00
112) Naphthalene-d8a	6.773	136	2052826	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2046512	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	12.312	57	904997	81.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	163.88%	
110) o-terphenyl	11.265	230	1968251	82.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	164.76%	
Target Compounds						Qvalue
103) Benzaldehyde	4.823	105	876803	99.09	ppm	99
105) 1,2,4,5-Tetrachloroben...	7.836	216	1095010	84.45	ppm	99
107) Benzidine	12.617	184	1497242	86.71	ppm	99
111) Atrazine	10.411	215	401457	82.42	ppm	95
113) Hydroquinone	7.285	110	1261442	81.39	ppm	98

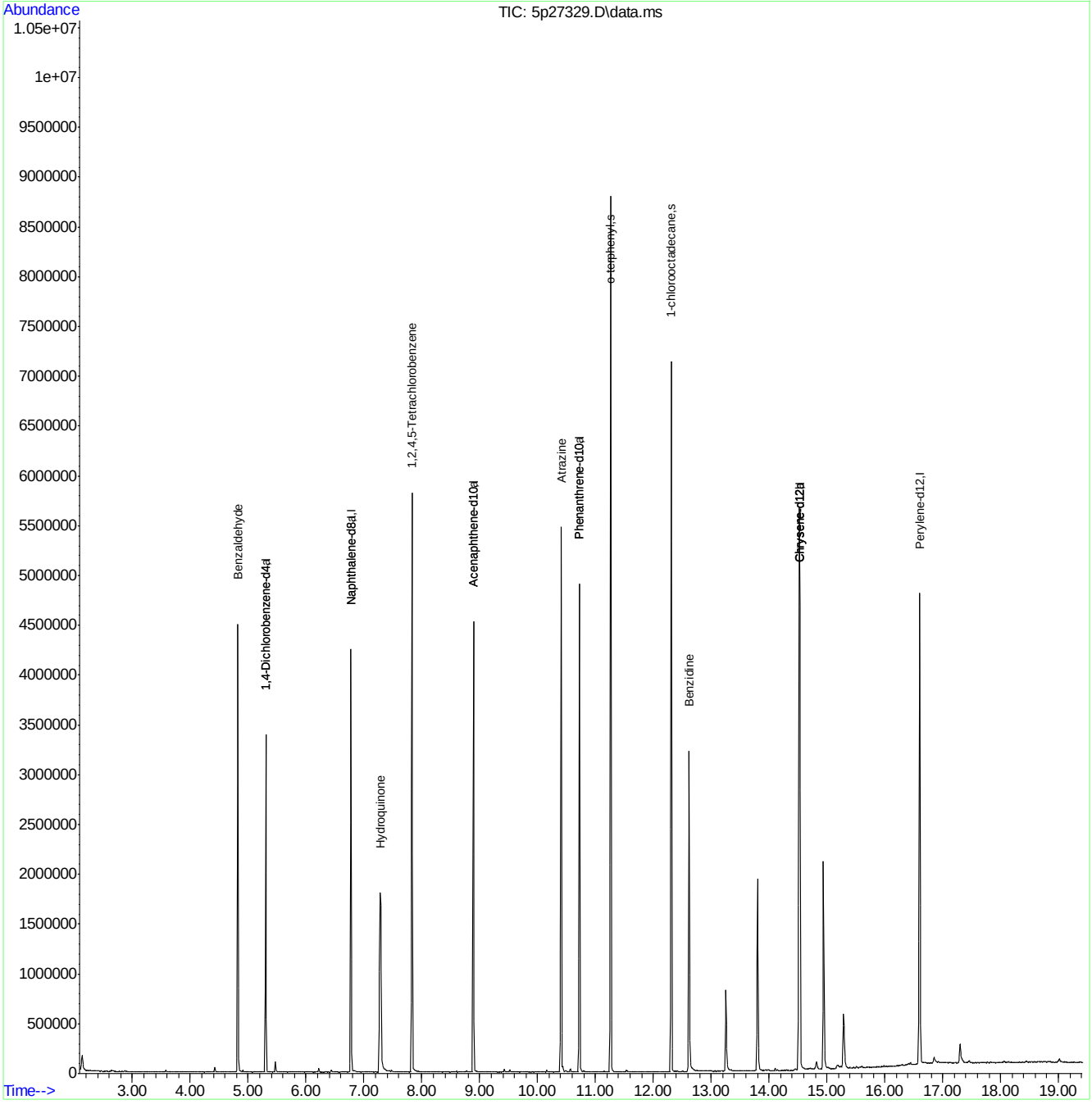
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27329.D
Acq On : 11 Apr 2016 3:24 pm
Operator : ariellec
Sample : ic1383-80
Misc : op92466,e5p1383
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 11 15:50:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:40:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27330.D
Acq On : 11 Apr 2016 3:50 pm
Operator : ariellec
Sample : icc1383-50
Misc : op92466,e5p1383
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 16:41:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:53:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	523839	40.00	ppm	0.00
24) Naphthalene-d8	6.773	136	2093394	40.00	ppm	0.00
47) Acenaphthene-d10	8.888	164	1104941	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1989673	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2128295	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2199553	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	523839	40.00	ppm	0.00
104) Acenaphthene-d10a	8.888	164	1104941	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2128295	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1989673	40.00	ppm	0.00
112) Naphthalene-d8a	6.773	136	2093394	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2128295	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	12.312	57	596218	51.29	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.58%	
110) o-terphenyl	11.265	230	1310245	53.57	ppm	0.00
Spiked Amount 50.000			Recovery	=	107.14%	
Target Compounds						Qvalue
103) Benzaldehyde	4.823	105	626332	63.24	ppm	99
105) 1,2,4,5-Tetrachloroben...	7.830	216	711406	51.46	ppm	99
107) Benzidine	12.617	184	1401454	74.90	ppm	100
111) Atrazine	10.405	215	256849	51.50	ppm	95
113) Hydroquinone	7.275	110	809612	50.78	ppm	99

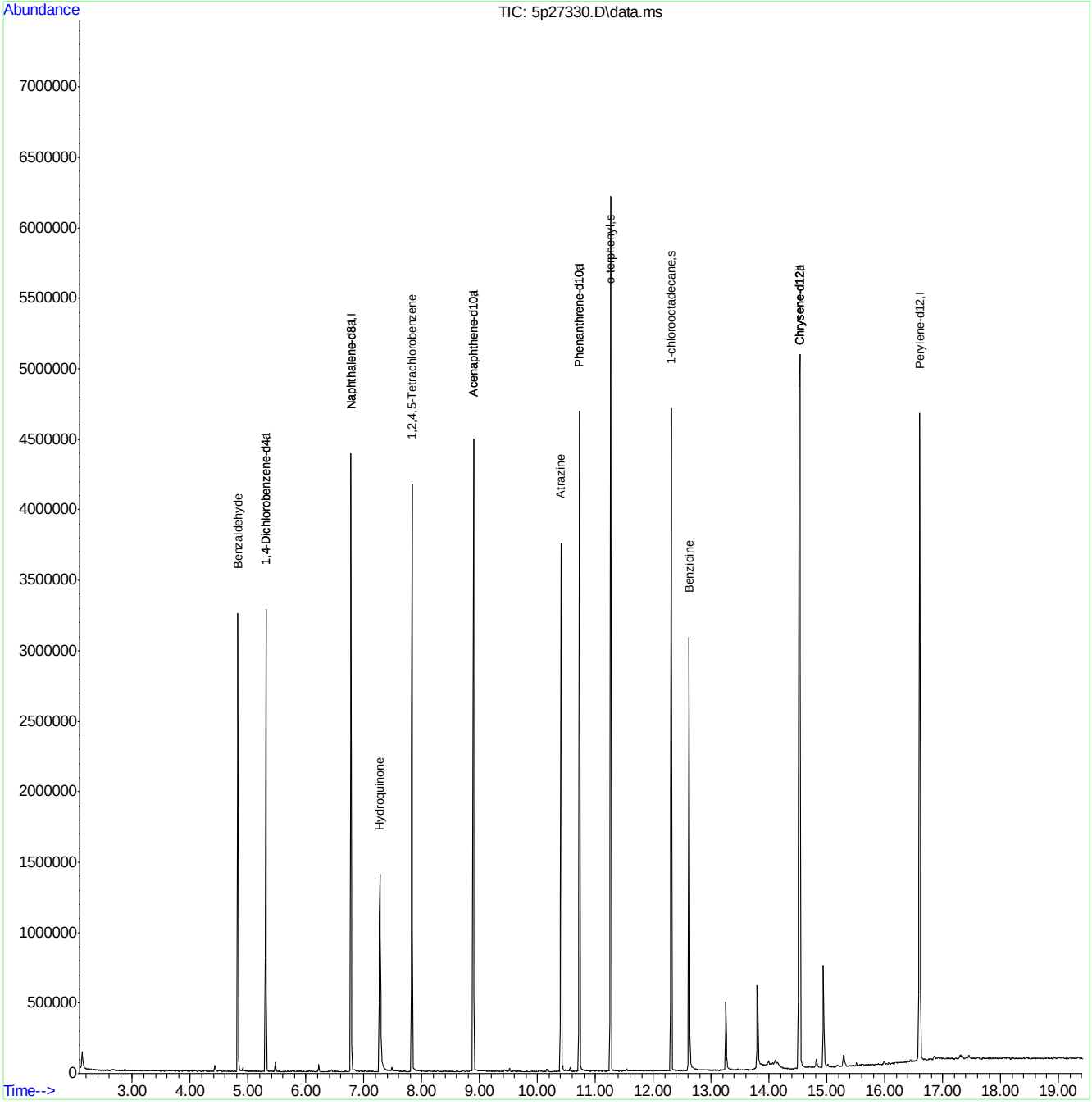
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27330.D
Acq On : 11 Apr 2016 3:50 pm
Operator : ariellec
Sample : icc1383-50
Misc : op92466,e5p1383
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 16:41:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:53:22 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27331.D
Acq On : 11 Apr 2016 4:17 pm
Operator : ariellec
Sample : ic1383-25
Misc : op92466,e5p1383
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 16:43:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:53:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	530701	40.00	ppm	0.00
24) Naphthalene-d8	6.772	136	2087892	40.00	ppm	0.00
47) Acenaphthene-d10	8.893	164	1077642	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1999943	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2118930	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2152084	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	530701	40.00	ppm	0.00
104) Acenaphthene-d10a	8.893	164	1077642	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2118930	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1999943	40.00	ppm	0.00
112) Naphthalene-d8a	6.772	136	2087892	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2118930	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	12.312	57	307835	26.60	ppm	0.00
Spiked Amount 50.000			Recovery	=	53.20%	
110) o-terphenyl	11.265	230	670416	27.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	54.54%	
Target Compounds						Qvalue
103) Benzaldehyde	4.823	105	325100	32.40	ppm	97
105) 1,2,4,5-Tetrachloroben...	7.830	216	364454	27.03	ppm	98
107) Benzidine	12.617	184	738061	39.62	ppm	99
111) Atrazine	10.400	215	129848	25.90	ppm	92
113) Hydroquinone	7.269	110	382012	24.03	ppm	100

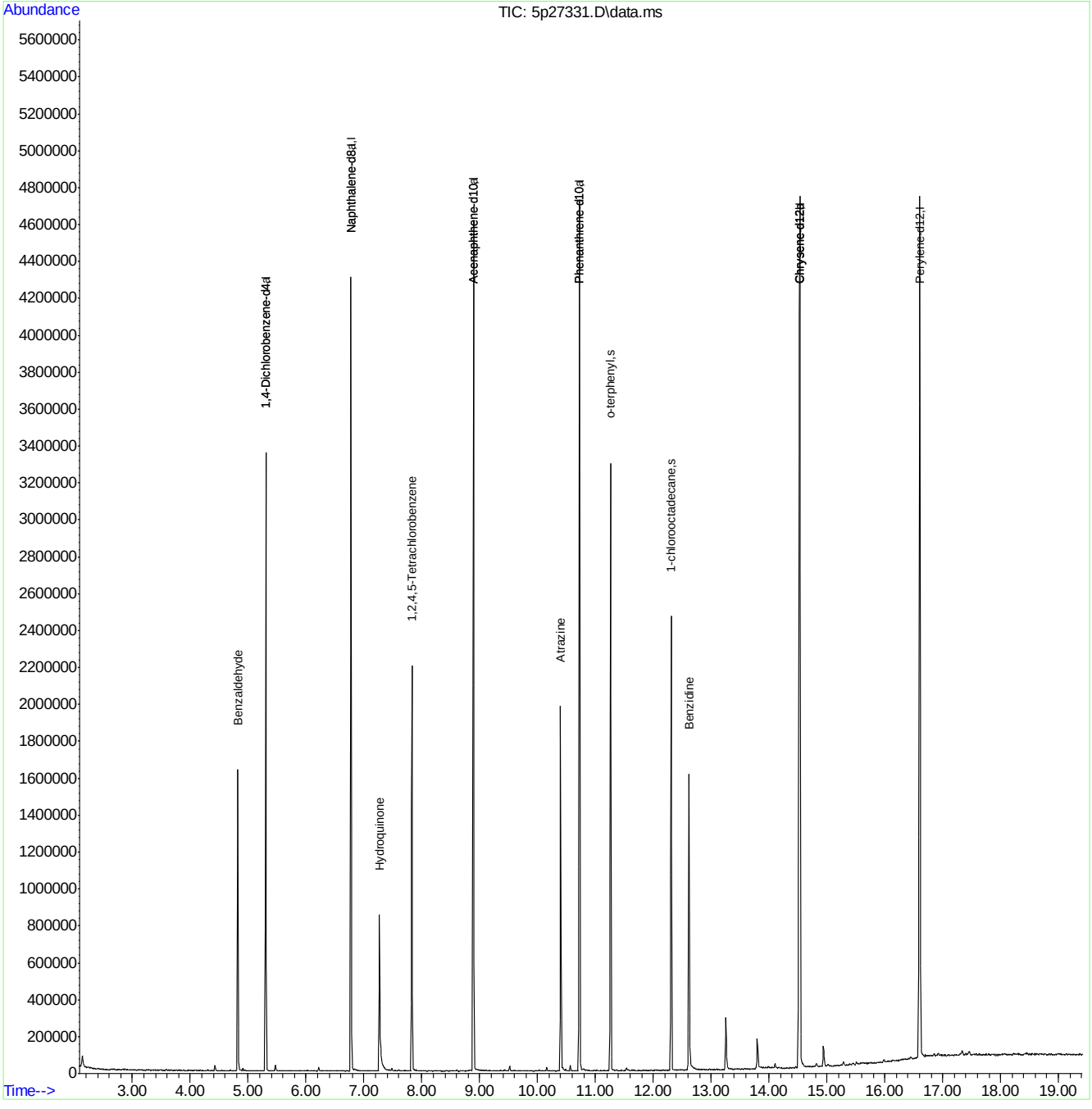
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27331.D
Acq On : 11 Apr 2016 4:17 pm
Operator : ariellec
Sample : ic1383-25
Misc : op92466,e5p1383
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 16:43:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 15:53:22 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27332.D
Acq On : 11 Apr 2016 4:44 pm
Operator : ariellec
Sample : ic1383-10
Misc : op92466,e5p1383
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 17:15:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 16:45:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	548557	40.00	ppm	0.00
24) Naphthalene-d8	6.772	136	2170910	40.00	ppm	0.00
47) Acenaphthene-d10	8.893	164	1140162	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	2112847	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2205108	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2268246	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	548557	40.00	ppm	0.00
104) Acenaphthene-d10a	8.893	164	1140162	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2205108	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	2112847	40.00	ppm	0.00
112) Naphthalene-d8a	6.772	136	2170910	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2205108	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	12.307	57	127507	10.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.70%	
110) o-terphenyl	11.265	230	290915	10.76	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.52%	
Target Compounds						Qvalue
103) Benzaldehyde	4.823	105	138414	11.70	ppm	98
105) 1,2,4,5-Tetrachloroben...	7.830	216	156615	10.68	ppm	98
107) Benzidine	12.612	184	354917	14.41	ppm	97
111) Atrazine	10.400	215	53942	10.02	ppm	95
113) Hydroquinone	7.275	110	139012	8.46	ppm	96

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

7.6.58

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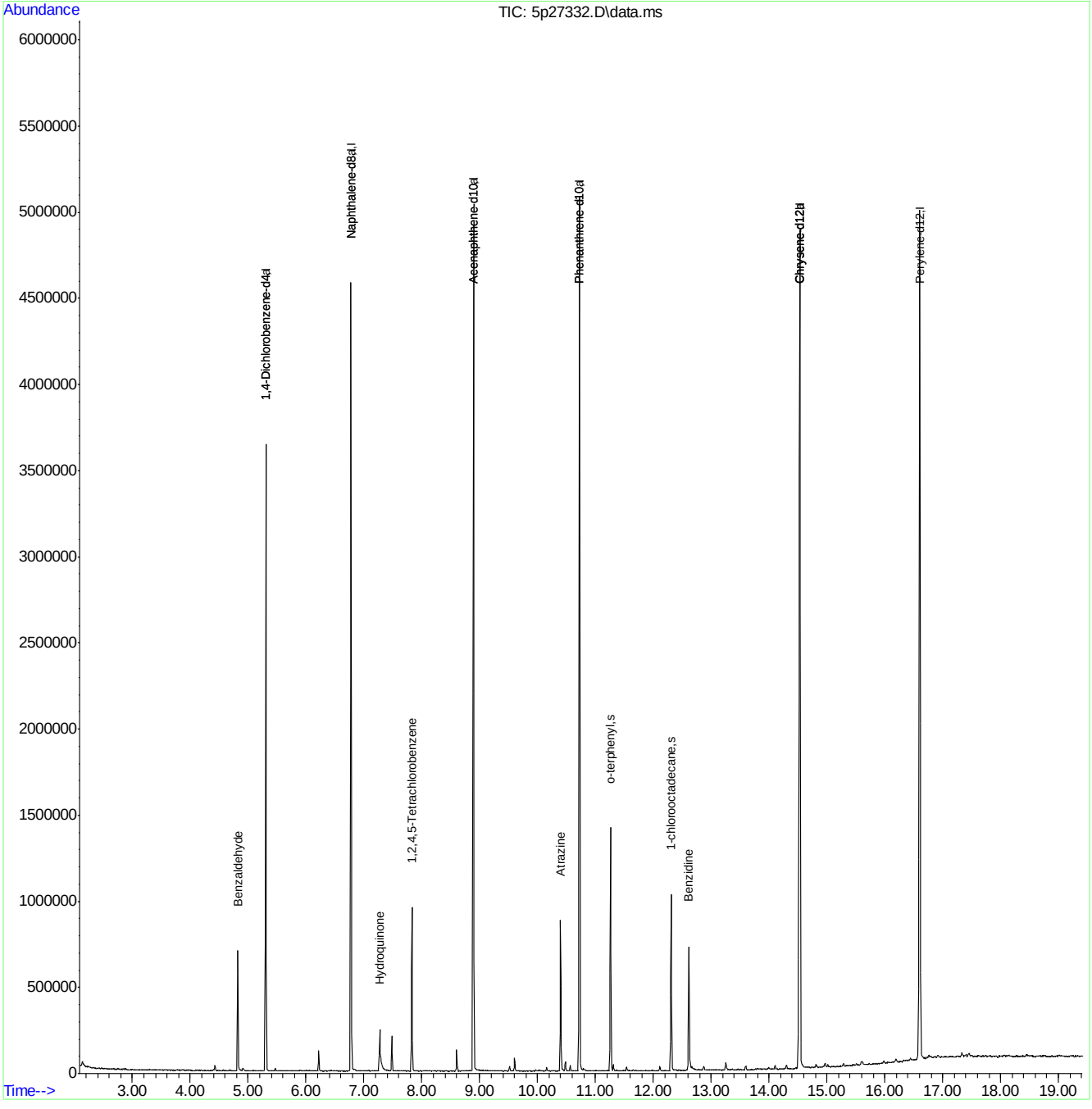
SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27332.D
Acq On : 11 Apr 2016 4:44 pm
Operator : ariellec
Sample : ic1383-10
Misc : op92466,e5p1383
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 17:15:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 16:45:28 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27333.D
Acq On : 11 Apr 2016 5:11 pm
Operator : ariellec
Sample : ic1383-5
Misc : op92466,e5p1383
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 17:44:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 17:20:40 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.304	152	538837	40.00	ppm	0.00
24) Naphthalene-d8	6.773	136	2115132	40.00	ppm	0.00
47) Acenaphthene-d10	8.894	164	1117229	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	2051747	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2175435	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2204341	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.304	152	538837	40.00	ppm	0.00
104) Acenaphthene-d10a	8.894	164	1117229	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2175435	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	2051747	40.00	ppm	0.00
112) Naphthalene-d8a	6.773	136	2115132	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2175435	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	12.307	57	66047	5.40	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.80%	
110) o-terphenyl	11.265	230	153831	5.77	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.54%	
Target Compounds						Qvalue
103) Benzaldehyde	4.823	105	74814	6.23	ppm	98
105) 1,2,4,5-Tetrachloroben...	7.830	216	83740	5.75	ppm	100
107) Benzidine	12.612	184	176697	6.68	ppm	98
111) Atrazine	10.400	215	27618	5.28	ppm	95
113) Hydroquinone	7.280	110	61878	3.99	ppm	99

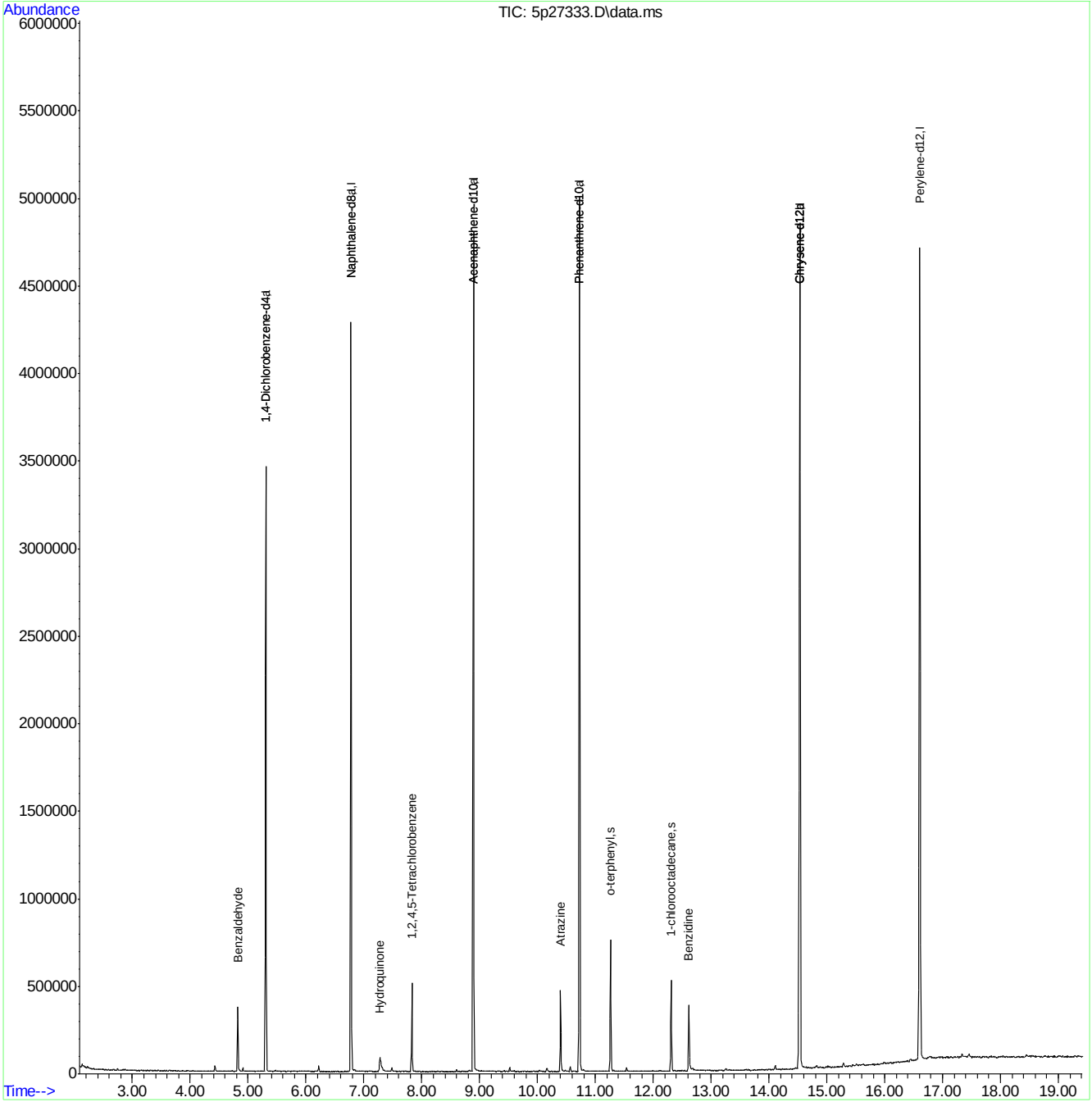
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27333.D
Acq On : 11 Apr 2016 5:11 pm
Operator : ariellec
Sample : ic1383-5
Misc : op92466,e5p1383
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 17:44:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 17:20:40 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27334.D
Acq On : 11 Apr 2016 5:38 pm
Operator : ariellec
Sample : ic1383-2
Misc : op92466,e5p1383
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 18:45:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 17:46:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	578363	40.00	ppm	0.00
24) Naphthalene-d8	6.772	136	2243926	40.00	ppm	0.00
47) Acenaphthene-d10	8.888	164	1166321	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	2145928	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2288233	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2329979	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	578363	40.00	ppm	0.00
104) Acenaphthene-d10a	8.888	164	1166321	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2288233	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	2145928	40.00	ppm	0.00
112) Naphthalene-d8a	6.772	136	2243926	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2288233	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	12.307	57	26674	2.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.10%	
110) o-terphenyl	11.265	230	64224	2.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.50%	
Target Compounds						Qvalue
103) Benzaldehyde	4.823	105	31158	2.32	ppm	95
105) 1,2,4,5-Tetrachloroben...	7.830	216	35470	2.28	ppm	96
107) Benzidine	12.612	184	60987	2.08	ppm	97
111) Atrazine	10.400	215	11870	2.15	ppm	91
113) Hydroquinone	7.291	110	17797	1.12	ppm	96

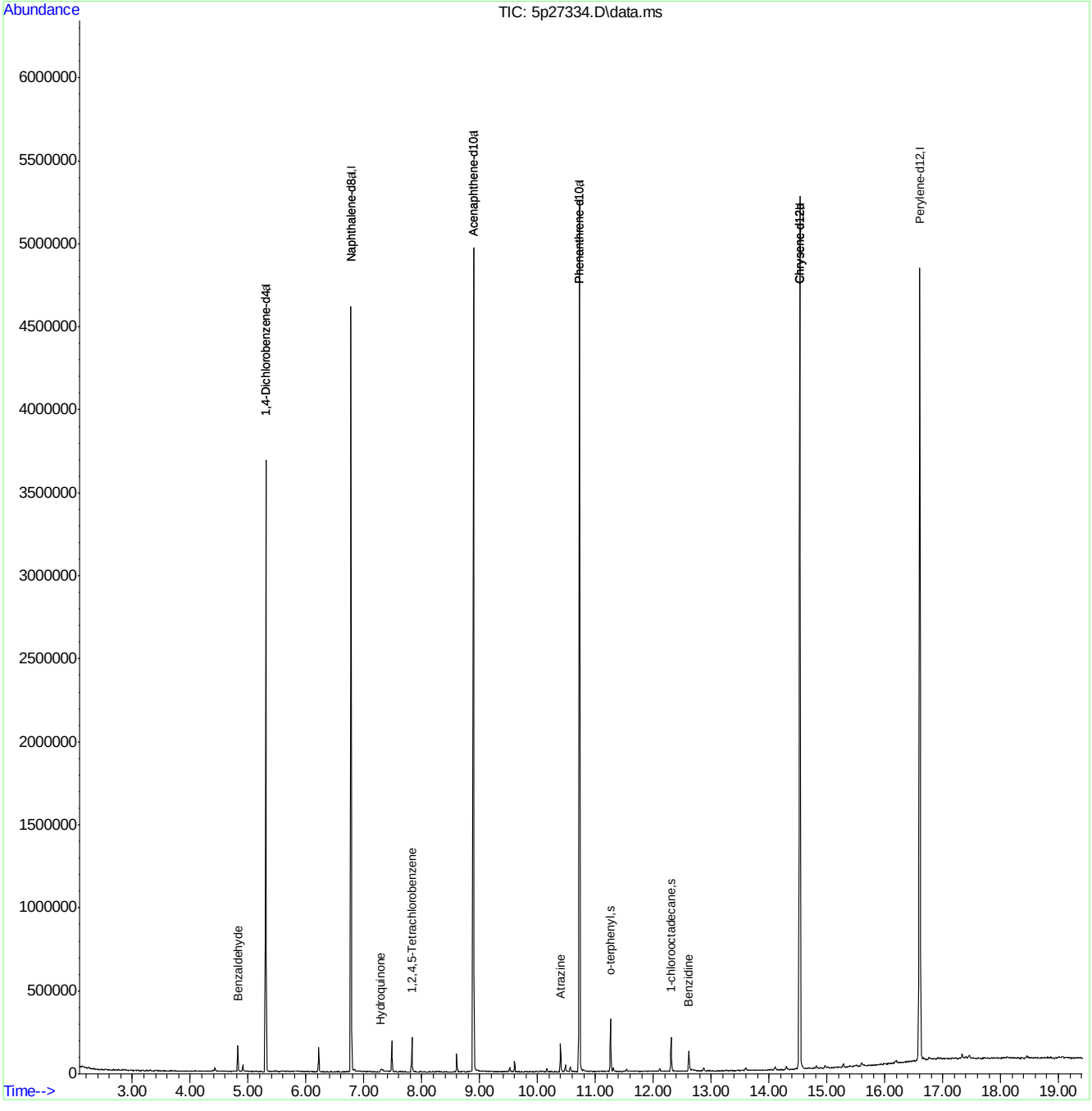
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27334.D
Acq On : 11 Apr 2016 5:38 pm
Operator : ariellec
Sample : ic1383-2
Misc : op92466,e5p1383
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 18:45:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 17:46:06 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27335.D
Acq On : 11 Apr 2016 6:05 pm
Operator : ariellec
Sample : ic1383-1
Misc : op92466,e5p1383
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 18:46:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 17:46:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	535631	40.00	ppm	0.00
24) Naphthalene-d8	6.772	136	2118721	40.00	ppm	0.00
47) Acenaphthene-d10	8.893	164	1106413	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	2038573	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	2154459	40.00	ppm	0.00
92) Perylene-d12	16.602	264	2207496	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	535631	40.00	ppm	0.00
104) Acenaphthene-d10a	8.893	164	1106413	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	2154459	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	2038573	40.00	ppm	0.00
112) Naphthalene-d8a	6.772	136	2118721	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	2154459	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	12.307	57	12035	0.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.96%	
110) o-terphenyl	11.265	230	30365	1.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.24%	
Target Compounds						Qvalue
103) Benzaldehyde	4.823	105	15044	1.21	ppm	94
105) 1,2,4,5-Tetrachloroben...	7.830	216	16787	1.14	ppm	89
107) Benzidine	12.612	184	23946	0.87	ppm	96
111) Atrazine	10.400	215	4888	0.93	ppm #	77
113) Hydroquinone	7.323	110	7340	0.49	ppm	79

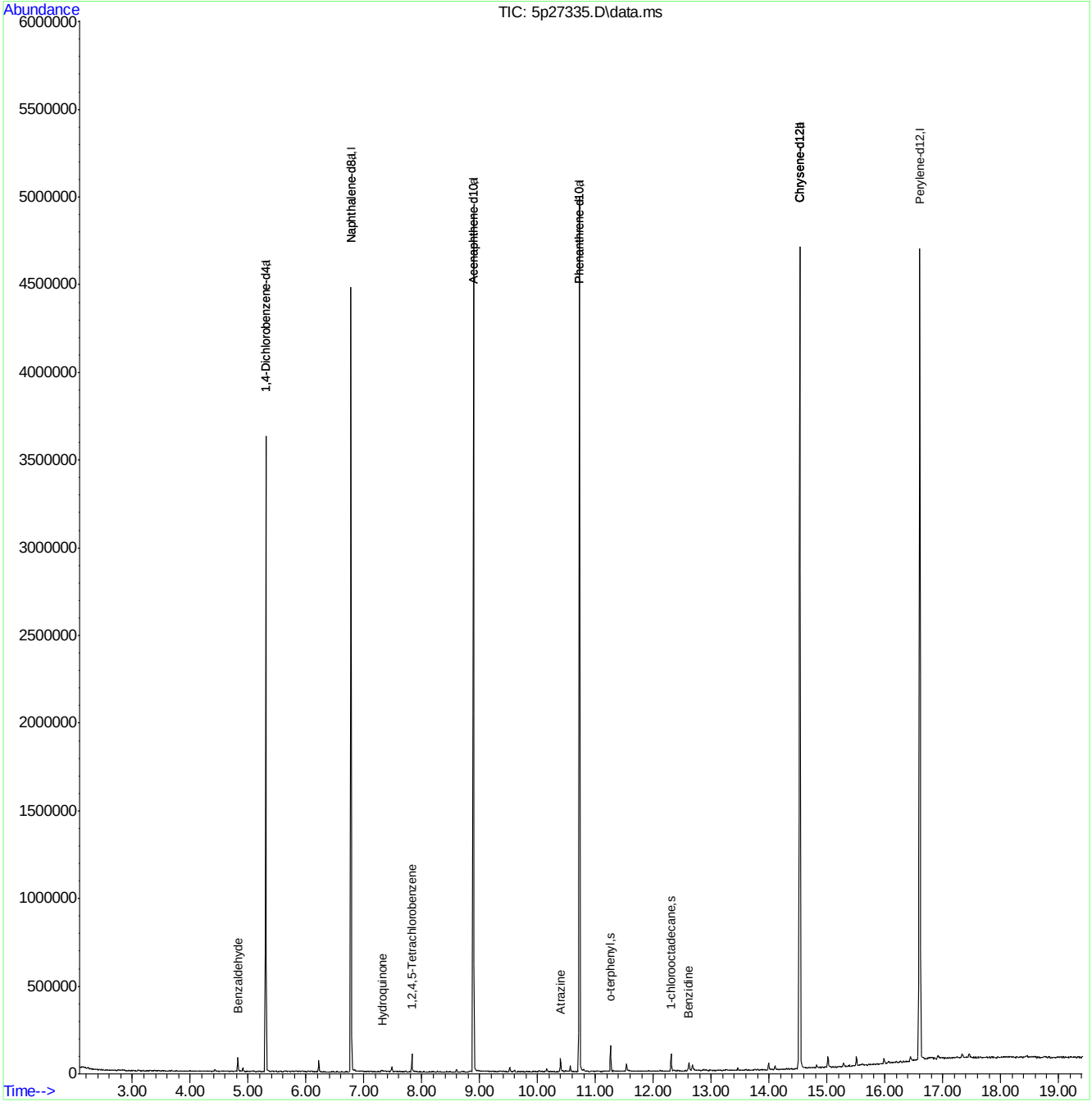
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27335.D
Acq On : 11 Apr 2016 6:05 pm
Operator : ariellec
Sample : ic1383-1
Misc : op92466,e5p1383
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 18:46:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 17:46:06 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27336.D
Acq On : 11 Apr 2016 6:32 pm
Operator : ariellec
Sample : icv1383-50
Misc : op92466,e5p1383
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 11 18:57:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	581246	40.00	ppm	0.00
24) Naphthalene-d8	6.772	136	2200921	40.00	ppm	0.00
47) Acenaphthene-d10	8.893	164	1268027	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	2050544	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	1929053	40.00	ppm	0.00
92) Perylene-d12	16.602	264	1858932	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	581246	40.00	ppm	0.00
104) Acenaphthene-d10a	8.893	164	1268027	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	1929053	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	2050544	40.00	ppm	0.00
112) Naphthalene-d8a	6.772	136	2200921	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	1929053	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.898	112	801736	45.01	ppm	0.00
Spiked Amount 50.000			Recovery = 90.02%			
8) Phenol-d5	4.887	99	869169	42.95	ppm	0.00
Spiked Amount 50.000			Recovery = 85.90%			
25) Nitrobenzene-d5	5.934	82	759175	45.44	ppm	0.00
Spiked Amount 50.000			Recovery = 90.88%			
51) 2-Fluorobiphenyl	8.087	172	1832071	45.38	ppm	0.00
Spiked Amount 50.000			Recovery = 90.76%			
73) 2,4,6-Tribromophenol	9.850	330	204461	41.30	ppm	0.00
Spiked Amount 50.000			Recovery = 82.60%			
85) Terphenyl-d14	12.985	244	1781393	45.95	ppm	0.00
Spiked Amount 50.000			Recovery = 91.90%			
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds Qvalue

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

7.6.62

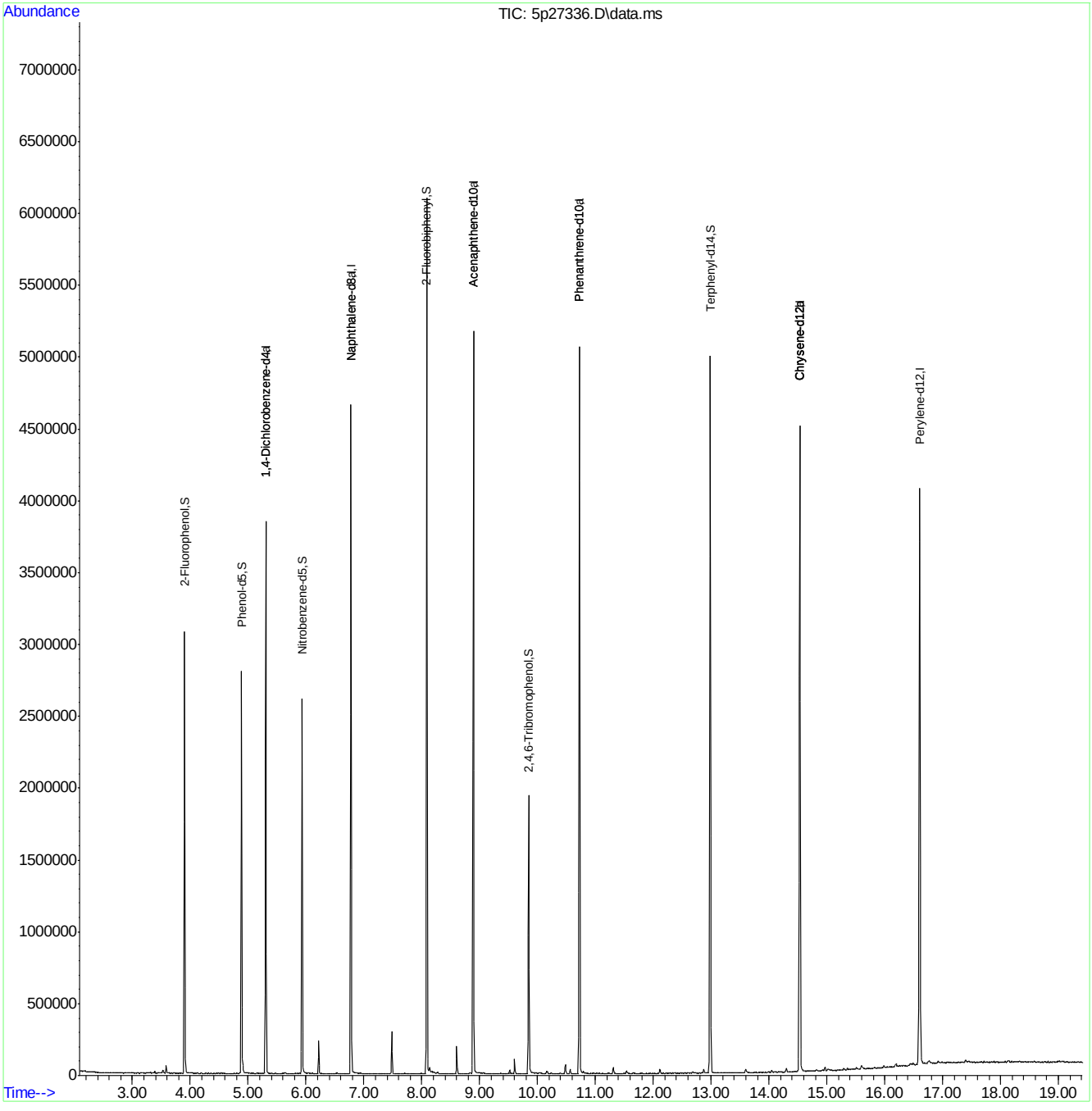
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27336.D
Acq On : 11 Apr 2016 6:32 pm
Operator : ariellec
Sample : icv1383-50
Misc : op92466,e5p1383
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 11 18:57:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integrations
APPROVED
(compounds with "m" flag)
Nina Pandya
04/12/16 12:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27337.D
Acq On : 11 Apr 2016 6:59 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 19:27:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.304	152	563414	40.00	ppm	0.00
24) Naphthalene-d8	6.778	136	2140539	40.00	ppm	0.00
47) Acenaphthene-d10	8.894	164	1212523	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1960094	40.00	ppm	0.00
83) Chrysene-d12	14.540	240	1876497	40.00	ppm	0.00
92) Perylene-d12	16.602	264	1900486	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.304	152	563414	40.00	ppm	0.00
104) Acenaphthene-d10a	8.894	164	1212523	40.00	ppm	0.00
106) Chrysene-d12a	14.540	240	1876497	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1960094	40.00	ppm	0.00
112) Naphthalene-d8a	6.778	136	2140539	40.00	ppm	0.00
114) Chrysene-d12b	14.540	240	1876497	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.611	74	351723	43.15	ppm	87
11) bis(2-Chloroethyl)ether	5.015	93	682623	45.35	ppm	92
14) 1,3-Dichlorobenzene	5.239	146	960605	44.33	ppm	96
15) 1,4-Dichlorobenzene	5.325	146	971819	44.47	ppm	98
17) 1,2-Dichlorobenzene	5.491	146	943962	45.45	ppm	94
20) 2,2'-oxybis(1-Chloropr...	5.624	45	646485m	37.38	ppm	
22) n-Nitroso-di-n-propyla...	5.768	70	463859	43.04	ppm	94
23) Hexachloroethane	5.881	201	328791	46.69	ppm	82
26) Nitrobenzene	5.955	77	699756	43.69	ppm	91
28) Isophorone	6.238	82	1330135	47.53	ppm	96
32) bis(2-Chloroethoxy)met...	6.511	93	777984	42.54	ppm	97
36) 1,2,4-Trichlorobenzene	6.709	180	765005	44.59	ppm	98
38) Naphthalene	6.799	128	2474014	45.62	ppm	99
42) Hexachlorobutadiene	6.954	225	427824	48.44	ppm	95
48) Hexachlorocyclopentadiene	7.825	237	357143	47.00	ppm	89
52) 2-Chloronaphthalene	8.220	162	1580349	46.25	ppm	98
55) Dimethylphthalate	8.594	163	1777655	43.89	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27337.D
Acq On : 11 Apr 2016 6:59 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 19:27:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
56)	Acenaphthylene	8.717	152	2426119	44.69 ppm	100
57)	2,6-Dinitrotoluene	8.658	165	374738	44.95 ppm	87
59)	Acenaphthene	8.931	153	1598995	46.06 ppm	97
63)	2,4-Dinitrotoluene	9.139	165	498095	44.71 ppm	73
65)	Diethylphthalate	9.454	149	1822915	44.06 ppm	99
66)	Fluorene	9.561	166	1753085	45.02 ppm	94
67)	4-Chlorophenyl-phenyle...	9.577	204	782619	42.66 ppm	94
71)	n-Nitrosodiphenylamine	9.722	169	1285602	45.50 ppm	92
72)	1,2-Diphenylhydrazine	9.764	77	1354741	46.23 ppm	96
74)	4-Bromophenyl-phenylether	10.176	248	495864	45.67 ppm	91
75)	Hexachlorobenzene	10.229	284	500777	45.43 ppm	98
77)	Phenanthrene	10.758	178	2485527	45.15 ppm	98
78)	Anthracene	10.827	178	2493134	45.06 ppm	98
80)	Di-n-butylphthalate	11.575	149	2996620	45.40 ppm	100
81)	Fluoranthene	12.387	202	2597624	45.66 ppm	98
84)	Pyrene	12.713	202	2766284	47.89 ppm	98
86)	Butylbenzylphthalate	13.766	149	1314223	46.38 ppm	95
88)	Benzo[a]anthracene	14.524	228	2358259	45.44 ppm	97
90)	Chrysene	14.578	228	2398258	45.26 ppm	99
91)	bis(2-Ethylhexyl)phtha...	14.690	149	1901200	47.32 ppm	100
93)	Di-n-octylphthalate	15.668	149	3157107	47.89 ppm	98
94)	Benzo[b]fluoranthene	16.090	252	2471831	44.58 ppm	97
95)	Benzo[k]fluoranthene	16.127	252	2517645	47.51 ppm	94
96)	Benzo[a]pyrene	16.522	252	2378975	47.86 ppm	98
97)	Indeno[1,2,3-cd]pyrene	18.248	276	2217892	45.49 ppm	97
99)	Dibenz[a,h]anthracene	18.301	278	2339371	45.91 ppm	92
101)	Benzo[g,h,i]perylene	18.723	276	2381952	45.98 ppm	95

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

7.6.63

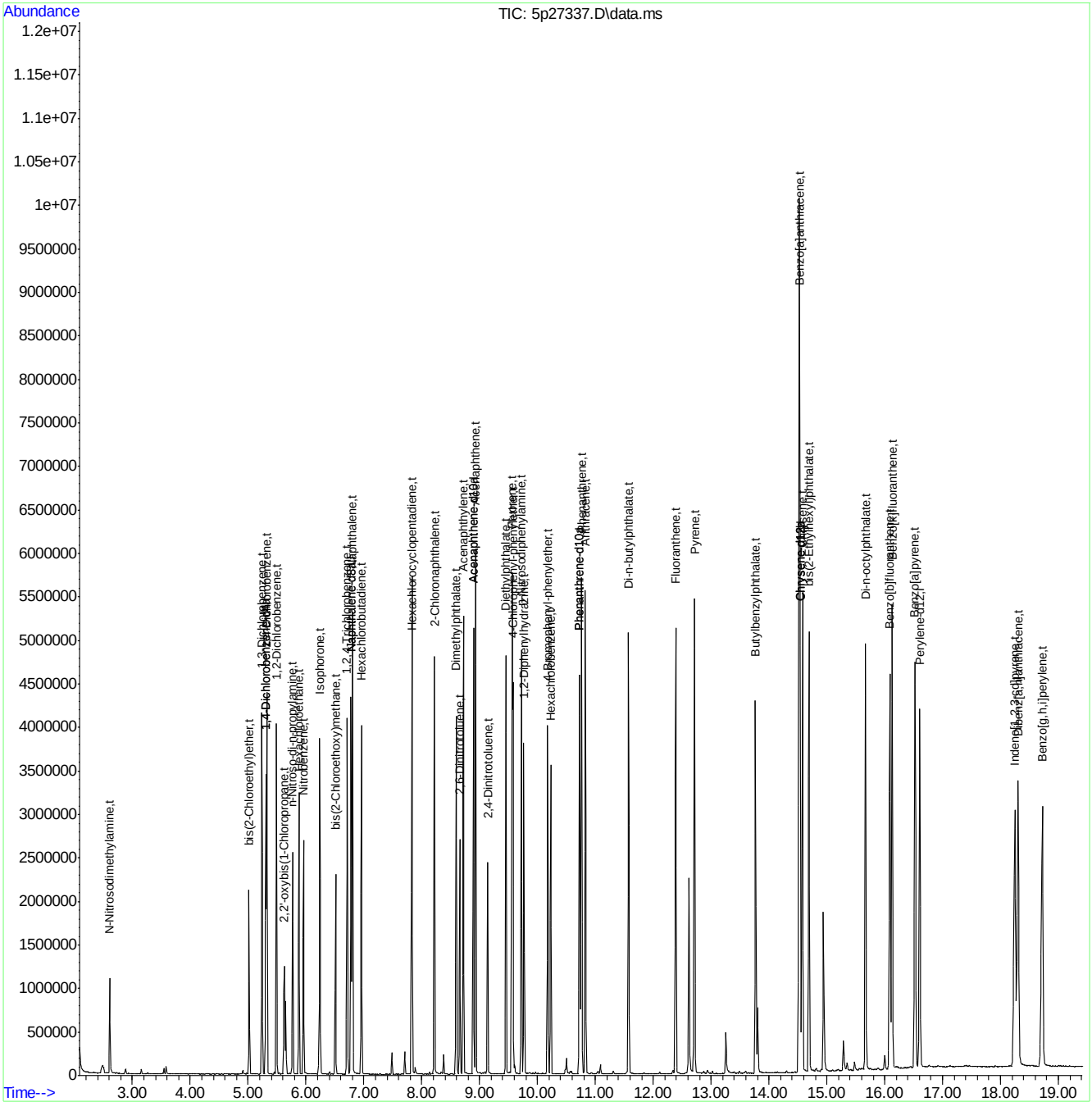
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27337.D
Acq On : 11 Apr 2016 6:59 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 19:27:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

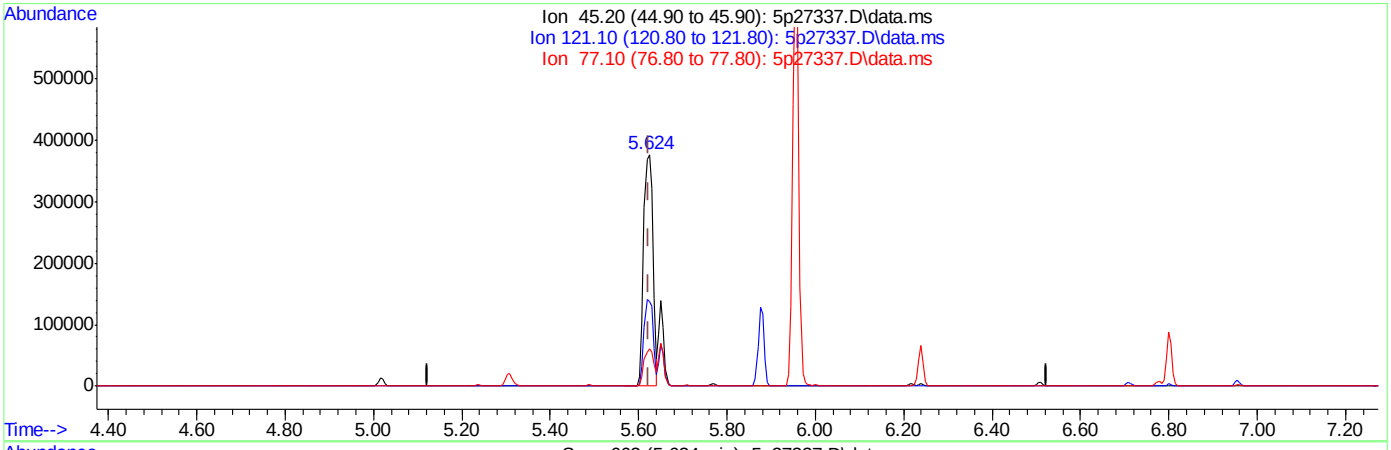
Sample Number:	E5P1383-ICV1382	**Method:**	SW846 8270D
Lab FileID:	5P27337.D	**Analyst approved:**	04/11/16 19:34 Sara Davis
Injection Time:	04/11/16 18:59	**Supervisor approved:**	04/12/16 12:30 Nina Pandya

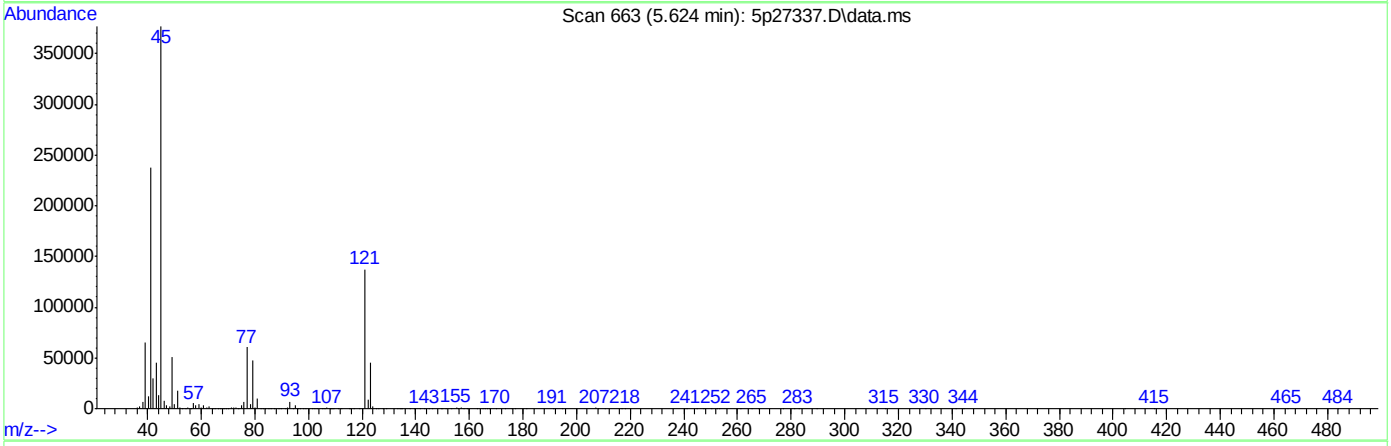
Parameter	CAS	Sig#	R.T. (min.)	Reason
bis(2-Chloroisopropyl)ether	108-60-1		5.62	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27337.D
Acq On : 11 Apr 2016 6:59 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 19:20:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration





TIC: 5p27337.D\data.ms

(20) 2,2'-oxybis(1-Chloropropane (t)

5.624min (+0.000) 30.86ppm

response 533694

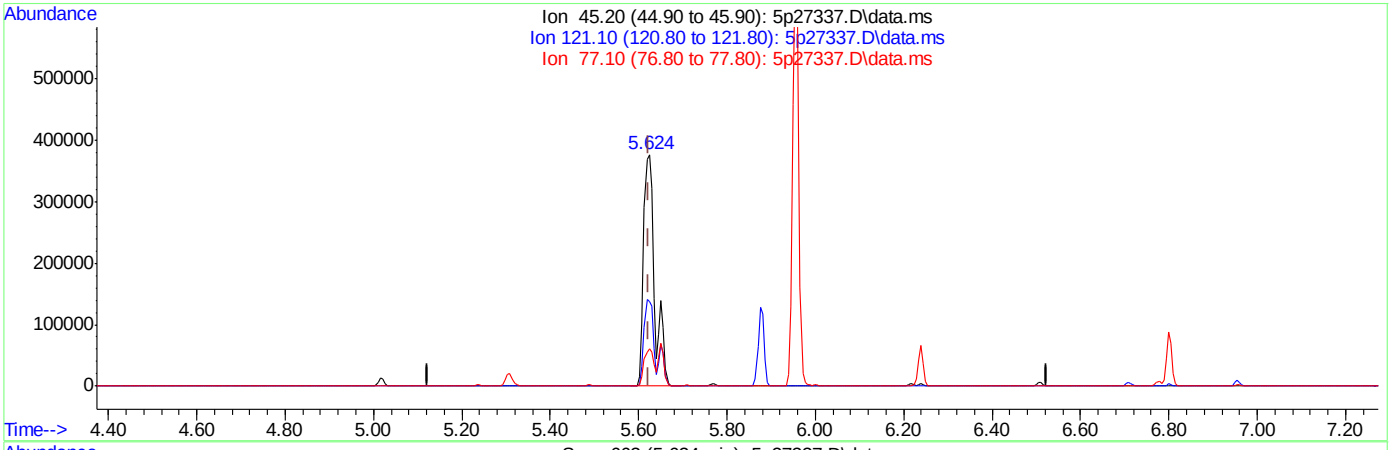
Ion	Exp%	Act%
45.20	100	100
121.10	35.00	35.93
77.10	2.00	13.90
0.00	0.00	0.00

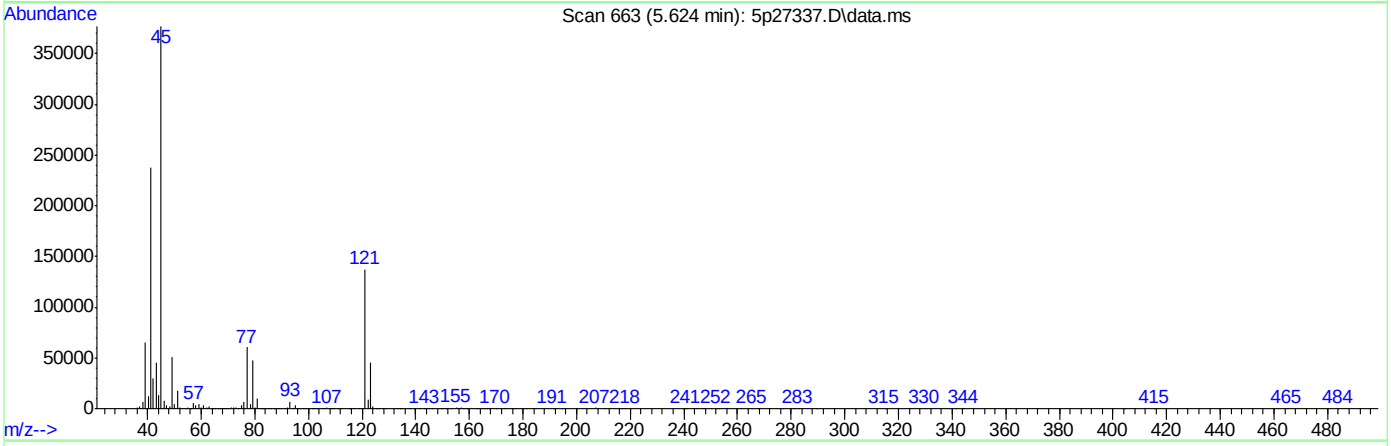
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27337.D
Acq On : 11 Apr 2016 6:59 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 19:27:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration





TIC: 5p27337.D\data.ms

(20) 2,2'-oxybis(1-Chloropropane (t)

5.624min (+0.000) 37.38ppm m

response 646485

Ion	Exp%	Act%
45.20	100	100
121.10	35.00	36.45
77.10	2.00	16.04
0.00	0.00	0.00

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27337a.D
Acq On : 11 Apr 2016 6:59 pm
Operator : ariellec
Sample : icv1383-50
Misc : op92466,e5p1383
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 19:28:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.304	152	563414	40.00	ppm	0.00
24) Naphthalene-d8	6.778	136	2140539	40.00	ppm	0.00
47) Acenaphthene-d10	8.894	164	1212523	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1960094	40.00	ppm	0.00
83) Chrysene-d12	14.540	240	1876497	40.00	ppm	0.00
92) Perylene-d12	16.602	264	1900486	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.304	152	563414	40.00	ppm	0.00
104) Acenaphthene-d10a	8.894	164	1212523	40.00	ppm	0.00
106) Chrysene-d12a	14.540	240	1876497	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1960094	40.00	ppm	0.00
112) Naphthalene-d8a	6.778	136	2140539	40.00	ppm	0.00
114) Chrysene-d12b	14.540	240	1876497	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
105) 1,2,4,5-Tetrachloroben...	7.836	216	766949	45.78	ppm	98

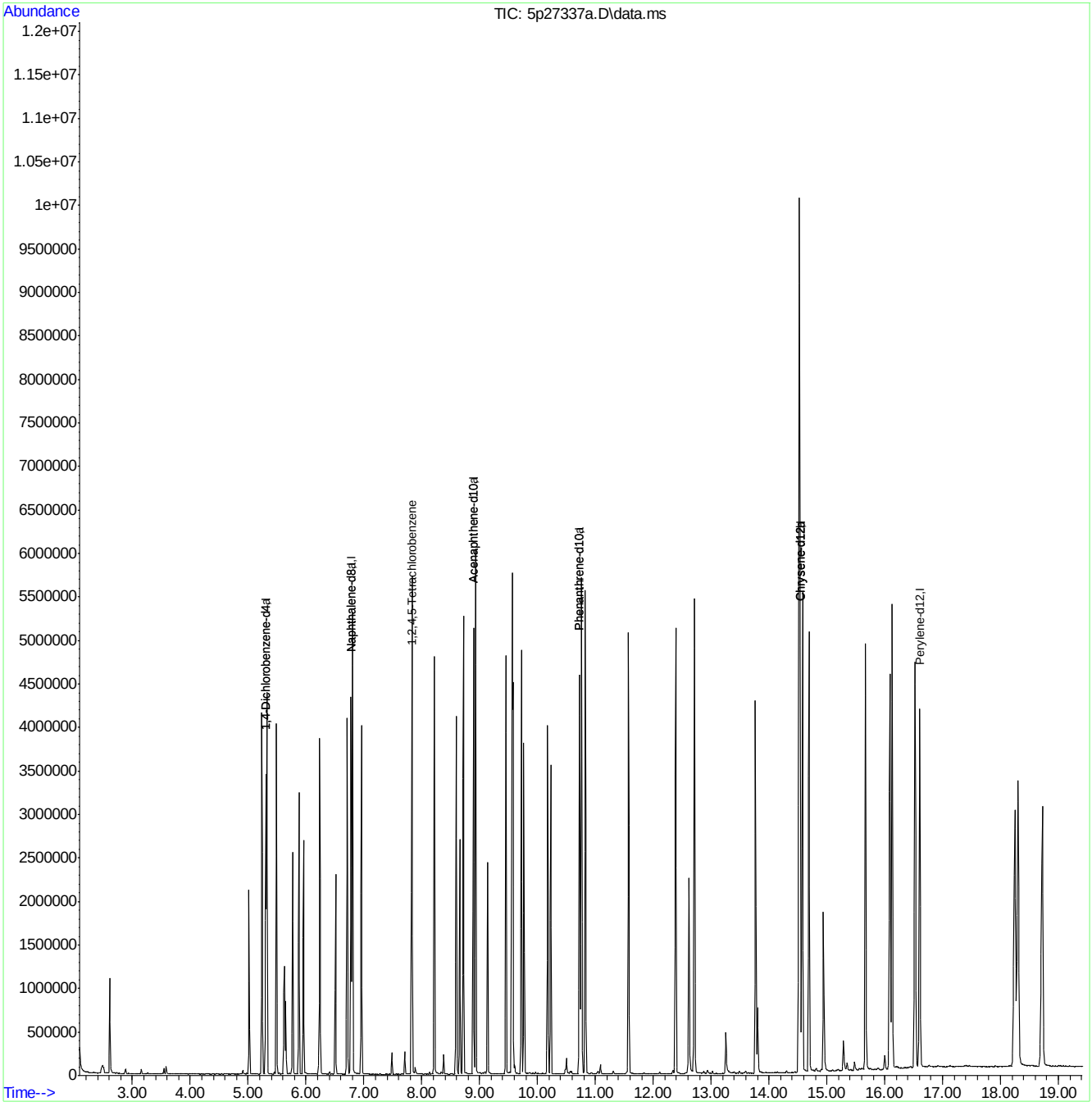
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27337a.D
Acq On : 11 Apr 2016 6:59 pm
Operator : ariellec
Sample : icv1383-50
Misc : op92466,e5p1383
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 19:28:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration



M5P1382.M Mon Apr 11 19:28:15 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27338.D
Acq On : 11 Apr 2016 7:26 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 20:08:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	543499	40.00	ppm	0.00
24) Naphthalene-d8	6.773	136	2035522	40.00	ppm	0.00
47) Acenaphthene-d10	8.888	164	1169425	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1836140	40.00	ppm	0.00
83) Chrysene-d12	14.530	240	1761256	40.00	ppm	0.00
92) Perylene-d12	16.602	264	1682476	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	543499	40.00	ppm	0.00
104) Acenaphthene-d10a	8.888	164	1169425	40.00	ppm	0.00
106) Chrysene-d12a	14.530	240	1761256	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1836140	40.00	ppm	0.00
112) Naphthalene-d8a	6.773	136	2035522	40.00	ppm	0.00
114) Chrysene-d12b	14.530	240	1761256	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.349	88	291390	45.72	ppm	94
6) Indene	5.592	116	1505021	50.61	ppm	94
7) Cumene	4.443	105	1940519	48.39	ppm	97
13) Decane	5.133	43	599053	48.05	ppm	97
18) Acetophenone	5.763	105	1146627	49.10	ppm	86
27) Quinoline	7.195	129	1723291	48.27	ppm	98
40) 2,3-Dichloroaniline	7.975	161	814473	45.07	ppm	96
41) Caprolactam	7.269	55	276690	47.72	ppm	94
45) 1-Methylnaphthalene	7.750	141	1500685	48.58	ppm	98
46) Dimethylnaphthalene	8.391	156	1597867	49.33	ppm	96
53) Biphenyl	8.204	154	2120841	49.69	ppm	96
82) Octadecane	10.656	57	858564	50.48	ppm	93
100) 7,12-Dimethylbenz(a)an...	16.089	256	1138260	60.25	ppm	99

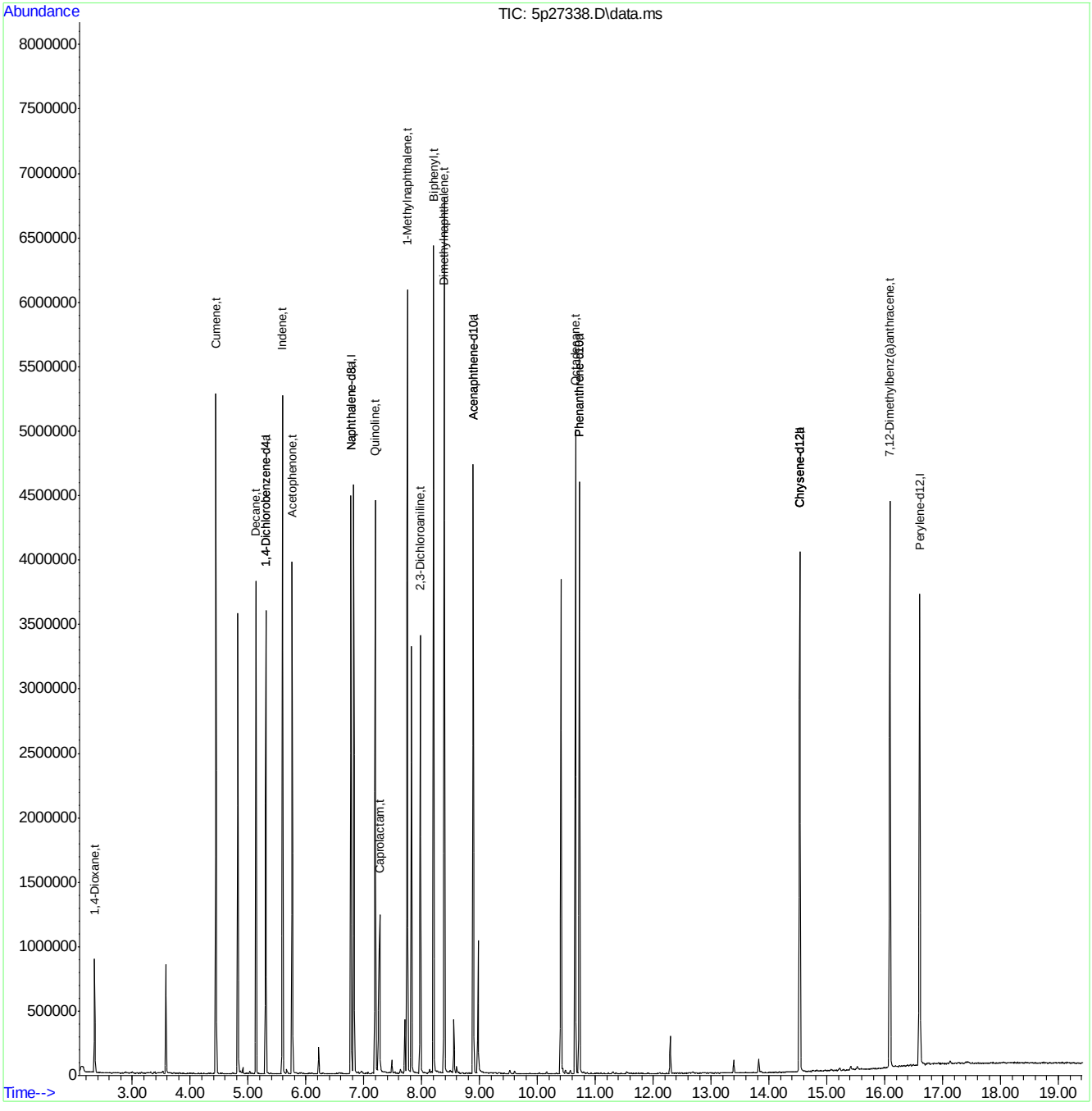
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27338.D
Acq On : 11 Apr 2016 7:26 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 20:08:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27338a.D
Acq On : 11 Apr 2016 7:26 pm
Operator : ariellec
Sample : icv1383-50
Misc : op92466,e5p1383
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 20:07:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	543499	40.00	ppm	0.00
24) Naphthalene-d8	6.773	136	2035522	40.00	ppm	0.00
47) Acenaphthene-d10	8.888	164	1169425	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1836140	40.00	ppm	0.00
83) Chrysene-d12	14.530	240	1761256	40.00	ppm	0.00
92) Perylene-d12	16.602	264	1682476	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	543499	40.00	ppm	0.00
104) Acenaphthene-d10a	8.888	164	1169425	40.00	ppm	0.00
106) Chrysene-d12a	14.530	240	1761256	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1836140	40.00	ppm	0.00
112) Naphthalene-d8a	6.773	136	2035522	40.00	ppm	0.00
114) Chrysene-d12b	14.530	240	1761256	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.823	105	669822	50.75	ppm	98
111) Atrazine	10.405	215	252481	53.40	ppm	99

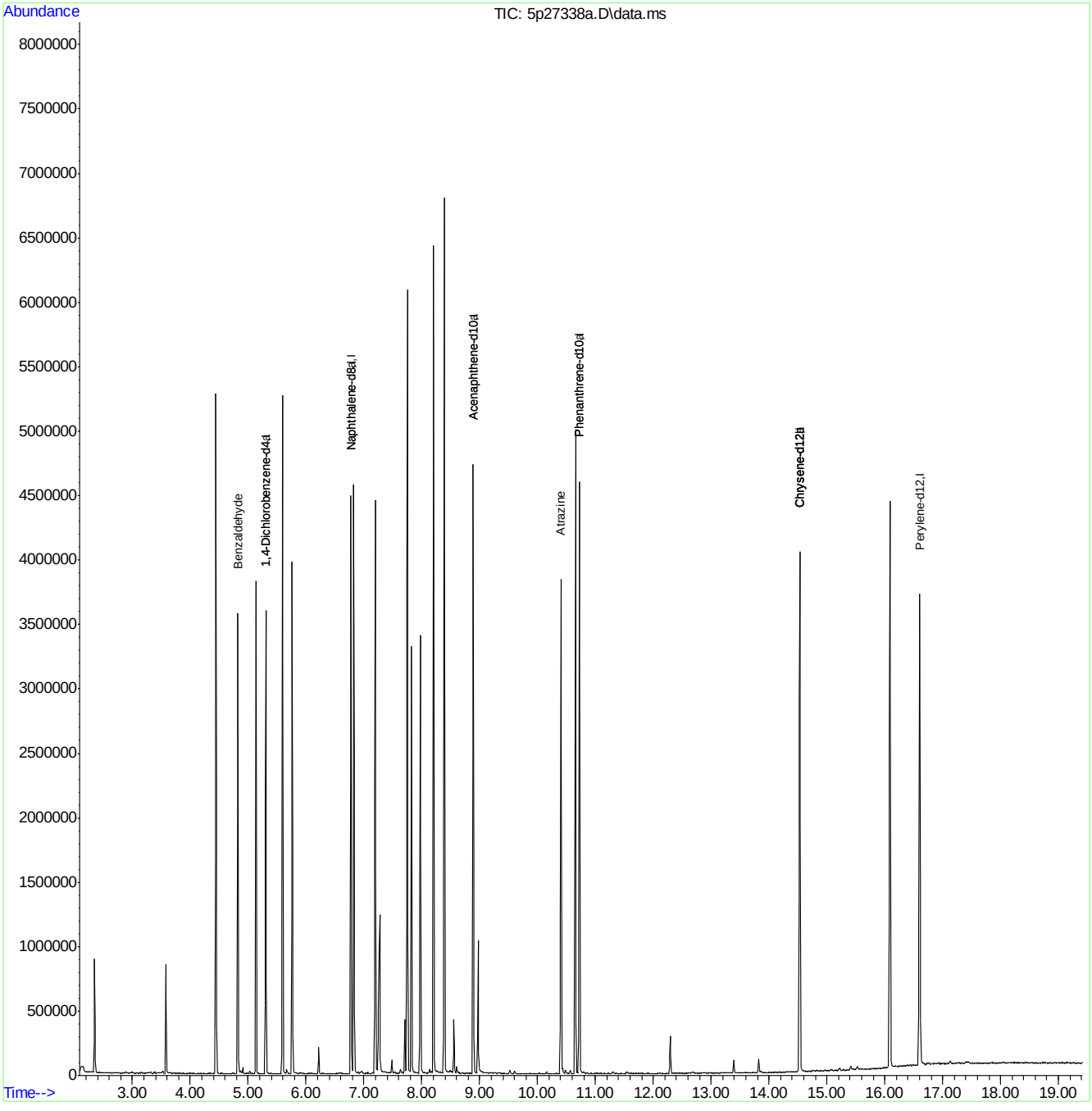
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27338a.D
Acq On : 11 Apr 2016 7:26 pm
Operator : ariellec
Sample : icv1383-50
Misc : op92466,e5p1383
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 20:07:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration



M5P1382.M Mon Apr 11 20:07:57 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27339.D
Acq On : 11 Apr 2016 7:52 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 11 20:35:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.303	152	554439	40.00	ppm	0.00
24) Naphthalene-d8	6.772	136	2056495	40.00	ppm	0.00
47) Acenaphthene-d10	8.888	164	1196854	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1932253	40.00	ppm	0.00
83) Chrysene-d12	14.529	240	1830853	40.00	ppm	0.00
92) Perylene-d12	16.602	264	1742882	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	554439	40.00	ppm	0.00
104) Acenaphthene-d10a	8.888	164	1196854	40.00	ppm	0.00
106) Chrysene-d12a	14.529	240	1830853	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1932253	40.00	ppm	0.00
112) Naphthalene-d8a	6.772	136	2056495	40.00	ppm	0.00
114) Chrysene-d12b	14.529	240	1830853	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
9) Phenol	4.903	94	931361	46.66	ppm	86
12) 2-Chlorophenol	5.063	128	924156	48.09	ppm	98
19) 2-Methylphenol	5.586	108	751279	51.35	ppm	85
21) 3&4-Methylphenol	5.763	108	783897	50.37	ppm	96
29) 2-Nitrophenol	6.329	139	491878	50.99	ppm	94
30) 2,4-Dimethylphenol	6.388	107	893651	59.03	ppm	87
31) Benzoic acid	6.521	105	601300	48.61	ppm	94
33) 2,4-Dichlorophenol	6.607	162	744843	50.85	ppm	96
34) 2,6-Dichlorophenol	6.874	162	743345	51.60	ppm	89
43) 4-Chloro-3-methylphenol	7.456	107	783867	50.08	ppm	89
49) 2,4,6-Trichlorophenol	7.974	196	533499	52.35	ppm	90
50) 2,4,5-Trichlorophenol	8.012	196	541938	49.26	ppm	96
60) 2,4-Dinitrophenol	8.973	184	182929	39.04	ppm	94
61) 4-Nitrophenol	9.054	109	266783	54.91	ppm #	51
64) 2,3,4,6-Tetrachlorophenol	9.289	232	436047	50.25	ppm	95
70) 4,6-Dinitro-2-methylph...	9.620	198	307086	49.71	ppm	85
76) Pentachlorophenol	10.480	266	361078	54.47	ppm	94

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27339.D
Acq On : 11 Apr 2016 7:52 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 11 20:35:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

7.6.67

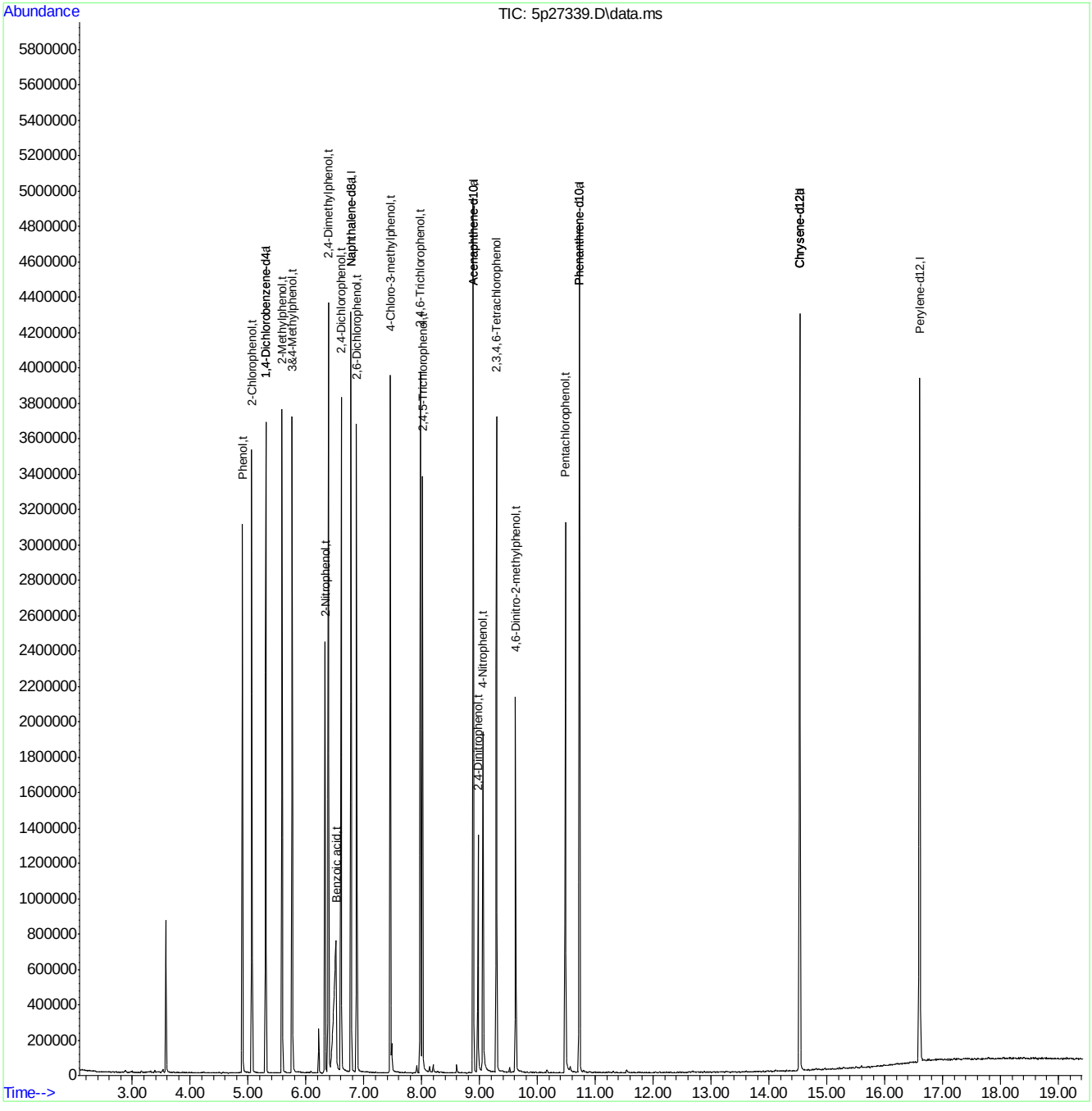
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27339.D
Acq On : 11 Apr 2016 7:52 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 11 20:35:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration



M5P1382.M Mon Apr 11 20:35:48 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27340.D
Acq On : 11 Apr 2016 8:20 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 11 21:12:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.309	152	505708	40.00	ppm	0.00
24) Naphthalene-d8	6.778	136	1972027	40.00	ppm	0.00
47) Acenaphthene-d10	8.893	164	1149268	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1889280	40.00	ppm	0.00
83) Chrysene-d12	14.535	240	1771721	40.00	ppm	0.00
92) Perylene-d12	16.602	264	1457702	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.309	152	505708	40.00	ppm	0.00
104) Acenaphthene-d10a	8.893	164	1149268	40.00	ppm	0.00
106) Chrysene-d12a	14.535	240	1771721	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1889280	40.00	ppm	0.00
112) Naphthalene-d8a	6.778	136	1972027	40.00	ppm	0.00
114) Chrysene-d12b	14.535	240	1771721	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
3) Pyridine	2.728	79	642158	49.19	ppm	91
10) Aniline	4.946	93	1104518	55.98	ppm	87
16) Benzyl alcohol	5.469	108	512247	51.04	ppm	85
39) 4-Chloroaniline	6.874	127	1054671	50.41	ppm	97
44) 2-Methylnaphthalene	7.633	141	1398604	48.53	ppm	98
54) 2-Nitroaniline	8.349	65	403955	49.62	ppm	94
58) 3-Nitroaniline	8.851	138	429481	46.73	ppm	96
62) Dibenzofuran	9.145	168	2259304	50.43	ppm	99
68) 4-Nitroaniline	9.588	138	434650	46.79	ppm	92
79) Carbazole	11.046	167	2420013	48.20	ppm	99

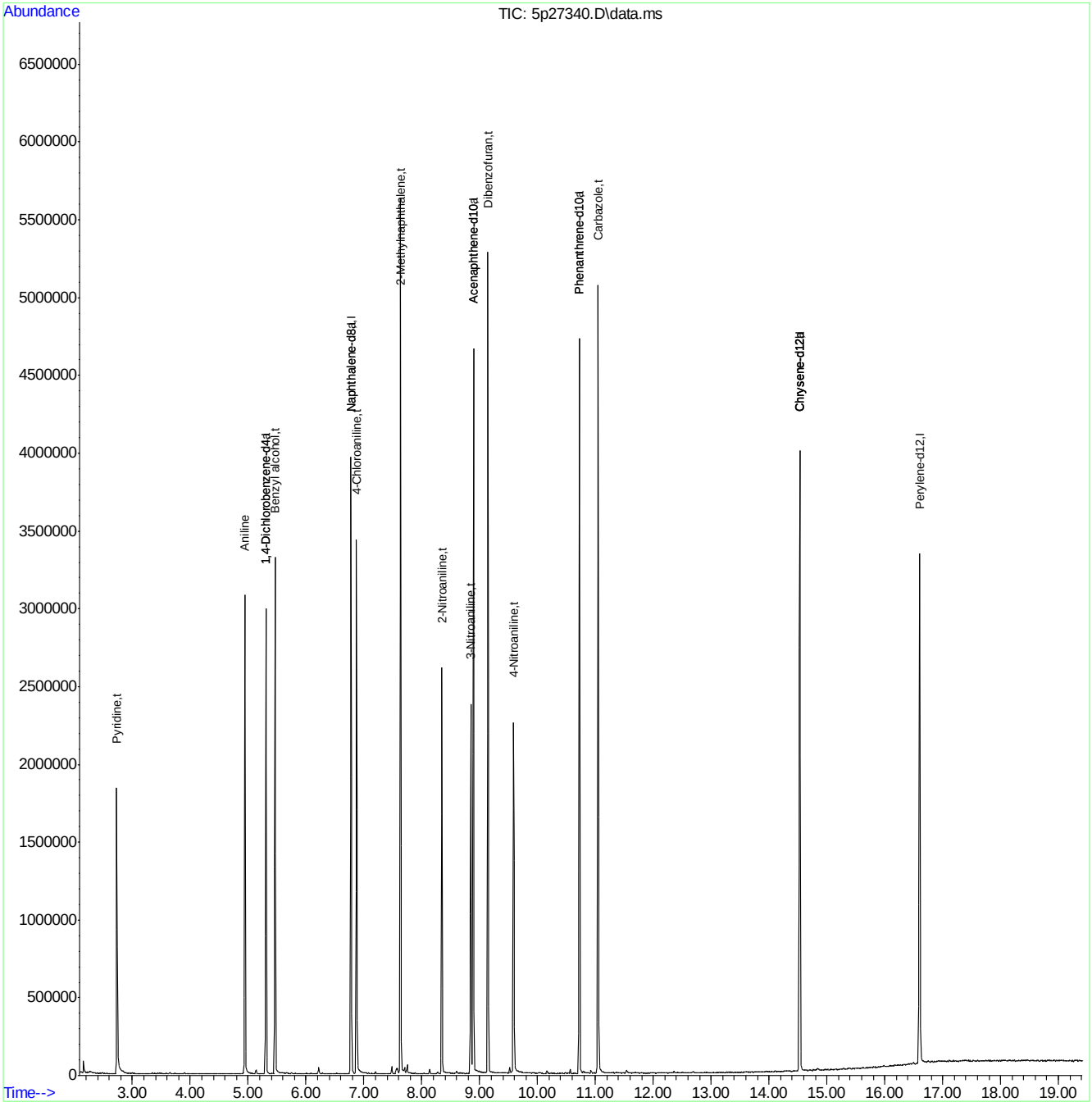
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27340.D
Acq On : 11 Apr 2016 8:20 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 11 21:12:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27341a.D
Acq On : 11 Apr 2016 8:47 pm
Operator : ariellec
Sample : icv1383-50
Misc : op92466,e5p1383
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 11 21:15:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.303	152	469445	40.00 ppm	0.00
24) Naphthalene-d8	6.773	136	1797316	40.00 ppm	0.00
47) Acenaphthene-d10	8.888	164	1079163	40.00 ppm	0.00
69) Phenanthrene-d10	10.726	188	1795937	40.00 ppm	0.00
83) Chrysene-d12	14.535	240	1830106	40.00 ppm	0.00
92) Perylene-d12	16.602	264	1762488	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	469445	40.00 ppm	0.00
104) Acenaphthene-d10a	8.888	164	1079163	40.00 ppm	0.00
106) Chrysene-d12a	14.535	240	1830106	40.00 ppm	0.00
109) Phenanthrene-d10a	10.726	188	1795937	40.00 ppm	0.00
112) Naphthalene-d8a	6.773	136	1797316	40.00 ppm	0.00
114) Chrysene-d12b	14.535	240	1830106	40.00 ppm	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
108) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
107) Benzidine	12.617	184	1728113	71.05 ppm	100

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

7.6.69

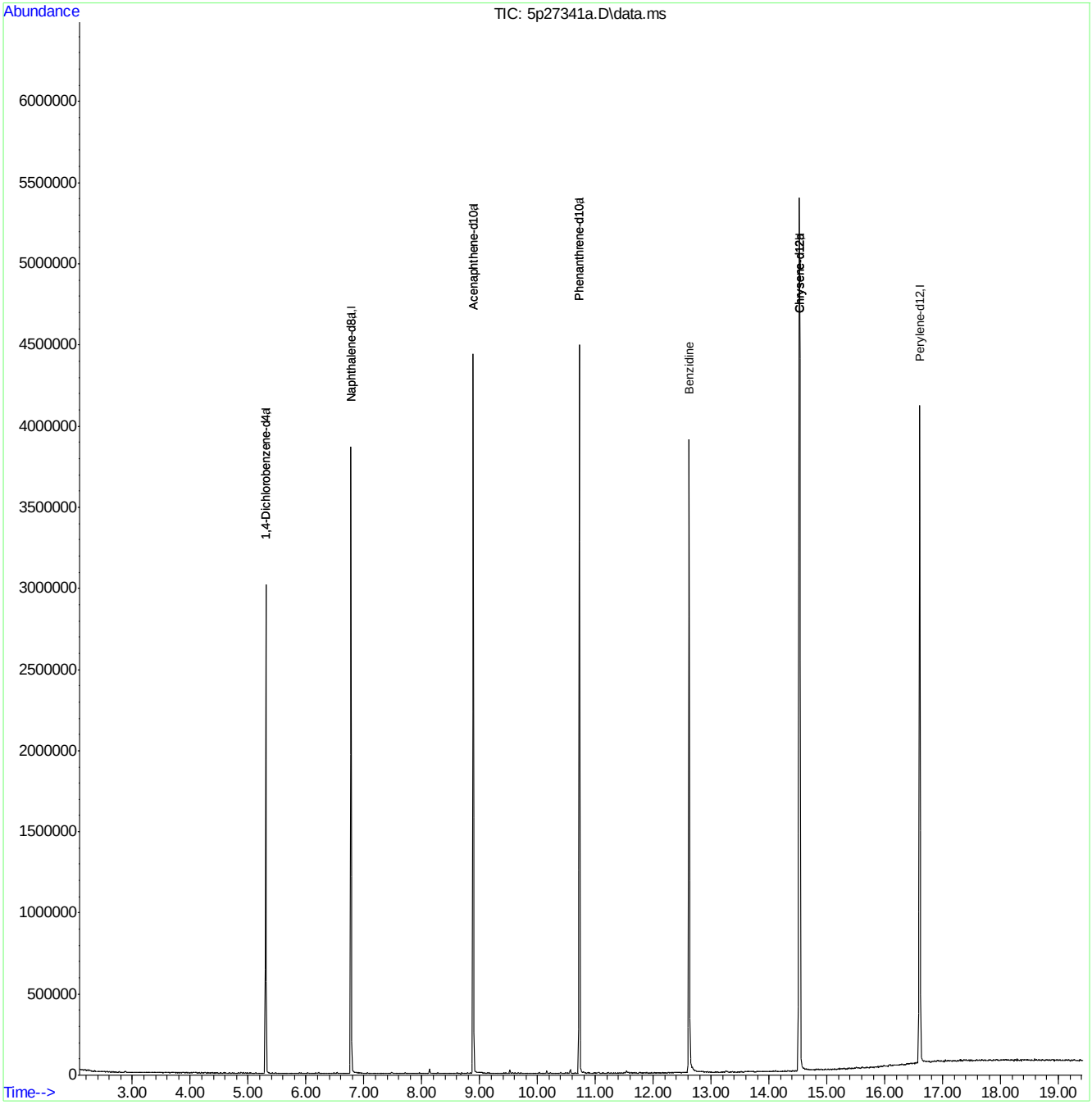
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27341a.D
Acq On : 11 Apr 2016 8:47 pm
Operator : ariellec
Sample : icv1383-50
Misc : op92466,e5p1383
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 11 21:15:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration



M5P1382.M Mon Apr 11 21:15:34 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27341.D
Acq On : 11 Apr 2016 8:47 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 11 21:15:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.303	152	469445	40.00 ppm	0.00
24) Naphthalene-d8	6.773	136	1797316	40.00 ppm	0.00
47) Acenaphthene-d10	8.888	164	1079163	40.00 ppm	0.00
69) Phenanthrene-d10	10.726	188	1795937	40.00 ppm	0.00
83) Chrysene-d12	14.535	240	1830106	40.00 ppm	0.00
92) Perylene-d12	16.602	264	1762488	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.303	152	469445	40.00 ppm	0.00
104) Acenaphthene-d10a	8.888	164	1079163	40.00 ppm	0.00
106) Chrysene-d12a	14.535	240	1830106	40.00 ppm	0.00
109) Phenanthrene-d10a	10.726	188	1795937	40.00 ppm	0.00
112) Naphthalene-d8a	6.773	136	1797316	40.00 ppm	0.00
114) Chrysene-d12b	14.535	240	1830106	40.00 ppm	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
108) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
89) 3,3'-Dichlorobenzidine	14.519	252	890770	48.05 ppm	98

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

7.6.70

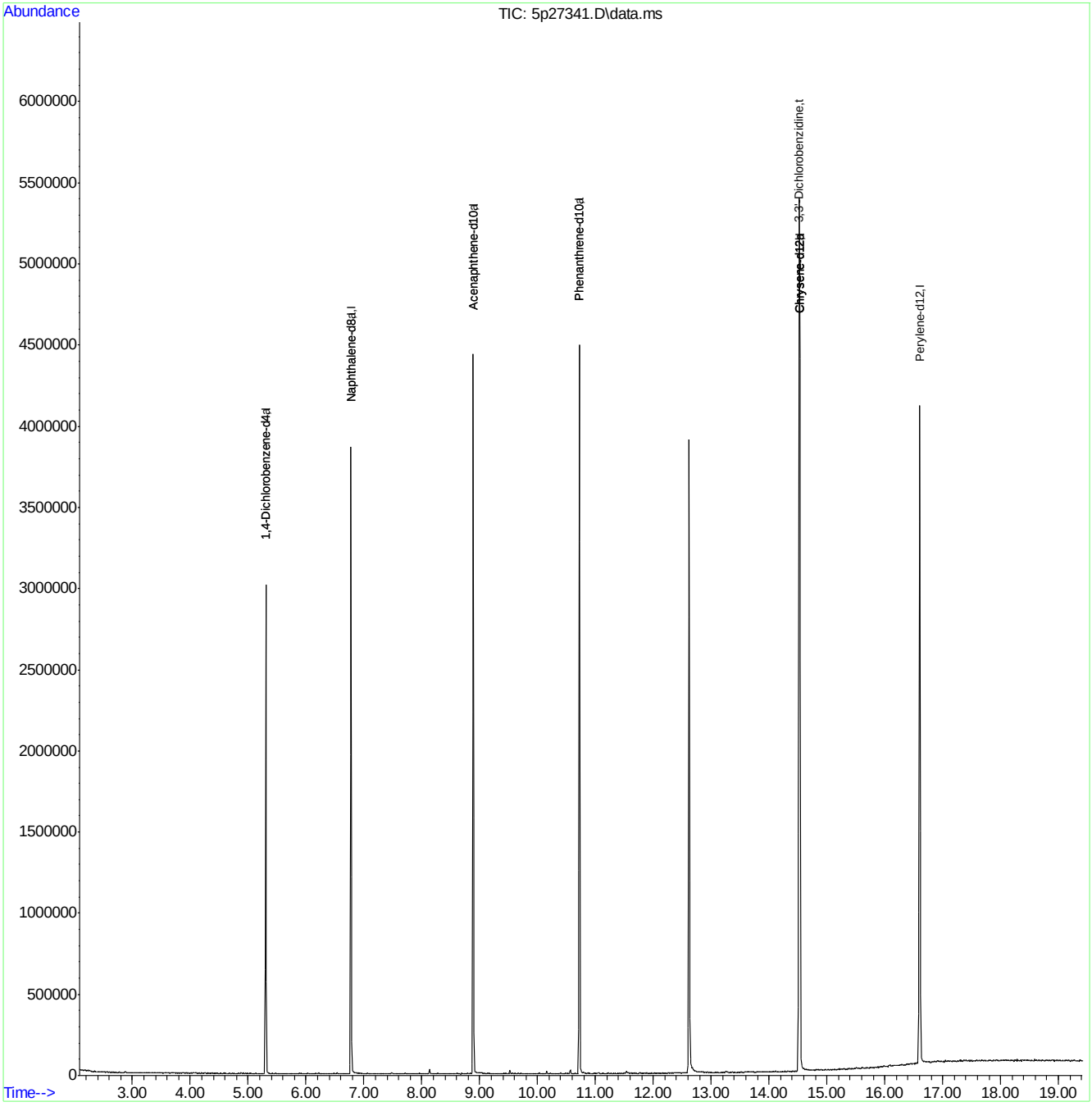
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27341.D
Acq On : 11 Apr 2016 8:47 pm
Operator : ariellec
Sample : icv1382-50
Misc : op92466,e5p1383
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 11 21:15:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27342.D
Acq On : 11 Apr 2016 9:15 pm
Operator : ariellec
Sample : icv1383-50
Misc : op92466,e5p1383
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 11 21:35:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.304	152	477127	40.00	ppm	0.00
24) Naphthalene-d8	6.773	136	1821906	40.00	ppm	0.00
47) Acenaphthene-d10	8.888	164	1066554	40.00	ppm	0.00
69) Phenanthrene-d10	10.726	188	1788876	40.00	ppm	0.00
83) Chrysene-d12	14.530	240	1802716	40.00	ppm	0.00
92) Perylene-d12	16.602	264	1760342	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.304	152	477127	40.00	ppm	0.00
104) Acenaphthene-d10a	8.888	164	1066554	40.00	ppm	0.00
106) Chrysene-d12a	14.530	240	1802716	40.00	ppm	0.00
109) Phenanthrene-d10a	10.726	188	1788876	40.00	ppm	0.00
112) Naphthalene-d8a	6.773	136	1821906	40.00	ppm	0.00
114) Chrysene-d12b	14.530	240	1802716	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
113) Hydroquinone	7.275	110	682981	52.89	ppm	97

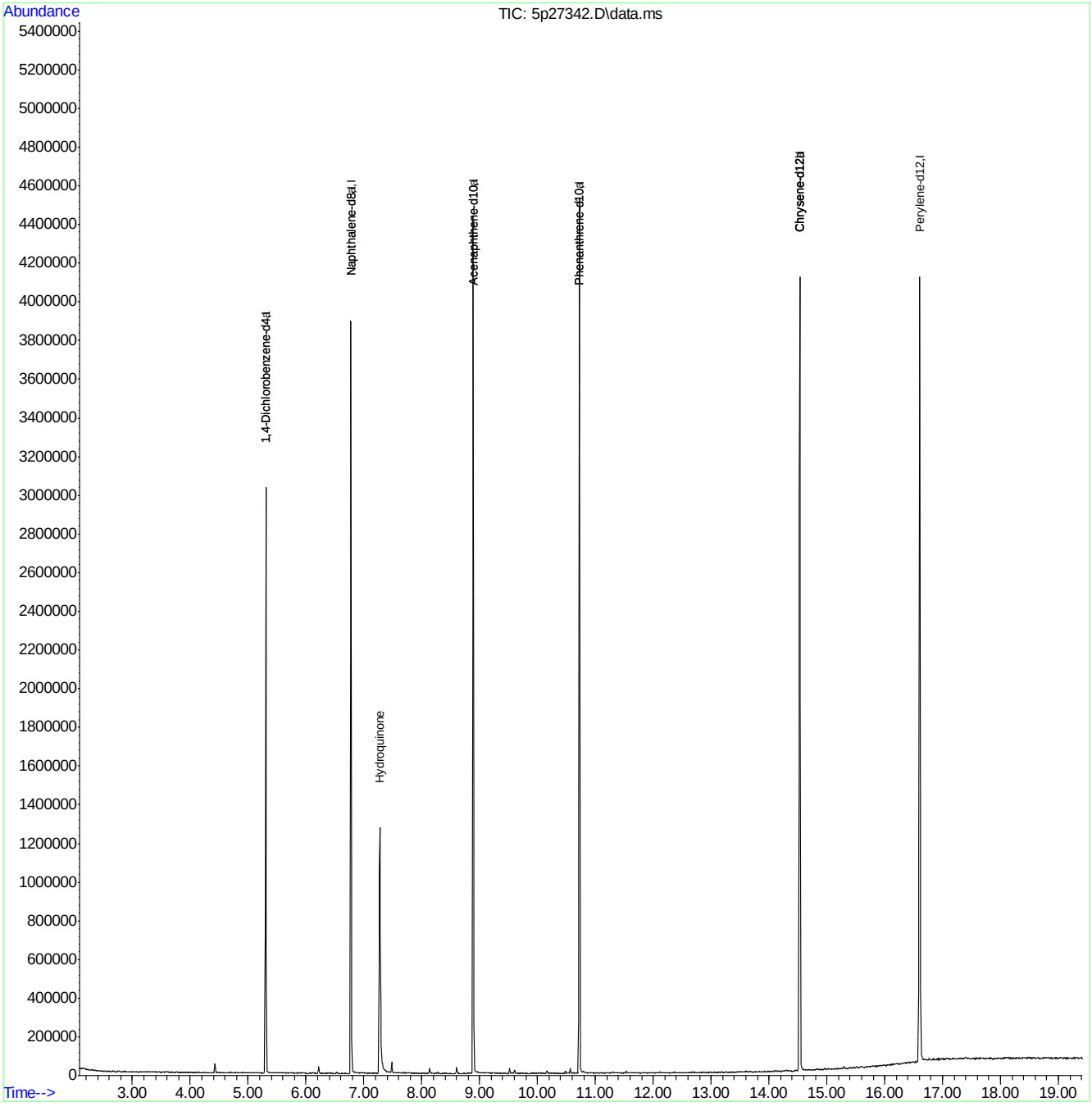
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e5p1383\
Data File : 5p27342.D
Acq On : 11 Apr 2016 9:15 pm
Operator : ariellec
Sample : icv1383-50
Misc : op92466,e5p1383
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 11 21:35:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Apr 11 18:53:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/02/16 15:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27876.D
Acq On : 2 May 2016 10:41 am
Operator : ashleyn
Sample : cc1382-50
Misc : op93450,e5p1414
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 14:17:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:16:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.100	152	677124	40.00	ppm	0.00
24) Naphthalene-d8	6.569	136	2654973	40.00	ppm	0.00
47) Acenaphthene-d10	8.674	164	1505064	40.00	ppm	0.00
69) Phenanthrene-d10	10.496	188	2500244	40.00	ppm	0.00
83) Chrysene-d12	14.262	240	2419099	40.00	ppm	0.00
92) Perylene-d12	16.319	264	2370766	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.100	152	677124	40.00	ppm	0.00
104) Acenaphthene-d10a	8.674	164	1505064	40.00	ppm	0.00
106) Chrysene-d12a	14.262	240	2419099	40.00	ppm	0.00
109) Phenanthrene-d10a	10.496	188	2500244	40.00	ppm	0.00
112) Naphthalene-d8a	6.569	136	2654973	40.00	ppm	0.00
114) Chrysene-d12b	14.262	240	2419099	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.770	112	1031528	49.71	ppm	-0.02
Spiked Amount 50.000			Recovery	=	99.42%	
8) Phenol-d5	4.780	99	1206002	51.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.30%	
25) Nitrobenzene-d5	5.747	82	1050431	52.12	ppm	0.06
Spiked Amount 50.000			Recovery	=	104.24%	
51) 2-Fluorobiphenyl	7.878	172	2396522	50.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.02%	
73) 2,4,6-Tribromophenol	9.641	330	334082	55.34	ppm	0.00
Spiked Amount 50.000			Recovery	=	110.68%	
85) Terphenyl-d14	12.713	244	2577588	53.01	ppm	-0.01
Spiked Amount 50.000			Recovery	=	106.02%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.178	88	375006	47.23	ppm	95
3) Pyridine	2.493	79	788668	45.12	ppm	98
4) N-Nitrosodimethylamine	2.456	74	501602	51.20	ppm	89
6) Indene	5.389	116	2015964	54.41	ppm	97
7) Cumene	4.230	105	2669716	53.43	ppm	97
9) Phenol	4.796	94	1383062	56.73	ppm	99
10) Aniline	4.769	93	1077091	40.77	ppm #	59
11) bis(2-Chloroethyl)ether	4.828	93	922905	51.02	ppm	99
12) 2-Chlorophenol	4.897	128	1176741	50.14	ppm	95
13) Decane	4.908	43	1338678	86.19	ppm	77
14) 1,3-Dichlorobenzene	5.036	146	1323261	50.81	ppm	97
15) 1,4-Dichlorobenzene	5.122	146	1309029	49.85	ppm	94
16) Benzyl alcohol	5.293	108	665447	49.52	ppm	98
17) 1,2-Dichlorobenzene	5.287	146	1247144	49.97	ppm	98
18) Acetophenone	5.570	105	1529283	52.56	ppm	98
19) 2-Methylphenol	5.448	108	949685	53.15	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.421	45	1690764	81.35	ppm	78

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27876.D
Acq On : 2 May 2016 10:41 am
Operator : ashleyn
Sample : cc1382-50
Misc : op93450,e5p1414
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 14:17:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:16:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.629	108	1065133	56.04	ppm		94
22) n-Nitroso-di-n-propyla...	5.576	70	743464	57.40	ppm		96
23) Hexachloroethane	5.667	201	395913	46.78	ppm		88
26) Nitrobenzene	5.768	77	1061159	53.41	ppm		100
27) Quinoline	7.008	129	2305566	49.52	ppm		99
28) Isophorone	6.041	82	1788777	51.53	ppm		95
29) 2-Nitrophenol	6.137	139	656353	52.70	ppm		93
30) 2,4-Dimethylphenol	6.228	107	1102937	56.43	ppm		100
31) Benzoic acid	6.409	105	781018	48.91	ppm		84
32) bis(2-Chloroethoxy)met...	6.313	93	1133231	49.96	ppm		98
33) 2,4-Dichlorophenol	6.441	162	939372	49.67	ppm		99
34) 2,6-Dichlorophenol	6.698	162	907514	48.79	ppm	#	1
35) 1,3,5-Trichlorobenzene	6.126	180	1052038	48.29	ppm		96
36) 1,2,4-Trichlorobenzene	6.500	180	1013126	47.62	ppm		94
37) 1,2,3-Trichlorobenzene	6.767	180	963218	45.93	ppm		93
38) Naphthalene	6.591	128	3475794	51.67	ppm		95
39) 4-Chloroaniline	6.698	127	1241136	44.06	ppm		96
40) 2,3-Dichloroaniline	7.782	161	1127295	47.83	ppm		99
41) Caprolactam	7.136	55	524651	69.37	ppm		89
42) Hexachlorobutadiene	6.740	225	510720	46.62	ppm		98
43) 4-Chloro-3-methylphenol	7.328	107	1087257	53.80	ppm		99
44) 2-Methylnaphthalene	7.419	141	2018681	52.03	ppm		94
45) 1-Methylnaphthalene	7.536	141	2099073	52.09	ppm		93
46) Dimethylnaphthalene	8.172	156	2137183	50.58	ppm		91
48) Hexachlorocyclopentadiene	7.606	237	952822	101.02	ppm		93
49) 2,4,6-Trichlorophenol	7.793	196	627254	48.94	ppm		96
50) 2,4,5-Trichlorophenol	7.852	196	698357	50.47	ppm		99
52) 2-Chloronaphthalene	8.007	162	2075450	48.94	ppm		90
53) Biphenyl	7.990	154	2816188	51.27	ppm		97
54) 2-Nitroaniline	8.172	65	706003	66.22	ppm		94
55) Dimethylphthalate	8.391	163	2551708	50.76	ppm		99
56) Acenaphthylene	8.503	152	3552137	52.71	ppm		95
57) 2,6-Dinitrotoluene	8.466	165	582373	56.27	ppm		94
58) 3-Nitroaniline	8.680	138	600382	49.88	ppm		87
59) Acenaphthene	8.712	153	2216145	51.42	ppm		96
60) 2,4-Dinitrophenol	8.797	184	703065	107.18	ppm		82
61) 4-Nitrophenol	8.968	109	357174	58.46	ppm		90
62) Dibenzofuran	8.925	168	2997409	51.09	ppm		96
63) 2,4-Dinitrotoluene	8.947	165	845402	61.14	ppm		92
64) 2,3,4,6-Tetrachlorophenol	9.102	232	534948	49.02	ppm		88
65) Diethylphthalate	9.246	149	2712660	52.82	ppm		98
66) Fluorene	9.342	166	2498138	51.69	ppm		99
67) 4-Chlorophenyl-phenyle...	9.353	204	1115785	49.00	ppm		80
68) 4-Nitroaniline	9.433	138	641880	52.77	ppm	#	72
70) 4,6-Dinitro-2-methylph...	9.438	198	453098	56.68	ppm		91
71) n-Nitrosodiphenylamine	9.513	169	1873769	51.99	ppm		98
72) 1,2-Diphenylhydrazine	9.545	77	2126862	56.90	ppm		87
74) 4-Bromophenyl-phenylether	9.946	248	655820	47.35	ppm		92
75) Hexachlorobenzene	9.994	284	696919	49.56	ppm		95
76) Pentachlorophenol	10.282	266	824683	96.15	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27876.D
Acq On : 2 May 2016 10:41 am
Operator : ashleyn
Sample : cc1382-50
Misc : op93450,e5p1414
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 14:17:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:16:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.523	178	3504062	49.90	ppm	98
78) Anthracene	10.587	178	3580149	50.73	ppm	98
79) Carbazole	10.833	167	3387653	50.98	ppm	93
80) Di-n-butylphthalate	11.313	149	4705892	55.89	ppm	99
81) Fluoranthene	12.131	202	3668736	50.55	ppm	97
82) Octadecane	10.378	57	1867889	80.66	ppm	72
84) Pyrene	12.451	202	3808105	51.14	ppm	99
86) Butylbenzylphthalate	13.482	149	2115457	57.91	ppm	84
87) Butyl stearate	13.595	56	1292869	86.97	ppm	82
88) Benzo[a]anthracene	14.241	228	3439265	51.40	ppm	97
89) 3,3'-Dichlorobenzidine	14.262	252	1379465	56.29	ppm	96
90) Chrysene	14.300	228	3457666	50.62	ppm	97
91) bis(2-Ethylhexyl)phtha...	14.369	149	3042611	58.74	ppm	100
93) Di-n-octylphthalate	15.336	149	5261275	63.98	ppm	96
94) Benzo[b]fluoranthene	15.806	252	3759681	54.35	ppm	100
95) Benzo[k]fluoranthene	15.844	252	3416427	51.69	ppm	100
96) Benzo[a]pyrene	16.244	252	3249745	52.41	ppm	100
97) Indeno[1,2,3-cd]pyrene	17.842	276	3578588m	58.84	ppm	
98) Dibenz(a,h)acridine	17.494	279	3101469	57.63	ppm	100
99) Dibenz[a,h]anthracene	17.879	278	3667345	57.69	ppm	100
100) 7,12-Dimethylbenz(a)an...	15.801	256	1665987	62.58	ppm	100
101) Benzo[g,h,i]perylene	18.285	276	3639167	56.31	ppm	100

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

7.6.72

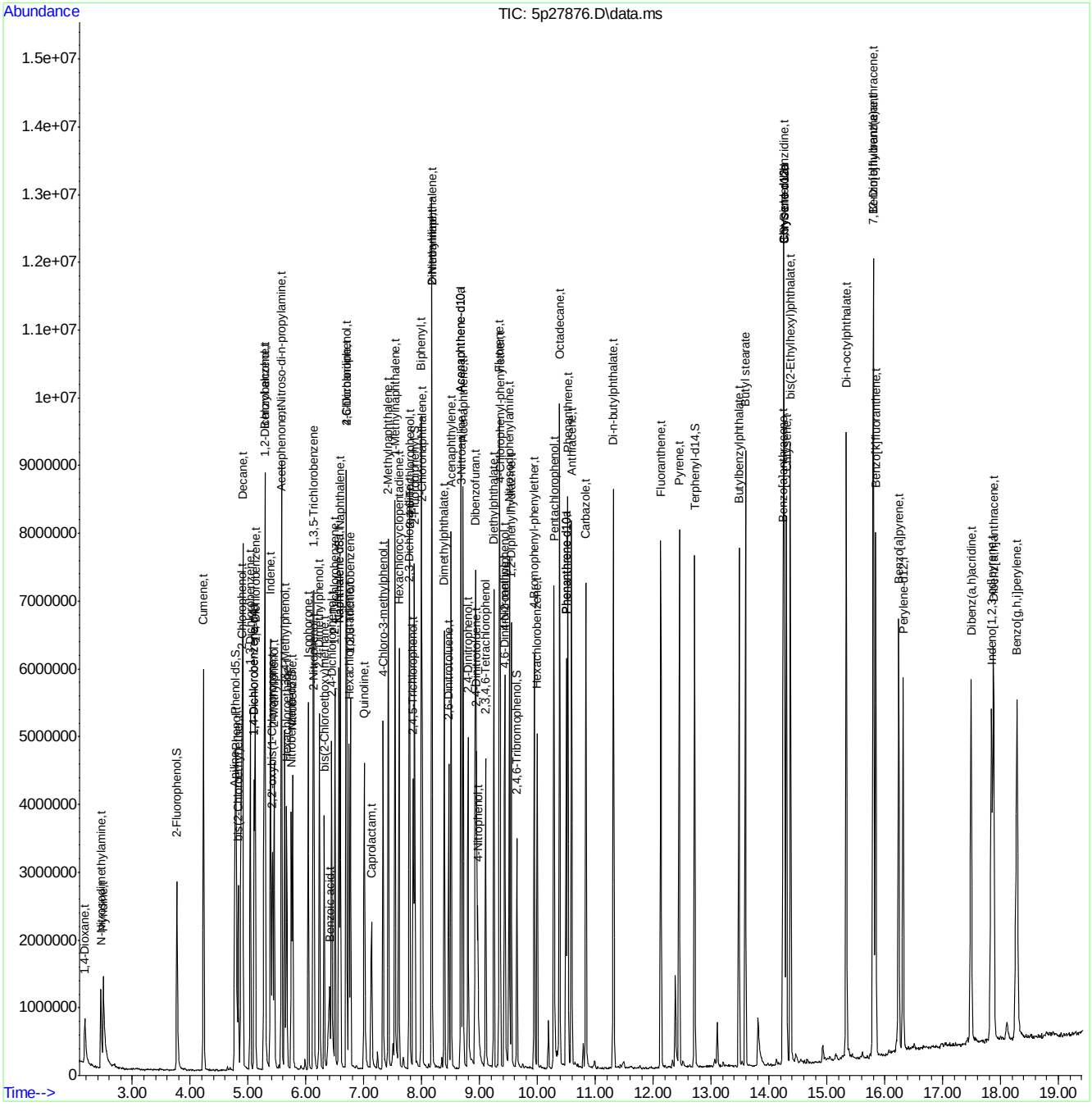
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27876.D
Acq On : 2 May 2016 10:41 am
Operator : ashleyn
Sample : cc1382-50
Misc : op93450,e5p1414
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 14:17:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:16:39 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

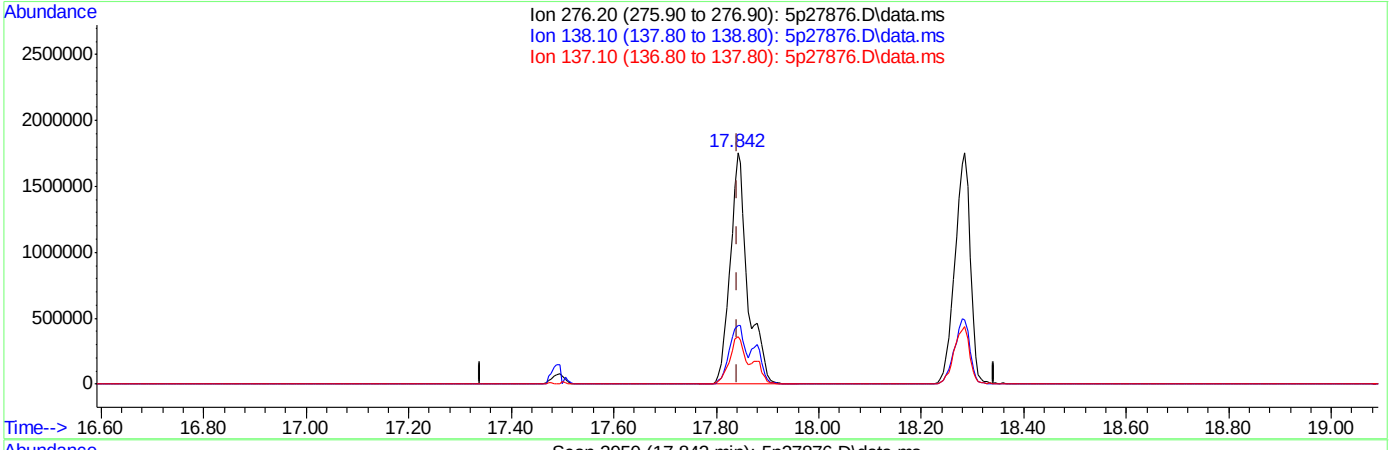
Sample Number:	E5P1414-CC1382	**Method:**	SW846 8270D
Lab FileID:	5P27876.D	**Analyst approved:**	05/02/16 14:35 Ashley Dye
Injection Time:	05/02/16 10:41	**Supervisor approved:**	05/02/16 15:05 Nina Pandya

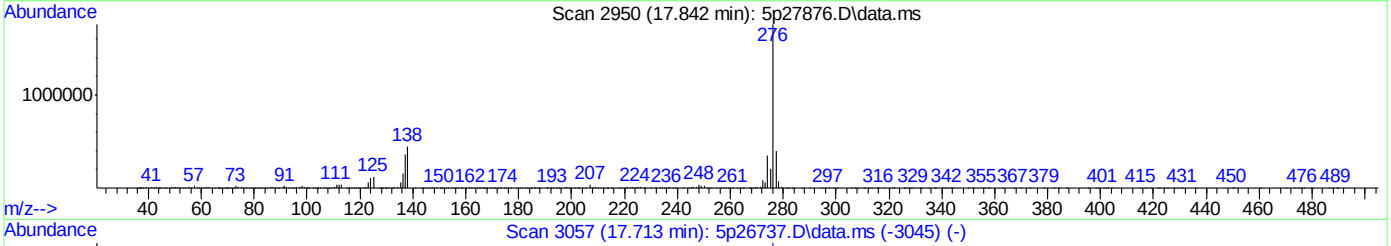
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.84	Overlapping peak

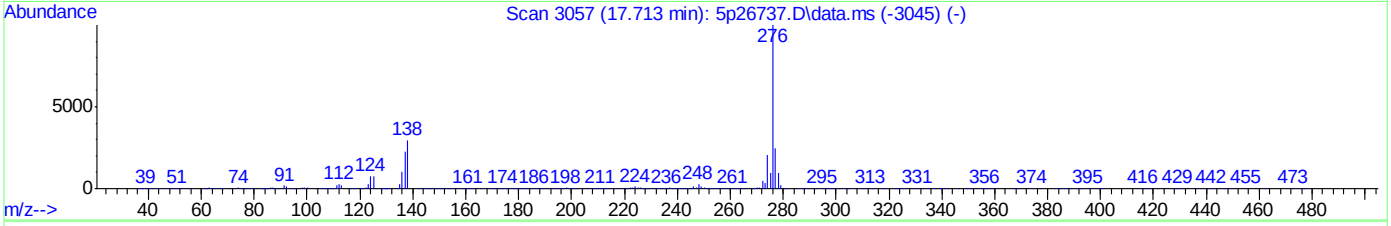
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27876.D
Acq On : 2 May 2016 10:41 am
Operator : ashleyn
Sample : cc1382-50
Misc : op93450,e5p1414
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 11:22:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 11:22:37 2016
Response via : Initial Calibration







TIC: 5p27876.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.842min (0.000) 69.04ppm

response 4199068

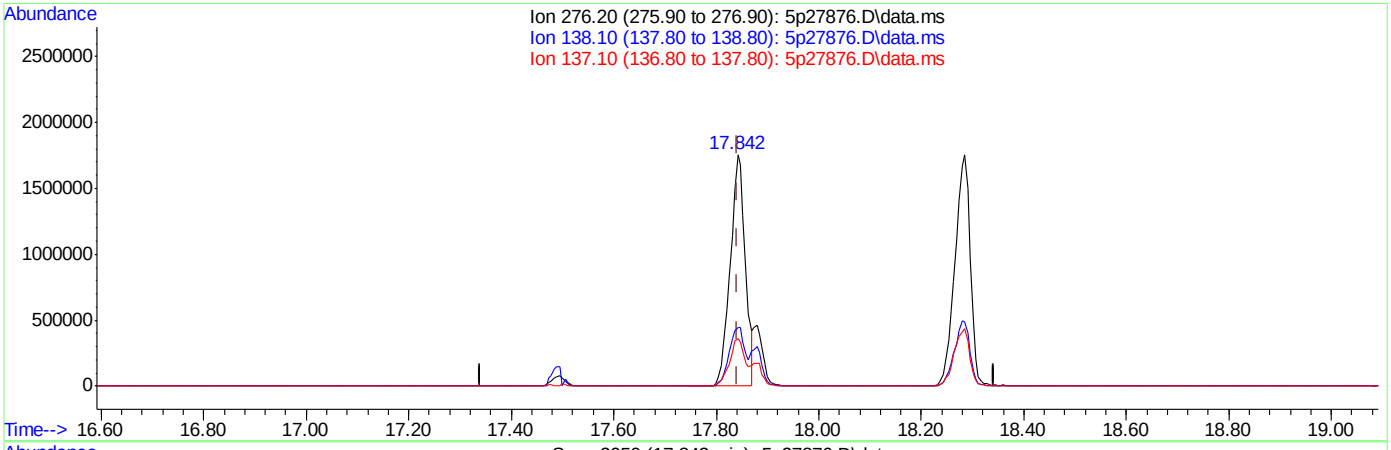
Ion	Exp%	Act%
276.20	100	100
138.10	25.40	25.30
137.10	20.30	20.20
0.00	0.00	0.00

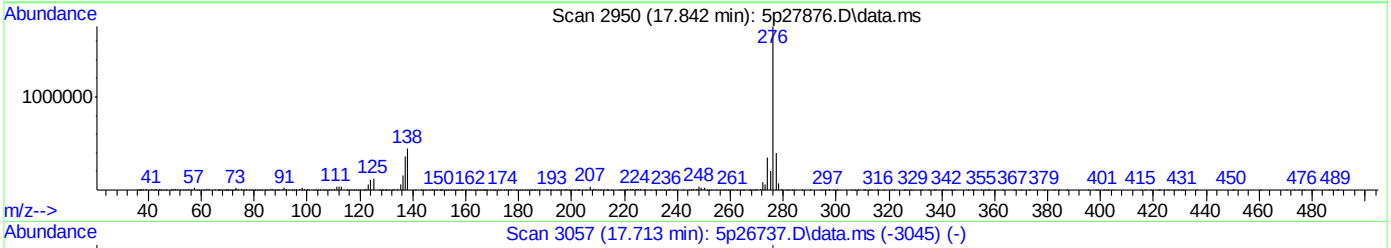
SGS ACCUTEST JC19423

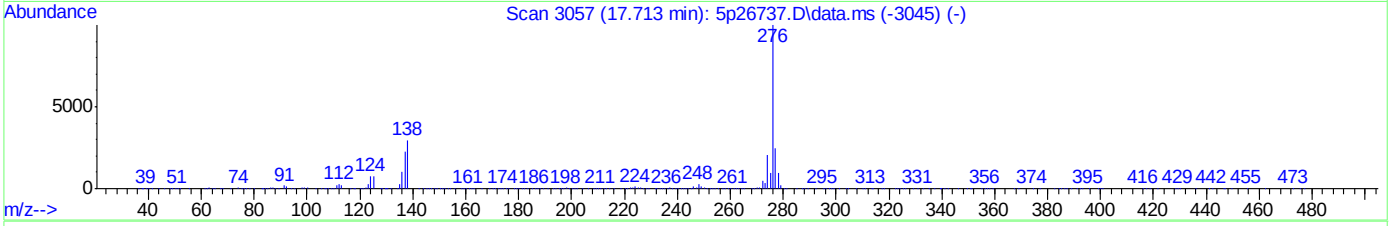
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27876.D
Acq On : 2 May 2016 10:41 am
Operator : ashleyn
Sample : cc1382-50
Misc : op93450,e5p1414
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 14:16:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:16:39 2016
Response via : Initial Calibration







TIC: 5p27876.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.842min (0.000) 58.84ppm m

response 3578588

Ion	Exp%	Act%
276.20	100	100
138.10	25.40	25.42
137.10	20.30	20.32
0.00	0.00	0.00

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27877.D
Acq On : 2 May 2016 11:24 am
Operator : ashleyn
Sample : cc1383-50
Misc : op93450,e5p1414
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:18:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:16:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.100	152	754694	40.00	ppm	0.00
24) Naphthalene-d8	6.564	136	2985741	40.00	ppm	0.00
47) Acenaphthene-d10	8.674	164	1639959	40.00	ppm	0.00
69) Phenanthrene-d10	10.491	188	2709648	40.00	ppm	0.00
83) Chrysene-d12	14.257	240	2620029	40.00	ppm	0.00
92) Perylene-d12	16.314	264	2640650	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.100	152	754694	40.00	ppm	0.00
104) Acenaphthene-d10a	8.674	164	1639959	40.00	ppm	0.00
106) Chrysene-d12a	14.257	240	2620029	40.00	ppm	0.00
109) Phenanthrene-d10a	10.491	188	2709648	40.00	ppm	0.00
112) Naphthalene-d8a	6.564	136	2985741	40.00	ppm	0.00
114) Chrysene-d12b	14.257	240	2620029	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	12.008	57	1340521	89.75	ppm	0.00
Spiked Amount 50.000			Recovery	=	179.50%	
110) o-terphenyl	11.014	230	1865842	50.18	ppm	-0.05
Spiked Amount 50.000			Recovery	=	100.36%	
Target Compounds						Qvalue
103) Benzaldehyde	4.636	105	729536	39.81	ppm	89
105) 1,2,4,5-Tetrachloroben...	7.616	216	960740	42.40	ppm	97
107) Benzidine	12.382	184	1628609	46.77	ppm	97
111) Atrazine	10.191	215	369776	52.99	ppm	86
113) Hydroquinone	7.178	110	1055043	49.86	ppm	97

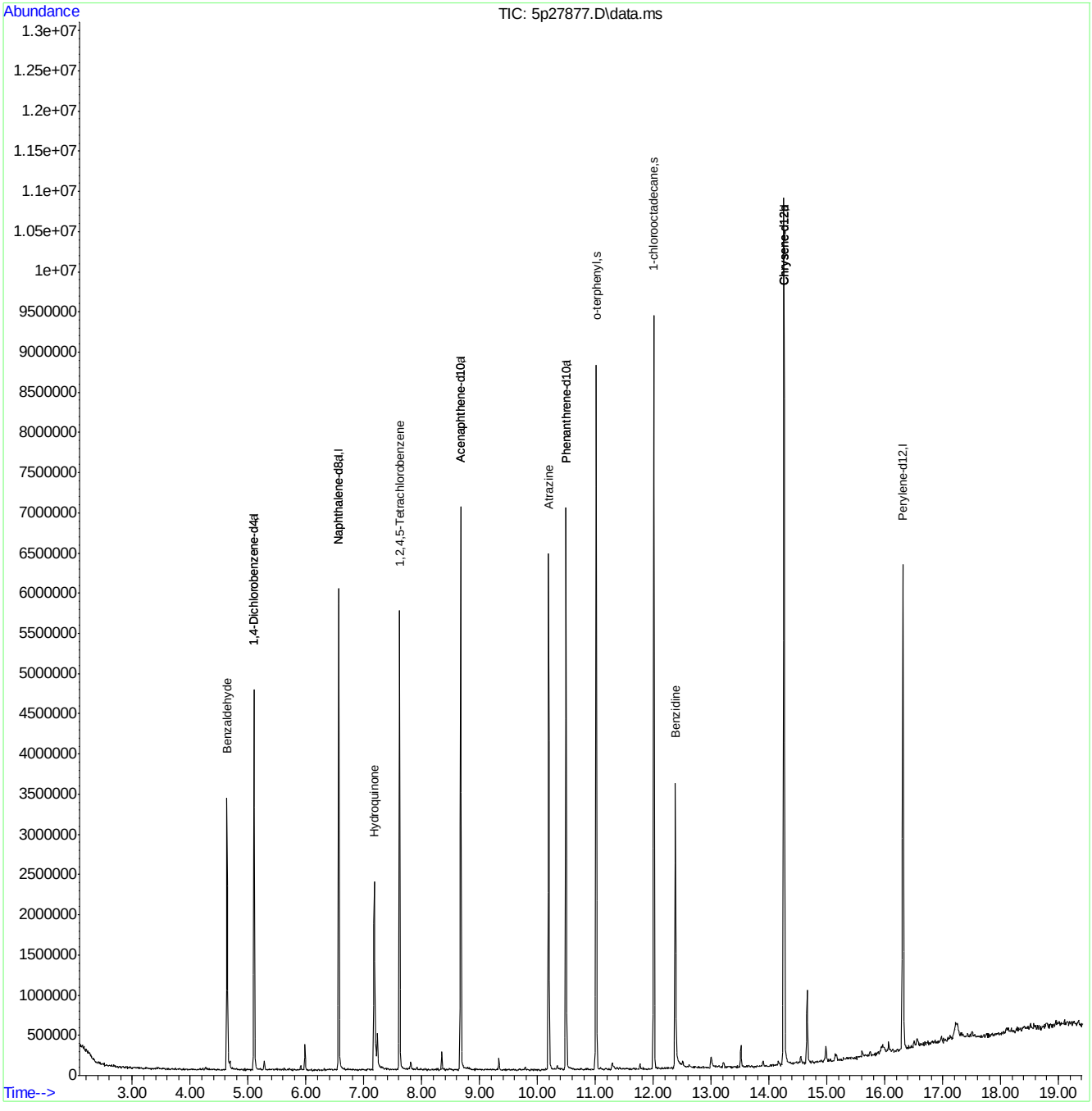
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1414\
Data File : 5p27877.D
Acq On : 2 May 2016 11:24 am
Operator : ashleyn
Sample : cc1383-50
Misc : op93450,e5p1414
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:18:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon May 02 14:16:39 2016
Response via : Initial Calibration



M5P1382.M Mon May 02 14:18:35 2016 RPT1 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 05/06/16 16:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27902.D
Acq On : 3 May 2016 8:39 am
Operator : ashleyd
Sample : cc1382-25
Misc : op93450,e5p1416
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 12:15:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.293	152	745526	40.00	ppm	0.00
24) Naphthalene-d8	6.762	136	3093488	40.00	ppm	0.00
47) Acenaphthene-d10	8.872	164	1850267	40.00	ppm	0.00
69) Phenanthrene-d10	10.710	188	2967916	40.00	ppm	0.00
83) Chrysene-d12	14.508	240	2857587	40.00	ppm	0.00
92) Perylene-d12	16.581	264	2737860	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.293	152	745526	40.00	ppm	0.00
104) Acenaphthene-d10a	8.872	164	1850267	40.00	ppm	0.00
106) Chrysene-d12a	14.508	240	2858102	40.00	ppm	0.00
109) Phenanthrene-d10a	10.710	188	2967916	40.00	ppm	0.00
112) Naphthalene-d8a	6.762	136	3093488	40.00	ppm	0.00
114) Chrysene-d12b	14.508	240	2858102	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.957	112	557899	24.42	ppm	0.03
Spiked Amount 50.000			Recovery	=	48.84%	
8) Phenol-d5	4.962	99	684276	26.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	52.72%	
25) Nitrobenzene-d5	5.939	82	623177	26.54	ppm	0.09
Spiked Amount 50.000			Recovery	=	53.08%	
51) 2-Fluorobiphenyl	8.071	172	1442456	24.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	48.98%	
73) 2,4,6-Tribromophenol	9.844	330	201783	28.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	56.32%	
85) Terphenyl-d14	12.943	244	1555840	27.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	54.18%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.354	88	199805	22.85	ppm	93
3) Pyridine	2.675	79	445253	23.13	ppm	93
4) N-Nitrosodimethylamine	2.638	74	264511	24.52	ppm	98
6) Indene	5.581	116	1122529	27.52	ppm	91
7) Cumene	4.417	105	1481464	26.93	ppm	97
9) Phenol	4.978	94	796163	29.66	ppm	94
10) Aniline	4.956	93	645684	22.20	ppm	81
11) bis(2-Chloroethyl)ether	5.015	93	526238	26.42	ppm	98
12) 2-Chlorophenol	5.084	128	670913	25.97	ppm	96
13) Decane	5.090	43	739932	43.27	ppm	76
14) 1,3-Dichlorobenzene	5.223	146	736763	25.70	ppm	96
15) 1,4-Dichlorobenzene	5.314	146	754962	26.11	ppm	97
16) Benzyl alcohol	5.480	108	379791	25.67	ppm	94
17) 1,2-Dichlorobenzene	5.480	146	706951	25.73	ppm	98
18) Acetophenone	5.763	105	905582	28.27	ppm	95
19) 2-Methylphenol	5.635	108	553267	28.12	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.608	45	945338	41.31	ppm	78

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27902.D
Acq On : 3 May 2016 8:39 am
Operator : ashleyd
Sample : cc1382-25
Misc : op93450,e5p1416
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 12:15:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.811	108	597323	28.54	ppm		97
22) n-Nitroso-di-n-propyla...	5.763	70	436519	30.61	ppm		98
23) Hexachloroethane	5.859	201	232337	24.93	ppm		92
26) Nitrobenzene	5.961	77	607601	26.25	ppm		97
27) Quinoline	7.200	129	1395773	25.73	ppm		99
28) Isophorone	6.228	82	1075278	26.59	ppm		93
29) 2-Nitrophenol	6.329	139	375237	25.86	ppm		98
30) 2,4-Dimethylphenol	6.415	107	626453	27.51	ppm		97
31) Benzoic acid	6.570	105	419453m	22.54	ppm		
32) bis(2-Chloroethoxy)met...	6.500	93	649302	24.57	ppm		95
33) 2,4-Dichlorophenol	6.634	162	542746	24.63	ppm		96
34) 2,6-Dichlorophenol	6.890	162	546361	25.21	ppm	#	1
35) 1,3,5-Trichlorobenzene	6.318	180	606091	23.88	ppm		96
36) 1,2,4-Trichlorobenzene	6.692	180	586752	23.67	ppm		95
37) 1,2,3-Trichlorobenzene	6.960	180	570001	23.33	ppm		95
38) Naphthalene	6.789	128	2066291	26.36	ppm		96
39) 4-Chloroaniline	6.890	127	783542	23.87	ppm		99
40) 2,3-Dichloroaniline	7.980	161	688215	25.06	ppm		97
41) Caprolactam	7.317	55	325129	36.89	ppm		87
42) Hexachlorobutadiene	6.933	225	303855	23.81	ppm		96
43) 4-Chloro-3-methylphenol	7.515	107	670615	28.48	ppm		99
44) 2-Methylnaphthalene	7.617	141	1250711	27.67	ppm		90
45) 1-Methylnaphthalene	7.734	141	1288077	27.43	ppm		93
46) Dimethylnaphthalene	8.370	156	1312464	26.66	ppm		94
48) Hexachlorocyclopentadiene	7.798	237	553509	47.74	ppm		98
49) 2,4,6-Trichlorophenol	7.985	196	392141	24.89	ppm		99
50) 2,4,5-Trichlorophenol	8.044	196	397004	23.34	ppm		95
52) 2-Chloronaphthalene	8.204	162	1285688	24.66	ppm		91
53) Biphenyl	8.183	154	1714699	25.39	ppm		95
54) 2-Nitroaniline	8.365	65	434811	33.17	ppm		92
55) Dimethylphthalate	8.578	163	1568139	25.37	ppm		98
56) Acenaphthylene	8.701	152	2153504	25.99	ppm		96
57) 2,6-Dinitrotoluene	8.653	165	347833	27.34	ppm		96
58) 3-Nitroaniline	8.872	138	375382	25.37	ppm		79
59) Acenaphthene	8.909	153	1379233	26.03	ppm		97
60) 2,4-Dinitrophenol	8.990	184	330417	44.64	ppm		77
61) 4-Nitrophenol	9.161	109	209736	27.92	ppm	#	49
62) Dibenzofuran	9.123	168	1840641	25.52	ppm		97
63) 2,4-Dinitrotoluene	9.139	165	500289	29.43	ppm		99
64) 2,3,4,6-Tetrachlorophenol	9.299	232	313541	23.37	ppm		94
65) Diethylphthalate	9.433	149	1692370	26.81	ppm		98
66) Fluorene	9.540	166	1553953	26.15	ppm		99
67) 4-Chlorophenyl-phenyle...	9.550	204	684584	24.45	ppm		78
68) 4-Nitroaniline	9.620	138	392458	26.24	ppm	#	71
70) 4,6-Dinitro-2-methylph...	9.631	198	251787	26.54	ppm		82
71) n-Nitrosodiphenylamine	9.705	169	1125106	26.30	ppm		97
72) 1,2-Diphenylhydrazine	9.743	77	1281951	28.89	ppm		81
74) 4-Bromophenyl-phenylether	10.143	248	411412	25.02	ppm		96
75) Hexachlorobenzene	10.202	284	422774	25.33	ppm		95
76) Pentachlorophenol	10.485	266	490230	48.15	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27902.D
Acq On : 3 May 2016 8:39 am
Operator : ashleyd
Sample : cc1382-25
Misc : op93450,e5p1416
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 12:15:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.736	178	2149365	25.79	ppm	97
78) Anthracene	10.806	178	2148588	25.65	ppm	98
79) Carbazole	11.046	167	2076205	26.32	ppm	95
80) Di-n-butylphthalate	11.522	149	2910566	29.12	ppm	99
81) Fluoranthene	12.361	202	2204918	25.59	ppm	98
82) Octadecane	10.571	57	1126733	40.99	ppm	71
84) Pyrene	12.686	202	2279635	25.91	ppm	98
86) Butylbenzylphthalate	13.707	149	1275143	29.55	ppm	83
87) Butyl stearate	13.808	56	770211	43.86	ppm	80
88) Benzo[a]anthracene	14.487	228	2062321	26.09	ppm	97
89) 3,3'-Dichlorobenzidine	14.497	252	797710	27.56	ppm	96
90) Chrysene	14.546	228	2064232	25.58	ppm	96
91) bis(2-Ethylhexyl)phtha...	14.594	149	1810798	29.59	ppm	97
93) Di-n-octylphthalate	15.561	149	3081747	32.45	ppm	97
94) Benzo[b]fluoranthene	16.057	252	2214879	27.73	ppm	100
95) Benzo[k]fluoranthene	16.095	252	1999575	26.19	ppm	100
96) Benzo[a]pyrene	16.495	252	1919415	26.81	ppm	100
97) Indeno[1,2,3-cd]pyrene	18.210	276	2013803m	28.67	ppm	
98) Dibenz(a,h)acridine	17.831	279	1836562	29.55	ppm	100
99) Dibenz[a,h]anthracene	18.248	278	2152891	29.33	ppm	100
100) 7,12-Dimethylbenz(a)an...	16.052	256	922986	30.02	ppm	100
101) Benzo[g,h,i]perylene	18.686	276	2082152	27.90	ppm	100

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

7.6.74

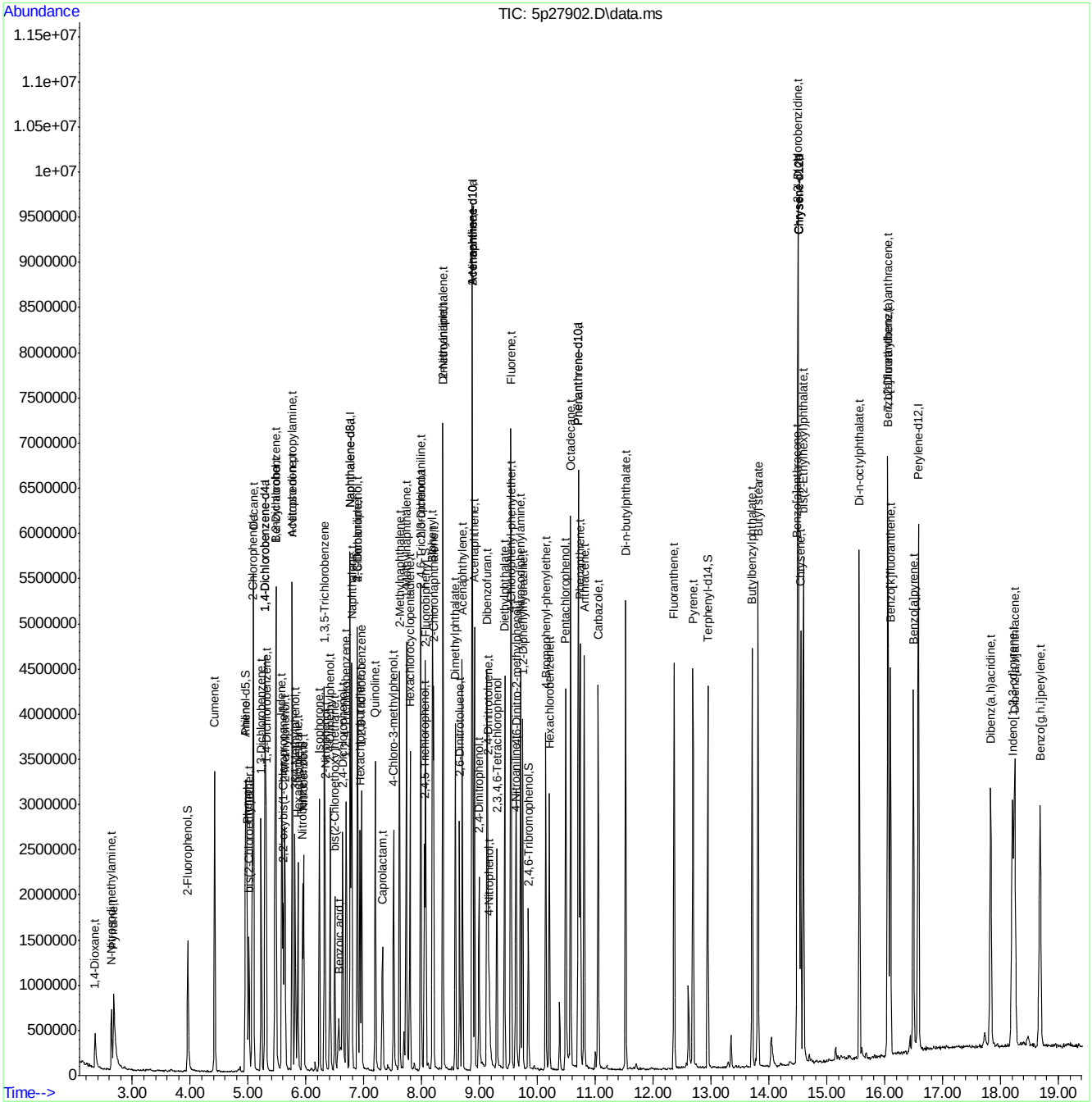
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27902.D
Acq On : 3 May 2016 8:39 am
Operator : ashleyd
Sample : cc1382-25
Misc : op93450,e5p1416
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 12:15:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

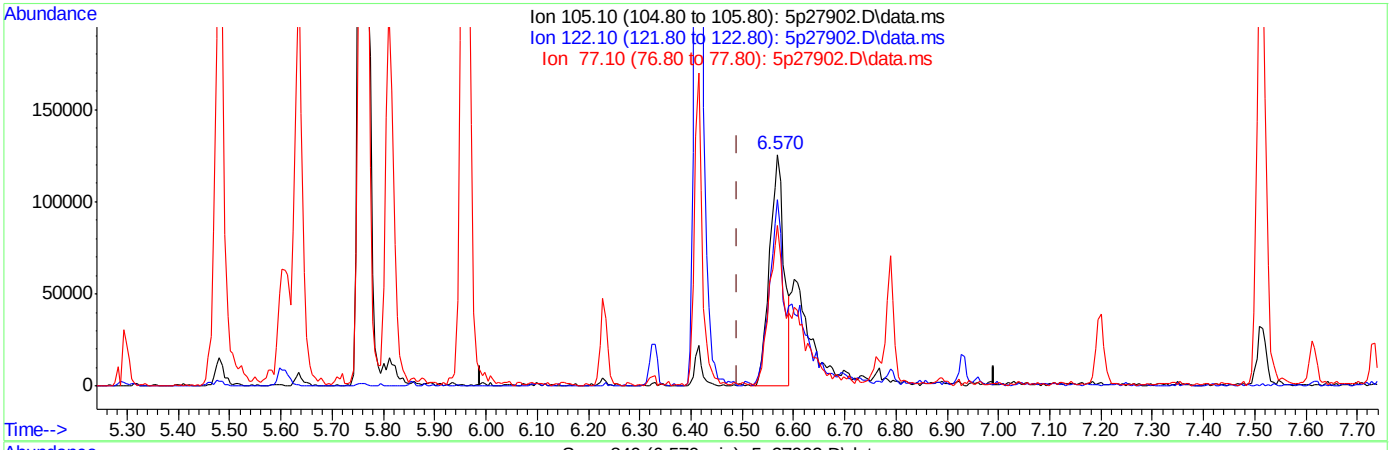
Sample Number:	E5P1416-CC1382	**Method:**	SW846 8270D
Lab FileID:	5P27902.D	**Analyst approved:**	05/03/16 12:25 Ashley Dye
Injection Time:	05/03/16 08:39	**Supervisor approved:**	05/06/16 16:42 Kristi Schollenberger

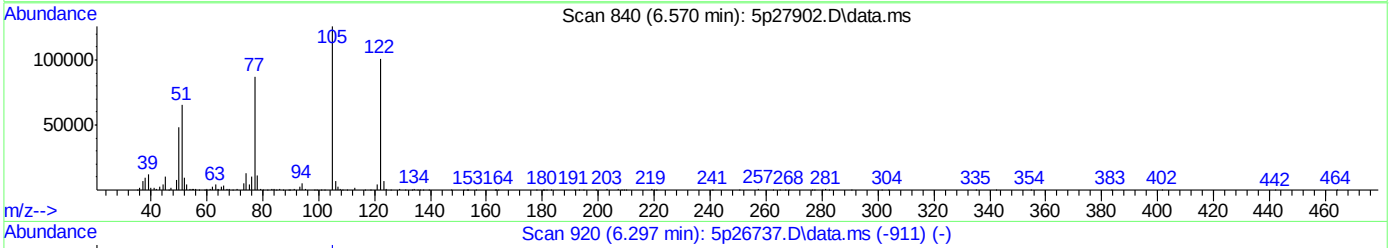
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.57	Split peak
Indeno(1,2,3-cd)pyrene	193-39-5		18.21	Overlapping peak

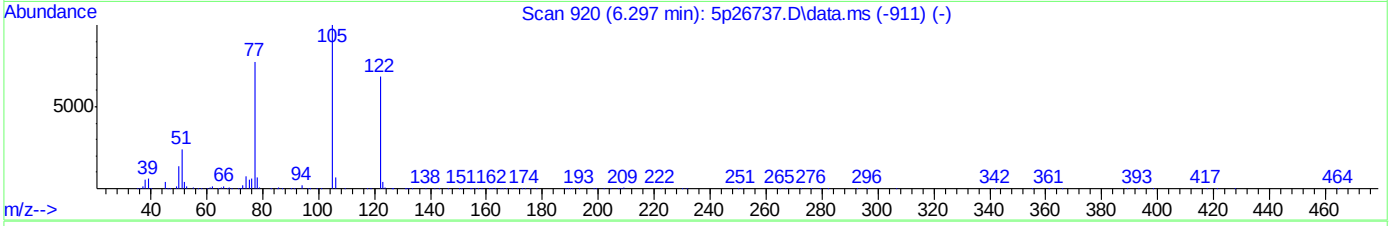
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27902.D
Acq On : 3 May 2016 8:39 am
Operator : ashleyd
Sample : cc1382-25
Misc : op93450,e5p1416
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 12:14:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration







TIC: 5p27902.D\data.ms

(31) Benzoic acid (t)

6.570min (+0.079) 13.35ppm

response 248421

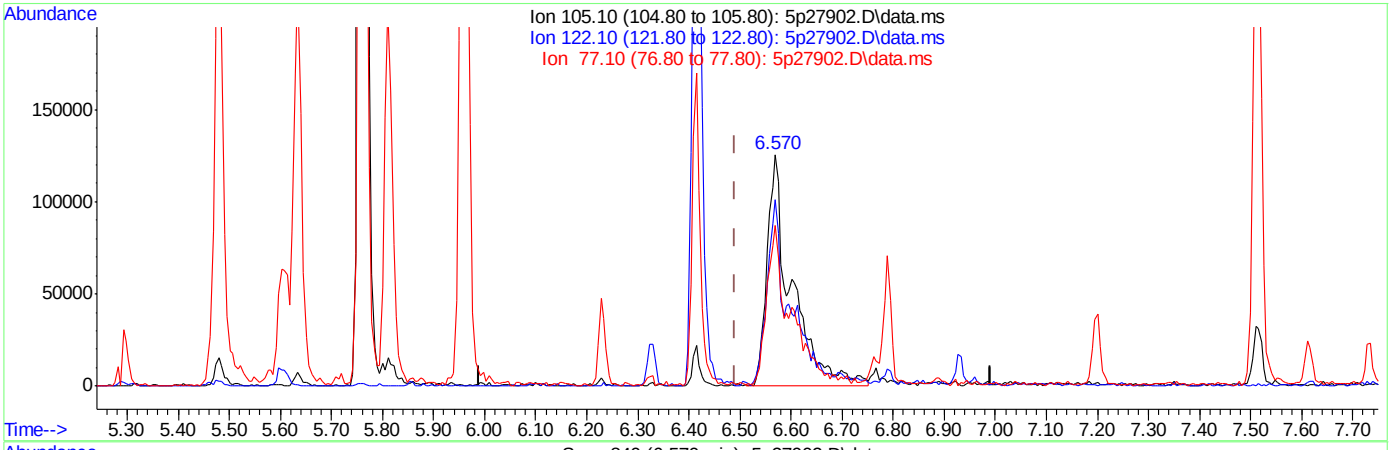
Ion	Exp%	Act%
105.10	100	100
122.10	79.80	77.50
77.10	55.60	65.85
0.00	0.00	0.00

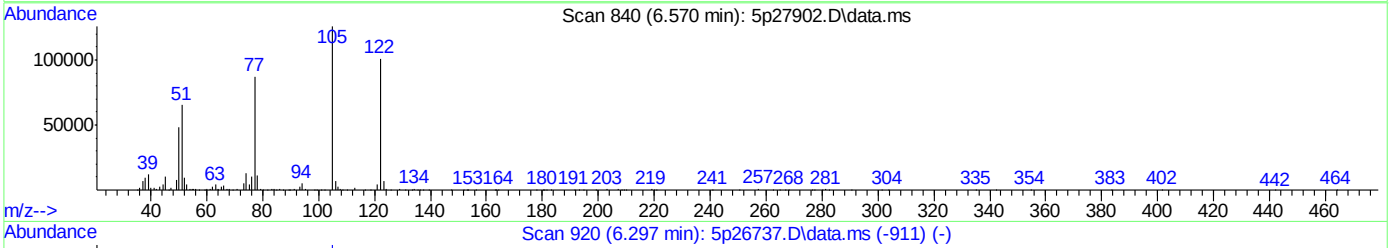
SGS ACCUTEST JC19423

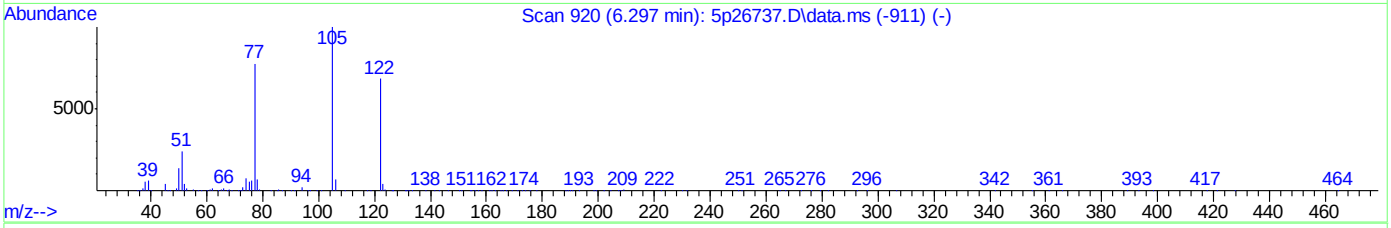
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27902.D
Acq On : 3 May 2016 8:39 am
Operator : ashleyd
Sample : cc1382-25
Misc : op93450,e5p1416
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 12:14:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration







TIC: 5p27902.D\data.ms

(31) Benzoic acid (t)

6.570min (+0.079) 22.54ppm m

response 419453

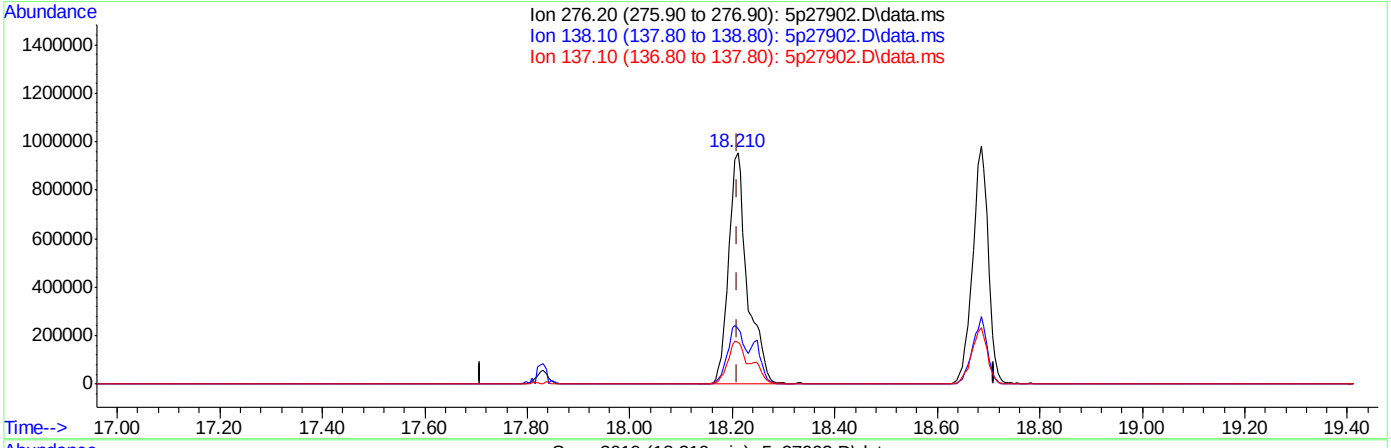
Ion	Exp%	Act%
105.10	100	100
122.10	79.80	80.43
77.10	55.60	69.48
0.00	0.00	0.00

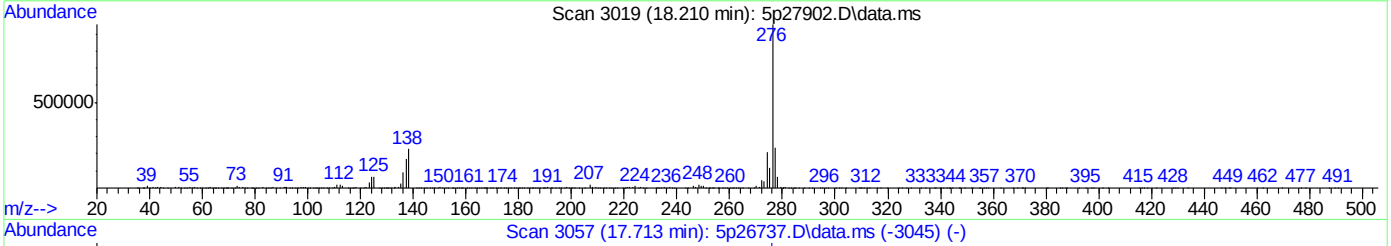
SGS ACCUTEST JC19423

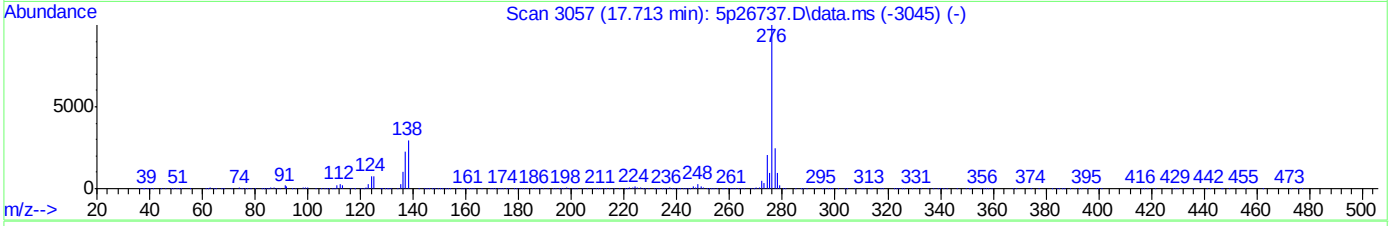
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27902.D
Acq On : 3 May 2016 8:39 am
Operator : ashleyd
Sample : cc1382-25
Misc : op93450,e5p1416
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 12:14:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration







TIC: 5p27902.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.210min (0.000) 34.82ppm

response 2445324

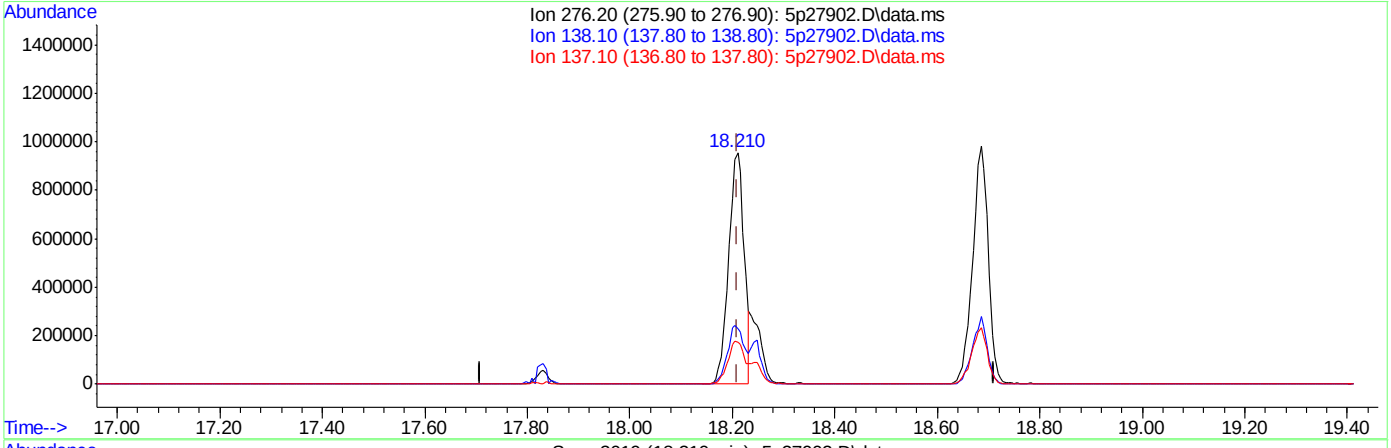
Ion	Exp%	Act%
276.20	100	100
138.10	24.00	23.89
137.10	17.90	17.82
0.00	0.00	0.00

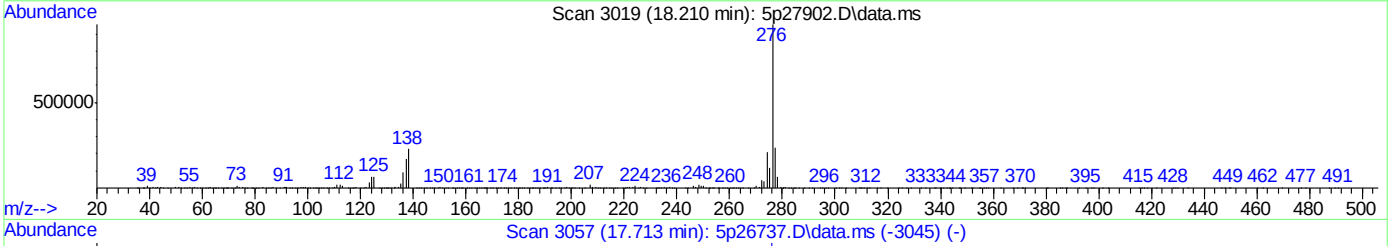
SGS ACCUTEST JC19423

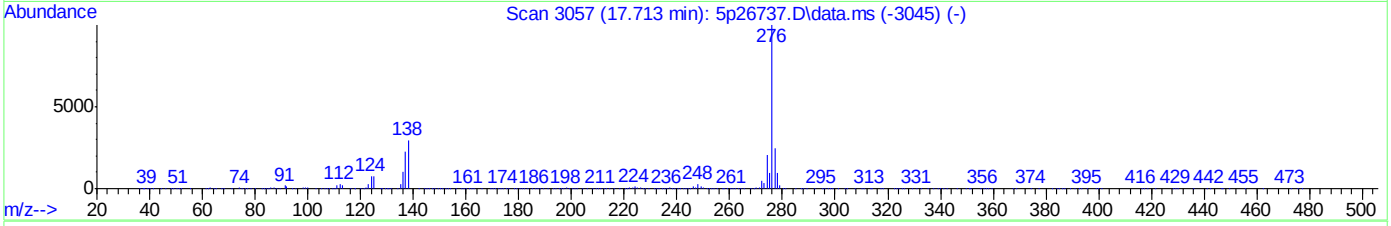
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27902.D
Acq On : 3 May 2016 8:39 am
Operator : ashleyd
Sample : cc1382-25
Misc : op93450,e5p1416
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 12:14:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration







TIC: 5p27902.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.210min (0.000) 28.67ppm m

response 2013803

Ion	Exp%	Act%
276.20	100	100
138.10	24.00	23.96
137.10	17.90	17.94
0.00	0.00	0.00

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27903.D
Acq On : 3 May 2016 9:05 am
Operator : ashleyd
Sample : cc1383-25
Misc : op93450,e5p1416
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 03 12:17:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration

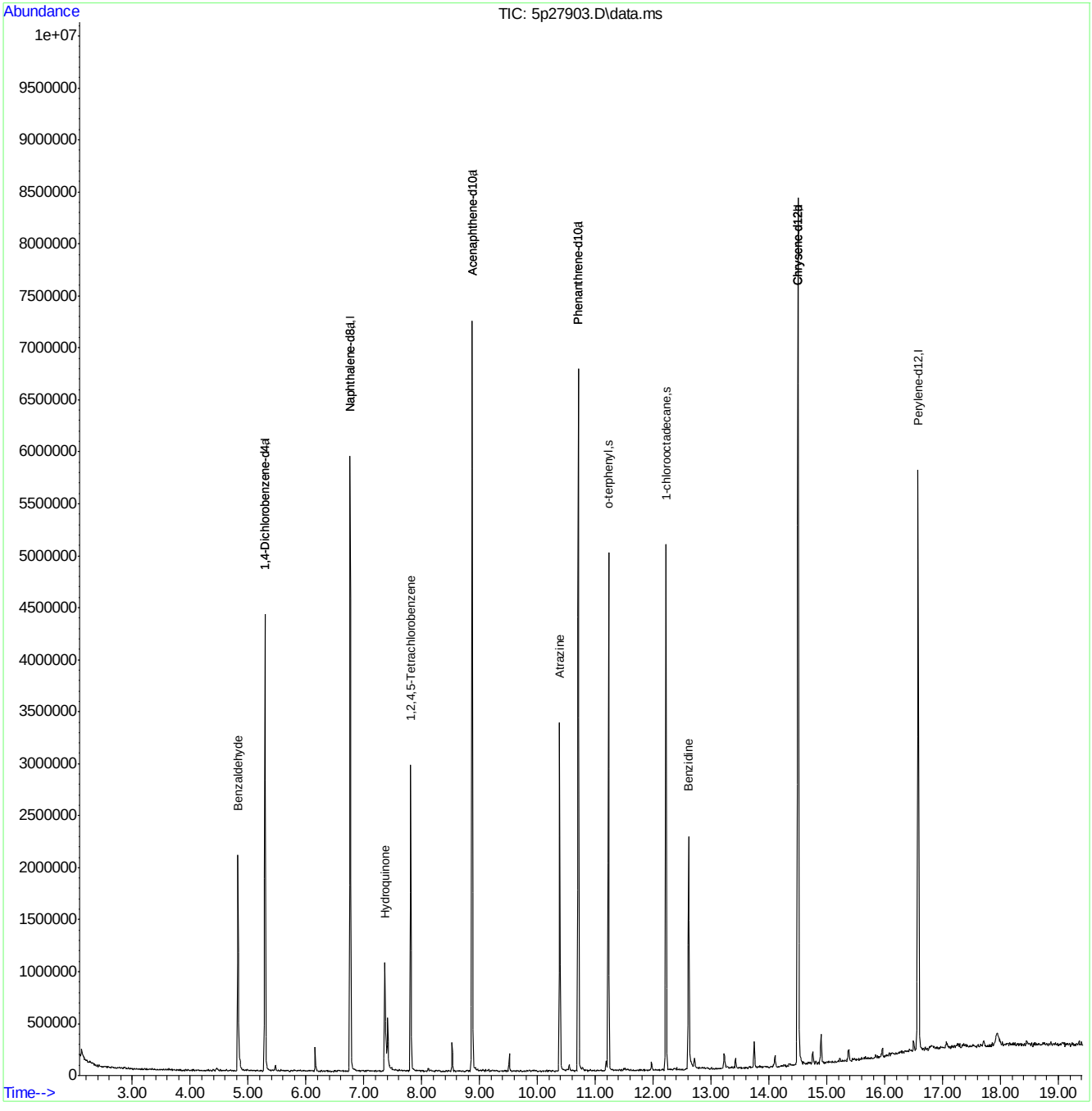
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.293	152	757809	40.00	ppm	0.00
24) Naphthalene-d8	6.762	136	3083890	40.00	ppm	0.00
47) Acenaphthene-d10	8.872	164	1749978	40.00	ppm	0.00
69) Phenanthrene-d10	10.705	188	2886403	40.00	ppm	0.00
83) Chrysene-d12	14.503	240	2834018	40.00	ppm	0.00
92) Perylene-d12	16.576	264	2687116	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.293	152	757809	40.00	ppm	0.00
104) Acenaphthene-d10a	8.872	164	1749978	40.00	ppm	0.00
106) Chrysene-d12a	14.503	240	2834018	40.00	ppm	0.00
109) Phenanthrene-d10a	10.705	188	2886403	40.00	ppm	0.00
112) Naphthalene-d8a	6.762	136	3083890	40.00	ppm	0.00
114) Chrysene-d12b	14.503	240	2834018	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	12.222	57	742367	45.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	91.90%	
110) o-terphenyl	11.228	230	1034936	26.13	ppm	-0.06
Spiked Amount 50.000			Recovery	=	52.26%	
Target Compounds						Qvalue
103) Benzaldehyde	4.823	105	461372	25.07	ppm	90
105) 1,2,4,5-Tetrachloroben...	7.809	216	526646	21.78	ppm	95
107) Benzidine	12.612	184	1070570	28.42	ppm	97
111) Atrazine	10.384	215	191779	25.80	ppm	96
113) Hydroquinone	7.360	110	554070	25.35	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1416\
Data File : 5p27903.D
Acq On : 3 May 2016 9:05 am
Operator : ashleyd
Sample : cc1383-25
Misc : op93450,e5p1416
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 03 12:17:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1382.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue May 03 08:59:50 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	735738	40.00	ppm	0.00
24) Naphthalene-d8	5.81	136	2800726	40.00	ppm	0.00
47) Acenaphthene-d10	7.28	164	1660280	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2724294	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2126198	40.00	ppm	0.00
92) Perylene-d12	17.60	264	2220858	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	735738	40.00	ppm	0.00
112) Naphthalene-d8A	5.81	136	2800726	40.00	ppm	0.00
121) Acenaphthene-d10A	7.28	164	1660280	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2724294	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2126198	40.00	ppm	0.00
155) Perylene-d12A	17.60	264	2220858	40.00	ppm	-0.10
159) 1,4-Dichlorobenzene-d4b	4.88	152	735738	40.00	ppm	0.00
161) Naphthalene-d8b	5.81	136	2800726	40.00	ppm	0.00
163) Acenaphthene-d10b	7.28	164	1660280	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2724294	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2126198	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	735738	40.00	ppm	0.00
171) Naphthalene-d8c	5.81	136	2800726	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2126198	40.00	ppm	0.00
178) Naphthalene-d8a	5.81	136	2800726	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2126198	40.00	ppm	0.25
System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	2415283	97.31	ppm	0.00
Spiked Amount 50.000			Recovery = 194.62%			
8) Phenol-d5	4.61	99	2853578	96.41	ppm	0.00
Spiked Amount 50.000			Recovery = 192.82%			
25) Nitrobenzene-d5	5.28	82	2433835	96.44	ppm	0.00
Spiked Amount 50.000			Recovery = 192.88%			
51) 2-Fluorobiphenyl	6.64	172	4342287	93.76	ppm	0.00
Spiked Amount 50.000			Recovery = 187.52%			
73) 2,4,6-Tribromophenol	8.20	330	517542	95.28	ppm	0.00
Spiked Amount 50.000			Recovery = 190.56%			
85) Terphenyl-d14	12.32	244	4088465	96.46	ppm	0.01
Spiked Amount 50.000			Recovery = 192.92%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.48	88	1018203	95.16	ppm	95
3) Pyridine	2.79	79	2690464	99.72	ppm	99
4) N-Nitrosodimethylamine	2.76	42	937530	90.49	ppm	96
6) Indene	5.07	116	3469537	92.16	ppm	99
7) Cumene	4.29	105	4968732	93.89	ppm	97
9) Phenol	4.62	94	3154982	99.75	ppm	98
10) Aniline	4.64	93	2963325	94.39	ppm	99
11) bis(2-Chloroethyl)ether	4.69	93	2177822	96.37	ppm	96
12) 2-Chlorophenol	4.73	128	2406387	95.55	ppm	99
13) Decane	4.76	43	1963317	95.11	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	2614967	94.91	ppm	99
15) 1,4-Dichlorobenzene	4.89	146	2614476	95.23	ppm	99

(#) = qualifier out of range (m) = manual integration
F156051.D MF6563.M Tue Apr 05 08:42:32 2016 RT1

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16) Benzyl alcohol	4.98	108	1576852	96.65	ppm	92
17) 1,2-Dichlorobenzene	5.01	146	2379933	93.80	ppm	99
18) Acetophenone	5.18	105	2624782	92.97	ppm	99
19) 2-Methylphenol	5.06	108	2053215	94.88	ppm	99
20) 2,2'-oxybis(1-Chloropropan	5.08	121	730006	94.43	ppm	95
21) 3&4-Methylphenol	5.17	108	1977426	92.94	ppm	98
22) n-Nitroso-di-n-propylamine	5.18	70	1528888	96.37	ppm	98
23) Hexachloroethane	5.26	201	817929	95.24	ppm	90
26) Nitrobenzene	5.30	77	2494112	95.44	ppm	99
27) Quinoline	6.07	129	4860825	96.16	ppm	98
28) Isophorone	5.48	82	4117430	95.13	ppm	98
29) 2-Nitrophenol	5.53	139	1242388	94.12	ppm	93
30) 2,4-Dimethylphenol	5.55	107	2185611	97.20	ppm	99
31) Benzoic acid	5.65	105	1881567	95.13	ppm	94
32) bis(2-Chloroethoxy)methane	5.62	93	2547670	95.25	ppm	99
33) 2,4-Dichlorophenol	5.70	162	1959287	94.69	ppm	98
34) 2,6-Dichlorophenol	5.86	162	1731527	92.72	ppm	98
35) 1,3,5-Trichlorobenzene	5.54	180	1853561	91.96	ppm	98
36) 1,2,4-Trichlorobenzene	5.77	180	1938698	93.10	ppm	99
37) 1,2,3-Trichlorobenzene	5.93	180	1890090	92.62	ppm	99
38) Naphthalene	5.82	128	5709757	89.14	ppm	94
39) 4-Chloroaniline	5.86	127	2479911	92.20	ppm	99
40) 2,3-Dichloroaniline	6.56	161	1986572	92.15	ppm	95
41) Caprolactam	6.13	55	1008962	97.53	ppm	98
42) Hexachlorobutadiene	5.91	225	893950	92.65	ppm	99
43) 4-Chloro-3-methylphenol	6.21	107	1978829	95.60	ppm	98
44) 2-Methylnaphthalene	6.34	141	3554755	93.20	ppm	97
45) 1-Methylnaphthalene	6.42	141	3668076	93.09	ppm	98
46) Dimethylnaphthalene	6.87	156	3683476	92.55	ppm	98
48) Hexachlorocyclopentadiene	6.46	237	1893313	184.00	ppm	99
49) 2,4,6-Trichlorophenol	6.56	196	1076514	90.67	ppm	99
50) 2,4,5-Trichlorophenol	6.60	196	1388401	97.07	ppm	97
52) 2-Chloronaphthalene	6.75	162	3997017	93.95	ppm	97
53) Biphenyl	6.72	154	4938769	92.56	ppm	96
54) 2-Nitroaniline	6.83	65	1315818	97.37	ppm	99
55) Dimethylphthalate	6.99	163	4635167	95.00	ppm	99
56) Acenaphthylene	7.13	152	6291490	92.61	ppm	96
57) 2,6-Dinitrotoluene	7.05	165	1104006	96.28	ppm	99
58) 3-Nitroaniline	7.22	138	1387906	97.20	ppm	97
59) Acenaphthene	7.31	153	3993510	93.75	ppm	99
60) 2,4-Dinitrophenol	7.34	184	1363184	199.99	ppm	90
61) 4-Nitrophenol	7.38	109	700188	98.20	ppm	95
62) Dibenzofuran	7.50	168	5523942	94.24	ppm	96
63) 2,4-Dinitrotoluene	7.47	165	1525966	97.18	ppm	99
64) 2,3,4,6-Tetrachlorophenol	7.63	232	1059085	95.49	ppm	98
65) Diethylphthalate	7.75	149	4660438	95.22	ppm	98
66) Fluorene	7.90	166	3950840	92.72	ppm	100
67) 4-Chlorophenyl-phenylether	7.89	204	1689443	92.10	ppm	99
68) 4-Nitroaniline	7.92	138	1402452	98.41	ppm	99

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

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.96	198	920275	98.75	ppm	98
71)	n-Nitrosodiphenylamine	8.04	169	3341482	94.31	ppm	100
72)	1,2-Diphenylhydrazine	8.09	77	4866438	96.01	ppm	100
74)	4-Bromophenyl-phenylether	8.55	248	1119508	94.72	ppm	98
75)	Hexachlorobenzene	8.63	284	1067556	94.24	ppm	96
76)	Pentachlorophenol	8.93	266	1472528	187.28	ppm	97
77)	Phenanthrene	9.26	178	6463150	94.05	ppm	99
78)	Anthracene	9.34	178	6560053	93.30	ppm	98
79)	Carbazole	9.62	167	6335193	94.85	ppm	99
80)	Di-n-butylphthalate	10.33	149	7970957	93.84	ppm	98
81)	Fluoranthene	11.44	202	6809284	94.97	ppm	99
82)	Octadecane	9.11	57	2784718	94.50	ppm	98
84)	Pyrene	11.89	202	7130369	96.69	ppm	99
86)	Butylbenzylphthalate	13.50	149	3749178	98.42	ppm	99
87)	Butyl stearate	13.78	56	2050981	96.66	ppm	97
88)	Benzo[a]anthracene	14.53	228	6154397	97.90	ppm	99
89)	3,3'-Dichlorobenzidine	14.57	252	2263266	99.56	ppm	99
90)	Chrysene	14.62	228	6043538	96.93	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.91	149	5223738	98.04	ppm	99
93)	Di-n-octylphthalate	16.36	149	9141867	94.78	ppm	99
94)	Benzo[b]fluoranthene	16.86	252	6115537	94.36	ppm	98
95)	Benzo[k]fluoranthene	16.93	252	6017663	93.42	ppm	99
96)	Benzo[a]pyrene	17.50	252	5718329	95.17	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.56	276	5381186	96.35	ppm	98
98)	Dibenz(a,h)acridine	19.19	279	4651885	96.37	ppm	98
99)	Dibenz[a,h]anthracene	19.62	278	5247348	95.01	ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.88	256	2602864	95.06	ppm	98
101)	Benzo[g,h,i]perylene	19.99	276	5636779	95.40	ppm	99

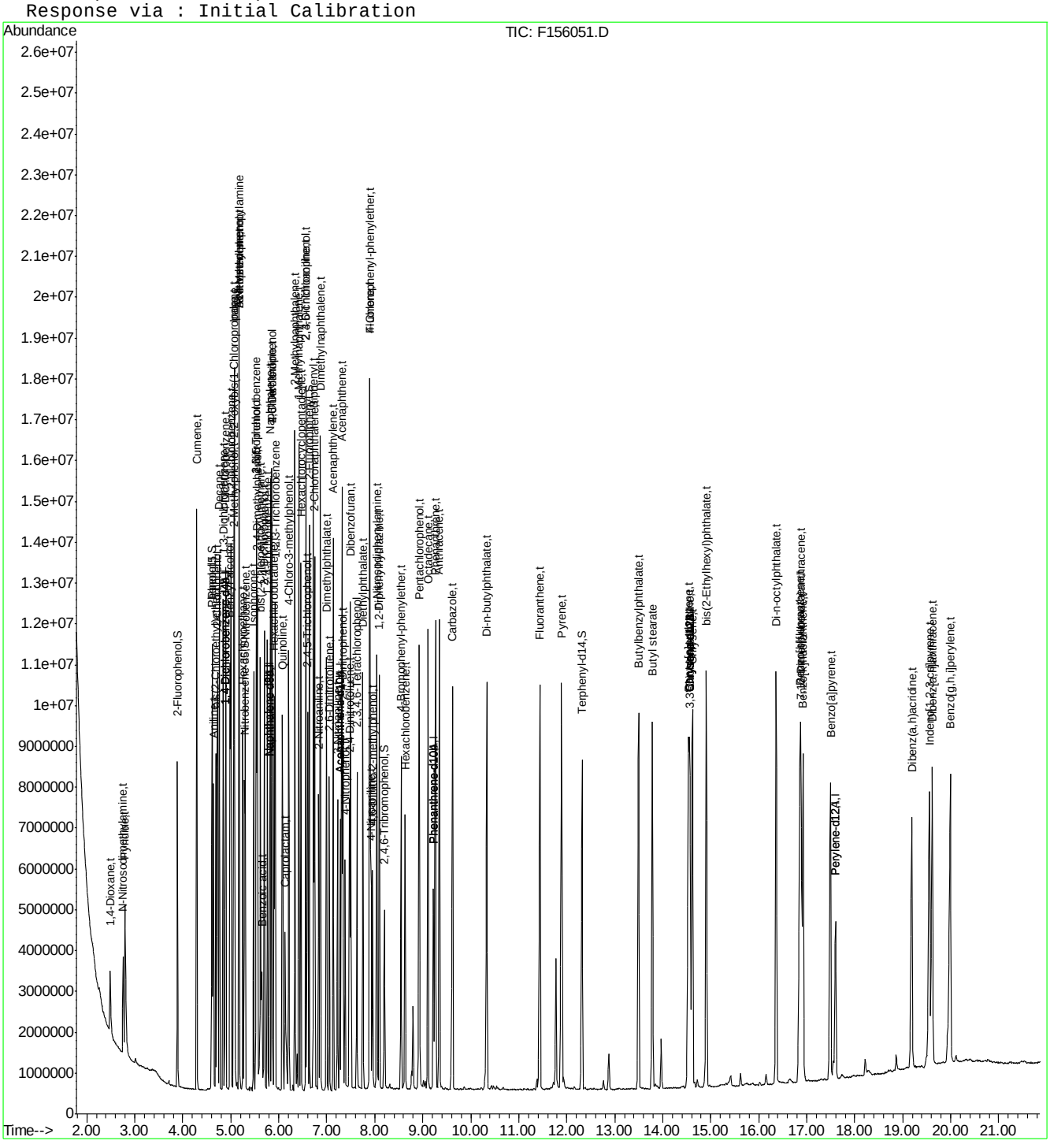
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156051.D MF6563.M Tue Apr 05 08:42:32 2016 RT1

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:42 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	764392	40.00	ppm	0.00
24) Naphthalene-d8	5.81	136	2888824	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1719749	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2826597	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2250416	40.00	ppm	0.00
92) Perylene-d12	17.59	264	2338825	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	764392	40.00	ppm	0.00
112) Naphthalene-d8A	5.81	136	2888824	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1719749	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2826597	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2250416	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	2338825	40.00	ppm	-0.10
159) 1,4-Dichlorobenzene-d4b	4.88	152	764392	40.00	ppm	0.00
161) Naphthalene-d8b	5.81	136	2888824	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1719749	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2826597	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2250416	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	764392	40.00	ppm	0.00
171) Naphthalene-d8c	5.81	136	2888824	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2250416	40.00	ppm	0.00
178) Naphthalene-d8a	5.81	136	2888824	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2250416	40.00	ppm	0.25
System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	2062489	79.98	ppm	0.00
Spiked Amount 50.000			Recovery = 159.96%			
8) Phenol-d5	4.61	99	2462479	80.08	ppm	0.00
Spiked Amount 50.000			Recovery = 160.16%			
25) Nitrobenzene-d5	5.28	82	2060768	79.17	ppm	0.00
Spiked Amount 50.000			Recovery = 158.34%			
51) 2-Fluorobiphenyl	6.63	172	3825541	79.74	ppm	0.00
Spiked Amount 50.000			Recovery = 159.48%			
73) 2,4,6-Tribromophenol	8.20	330	446788	79.28	ppm	0.00
Spiked Amount 50.000			Recovery = 158.56%			
85) Terphenyl-d14	12.31	244	3624247	80.79	ppm	0.00
Spiked Amount 50.000			Recovery = 161.58%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.50	88	879798	79.14	ppm	95
3) Pyridine	2.80	79	2273153	81.09	ppm	100
4) N-Nitrosodimethylamine	2.76	42	790559	73.45	ppm	97
6) Indene	5.07	116	3089321	78.98	ppm	100
7) Cumene	4.29	105	4456078	81.05	ppm	99
9) Phenol	4.62	94	2760273	84.00	ppm	98
10) Aniline	4.64	93	2652544	81.32	ppm	99
11) bis(2-Chloroethyl)ether	4.69	93	1882357	80.17	ppm	97
12) 2-Chlorophenol	4.73	128	2078397	79.43	ppm	98
13) Decane	4.76	43	1701763	79.35	ppm	99
14) 1,3-Dichlorobenzene	4.84	146	2276578	79.53	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	2285665	80.13	ppm	99

(#) = qualifier out of range (m) = manual integration
F156052.D MF6563.M Tue Apr 05 08:44:12 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16)	Benzyl alcohol	4.98	108	1343060	79.24	ppm	94
17)	1,2-Dichlorobenzene	5.01	146	2067345	78.43	ppm	99
18)	Acetophenone	5.18	105	2310235	78.76	ppm	89
19)	2-Methylphenol	5.06	108	1787075	79.49	ppm	99
20)	2,2'-oxybis(1-Chloropropan	5.08	121	632570	78.76	ppm	93
21)	3&4-Methylphenol	5.17	108	1752503	79.28	ppm	99
22)	n-Nitroso-di-n-propylamine	5.18	70	1313164	79.67	ppm	99
23)	Hexachloroethane	5.26	201	713347	79.95	ppm	87
26)	Nitrobenzene	5.30	77	2147480	79.67	ppm	96
27)	Quinoline	6.07	129	4207237	80.69	ppm	99
28)	Isophorone	5.47	82	3560554	79.75	ppm	97
29)	2-Nitrophenol	5.53	139	1072794	78.79	ppm	88
30)	2,4-Dimethylphenol	5.55	107	1867062	80.50	ppm	97
31)	Benzoic acid	5.64	105	1754892	86.02	ppm	96
32)	bis(2-Chloroethoxy)methane	5.62	93	2201059	79.78	ppm	99
33)	2,4-Dichlorophenol	5.70	162	1702377	79.77	ppm	98
34)	2,6-Dichlorophenol	5.86	162	1527098	79.28	ppm	98
35)	1,3,5-Trichlorobenzene	5.54	180	1612386	77.56	ppm	98
36)	1,2,4-Trichlorobenzene	5.76	180	1703831	79.32	ppm	99
37)	1,2,3-Trichlorobenzene	5.93	180	1653422	78.55	ppm	99
38)	Naphthalene	5.82	128	5210846	78.87	ppm	98
39)	4-Chloroaniline	5.86	127	2195979	79.16	ppm	99
40)	2,3-Dichloroaniline	6.56	161	1755819	78.96	ppm	97
41)	Caprolactam	6.13	55	872700	81.79	ppm	98
42)	Hexachlorobutadiene	5.90	225	791240	79.50	ppm	98
43)	4-Chloro-3-methylphenol	6.21	107	1726269	80.86	ppm	100
44)	2-Methylnaphthalene	6.34	141	3113016	79.13	ppm	99
45)	1-Methylnaphthalene	6.42	141	3188993	78.46	ppm	99
46)	Dimethylnaphthalene	6.87	156	3238997	78.90	ppm	99
48)	Hexachlorocyclopentadiene	6.46	237	1690587	158.61	ppm	100
49)	2,4,6-Trichlorophenol	6.56	196	965555	78.51	ppm	98
50)	2,4,5-Trichlorophenol	6.59	196	1215427	82.04	ppm	98
52)	2-Chloronaphthalene	6.74	162	3523183	79.95	ppm	98
53)	Biphenyl	6.72	154	4380247	79.25	ppm	96
54)	2-Nitroaniline	6.83	65	1137580	81.27	ppm	97
55)	Dimethylphthalate	6.99	163	4095162	81.03	ppm	99
56)	Acenaphthylene	7.13	152	5708953	81.13	ppm	98
57)	2,6-Dinitrotoluene	7.05	165	959498	80.78	ppm	99
58)	3-Nitroaniline	7.22	138	1200801	81.19	ppm	98
59)	Acenaphthene	7.31	153	3530348	80.01	ppm	96
60)	2,4-Dinitrophenol	7.33	184	1162305	164.62	ppm	97
61)	4-Nitrophenol	7.38	109	605426	81.98	ppm	97
62)	Dibenzofuran	7.50	168	4864463	80.12	ppm	99
63)	2,4-Dinitrotoluene	7.47	165	1324034	81.41	ppm	98
64)	2,3,4,6-Tetrachlorophenol	7.62	232	937948	81.64	ppm	96
65)	Diethylphthalate	7.75	149	4058066	80.04	ppm	98
66)	Fluorene	7.90	166	3521021	79.77	ppm	99
67)	4-Chlorophenyl-phenylether	7.89	204	1501482	79.02	ppm	98
68)	4-Nitroaniline	7.91	138	1214235	82.26	ppm	99

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

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.95	198	785914	81.28	ppm	98
71)	n-Nitrosodiphenylamine	8.04	169	2958155	80.47	ppm	99
72)	1,2-Diphenylhydrazine	8.09	77	4213708	80.12	ppm	97
74)	4-Bromophenyl-phenylether	8.55	248	994002	81.06	ppm	97
75)	Hexachlorobenzene	8.63	284	945310	80.43	ppm	96
76)	Pentachlorophenol	8.92	266	1300970	159.47	ppm	96
77)	Phenanthrene	9.26	178	5752271	80.67	ppm	100
78)	Anthracene	9.34	178	5824392	79.84	ppm	100
79)	Carbazole	9.62	167	5550966	80.10	ppm	99
80)	Di-n-butylphthalate	10.33	149	7133269	80.93	ppm	99
81)	Fluoranthene	11.44	202	5981934	80.41	ppm	99
82)	Octadecane	9.11	57	2401312	78.54	ppm	97
84)	Pyrene	11.89	202	6287677	80.55	ppm	99
86)	Butylbenzylphthalate	13.49	149	3301200	81.88	ppm	98
87)	Butyl stearate	13.78	56	1791413	79.76	ppm	98
88)	Benzo[a]anthracene	14.53	228	5420519	81.47	ppm	100
89)	3,3'-Dichlorobenzidine	14.56	252	1990392	82.72	ppm	100
90)	Chrysene	14.61	228	5371405	81.40	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.91	149	4525592	80.25	ppm	100
93)	Di-n-octylphthalate	16.36	149	8079322	79.54	ppm	100
94)	Benzo[b]fluoranthene	16.85	252	5463606	80.05	ppm	98
95)	Benzo[k]fluoranthene	16.92	252	5260391	77.55	ppm	98
96)	Benzo[a]pyrene	17.49	252	5062293	80.00	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.55	276	4753743	80.82	ppm	99
98)	Dibenz(a,h)acridine	19.18	279	4103933	80.73	ppm	100
99)	Dibenz[a,h]anthracene	19.61	278	4734117	81.40	ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.88	256	2332244	80.88	ppm	98
101)	Benzo[g,h,i]perylene	19.99	276	5078801	81.62	ppm	99

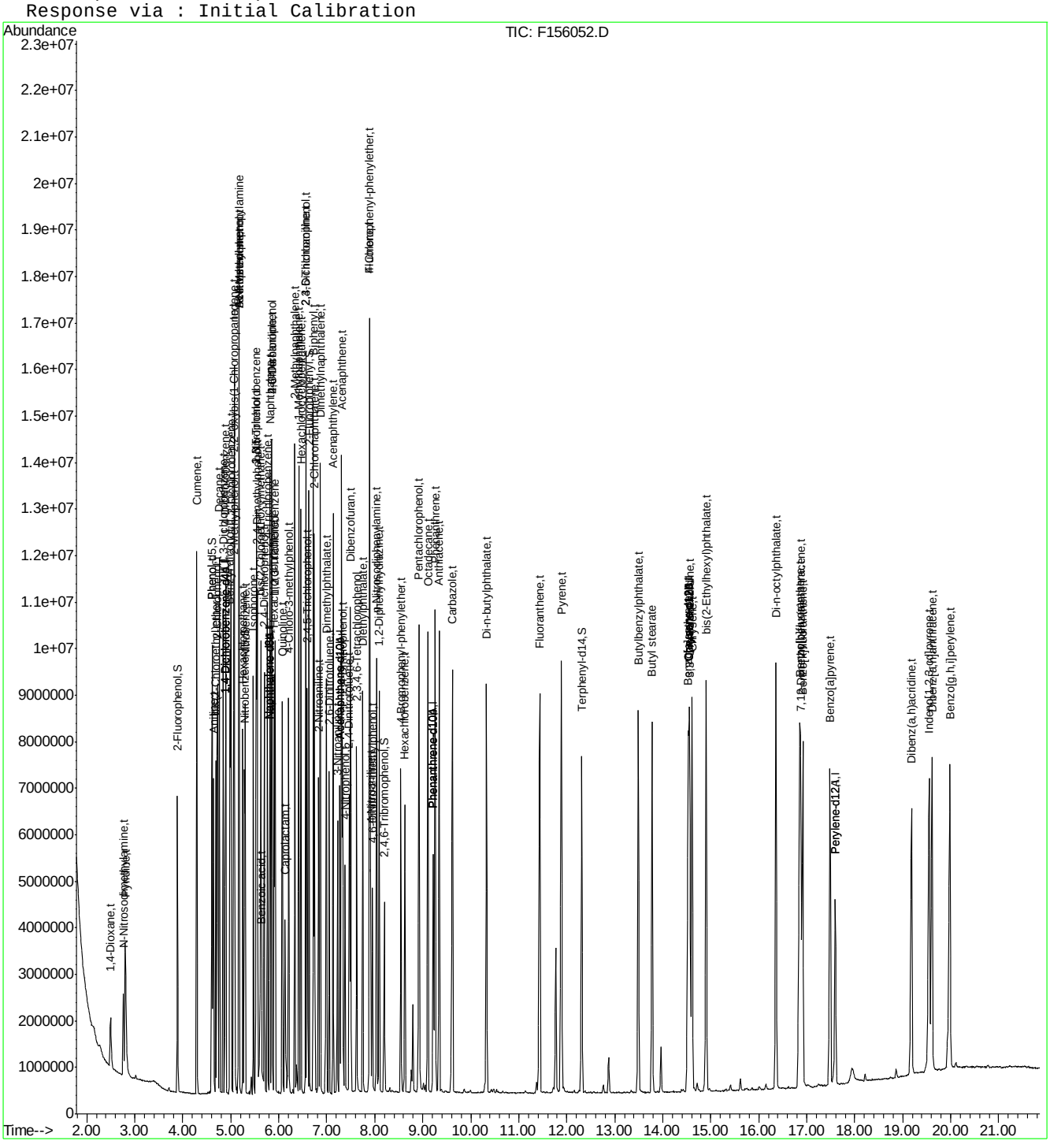
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:44 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:42:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	871983	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3243593	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1949962	40.00 ppm	0.00
69) Phenanthrene-d10	9.22	188	3159351	40.00 ppm	0.00
83) Chrysene-d12	14.55	240	2526174	40.00 ppm	0.00
92) Perylene-d12	17.59	264	2502949	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	871983	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3243593	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1949962	40.00 ppm	0.00
132) Phenanthrene-d10A	9.22	188	3159351	40.00 ppm	0.00
147) Chrysene-d12A	14.55	240	2526174	40.00 ppm	0.00
155) Perylene-d12A	17.59	264	2502949	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	871983	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3243593	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1949962	40.00 ppm	0.00
165) Phenanthrene-d10b	9.22	188	3159351	40.00 ppm	0.00
167) Chrysene-d12b	14.55	240	2526174	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	871983	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3243593	40.00 ppm	0.00
176) Chrysene-d12c	14.55	240	2526174	40.00 ppm	0.00
178) Naphthalene-d8a	5.80	136	3243593	40.00 ppm	0.15
180) Chrysene-d12B	14.55	240	2526174	40.00 ppm	0.24
System Monitoring Compounds					
5) 2-Fluorophenol	3.89	112	1510498	51.35 ppm	0.00
Spiked Amount 50.000			Recovery	= 102.70%	
8) Phenol-d5	4.60	99	1817034	51.78 ppm	0.00
Spiked Amount 50.000			Recovery	= 103.56%	
25) Nitrobenzene-d5	5.28	82	1513443	51.96 ppm	0.00
Spiked Amount 50.000			Recovery	= 103.92%	
51) 2-Fluorobiphenyl	6.63	172	2889575	53.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 106.36%	
73) 2,4,6-Tribromophenol	8.20	330	329797	52.51 ppm	0.00
Spiked Amount 50.000			Recovery	= 105.02%	
85) Terphenyl-d14	12.31	244	2605068	51.56 ppm	0.00
Spiked Amount 50.000			Recovery	= 103.12%	

Target Compounds					Qvalue
2) 1,4-Dioxane	2.49	88	666778	53.27 ppm	95
3) Pyridine	2.79	79	1603285	49.91 ppm	100
4) N-Nitrosodimethylamine	2.76	42	564202	48.48 ppm	99
6) Indene	5.07	116	2405863	54.15 ppm	100
7) Cumene	4.29	105	3327601	52.82 ppm	100
9) Phenol	4.61	94	1896418	49.61 ppm	93
10) Aniline	4.64	93	1964758	52.52 ppm	100
11) bis(2-Chloroethyl)ether	4.69	93	1387751	51.78 ppm	100
12) 2-Chlorophenol	4.72	128	1558857	52.35 ppm	100
13) Decane	4.76	43	1282990	52.59 ppm	100
14) 1,3-Dichlorobenzene	4.84	146	1715893	52.65 ppm	100
15) 1,4-Dichlorobenzene	4.89	146	1704630	52.36 ppm	100

(#) = qualifier out of range (m) = manual integration
F156053.D MF6563.M Tue Apr 05 08:47:21 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
16) Benzyl alcohol	4.98	108	999116	51.84 ppm	100
17) 1,2-Dichlorobenzene	5.01	146	1596681	53.45 ppm	100
18) Acetophenone	5.17	105	1790578	53.79 ppm	100
19) 2-Methylphenol	5.05	108	1349727	52.72 ppm	100
20) 2,2'-oxybis(1-Chloropropan	5.08	121	483612	53.06 ppm	100
21) 3&4-Methylphenol	5.17	108	1347184	53.62 ppm	100
22) n-Nitroso-di-n-propylamine	5.17	70	974183	51.88 ppm	100
23) Hexachloroethane	5.25	201	533108	52.39 ppm	100
26) Nitrobenzene	5.29	77	1579979	52.28 ppm	100
27) Quinoline	6.07	129	3039806	51.77 ppm	100
28) Isophorone	5.47	82	2628484	52.49 ppm	100
29) 2-Nitrophenol	5.52	139	809389	53.21 ppm	100
30) 2,4-Dimethylphenol	5.55	107	1338514	51.29 ppm	100
31) Benzoic acid	5.63	105	1201010	51.15 ppm	100
32) bis(2-Chloroethoxy)methane	5.62	93	1622282	52.42 ppm	100
33) 2,4-Dichlorophenol	5.70	162	1261730	52.70 ppm	100
34) 2,6-Dichlorophenol	5.86	162	1160131	53.80 ppm	100
35) 1,3,5-Trichlorobenzene	5.54	180	1261006	54.58 ppm	100
36) 1,2,4-Trichlorobenzene	5.76	180	1289139	53.60 ppm	100
37) 1,2,3-Trichlorobenzene	5.92	180	1268943	54.02 ppm	100
38) Naphthalene	5.82	128	4111706	55.69 ppm	100
39) 4-Chloroaniline	5.85	127	1678939	54.09 ppm	100
40) 2,3-Dichloroaniline	6.56	161	1346445	54.16 ppm	100
41) Caprolactam	6.12	55	613796	50.85 ppm	100
42) Hexachlorobutadiene	5.90	225	599845	53.79 ppm	100
43) 4-Chloro-3-methylphenol	6.20	107	1251313	52.01 ppm	100
44) 2-Methylnaphthalene	6.33	141	2358934	53.60 ppm	100
45) 1-Methylnaphthalene	6.41	141	2439588	53.80 ppm	100
46) Dimethylnaphthalene	6.86	156	2476399	53.97 ppm	100
48) Hexachlorocyclopentadiene	6.46	237	1305240	108.31 ppm	100
49) 2,4,6-Trichlorophenol	6.56	196	762268	55.01 ppm	100
50) 2,4,5-Trichlorophenol	6.59	196	869436	51.31 ppm	100
52) 2-Chloronaphthalene	6.74	162	2649514	53.04 ppm	100
53) Biphenyl	6.72	154	3366639	53.89 ppm	100
54) 2-Nitroaniline	6.82	65	814469	51.05 ppm	100
55) Dimethylphthalate	6.99	163	3008660	52.28 ppm	100
56) Acenaphthylene	7.13	152	4284263	53.44 ppm	100
57) 2,6-Dinitrotoluene	7.05	165	698403	51.69 ppm	100
58) 3-Nitroaniline	7.22	138	861937	51.14 ppm	100
59) Acenaphthene	7.31	153	2658055	53.13 ppm	100
60) 2,4-Dinitrophenol	7.32	184	800604	99.05 ppm	100
61) 4-Nitrophenol	7.37	109	412116	48.92 ppm	100
62) Dibenzofuran	7.49	168	3640302	52.85 ppm	100
63) 2,4-Dinitrotoluene	7.46	165	948033	51.11 ppm	100
64) 2,3,4,6-Tetrachlorophenol	7.62	232	680751	51.90 ppm	100
65) Diethylphthalate	7.75	149	3011705	52.38 ppm	100
66) Fluorene	7.89	166	2684681	53.69 ppm	100
67) 4-Chlorophenyl-phenylether	7.89	204	1162378	54.17 ppm	100
68) 4-Nitroaniline	7.91	138	850105	50.32 ppm	100

(#) = qualifier out of range (m) = manual integration
F156053.D MF6563.M Tue Apr 05 08:47:21 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

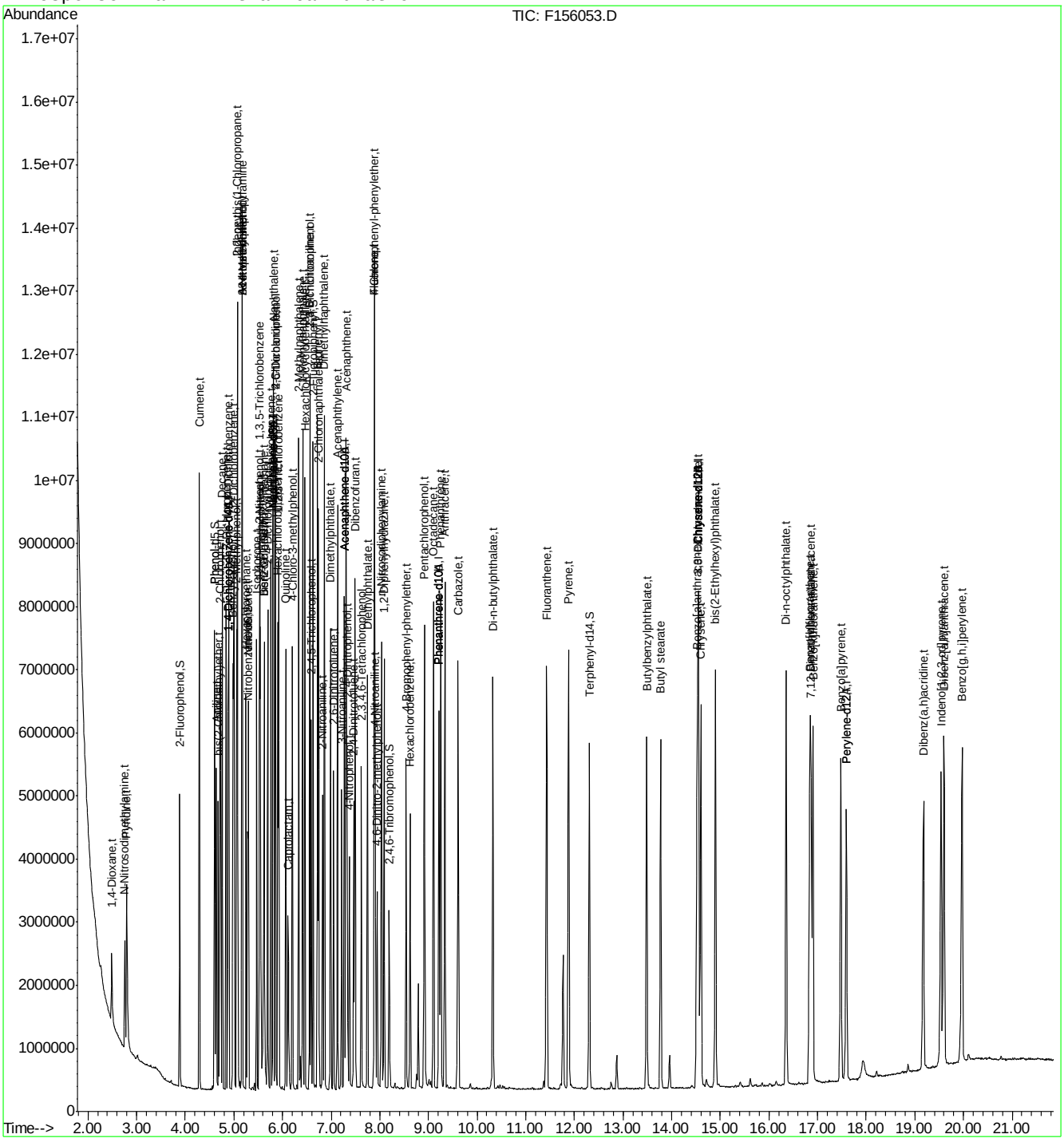
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.94	198	547100	50.35	ppm	100
71)	n-Nitrosodiphenylamine	8.04	169	2171178	52.74	ppm	100
72)	1,2-Diphenylhydrazine	8.09	77	3056349	51.97	ppm	100
74)	4-Bromophenyl-phenylether	8.54	248	721480	52.41	ppm	100
75)	Hexachlorobenzene	8.63	284	694643	52.78	ppm	100
76)	Pentachlorophenol	8.92	266	969858	106.48	ppm	100
77)	Phenanthrene	9.25	178	4222158	52.83	ppm	100
78)	Anthracene	9.34	178	4326567	53.10	ppm	100
79)	Carbazole	9.61	167	4045902	52.22	ppm	100
80)	Di-n-butylphthalate	10.33	149	5229224	52.88	ppm	100
81)	Fluoranthene	11.43	202	4365246	52.41	ppm	100
82)	Octadecane	9.10	57	1802615	53.07	ppm	100
84)	Pyrene	11.88	202	4516342	51.43	ppm	100
86)	Butylbenzylphthalate	13.49	149	2294077	50.29	ppm	100
87)	Butyl stearate	13.77	56	1294518	51.40	ppm	100
88)	Benzo[a]anthracene	14.53	228	3822200	50.86	ppm	100
89)	3,3'-Dichlorobenzidine	14.56	252	1356731	49.67	ppm	100
90)	Chrysene	14.61	228	3796706	50.96	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.90	149	3222419	50.85	ppm	100
93)	Di-n-octylphthalate	16.35	149	5703091	52.56	ppm	100
94)	Benzo[b]fluoranthene	16.84	252	3787237	51.78	ppm	98
95)	Benzo[k]fluoranthene	16.91	252	3710262	52.01	ppm	98
96)	Benzo[a]pyrene	17.48	252	3518005	52.01	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.54	276	3276791	51.83	ppm	100
98)	Dibenz(a,h)acridine	19.18	279	2819743	51.70	ppm	100
99)	Dibenz[a,h]anthracene	19.60	278	3172655	50.59	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.87	256	1624656	52.42	ppm	100
101)	Benzo[g,h,i]perylene	19.98	276	3454887	51.57	ppm	100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:47 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	863972	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3172306	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1883448	40.00 ppm	0.00
69) Phenanthrene-d10	9.22	188	3035235	40.00 ppm	0.00
83) Chrysene-d12	14.54	240	2628411	40.00 ppm	0.00
92) Perylene-d12	17.59	264	2496395	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	863972	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3172306	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1883448	40.00 ppm	0.00
132) Phenanthrene-d10A	9.22	188	3035235	40.00 ppm	0.00
147) Chrysene-d12A	14.54	240	2628411	40.00 ppm	0.00
155) Perylene-d12A	17.59	264	2496395	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	863972	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3172306	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1883448	40.00 ppm	0.00
165) Phenanthrene-d10b	9.22	188	3035235	40.00 ppm	0.00
167) Chrysene-d12b	14.54	240	2628411	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	863972	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3172306	40.00 ppm	0.00
176) Chrysene-d12c	14.54	240	2628411	40.00 ppm	0.00
178) Naphthalene-d8a	5.80	136	3172306	40.00 ppm	0.15
180) Chrysene-d12B	14.54	240	2628411	40.00 ppm	0.24

System Monitoring Compounds					
5) 2-Fluorophenol	3.88	112	752440	25.82 ppm	0.00
Spiked Amount 50.000			Recovery = 51.64%		
8) Phenol-d5	4.60	99	912194	26.24 ppm	0.00
Spiked Amount 50.000			Recovery = 52.48%		
25) Nitrobenzene-d5	5.28	82	742392	26.06 ppm	0.00
Spiked Amount 50.000			Recovery = 52.12%		
51) 2-Fluorobiphenyl	6.63	172	1516539	28.90 ppm	0.00
Spiked Amount 50.000			Recovery = 57.80%		
73) 2,4,6-Tribromophenol	8.19	330	156688	25.97 ppm	0.00
Spiked Amount 50.000			Recovery = 51.94%		
85) Terphenyl-d14	12.30	244	1350753	25.70 ppm	0.00
Spiked Amount 50.000			Recovery = 51.40%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.49	88	300998	24.02 ppm	92
3) Pyridine	2.79	79	803322	25.24 ppm	97
4) N-Nitrosodimethylamine	2.76	42	267516	24.06 ppm	91
6) Indene	5.07	116	1283677	29.16 ppm	99
7) Cumene	4.29	105	1729204	27.70 ppm	99
9) Phenol	4.61	94	960339	25.36 ppm	88
10) Aniline	4.63	93	1040023	28.06 ppm	99
11) bis(2-Chloroethyl)ether	4.68	93	693596	26.12 ppm	98
12) 2-Chlorophenol	4.72	128	794091	26.91 ppm	97
13) Decane	4.76	43	685617	28.36 ppm	98
14) 1,3-Dichlorobenzene	4.84	146	888469	27.51 ppm	98
15) 1,4-Dichlorobenzene	4.89	146	886953	27.50 ppm	97

(#) = qualifier out of range (m) = manual integration
F156054.D MF6563.M Tue Apr 05 08:55:03 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16) Benzyl alcohol	4.97	108	502295	26.30	ppm	98
17) 1,2-Dichlorobenzene	5.01	146	840153	28.38	ppm	98
18) Acetophenone	5.17	105	971192	29.45	ppm	89
19) 2-Methylphenol	5.05	108	686123	27.05	ppm	97
20) 2,2'-oxybis(1-Chloropropan	5.08	121	246770	27.32	ppm	99
21) 3&4-Methylphenol	5.16	108	709224	28.49	ppm	99
22) n-Nitroso-di-n-propylamine	5.17	70	507230	27.26	ppm	99
23) Hexachloroethane	5.25	201	272875	27.06	ppm	96
26) Nitrobenzene	5.29	77	787089	26.64	ppm	95
27) Quinoline	6.06	129	1538109	26.79	ppm	98
28) Isophorone	5.47	82	1342384	27.41	ppm	98
29) 2-Nitrophenol	5.52	139	416350	27.99	ppm	96
30) 2,4-Dimethylphenol	5.55	107	634238	24.85	ppm	98
31) Benzoic acid	5.61	105	560004	24.39	ppm	94
32) bis(2-Chloroethoxy)methane	5.62	93	828882	27.39	ppm	99
33) 2,4-Dichlorophenol	5.70	162	644033	27.51	ppm	97
34) 2,6-Dichlorophenol	5.86	162	612096	29.02	ppm	98
35) 1,3,5-Trichlorobenzene	5.54	180	673723	29.81	ppm	99
36) 1,2,4-Trichlorobenzene	5.76	180	660441	28.08	ppm	98
37) 1,2,3-Trichlorobenzene	5.92	180	642498	27.96	ppm	100
38) Naphthalene	5.82	128	2197280	30.43	ppm	98
39) 4-Chloroaniline	5.85	127	899321	29.62	ppm	97
40) 2,3-Dichloroaniline	6.56	161	746079	30.69	ppm	99
41) Caprolactam	6.10	55	301563	25.55	ppm	98
42) Hexachlorobutadiene	5.90	225	317763	29.13	ppm	99
43) 4-Chloro-3-methylphenol	6.20	107	625695	26.59	ppm	98
44) 2-Methylnaphthalene	6.33	141	1231532	28.61	ppm	99
45) 1-Methylnaphthalene	6.41	141	1267730	28.59	ppm	99
46) Dimethylnaphthalene	6.86	156	1299211	28.95	ppm	98
48) Hexachlorocyclopentadiene	6.46	237	688873	59.18	ppm	99
49) 2,4,6-Trichlorophenol	6.56	196	398885	29.80	ppm	97
50) 2,4,5-Trichlorophenol	6.59	196	444742	27.13	ppm	99
52) 2-Chloronaphthalene	6.74	162	1358812	28.16	ppm	97
53) Biphenyl	6.72	154	1783507	29.56	ppm	99
54) 2-Nitroaniline	6.82	65	394873	25.62	ppm	91
55) Dimethylphthalate	6.98	163	1540455	27.71	ppm	99
56) Acenaphthylene	7.13	152	2244918	28.99	ppm	99
57) 2,6-Dinitrotoluene	7.05	165	338348	25.93	ppm	91
58) 3-Nitroaniline	7.21	138	432182	26.55	ppm	97
59) Acenaphthene	7.30	153	1404418	29.06	ppm	99
60) 2,4-Dinitrophenol	7.32	184	362949	46.49	ppm	85
61) 4-Nitrophenol	7.37	109	201885	25.03	ppm	97
62) Dibenzofuran	7.49	168	1900959	28.57	ppm	97
63) 2,4-Dinitrotoluene	7.46	165	472912	26.39	ppm	98
64) 2,3,4,6-Tetrachlorophenol	7.62	232	342001	27.00	ppm	97
65) Diethylphthalate	7.74	149	1515673	27.29	ppm	99
66) Fluorene	7.89	166	1468152	30.40	ppm	100
67) 4-Chlorophenyl-phenylether	7.89	204	635326	30.66	ppm	98
68) 4-Nitroaniline	7.90	138	421135	25.81	ppm	98

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

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.94	198	246086	23.58	ppm	97
71)	n-Nitrosodiphenylamine	8.03	169	1095544	27.70	ppm	98
72)	1,2-Diphenylhydrazine	8.09	77	1514394	26.80	ppm	97
74)	4-Bromophenyl-phenylether	8.54	248	374041	28.28	ppm	96
75)	Hexachlorobenzene	8.62	284	344952	27.28	ppm	95
76)	Pentachlorophenol	8.91	266	505532	57.77	ppm	98
77)	Phenanthrene	9.25	178	2198868	28.64	ppm	98
78)	Anthracene	9.33	178	2208822	28.27	ppm	100
79)	Carbazole	9.61	167	2104374	28.33	ppm	98
80)	Di-n-butylphthalate	10.32	149	2655403	27.95	ppm	100
81)	Fluoranthene	11.43	202	2205706	27.57	ppm	100
82)	Octadecane	9.10	57	918139	28.14	ppm	99
84)	Pyrene	11.88	202	2354708	25.79	ppm	99
86)	Butylbenzylphthalate	13.48	149	1160576	24.47	ppm	99
87)	Butyl stearate	13.77	56	647006	24.74	ppm	98
88)	Benzo[a]anthracene	14.52	228	1967547	25.14	ppm	99
89)	3,3'-Dichlorobenzidine	14.55	252	702116	24.70	ppm	98
90)	Chrysene	14.60	228	1973288	25.50	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.89	149	1641094	24.90	ppm	100
93)	Di-n-octylphthalate	16.35	149	2891187	26.74	ppm	100
94)	Benzo[b]fluoranthene	16.83	252	1957203	27.04	ppm	99
95)	Benzo[k]fluoranthene	16.89	252	1936392	27.42	ppm	98
96)	Benzo[a]pyrene	17.47	252	1798129	26.71	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.53	276	1680946	26.64	ppm	96
98)	Dibenz(a,h)acridine	19.17	279	1452033	26.68	ppm	99
99)	Dibenz[a,h]anthracene	19.59	278	1627629	26.33	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.86	256	823820	26.64	ppm	99
101)	Benzo[g,h,i]perylene	19.96	276	1813089	27.19	ppm	98

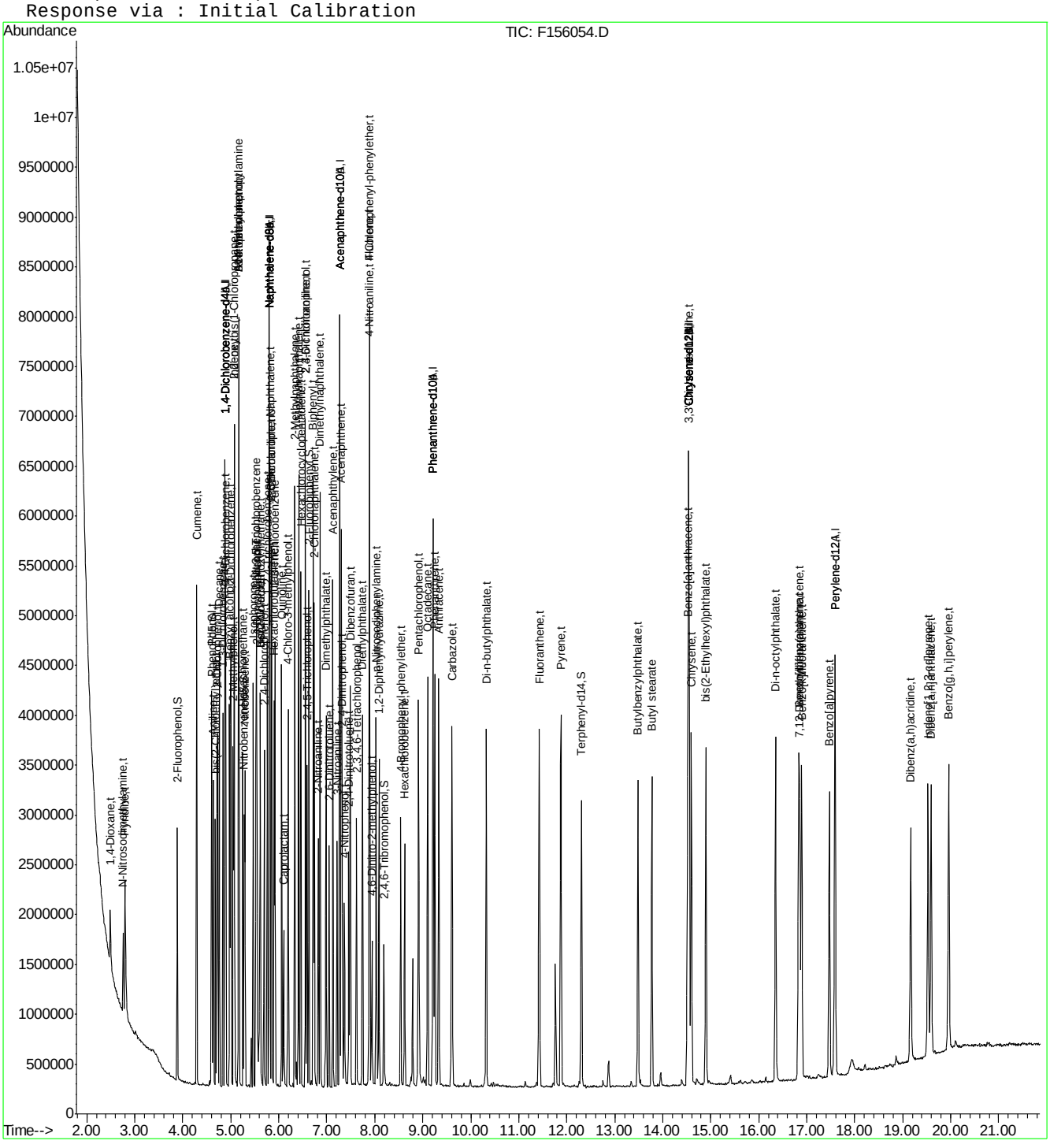
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:54 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	905594	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3313258	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1977563	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3195086	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2841277	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2625091	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	905594	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3313258	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1977563	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3195086	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2841277	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2625091	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	905594	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3313258	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1977563	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3195086	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2841277	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	905594	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3313258	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2841277	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3313258	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2841277	40.00	ppm	0.23
System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	318354	10.42	ppm	0.00
Spiked Amount 50.000			Recovery = 20.84%			
8) Phenol-d5	4.60	99	398798	10.95	ppm	0.00
Spiked Amount 50.000			Recovery = 21.90%			
25) Nitrobenzene-d5	5.28	82	320247	10.73	ppm	0.00
Spiked Amount 50.000			Recovery = 21.46%			
51) 2-Fluorobiphenyl	6.63	172	673076	12.20	ppm	0.00
Spiked Amount 50.000			Recovery = 24.40%			
73) 2,4,6-Tribromophenol	8.19	330	66985	10.52	ppm	0.00
Spiked Amount 50.000			Recovery = 21.04%			
85) Terphenyl-d14	12.30	244	580883	10.26	ppm	0.00
Spiked Amount 50.000			Recovery = 20.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	156183	11.86	ppm	97
3) Pyridine	2.80	79	349091	10.51	ppm	99
4) N-Nitrosodimethylamine	2.76	42	113073	8.87	ppm	97
6) Indene	5.07	116	570276	12.31	ppm	100
7) Cumene	4.29	105	746757	11.46	ppm	99
9) Phenol	4.61	94	411742	10.58	ppm	94
10) Aniline	4.63	93	477431	12.36	ppm	99
11) bis(2-Chloroethyl)ether	4.68	93	302414	10.87	ppm	98
12) 2-Chlorophenol	4.72	128	344498	11.11	ppm	96
13) Decane	4.76	43	298455	11.75	ppm	97
14) 1,3-Dichlorobenzene	4.84	146	391842	11.55	ppm	97
15) 1,4-Dichlorobenzene	4.89	146	393136	11.63	ppm	99

(#) = qualifier out of range (m) = manual integration
F156055.D MF6563.M Tue Apr 05 08:56:35 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.97	108	222777	11.09	ppm		97
17)	1,2-Dichlorobenzene	5.00	146	367366	11.76	ppm		98
18)	Acetophenone	5.17	105	439501	12.65	ppm		95
19)	2-Methylphenol	5.05	108	299562	11.25	ppm		99
20)	2,2'-oxybis(1-Chloropropan	5.08	121	107662	11.31	ppm		96
21)	3&4-Methylphenol	5.16	108	316195	12.07	ppm		99
22)	n-Nitroso-di-n-propylamine	5.17	70	227077	11.63	ppm		98
23)	Hexachloroethane	5.25	201	116924	11.06	ppm		95
26)	Nitrobenzene	5.29	77	340147	11.00	ppm		92
27)	Quinoline	6.06	129	667853	11.17	ppm		99
28)	Isophorone	5.47	82	580700	11.34	ppm		100
29)	2-Nitrophenol	5.52	139	179684	11.51	ppm		92
30)	2,4-Dimethylphenol	5.55	107	267013	10.04	ppm		96
31)	Benzoic acid	5.59	105	225890	9.65	ppm	#	74
32)	bis(2-Chloroethoxy)methane	5.62	93	364338	11.51	ppm		98
33)	2,4-Dichlorophenol	5.69	162	279178	11.41	ppm		97
34)	2,6-Dichlorophenol	5.86	162	271818	12.30	ppm		96
35)	1,3,5-Trichlorobenzene	5.54	180	299476	12.56	ppm		97
36)	1,2,4-Trichlorobenzene	5.76	180	289266	11.74	ppm		99
37)	1,2,3-Trichlorobenzene	5.92	180	280336	11.61	ppm		99
38)	Naphthalene	5.82	128	990453	13.07	ppm		98
39)	4-Chloroaniline	5.85	127	411341	12.93	ppm		96
40)	2,3-Dichloroaniline	6.56	161	341826	13.40	ppm		97
41)	Caprolactam	6.09	55	128773	10.52	ppm		95
42)	Hexachlorobutadiene	5.90	225	137961	12.09	ppm		97
43)	4-Chloro-3-methylphenol	6.19	107	271558	11.09	ppm		99
44)	2-Methylnaphthalene	6.33	141	549250	12.17	ppm		98
45)	1-Methylnaphthalene	6.41	141	562852	12.07	ppm		98
46)	Dimethylnaphthalene	6.86	156	568349	12.07	ppm		97
48)	Hexachlorocyclopentadiene	6.46	237	295404	24.10	ppm		100
49)	2,4,6-Trichlorophenol	6.56	196	183214	12.96	ppm		97
50)	2,4,5-Trichlorophenol	6.58	196	189673	11.13	ppm		98
52)	2-Chloronaphthalene	6.74	162	606809	11.97	ppm		99
53)	Biphenyl	6.72	154	783724	12.33	ppm		98
54)	2-Nitroaniline	6.82	65	168174	10.45	ppm		93
55)	Dimethylphthalate	6.98	163	669711	11.52	ppm		99
56)	Acenaphthylene	7.13	152	984619	12.17	ppm		98
57)	2,6-Dinitrotoluene	7.04	165	144184	10.56	ppm		99
58)	3-Nitroaniline	7.21	138	181727	10.69	ppm		93
59)	Acenaphthene	7.30	153	609405	12.01	ppm		99
60)	2,4-Dinitrophenol	7.32	184	130327	16.05	ppm		78
61)	4-Nitrophenol	7.36	109	80472	9.48	ppm		94
62)	Dibenzofuran	7.49	168	843891	12.09	ppm		98
63)	2,4-Dinitrotoluene	7.46	165	195395	10.45	ppm		97
64)	2,3,4,6-Tetrachlorophenol	7.62	232	145578	11.02	ppm		97
65)	Diethylphthalate	7.74	149	649860	11.15	ppm		98
66)	Fluorene	7.89	166	666627	13.13	ppm		97
67)	4-Chlorophenyl-phenylether	7.89	204	292638	13.39	ppm		95
68)	4-Nitroaniline	7.89	138	183728	10.82	ppm		96

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

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	92062	8.42	ppm	96
71)	n-Nitrosodiphenylamine	8.03	169	476719	11.47	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	657054	11.05	ppm	98
74)	4-Bromophenyl-phenylether	8.54	248	158586	11.44	ppm	96
75)	Hexachlorobenzene	8.62	284	153731	11.57	ppm	97
76)	Pentachlorophenol	8.91	266	205675	22.30	ppm	95
77)	Phenanthrene	9.25	178	978306	12.14	ppm	98
78)	Anthracene	9.33	178	967667	11.73	ppm	99
79)	Carbazole	9.61	167	912387	11.65	ppm	99
80)	Di-n-butylphthalate	10.32	149	1128842	11.33	ppm	100
81)	Fluoranthene	11.42	202	946511	11.26	ppm	100
82)	Octadecane	9.10	57	398210	11.52	ppm	98
84)	Pyrene	11.87	202	1015323	10.30	ppm	99
86)	Butylbenzylphthalate	13.48	149	485601	9.54	ppm	97
87)	Butyl stearate	13.77	56	271564	9.58	ppm	99
88)	Benzo[a]anthracene	14.52	228	842177	10.03	ppm	99
89)	3,3'-Dichlorobenzidine	14.55	252	303885	10.00	ppm	98
90)	Chrysene	14.59	228	857826	10.30	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.89	149	683429	9.60	ppm	97
93)	Di-n-octylphthalate	16.35	149	1196588	10.50	ppm	99
94)	Benzo[b]fluoranthene	16.83	252	846094	11.04	ppm	98
95)	Benzo[k]fluoranthene	16.89	252	829903	10.90	ppm	99
96)	Benzo[a]pyrene	17.46	252	754900	10.63	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.52	276	702662	10.64	ppm	94
98)	Dibenz(a,h)acridine	19.16	279	610277	10.70	ppm	100
99)	Dibenz[a,h]anthracene	19.58	278	696447	10.67	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.84	256	325014	10.04	ppm	99
101)	Benzo[g,h,i]perylene	19.95	276	764066	10.94	ppm	97

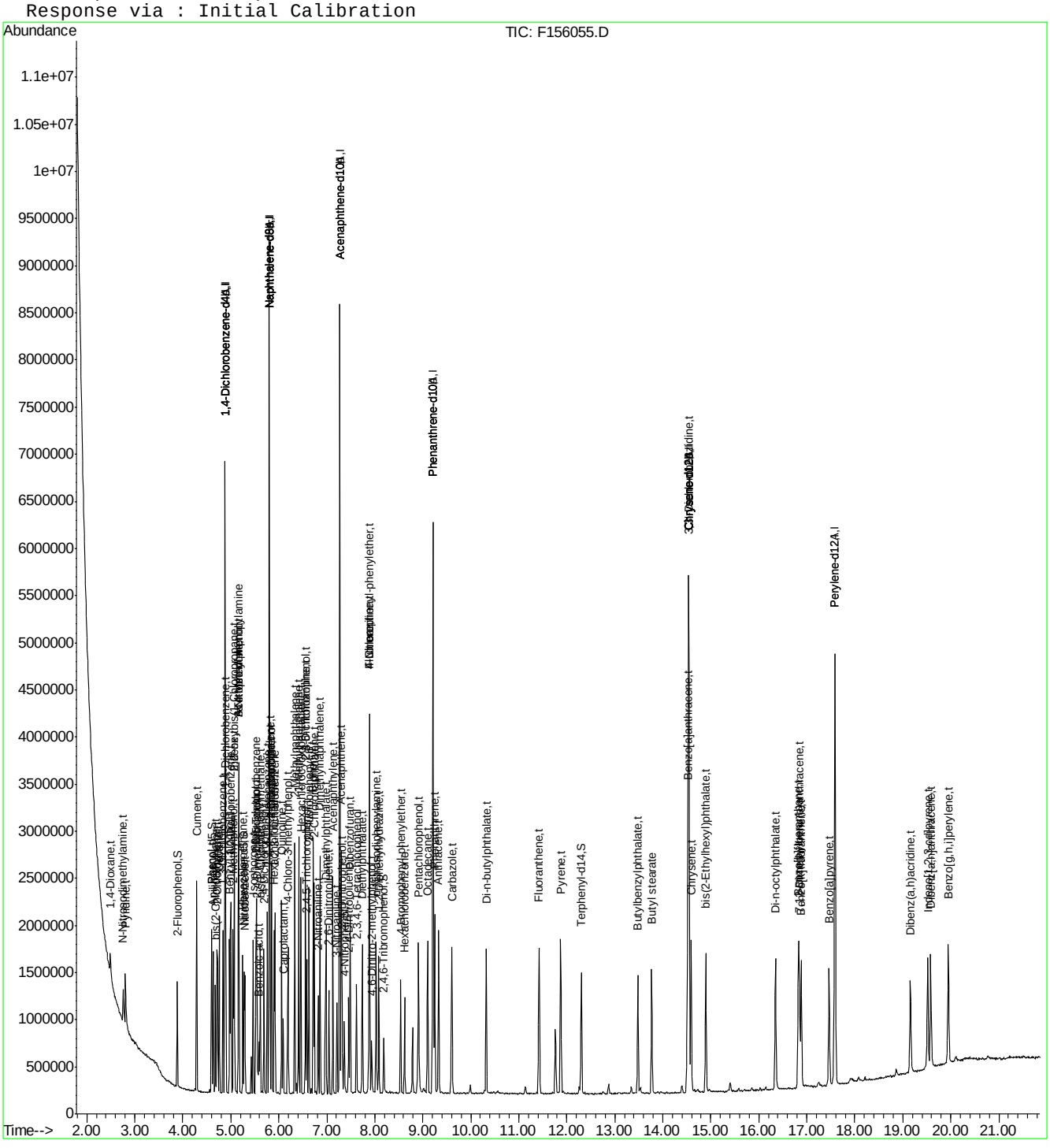
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:56 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:55:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	931507	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3436758	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2021007	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3225697	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2893026	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2659500	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	931507	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3436758	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2021007	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3225697	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2893026	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2659500	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	931507	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3436758	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2021007	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3225697	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2893026	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	931507	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3436758	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2893026	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3436758	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2893026	40.00	ppm	0.23

System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	171255	5.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.90%	
8) Phenol-d5	4.59	99	207335	5.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.06%	
25) Nitrobenzene-d5	5.28	82	169051	5.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.92%	
51) 2-Fluorobiphenyl	6.63	172	352630	6.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	12.50%	
73) 2,4,6-Tribromophenol	8.18	330	34343	5.34	ppm	-0.01
Spiked Amount 50.000			Recovery	=	10.68%	
85) Terphenyl-d14	12.30	244	301180	5.22	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.44%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	87752	6.48	ppm	95
3) Pyridine	2.81	79	176084	5.15	ppm	98
4) N-Nitrosodimethylamine	2.76	42	63395	4.83	ppm	96
6) Indene	5.07	116	305528	6.41	ppm	99
7) Cumene	4.29	105	397141	5.93	ppm	97
9) Phenol	4.61	94	216569	5.41	ppm	93
10) Aniline	4.63	93	257505	6.48	ppm	92
11) bis(2-Chloroethyl)ether	4.68	93	162439	5.68	ppm	99
12) 2-Chlorophenol	4.72	128	184524	5.79	ppm	98
13) Decane	4.76	43	158573	6.07	ppm	95
14) 1,3-Dichlorobenzene	4.84	146	203800	5.84	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	208865	6.01	ppm	96

(#) = qualifier out of range (m) = manual integration
F156056.D MF6563.M Tue Apr 05 08:57:58 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.97	108	115910	5.61	ppm		97
17)	1,2-Dichlorobenzene	5.00	146	195335	6.08	ppm		98
18)	Acetophenone	5.17	105	235469	6.59	ppm		92
19)	2-Methylphenol	5.05	108	157196	5.74	ppm		98
20)	2,2'-oxybis(1-Chloropropan	5.08	121	59923	6.12	ppm		93
21)	3&4-Methylphenol	5.16	108	167369	6.21	ppm		98
22)	n-Nitroso-di-n-propylamine	5.17	70	123649	6.16	ppm		95
23)	Hexachloroethane	5.25	201	63788	5.87	ppm		90
26)	Nitrobenzene	5.29	77	179935	5.61	ppm		98
27)	Quinoline	6.06	129	349968	5.64	ppm		99
28)	Isophorone	5.46	82	306735	5.78	ppm		96
29)	2-Nitrophenol	5.52	139	94069	5.81	ppm		92
30)	2,4-Dimethylphenol	5.55	107	139481	5.06	ppm		94
31)	Benzoic acid	5.57	105	114126	4.70	ppm		91
32)	bis(2-Chloroethoxy)methane	5.62	93	195998	5.97	ppm		98
33)	2,4-Dichlorophenol	5.69	162	145285	5.72	ppm		97
34)	2,6-Dichlorophenol	5.86	162	144546	6.31	ppm		99
35)	1,3,5-Trichlorobenzene	5.53	180	164116	6.64	ppm		96
36)	1,2,4-Trichlorobenzene	5.76	180	152578	5.97	ppm		98
37)	1,2,3-Trichlorobenzene	5.92	180	151509	6.05	ppm		97
38)	Naphthalene	5.82	128	525580	6.69	ppm		99
39)	4-Chloroaniline	5.85	127	217464	6.59	ppm		98
40)	2,3-Dichloroaniline	6.56	161	176515	6.67	ppm		98
41)	Caprolactam	6.09	55	64409	5.07	ppm		94
42)	Hexachlorobutadiene	5.90	225	70966	5.99	ppm		97
43)	4-Chloro-3-methylphenol	6.19	107	146701	5.78	ppm		99
44)	2-Methylnaphthalene	6.33	141	291321	6.22	ppm		95
45)	1-Methylnaphthalene	6.41	141	300622	6.22	ppm		97
46)	Dimethylnaphthalene	6.85	156	305639	6.26	ppm		98
48)	Hexachlorocyclopentadiene	6.46	237	149951	11.97	ppm		99
49)	2,4,6-Trichlorophenol	6.56	196	95389	6.60	ppm		96
50)	2,4,5-Trichlorophenol	6.58	196	102296	5.88	ppm		96
52)	2-Chloronaphthalene	6.74	162	320335	6.19	ppm		98
53)	Biphenyl	6.72	154	413488	6.37	ppm		98
54)	2-Nitroaniline	6.82	65	87377	5.31	ppm		100
55)	Dimethylphthalate	6.98	163	349340	5.88	ppm		100
56)	Acenaphthylene	7.13	152	517726	6.26	ppm		98
57)	2,6-Dinitrotoluene	7.04	165	73798	5.29	ppm		94
58)	3-Nitroaniline	7.21	138	91856	5.28	ppm		96
59)	Acenaphthene	7.30	153	332260	6.41	ppm		99
60)	2,4-Dinitrophenol	7.31	184	55130	6.64	ppm	#	24
61)	4-Nitrophenol	7.36	109	41361	4.77	ppm		98
62)	Dibenzofuran	7.49	168	449077	6.29	ppm		96
63)	2,4-Dinitrotoluene	7.46	165	100620	5.26	ppm		77
64)	2,3,4,6-Tetrachlorophenol	7.62	232	75026	5.56	ppm		98
65)	Diethylphthalate	7.74	149	340318	5.71	ppm		98
66)	Fluorene	7.89	166	360051	6.94	ppm		97
67)	4-Chlorophenyl-phenylether	7.89	204	156209	7.00	ppm		90
68)	4-Nitroaniline	7.89	138	94299	5.44	ppm		96

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

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	40513	3.67	ppm	96
71)	n-Nitrosodiphenylamine	8.02	169	253978	6.05	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	341978	5.70	ppm	98
74)	4-Bromophenyl-phenylether	8.54	248	85099	6.08	ppm	94
75)	Hexachlorobenzene	8.62	284	81969	6.11	ppm	94
76)	Pentachlorophenol	8.91	266	106497	11.44	ppm	99
77)	Phenanthrene	9.25	178	508086	6.24	ppm	99
78)	Anthracene	9.33	178	512709	6.16	ppm	99
79)	Carbazole	9.60	167	468870	5.93	ppm	100
80)	Di-n-butylphthalate	10.32	149	589128	5.86	ppm	99
81)	Fluoranthene	11.42	202	495066	5.83	ppm	99
82)	Octadecane	9.10	57	206521	5.92	ppm	99
84)	Pyrene	11.87	202	528440	5.27	ppm	98
86)	Butylbenzylphthalate	13.48	149	250816	4.84	ppm	97
87)	Butyl stearate	13.77	56	136234	4.72	ppm	99
88)	Benzo[a]anthracene	14.52	228	433302	5.07	ppm	97
89)	3,3'-Dichlorobenzidine	14.55	252	156108	5.05	ppm	98
90)	Chrysene	14.59	228	448785	5.29	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.89	149	341191	4.71	ppm	96
93)	Di-n-octylphthalate	16.35	149	604939	5.24	ppm	98
94)	Benzo[b]fluoranthene	16.82	252	435201	5.61	ppm	99
95)	Benzo[k]fluoranthene	16.88	252	414541	5.37	ppm	99
96)	Benzo[a]pyrene	17.46	252	392090	5.45	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.52	276	353891	5.29	ppm	91
98)	Dibenz(a,h)acridine	19.16	279	308931	5.34	ppm	100
99)	Dibenz[a,h]anthracene	19.58	278	347003	5.25	ppm	95
100)	7,12-Dimethylbenz(a)anthra	16.84	256	162841	4.97	ppm	96
101)	Benzo[g,h,i]perylene	19.94	276	392199	5.54	ppm	96

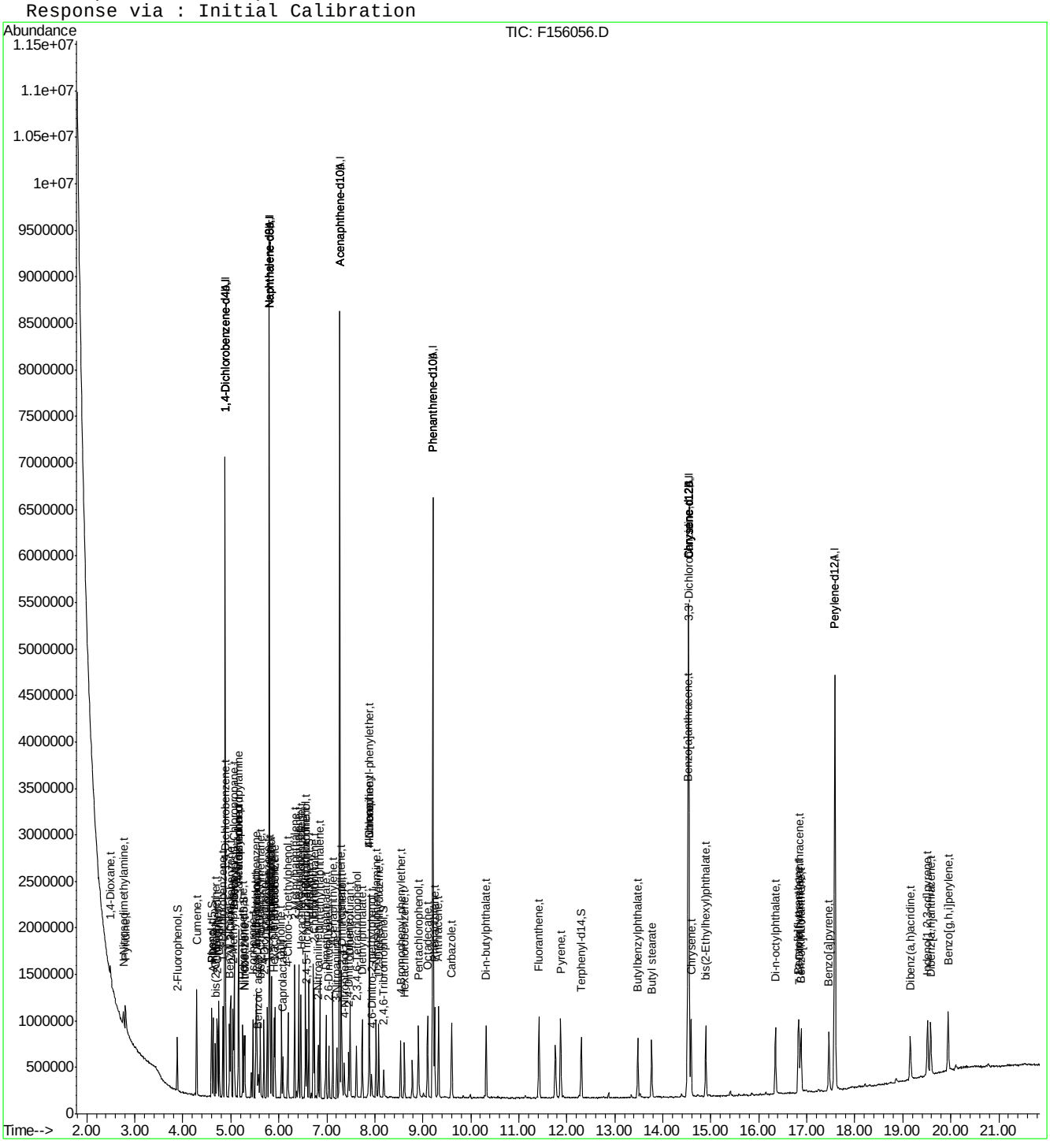
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:57 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:56:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

F156057.D

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 15:11

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	918307	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3392002	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1972367	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3182891	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2811338	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2583255	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	918307	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3392002	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1972367	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3182891	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2811338	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2583255	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	918307	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3392002	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1972367	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3182891	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2811338	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	918307	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3392002	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2811338	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3392002	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2811338	40.00	ppm	0.23

System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	67381	2.12	ppm	0.00
Spiked Amount 50.000			Recovery = 4.24%			
8) Phenol-d5	4.59	99	82796	2.15	ppm	0.00
Spiked Amount 50.000			Recovery = 4.30%			
25) Nitrobenzene-d5	5.28	82	64774	2.05	ppm	0.00
Spiked Amount 50.000			Recovery = 4.10%			
51) 2-Fluorobiphenyl	6.63	172	142064	2.34	ppm	0.00
Spiked Amount 50.000			Recovery = 4.68%			
73) 2,4,6-Tribromophenol	8.19	330	13619	2.10	ppm	-0.01
Spiked Amount 50.000			Recovery = 4.20%			
85) Terphenyl-d14	12.30	244	115350	2.02	ppm	0.00
Spiked Amount 50.000			Recovery = 4.04%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.49	88	19952m	1.39	ppm		
3) Pyridine	2.82	79	62693	1.83	ppm		99
4) N-Nitrosodimethylamine	2.77	42	24930	2.11	ppm	#	71
6) Indene	5.07	116	122410	2.35	ppm		98
7) Cumene	4.29	105	157607	2.22	ppm		97
9) Phenol	4.60	94	87242	2.13	ppm		93
10) Aniline	4.63	93	104543	2.40	ppm		94
11) bis(2-Chloroethyl)ether	4.68	93	63459	2.15	ppm		100
12) 2-Chlorophenol	4.72	128	73140	2.20	ppm		98
13) Decane	4.76	43	65729	2.35	ppm		91
14) 1,3-Dichlorobenzene	4.84	146	81625	2.22	ppm		97
15) 1,4-Dichlorobenzene	4.89	146	80670	2.18	ppm		97

(#) = qualifier out of range (m) = manual integration
F156057.D MF6563.M Tue Apr 05 09:24:02 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.97	108	45980	2.16	ppm		95
17)	1,2-Dichlorobenzene	5.00	146	77388	2.26	ppm		98
18)	Acetophenone	5.17	105	92358	2.33	ppm		92
19)	2-Methylphenol	5.05	108	61550	2.15	ppm		98
20)	2,2'-oxybis(1-Chloropropan	5.08	121	23816	2.30	ppm	#	84
21)	3&4-Methylphenol	5.16	108	63995	2.20	ppm		92
22)	n-Nitroso-di-n-propylamine	5.17	70	50208	2.35	ppm		96
23)	Hexachloroethane	5.25	201	24892	2.19	ppm		93
26)	Nitrobenzene	5.29	77	67438	2.04	ppm		96
27)	Quinoline	6.05	129	138065	2.14	ppm		98
28)	Isophorone	5.46	82	117937	2.12	ppm		96
29)	2-Nitrophenol	5.52	139	34742	2.03	ppm		85
30)	2,4-Dimethylphenol	5.55	107	53800	1.97	ppm		97
31)	Benzoic acid	5.57	105	40367	1.69	ppm		94
32)	bis(2-Chloroethoxy)methane	5.62	93	77708	2.24	ppm		98
33)	2,4-Dichlorophenol	5.69	162	57101	2.14	ppm		97
34)	2,6-Dichlorophenol	5.86	162	57136	2.28	ppm		99
35)	1,3,5-Trichlorobenzene	5.53	180	63320	2.31	ppm		97
36)	1,2,4-Trichlorobenzene	5.76	180	60630	2.23	ppm		97
37)	1,2,3-Trichlorobenzene	5.92	180	61163	2.30	ppm		93
38)	Naphthalene	5.82	128	211027	2.39	ppm		97
39)	4-Chloroaniline	5.85	127	85275	2.32	ppm		99
40)	2,3-Dichloroaniline	6.56	161	72171	2.41	ppm		96
41)	Caprolactam	6.08	55	25731	2.01	ppm		98
42)	Hexachlorobutadiene	5.90	225	30238	2.37	ppm		96
43)	4-Chloro-3-methylphenol	6.19	107	53743	2.03	ppm		95
44)	2-Methylnaphthalene	6.33	141	116051	2.29	ppm		97
45)	1-Methylnaphthalene	6.41	141	118123	2.26	ppm		94
46)	Dimethylnaphthalene	6.86	156	119350	2.25	ppm		99
48)	Hexachlorocyclopentadiene	6.46	237	55624	4.15	ppm		96
49)	2,4,6-Trichlorophenol	6.56	196	38754	2.43	ppm		97
50)	2,4,5-Trichlorophenol	6.58	196	39267	2.16	ppm		92
52)	2-Chloronaphthalene	6.74	162	124816	2.26	ppm		97
53)	Biphenyl	6.72	154	163283	2.32	ppm		98
54)	2-Nitroaniline	6.82	65	32355	1.97	ppm		90
55)	Dimethylphthalate	6.98	163	137083	2.20	ppm		99
56)	Acenaphthylene	7.13	152	204353	2.29	ppm		98
57)	2,6-Dinitrotoluene	7.04	165	25658	1.83	ppm		98
58)	3-Nitroaniline	7.21	138	34477	1.96	ppm		97
59)	Acenaphthene	7.30	153	128608	2.29	ppm		97
60)	2,4-Dinitrophenol	7.32	184	15677	2.14	ppm	#	46
61)	4-Nitrophenol	7.36	109	15018	1.81	ppm		96
62)	Dibenzofuran	7.49	168	174267	2.27	ppm		98
63)	2,4-Dinitrotoluene	7.45	165	36684	1.91	ppm		98
64)	2,3,4,6-Tetrachlorophenol	7.62	232	28627	2.06	ppm		94
65)	Diethylphthalate	7.74	149	134572	2.19	ppm		98
66)	Fluorene	7.89	166	138455	2.37	ppm		99
67)	4-Chlorophenyl-phenylether	7.89	204	64851	2.57	ppm		91
68)	4-Nitroaniline	7.89	138	34880	1.98	ppm		91

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

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	11717	1.17	ppm	94
71)	n-Nitrosodiphenylamine	8.02	169	95889	2.15	ppm	96
72)	1,2-Diphenylhydrazine	8.08	77	131296	2.11	ppm	96
74)	4-Bromophenyl-phenylether	8.54	248	33407	2.23	ppm	97
75)	Hexachlorobenzene	8.62	284	31503	2.20	ppm	97
76)	Pentachlorophenol	8.91	266	39004	3.97	ppm	96
77)	Phenanthrene	9.25	178	200983	2.27	ppm	99
78)	Anthracene	9.33	178	198929	2.23	ppm	97
79)	Carbazole	9.60	167	184916	2.20	ppm	97
80)	Di-n-butylphthalate	10.32	149	219322	2.06	ppm	98
81)	Fluoranthene	11.42	202	190900	2.14	ppm	98
82)	Octadecane	9.10	57	77261	2.09	ppm	95
84)	Pyrene	11.87	202	201138	2.02	ppm	98
86)	Butylbenzylphthalate	13.48	149	92745	1.86	ppm	96
87)	Butyl stearate	13.76	56	47830	1.74	ppm	94
88)	Benzo[a]anthracene	14.52	228	177735	2.12	ppm	96
89)	3,3'-Dichlorobenzidine	14.55	252	58243	1.92	ppm	99
90)	Chrysene	14.59	228	172615	2.05	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.89	149	128666	1.86	ppm	95
93)	Di-n-octylphthalate	16.34	149	220603	1.92	ppm	99
94)	Benzo[b]fluoranthene	16.82	252	162360	2.06	ppm	95
95)	Benzo[k]fluoranthene	16.88	252	162400	2.11	ppm	98
96)	Benzo[a]pyrene	17.46	252	149619	2.07	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.52	276	137334	2.04	ppm	96
98)	Dibenz(a,h)acridine	19.16	279	114274	1.96	ppm	98
99)	Dibenz[a,h]anthracene	19.58	278	132465	2.01	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.84	256	59468	1.84	ppm	91
101)	Benzo[g,h,i]perylene	19.94	276	148274	2.05	ppm	94

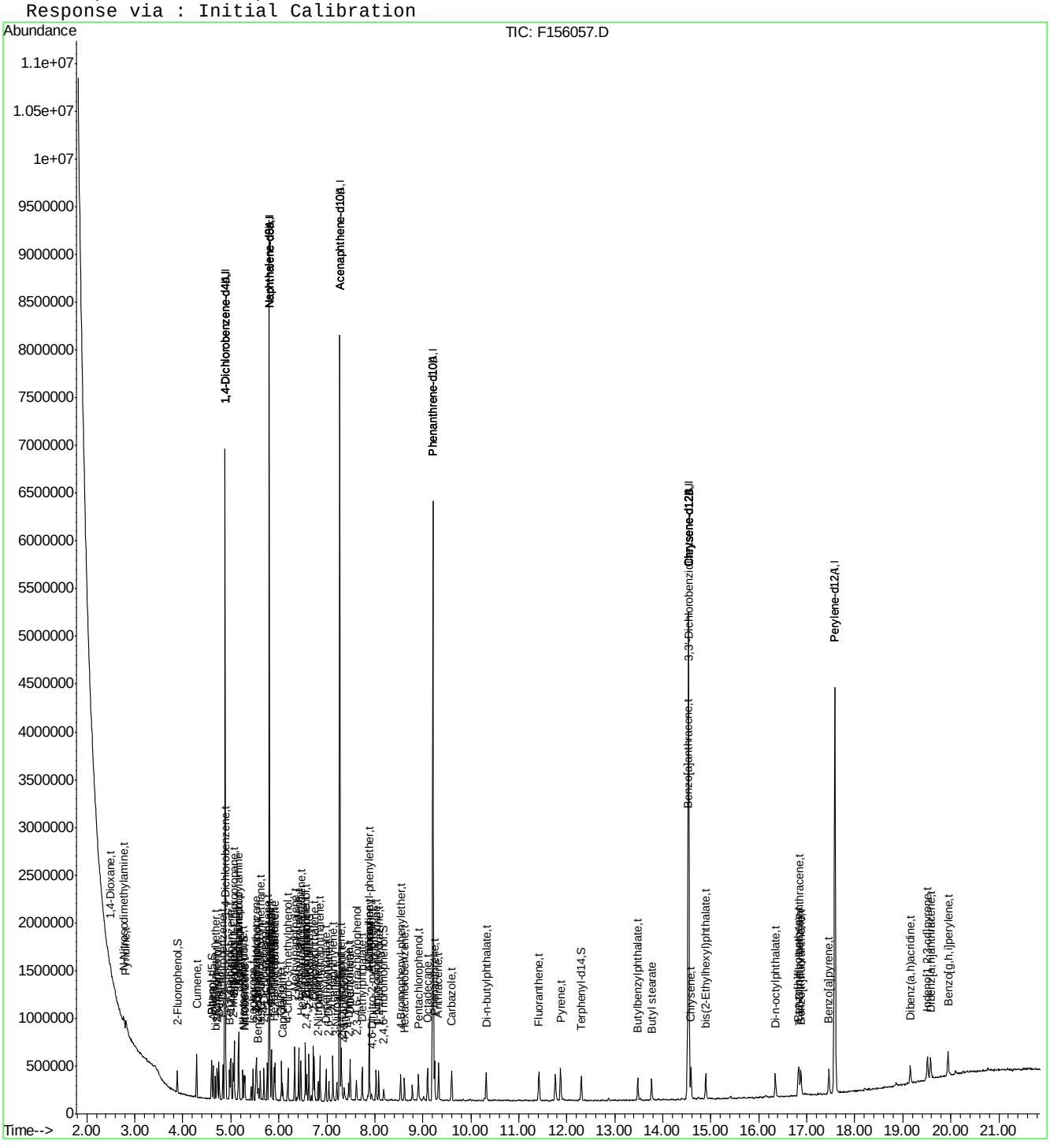
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:23 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration



Manual Integration Approval Summary

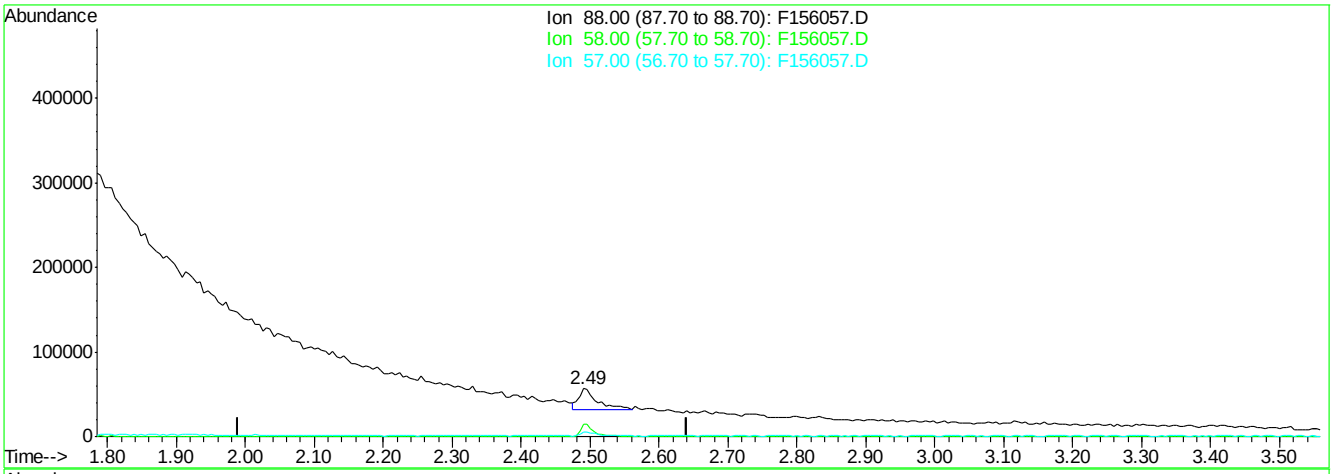
Sample Number:	EF6563-IC6563	**Method:**	SW846 8270D
Lab FileID:	F156057.D	**Analyst approved:**	04/06/16 08:21 Linsey Kirschmann
Injection Time:	04/04/16 22:04	**Supervisor approved:**	04/06/16 15:11 Kristi Schollenberger

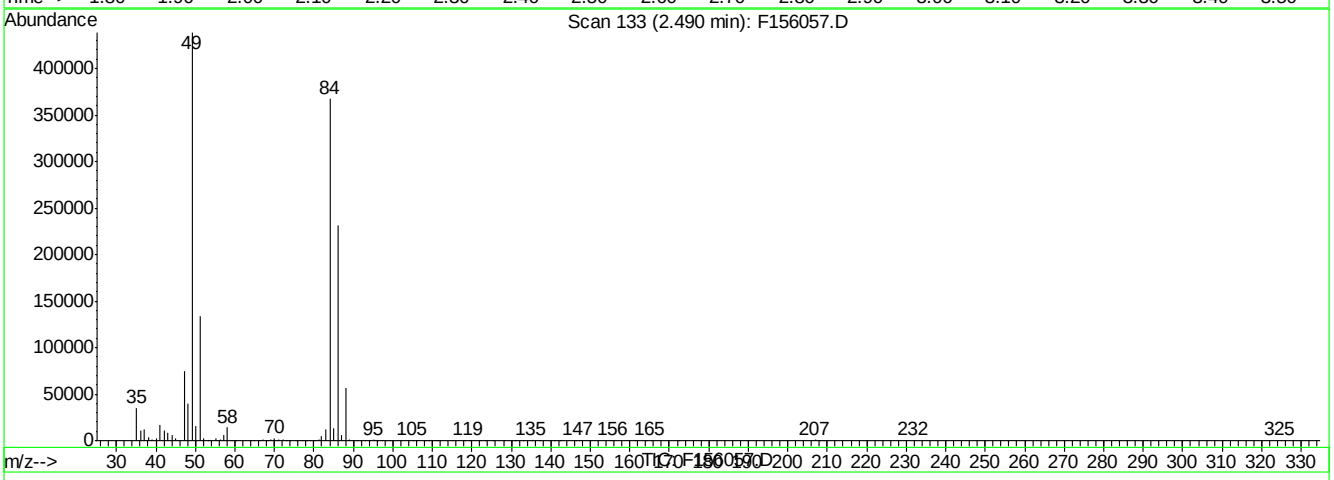
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.49	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:14 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:06:16 2016
Response via : Multiple Level Calibration





(2) 1,4-Dioxane (t)

2.49min 3.04ppm

response 43525

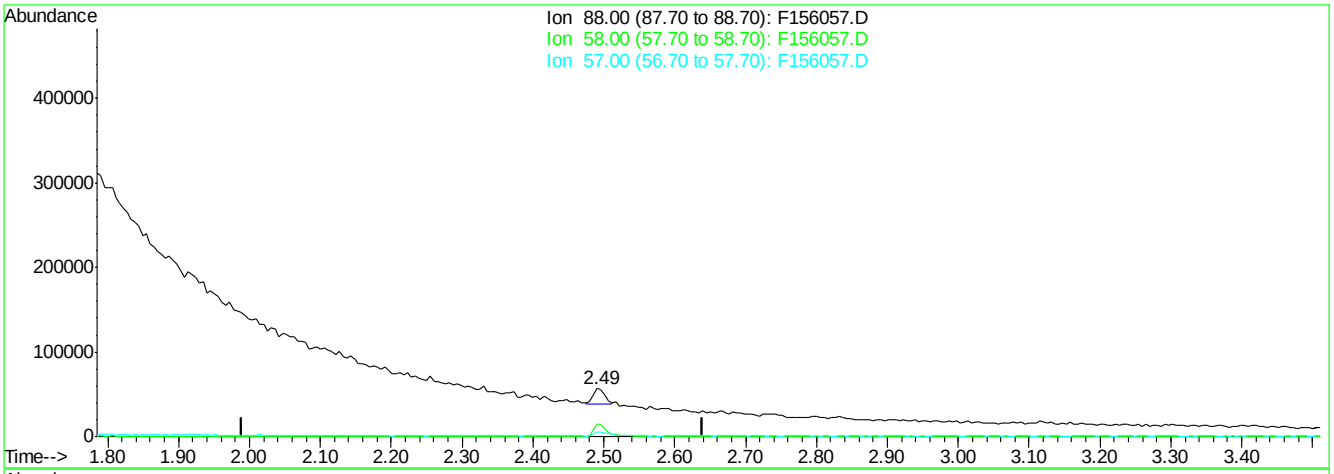
Ion	Exp%	Act%
88.00	100	100
58.00	66.20	68.89
57.00	21.10	24.74
0.00	0.00	0.00

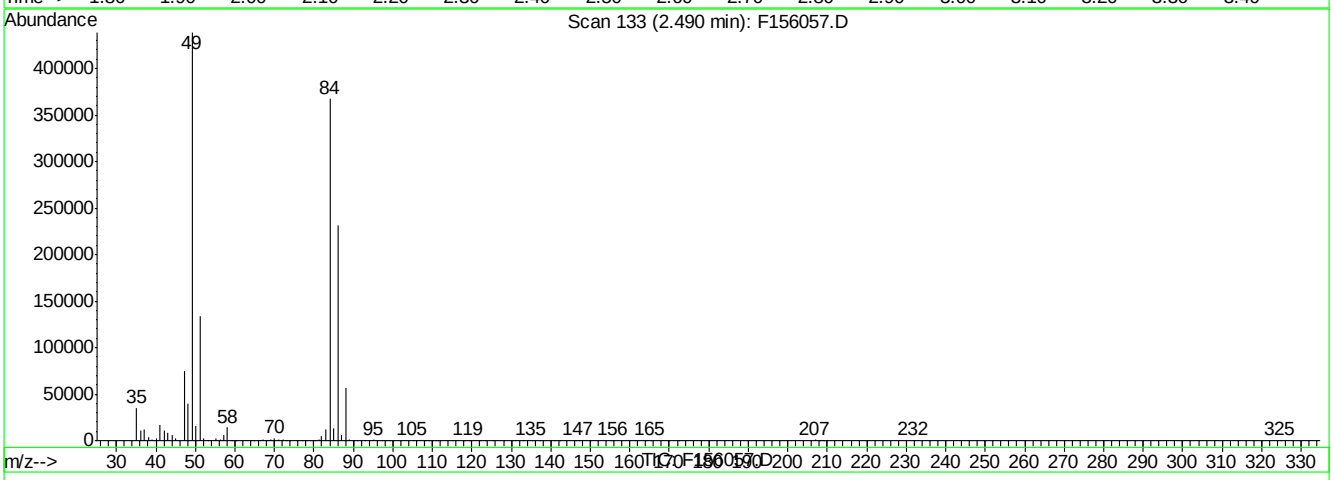
F156057.D MF6563.M Tue Apr 05 09:15:23 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:15 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:06:16 2016
Response via : Multiple Level Calibration





(2) 1,4-Dioxane (t)

2.49min 1.39ppm m

response 19952

Ion	Exp%	Act%
88.00	100	100
58.00	66.20	25.38#
57.00	21.10	10.38
0.00	0.00	0.00

F156057.D MF6563.M Tue Apr 05 09:15:29 2016 RT1

7.6.82.3

7

SGS ACCUTEST JC19423

F156057.D edits: 1,4-Dioxane

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 15:11

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	925326	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3443301	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2022694	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3240274	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2829220	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2605308	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	925326	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3443301	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2022694	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3240274	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2829220	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2605308	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	925326	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3443301	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2022694	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3240274	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2829220	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.88	152	925326	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3443301	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2829220	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3443301	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2829220	40.00	ppm	0.22
System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	33942	1.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.18%	
8) Phenol-d5	4.60	99	42142	1.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.26%	
25) Nitrobenzene-d5	5.28	82	32224	1.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.08%	
51) 2-Fluorobiphenyl	6.63	172	69971	1.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.48%	
73) 2,4,6-Tribromophenol	8.19	330	6260	0.97	ppm	-0.01
Spiked Amount 50.000			Recovery	=	1.94%	
85) Terphenyl-d14	12.30	244	57004	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.50	88	18018m	1.34	ppm	
3) Pyridine	2.82	79	31114	0.92	ppm	89
4) N-Nitrosodimethylamine	2.77	42	13265	1.02	ppm	99
6) Indene	5.07	116	61038	1.29	ppm	98
7) Cumene	4.29	105	79272	1.19	ppm	99
9) Phenol	4.60	94	45104	1.13	ppm	96
10) Aniline	4.63	93	52526	1.33	ppm	95
11) bis(2-Chloroethyl)ether	4.68	93	32260	1.14	ppm	98
12) 2-Chlorophenol	4.72	128	37291	1.18	ppm	95
13) Decane	4.76	43	34278	1.32	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	41335	1.19	ppm	98
15) 1,4-Dichlorobenzene	4.89	146	40166	1.16	ppm	95

(#) = qualifier out of range (m) = manual integration
F156058.D MF6563.M Tue Apr 05 09:25:39 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.97	108	23422	1.14	ppm		90
17) 1,2-Dichlorobenzene	5.00	146	39477	1.24	ppm		94
18) Acetophenone	5.17	105	45494	1.28	ppm		93
19) 2-Methylphenol	5.05	108	31635	1.16	ppm		95
20) 2,2'-oxybis(1-Chloropropan	5.08	121	12901	1.33	ppm	#	72
21) 3&4-Methylphenol	5.16	108	33244	1.24	ppm		96
22) n-Nitroso-di-n-propylamine	5.16	70	24292	1.22	ppm		96
23) Hexachloroethane	5.25	201	12952	1.20	ppm		91
26) Nitrobenzene	5.29	77	33402	1.04	ppm		98
27) Quinoline	6.05	129	69003	1.11	ppm		99
28) Isophorone	5.46	82	60703	1.14	ppm		98
29) 2-Nitrophenol	5.52	139	18094	1.11	ppm		86
30) 2,4-Dimethylphenol	5.55	107	26515	0.96	ppm		99
31) Benzoic acid	5.56	105	18143	0.75	ppm		84
32) bis(2-Chloroethoxy)methane	5.62	93	38876	1.18	ppm		97
33) 2,4-Dichlorophenol	5.69	162	28566	1.12	ppm		97
34) 2,6-Dichlorophenol	5.86	162	29724	1.29	ppm		97
35) 1,3,5-Trichlorobenzene	5.53	180	32487	1.31	ppm		98
36) 1,2,4-Trichlorobenzene	5.76	180	30670	1.20	ppm		97
37) 1,2,3-Trichlorobenzene	5.92	180	31037	1.24	ppm		96
38) Naphthalene	5.82	128	106291	1.35	ppm		90
39) 4-Chloroaniline	5.85	127	43078	1.30	ppm		98
40) 2,3-Dichloroaniline	6.56	161	37045	1.40	ppm		95
41) Caprolactam	6.07	55	13615	1.07	ppm		93
42) Hexachlorobutadiene	5.90	225	14417	1.22	ppm		96
43) 4-Chloro-3-methylphenol	6.19	107	27002	1.06	ppm		95
44) 2-Methylnaphthalene	6.33	141	56195	1.20	ppm		96
45) 1-Methylnaphthalene	6.41	141	58487	1.21	ppm		97
46) Dimethylnaphthalene	6.85	156	58934	1.20	ppm		93
48) Hexachlorocyclopentadiene	6.46	237	26262	2.09	ppm		99
49) 2,4,6-Trichlorophenol	6.56	196	19329	1.34	ppm		98
50) 2,4,5-Trichlorophenol	6.58	196	19243	1.10	ppm		95
52) 2-Chloronaphthalene	6.74	162	63561	1.23	ppm		98
53) Biphenyl	6.72	154	82740	1.27	ppm		97
54) 2-Nitroaniline	6.82	65	14621	0.89	ppm	#	80
55) Dimethylphthalate	6.98	163	69268	1.17	ppm		97
56) Acenaphthylene	7.13	152	102899	1.24	ppm		99
57) 2,6-Dinitrotoluene	7.04	165	13845	0.99	ppm		91
58) 3-Nitroaniline	7.21	138	15918	0.92	ppm		90
59) Acenaphthene	7.30	153	65211	1.26	ppm		96
60) 2,4-Dinitrophenol	7.32	184	5693	0.69	ppm	#	25
61) 4-Nitrophenol	7.36	109	7647	0.88	ppm		94
62) Dibenzofuran	7.49	168	88112	1.23	ppm		97
63) 2,4-Dinitrotoluene	7.45	165	16291	0.85	ppm		87
64) 2,3,4,6-Tetrachlorophenol	7.62	232	13911	1.03	ppm		91
65) Diethylphthalate	7.74	149	69487	1.17	ppm		97
66) Fluorene	7.89	166	70042	1.35	ppm		96
67) 4-Chlorophenyl-phenylether	7.89	204	31787	1.42	ppm		84
68) 4-Nitroaniline	7.89	138	16764	0.97	ppm		90

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

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	4799	0.43	ppm	92
71)	n-Nitrosodiphenylamine	8.02	169	49361	1.17	ppm	91
72)	1,2-Diphenylhydrazine	8.08	77	64939	1.08	ppm	97
74)	4-Bromophenyl-phenylether	8.54	248	16182	1.15	ppm	97
75)	Hexachlorobenzene	8.62	284	15706	1.17	ppm	96
76)	Pentachlorophenol	8.91	266	17082	1.83	ppm	94
77)	Phenanthrene	9.25	178	102369	1.25	ppm	98
78)	Anthracene	9.33	178	99583	1.19	ppm	98
79)	Carbazole	9.60	167	91266	1.15	ppm	97
80)	Di-n-butylphthalate	10.32	149	111956	1.11	ppm	97
81)	Fluoranthene	11.42	202	96469	1.13	ppm	98
82)	Octadecane	9.10	57	38528	1.10	ppm	95
84)	Pyrene	11.87	202	100822	1.03	ppm	94
86)	Butylbenzylphthalate	13.48	149	47051	0.93	ppm	93
87)	Butyl stearate	13.77	56	23594	0.84	ppm	93
88)	Benzo[a]anthracene	14.52	228	90088	1.08	ppm	96
89)	3,3'-Dichlorobenzidine	14.54	252	26697	0.88	ppm	83
90)	Chrysene	14.59	228	86595	1.04	ppm	93
91)	bis(2-Ethylhexyl)phthalate	14.89	149	63397	0.89	ppm	99
93)	Di-n-octylphthalate	16.34	149	105581	0.93	ppm	99
94)	Benzo[b]fluoranthene	16.82	252	84697	1.11	ppm	95
95)	Benzo[k]fluoranthene	16.88	252	83033	1.10	ppm	97
96)	Benzo[a]pyrene	17.46	252	76555	1.09	ppm	97
97)	Indeno[1,2,3-cd]pyrene	19.52	276	68054	1.04	ppm	96
98)	Dibenz(a,h)acridine	19.16	279	57503	1.02	ppm	99
99)	Dibenz[a,h]anthracene	19.57	278	61000	0.94	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.84	256	26148	0.81	ppm	98
101)	Benzo[g,h,i]perylene	19.94	276	76109	1.10	ppm	97

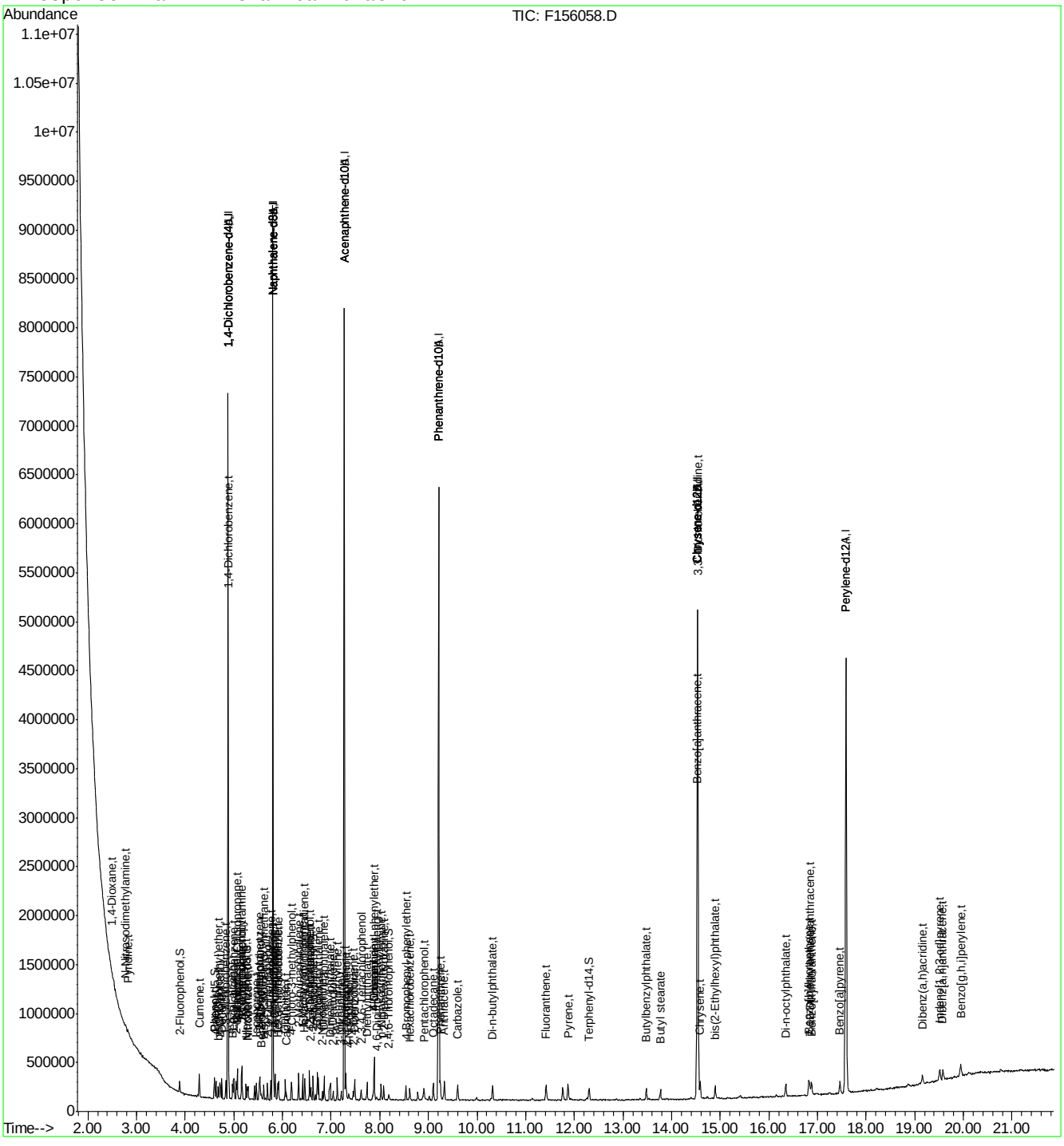
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:25 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Initial Calibration



Manual Integration Approval Summary

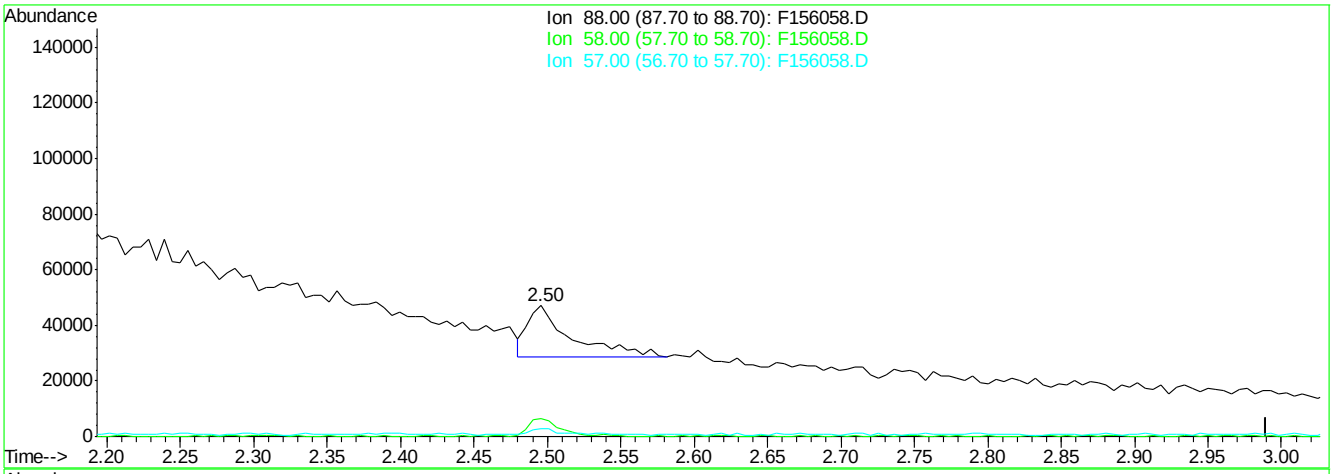
Sample Number:	EF6563-IC6563	**Method:**	SW846 8270D
Lab FileID:	F156058.D	**Analyst approved:**	04/06/16 08:21 Linsey Kirschmann
Injection Time:	04/04/16 22:33	**Supervisor approved:**	04/06/16 15:11 Kristi Schollenberger

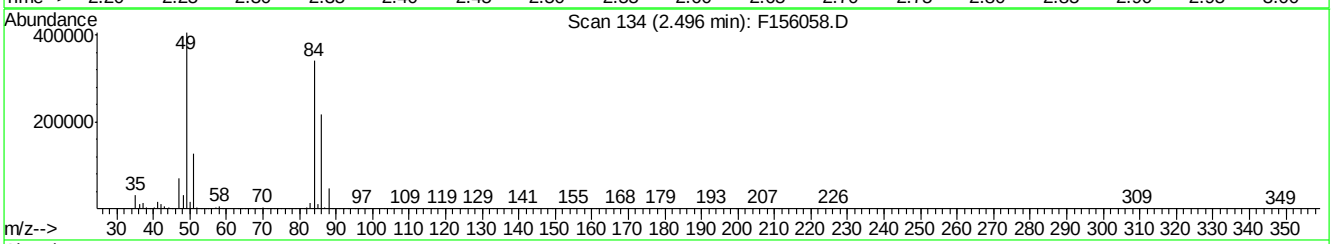
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.50	Poor instrument integration

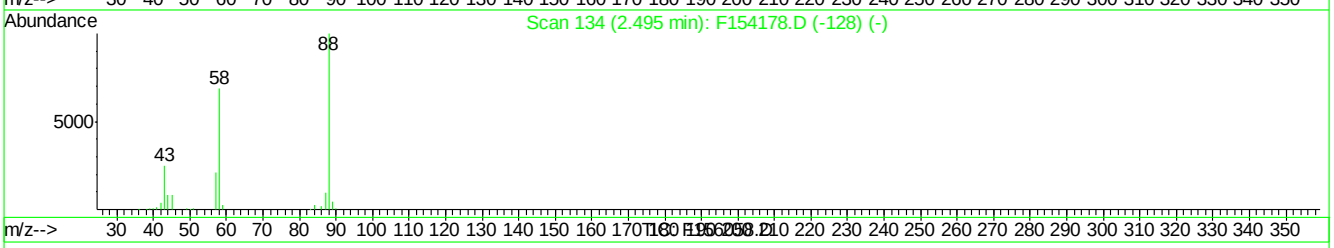
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:14 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Multiple Level Calibration







(2) 1,4-Dioxane (t)

2.50min 2.82ppm

response 37950

Ion	Exp%	Act%
88.00	100	100
58.00	61.80	40.90
57.00	19.90	13.02
0.00	0.00	0.00

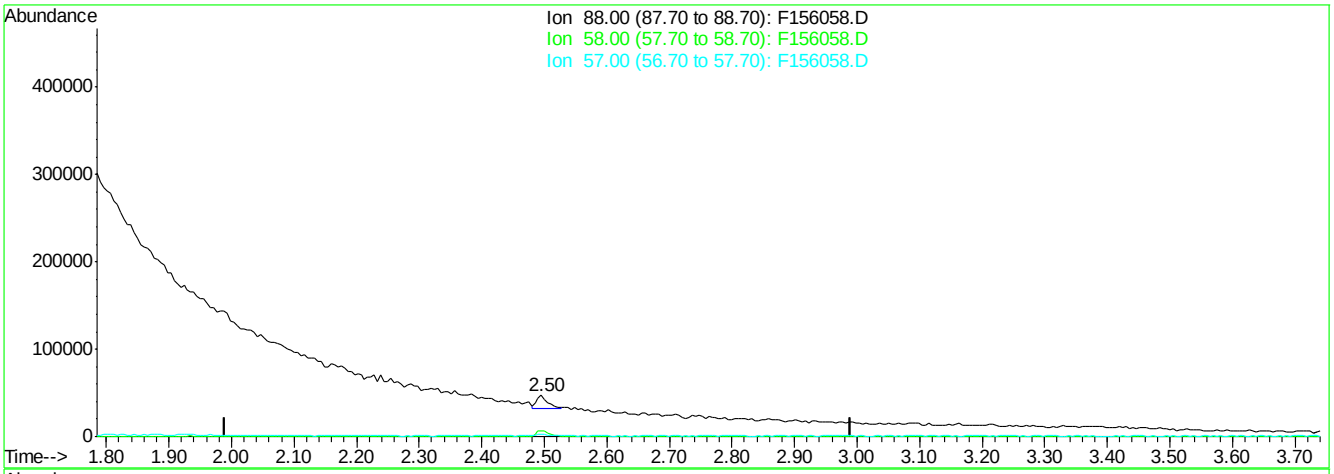
F156058.D MF6563.M Tue Apr 05 09:24:19 2016 RT1

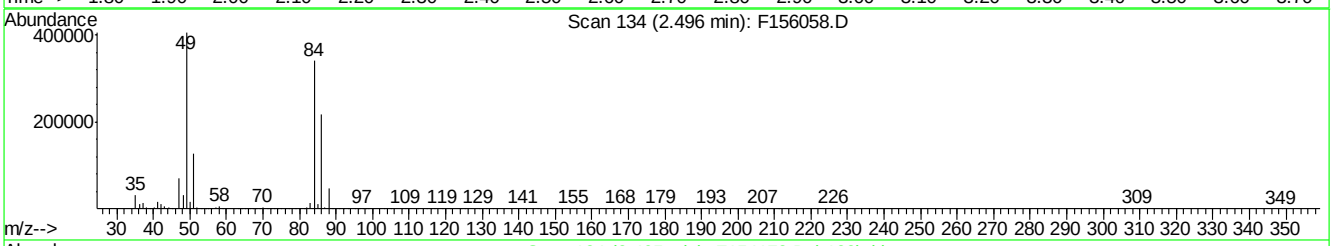
SGS ACCUTEST JC19423

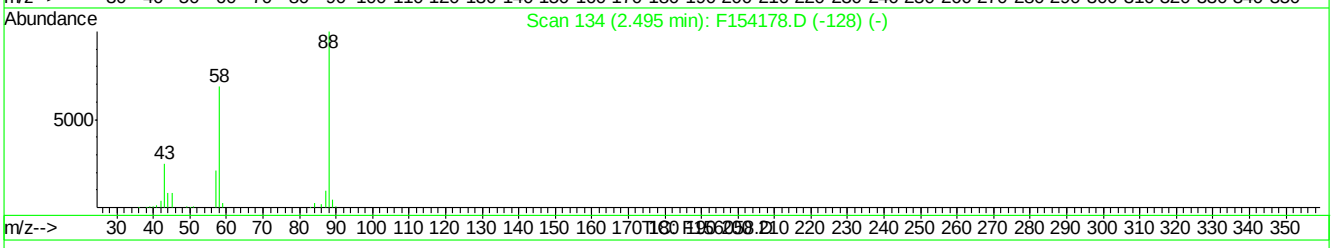
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:24 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Multiple Level Calibration







(2) 1,4-Dioxane (t)

2.50min 1.34ppm m

response 18018

Ion	Exp%	Act%
88.00	100	100
58.00	61.80	13.73#
57.00	19.90	5.91
0.00	0.00	0.00

F156058.D MF6563.M Tue Apr 05 09:24:27 2016 RT1

7.6.83.3

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156060.D Vial: 2
Acq On : 4 Apr 2016 11:27 pm Operator: sarad
Sample : ic6564-100 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:29 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	876019	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3330661	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1696591	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2963286	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2499519	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2399017	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	876019	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3330661	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1696591	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2963286	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2499519	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2399017	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	876019	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3330661	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1696591	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2963286	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2499519	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	876019	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3330661	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2499519	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3330661	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2499519	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

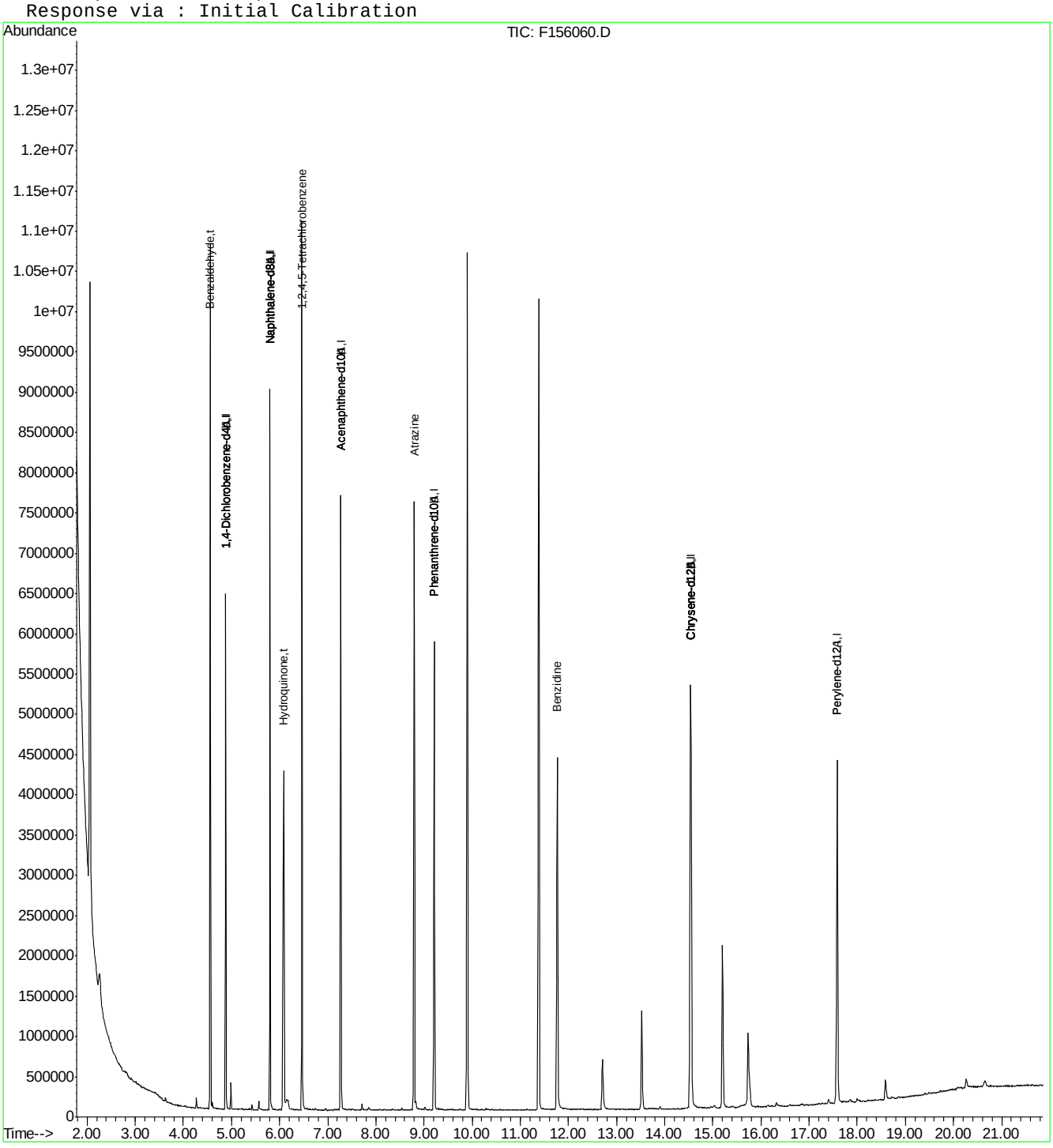
Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1788383	100.00	ppm	94
162) Hydroquinone	6.09	110	2676489	100.00	ppm	97
164) 1,2,4,5-Tetrachlorobenzene	6.47	216	1866229	100.00	ppm	99
166) Atrazine	8.80	200	1246711	100.00	ppm	98
168) Benzidine	11.77	184	2751436	100.00	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156060.D MF6563.M Tue Apr 05 10:07:06 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156060.D Vial: 2
Acq On : 4 Apr 2016 11:27 pm Operator: sarad
Sample : ic6564-100 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:07 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156060.D MF6563.M Tue Apr 05 10:07:07 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156061.D Vial: 3
Acq On : 4 Apr 2016 11:56 pm Operator: sarad
Sample : ic6564-80 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:57 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	778045	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2974600	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1548244	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2777345	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2529147	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2444530	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	778045	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2974600	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1548244	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2777345	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2529147	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2444530	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	778045	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2974600	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1548244	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2777345	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2529147	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	778045	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2974600	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2529147	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2974600	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2529147	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

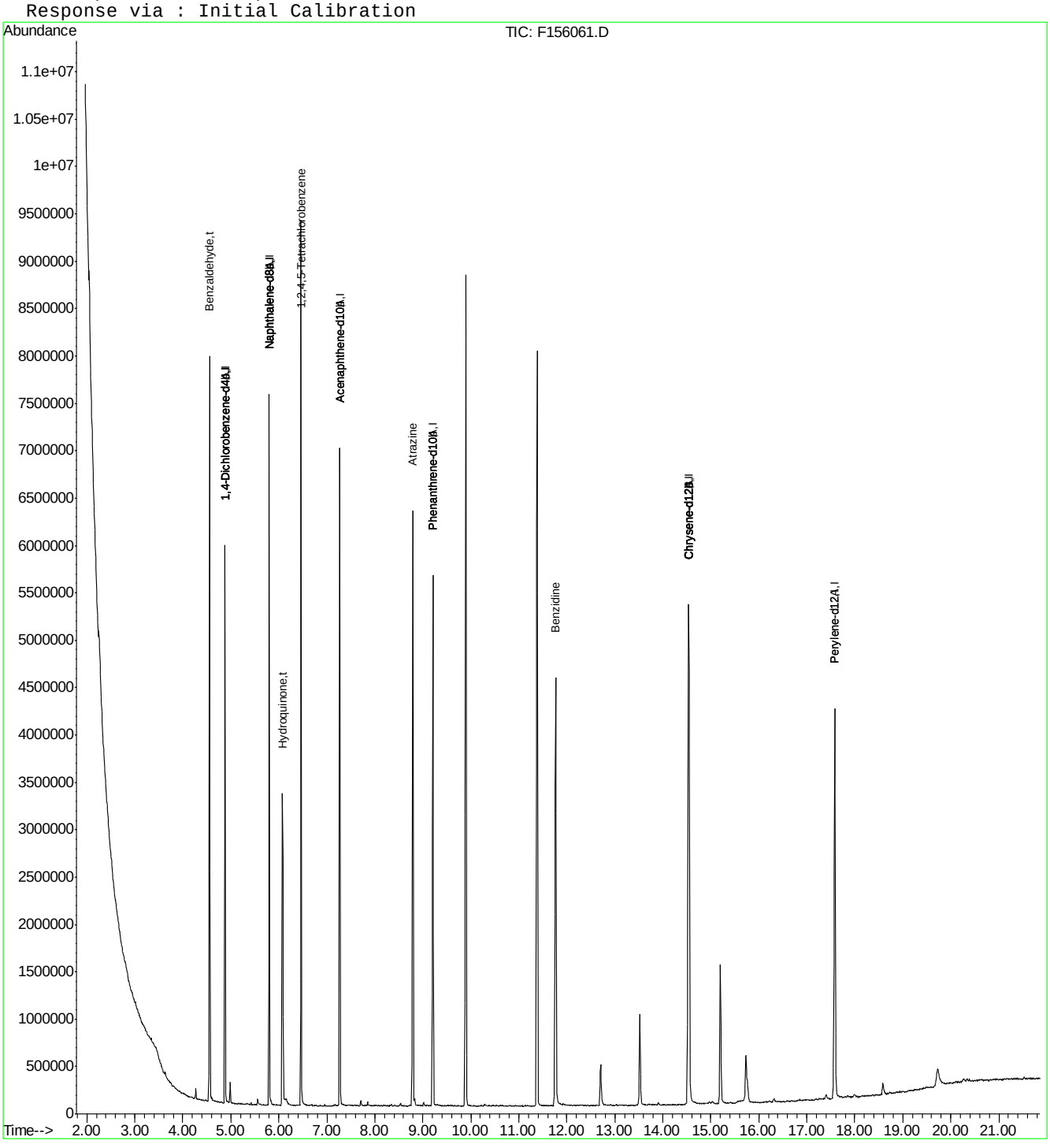
Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1480808	93.23	ppm	94
162) Hydroquinone	6.08	110	2074959	86.81	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	1443307	84.75	ppm	99
166) Atrazine	8.79	200	988551	84.60	ppm	98
168) Benzidine	11.77	184	2902612	104.26	ppm	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156061.D Vial: 3
Acq On : 4 Apr 2016 11:56 pm Operator: sarad
Sample : ic6564-80 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:07 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156061.D MF6563.M Tue Apr 05 10:07:56 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156062.D Vial: 4
Acq On : 5 Apr 2016 12:25 am Operator: sarad
Sample : icc6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:59 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	789682	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3030346	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1607375	40.00 ppm	0.00
69) Phenanthrene-d10	9.21	188	2850459	40.00 ppm	0.00
83) Chrysene-d12	14.53	240	2641342	40.00 ppm	-0.02
92) Perylene-d12	17.58	264	2578423	40.00 ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	789682	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3030346	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1607375	40.00 ppm	0.00
132) Phenanthrene-d10A	9.21	188	2850459	40.00 ppm	0.00
147) Chrysene-d12A	14.53	240	2641342	40.00 ppm	-0.02
155) Perylene-d12A	17.58	264	2578423	40.00 ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	789682	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3030346	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1607375	40.00 ppm	0.00
165) Phenanthrene-d10b	9.21	188	2850459	40.00 ppm	0.00
167) Chrysene-d12b	14.53	240	2641342	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	789682	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3030346	40.00 ppm	0.00
176) Chrysene-d12c	14.53	240	2641342	40.00 ppm	-0.02
178) Naphthalene-d8a	5.80	136	3030346	40.00 ppm	0.15
180) Chrysene-d12B	14.53	240	2641342	40.00 ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

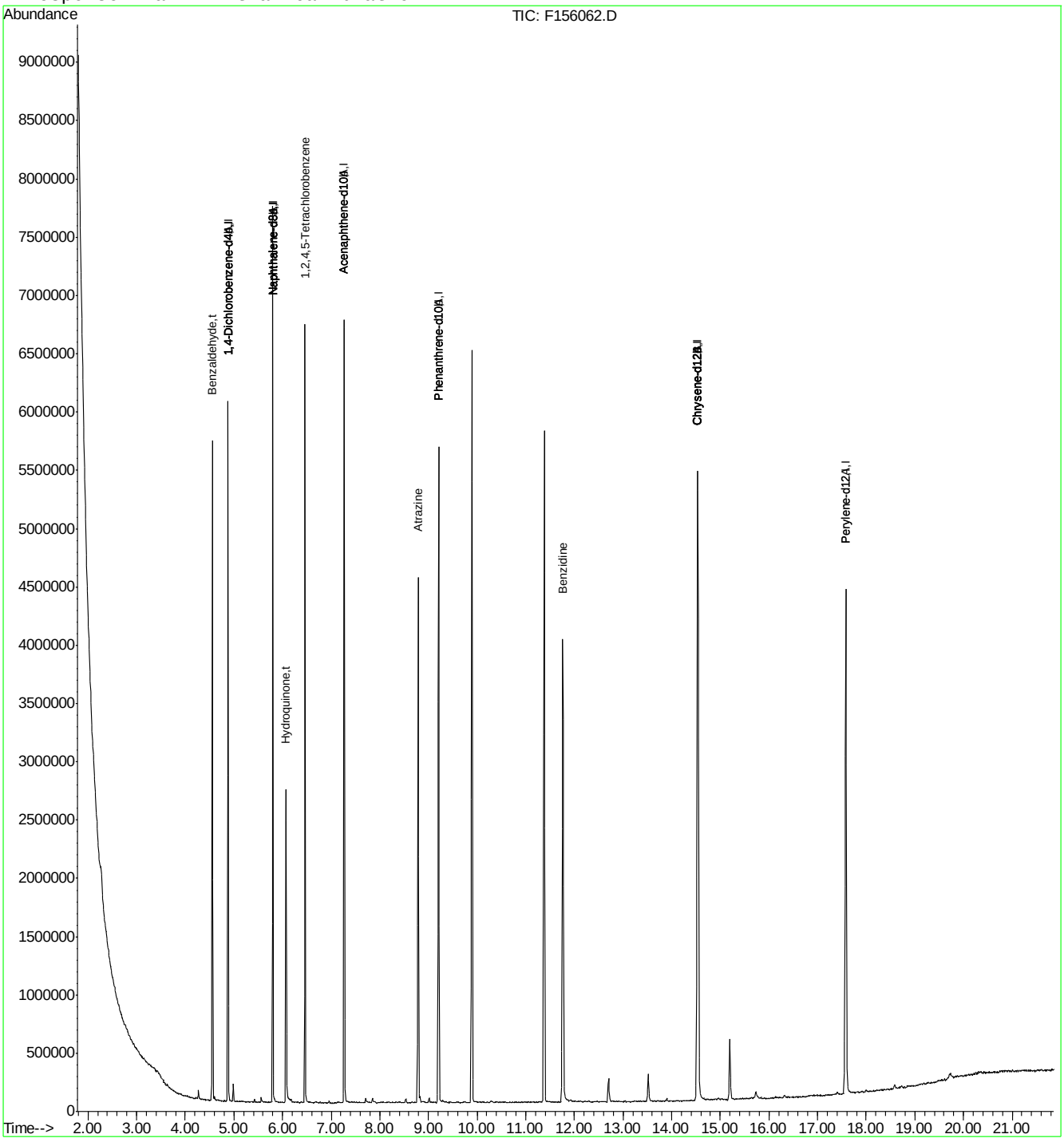
Target Compounds					Qvalue
160) Benzaldehyde	4.56	105	1038509	64.42 ppm	95
162) Hydroquinone	6.07	110	1423940	58.47 ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	995643	56.31 ppm	98
166) Atrazine	8.79	200	662708	55.26 ppm	97
168) Benzidine	11.76	184	2444021	84.06 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156062.D MF6563.M Tue Apr 05 10:08:48 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156062.D Vial: 4
Acq On : 5 Apr 2016 12:25 am Operator: sarad
Sample : icc6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:08 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156063.D Vial: 5
Acq On : 5 Apr 2016 12:53 am Operator: sarad
Sample : ic6564-25 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	897327	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3495590	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1830512	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3215186	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2889252	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2749195	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	897327	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3495590	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1830512	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3215186	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2889252	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2749195	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	897327	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3495590	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1830512	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3215186	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2889252	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	897327	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3495590	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2889252	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3495590	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2889252	40.00	ppm	0.22

System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

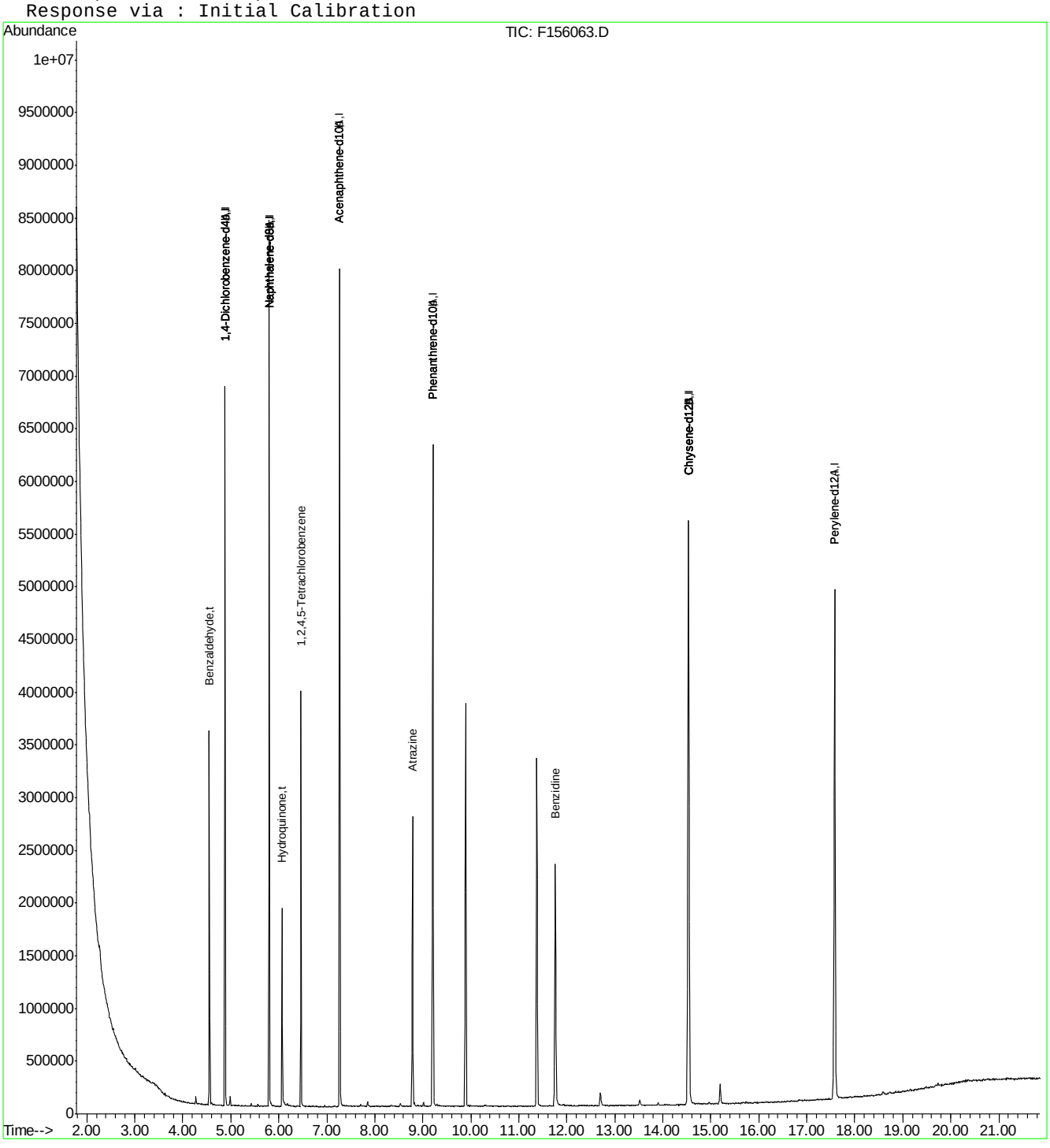
Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	625383	34.14	ppm	93
162) Hydroquinone	6.06	110	789896	28.12	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	610612	30.33	ppm	98
166) Atrazine	8.79	200	385755	28.52	ppm	98
168) Benzidine	11.76	184	1398321	43.97	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156063.D MF6563.M Tue Apr 05 10:09:35 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156063.D Vial: 5
Acq On : 5 Apr 2016 12:53 am Operator: sarad
Sample : ic6564-25 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:09 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156063.D MF6563.M Tue Apr 05 10:09:35 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156064.D Vial: 6
Acq On : 5 Apr 2016 1:22 am Operator: sarad
Sample : ic6564-10 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:03 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	885213	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3420800	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1822219	40.00 ppm	0.00
69) Phenanthrene-d10	9.21	188	3282226	40.00 ppm	0.00
83) Chrysene-d12	14.53	240	3053939	40.00 ppm	-0.02
92) Perylene-d12	17.59	264	2907168	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	885213	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3420800	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1822219	40.00 ppm	0.00
132) Phenanthrene-d10A	9.21	188	3282226	40.00 ppm	0.00
147) Chrysene-d12A	14.53	240	3053939	40.00 ppm	-0.02
155) Perylene-d12A	17.59	264	2907168	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	885213	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3420800	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1822219	40.00 ppm	0.00
165) Phenanthrene-d10b	9.21	188	3282226	40.00 ppm	0.00
167) Chrysene-d12b	14.53	240	3053939	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	885213	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3420800	40.00 ppm	0.00
176) Chrysene-d12c	14.53	240	3053939	40.00 ppm	-0.02
178) Naphthalene-d8a	5.80	136	3420800	40.00 ppm	0.15
180) Chrysene-d12B	14.53	240	3053939	40.00 ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

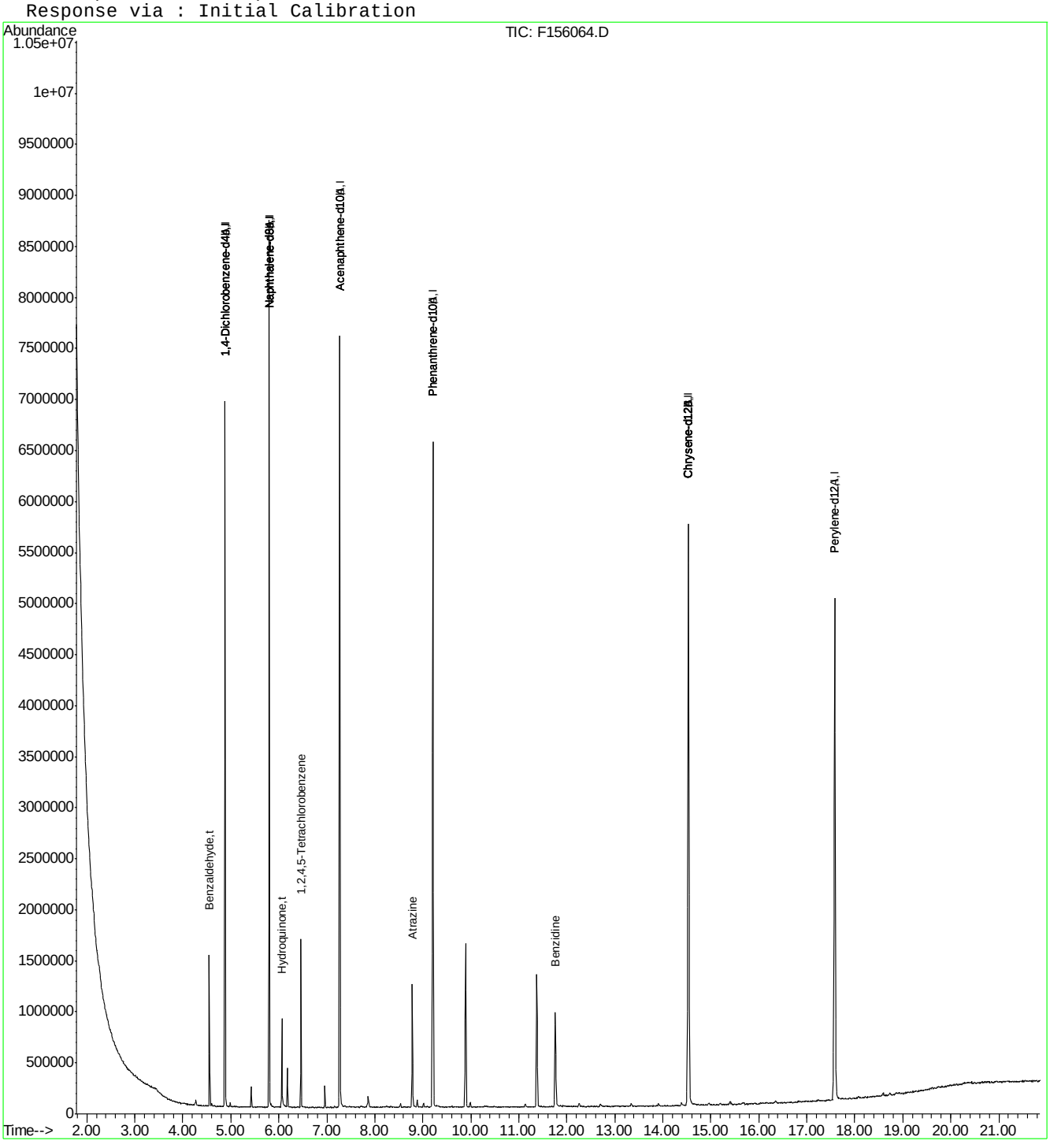
Target Compounds					Qvalue
160) Benzaldehyde	4.55	105	256018	14.17 ppm	94
162) Hydroquinone	6.06	110	302905	11.02 ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	258989	12.92 ppm	98
166) Atrazine	8.78	200	158420	11.47 ppm	97
168) Benzidine	11.76	184	592694	17.63 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156064.D MF6563.M Tue Apr 05 10:10:29 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156064.D Vial: 6
Acq On : 5 Apr 2016 1:22 am Operator: sarad
Sample : ic6564-10 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:10 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156065.D Vial: 7
Acq On : 5 Apr 2016 1:51 am Operator: sarad
Sample : ic6564-5 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:05 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	935945	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3563923	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1902764	40.00 ppm	0.00
69) Phenanthrene-d10	9.21	188	3340344	40.00 ppm	0.00
83) Chrysene-d12	14.53	240	3114492	40.00 ppm	-0.02
92) Perylene-d12	17.59	264	2956755	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	935945	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3563923	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1902764	40.00 ppm	0.00
132) Phenanthrene-d10A	9.21	188	3340344	40.00 ppm	0.00
147) Chrysene-d12A	14.53	240	3114492	40.00 ppm	-0.02
155) Perylene-d12A	17.59	264	2956755	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	935945	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3563923	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1902764	40.00 ppm	0.00
165) Phenanthrene-d10b	9.21	188	3340344	40.00 ppm	0.00
167) Chrysene-d12b	14.53	240	3114492	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	935945	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3563923	40.00 ppm	0.00
176) Chrysene-d12c	14.53	240	3114492	40.00 ppm	-0.02
178) Naphthalene-d8a	5.80	136	3563923	40.00 ppm	0.15
180) Chrysene-d12B	14.53	240	3114492	40.00 ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

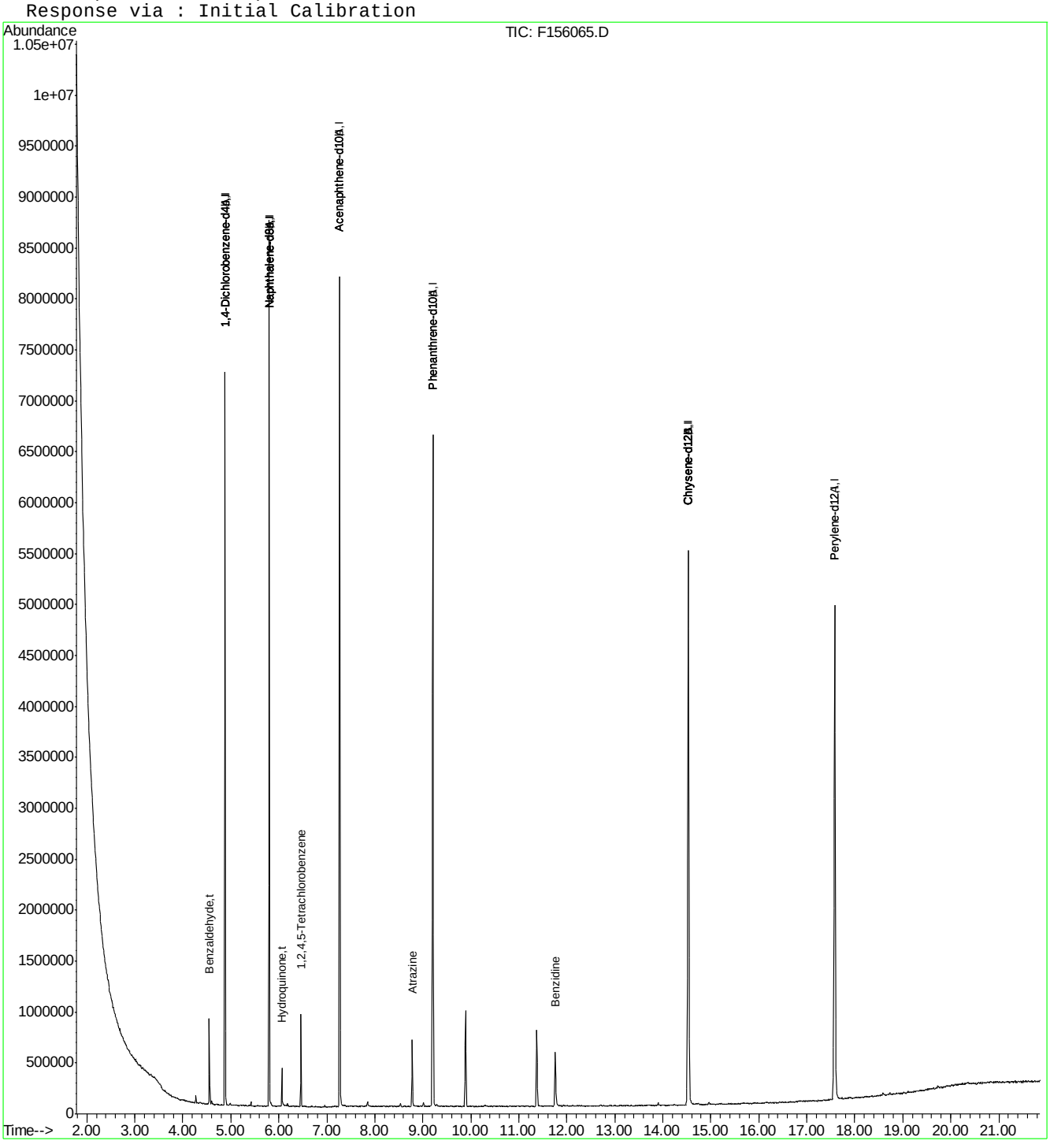
Target Compounds					Qvalue
160) Benzaldehyde	4.55	105	148058	7.75 ppm	91
162) Hydroquinone	6.06	110	146743	5.12 ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	152792	7.30 ppm	97
166) Atrazine	8.78	200	90736	6.46 ppm	95
168) Benzidine	11.76	184	331741	9.68 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156065.D MF6563.M Tue Apr 05 10:11:14 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156065.D Vial: 7
Acq On : 5 Apr 2016 1:51 am Operator: sarad
Sample : ic6564-5 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:11 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156065.D MF6563.M Tue Apr 05 10:11:14 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156066.D Vial: 8
Acq On : 5 Apr 2016 2:19 am Operator: sarad
Sample : ic6564-2 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:33 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	962586	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3652889	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1925626	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3455884	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	3185957	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	3042111	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	962586	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3652889	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1925626	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3455884	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	3185957	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	3042111	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	962586	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3652889	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1925626	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3455884	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	3185957	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	962586	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3652889	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	3185957	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3652889	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	3185957	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

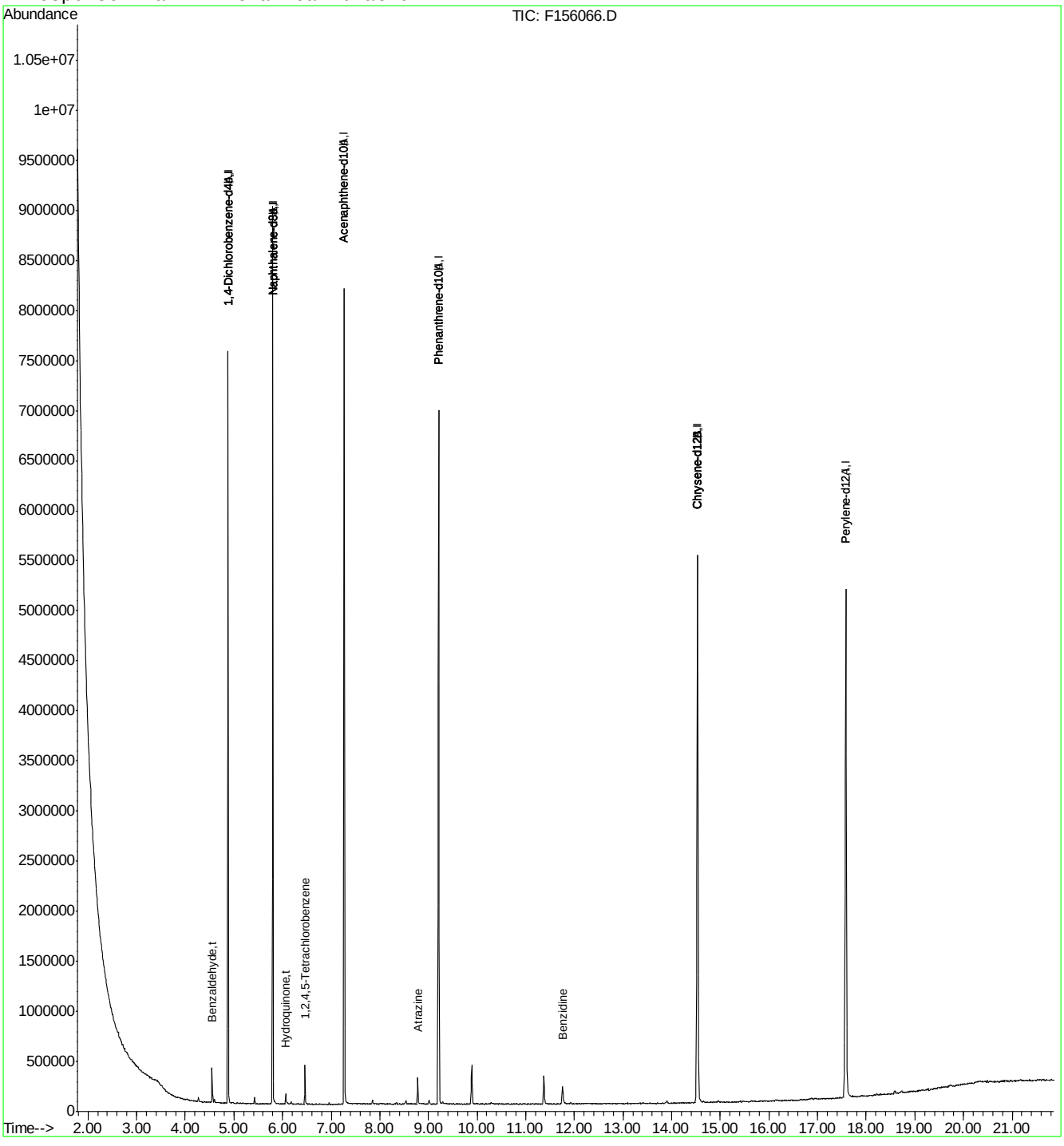
Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	63241	3.22	ppm	94
162) Hydroquinone	6.06	110	48989	1.67	ppm	95
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	62433	2.95	ppm	99
166) Atrazine	8.78	200	35152	2.42	ppm	94
168) Benzidine	11.76	184	117911	3.36	ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156066.D MF6563.M Tue Apr 05 10:12:03 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156066.D Vial: 8
Acq On : 5 Apr 2016 2:19 am Operator: sarad
Sample : ic6564-2 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:11 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156066.D MF6563.M Tue Apr 05 10:12:03 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156067.D Vial: 9
Acq On : 5 Apr 2016 2:48 am Operator: sarad
Sample : ic6564-1 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:35 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	901429	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3431104	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1802430	40.00 ppm	0.00
69) Phenanthrene-d10	9.21	188	3227891	40.00 ppm	0.00
83) Chrysene-d12	14.53	240	3012466	40.00 ppm	-0.02
92) Perylene-d12	17.58	264	2866400	40.00 ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	901429	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3431104	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1802430	40.00 ppm	0.00
132) Phenanthrene-d10A	9.21	188	3227891	40.00 ppm	0.00
147) Chrysene-d12A	14.53	240	3012466	40.00 ppm	-0.02
155) Perylene-d12A	17.58	264	2866400	40.00 ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	901429	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3431104	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1802430	40.00 ppm	0.00
165) Phenanthrene-d10b	9.21	188	3227891	40.00 ppm	0.00
167) Chrysene-d12b	14.53	240	3012466	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	901429	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3431104	40.00 ppm	0.00
176) Chrysene-d12c	14.53	240	3012466	40.00 ppm	-0.02
178) Naphthalene-d8a	5.80	136	3431104	40.00 ppm	0.15
180) Chrysene-d12B	14.53	240	3012466	40.00 ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

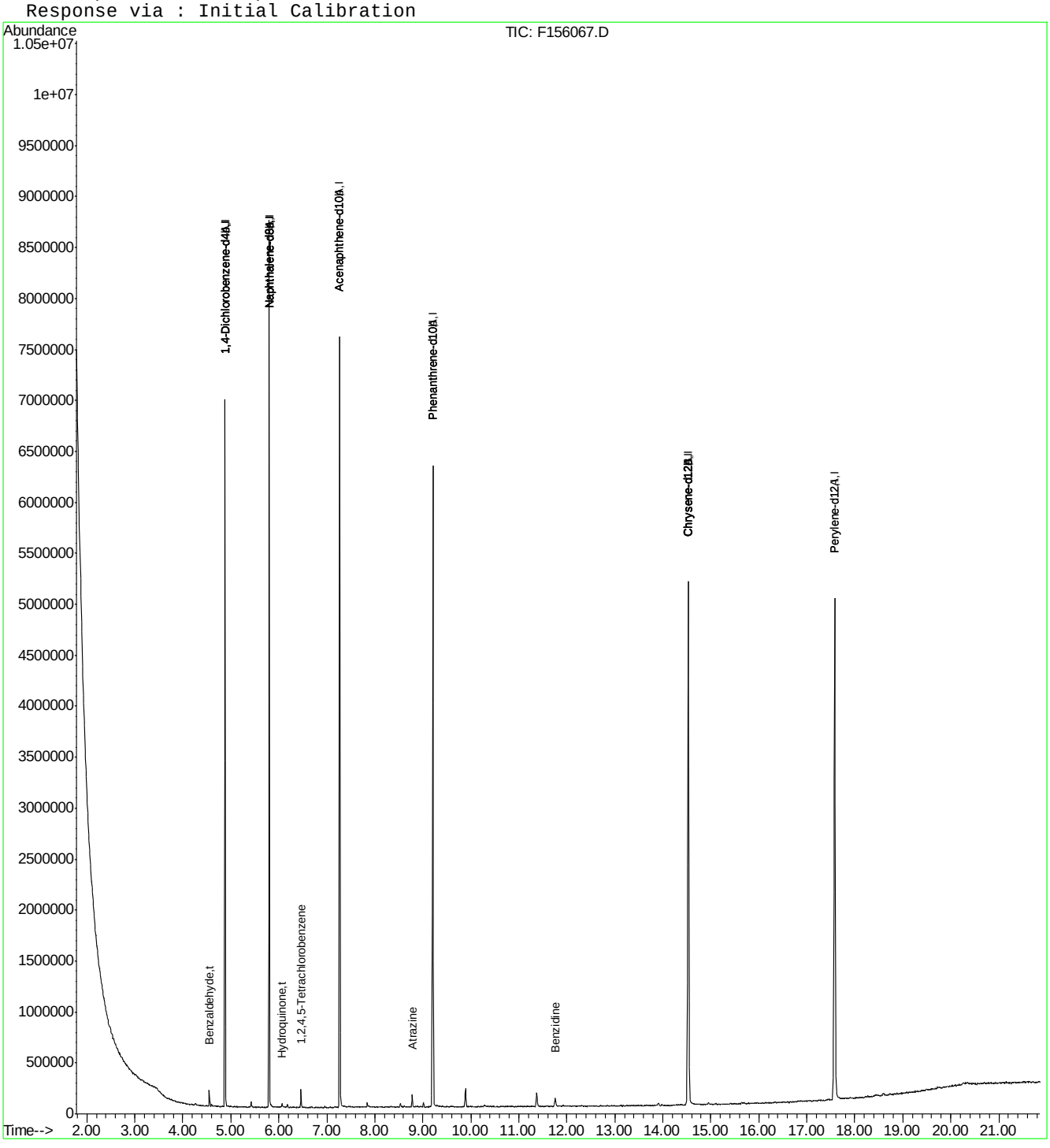
Target Compounds					Qvalue
160) Benzaldehyde	4.56	105	30190	1.64 ppm	94
162) Hydroquinone	6.06	110	21604	0.78 ppm	94
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	29618	1.49 ppm	95
166) Atrazine	8.78	200	16149	1.19 ppm	98
168) Benzidine	11.76	184	50022	1.51 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156067.D MF6563.M Tue Apr 05 10:12:49 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156067.D Vial: 9
Acq On : 5 Apr 2016 2:48 am Operator: sarad
Sample : ic6564-1 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:12 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156067.D MF6563.M Tue Apr 05 10:12:49 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D Vial: 11
Acq On : 5 Apr 2016 3:46 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:36:52 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	864272	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3423451	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2005879	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3116817	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2569410	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1956035	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	864272	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3423451	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2005879	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3116817	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2569410	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1956035	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	864272	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3423451	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2005879	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3116817	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2569410	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	864272	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3423451	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2569410	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3423451	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2569410	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
3) Pyridine	2.86	79	1586125	50.31	ppm	99
10) Aniline	4.64	93	2279154	52.93	ppm	100
16) Benzyl alcohol	4.98	108	994014	48.58	ppm	97
39) 4-Chloroaniline	5.85	127	1781416	46.15	ppm	97
44) 2-Methylnaphthalene	6.33	141	2274002	43.13	ppm	100
54) 2-Nitroaniline	6.82	65	730620	44.48	ppm	99
58) 3-Nitroaniline	7.21	138	763794	43.52	ppm	98
62) Dibenzofuran	7.49	168	3529125	43.82	ppm	100
68) 4-Nitroaniline	7.90	138	731613	41.28	ppm	98
79) Carbazole	9.61	167	3790834	44.96	ppm	99

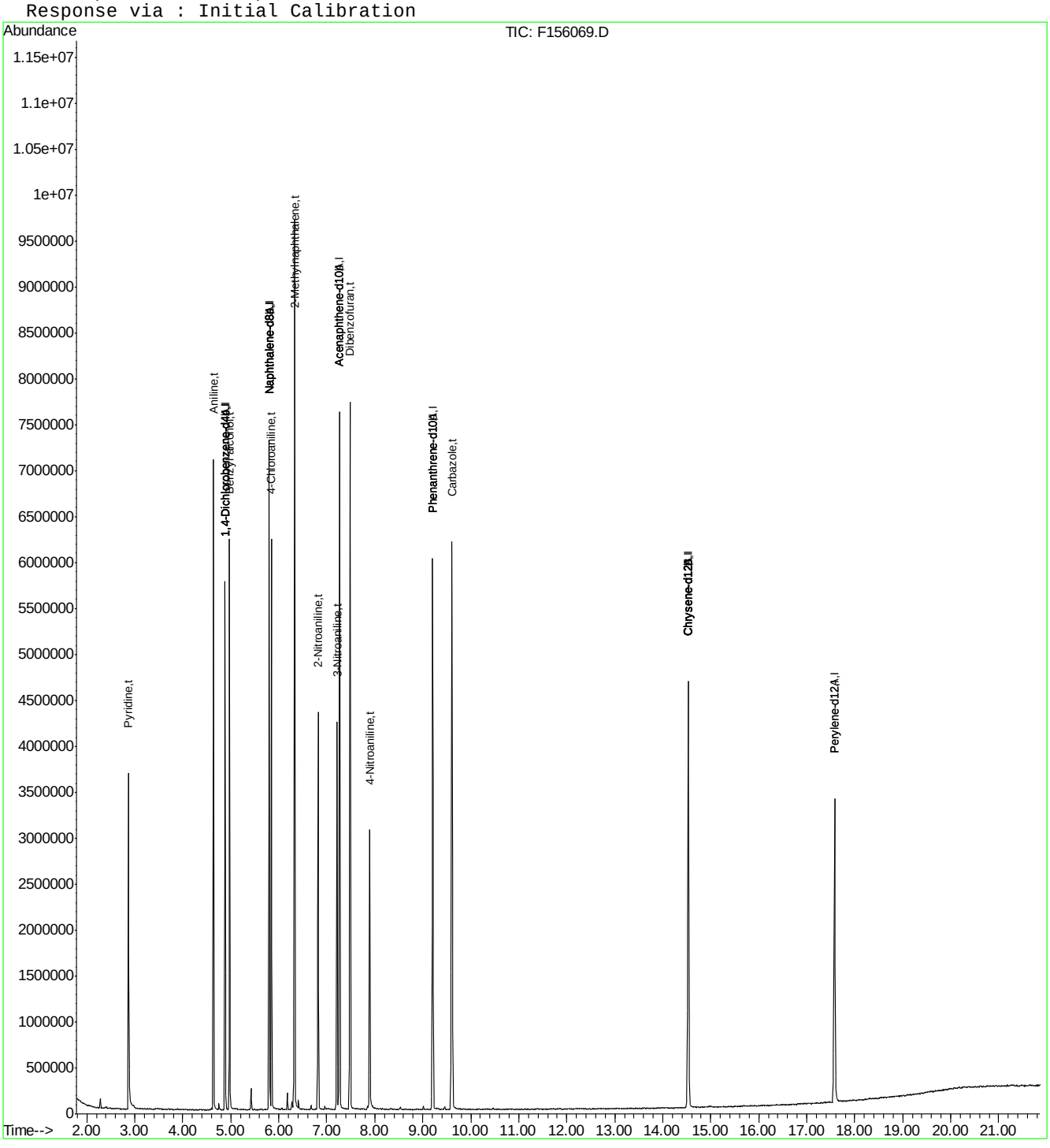
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D Vial: 11
Acq On : 5 Apr 2016 3:46 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:38 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D Vial: 12
Acq On : 5 Apr 2016 4:15 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:46:20 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:45:41 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	887640	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3267655	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1882697	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2875140	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2396451	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2121009	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	887640	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3267655	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1882697	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2875140	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2396451	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2121009	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	887640	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3267655	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1882697	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2875140	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2396451	40.00	ppm	0.13
169) 1,4-Dichlorobenzene-d4c	4.88	152	887640	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3267655	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2396451	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3267655	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2396451	40.00	ppm	0.22

System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	1362727	43.66	ppm	0.00
Spiked Amount 50.000			Recovery = 87.32%			
8) Phenol-d5	4.60	99	1634955	43.07	ppm	0.00
Spiked Amount 50.000			Recovery = 86.14%			
25) Nitrobenzene-d5	5.28	82	1353390	44.35	ppm	0.00
Spiked Amount 50.000			Recovery = 88.70%			
51) 2-Fluorobiphenyl	6.63	172	2602481	43.31	ppm	0.00
Spiked Amount 50.000			Recovery = 86.62%			
73) 2,4,6-Tribromophenol	8.19	330	257319	43.86	ppm	-0.01
Spiked Amount 50.000			Recovery = 87.72%			
85) Terphenyl-d14	12.30	244	2096294	43.07	ppm	0.00
Spiked Amount 50.000			Recovery = 86.14%			

Target Compounds Qvalue

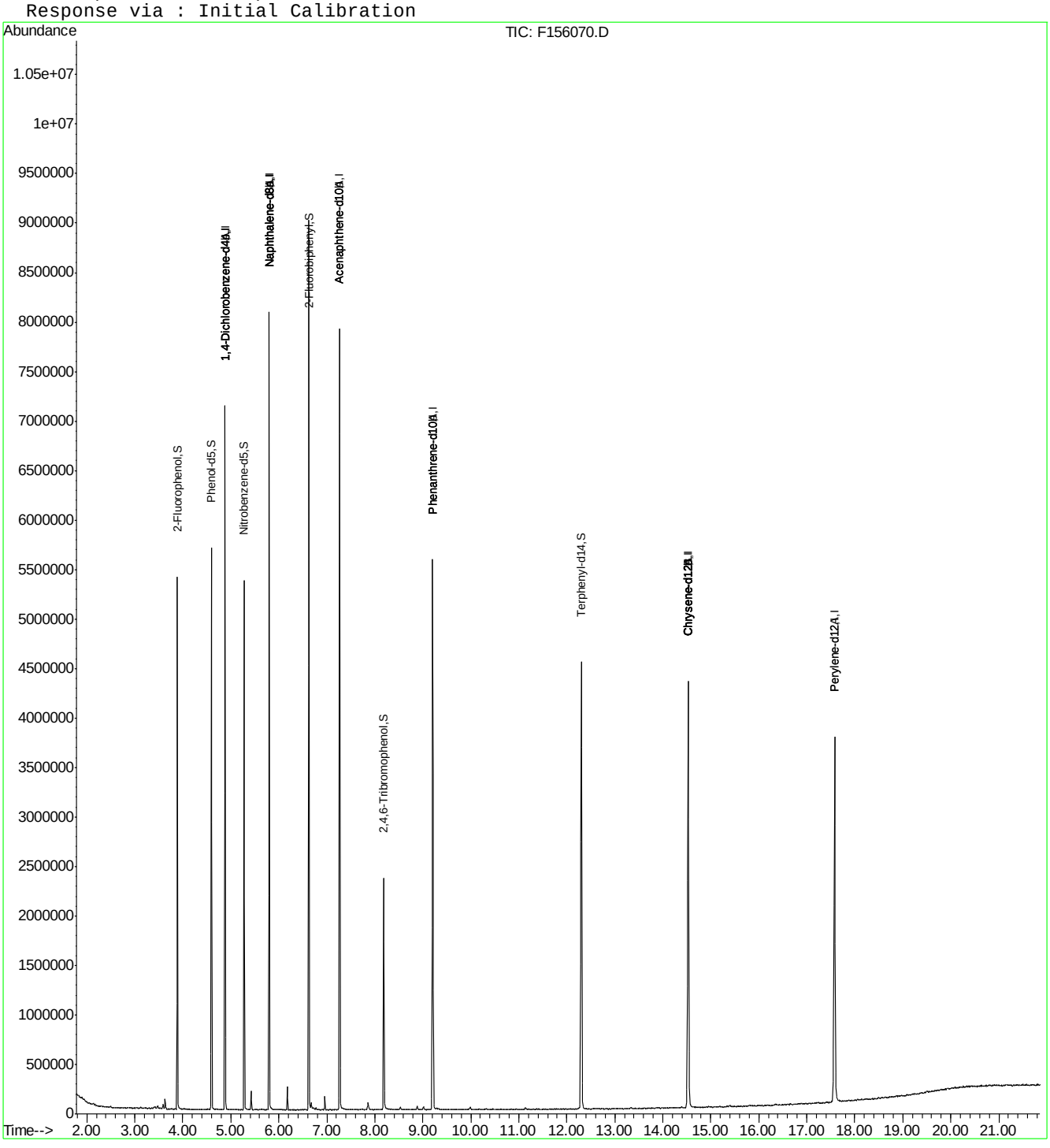
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156070.D MF6563.M Wed Apr 06 15:30:52 2016 RT1

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D Vial: 12
Acq On : 5 Apr 2016 4:15 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:39 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



F156070.D MF6563.M Wed Apr 06 15:30:52 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	791654	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2940255	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1650821	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2527126	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2041490	40.00	ppm	-0.01
92) Perylene-d12	17.58	264	1894786	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	791654	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2940255	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1650821	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2527126	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2041490	40.00	ppm	-0.01
155) Perylene-d12A	17.58	264	1894786	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	791654	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2940255	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1650821	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2527126	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2041490	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	791654	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2940255	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2041490	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	2940255	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2041490	40.00	ppm	0.23

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

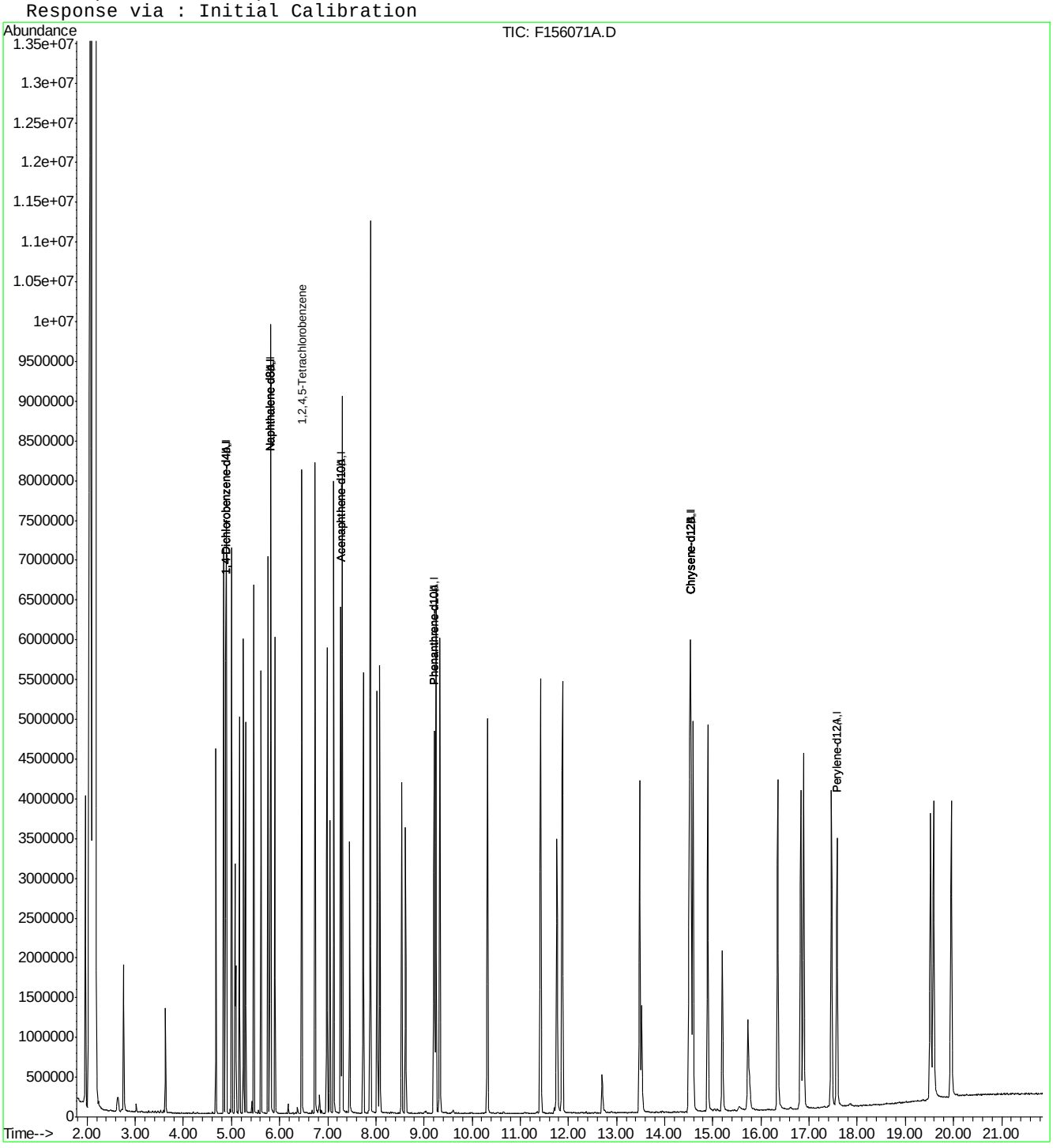
Target Compounds						Qvalue
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	1023403	44.56	ppm	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	791654	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2940255	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1650821	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2527126	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2041490	40.00	ppm	-0.01
92) Perylene-d12	17.58	264	1894786	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	791654	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2940255	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1650821	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2527126	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2041490	40.00	ppm	-0.01
155) Perylene-d12A	17.58	264	1894786	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	791654	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2940255	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1650821	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2527126	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2041490	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	791654	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2940255	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2041490	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	2940255	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2041490	40.00	ppm	0.23

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
4) N-Nitrosodimethylamine	2.76	42	485916	46.76	ppm	98
11) bis(2-Chloroethyl)ether	4.68	93	1249072	48.18	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	1514832	46.47	ppm	98
15) 1,4-Dichlorobenzene	4.89	146	1530755	47.07	ppm	100
17) 1,2-Dichlorobenzene	5.00	146	1452410	47.50	ppm	98
20) 2,2'-oxybis(1-Chloropropan	5.08	121	402803	43.10	ppm	97
22) n-Nitroso-di-n-propylamine	5.17	70	882539	46.14	ppm	94
23) Hexachloroethane	5.25	201	468808	46.54	ppm	96
26) Nitrobenzene	5.29	77	1327194	46.15	ppm	94
28) Isophorone	5.46	82	2413879	49.15	ppm	96
32) bis(2-Chloroethoxy)methane	5.62	93	1407061	45.46	ppm	99
36) 1,2,4-Trichlorobenzene	5.76	180	1103469	45.47	ppm	98

(#) = qualifier out of range (m) = manual integration
F156071.D MF6563.M Thu Apr 07 09:52:13 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Naphthalene	5.82	128	3790901	47.22	ppm	99
42)	Hexachlorobutadiene	5.90	225	535368	46.60	ppm	99
52)	2-Chloronaphthalene	6.74	162	2215777	46.45	ppm	97
55)	Dimethylphthalate	6.98	163	2349889	44.02	ppm	100
56)	Acenaphthylene	7.13	152	3539399	45.77	ppm	99
57)	2,6-Dinitrotoluene	7.05	165	515828	44.71	ppm	93
59)	Acenaphthene	7.30	153	2278169	46.91	ppm	99
63)	2,4-Dinitrotoluene	7.46	165	654129	41.83	ppm	99
65)	Diethylphthalate	7.74	149	2254990	42.74	ppm	100
66)	Fluorene	7.89	166	2284573	44.79	ppm	100
67)	4-Chlorophenyl-phenylether	7.89	204	961950	42.80	ppm	96
71)	n-Nitrosodiphenylamine	8.03	169	1599662	44.14	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	2466045	49.23	ppm	100
74)	4-Bromophenyl-phenylether	8.54	248	568052	46.63	ppm	99
75)	Hexachlorobenzene	8.62	284	556035	47.82	ppm	95
77)	Phenanthrene	9.25	178	3414104	46.87	ppm	98
78)	Anthracene	9.33	178	3410039	46.76	ppm	99
80)	Di-n-butylphthalate	10.32	149	3880513	45.44	ppm	100
81)	Fluoranthene	11.42	202	3358980	46.50	ppm	99
84)	Pyrene	11.88	202	3587015	49.54	ppm	98
86)	Butylbenzylphthalate	13.48	149	1628471	45.79	ppm	98
88)	Benzo[a]anthracene	14.52	228	2835540	45.86	ppm	100
90)	Chrysene	14.59	228	2848434	46.34	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.89	149	2239893	45.45	ppm	98
93)	Di-n-octylphthalate	16.35	149	3823114	46.05	ppm	99
94)	Benzo[b]fluoranthene	16.83	252	2720341	46.45	ppm	99
95)	Benzo[k]fluoranthene	16.89	252	2848494	49.70	ppm	99
96)	Benzo[a]pyrene	17.47	252	2596492	48.44	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.53	276	2372059	47.96	ppm	99
99)	Dibenz[a,h]anthracene	19.59	278	2304304	48.15	ppm	98
101)	Benzo[g,h,i]perylene	19.95	276	2556304	47.82	ppm	97

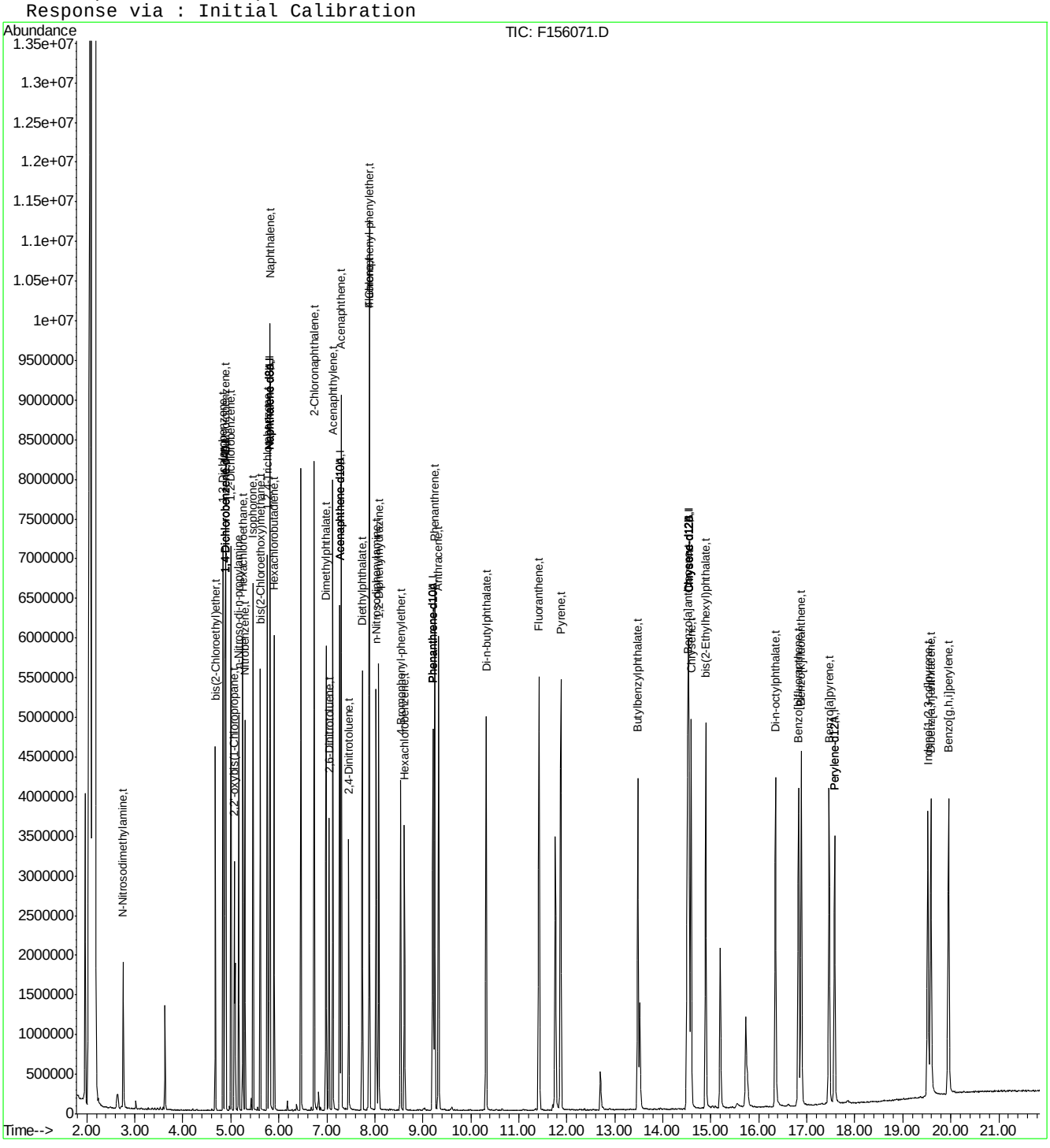
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	857846	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3576668	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1817820	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2775738	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2296061	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1979067	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	857846	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3576668	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1817820	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2775738	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2296061	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1979067	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	857846	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3576668	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1817820	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2775738	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2296061	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	857846	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3576668	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2296061	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3576668	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2296061	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.49	88	587733	44.25	ppm	97
6) Indene	5.07	116	2402169	47.31	ppm	99
7) Cumene	4.29	105	3028952	44.41	ppm	100
13) Decane	4.76	43	1199734	43.79	ppm	97
18) Acetophenone	5.17	105	1787382	46.56	ppm	92
27) Quinoline	6.05	129	2584470	37.39	ppm	97
41) Caprolactam	6.09	55	501453	36.96	ppm	97
45) 1-Methylnaphthalene	6.41	141	2097104	36.99	ppm	99
46) Dimethylnaphthalene	6.86	156	2148084	37.40	ppm	100
48) Hexachlorocyclopentadiene	6.46	237	630910	51.15	ppm	99
53) Biphenyl	6.72	154	2917712	43.26	ppm	100
82) Octadecane	9.10	57	1516617	46.58	ppm	100

(#) = qualifier out of range (m) = manual integration
F156072.D MF6563.M Thu Apr 07 09:52:51 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

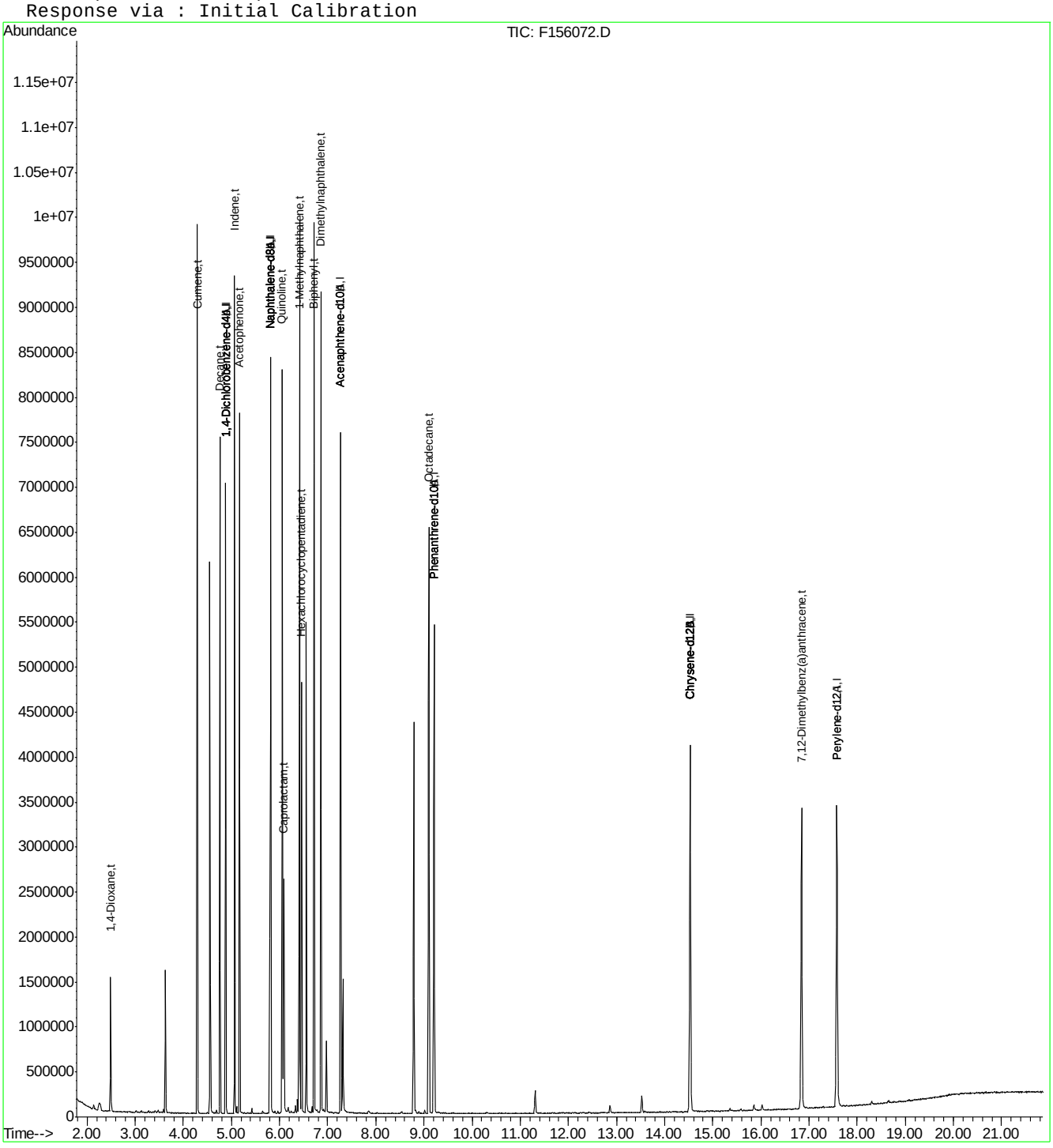
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
100) 7,12-Dimethylbenz(a)anthra	16.84	256	1106284	46.32 ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156072.D MF6563.M Thu Apr 07 09:52:51 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



F156072.D MF6563.M Thu Apr 07 09:52:52 2016 RT1 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	857846	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3576668	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1817820	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2775738	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2296061	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1979067	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	857846	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3576668	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1817820	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2775738	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2296061	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1979067	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	857846	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3576668	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1817820	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2775738	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2296061	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	857846	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3576668	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2296061	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3576668	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2296061	40.00	ppm	0.22

System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

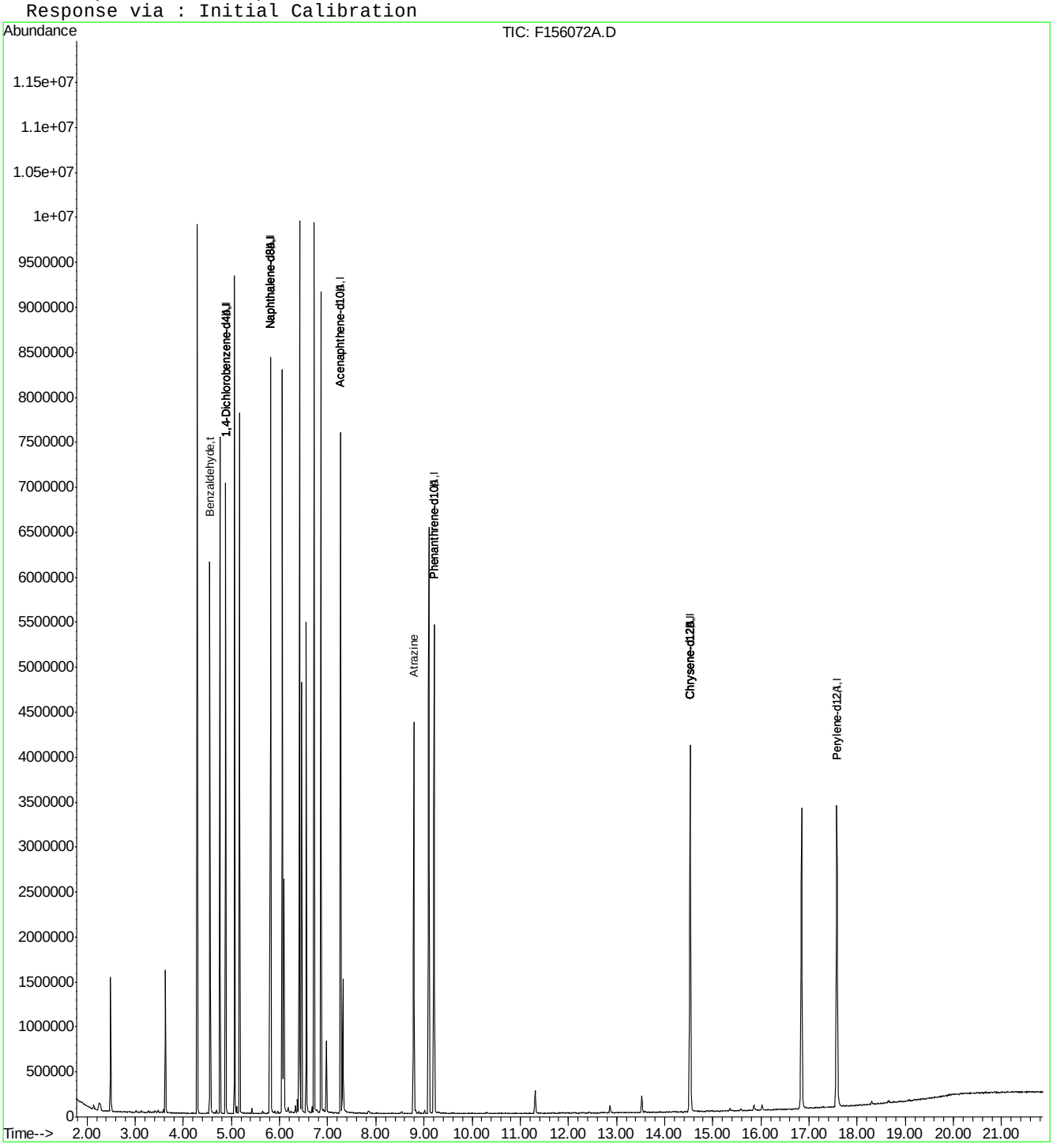
Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1094500	45.31	ppm	99
166) Atrazine	8.79	200	597779	44.80	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



F156072A.D MF6563.M Thu Apr 07 09:53:25 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:58:25 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	909903	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3328731	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1966387	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3138917	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2735429	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2564354	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	909903	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3328731	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1966387	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3138917	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2735429	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2564354	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	909903	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3328731	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1966387	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3138917	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2735429	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	909903	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3328731	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2735429	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3328731	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2735429	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

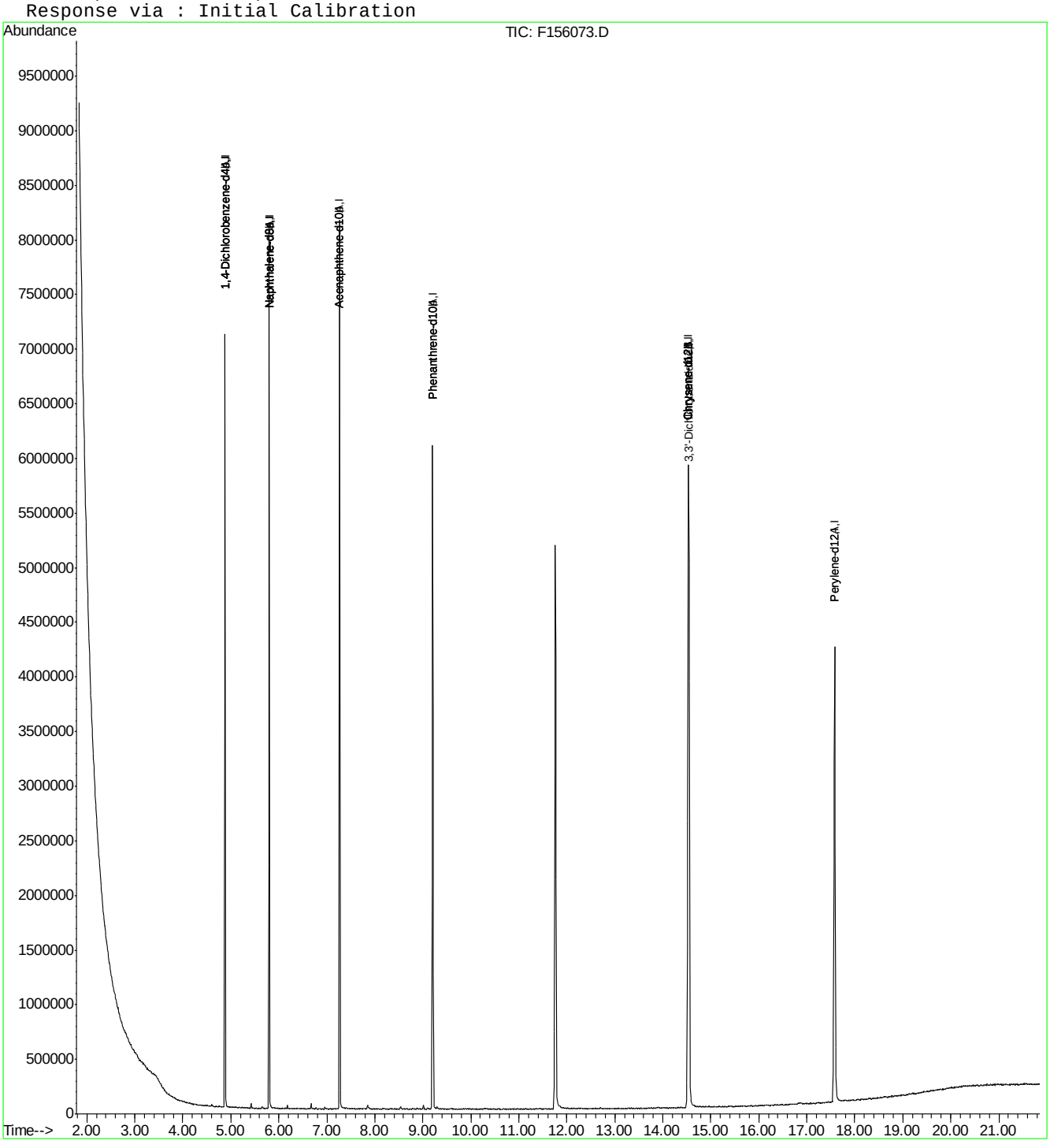
						Qvalue
89) 3,3'-Dichlorobenzidine	14.55	252	1355321	46.96	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156073.D MF6563.M Thu Apr 07 09:53:52 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:58:25 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	909903	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3328731	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1966387	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3138917	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2735429	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2564354	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	909903	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3328731	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1966387	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3138917	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2735429	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2564354	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	909903	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3328731	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1966387	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3138917	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2735429	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	909903	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3328731	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2735429	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3328731	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2735429	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

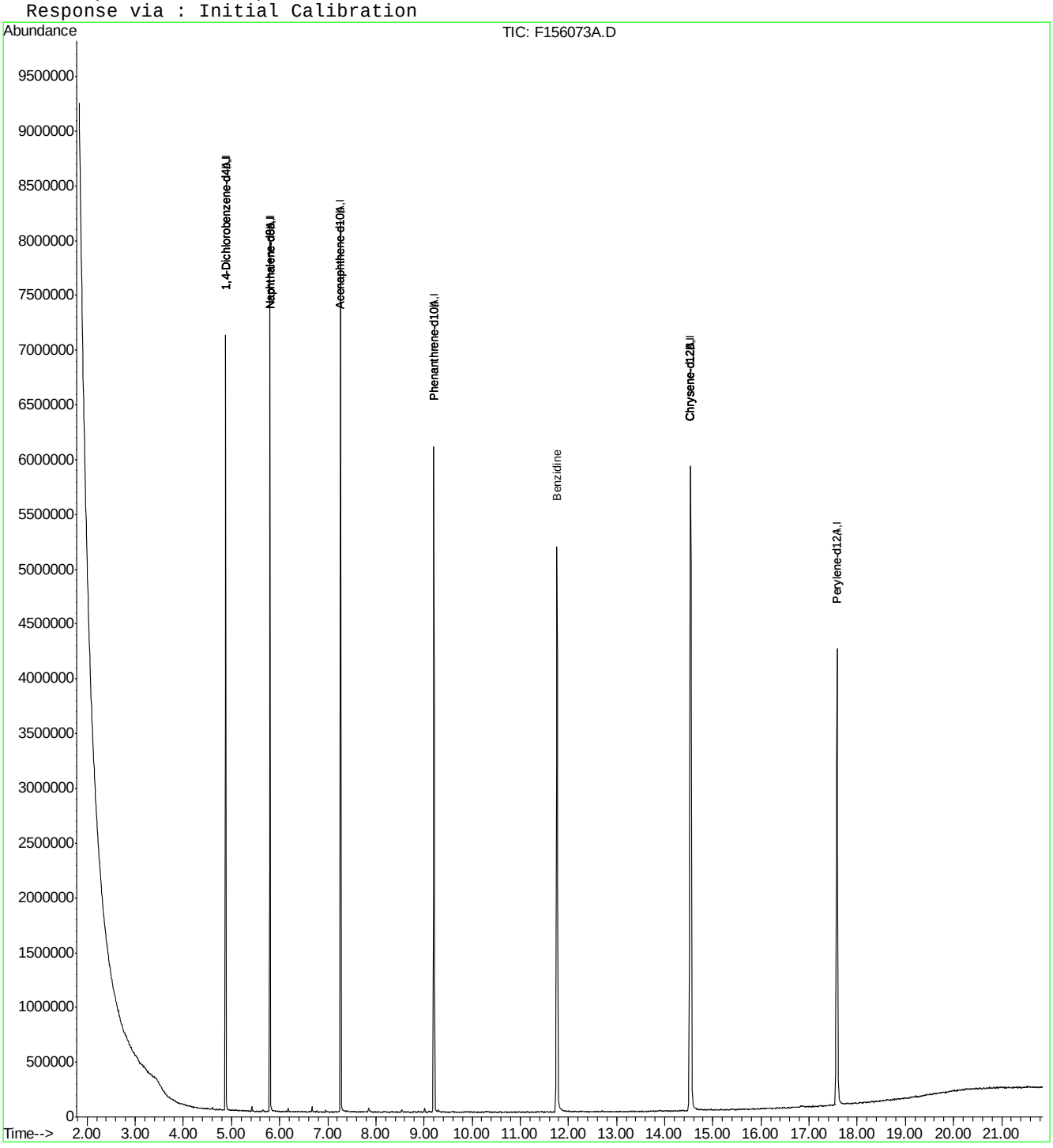
Target Compounds						Qvalue
168) Benzidine	11.76	184	3118781	65.60	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



F156073A.D MF6563.M Thu Apr 07 09:54:03 2016 RT1 Page 2

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:44:32 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	615006	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2427861	40.00	ppm	0.00
47) Acenaphthene-d10	7.28	164	1469461	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2330846	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2163632	40.00	ppm	-0.02
92) Perylene-d12	17.60	264	1999769	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	615006	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2427861	40.00	ppm	0.00
121) Acenaphthene-d10A	7.28	164	1469461	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2330846	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2163632	40.00	ppm	0.00
155) Perylene-d12A	17.60	264	1999769	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	615006	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2427861	40.00	ppm	0.00
163) Acenaphthene-d10b	7.28	164	1469461	40.00	ppm	0.01
165) Phenanthrene-d10b	9.22	188	2330846	40.00	ppm	0.01
167) Chrysene-d12b	14.53	240	2163632	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	615006	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2427861	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2163632	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2427861	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	2163632	40.00	ppm	0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.41	93	2412394	100.00	ppm	95
104) Pentachloroethane	4.67	167	770959	100.00	ppm	88
105) Methyl methanesulfonate	3.75	80	1201536	100.00	ppm	97
106) N-Nitrosodiethylamine	4.07	102	1034857	100.00	ppm	95
107) N-Nitrosomethylethylamine	3.51	42	978966	100.00	ppm	98
108) Ethyl methanesulfonate	4.30	79	1696672	100.00	ppm	92
109) N-Nitrosopyrrolidine	5.17	41	844854m	99.84	ppm	
110) N-Nitrosomorpholine	5.19	56	1116118	100.00	ppm	92
111) o-Toluidine	5.20	106	2859129	100.00	ppm	96
113) O,O,O-Triethyl phosphoroth	5.60	198	829669	100.00	ppm	97
114) N-Nitrosopiperidine	5.41	42	1265979	100.00	ppm	92
115) A,A-Dimethylphenethylamine	5.74	58	5198037m	99.71	ppm	

(#) = qualifier out of range (m) = manual integration
F156080.D MF6563AP9.M Fri Apr 08 17:17:12 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:44:32 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	1061513	100.00	ppm		98
117)	p-Phenylenediamine	6.34	108	860205m	99.85	ppm		
118)	N-Nitrosodi-n-butylamine	6.10	84	1440509	84.78	ppm		97
119)	Safrole	6.26	162	1438890	100.23	ppm		96
120)	Isosafrole	6.68	162	518965	99.94	ppm		98
122)	Thionazin	7.85	143	534963	100.00	ppm		97
123)	Tetraethyl dithiopyrophosp	8.26	322	461062	100.00	ppm		100
124)	Phorate	8.45	75	2983140	99.57	ppm		100
125)	Phenacetin	8.48	108	2403334	100.00	ppm		98
126)	1,4-Naphthoquinone	6.90	158	869552	100.00	ppm		90
127)	m-Dinitrobenzene	7.02	168	690301	100.08	ppm	#	63
128)	Pentachlorobenzene	7.45	250	1282663	100.00	ppm		99
129)	1-Naphthylamine	7.58	143	3032532	100.00	ppm		94
130)	2-Naphthylamine	7.67	143	3583857	99.59	ppm		100
131)	5-Nitro-o-toluidine	7.91	152	1297405	100.00	ppm		85
133)	Disulfoton	9.26	88	2339129	98.18	ppm		95
134)	Dinoseb	9.24	211	1021715	100.00	ppm		97
135)	Dimethoate	8.70	87	1638217	99.46	ppm		95
136)	4-Aminobiphenyl	8.94	169	3656990	199.23	ppm		99
137)	Methyl parathion	9.89	125	1069331	100.00	ppm		90
138)	Parathion	10.65	109	893865	98.45	ppm		93
139)	Diphenylamine	8.04	169	5555153	100.03	ppm		99
140)	Isodrin	11.13	193	660659	99.79	ppm		97
141)	Diallate	8.56	86	381507	78.70	ppm		92
142)	Pentachloronitrobenzene	8.95	295	308213	200.00	ppm		96
143)	Pronamide	9.05	173	1786485	100.00	ppm		96
144)	4-Nitroquinoline 1-oxide	10.66	190	2445665	400.10	ppm		91
145)	Methapyriline	10.93	58	1124424	99.16	ppm		97
146)	sym-Trinitrobenzene	8.39	213	432643	100.15	ppm	#	67
148)	Aramite	12.53	185	367436	199.73	ppm		94
149)	p-(Dimethylamine)azobenzen	12.64	120	2076469	100.00	ppm		68
150)	Kepone	13.36	272	1055754	600.00	ppm		99
151)	Famphur	13.32	218	3732778	600.00	ppm		94
152)	2-Acetylaminofluorene	13.93	181	2794738	100.08	ppm		96
153)	3,3'-Dimethylbenzidine	13.38	212	458737	100.00	ppm		98
154)	Chlorobenzilate	12.77	251	1594418	100.00	ppm		97
156)	4,4-Methylene-bis-(2-chlor	14.60	266	431157	89.95	ppm		89
157)	3-Methylcholanthrene	18.22	268	2620657	99.59	ppm		96
158)	Hexachlorophene	17.35	196	2516592	599.47	ppm		99

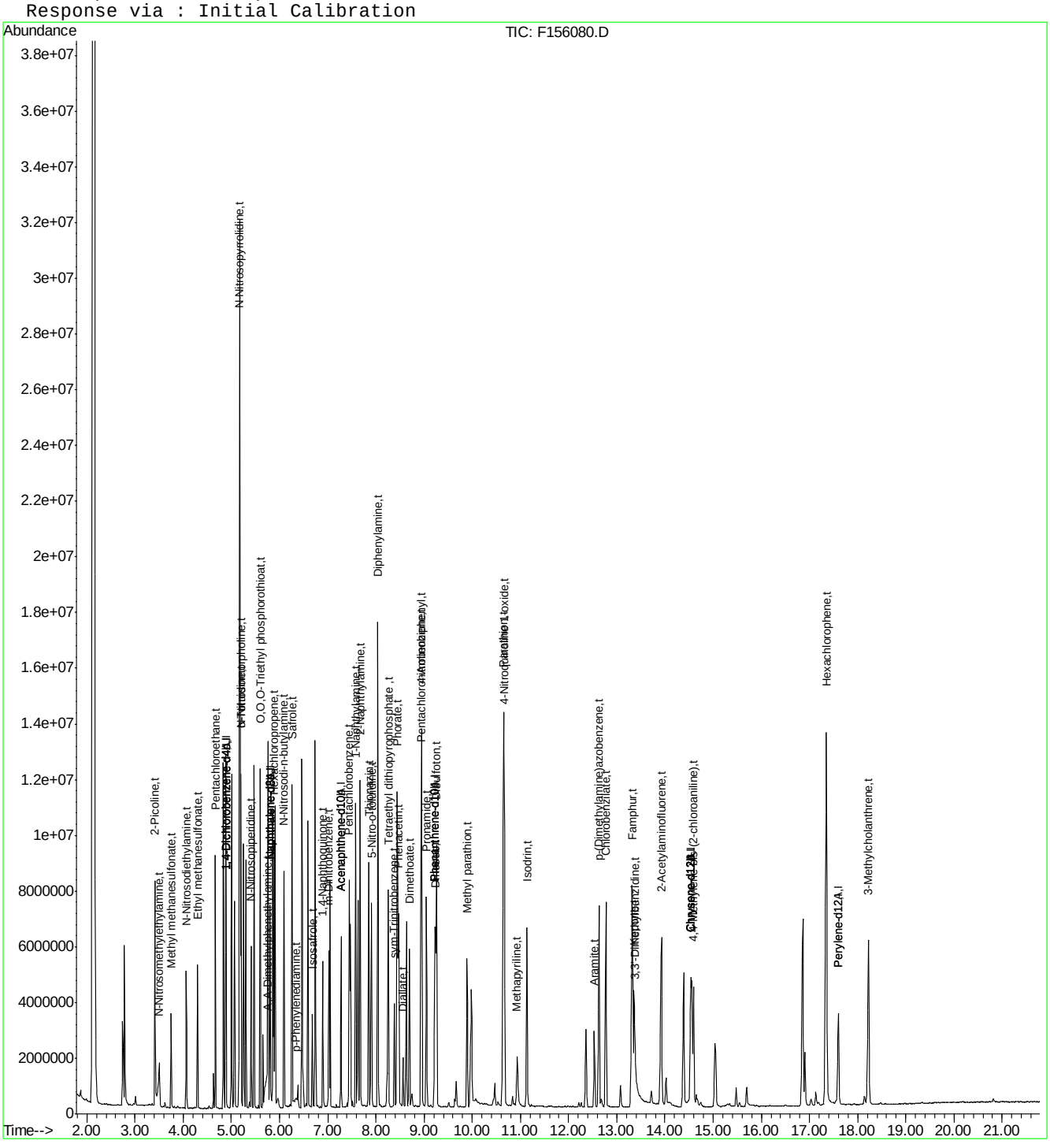
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:48 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156080.D MF6563AP9.M Fri Apr 08 17:17:12 2016 RT1 Page 3

SGS ACCUTEST JC19423

Manual Integration Approval Summary

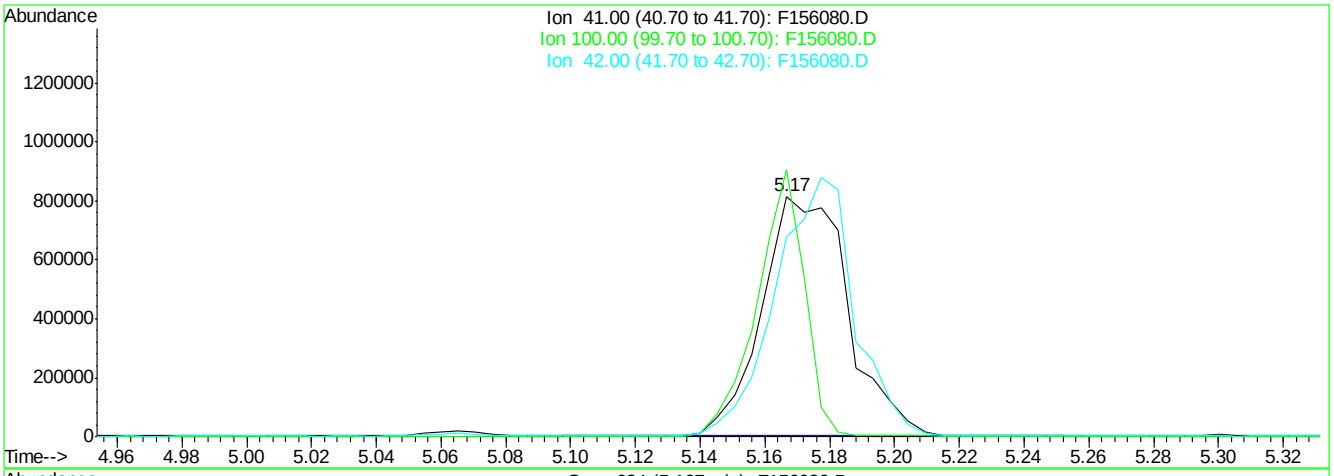
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156080.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 14:12	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

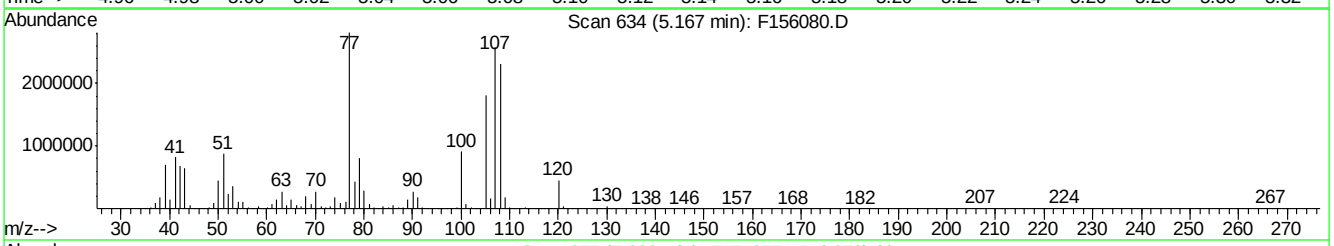
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.17	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.74	Split peak
p-Phenylenediamine	106-50-3		6.34	Split peak

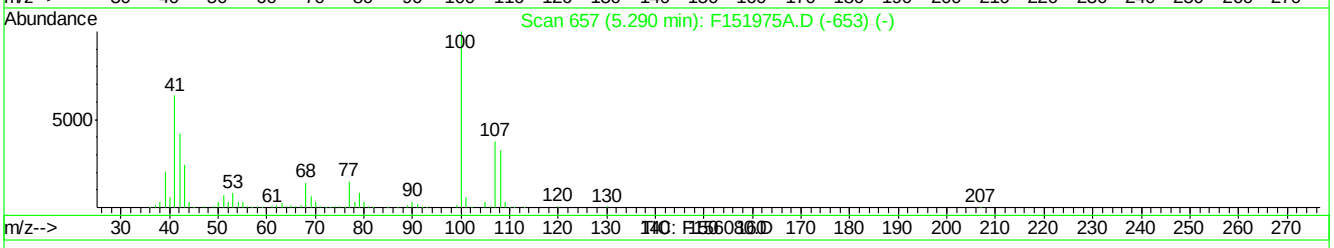
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.17min 178.23ppm

response 1508213

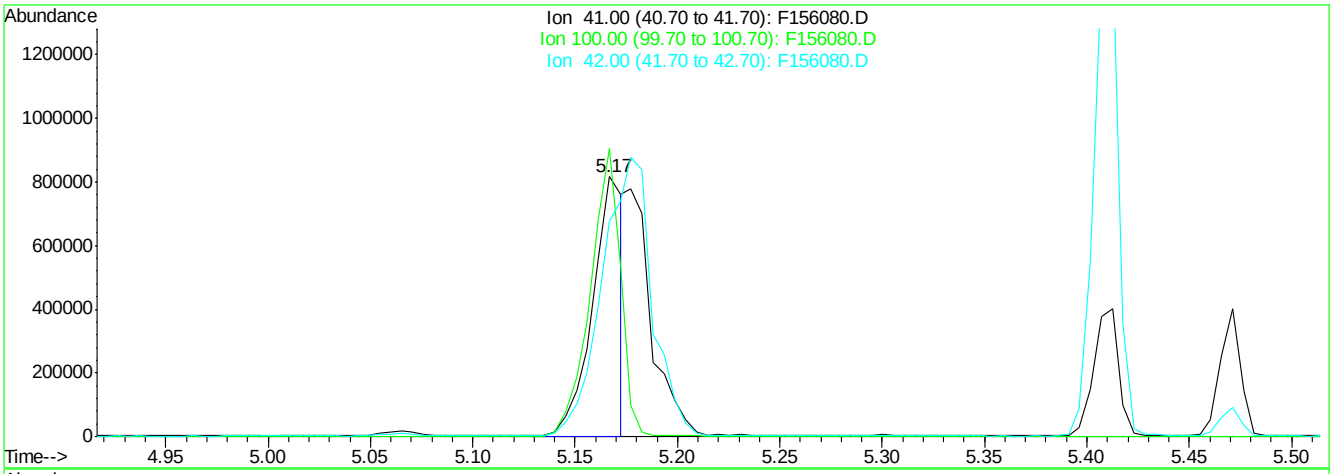
Ion	Exp%	Act%
41.00	100	100
100.00	153.60	111.28#
42.00	69.80	82.92
0.00	0.00	0.00

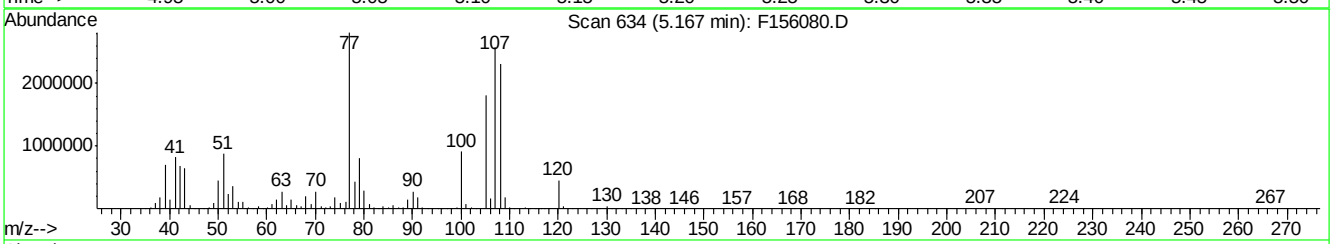
F156080.D MF6563AP9.M Fri Apr 08 15:45:31 2016 RT1

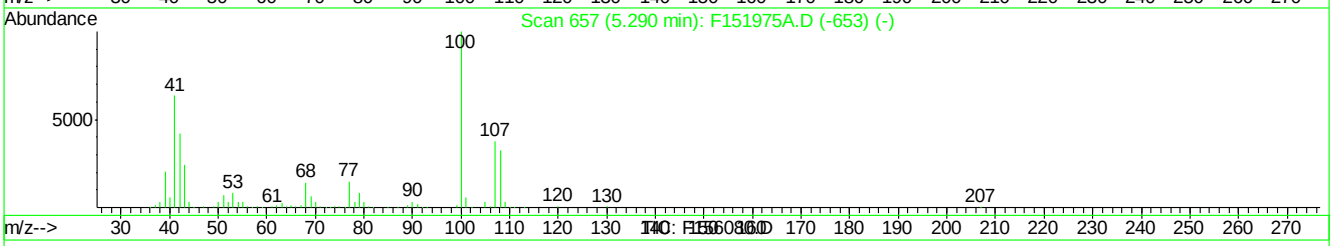
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.17min 99.84ppm m

response 844854

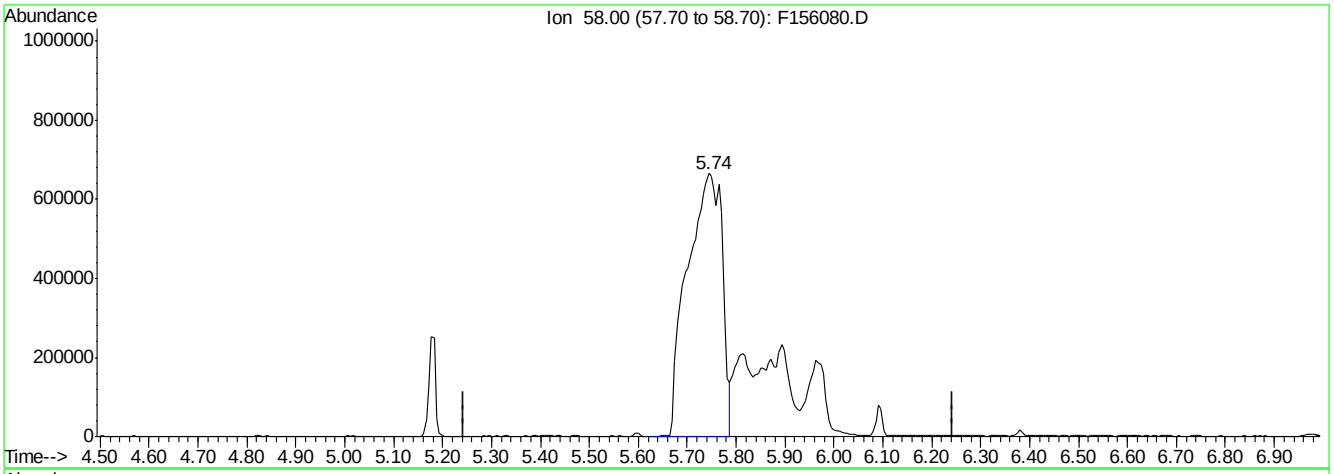
Ion	Exp%	Act%
41.00	100	100
100.00	153.60	110.94#
42.00	69.80	82.92
0.00	0.00	0.00

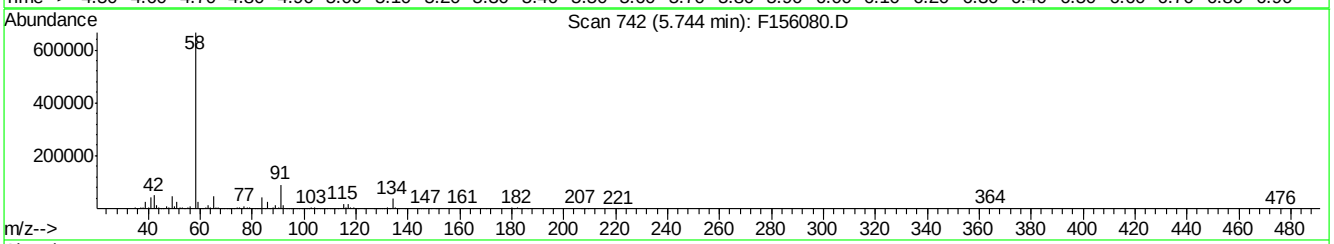
F156080.D MF6563AP9.M Fri Apr 08 15:46:27 2016 RT1

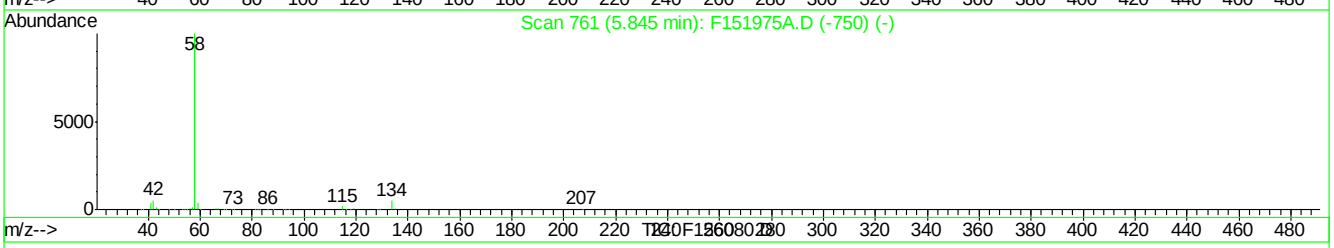
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.74min 62.71ppm

response 3269400

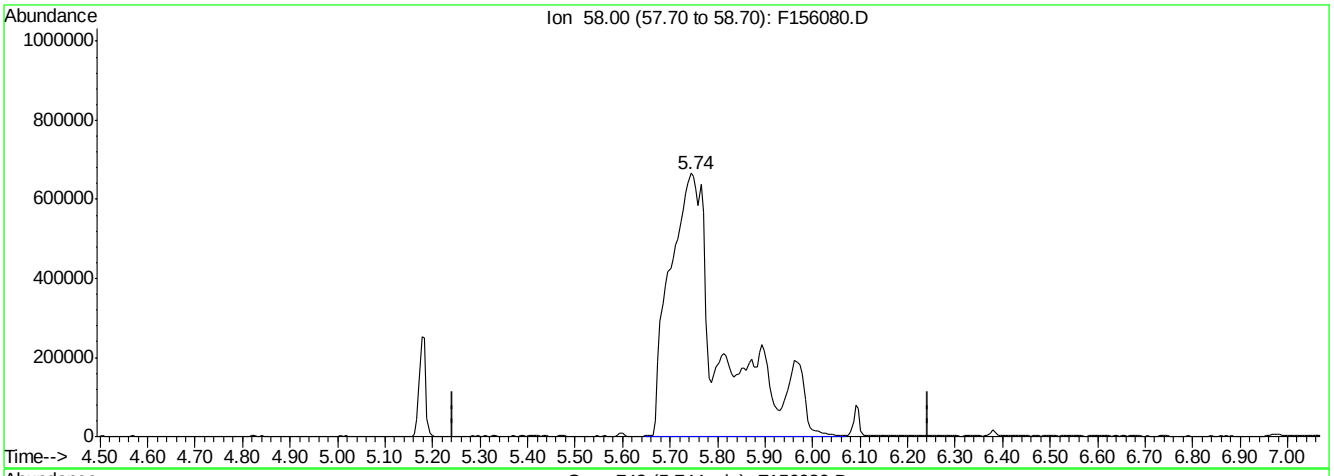
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

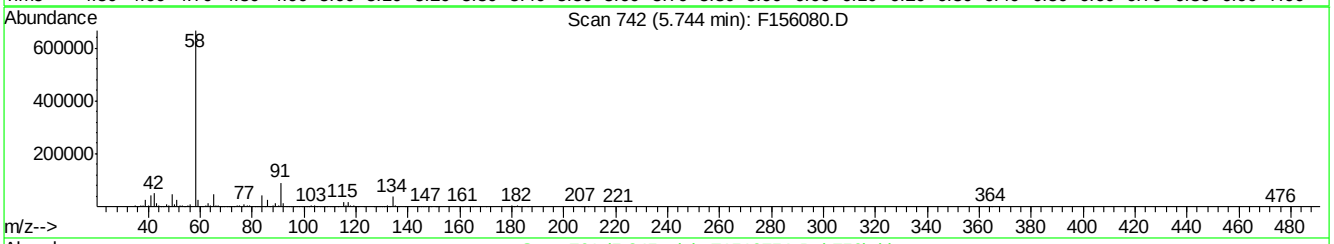
F156080.D MF6563AP9.M Fri Apr 08 15:46:35 2016 RT1

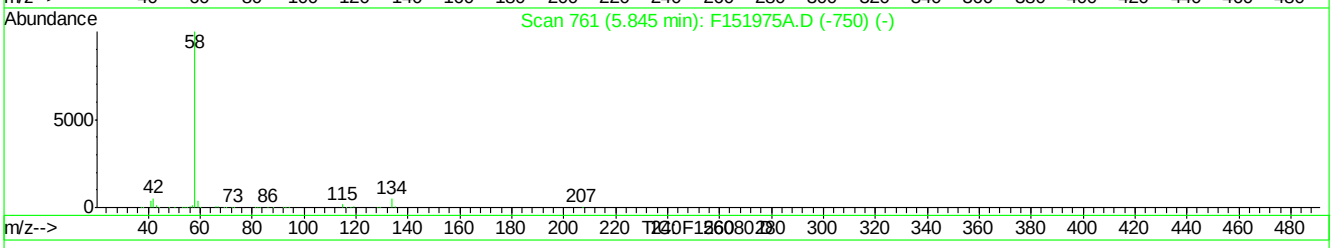
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:47 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.74min 99.71ppm m

response 5198037

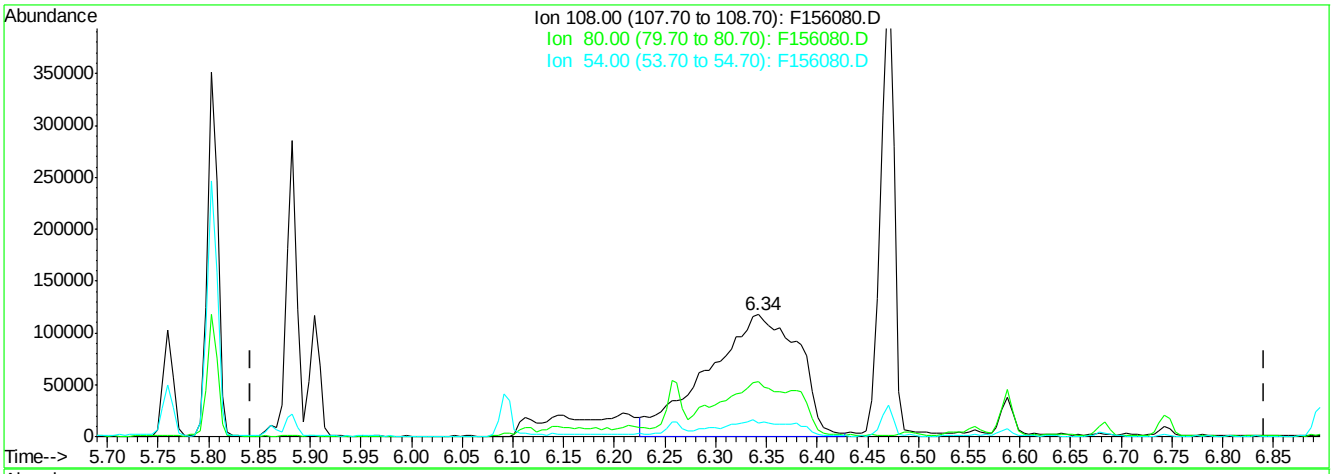
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

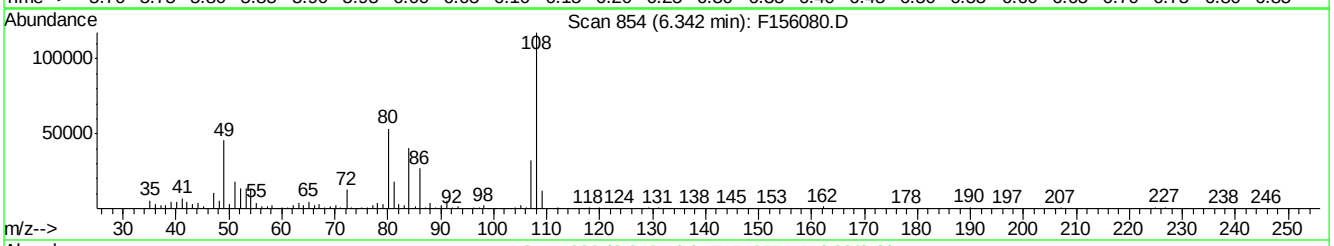
F156080.D MF6563AP9.M Fri Apr 08 15:47:45 2016 RT1

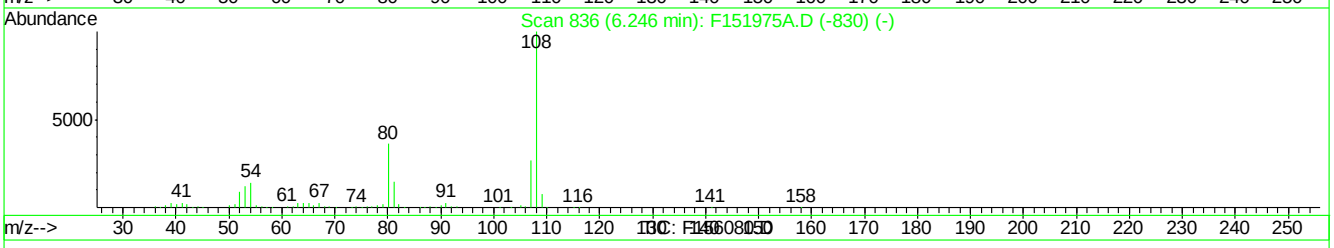
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:47 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.34min 84.48ppm

response 727783

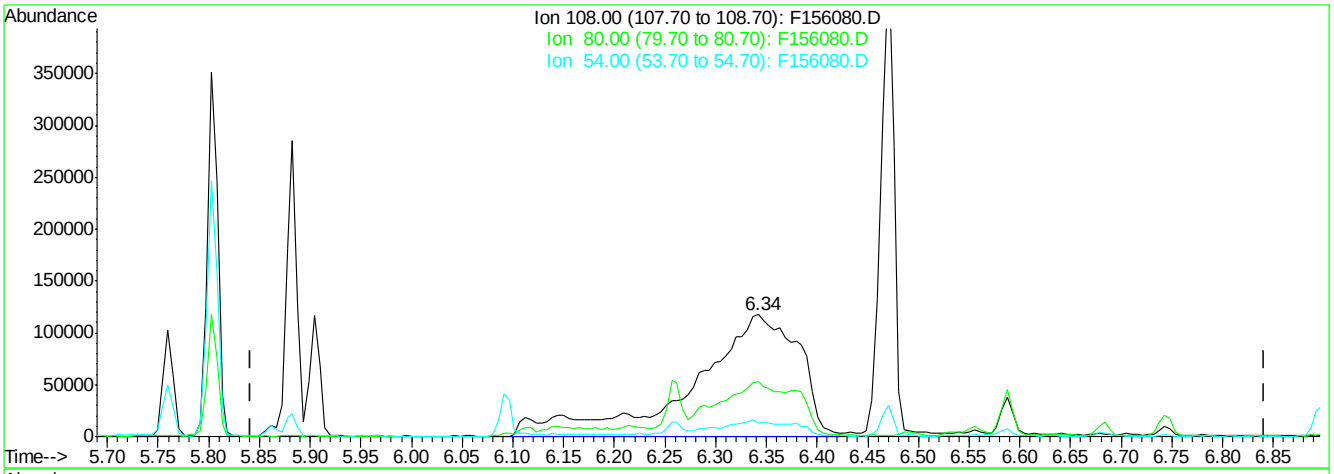
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	45.13
54.00	13.10	10.59
0.00	0.00	0.00

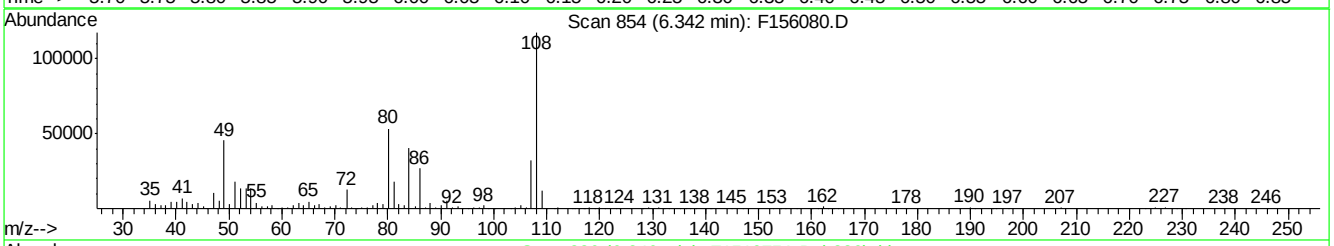
F156080.D MF6563AP9.M Fri Apr 08 15:47:54 2016 RT1

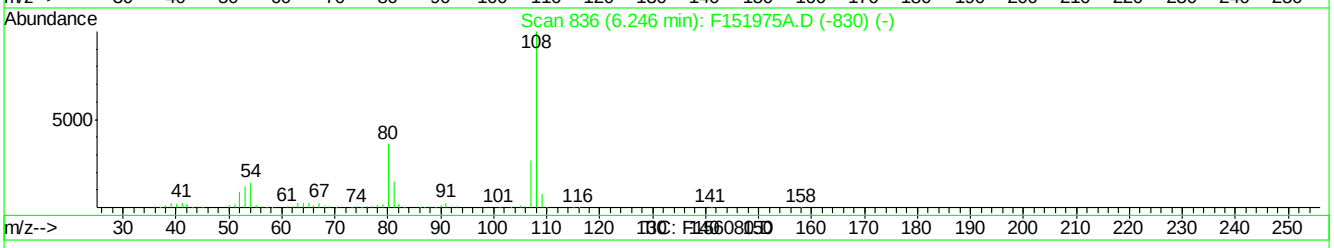
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:47 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.34min 99.85ppm m

response 860205

Ion	Exp%	Act%
108.00	100	100
80.00	38.70	45.45
54.00	13.10	11.41
0.00	0.00	0.00

F156080.D MF6563AP9.M Fri Apr 08 15:48:01 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:48:58 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	605683	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2355974	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1404096	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2191500	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1980455	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	1820394	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	605683	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2355974	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1404096	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2191500	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1980455	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	1820394	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	605683	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2355974	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1404096	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2191500	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1980569	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	605683	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2355974	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1980569	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2355974	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1980569	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
103) 2-Picoline	3.41	93	1880422	79.15	ppm	96
104) Pentachloroethane	4.67	167	608678	80.17	ppm	90
105) Methyl methanesulfonate	3.75	80	946872	80.02	ppm	96
106) N-Nitrosodiethylamine	4.07	102	802312	78.72	ppm	92
107) N-Nitrosomethylethylamine	3.51	42	752488	78.05	ppm	98
108) Ethyl methanesulfonate	4.30	79	1321660	79.10	ppm	94
109) N-Nitrosopyrrolidine	5.16	41	597919m	71.74	ppm	
110) N-Nitrosomorpholine	5.19	56	876577	79.75	ppm	95
111) o-Toluidine	5.20	106	2283729	81.10	ppm	97
113) O,O,O-Triethyl phosphoroth	5.60	198	673500	83.65	ppm	87
114) N-Nitrosopiperidine	5.41	42	974720	79.34	ppm	88
115) A,A-Dimethylphenethylamine	5.74	58	3993351m	78.94	ppm	

(#) = qualifier out of range (m) = manual integration
F156081.D MF6563AP9.M Fri Apr 08 17:17:17 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:48:58 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116) Hexachloropropene	5.88	213	864961	83.97	ppm		99
117) p-Phenylenediamine	6.32	108	711009m	85.05	ppm		
118) N-Nitrosodi-n-butylamine	6.09	84	1106087	67.09	ppm		95
119) Safrole	6.26	162	1157645	83.10	ppm		96
120) Isosafrole	6.68	162	396166	78.62	ppm		98
122) Thionazin	7.85	143	421865	82.53	ppm		97
123) Tetraethyl dithiopyrophosp	8.25	322	361666	82.09	ppm		100
124) Phorate	8.45	75	2326708	81.28	ppm		100
125) Phenacetin	8.47	108	1835900	79.95	ppm		98
126) 1,4-Naphthoquinone	6.90	158	715868	86.16	ppm		94
127) m-Dinitrobenzene	7.02	168	533716	80.98	ppm		75
128) Pentachlorobenzene	7.45	250	1020890	83.30	ppm		99
129) 1-Naphthylamine	7.58	143	2392261	82.56	ppm		98
130) 2-Naphthylamine	7.67	143	2836212	82.48	ppm		99
131) 5-Nitro-o-toluidine	7.90	152	984040	79.38	ppm		86
133) Disulfoton	9.25	88	1806233	80.64	ppm		95
134) Dinoseb	9.23	211	781481	81.35	ppm		97
135) Dimethoate	8.69	87	1299681	83.92	ppm		92
136) 4-Aminobiphenyl	8.93	169	2893629	167.67	ppm		99
137) Methyl parathion	9.89	125	858701	85.41	ppm		90
138) Parathion	10.64	109	690464	80.88	ppm		91
139) Diphenylamine	8.04	169	4437717	84.99	ppm		99
140) Isodrin	11.13	193	525647	84.45	ppm		98
141) Diallate	8.56	86	282599	62.01	ppm		96
142) Pentachloronitrobenzene	8.95	295	246184	169.91	ppm		87
143) Pronamide	9.05	173	1374778	81.85	ppm		96
144) 4-Nitroquinoline 1-oxide	10.66	190	1950458	339.38	ppm		93
145) Methapyriline	10.91	58	984298	92.32	ppm		98
146) sym-Trinitrobenzene	8.38	213	320547	78.92	ppm	#	29
148) Aramite	12.53	185	277911	165.04	ppm		94
149) p-(Dimethylamine)azobenzen	12.63	120	1599456	84.15	ppm		71
150) Kepone	13.35	272	672752	417.70	ppm		99
151) Famphur	13.32	218	3413057	599.35	ppm		93
152) 2-Acetylaminofluorene	13.92	181	2101402	82.21	ppm		97
153) 3,3'-Dimethylbenzidine	13.37	212	438430	104.41	ppm		100
154) Chlorobenzilate	12.77	251	1242103	85.11	ppm		97
156) 4,4-Methylene-bis-(2-chlor	14.59	266	356405	81.68	ppm		85
157) 3-Methylcholanthrene	18.21	268	2007169	83.80	ppm		96
158) Hexachlorophene	17.34	196	1817802	475.68	ppm		99

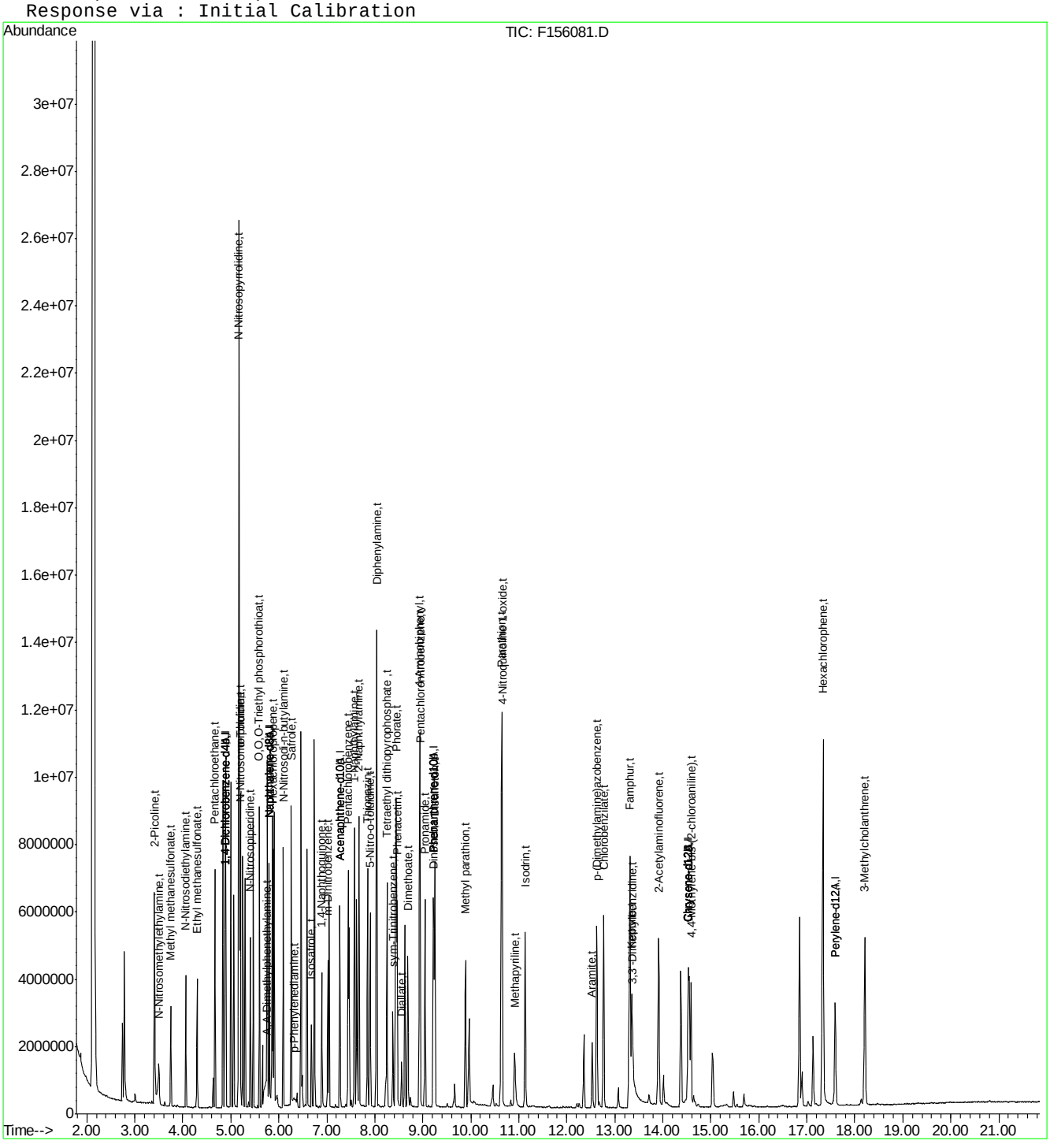
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:51 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Manual Integration Approval Summary

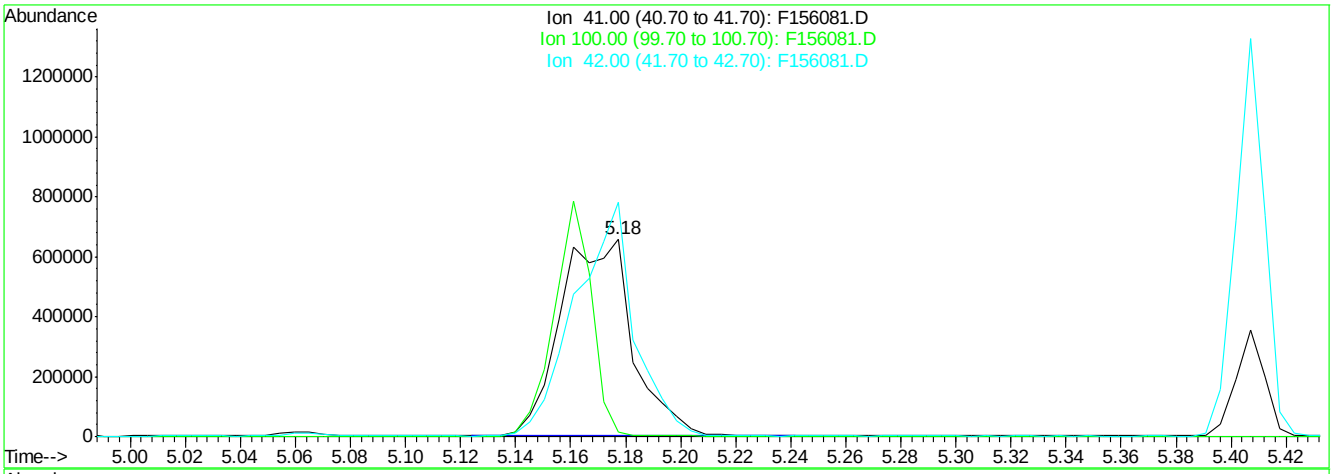
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156081.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 14:41	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

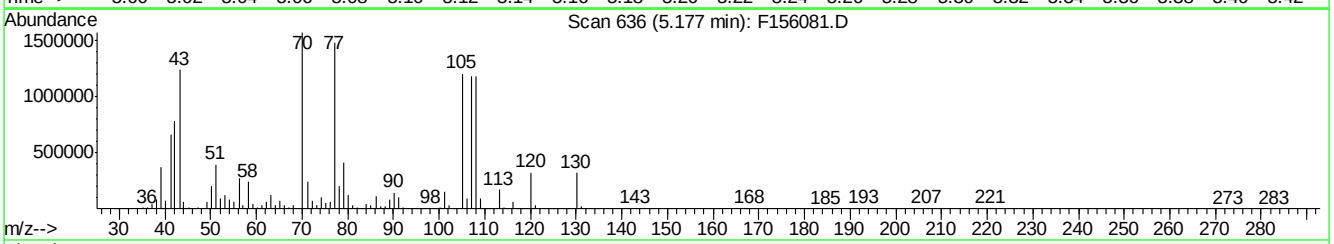
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.16	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.74	Split peak
p-Phenylenediamine	106-50-3		6.32	Split peak

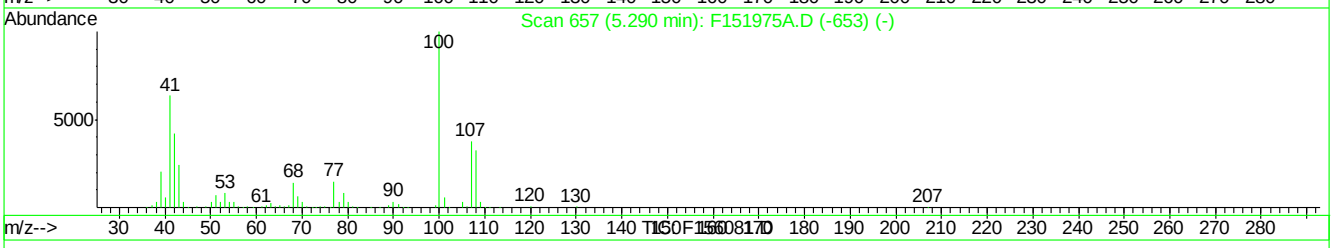
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:49 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.18min 143.03ppm

response 1192006

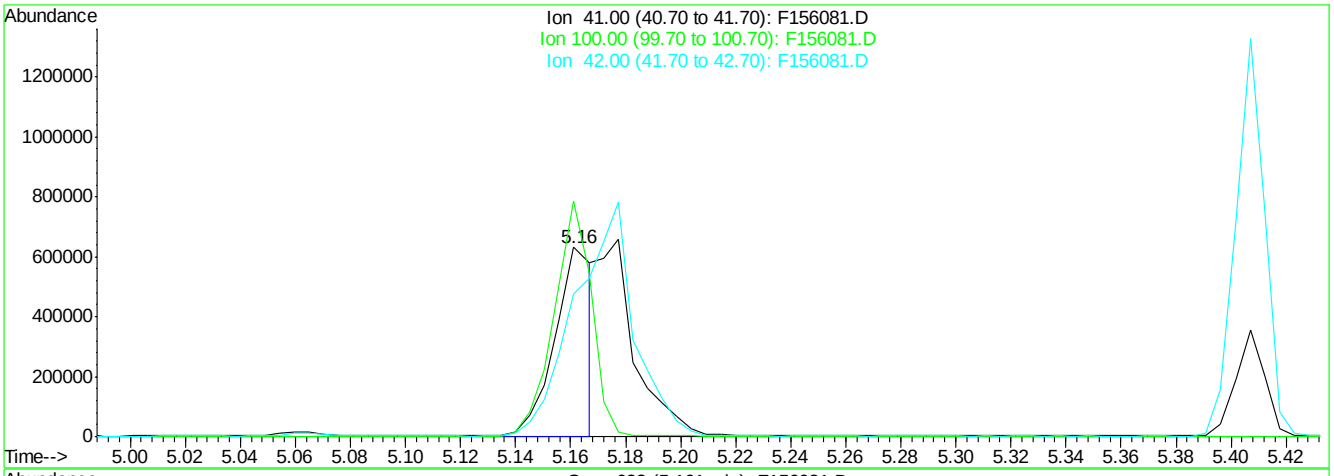
Ion	Exp%	Act%
41.00	100	100
100.00	153.60	2.18#
42.00	69.80	118.60#
0.00	0.00	0.00

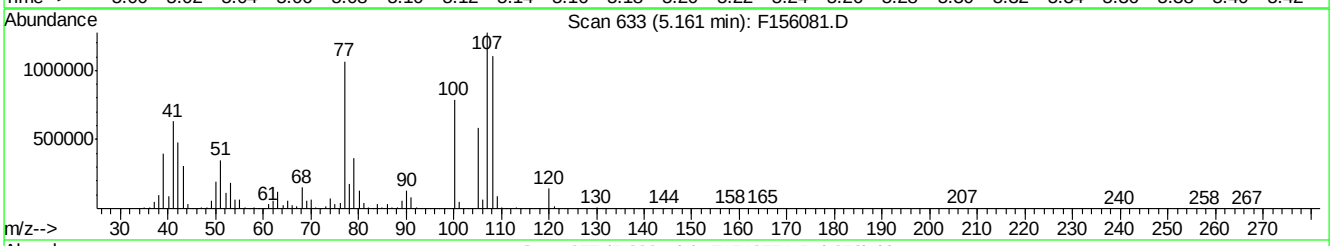
F156081.D MF6563AP9.M Fri Apr 08 15:49:56 2016 RT1

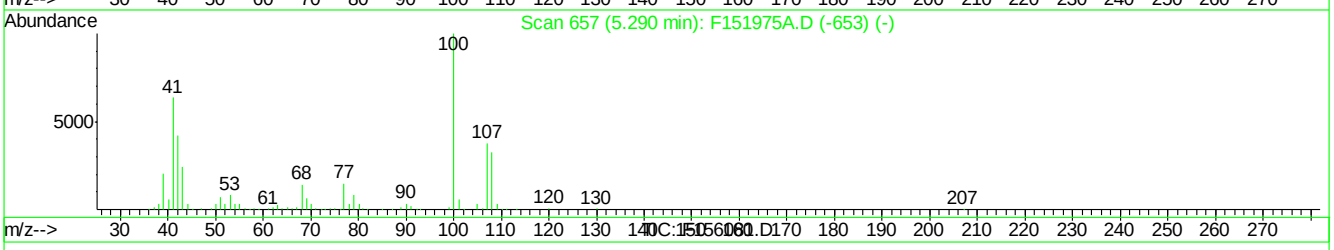
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.16min 71.74ppm m

response 597919

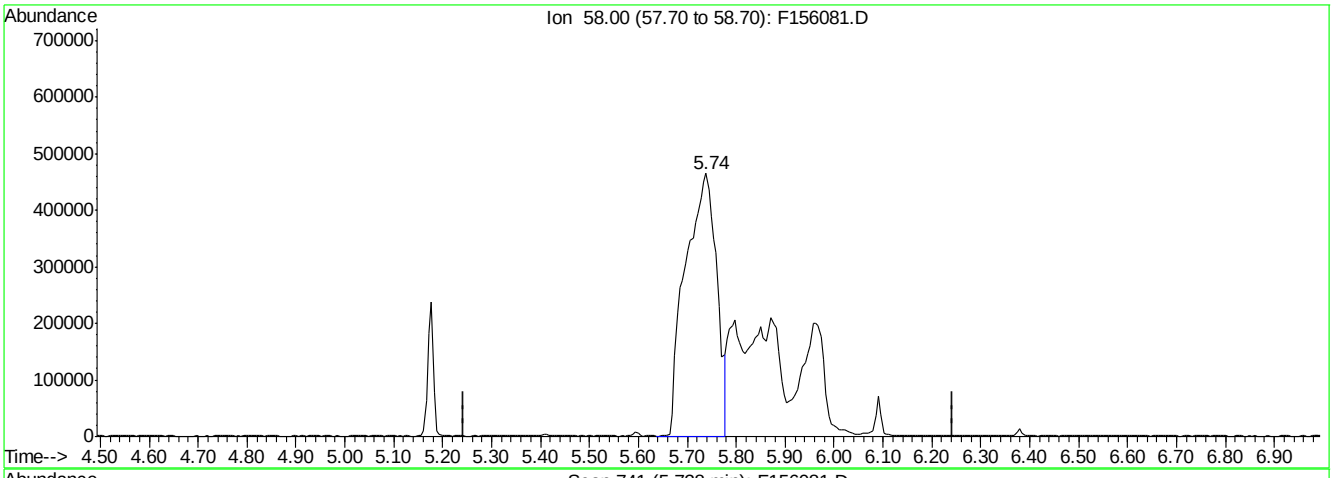
Ion	Exp%	Act%
41.00	100	100
100.00	153.60	124.28
42.00	69.80	75.46
0.00	0.00	0.00

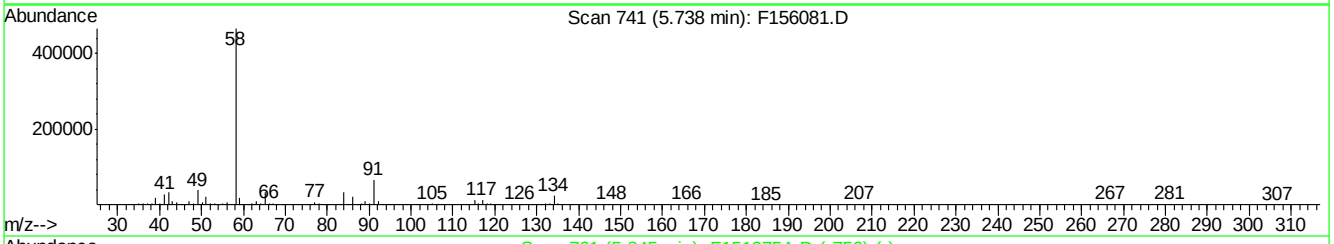
F156081.D MF6563AP9.M Fri Apr 08 15:50:16 2016 RT1

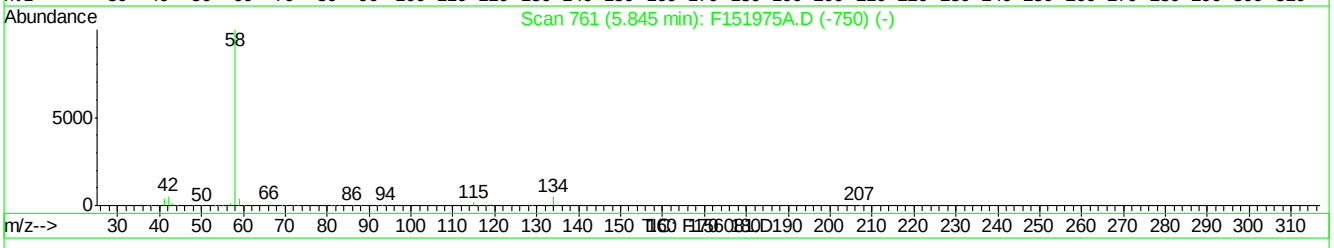
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.74min 40.48ppm

response 2047808

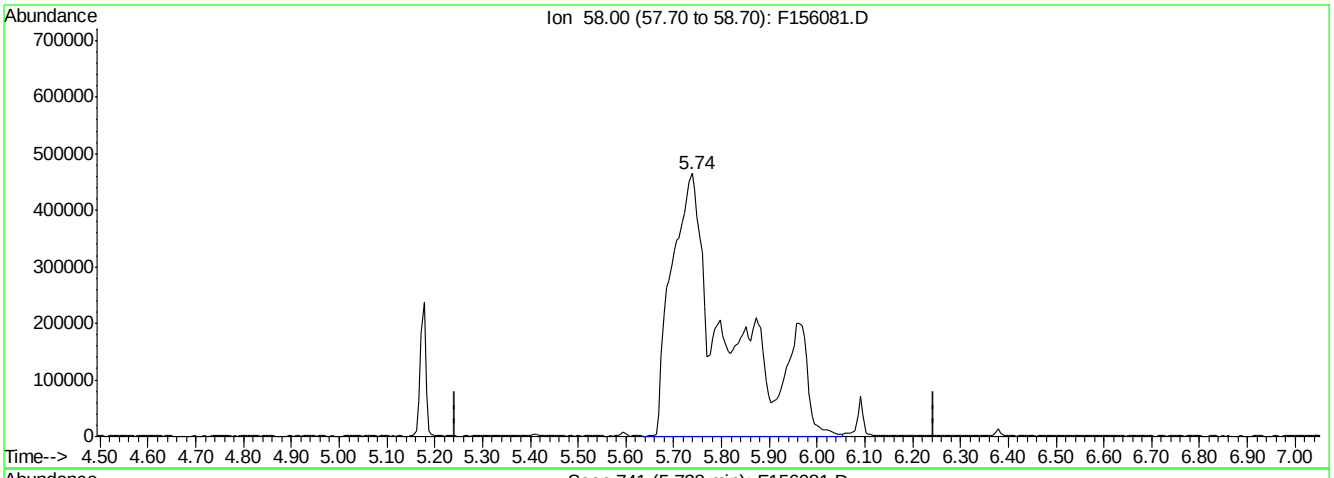
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

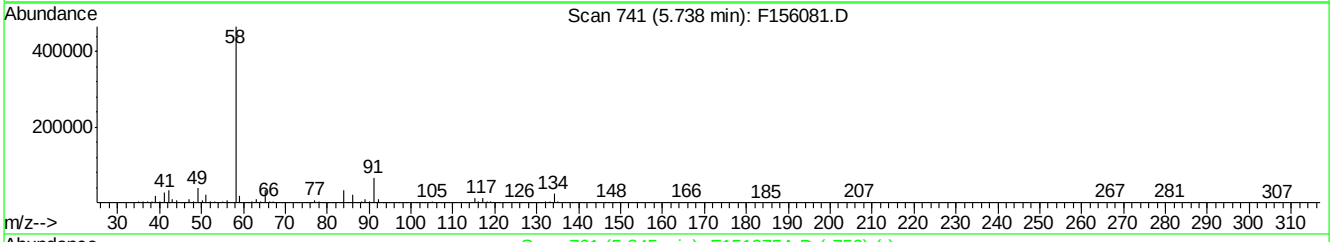
F156081.D MF6563AP9.M Fri Apr 08 15:50:23 2016 RT1

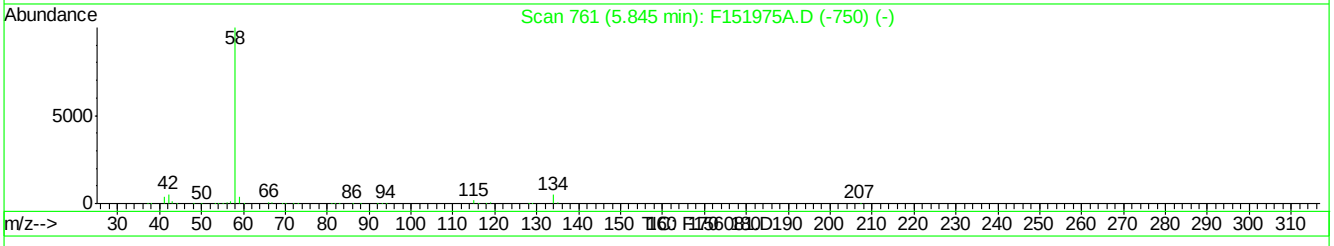
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.74min 78.94ppm m

response 3993351

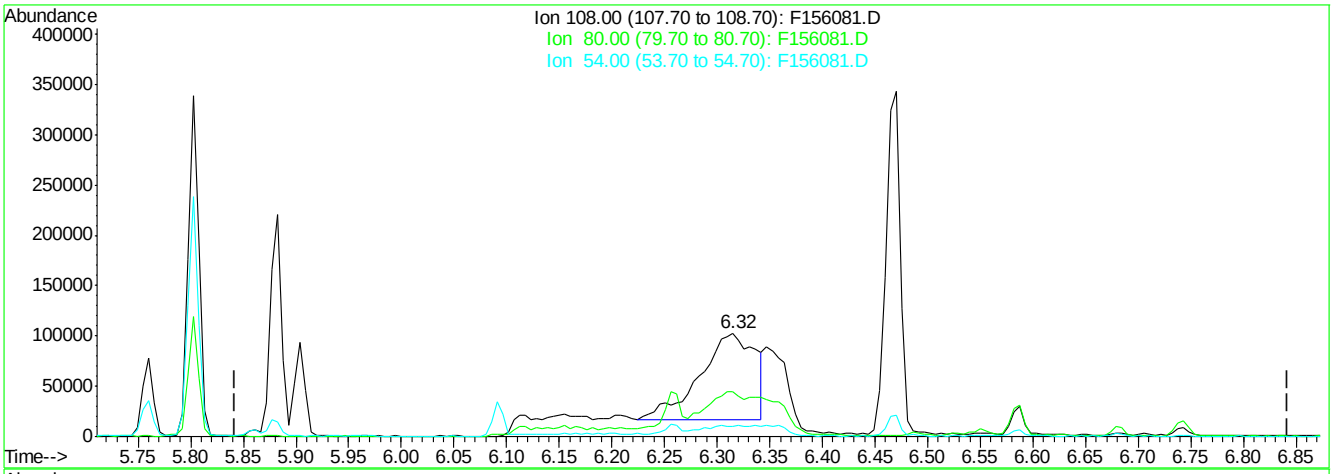
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

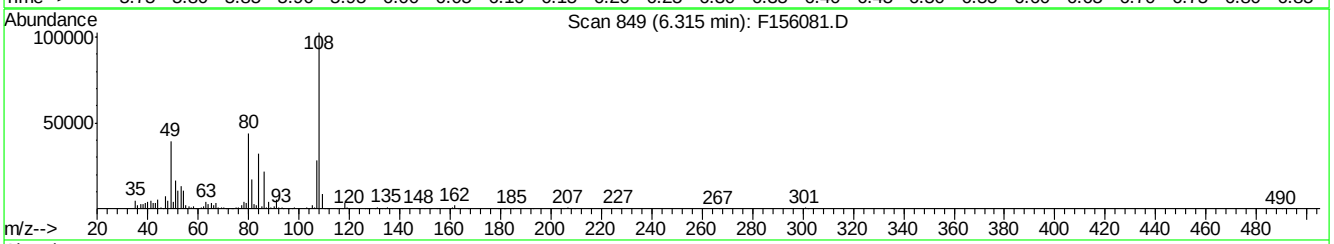
F156081.D MF6563AP9.M Fri Apr 08 15:50:45 2016 RT1

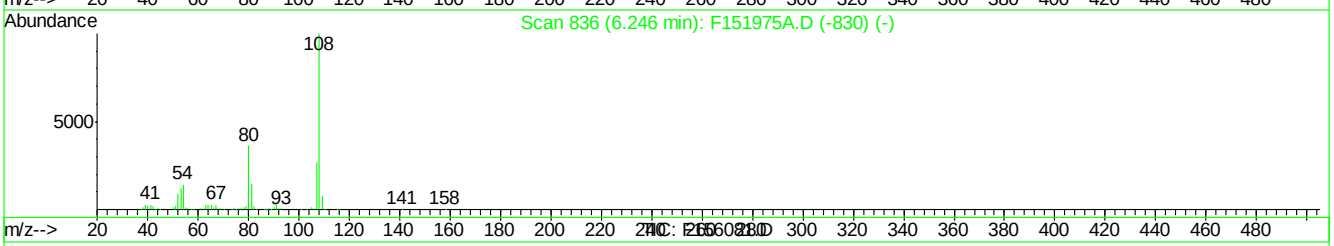
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.32min 37.33ppm

response 312095

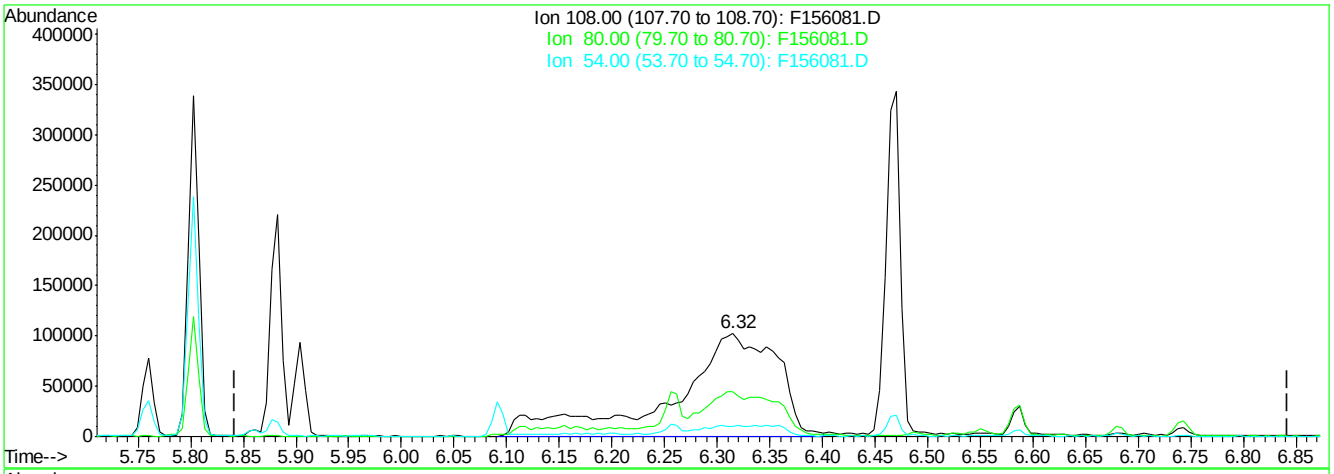
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	38.42
54.00	13.10	7.64
0.00	0.00	0.00

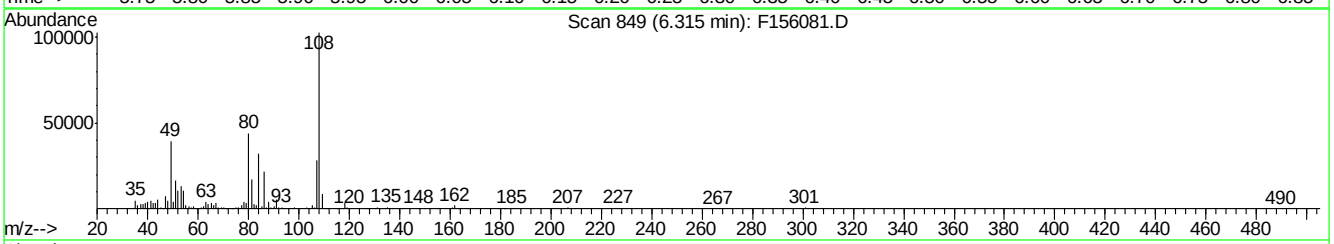
F156081.D MF6563AP9.M Fri Apr 08 15:50:52 2016 RT1

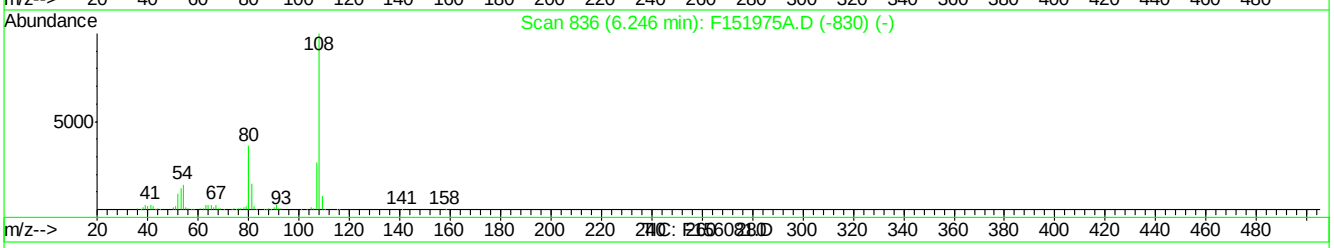
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.32min 85.05ppm m

response 711009

Ion	Exp%	Act%
108.00	100	100
80.00	38.70	42.96
54.00	13.10	10.28
0.00	0.00	0.00

F156081.D MF6563AP9.M Fri Apr 08 15:51:01 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:52:08 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	566170	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2205240	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1313186	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2128176	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1916538	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	1808561	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	566170	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2205240	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1313186	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2128176	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1916538	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	1808561	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	566170	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2205240	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1313186	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2128176	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1916512	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	566170	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2205240	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1916512	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2205240	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1916512	40.00	ppm	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
103) 2-Picoline	3.41	93	1050869	47.32	ppm	95
104) Pentachloroethane	4.67	167	350709	49.41	ppm	91
105) Methyl methanesulfonate	3.75	80	557537	50.40	ppm	97
106) N-Nitrosodiethylamine	4.06	102	447448	46.97	ppm	95
107) N-Nitrosomethylethylamine	3.50	42	409560	45.44	ppm	98
108) Ethyl methanesulfonate	4.30	79	725065	46.42	ppm	95
109) N-Nitrosopyrrolidine	5.16	41	352636	45.27	ppm	89
110) N-Nitrosomorpholine	5.18	56	506637	49.31	ppm	94
111) o-Toluidine	5.19	106	1383780	52.57	ppm	97
113) O,O,O-Triethyl phosphoroth	5.59	198	406036	53.88	ppm	99
114) N-Nitrosopiperidine	5.40	42	542907	47.21	ppm	89
115) A,A-Dimethylphenethylamine	5.73	58	2209555m	46.66	ppm	

(#) = qualifier out of range (m) = manual integration
F156082.D MF6563AP9.M Fri Apr 08 17:17:23 2016 RT1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:52:08 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	500078	51.87	ppm		99
117)	p-Phenylenediamine	6.10	108	556590m	71.13	ppm		
118)	N-Nitrosodi-n-butylamine	6.09	84	647025	41.93	ppm		97
119)	Safrole	6.26	162	668993	51.31	ppm		95
120)	Isosafrole	6.68	162	549344	116.47	ppm		98
122)	Thionazin	7.84	143	233746	48.89	ppm		97
123)	Tetraethyl dithiopyrophosp	8.25	322	211485	51.33	ppm		100
124)	Phorate	8.44	75	1315024	49.12	ppm		100
125)	Phenacetin	8.46	108	1039679	48.41	ppm		97
126)	1,4-Naphthoquinone	6.89	158	576440	74.18	ppm		86
127)	m-Dinitrobenzene	7.02	168	295826	47.99	ppm		74
128)	Pentachlorobenzene	7.45	250	606709	52.93	ppm		100
129)	1-Naphthylamine	7.58	143	1461706	53.94	ppm		96
130)	2-Naphthylamine	7.67	143	1745476	54.28	ppm		98
131)	5-Nitro-o-toluidine	7.89	152	550656	47.49	ppm		87
133)	Disulfoton	9.25	88	1091315	50.17	ppm		94
134)	Dinoseb	9.23	211	422182	45.26	ppm		97
135)	Dimethoate	8.68	87	792449	52.69	ppm		93
136)	4-Aminobiphenyl	8.93	169	1834721	109.47	ppm		98
137)	Methyl parathion	9.88	125	516662	52.92	ppm		90
138)	Parathion	10.64	109	406063	48.98	ppm		93
139)	Diphenylamine	8.04	169	2709429	53.44	ppm		100
140)	Isodrin	11.13	193	294866	48.78	ppm		98
141)	Diallate	8.56	86	156425	35.34	ppm		91
142)	Pentachloronitrobenzene	8.94	295	157649	112.04	ppm		98
143)	Pronamide	9.05	173	840320	51.52	ppm		92
144)	4-Nitroquinoline 1-oxide	10.64	190	1078375	193.22	ppm		92
145)	Methapyriline	10.89	58	737702m	71.25	ppm		
146)	sym-Trinitrobenzene	8.38	213	202061	51.23	ppm	#	64
148)	Aramite	12.53	185	196364	120.50	ppm		93
149)	p-(Dimethylamine)azobenzen	12.62	120	920708	50.06	ppm		69
150)	Kepone	13.35	272	598419	383.94	ppm		96
151)	Famphur	13.31	218	2940315	533.55	ppm		94
152)	2-Acetylaminofluorene	13.91	181	1214385	49.09	ppm		96
153)	3,3'-Dimethylbenzidine	13.37	212	488120	120.12	ppm		100
154)	Chlorobenzilate	12.76	251	703452	49.81	ppm		99
156)	4,4-Methylene-bis-(2-chlor	14.59	266	222605	51.35	ppm		90
157)	3-Methylcholanthrene	18.20	268	1172815	49.28	ppm		96
158)	Hexachlorophene	17.32	196	698597	184.01	ppm		99

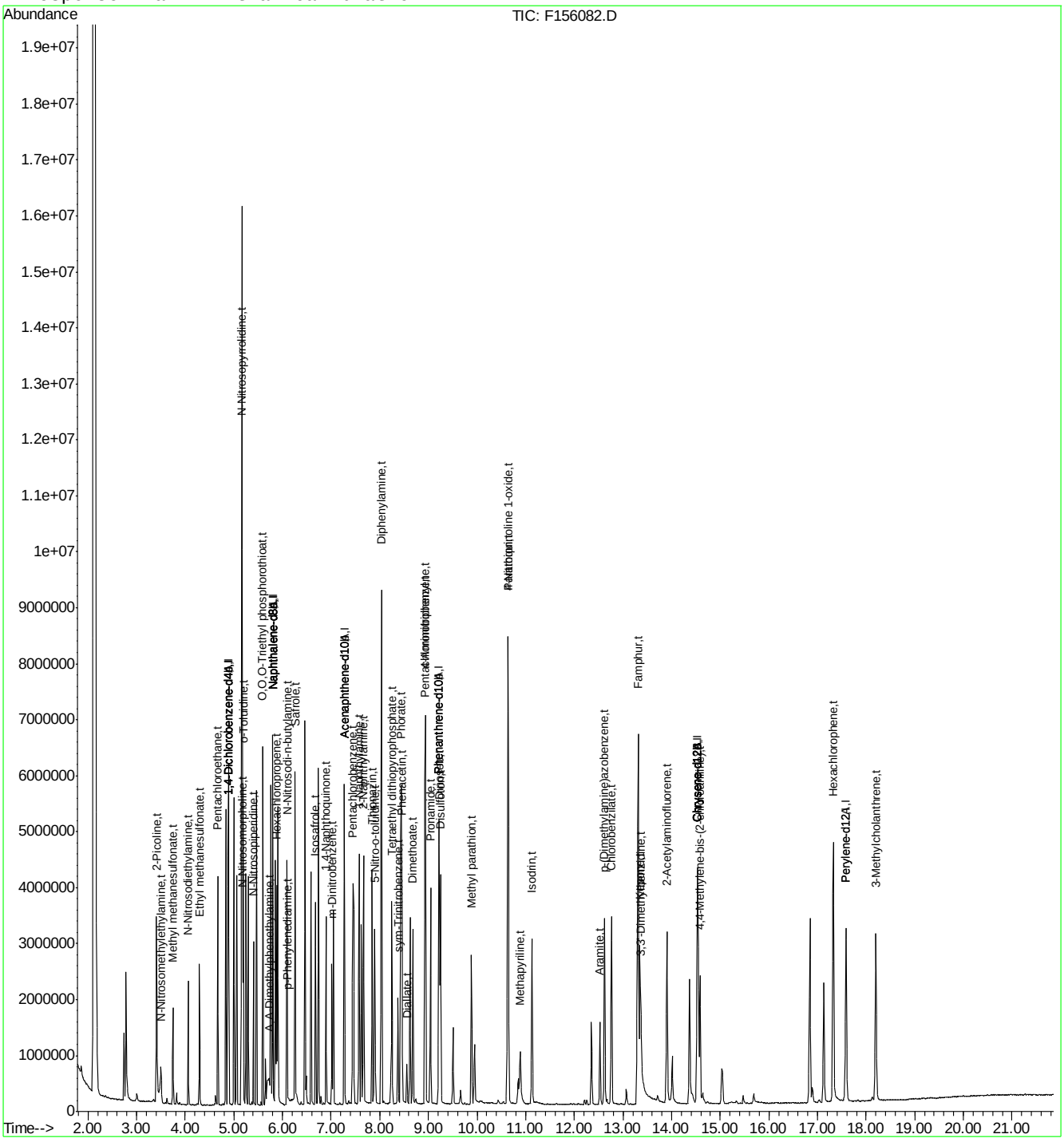
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:54 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Manual Integration Approval Summary

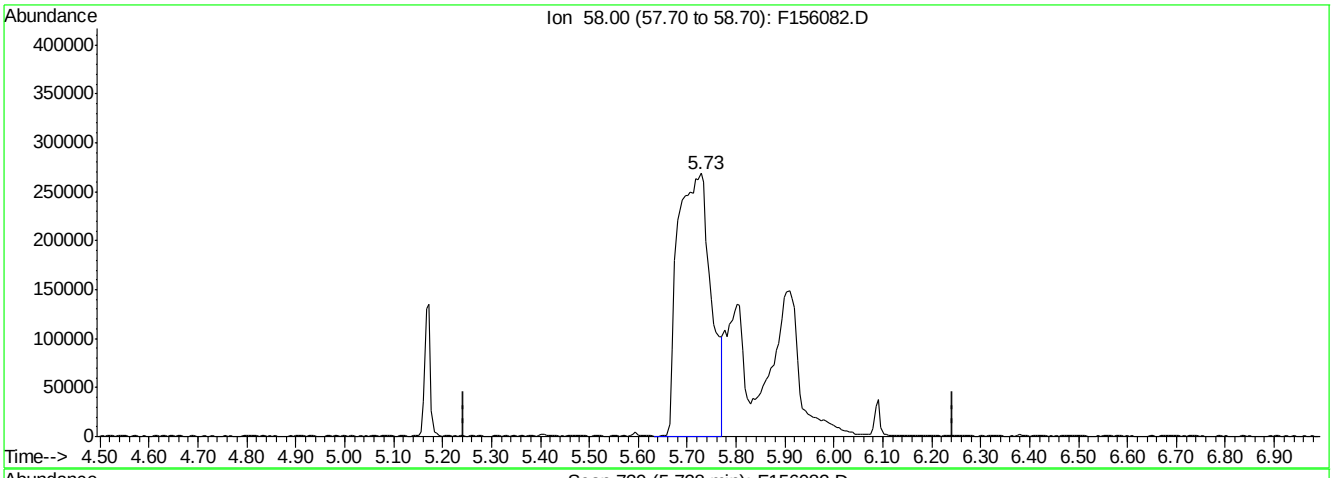
Sample Number:	EF6566-ICC6566	**Method:**	SW846 8270D	
Lab FileID:	F156082.D	**Analyst approved:**	04/08/16 17:21	Kristi Schollenberger
Injection Time:	04/05/16 15:11	**Supervisor approved:**	04/13/16 13:20	Nina Pandya

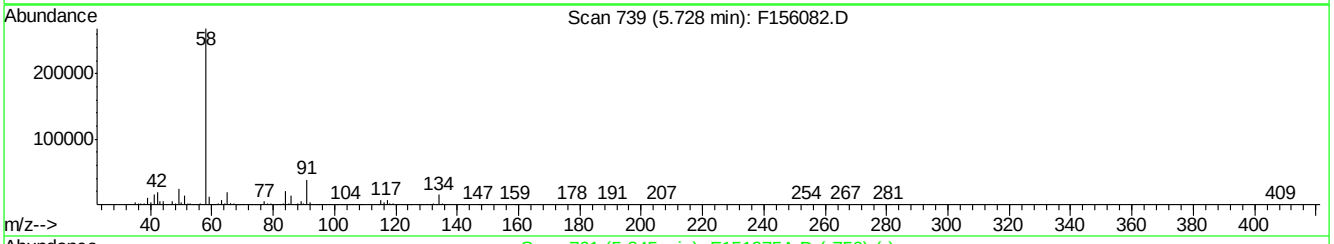
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.73	Split peak
p-Phenylenediamine	106-50-3		6.10	Split peak
Methapyrilene	91-80-5		10.89	Split peak

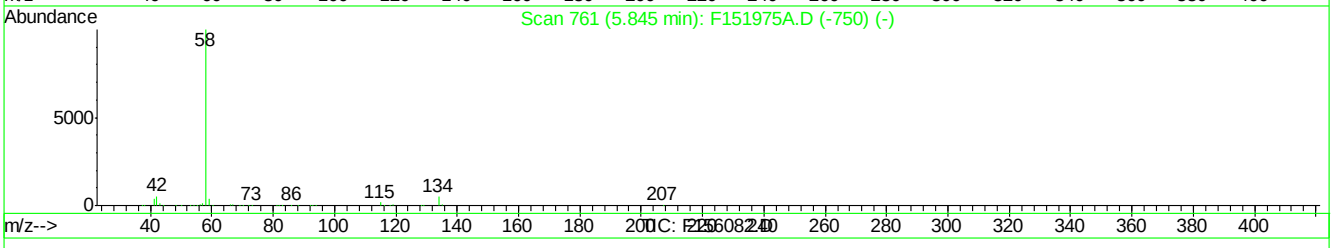
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:52 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.73min 26.69ppm

response 1264030

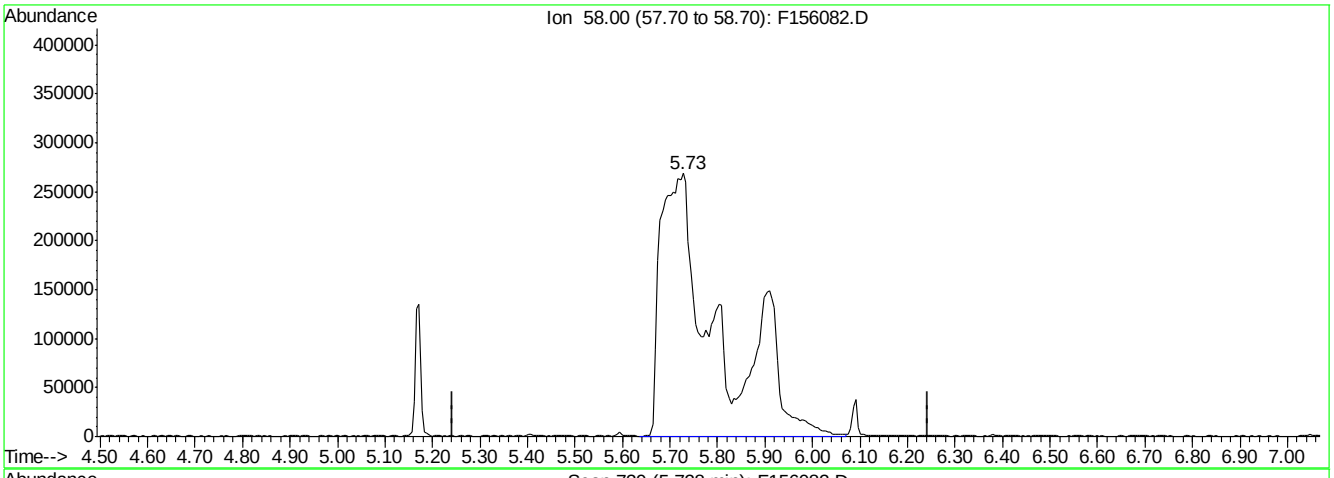
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

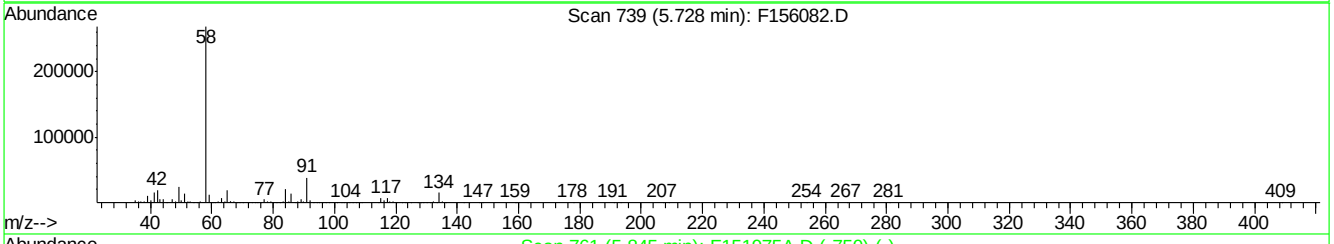
F156082.D MF6563AP9.M Fri Apr 08 15:53:10 2016 RT1

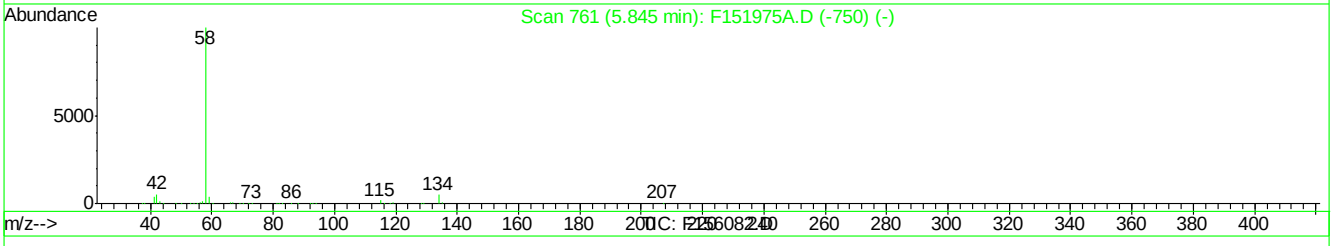
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.73min 46.66ppm m

response 2209555

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F156082.D MF6563AP9.M Fri Apr 08 15:53:24 2016 RT1

7.6.102.3

7

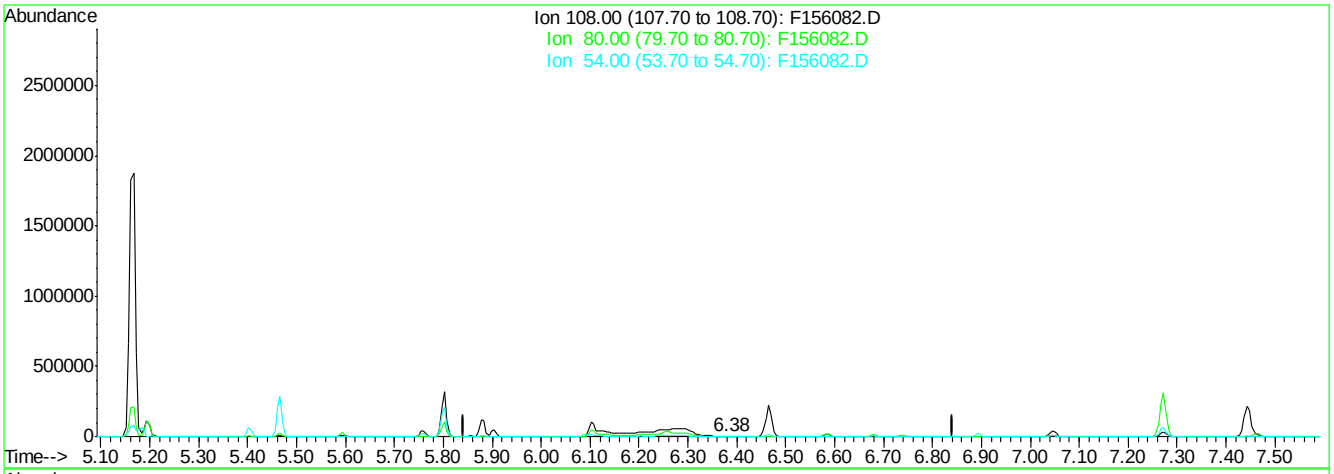
SGS ACCUTEST JC19423

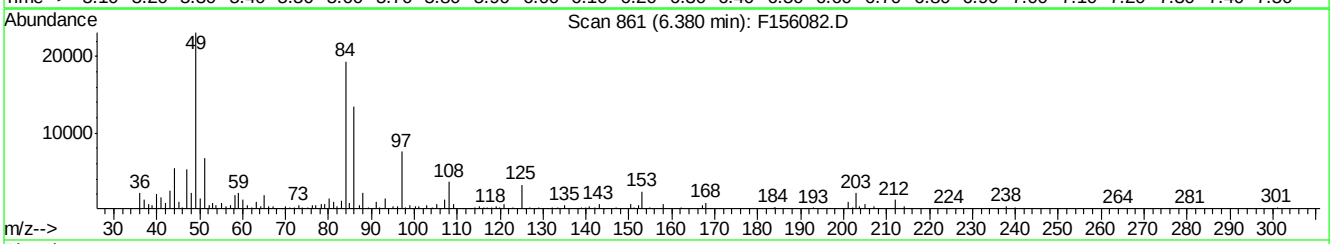
F156082.D edits: A,A-Dimethylphenethylamine

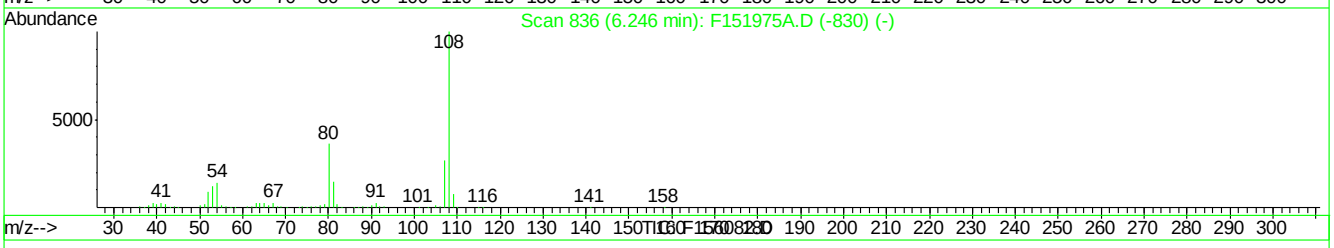
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.38min 0.39ppm

response 3017

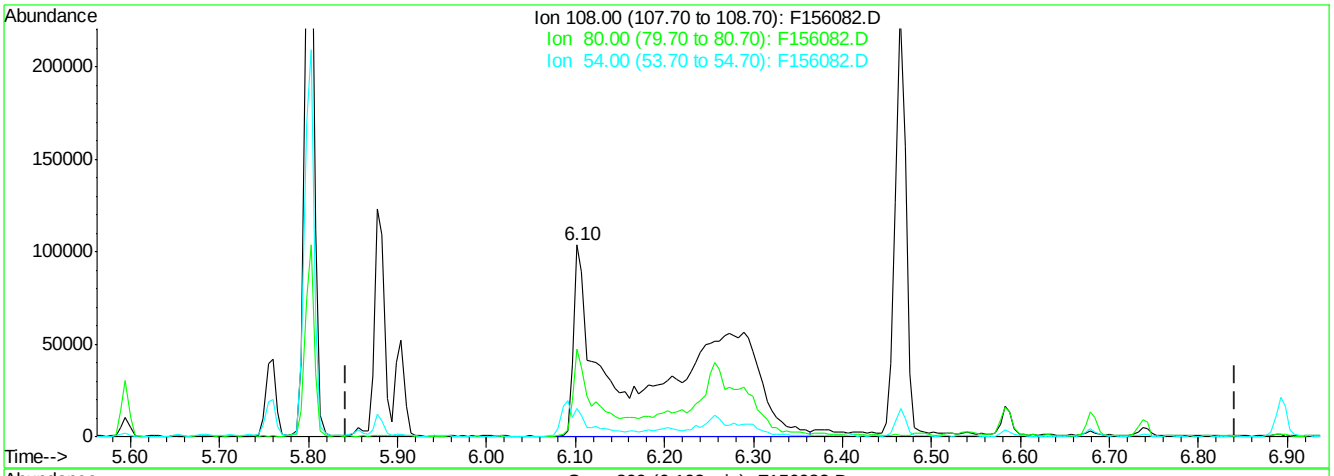
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	9.45
54.00	13.10	0.00
0.00	0.00	0.00

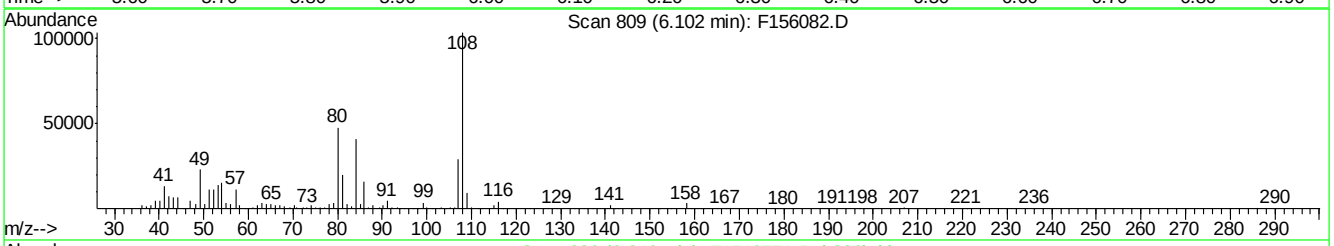
F156082.D MF6563AP9.M Fri Apr 08 15:53:29 2016 RT1

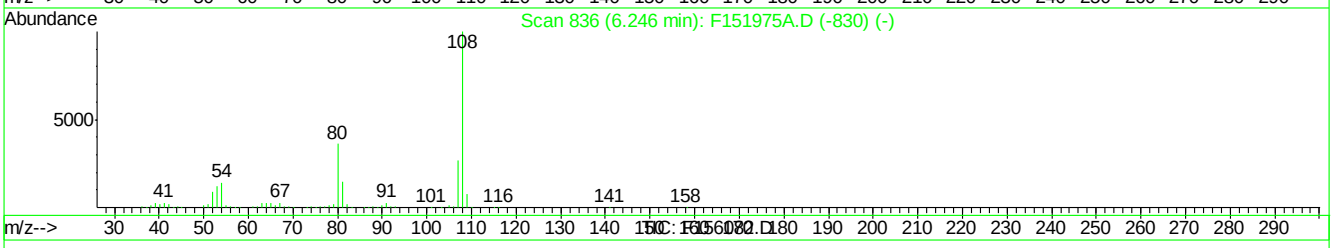
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.10min 71.13ppm m

response 556590

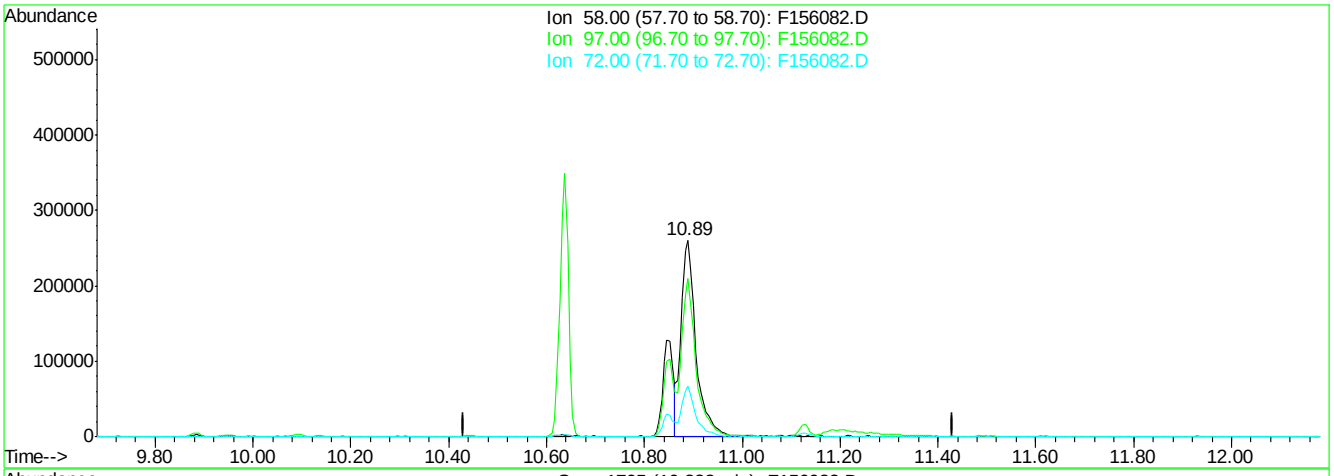
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	45.97
54.00	13.10	14.51
0.00	0.00	0.00

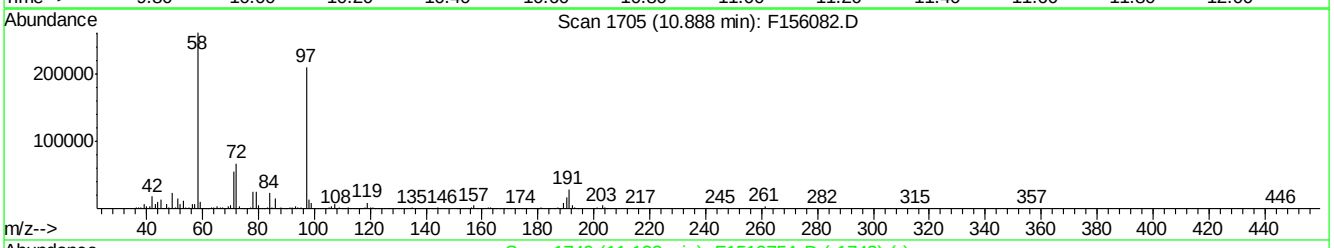
F156082.D MF6563AP9.M Fri Apr 08 15:53:46 2016 RT1

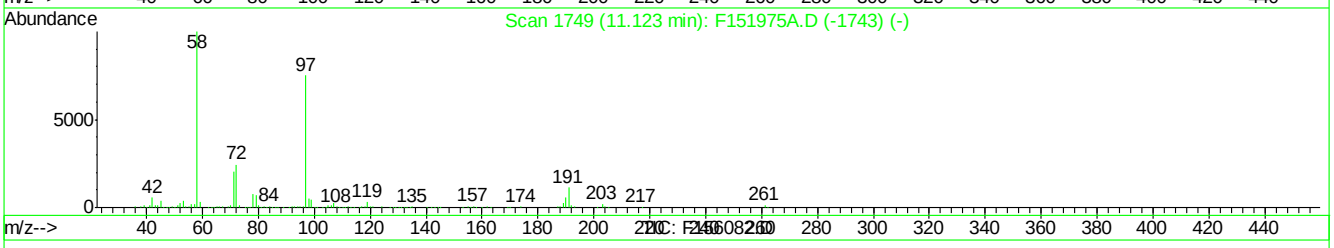
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

10.89min 52.66ppm

response 545222

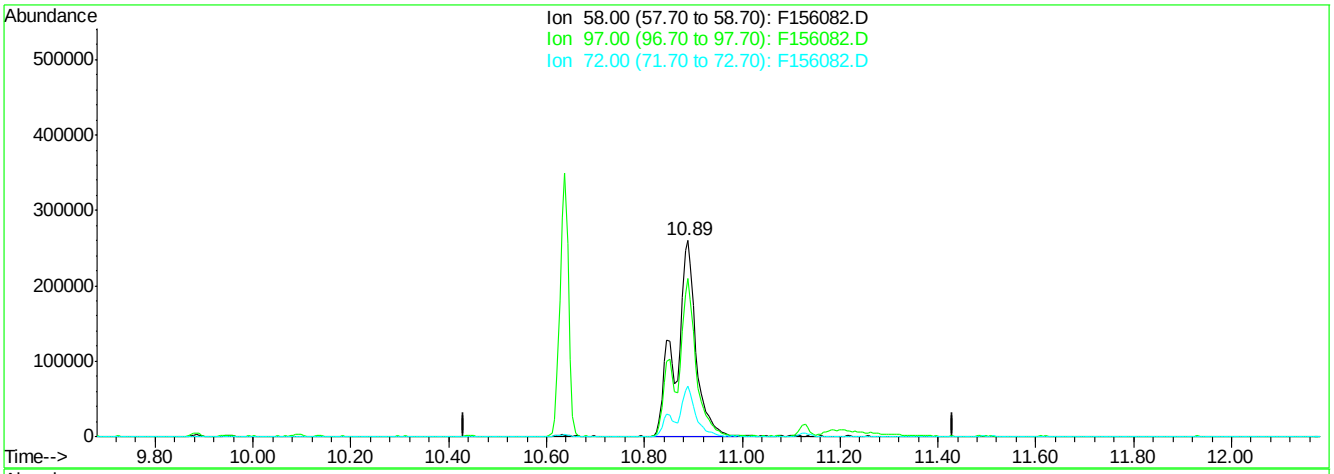
Ion	Exp%	Act%
58.00	100	100
97.00	75.70	79.43
72.00	20.60	25.66
0.00	0.00	0.00

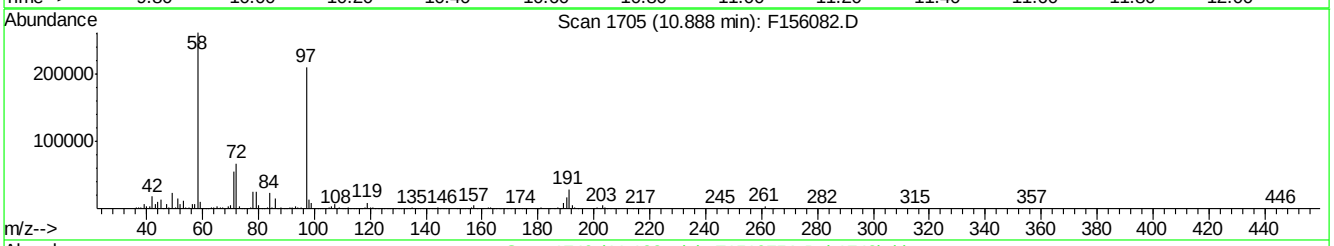
F156082.D MF6563AP9.M Fri Apr 08 15:54:10 2016 RT1

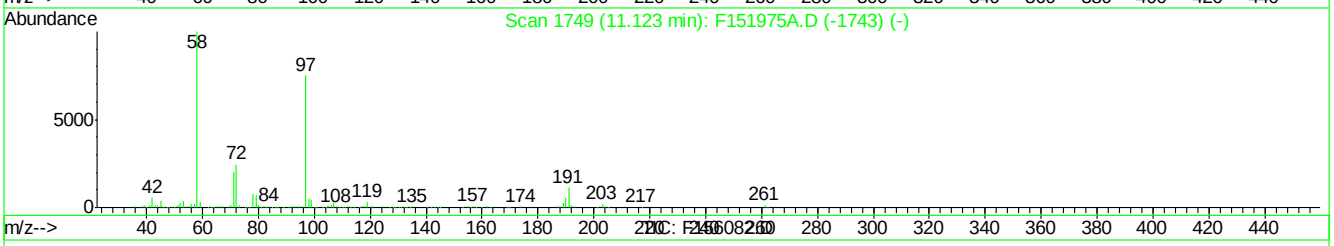
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:54 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

10.89min 71.25ppm m

response 737702

Ion	Exp%	Act%
58.00	100	100
97.00	75.70	80.33
72.00	20.60	25.86
0.00	0.00	0.00

F156082.D MF6563AP9.M Fri Apr 08 15:54:20 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:55:08 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	568961	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2232540	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1348053	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2171461	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1925645	40.00	ppm	0.00
92) Perylene-d12	17.59	264	1801257	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	568961	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2232540	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1348053	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2171461	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1925645	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	1801257	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	568961	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2232540	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1348053	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2171461	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1925645	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	568961	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2232540	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1925645	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2232540	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1925645	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
103) 2-Picoline	3.41	93	541524	24.26	ppm	98
104) Pentachloroethane	4.67	167	182110	25.53	ppm	96
105) Methyl methanesulfonate	3.75	80	281847	25.36	ppm	97
106) N-Nitrosodiethylamine	4.06	102	233961	24.44	ppm	93
107) N-Nitrosomethylethylamine	3.51	42	203636	22.48	ppm	96
108) Ethyl methanesulfonate	4.29	79	374973	23.89	ppm	91
109) N-Nitrosopyrrolidine	5.15	41	169022	21.59	ppm	96
110) N-Nitrosomorpholine	5.18	56	258926	25.08	ppm	95
111) o-Toluidine	5.19	106	753822	28.50	ppm	96
113) O,O,O-Triethyl phosphoroth	5.59	198	212721	27.88	ppm	89
114) N-Nitrosopiperidine	5.40	42	277772	23.86	ppm	94
115) A,A-Dimethylphenethylamine	5.68	58	1149366m	23.98	ppm	

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:55:08 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

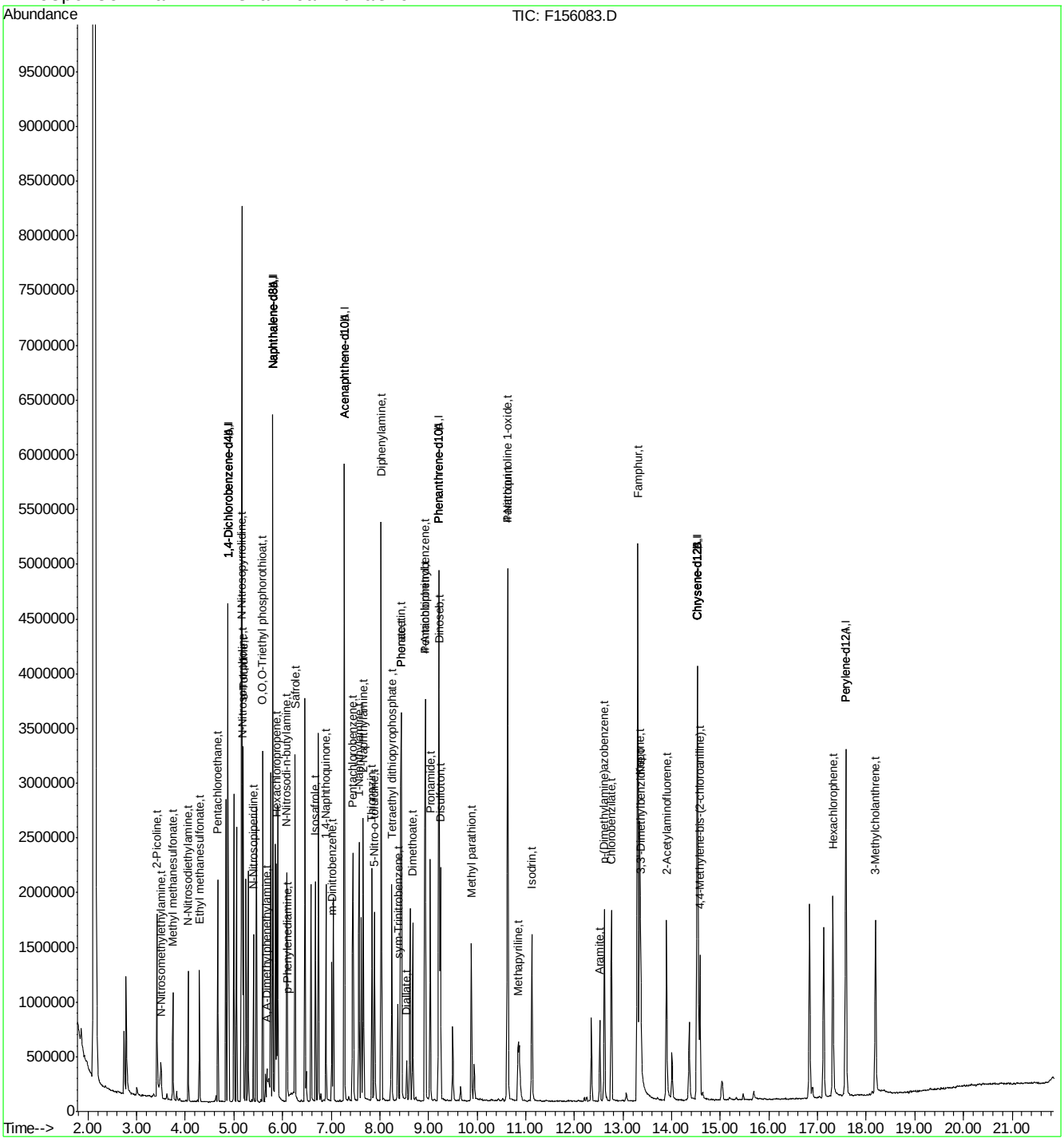
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116) Hexachloropropene	5.88	213	256680	26.30	ppm		98
117) p-Phenylenediamine	6.10	108	351007m	44.31	ppm		
118) N-Nitrosodi-n-butylamine	6.09	84	325241	20.82	ppm		96
119) Safrole	6.26	162	357256	27.06	ppm		97
120) Isosafrole	6.68	162	282692	59.20	ppm		97
122) Thionazin	7.84	143	121791	24.82	ppm		93
123) Tetraethyl dithiopyrophosp	8.25	322	108336	25.61	ppm		100
124) Phorate	8.44	75	687993	25.03	ppm		100
125) Phenacetin	8.45	108	531299	24.10	ppm		97
126) 1,4-Naphthoquinone	6.89	158	307000	38.49	ppm		90
127) m-Dinitrobenzene	7.02	168	142671	22.55	ppm		73
128) Pentachlorobenzene	7.44	250	328438	27.91	ppm		98
129) 1-Naphthylamine	7.57	143	777529	27.95	ppm		94
130) 2-Naphthylamine	7.66	143	964121	29.20	ppm		96
131) 5-Nitro-o-toluidine	7.89	152	288741	24.26	ppm		89
133) Disulfoton	9.25	88	575187	25.92	ppm		95
134) Dinoseb	9.23	211	185790	19.52	ppm		98
135) Dimethoate	8.68	87	418360	27.26	ppm		95
136) 4-Aminobiphenyl	8.93	169	959571	56.11	ppm		100
137) Methyl parathion	9.88	125	266829	26.78	ppm		91
138) Parathion	10.63	109	214173	25.32	ppm		96
139) Diphenylamine	8.03	169	1467318	28.36	ppm		98
140) Isodrin	11.12	193	153022	24.81	ppm		98
141) Diallate	8.55	86	79128	17.52	ppm		94
142) Pentachloronitrobenzene	8.94	295	84704	59.00	ppm		96
143) Pronamide	9.04	173	439697	26.42	ppm		93
144) 4-Nitroquinoline 1-oxide	10.63	190	532166	93.45	ppm		91
145) Methapyriline	10.85	58	468473m	44.35	ppm		
146) sym-Trinitrobenzene	8.37	213	92375	22.95	ppm	#	47
148) Aramite	12.53	185	100158	61.17	ppm		93
149) p-(Dimethylamine)azobenzen	12.62	120	464518	25.14	ppm		76
150) Kepone	13.35	272	445096	284.22	ppm		95
151) Famphur	13.31	218	2112138	381.46	ppm		93
152) 2-Acetylaminofluorene	13.90	181	587692	23.65	ppm		99
153) 3,3'-Dimethylbenzidine	13.37	212	456800	111.88	ppm		98
154) Chlorobenzilate	12.76	251	361828	25.50	ppm		99
156) 4,4-Methylene-bis-(2-chlor	14.58	266	124994	28.95	ppm	#	80
157) 3-Methylcholanthrene	18.19	268	590649	24.92	ppm		96
158) Hexachlorophene	17.31	196	235342	62.24	ppm		100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:57 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Manual Integration Approval Summary

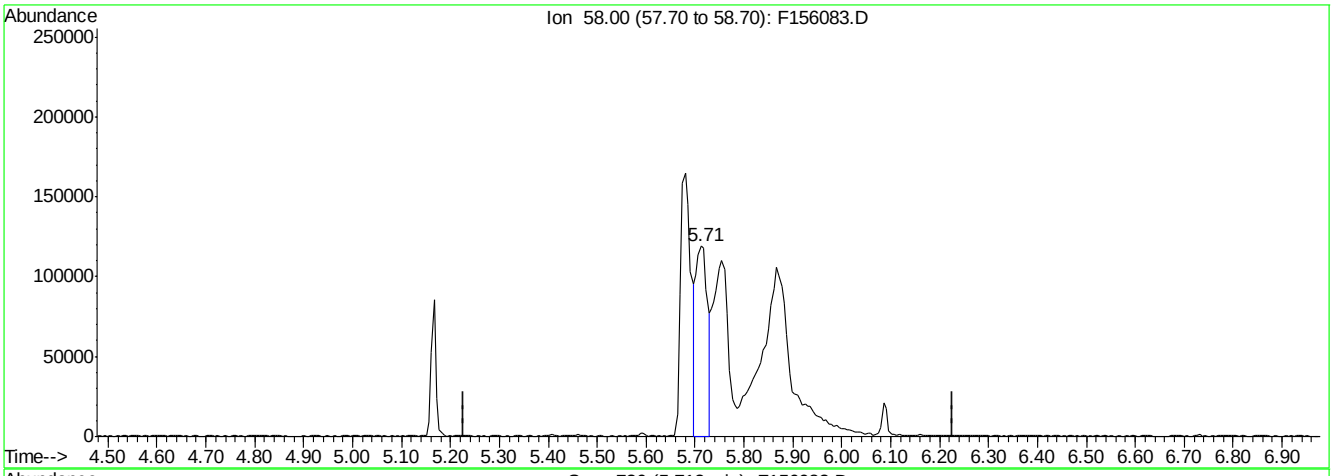
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D	
Lab FileID:	F156083.D	**Analyst approved:**	04/08/16 17:21	Kristi Schollenberger
Injection Time:	04/05/16 15:40	**Supervisor approved:**	04/13/16 13:20	Nina Pandya

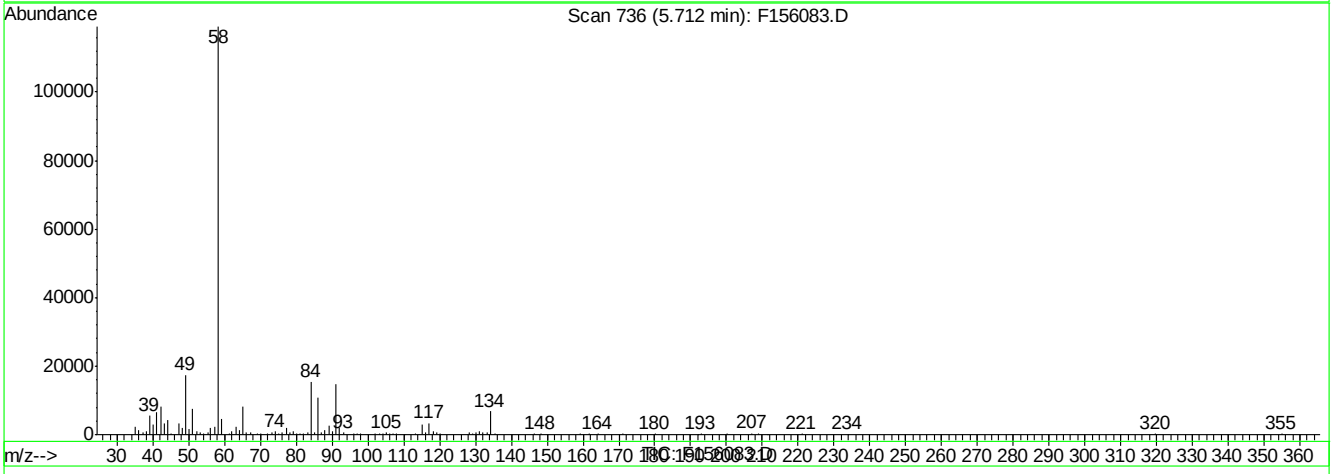
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.68	Split peak
p-Phenylenediamine	106-50-3		6.10	Split peak
Methapyrilene	91-80-5		10.85	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:55 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.71min 4.14ppm

response 198424

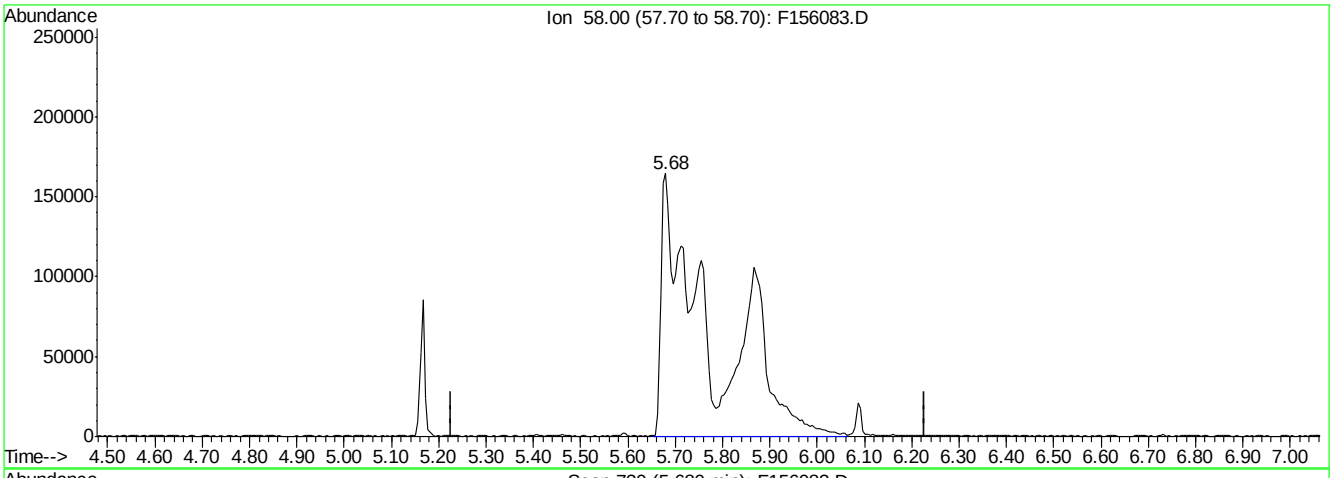
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

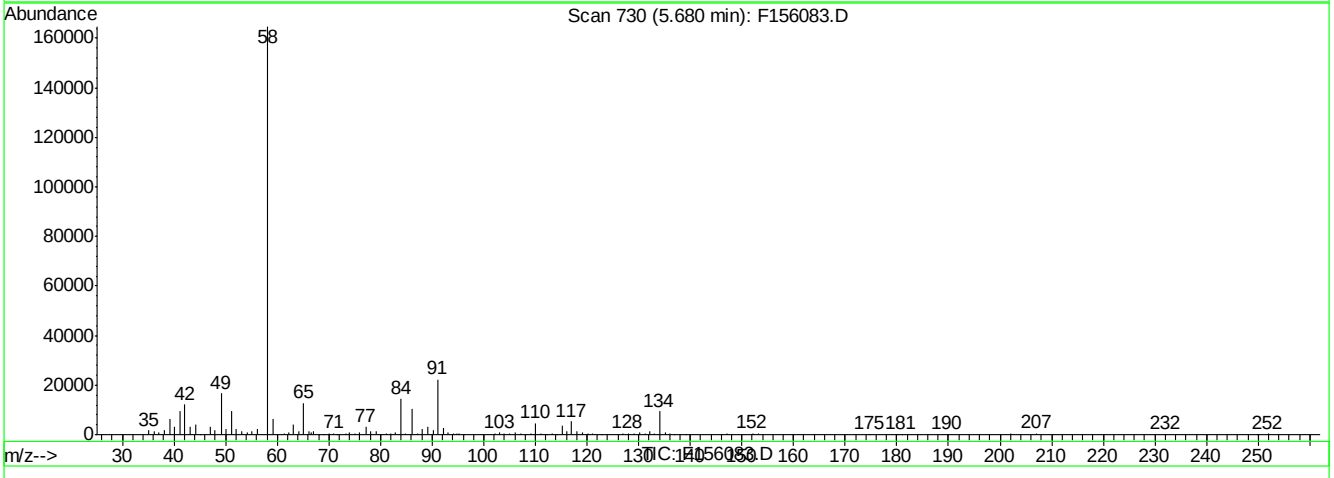
F156083.D MF6563AP9.M Fri Apr 08 15:55:54 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:56 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.68min 23.98ppm m

response 1149366

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F156083.D MF6563AP9.M Fri Apr 08 15:56:12 2016 RT1

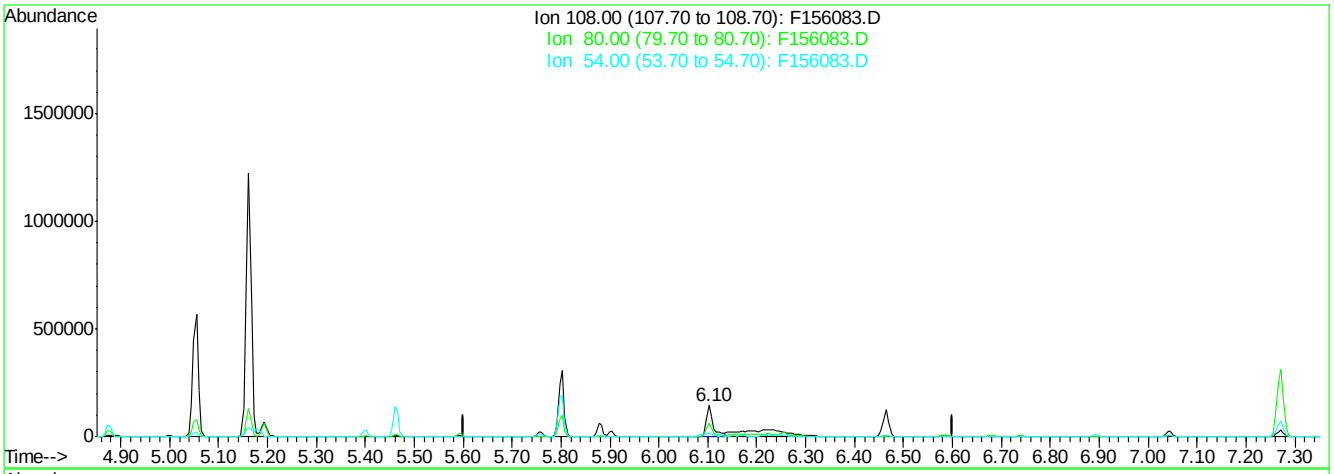
7.6.103.3

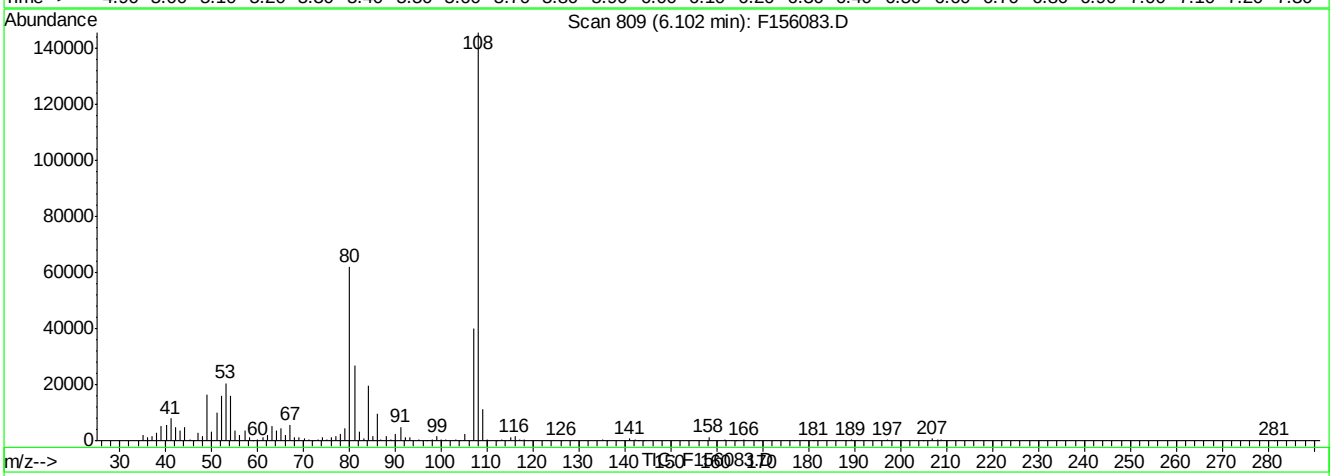
7

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:56 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(117) p-Phenylenediamine (t)

6.10min 17.43ppm

response 138045

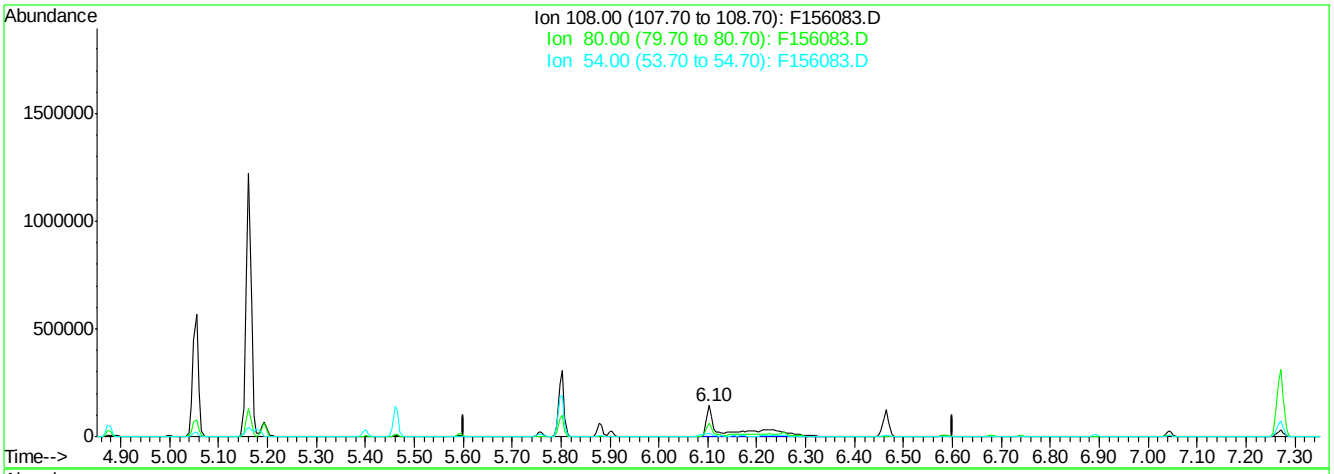
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	42.23
54.00	13.10	10.89
0.00	0.00	0.00

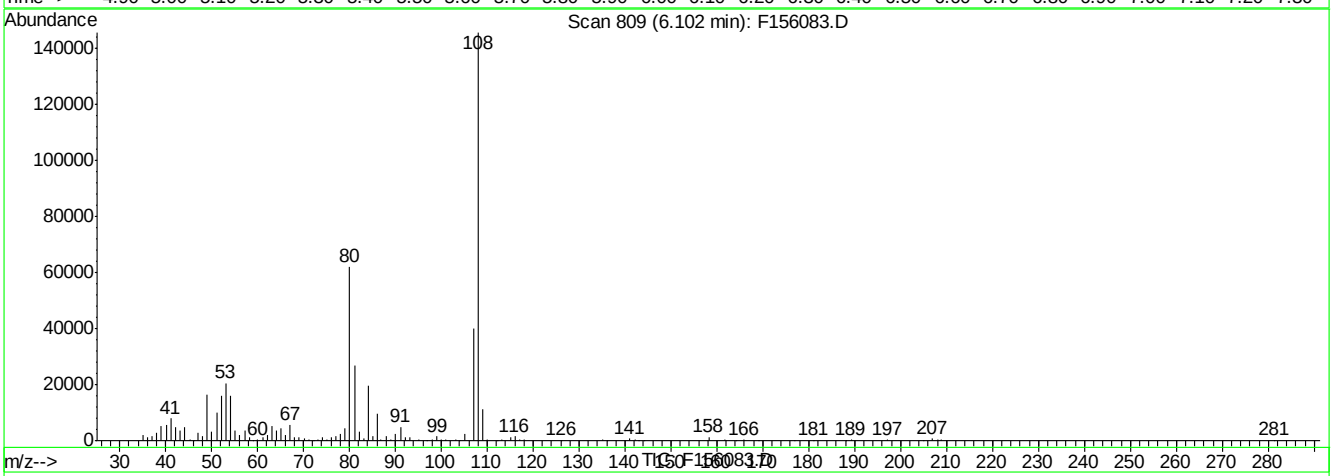
F156083.D MF6563AP9.M Fri Apr 08 15:56:16 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:56 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(117) p-Phenylenediamine (t)

6.10min 44.31ppm m

response 351007

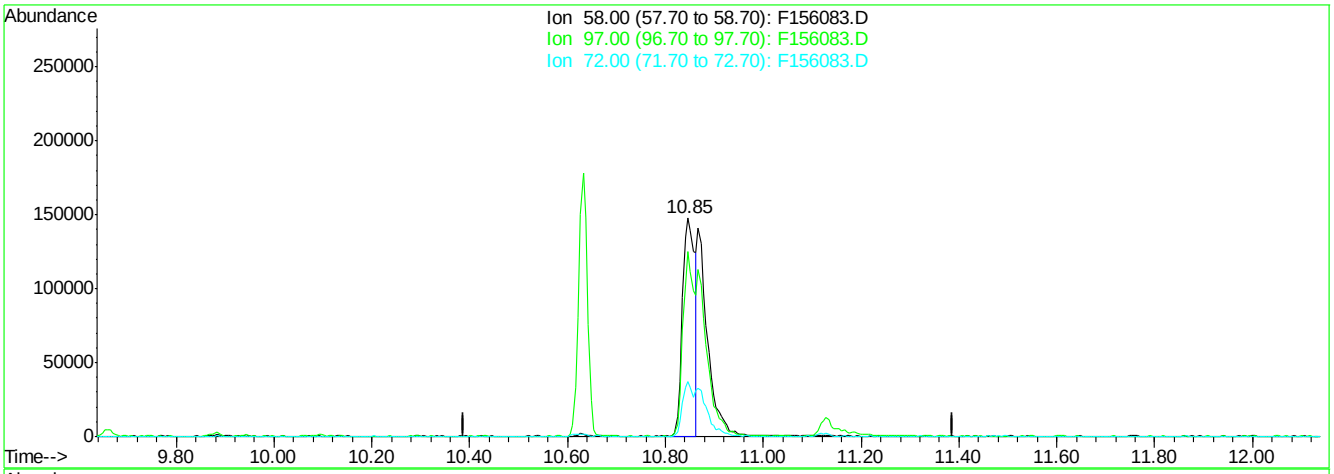
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	42.56
54.00	13.10	11.01
0.00	0.00	0.00

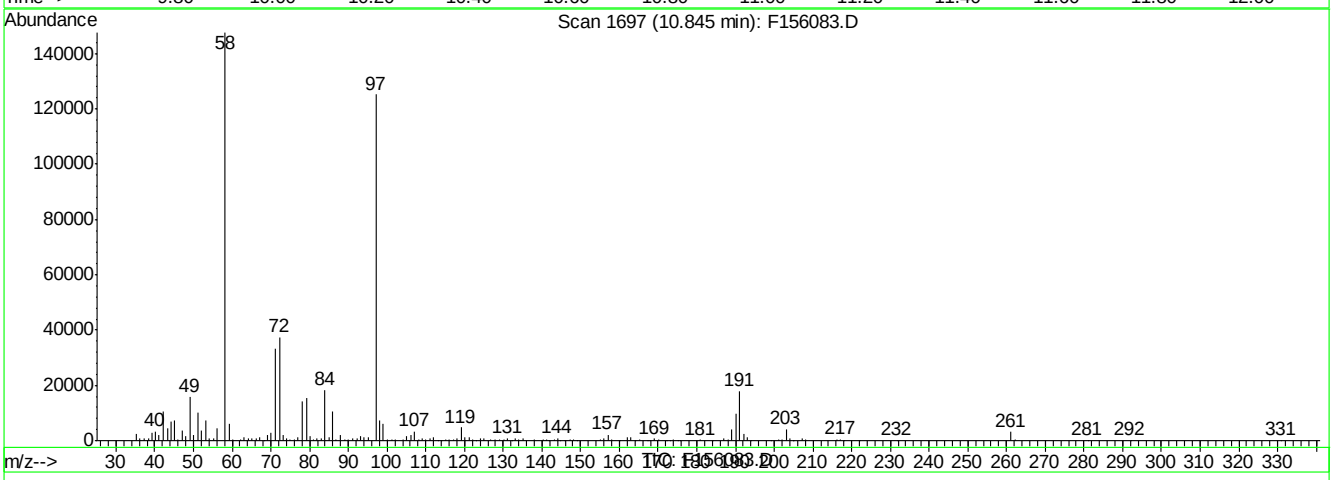
F156083.D MF6563AP9.M Fri Apr 08 15:56:27 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:56 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(145) Methapyriline (t)

10.85min 24.73ppm

response 261277

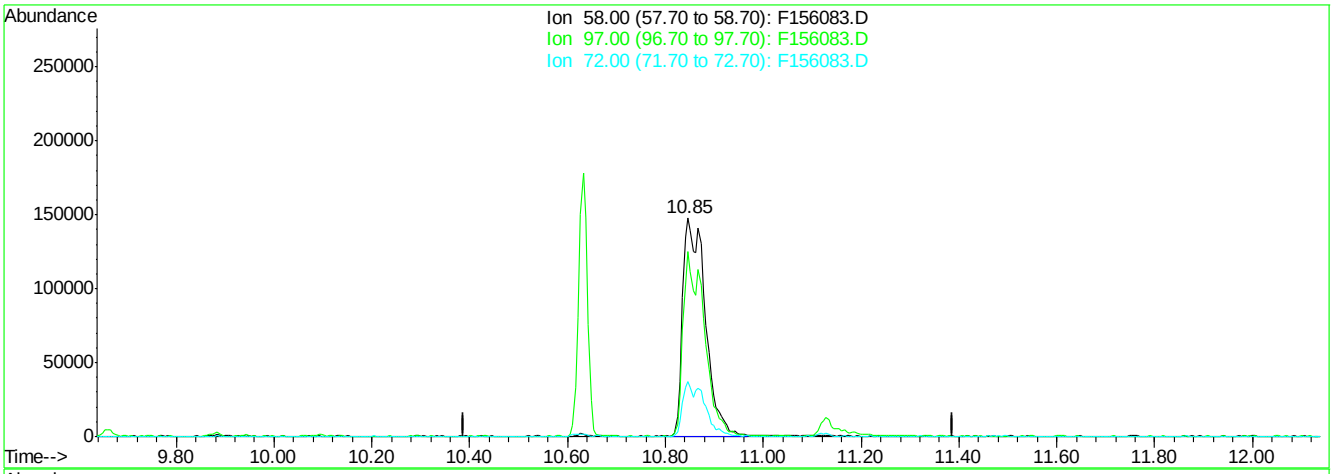
Ion	Exp%	Act%
58.00	100	100
97.00	75.70	90.53
72.00	20.60	25.48
0.00	0.00	0.00

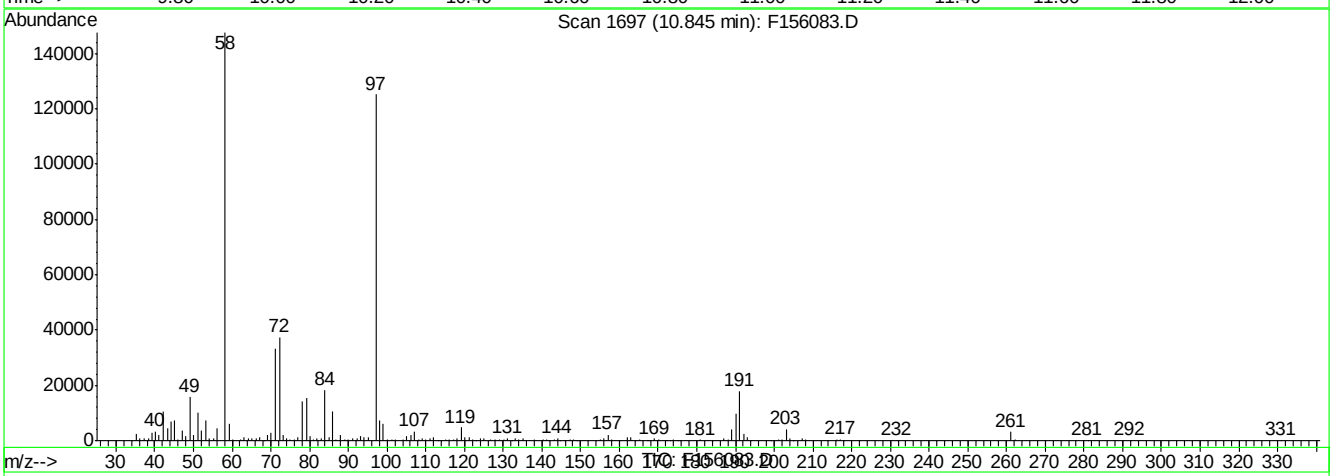
F156083.D MF6563AP9.M Fri Apr 08 15:56:45 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:56 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(145) Methapyriline (t)

10.85min 44.35ppm m

response 468473

Ion	Exp%	Act%
58.00	100	100
97.00	75.70	84.87
72.00	20.60	25.31
0.00	0.00	0.00

F156083.D MF6563AP9.M Fri Apr 08 15:56:56 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:57:27 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	560530	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2195384	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1301755	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2112789	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1879787	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1736750	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	560530	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2195384	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1301755	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2112789	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1879787	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1736750	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	560530	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2195384	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1301755	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2112789	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1879787	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	560530	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2195384	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1879787	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2195384	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1879787	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
103) 2-Picoline	3.41	93	235813	10.73	ppm	97
104) Pentachloroethane	4.67	167	79129	11.26	ppm	99
105) Methyl methanesulfonate	3.75	80	114554	10.46	ppm	97
106) N-Nitrosodiethylamine	4.06	102	99281	10.53	ppm	93
107) N-Nitrosomethylethylamine	3.51	42	89431	10.02	ppm	98
108) Ethyl methanesulfonate	4.29	79	159317	10.30	ppm	91
109) N-Nitrosopyrrolidine	5.15	41	80383	10.42	ppm	90
110) N-Nitrosomorpholine	5.18	56	109755	10.79	ppm	92
111) o-Toluidine	5.19	106	319850	12.27	ppm	98
113) O,O,O-Triethyl phosphoroth	5.59	198	90840	12.11	ppm	88
114) N-Nitrosopiperidine	5.40	42	115664	10.10	ppm	90
115) A,A-Dimethylphenethylamine	5.84	58	456477m	9.68	ppm	

(#) = qualifier out of range (m) = manual integration
F156084.D MF6563AP9.M Fri Apr 08 17:17:36 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:57:27 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

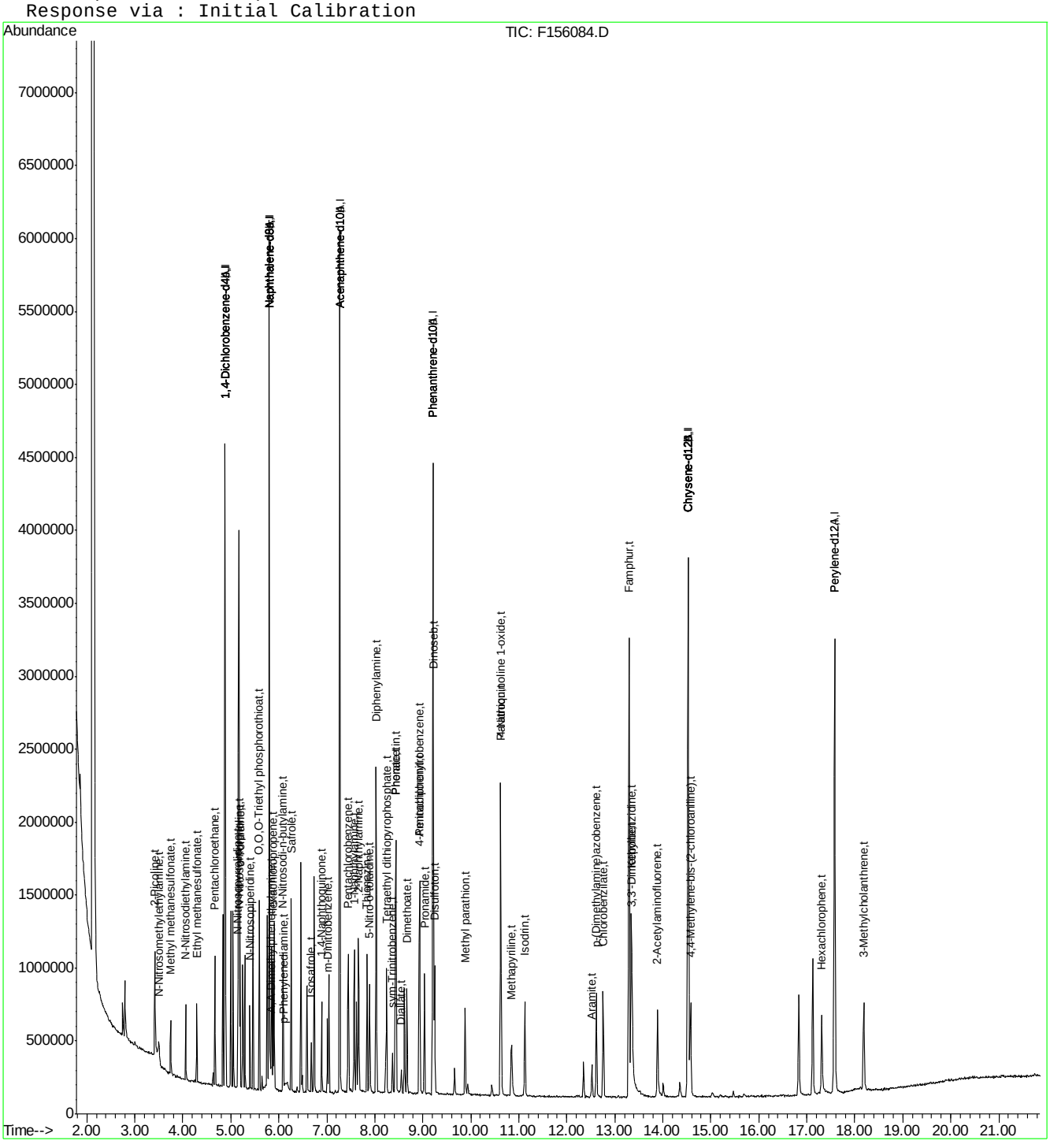
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	107544	11.20	ppm		97
117)	p-Phenylenediamine	6.10	108	114887m	14.75	ppm		
118)	N-Nitrosodi-n-butylamine	6.09	84	143598	9.35	ppm		97
119)	Safrole	6.26	162	149773	11.54	ppm		97
120)	Isosafrole	6.68	162	46968	10.00	ppm		100
122)	Thionazin	7.84	143	50612	10.68	ppm		99
123)	Tetraethyl dithiopyrophosp	8.25	322	47738	11.69	ppm		100
124)	Phorate	8.44	75	293276	11.05	ppm		100
125)	Phenacetin	8.44	108	214122	10.06	ppm		96
126)	1,4-Naphthoquinone	6.89	158	96063	12.47	ppm		93
127)	m-Dinitrobenzene	7.01	168	58187	9.52	ppm		91
128)	Pentachlorobenzene	7.44	250	140896	12.40	ppm		97
129)	1-Naphthylamine	7.57	143	293995	10.94	ppm		95
130)	2-Naphthylamine	7.66	143	359349	11.27	ppm		95
131)	5-Nitro-o-toluidine	7.89	152	121694	10.59	ppm		90
133)	Disulfoton	9.25	88	228425	10.58	ppm		88
134)	Dinoseb	9.23	211	63704	6.88	ppm		86
135)	Dimethoate	8.67	87	176718	11.84	ppm		92
136)	4-Aminobiphenyl	8.92	169	345267	20.75	ppm		99
137)	Methyl parathion	9.88	125	109143	11.26	ppm		99
138)	Parathion	10.63	109	92072	11.19	ppm		96
139)	Diphenylamine	8.03	169	637568	12.67	ppm		99
140)	Isodrin	11.13	193	65148	10.86	ppm		93
141)	Diallate	8.55	86	35963	8.18	ppm		95
142)	Pentachloronitrobenzene	8.94	295	35131	25.15	ppm		96
143)	Pronamide	9.03	173	161776	9.99	ppm		93
144)	4-Nitroquinoline 1-oxide	10.63	190	207073	37.37	ppm		90
145)	Methapyriline	10.85	58	204252	19.87	ppm		97
146)	sym-Trinitrobenzene	8.37	213	25042	6.40	ppm	#	21
148)	Aramite	12.53	185	28583	17.88	ppm		95
149)	p-(Dimethylamine)azobenzen	12.61	120	190817	10.58	ppm		68
150)	Kepone	13.35	272	220446	144.20	ppm		96
151)	Famphur	13.30	218	1202743	222.52	ppm		94
152)	2-Acetylaminofluorene	13.89	181	217875	8.98	ppm		98
153)	3,3'-Dimethylbenzidine	13.36	212	243573	61.11	ppm		98
154)	Chlorobenzilate	12.76	251	150203	10.84	ppm		97
156)	4,4-Methylene-bis-(2-chlor	14.58	266	59589	14.31	ppm		94
157)	3-Methylcholanthrene	18.19	268	240679	10.53	ppm		96
158)	Hexachlorophene	17.31	196	72352	19.84	ppm		95

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:59 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Manual Integration Approval Summary

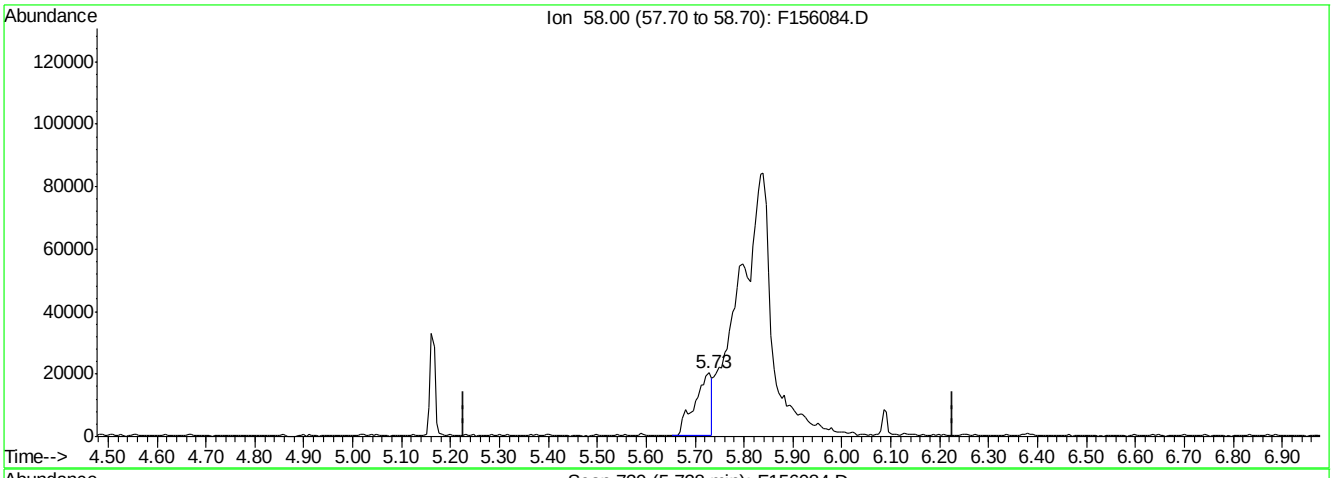
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156084.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 16:08	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

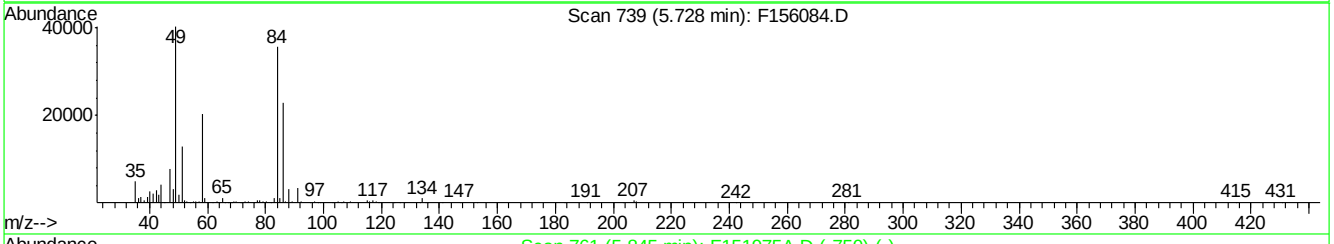
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.84	Split peak
p-Phenylenediamine	106-50-3		6.10	Split peak

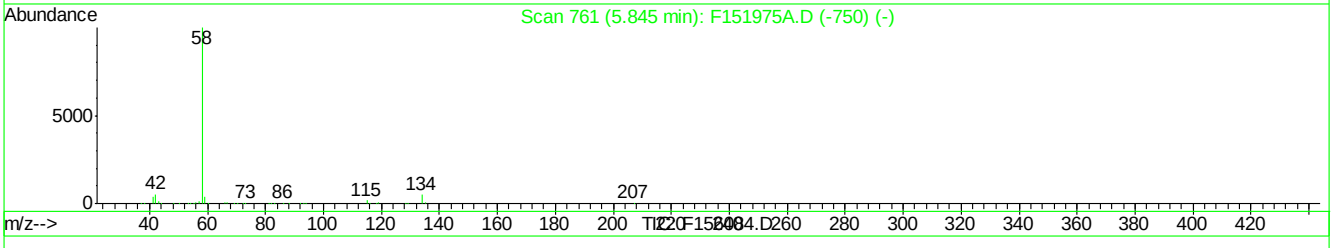
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.73min 1.03ppm

response 48498

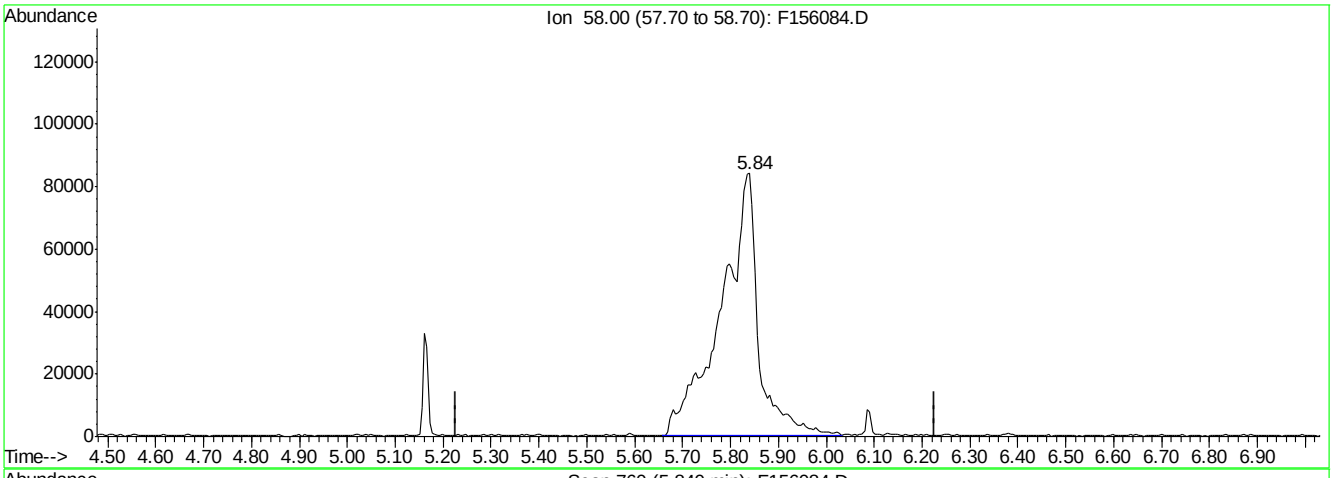
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

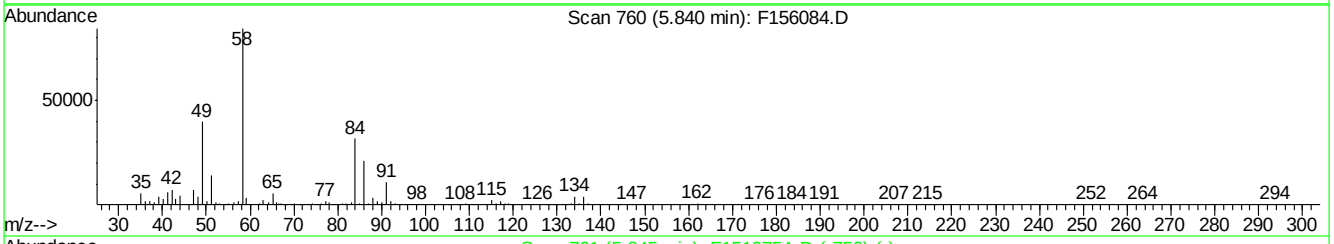
F156084.D MF6563AP9.M Fri Apr 08 15:58:19 2016 RT1

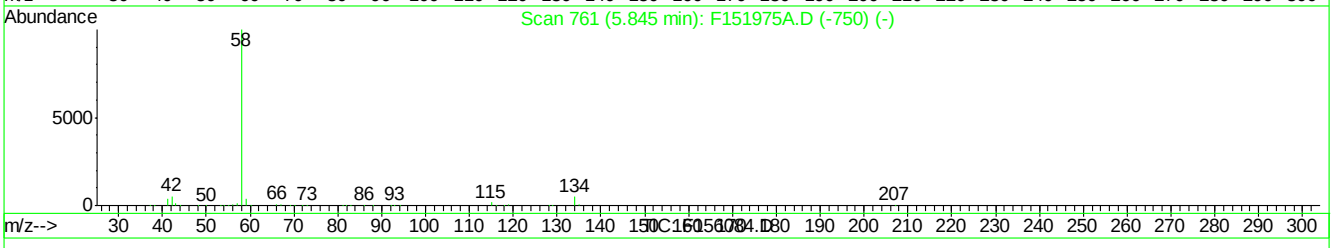
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.84min 9.68ppm m

response 456477

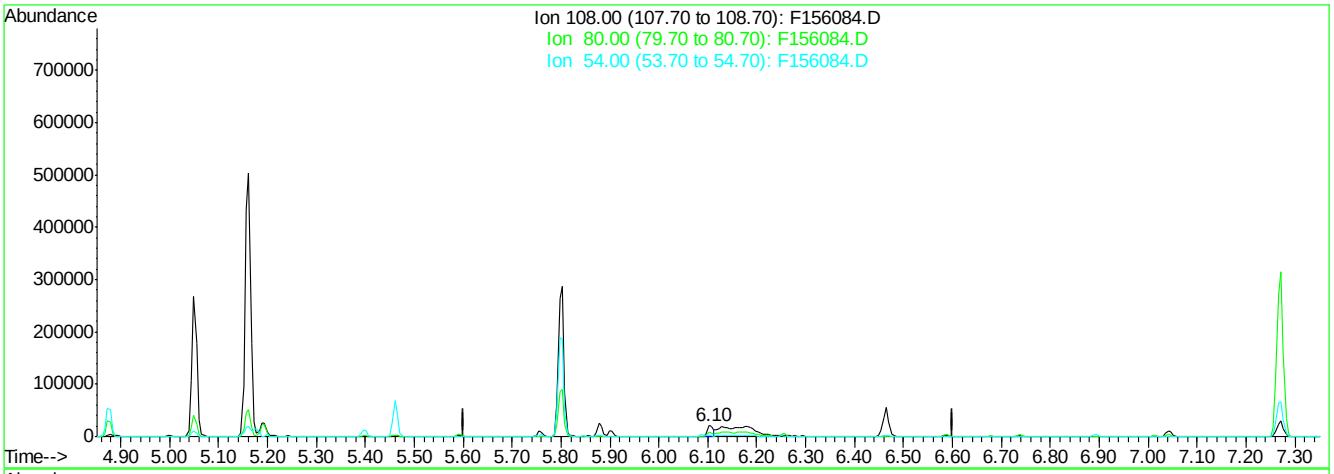
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

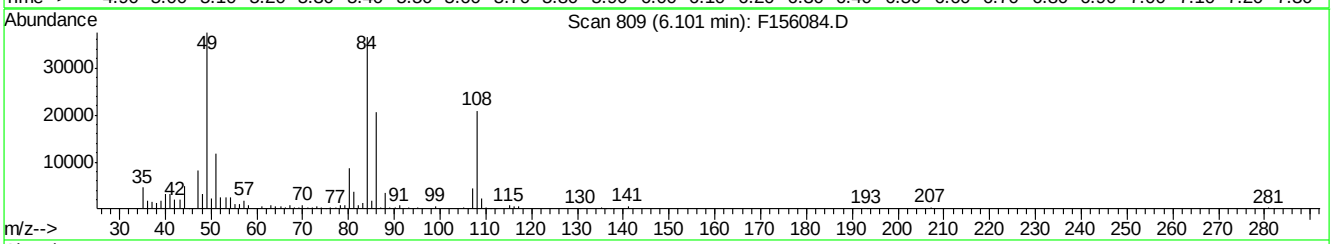
F156084.D MF6563AP9.M Fri Apr 08 15:58:34 2016 RT1

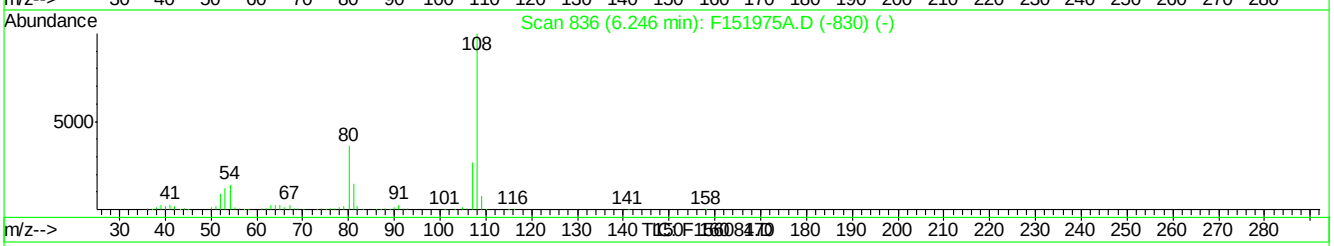
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.10min 2.33ppm

response 18176

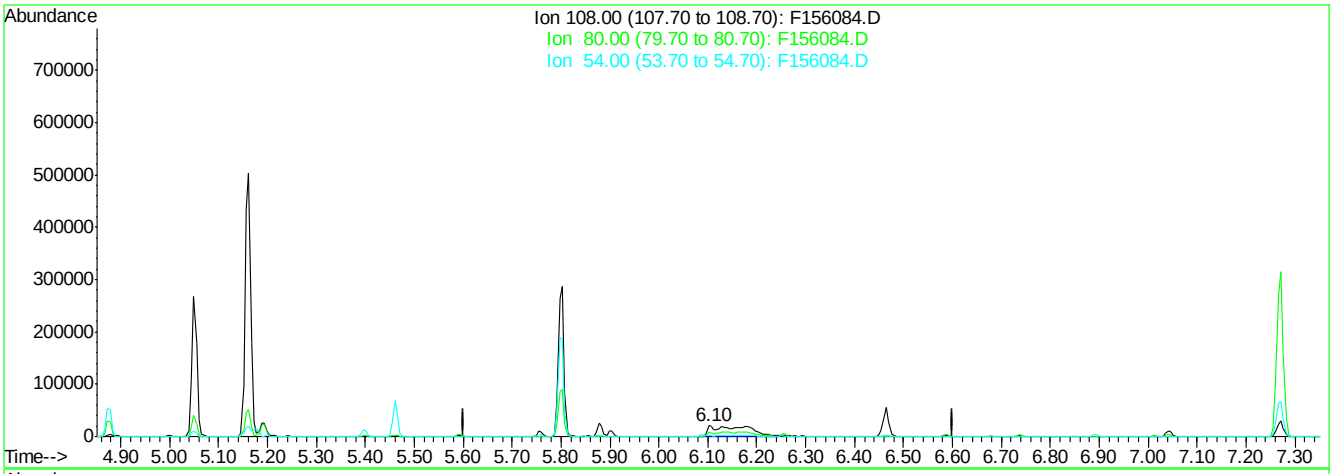
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	41.77
54.00	13.10	10.56
0.00	0.00	0.00

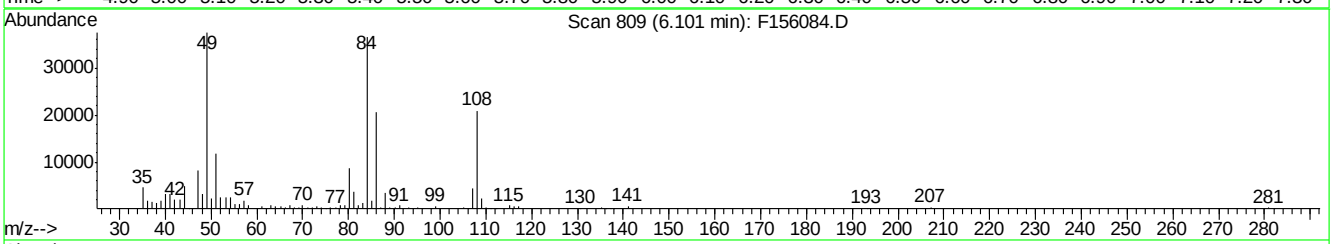
F156084.D MF6563AP9.M Fri Apr 08 15:58:38 2016 RT1

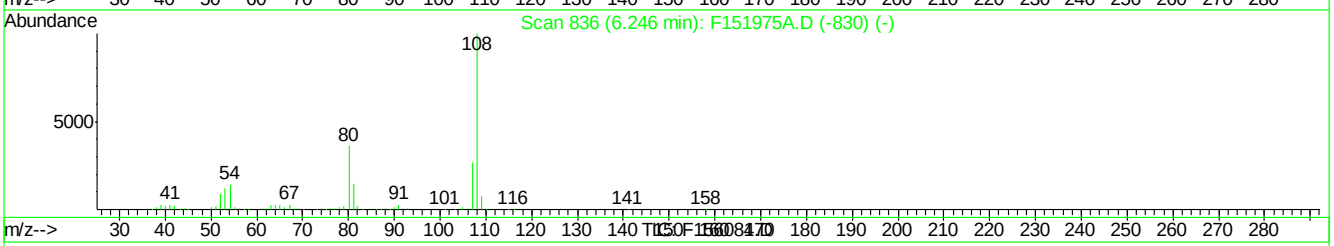
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.10min 14.75ppm m

response 114887

Ion	Exp%	Act%
108.00	100	100
80.00	38.70	42.20
54.00	13.10	12.24
0.00	0.00	0.00

F156084.D MF6563AP9.M Fri Apr 08 15:58:56 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156085.D Vial: 7
Acq On : 5 Apr 2016 4:37 pm Operator: linseyk
Sample : ic6566-5 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:00:01 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	571668	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2221839	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1343029	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2158358	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1931239	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1784391	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	571668	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2221839	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1343029	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2158358	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1931239	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1784391	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	571668	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2221839	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1343029	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2158358	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1931239	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	571668	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2221839	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1931239	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2221839	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1931239	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
103) 2-Picoline	3.42	93	133939	5.97	ppm	98
104) Pentachloroethane	4.67	167	42916	5.99	ppm	89
105) Methyl methanesulfonate	3.75	80	64936	5.81	ppm	99
106) N-Nitrosodiethylamine	4.06	102	55186	5.74	ppm	92
107) N-Nitrosomethylethylamine	3.51	42	55594	6.11	ppm	92
108) Ethyl methanesulfonate	4.29	79	91503	5.80	ppm	94
109) N-Nitrosopyrrolidine	5.15	41	38138	4.85	ppm	87
110) N-Nitrosomorpholine	5.17	56	63247	6.10	ppm	93
111) o-Toluidine	5.19	106	184731	6.95	ppm	98
113) O,O,O-Triethyl phosphoroth	5.59	198	53109	6.99	ppm	79
114) N-Nitrosopiperidine	5.40	42	65718	5.67	ppm	89
115) A,A-Dimethylphenethylamine	5.80	58	246586m	5.17	ppm	

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156085.D Vial: 7
Acq On : 5 Apr 2016 4:37 pm Operator: linseyk
Sample : ic6566-5 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:00:01 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	59679	6.14	ppm		98
117)	p-Phenylenediamine	6.13	108	51948	6.59	ppm		93
118)	N-Nitrosodi-n-butylamine	6.09	84	84584	5.44	ppm		95
119)	Safrole	6.26	162	84948	6.47	ppm		98
120)	Isosafrole	6.68	162	28306	5.96	ppm		96
122)	Thionazin	7.84	143	31609	6.46	ppm		89
123)	Tetraethyl dithiopyrophosp	8.25	322	26187	6.21	ppm		100
124)	Phorate	8.44	75	164902	6.02	ppm		100
125)	Phenacetin	8.44	108	117030	5.33	ppm		95
126)	1,4-Naphthoquinone	6.89	158	47892	6.03	ppm		93
127)	m-Dinitrobenzene	7.02	168	29872	4.74	ppm		91
128)	Pentachlorobenzene	7.44	250	79528	6.78	ppm		96
129)	1-Naphthylamine	7.57	143	177347	6.40	ppm		96
130)	2-Naphthylamine	7.66	143	190107	5.78	ppm		95
131)	5-Nitro-o-toluidine	7.89	152	67660	5.71	ppm		82
133)	Disulfoton	9.24	88	127618	5.78	ppm		90
134)	Dinoseb	9.22	211	30436	3.22	ppm		93
135)	Dimethoate	8.67	87	96041	6.30	ppm		93
136)	4-Aminobiphenyl	8.92	169	207941	12.23	ppm		98
137)	Methyl parathion	9.88	125	56120	5.67	ppm		93
138)	Parathion	10.63	109	49132	5.84	ppm		90
139)	Diphenylamine	8.03	169	362380	7.05	ppm		99
140)	Isodrin	11.13	193	38591	6.29	ppm		94
141)	Diallate	8.55	86	24670	5.50	ppm		88
142)	Pentachloronitrobenzene	8.93	295	19670	13.78	ppm		99
143)	Pronamide	9.03	173	89783	5.43	ppm		95
144)	4-Nitroquinoline 1-oxide	10.62	190	93326	16.49	ppm		87
145)	Methapyriline	10.84	58	113650	10.82	ppm		97
146)	sym-Trinitrobenzene	8.37	213	11944	2.99	ppm	#	27
148)	Aramite	12.52	185	14306	8.71	ppm		94
149)	p-(Dimethylamine)azobenzen	12.61	120	101485	5.48	ppm		71
150)	Kepone	13.35	272	136513	86.92	ppm		93
151)	Famphur	13.30	218	735694	132.48	ppm		96
152)	2-Acetylaminofluorene	13.89	181	111482	4.47	ppm		95
153)	3,3'-Dimethylbenzidine	13.36	212	155587	38.00	ppm		96
154)	Chlorobenzilate	12.76	251	78728	5.53	ppm		97
156)	4,4-Methylene-bis-(2-chlor	14.57	266	34137	7.98	ppm		81
157)	3-Methylcholanthrene	18.19	268	128363	5.47	ppm		96
158)	Hexachlorophene	17.31	196	23575	6.29	ppm		99

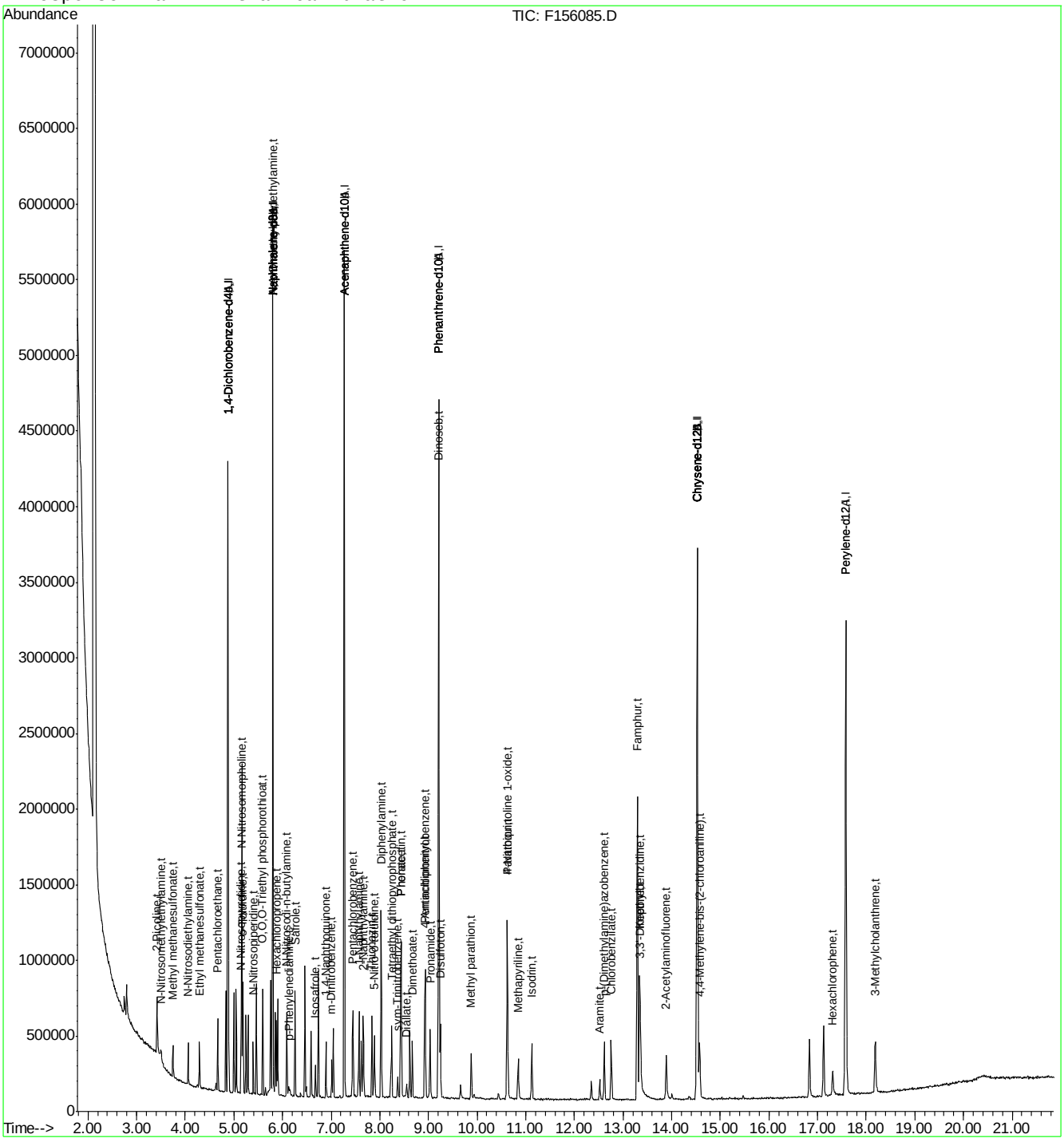
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156085.D Vial: 7
Acq On : 5 Apr 2016 4:37 pm Operator: linseyk
Sample : ic6566-5 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:01 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156085.D MF6563AP9.M Fri Apr 08 17:17:42 2016 RT1 Page 3

SGS ACCUTEST JC19423

Manual Integration Approval Summary

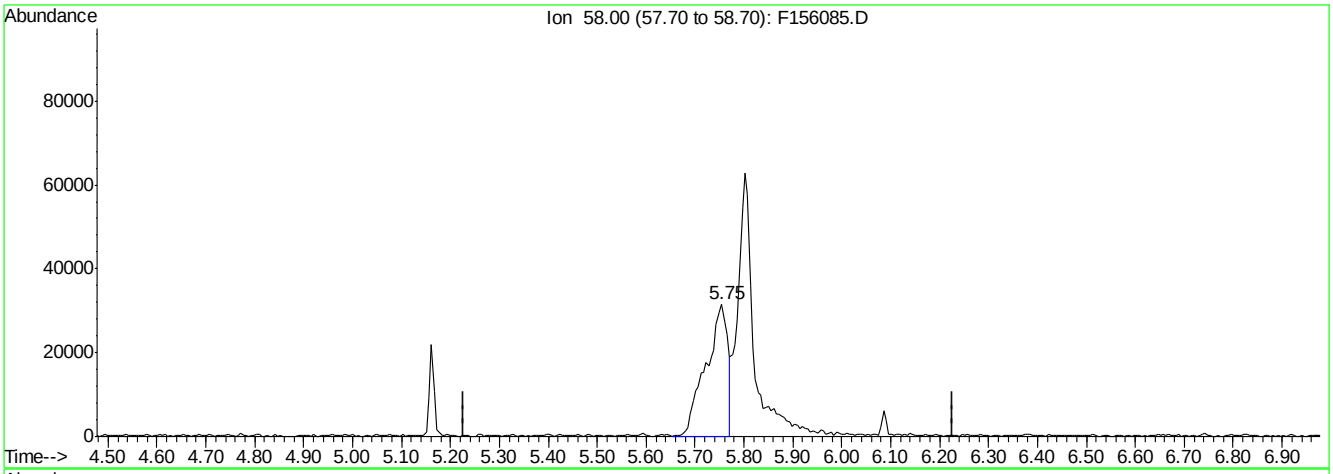
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156085.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 16:37	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

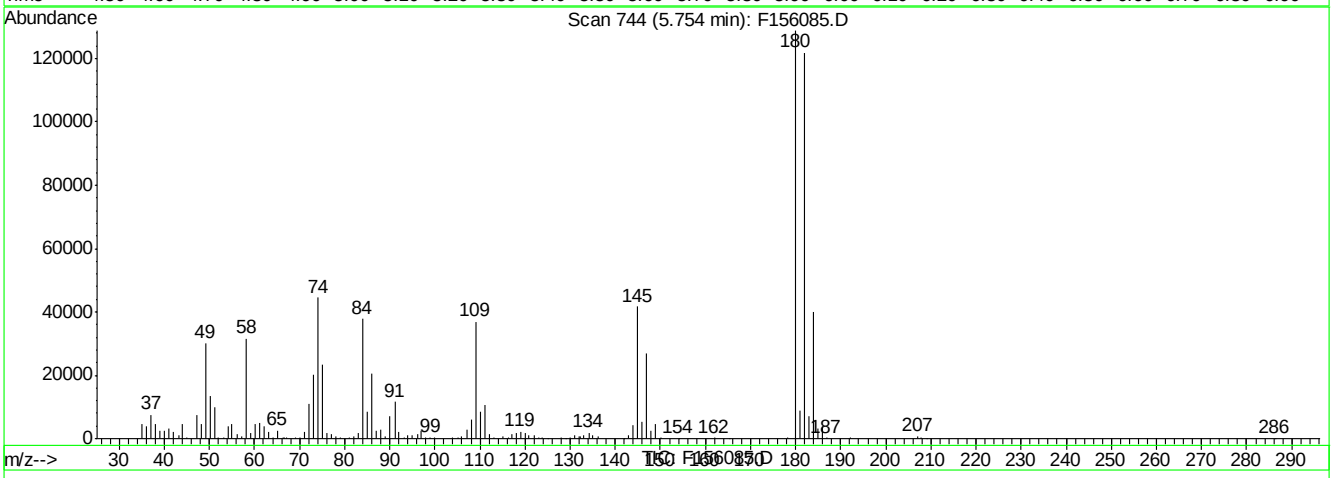
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.80	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156085.D Vial: 7
Acq On : 5 Apr 2016 4:37 pm Operator: linseyk
Sample : ic6566-5 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:00 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.75min 2.04ppm

response 97322

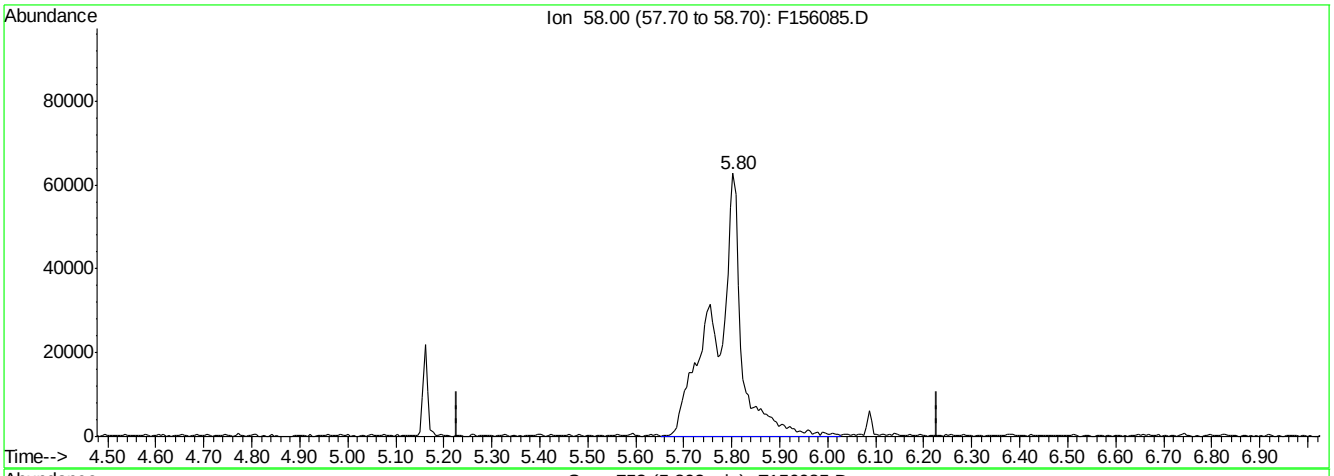
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

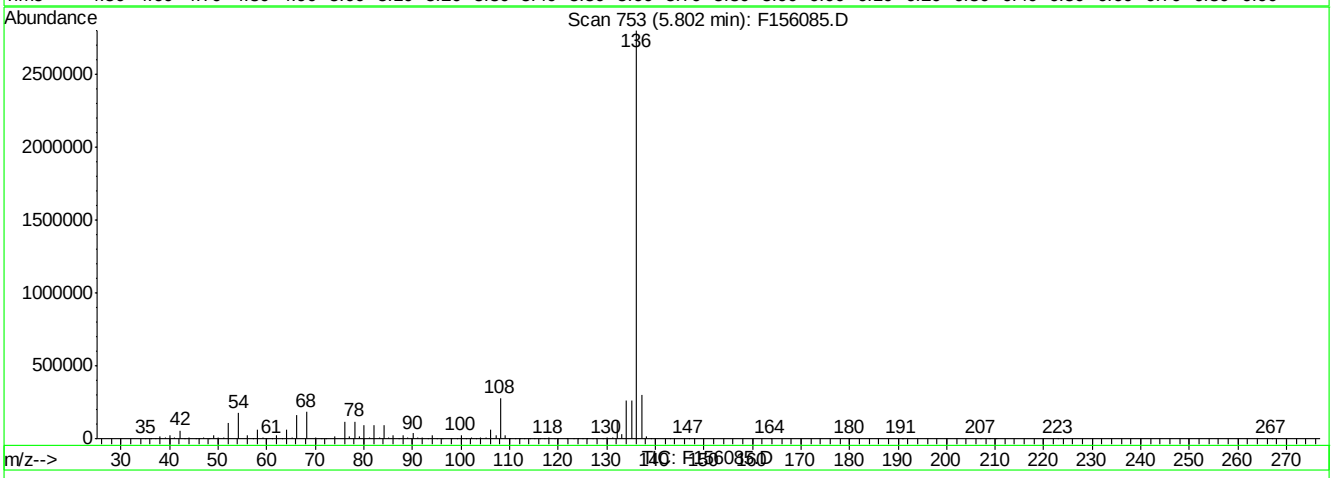
F156085.D MF6563AP9.M Fri Apr 08 16:00:54 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156085.D Vial: 7
Acq On : 5 Apr 2016 4:37 pm Operator: linseyk
Sample : ic6566-5 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.80min 5.17ppm m

response 246586

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F156085.D MF6563AP9.M Fri Apr 08 16:01:11 2016 RT1

F156086.D

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156086.D Vial: 8
Acq On : 5 Apr 2016 5:06 pm Operator: linseyk
Sample : ic6566-2 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:02:15 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	559206	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2192467	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1308474	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2125407	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1896741	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1756547	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	559206	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2192467	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1308474	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2125407	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1896741	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1756547	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	559206	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2192467	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1308474	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2125407	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1896741	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	559206	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2192467	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1896741	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2192467	40.00	ppm	0.00
180) Chrysene-d12B	14.53	240	1896741	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
103) 2-Picoline	3.43	93	50047	2.28	ppm	97
104) Pentachloroethane	4.67	167	16780	2.39	ppm	97
105) Methyl methanesulfonate	3.75	80	25038	2.29	ppm	94
106) N-Nitrosodiethylamine	4.06	102	22309	2.37	ppm	90
107) N-Nitrosomethylethylamine	3.51	42	17221	1.93	ppm	89
108) Ethyl methanesulfonate	4.29	79	36336	2.36	ppm	90
109) N-Nitrosopyrrolidine	5.15	41	13913	1.81	ppm	93
110) N-Nitrosomorpholine	5.17	56	24506	2.41	ppm	97
111) o-Toluidine	5.19	106	72094	2.77	ppm	100
113) O,O,O-Triethyl phosphoroth	5.59	198	20694	2.76	ppm	84
114) N-Nitrosopiperidine	5.40	42	24782	2.17	ppm	92
115) A,A-Dimethylphenethylamine	5.77	58	85216m	1.81	ppm	

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156086.D Vial: 8
Acq On : 5 Apr 2016 5:06 pm Operator: linseyk
Sample : ic6566-2 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:02:15 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116) Hexachloropropene	5.88	213	22192	2.32	ppm		96
117) p-Phenylenediamine	6.12	108	9100	1.17	ppm		81
118) N-Nitrosodi-n-butylamine	6.09	84	28650	1.87	ppm		99
119) Safrole	6.26	162	32661	2.52	ppm		96
120) Isosafrole	6.68	162	11076	2.36	ppm		96
122) Thionazin	7.84	143	11964	2.51	ppm		94
123) Tetraethyl dithiopyrophosp	8.25	322	9878	2.41	ppm		100
124) Phorate	8.44	75	62318	2.34	ppm		100
125) Phenacetin	8.44	108	42212	1.97	ppm		94
126) 1,4-Naphthoquinone	6.89	158	16990	2.19	ppm		89
127) m-Dinitrobenzene	7.02	168	9770	1.59	ppm		88
128) Pentachlorobenzene	7.44	250	33083	2.90	ppm		96
129) 1-Naphthylamine	7.57	143	68125	2.52	ppm		94
130) 2-Naphthylamine	7.66	143	75877	2.37	ppm		99
131) 5-Nitro-o-toluidine	7.89	152	23393	2.02	ppm		85
133) Disulfoton	9.24	88	49057	2.26	ppm		85
134) Dinoseb	9.23	211	8231	0.88	ppm		97
135) Dimethoate	8.67	87	34643	2.31	ppm		98
136) 4-Aminobiphenyl	8.92	169	86986	5.20	ppm		98
137) Methyl parathion	9.88	125	17456	1.79	ppm		95
138) Parathion	10.63	109	16307	1.97	ppm		93
139) Diphenylamine	8.03	169	142092	2.81	ppm		98
140) Isodrin	11.12	193	15511	2.57	ppm		94
141) Diallate	8.55	86	9505	2.15	ppm		88
142) Pentachloronitrobenzene	8.93	295	7034	5.01	ppm		89
143) Pronamide	9.03	173	32581	2.00	ppm		95
144) 4-Nitroquinoline 1-oxide	10.62	190	20982	3.76	ppm	#	65
145) Methapyriline	10.84	58	42021	4.06	ppm		94
146) sym-Trinitrobenzene	8.37	213	3400	0.86	ppm	#	73
148) Aramite	12.52	185	5362	3.32	ppm		84
149) p-(Dimethylamine)azobenzen	12.61	120	32165	1.77	ppm		78
150) Kepone	13.34	272	49911	32.36	ppm		98
151) Famphur	13.29	218	285304	52.31	ppm		92
152) 2-Acetylaminofluorene	13.89	181	32816	1.34	ppm		93
153) 3,3'-Dimethylbenzidine	13.36	212	60331	15.00	ppm		98
154) Chlorobenzilate	12.76	251	27193	1.95	ppm		96
156) 4,4-Methylene-bis-(2-chlor	14.57	266	12244	2.91	ppm	#	71
157) 3-Methylcholanthrene	18.18	268	44916	1.94	ppm		95
158) Hexachlorophene	17.30	196	5485	1.49	ppm		79

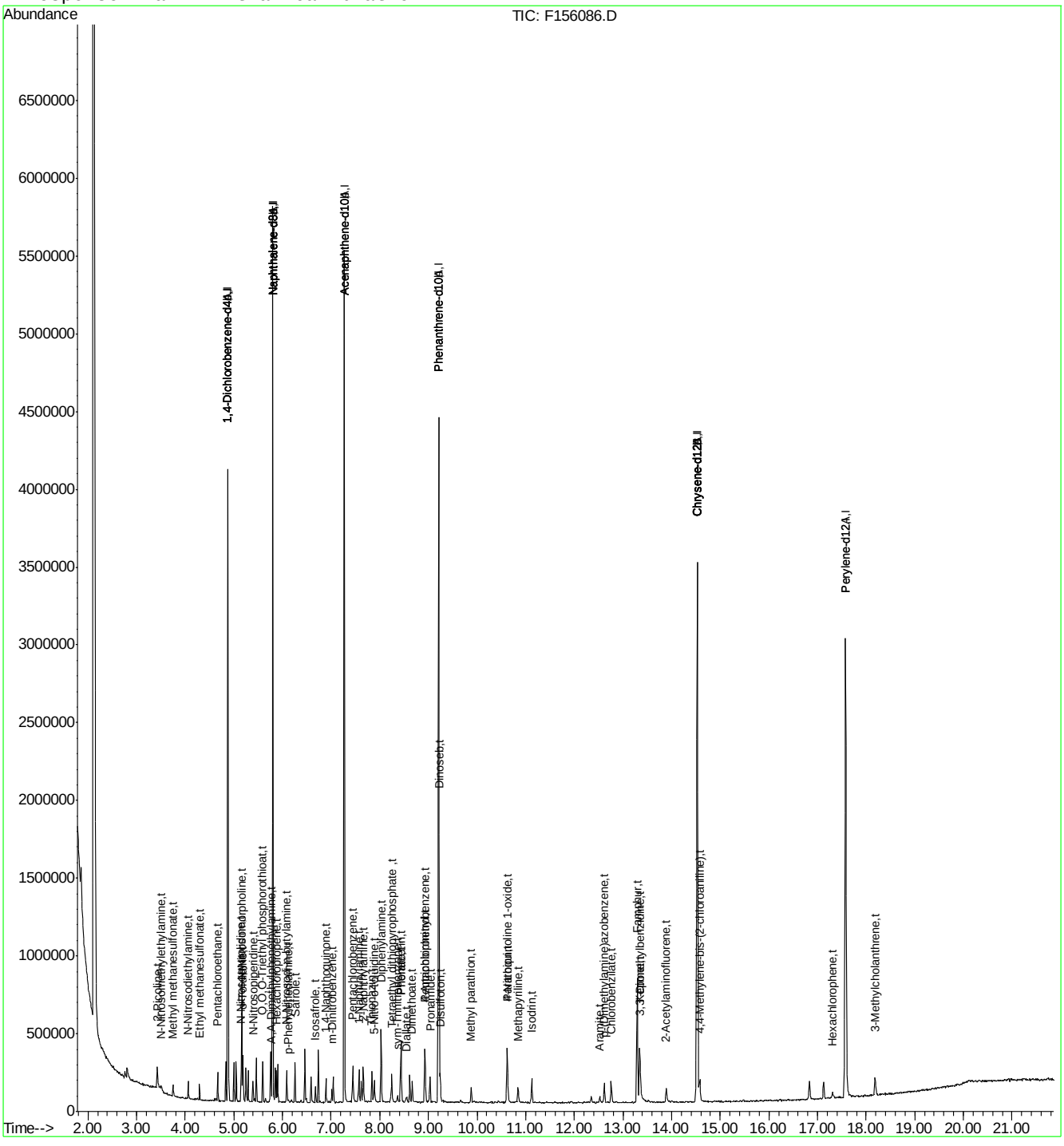
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156086.D Vial: 8
Acq On : 5 Apr 2016 5:06 pm Operator: linseyk
Sample : ic6566-2 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:04 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156086.D MF6563AP9.M Fri Apr 08 17:17:48 2016 RT1 Page 3

SGS ACCUTEST JC19423

Manual Integration Approval Summary

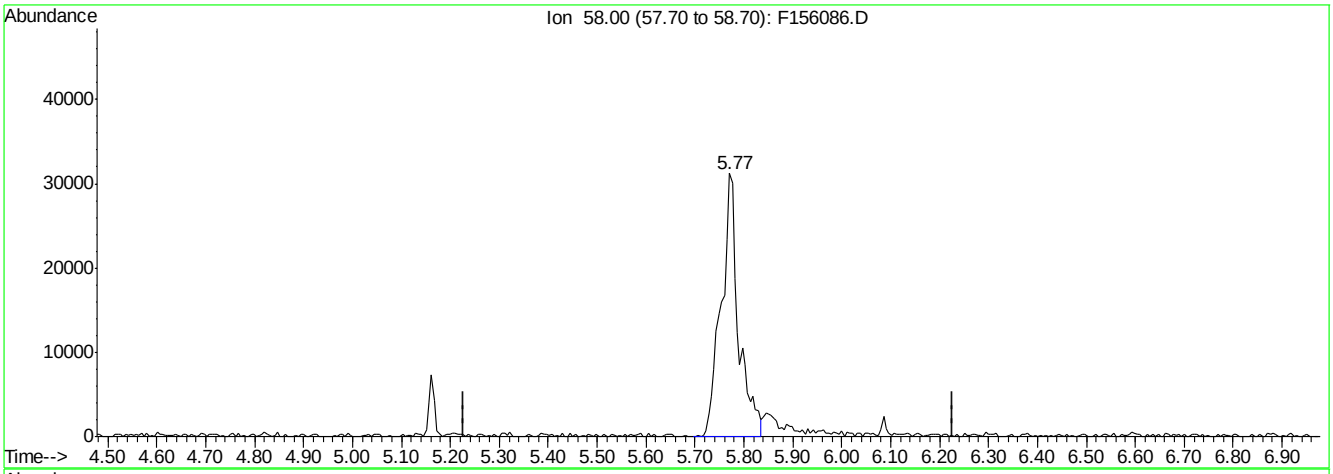
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156086.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 17:06	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

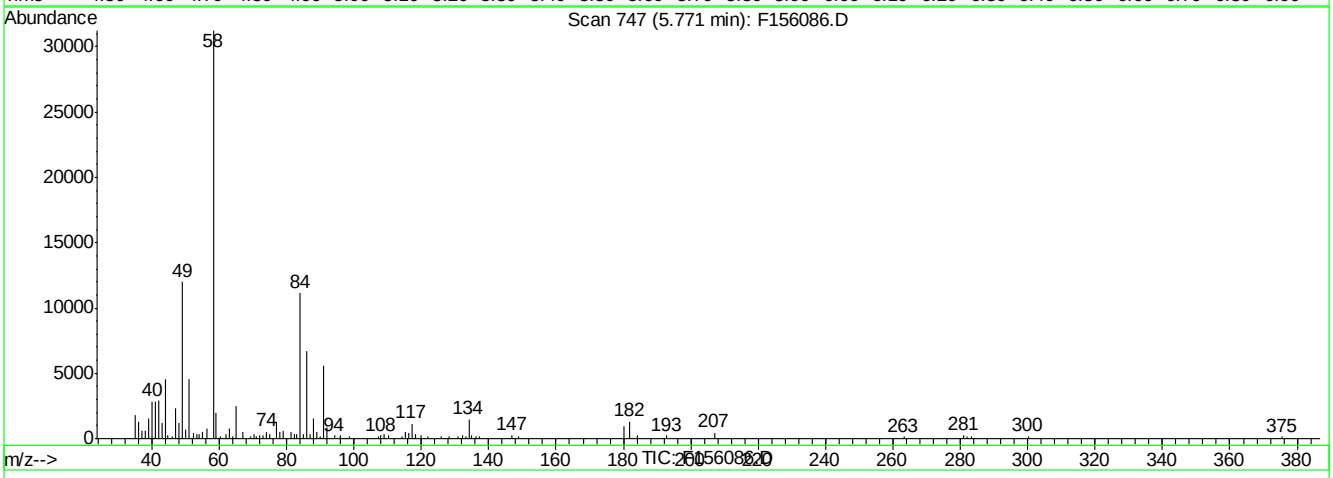
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.77	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156086.D Vial: 8
Acq On : 5 Apr 2016 5:06 pm Operator: linseyk
Sample : ic6566-2 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:02 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.77min 1.65ppm

response 77631

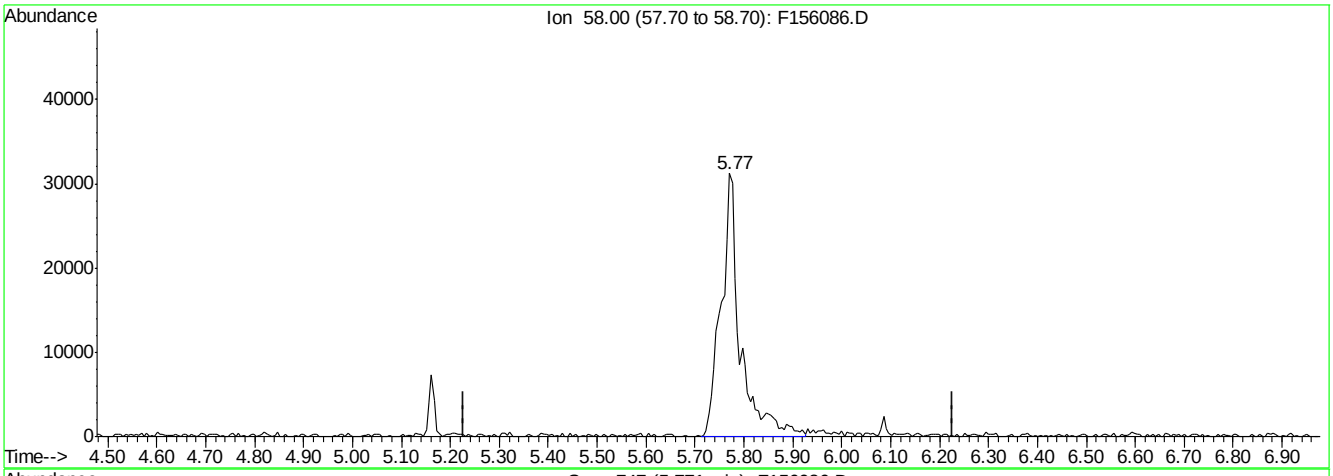
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

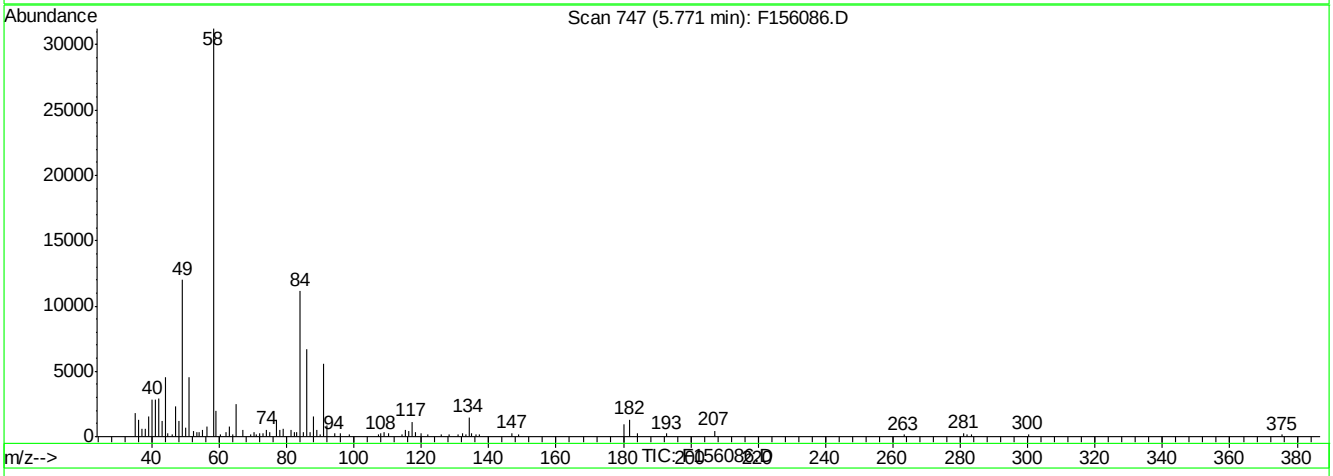
F156086.D MF6563AP9.M Fri Apr 08 16:03:09 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156086.D Vial: 8
Acq On : 5 Apr 2016 5:06 pm Operator: linseyk
Sample : ic6566-2 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:03 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.77min 1.81ppm m

response 85216

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F156086.D MF6563AP9.M Fri Apr 08 16:03:21 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya 04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156087.D Vial: 9
Acq On : 5 Apr 2016 5:35 pm Operator: linseyk
Sample : ic6566-1 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:04:31 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.87	152	551861	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2166588	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1285460	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2081549	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1831143	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1703745	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.87	152	551861	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2166588	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1285460	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2081549	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1831143	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1703745	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.87	152	551861	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2166588	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1285460	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2081549	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1831143	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.87	152	551861	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2166588	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1831143	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2166588	40.00	ppm	0.00
180) Chrysene-d12B	14.53	240	1831143	40.00	ppm	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
103) 2-Picoline	3.43	93	25192	1.16	ppm		89
104) Pentachloroethane	4.67	167	8906	1.29	ppm		95
105) Methyl methanesulfonate	3.75	80	12823	1.19	ppm		96
106) N-Nitrosodiethylamine	4.06	102	11084	1.19	ppm		92
107) N-Nitrosomethylethylamine	3.51	42	7985	0.91	ppm	#	74
108) Ethyl methanesulfonate	4.30	79	18777	1.23	ppm		92
109) N-Nitrosopyrrolidine	5.15	41	9220	1.21	ppm		86
110) N-Nitrosomorpholine	5.17	56	11962	1.19	ppm		81
111) o-Toluidine	5.19	106	39473	1.54	ppm		94
113) O,O,O-Triethyl phosphoroth	5.59	198	10010	1.35	ppm		86
114) N-Nitrosopiperidine	5.40	42	12985	1.15	ppm		93
115) A,A-Dimethylphenethylamine	5.76	58	47278m	1.02	ppm		

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156087.D Vial: 9
Acq On : 5 Apr 2016 5:35 pm Operator: linseyk
Sample : ic6566-1 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:04:31 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

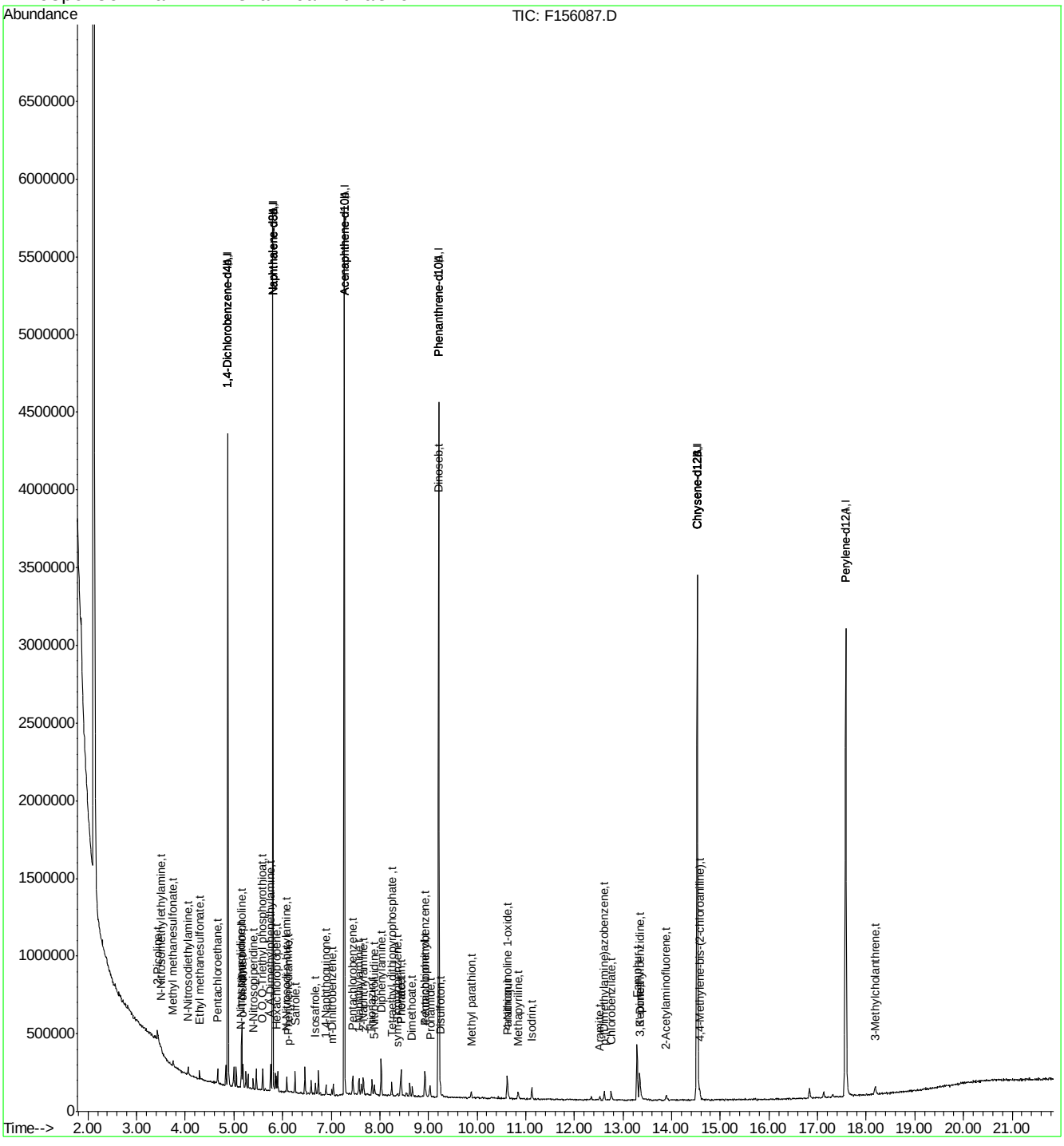
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	10799	1.14	ppm		95
117)	p-Phenylenediamine	6.12	108	6920	0.90	ppm		74
118)	N-Nitrosodi-n-butylamine	6.09	84	20515	1.35	ppm		93
119)	Safrole	6.26	162	15617	1.22	ppm		96
120)	Isosafrole	6.68	162	5920	1.28	ppm		94
122)	Thionazin	7.84	143	6097	1.30	ppm		90
123)	Tetraethyl dithiopyrophosp	8.25	322	4586	1.14	ppm		100
124)	Phorate	8.44	75	28794	1.10	ppm		100
125)	Phenacetin	8.44	108	17636	0.84	ppm		98
126)	1,4-Naphthoquinone	6.89	158	7663	1.01	ppm		97
127)	m-Dinitrobenzene	7.02	168	4425	0.73	ppm	#	65
128)	Pentachlorobenzene	7.44	250	15631	1.39	ppm		91
129)	1-Naphthylamine	7.57	143	33826	1.28	ppm		95
130)	2-Naphthylamine	7.66	143	40769	1.30	ppm		99
131)	5-Nitro-o-toluidine	7.89	152	10287	0.91	ppm		87
133)	Disulfoton	9.25	88	23371	1.10	ppm		94
134)	Dinoseb	9.22	211	3643	0.40	ppm		74
135)	Dimethoate	8.67	87	16680	1.13	ppm		95
136)	4-Aminobiphenyl	8.92	169	43927	2.68	ppm		96
137)	Methyl parathion	9.88	125	7296	0.76	ppm		90
138)	Parathion	10.63	109	6747	0.83	ppm		89
139)	Diphenylamine	8.03	169	68602	1.38	ppm		99
140)	Isodrin	11.12	193	7696	1.30	ppm		82
142)	Pentachloronitrobenzene	8.93	295	3407	2.48	ppm		92
143)	Pronamide	9.03	173	14300	0.90	ppm		95
144)	4-Nitroquinoline 1-oxide	10.62	190	8547	1.57	ppm		88
145)	Methapyriline	10.84	58	21748	2.15	ppm		97
146)	sym-Trinitrobenzene	8.37	213	1723	0.45	ppm	#	71
148)	Aramite	12.52	185	1713	1.10	ppm	#	73
149)	p-(Dimethylamine)azobenzen	12.61	120	13756	0.78	ppm		61
150)	Kepone	13.35	272	21712	14.58	ppm		81
151)	Famphur	13.29	218	133795	25.41	ppm		95
152)	2-Acetylaminofluorene	13.89	181	12080	0.51	ppm		84
153)	3,3'-Dimethylbenzidine	13.36	212	27072	6.97	ppm		98
154)	Chlorobenzilate	12.76	251	12310	0.91	ppm		93
156)	4,4-Methylene-bis-(2-chlor	14.58	266	5665	1.39	ppm	#	52
157)	3-Methylcholanthrene	18.18	268	19836	0.88	ppm		90

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156087.D Vial: 9
Acq On : 5 Apr 2016 5:35 pm Operator: linseyk
Sample : ic6566-1 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:06 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Manual Integration Approval Summary

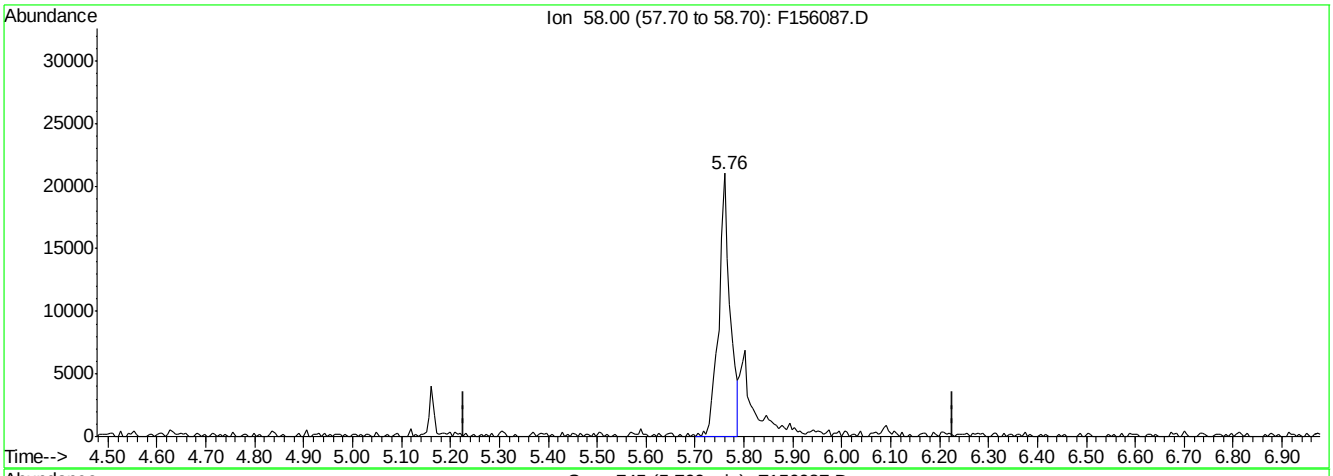
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156087.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 17:35	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

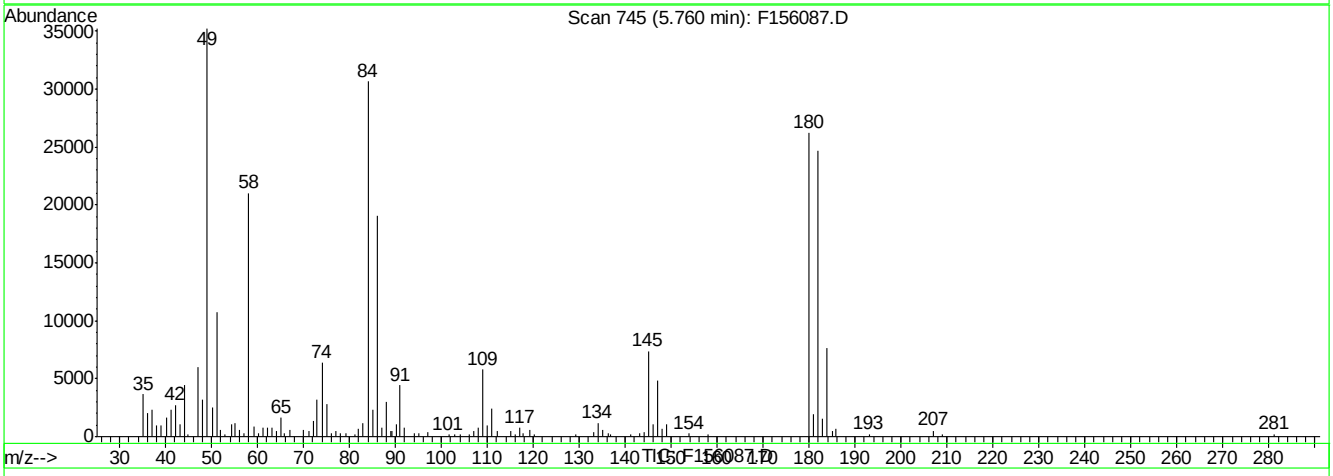
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.76	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156087.D Vial: 9
Acq On : 5 Apr 2016 5:35 pm Operator: linseyk
Sample : ic6566-1 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:04 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.76min 0.72ppm

response 33333

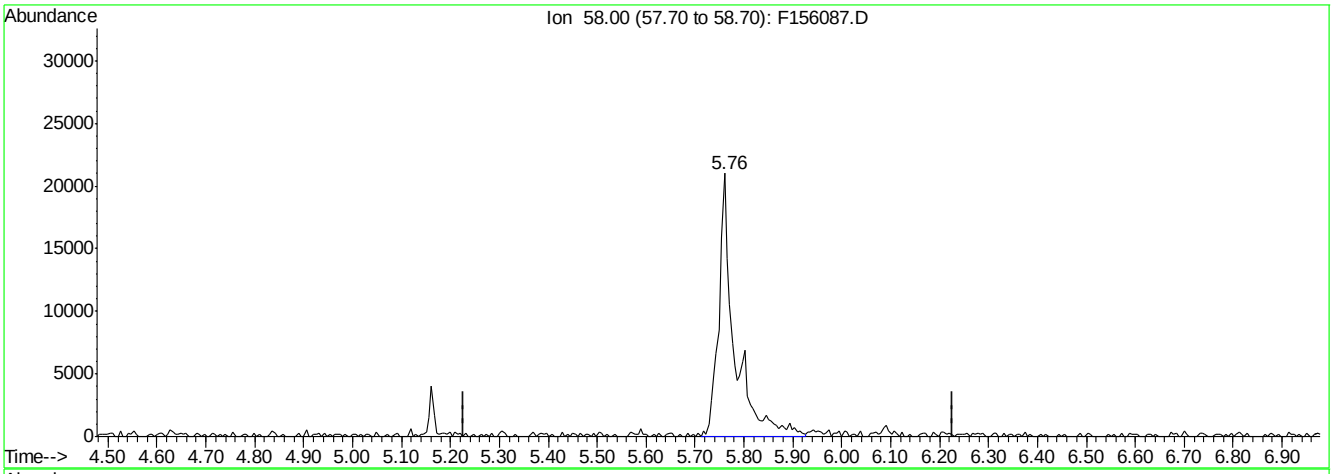
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

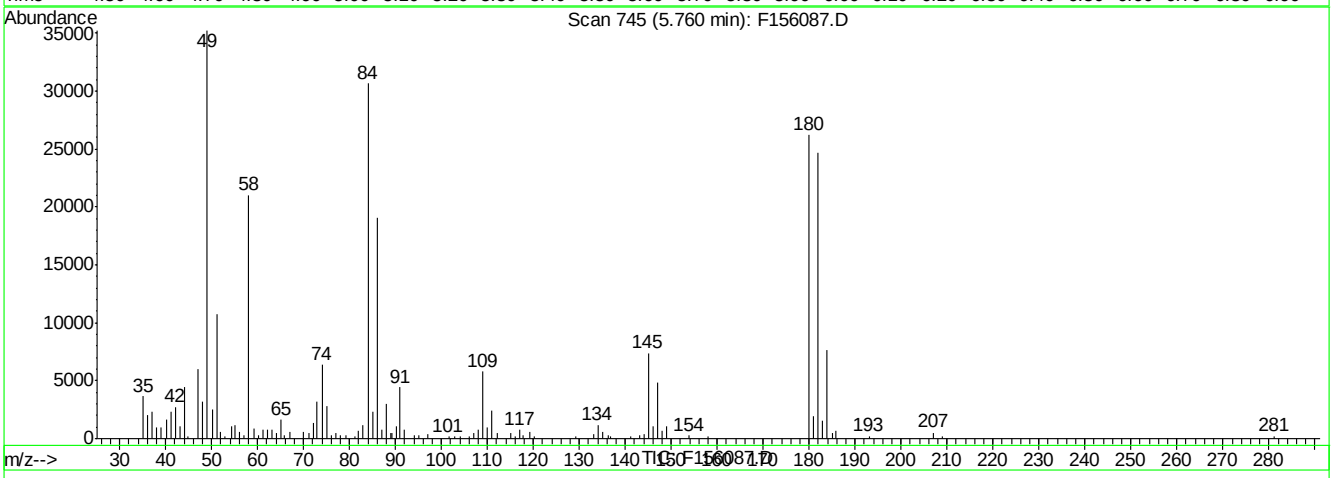
F156087.D MF6563AP9.M Fri Apr 08 16:05:11 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156087.D Vial: 9
Acq On : 5 Apr 2016 5:35 pm Operator: linseyk
Sample : ic6566-1 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:05 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.76min 1.02ppm m

response 47278

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F156087.D MF6563AP9.M Fri Apr 08 16:05:23 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D Vial: 10
Acq On : 5 Apr 2016 10:16 pm Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:44:02 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.87	152	549264	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2140076	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1242814	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2015567	40.00	ppm	0.00
83) Chrysene-d12	14.52	240	1762466	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1617527	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.87	152	549264	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2140076	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1242814	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2015567	40.00	ppm	0.00
147) Chrysene-d12A	14.52	240	1762466	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1617527	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.87	152	549264	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2140076	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1242814	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2015567	40.00	ppm	0.00
167) Chrysene-d12b	14.52	240	1762466	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.87	152	549264	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2140076	40.00	ppm	0.00
176) Chrysene-d12c	14.52	240	1762466	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2140076	40.00	ppm	0.00
180) Chrysene-d12B	14.52	240	1762466	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
162) Hydroquinone	6.07	110	986234	56.47	ppm	92

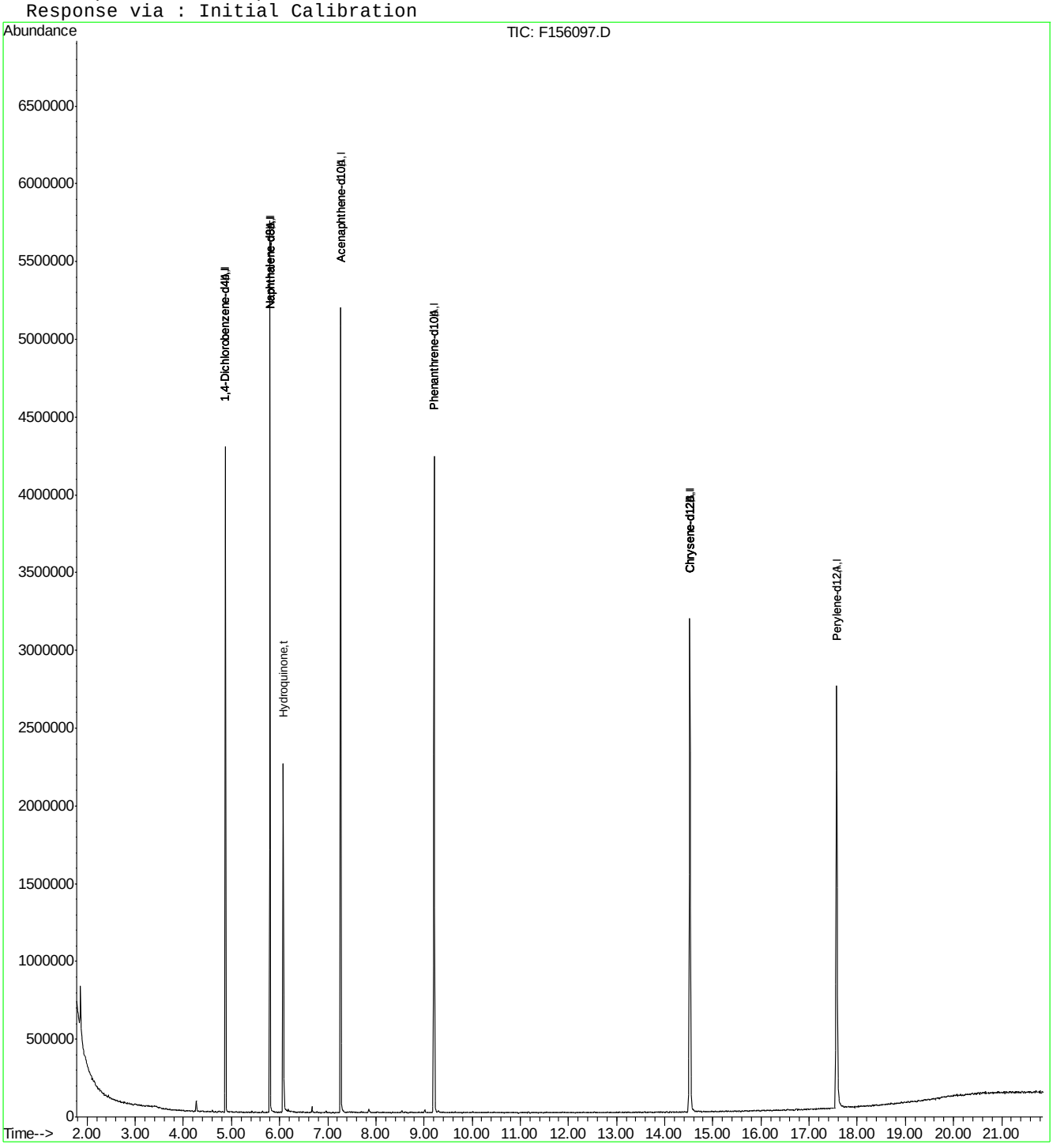
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D Vial: 10
Acq On : 5 Apr 2016 10:16 pm Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:45 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156097.D MF6563AP9.M Fri Apr 08 17:25:26 2016 RT1 Page 2

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/11/16 09:37

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:50:00 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	607740	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2295064	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1307094	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2046047	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1726041	40.00	ppm	0.00
92) Perylene-d12	17.57	264	1493872	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4A	4.88	152	607740	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2295064	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1307094	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2046047	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1726041	40.00	ppm	0.00
155) Perylene-d12A	17.57	264	1493872	40.00	ppm	-0.02
159) 1,4-Dichlorobenzene-d4b	4.88	152	607740	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2295064	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1307094	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2046047	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1726041	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	607740	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2295064	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1726041	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2295064	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1726041	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
103) 2-Picoline	3.41	93	1160026	45.92	ppm	97
104) Pentachloroethane	4.67	167	378269	45.04	ppm	99
105) Methyl methanesulfonate	3.75	80	619513	48.73	ppm	100
106) N-Nitrosodiethylamine	4.07	102	504839	46.57	ppm	95
107) N-Nitrosomethylethylamine	3.51	42	465045	48.78	ppm	98
108) Ethyl methanesulfonate	4.30	79	821274	46.24	ppm	98
109) N-Nitrosopyrrolidine	5.15	41	368370	45.21	ppm	88
110) N-Nitrosomorpholine	5.18	56	517416	43.21	ppm	98
111) o-Toluidine	5.19	106	1412431	41.03	ppm	97
113) O,O,O-Triethyl phosphoroth	5.59	198	433738	46.18	ppm	95
114) N-Nitrosopiperidine	5.40	42	594242	48.04	ppm	94
115) A,A-Dimethylphenethylamine	5.67	58	2390261m	49.75	ppm	

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:50:00 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
116) Hexachloropropene	5.88	213	524601	47.61	ppm	98
117) p-Phenylenediamine	6.11	108	944525	82.25	ppm	97
118) N-Nitrosodi-n-butylamine	6.09	84	907760	58.97	ppm	90
119) Safrole	6.26	162	779775	50.65	ppm	99
120) Isosafrole	6.68	162	798138	114.81	ppm	98
122) Thionazin	7.84	143	249836	47.08	ppm	98
123) Tetraethyl dithiopyrophosp	8.25	322	219457	48.49	ppm	100
124) Phorate	8.44	75	1388067	48.61	ppm	100
125) Phenacetin	8.46	108	1004279	48.01	ppm	96
126) 1,4-Naphthoquinone	6.90	158	649305	69.54	ppm	91
128) Pentachlorobenzene	7.44	250	642358	46.65	ppm	99
131) 5-Nitro-o-toluidine	7.90	152	466042	40.23	ppm	86
133) Disulfoton	9.25	88	1116689	50.42	ppm	98
135) Dimethoate	8.68	87	621730	38.57	ppm	97
136) 4-Aminobiphenyl	8.93	169	1046655	56.72	ppm	99
137) Methyl parathion	9.88	125	367818	38.62	ppm	97
138) Parathion	10.63	109	410834	50.96	ppm	99
140) Isodrin	11.12	193	323311	49.71	ppm	97
141) Diallate	8.55	86	164354	45.34	ppm	92
142) Pentachloronitrobenzene	8.94	295	82827	51.63	ppm	92
143) Pronamide	9.04	173	864735	54.52	ppm	99
144) 4-Nitroquinoline 1-oxide	10.63	190	179665	37.84	ppm	96
145) Methapyriline	10.84	58	621582	40.65	ppm	96
148) Aramite	12.53	185	191414	129.41	ppm	96
149) p-(Dimethylamine)azobenzen	12.62	120	925653	56.75	ppm	99
150) Kepone	13.58	272	112333m	41.38	ppm	
152) 2-Acetylaminofluorene	13.90	181	1087551	53.24	ppm	98
153) 3,3'-Dimethylbenzidine	13.36	212	653798	38.25	ppm	98
154) Chlorobenzilate	12.76	251	690717	53.27	ppm	97
157) 3-Methylcholanthrene	18.18	268	1046690	53.06	ppm	98

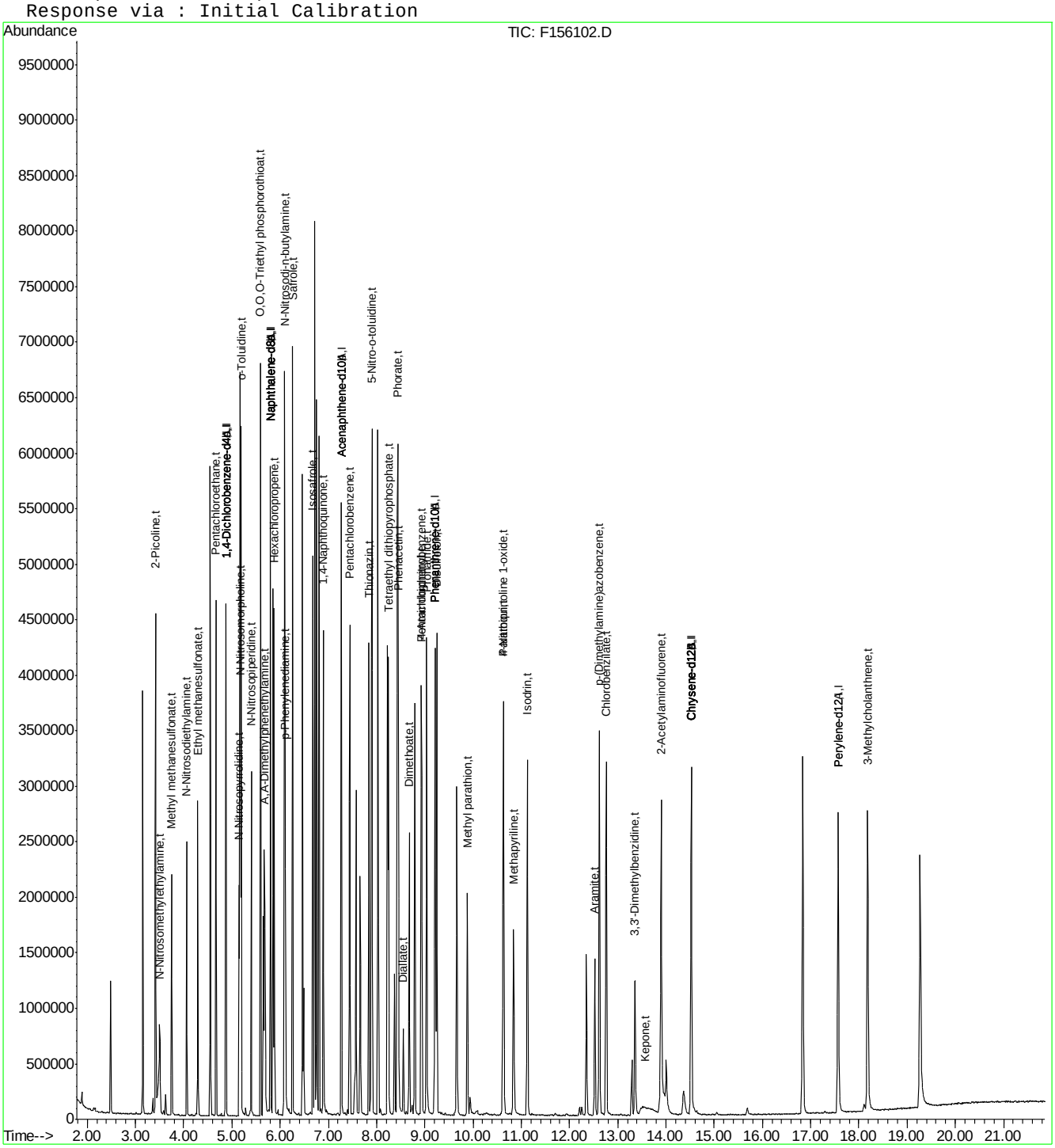
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 17:13 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

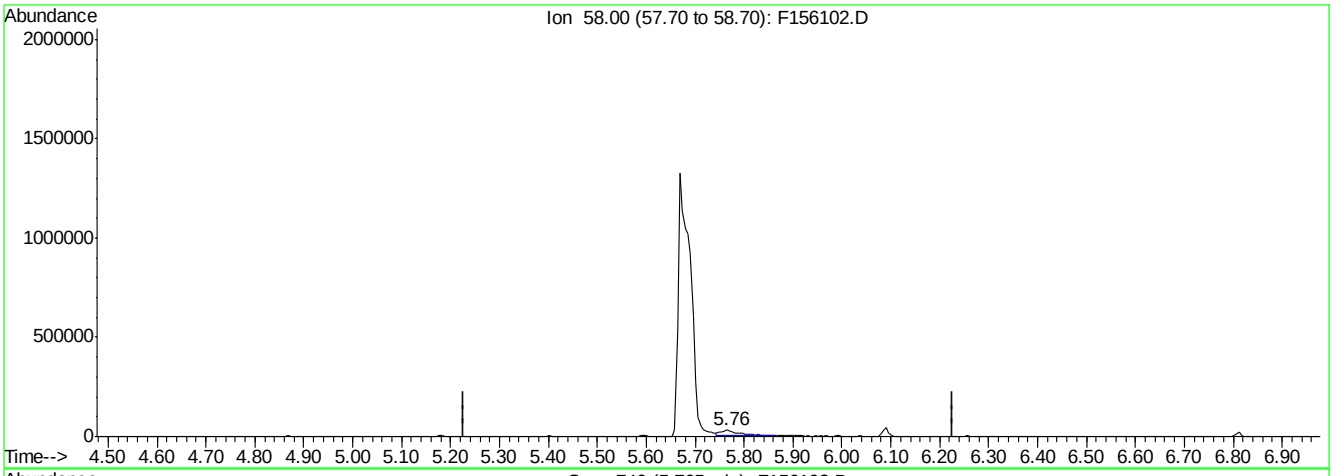
Sample Number:	EF6567-ICV6566	**Method:**	SW846 8270D
Lab FileID:	F156102.D	**Analyst approved:**	04/08/16 17:45 Kristi Schollenberger
Injection Time:	04/06/16 00:41	**Supervisor approved:**	04/11/16 09:37 Kristi Schollenberger

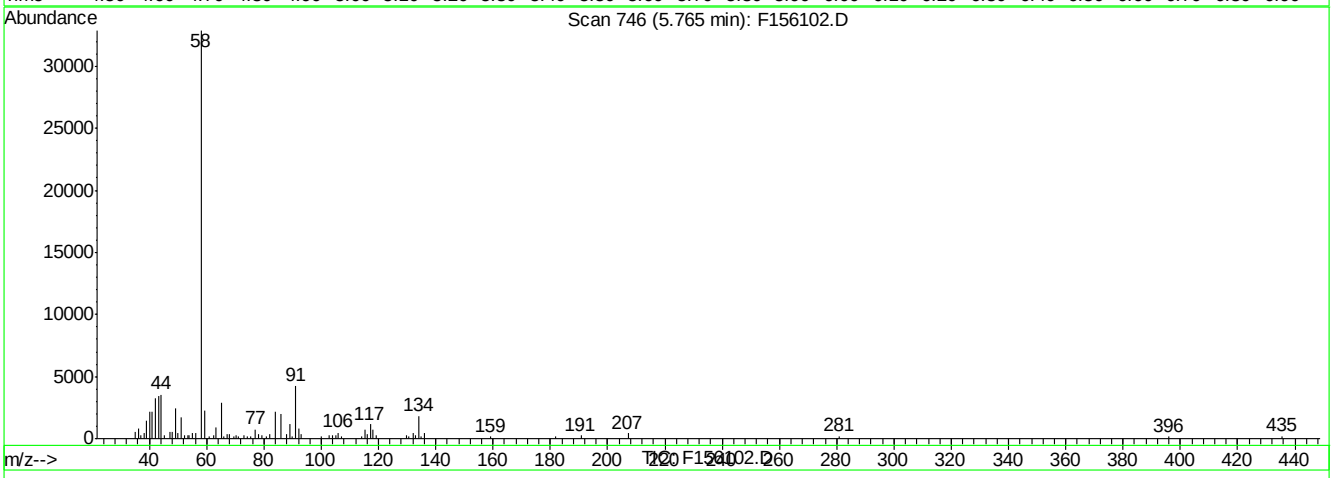
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.67	Split peak
Kepone	143-50-0		13.58	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.76min 1.37ppm

response 65972

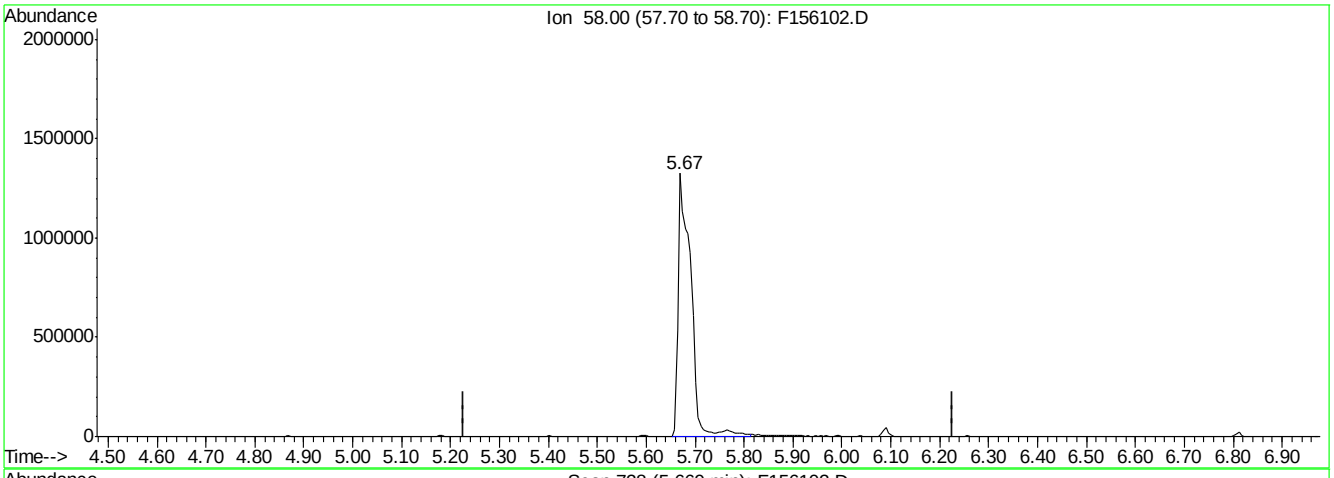
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

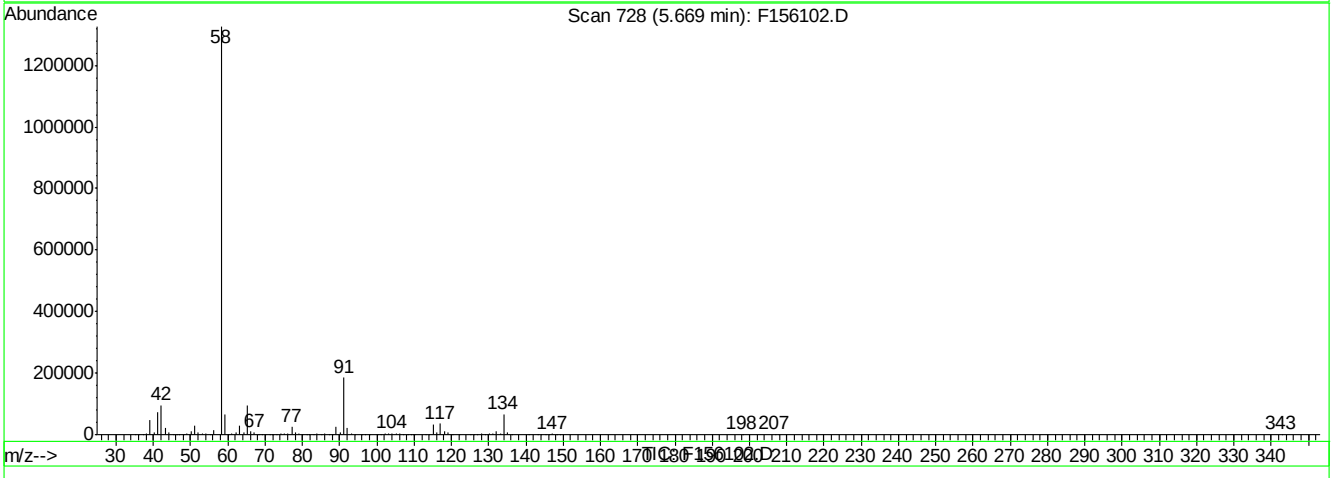
F156102.D MF6563AP9.M Fri Apr 08 16:50:48 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.67min 49.75ppm m

response 2390261

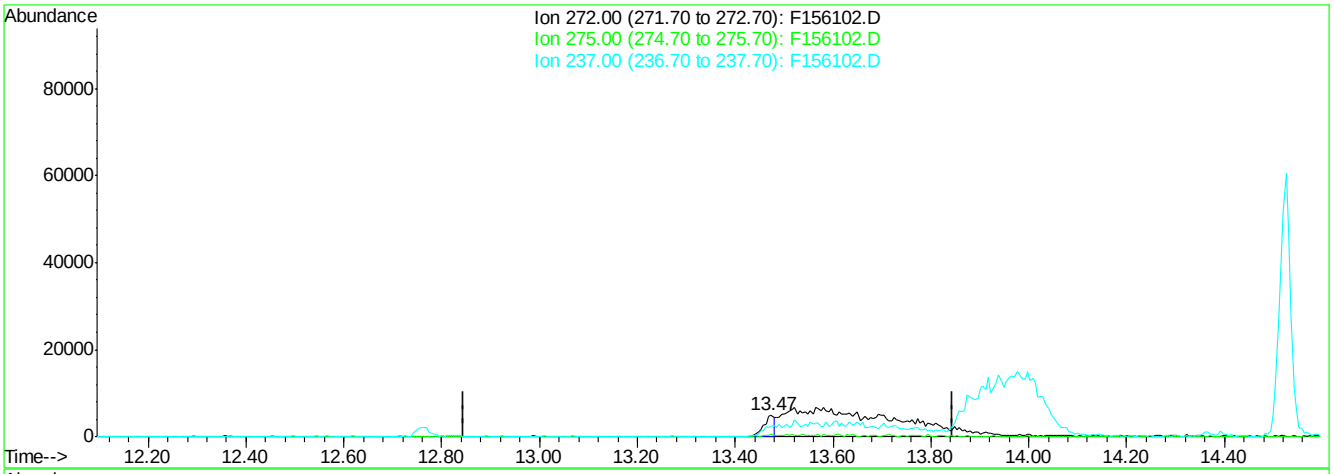
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

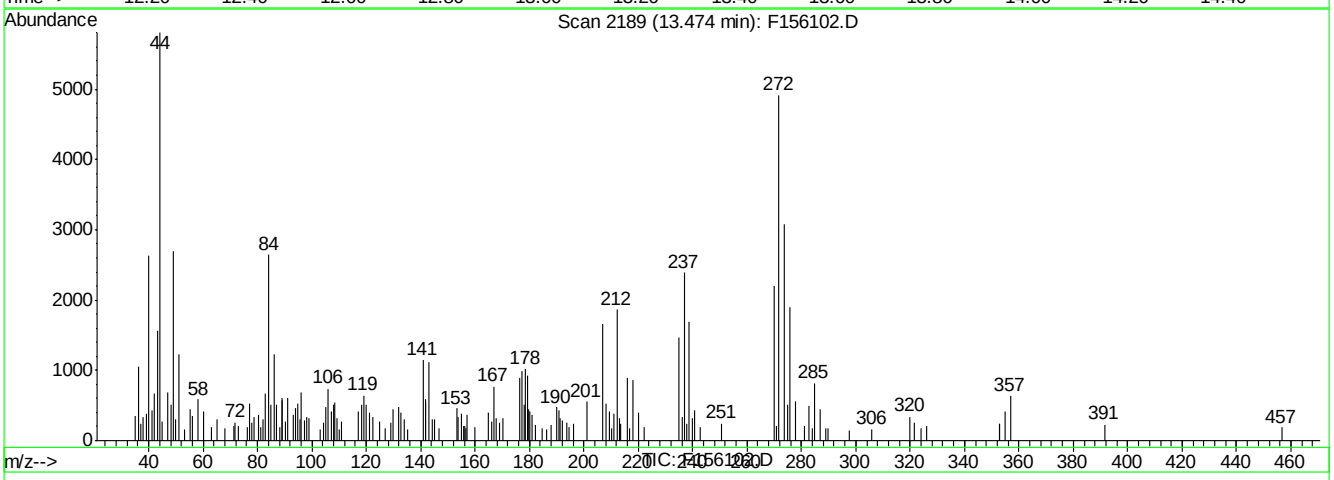
F156102.D MF6563AP9.M Fri Apr 08 16:51:00 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Multiple Level Calibration





(150) Kepone (t)

13.47min 2.69ppm

response 7311

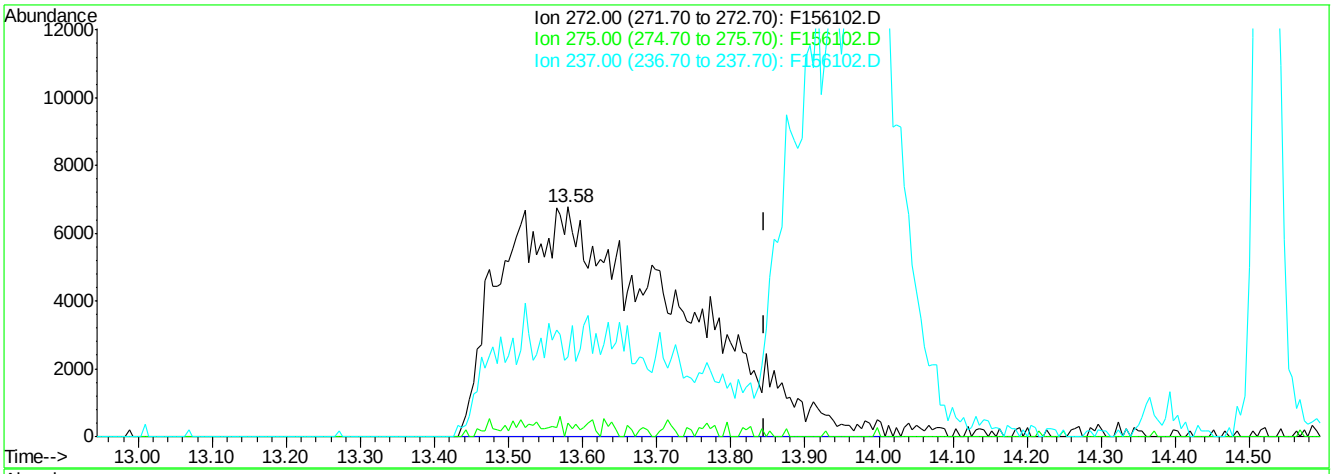
Ion	Exp%	Act%
272.00	100	100
275.00	5.40	14.59
237.00	52.60	39.54
0.00	0.00	0.00

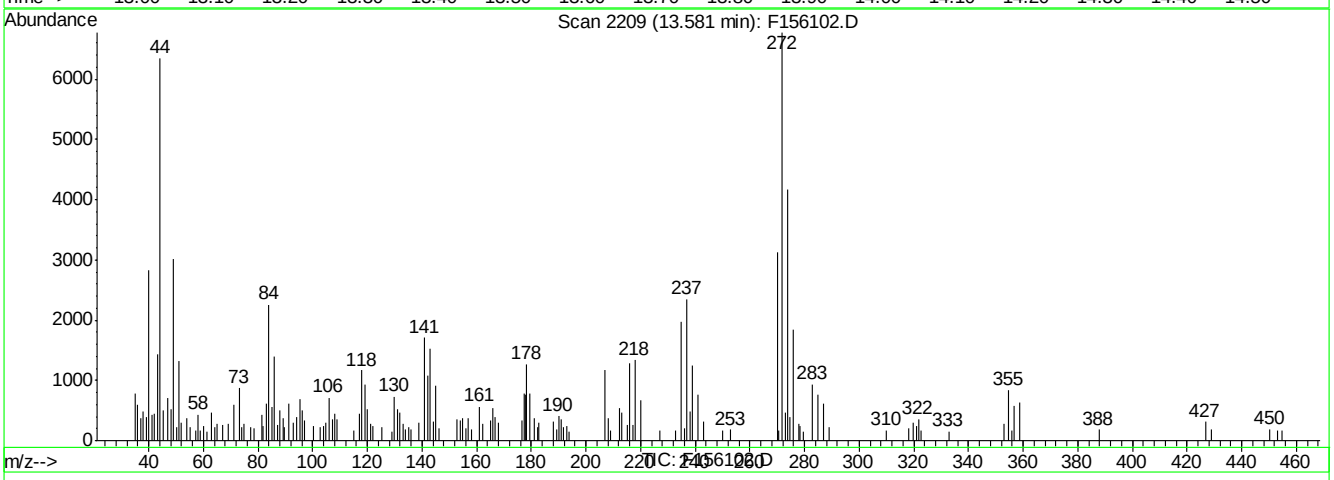
F156102.D MF6563AP9.M Fri Apr 08 16:53:37 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Multiple Level Calibration





(150) Kepone (t)

13.58min 41.38ppm m

response 112333

Ion	Exp%	Act%
272.00	100	100
275.00	5.40	5.86
237.00	52.60	34.66
0.00	0.00	0.00

F156102.D MF6563AP9.M Fri Apr 08 16:53:44 2016 RT1

7.6.109.5

7

SGS ACCUTEST JC19423

F156102.D edits: Kepone

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156104.D Vial: 17
Acq On : 6 Apr 2016 1:39 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:55:53 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.87	152	584258	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2277173	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1347272	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2138787	40.00	ppm	0.00
83) Chrysene-d12	14.52	240	1837886	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1687435	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.87	152	584258	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2277173	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1347272	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2138787	40.00	ppm	0.00
147) Chrysene-d12A	14.52	240	1837886	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1687435	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.87	152	584258	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2277173	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1347272	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2138787	40.00	ppm	0.00
167) Chrysene-d12b	14.52	240	1837886	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.87	152	584258	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2277173	40.00	ppm	0.00
176) Chrysene-d12c	14.52	240	1837886	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2277173	40.00	ppm	0.00
180) Chrysene-d12B	14.52	240	1837886	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
158) Hexachlorophene	17.33	196	1075105	385.15	ppm	100

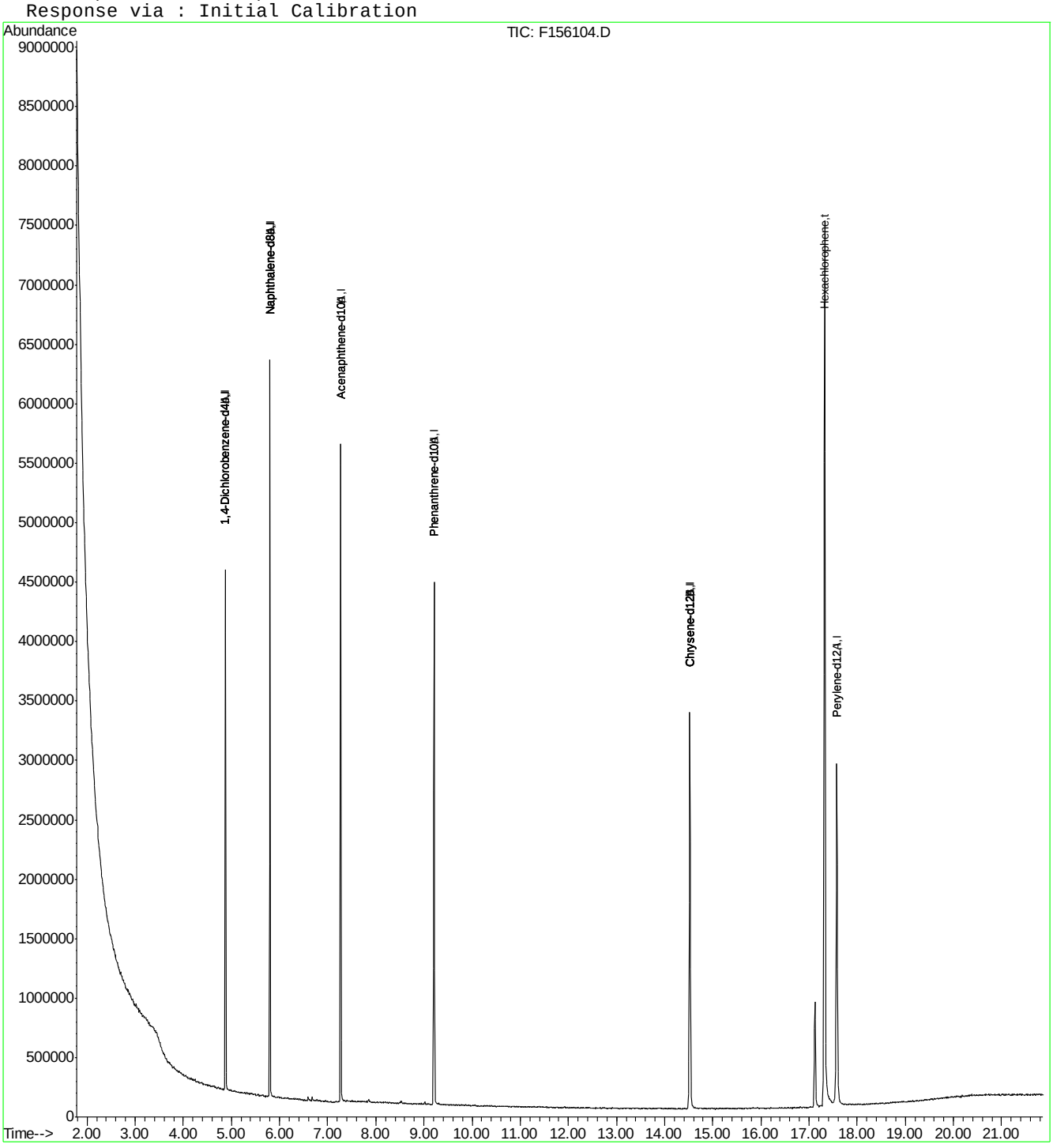
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156104.D Vial: 17
Acq On : 6 Apr 2016 1:39 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 17:28 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156104.D MF6563AP9.M Fri Apr 08 17:28:52 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156105.D Vial: 18
Acq On : 6 Apr 2016 2:08 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 17:02:02 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	816477	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3298259	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1724238	40.00 ppm	0.00
69) Phenanthrene-d10	9.22	188	3117031	40.00 ppm	0.00
83) Chrysene-d12	14.54	240	2809628	40.00 ppm	0.01
92) Perylene-d12	17.58	264	2832445	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	816477	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3298259	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1724238	40.00 ppm	0.00
132) Phenanthrene-d10A	9.22	188	3117031	40.00 ppm	0.00
147) Chrysene-d12A	14.54	240	2809628	40.00 ppm	0.01
155) Perylene-d12A	17.58	264	2832445	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	816477	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3298259	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1724238	40.00 ppm	0.00
165) Phenanthrene-d10b	9.22	188	3117031	40.00 ppm	0.00
167) Chrysene-d12b	14.54	240	2809628	40.00 ppm	0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	816477	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3298259	40.00 ppm	0.00
176) Chrysene-d12c	14.54	240	2809628	40.00 ppm	0.01
178) Naphthalene-d8a	5.80	136	3298259	40.00 ppm	0.01
180) Chrysene-d12B	14.54	240	2809628	40.00 ppm	0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.00	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.00	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.00	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.00	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
127) m-Dinitrobenzene	7.02	168	497233	63.83 ppm	# 79

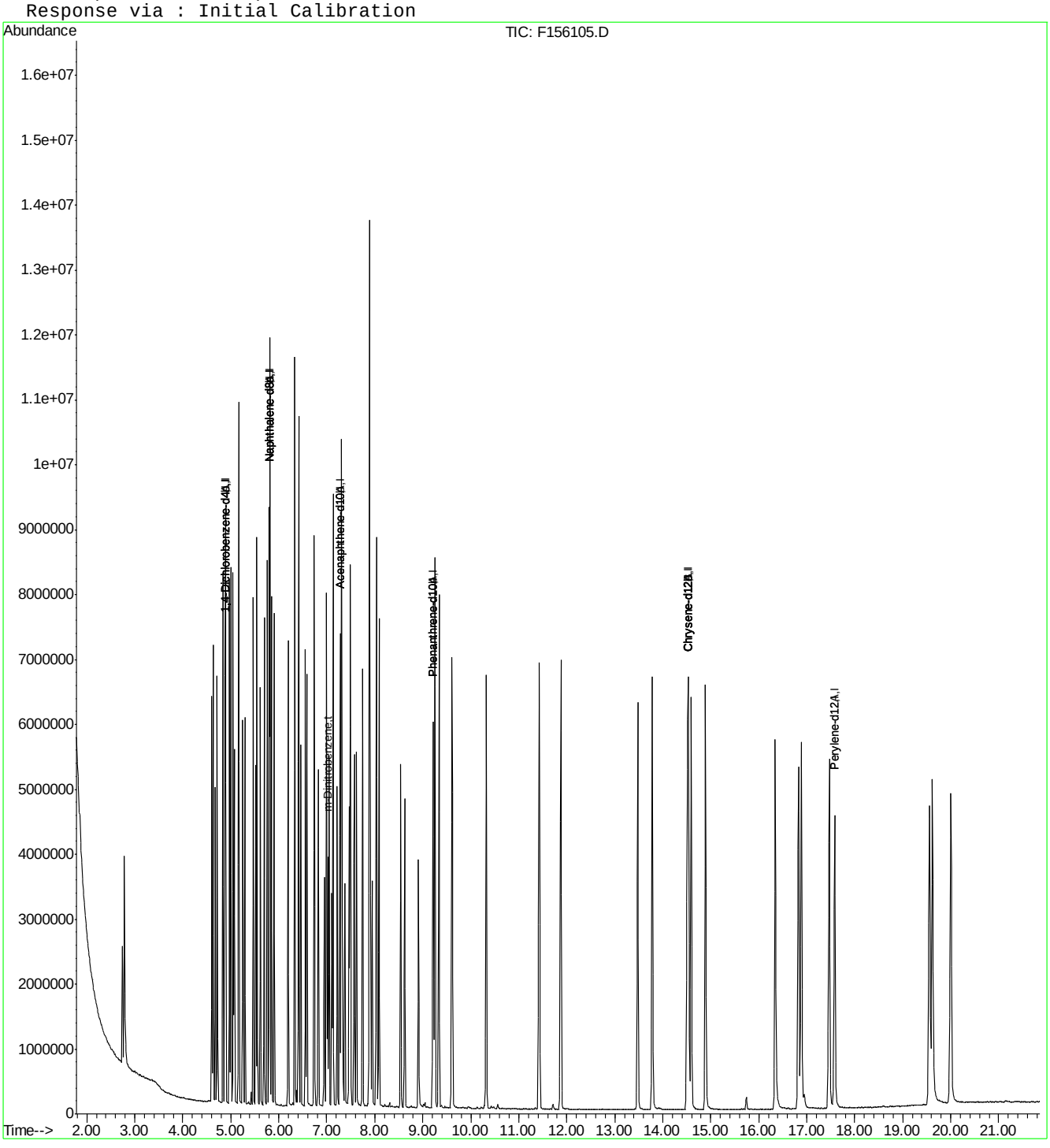
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156105.D Vial: 18
Acq On : 6 Apr 2016 2:08 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 17:03 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156105.D MF6563AP9.M Fri Apr 08 17:29:01 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156106.D Vial: 19
Acq On : 6 Apr 2016 2:38 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:57:10 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	585074	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2228489	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1338443	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2175323	40.00	ppm	0.00
83) Chrysene-d12	14.52	240	1917380	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1712263	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	585074	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2228489	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1338443	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2175323	40.00	ppm	0.00
147) Chrysene-d12A	14.52	240	1917380	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1712263	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	585074	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2228489	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1338443	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2175323	40.00	ppm	0.00
167) Chrysene-d12b	14.52	240	1917112	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	585074	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2228489	40.00	ppm	0.00
176) Chrysene-d12c	14.52	240	1917112	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2228489	40.00	ppm	0.01
180) Chrysene-d12B	14.52	240	1917112	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
129) 1-Naphthylamine	7.57	143	1988980	63.03	ppm	96
130) 2-Naphthylamine	7.66	143	1982031	53.50	ppm	99
146) sym-Trinitrobenzene	8.37	213	162718	40.91	ppm	92

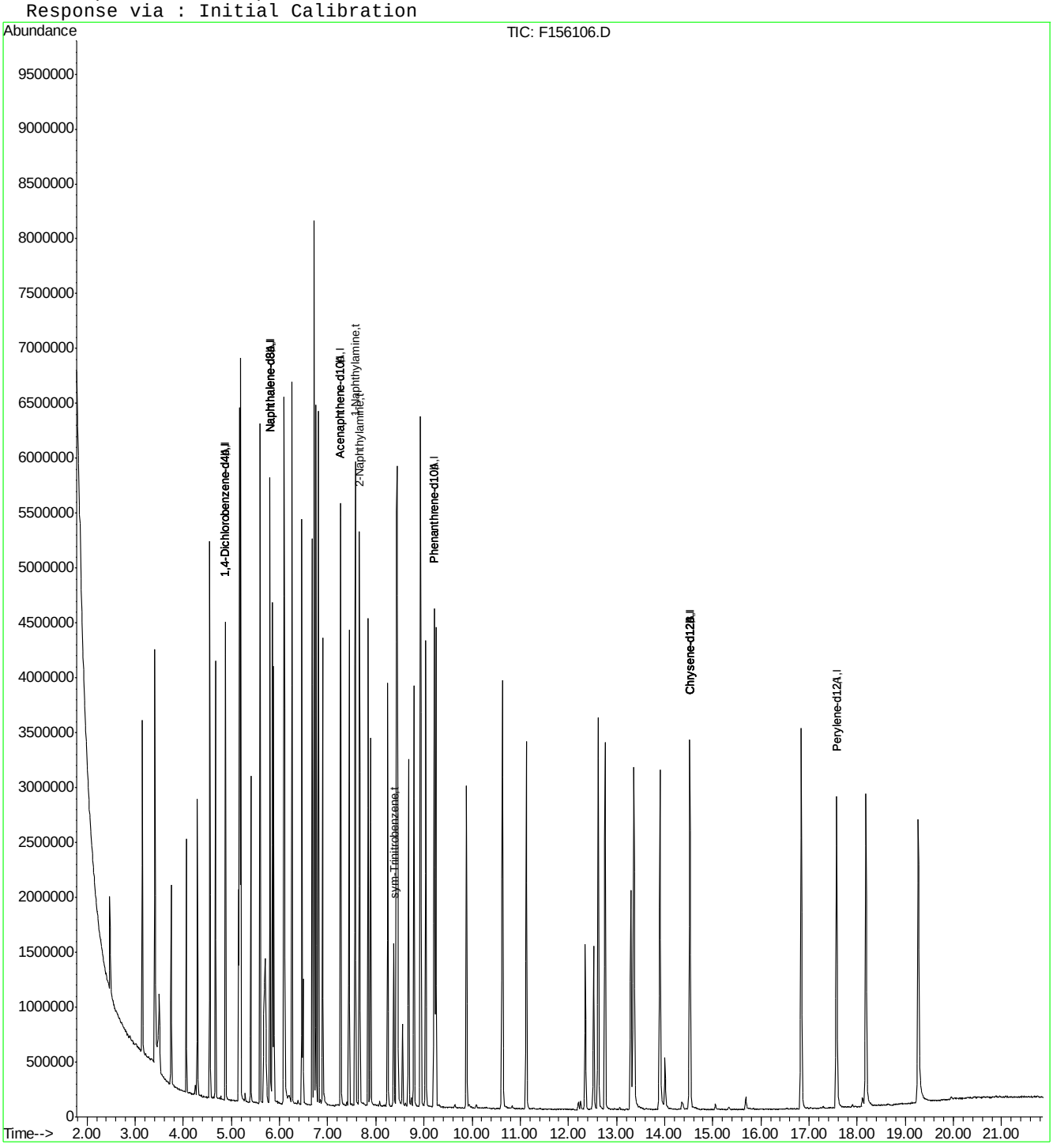
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156106.D Vial: 19
Acq On : 6 Apr 2016 2:38 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 17:06 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156828.D Vial: 2
Acq On : 5 May 2016 10:23 am Operator: linseyk
Sample : cc6563-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 09 09:57:40 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 09:57:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.79	152	755496	40.00	ppm	-0.02
24) Naphthalene-d8	5.71	136	3060478	40.00	ppm	-0.02
47) Acenaphthene-d10	7.15	164	1791739	40.00	ppm	-0.03
69) Phenanthrene-d10	9.06	188	2832628	40.00	ppm	-0.04
83) Chrysene-d12	14.34	240	2634104	40.00	ppm	-0.04
92) Perylene-d12	17.38	264	2423047	40.00	ppm	0.02
102) 1,4-Dichlorobenzene-d4b	4.79	152	755496	40.00	ppm	-0.02
104) Naphthalene-d8b	5.71	136	3060478	40.00	ppm	-0.02
106) Acenaphthene-d10b	7.15	164	1791739	40.00	ppm	-0.03
108) Phenanthrene-d10b	9.06	188	2832628	40.00	ppm	-0.04
110) Chrysene-d12b	14.34	240	2634104	40.00	ppm	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	3.82	112	1275043	47.99	ppm	-0.01
Spiked Amount 50.000			Recovery = 95.98%			
8) Phenol-d5	4.54	99	1697736	52.54	ppm	0.00
Spiked Amount 50.000			Recovery = 105.08%			
25) Nitrobenzene-d5	5.19	82	1617796	56.60	ppm	-0.03
Spiked Amount 50.000			Recovery = 113.20%			
51) 2-Fluorobiphenyl	6.53	172	2735864	47.84	ppm	-0.02
Spiked Amount 50.000			Recovery = 95.68%			
73) 2,4,6-Tribromophenol	8.06	330	343636	59.45	ppm	-0.03
Spiked Amount 50.000			Recovery = 118.90%			
85) Terphenyl-d14	12.12	244	2653418	49.60	ppm	-0.05
Spiked Amount 50.000			Recovery = 99.20%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.37	88	546625	46.73	ppm		96
3) Pyridine	2.68	79	1423970	51.67	ppm		99
4) N-Nitrosodimethylamine	2.65	42	564798	56.96	ppm		96
6) Indene	4.97	116	2372873	53.07	ppm		99
7) Cumene	4.19	105	3377306	56.23	ppm		94
9) Phenol	4.54	94	1931315	56.15	ppm		80
10) Aniline	4.55	93	1695395	45.04	ppm		92
11) bis(2-Chloroethyl)ether	4.60	93	1300066	52.54	ppm		99
12) 2-Chlorophenol	4.64	128	1367694	48.76	ppm		96
13) Decane	4.66	43	1013093	41.98	ppm		88
14) 1,3-Dichlorobenzene	4.74	146	1483471	47.69	ppm		98
15) 1,4-Dichlorobenzene	4.80	146	1522071	49.04	ppm		97
16) Benzyl alcohol	4.89	108	878112	49.09	ppm	#	71
17) 1,2-Dichlorobenzene	4.91	146	1435206	49.19	ppm		98
18) Acetophenone	5.08	105	2004599	59.29	ppm		93
19) 2-Methylphenol	4.98	108	1264084	52.62	ppm		98
20) 2,2'-oxybis(1-Chloropropan	4.99	121	443487	49.72	ppm	#	41
21) 3&4-Methylphenol	5.09	108	1374390	55.78	ppm		100
22) n-Nitroso-di-n-propylamine	5.08	70	1125400	61.65	ppm		93
23) Hexachloroethane	5.16	201	473253	49.23	ppm		95
26) Nitrobenzene	5.21	77	1726315	57.67	ppm		85
27) Quinoline	5.98	129	2686869	45.43	ppm		97
28) Isophorone	5.38	82	2789166	54.56	ppm		97

(#) = qualifier out of range (m) = manual integration
F156828.D MF6563.M Mon May 09 09:58:35 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156828.D Vial: 2
Acq On : 5 May 2016 10:23 am Operator: linseyk
Sample : cc6563-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 09 09:57:40 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 09:57:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29)	2-Nitrophenol	5.44	139	731531	47.11 ppm	#	69
30)	2,4-Dimethylphenol	5.47	107	1354379	55.37 ppm		99
31)	Benzoic acid	5.57	105	1174113	57.41 ppm		95
32)	bis(2-Chloroethoxy)methane	5.53	93	1551570	48.16 ppm		97
33)	2,4-Dichlorophenol	5.62	162	1076938	44.08 ppm		94
34)	2,6-Dichlorophenol	5.77	162	1064364	45.36 ppm		96
35)	1,3,5-Trichlorobenzene	5.44	180	1208730	47.00 ppm		99
36)	1,2,4-Trichlorobenzene	5.67	180	1151682	45.60 ppm		100
37)	1,2,3-Trichlorobenzene	5.83	180	1132127	45.43 ppm		96
38)	Naphthalene	5.73	128	4060318	48.59 ppm		99
39)	4-Chloroaniline	5.76	127	1473055	42.69 ppm		95
40)	2,3-Dichloroaniline	6.46	161	1318187	46.32 ppm		93
41)	Caprolactam	6.04	55	491952	42.37 ppm		86
42)	Hexachlorobutadiene	5.81	225	585943	49.00 ppm		99
43)	4-Chloro-3-methylphenol	6.13	107	1279364	53.39 ppm		98
44)	2-Methylnaphthalene	6.24	141	2238564	47.50 ppm		96
45)	1-Methylnaphthalene	6.32	141	2352505	48.50 ppm		99
46)	Dimethylnaphthalene	6.75	156	2329510	47.40 ppm		98
48)	Hexachlorocyclopentadiene	6.36	237	1441422	118.56 ppm		98
49)	2,4,6-Trichlorophenol	6.46	196	749073	49.27 ppm		97
50)	2,4,5-Trichlorophenol	6.51	196	793994	47.43 ppm		96
52)	2-Chloronaphthalene	6.64	162	2482175	47.94 ppm		95
53)	Biphenyl	6.61	154	3155685	47.47 ppm		100
54)	2-Nitroaniline	6.73	65	925187	63.05 ppm		90
55)	Dimethylphthalate	6.88	163	2866924	49.48 ppm		98
56)	Acenaphthylene	7.02	152	4048809	48.24 ppm		97
57)	2,6-Dinitrotoluene	6.94	165	620189	49.52 ppm		81
58)	3-Nitroaniline	7.11	138	717070	45.74 ppm		77
59)	Acenaphthene	7.19	153	2546139	48.31 ppm		92
60)	2,4-Dinitrophenol	7.22	184	757080	102.65 ppm		87
61)	4-Nitrophenol	7.30	109	473879	64.35 ppm		91
62)	Dibenzofuran	7.37	168	3395420	47.20 ppm		97
63)	2,4-Dinitrotoluene	7.35	165	884340	52.11 ppm		85
64)	2,3,4,6-Tetrachlorophenol	7.50	232	609937	48.32 ppm		89
65)	Diethylphthalate	7.62	149	2875687	50.22 ppm		98
66)	Fluorene	7.76	166	2845665	51.40 ppm		99
67)	4-Chlorophenyl-phenylether	7.75	204	1222561	50.12 ppm		94
68)	4-Nitroaniline	7.79	138	695976	43.96 ppm		97
70)	4,6-Dinitro-2-methylphenol	7.82	198	525802	58.76 ppm		91
71)	n-Nitrosodiphenylamine	7.90	169	1896893	46.79 ppm		99
72)	1,2-Diphenylhydrazine	7.95	77	3427173	61.17 ppm		91
74)	4-Bromophenyl-phenylether	8.39	248	677220	49.70 ppm		91
75)	Hexachlorobenzene	8.47	284	703121	54.06 ppm		95
76)	Pentachlorophenol	8.77	266	996016	116.24 ppm		96
77)	Phenanthrene	9.09	178	4025418	49.40 ppm		98
78)	Anthracene	9.18	178	4041986	49.55 ppm		100
79)	Carbazole	9.46	167	3599242	47.06 ppm		99
80)	Di-n-butylphthalate	10.15	149	4951612	51.84 ppm		98
81)	Fluoranthene	11.25	202	4075136	50.43 ppm		99

(#) = qualifier out of range (m) = manual integration
F156828.D MF6563.M Mon May 09 09:58:35 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156828.D Vial: 2
Acq On : 5 May 2016 10:23 am Operator: linseyk
Sample : cc6563-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 09 09:57:40 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 09:57:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.94	57	1598880	48.22	ppm	88
84)	Pyrene	11.69	202	4258492	45.58	ppm	99
86)	Butylbenzylphthalate	13.29	149	2163968	47.16	ppm	88
87)	Butyl stearate	13.57	56	1051529	42.29	ppm	85
88)	Benzo[a]anthracene	14.32	228	3809605	47.75	ppm	100
89)	3,3'-Dichlorobenzidine	14.36	252	1406009	50.59	ppm	99
90)	Chrysene	14.40	228	3737064	47.12	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.69	149	3003145	47.23	ppm	96
93)	Di-n-octylphthalate	16.14	149	5292753	49.85	ppm	98
94)	Benzo[b]fluoranthene	16.63	252	3895544	52.02	ppm	99
95)	Benzo[k]fluoranthene	16.70	252	3756269	51.25	ppm	100
96)	Benzo[a]pyrene	17.27	252	3456577	50.43	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.33	276	3357071	53.07	ppm	95
98)	Dibenz(a,h)acridine	18.97	279	2937298	54.07	ppm	98
99)	Dibenz[a,h]anthracene	19.39	278	3373288	55.12	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.65	256	1749457	59.83	ppm	98
101)	Benzo[g,h,i]perylene	19.76	276	3567691	52.19	ppm	96

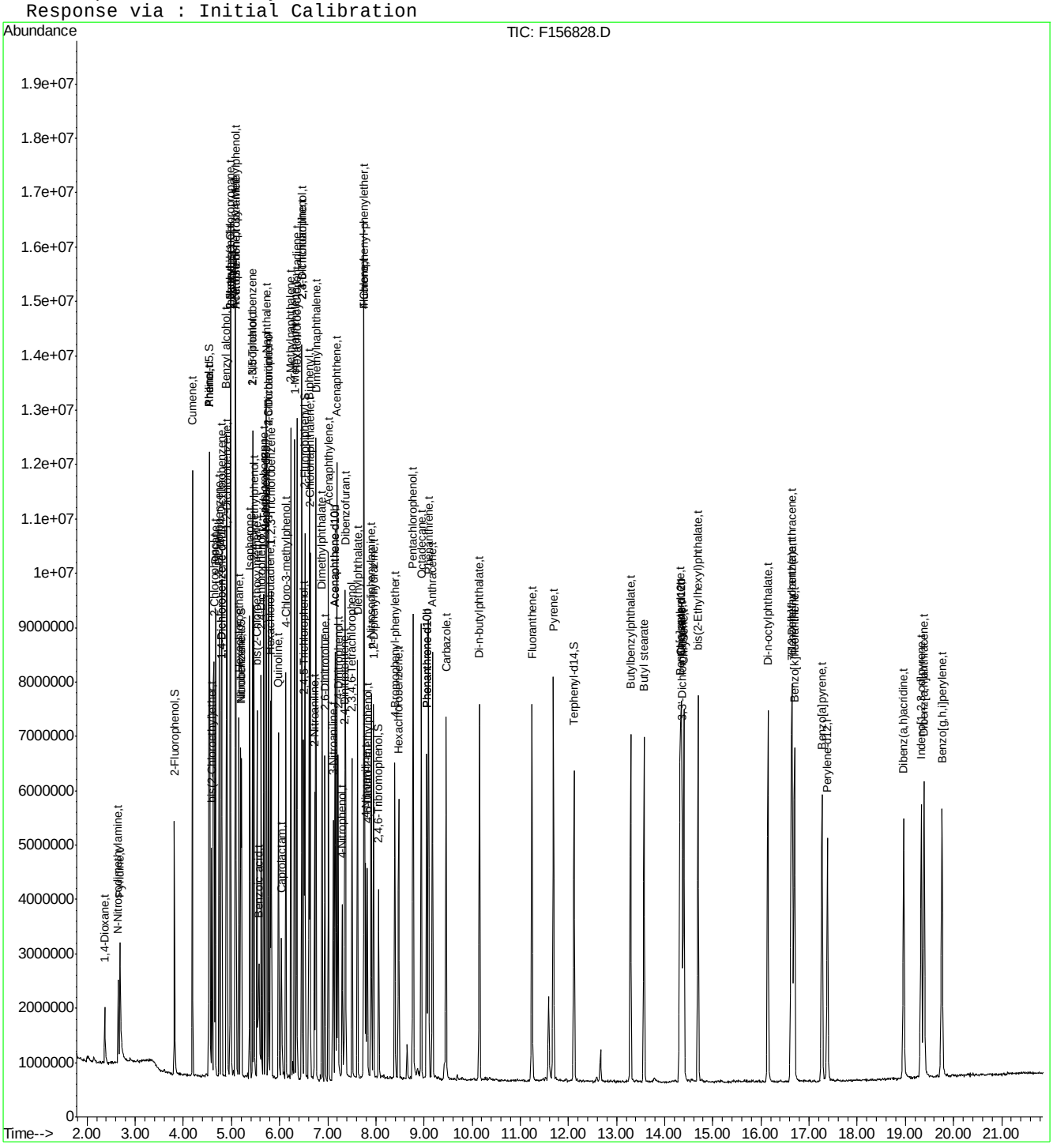
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156828.D Vial: 2
Acq On : 5 May 2016 10:23 am Operator: linseyk
Sample : cc6563-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 9 9:58 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 09:57:38 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156829.D Vial: 3
Acq On : 5 May 2016 10:52 am Operator: linseyk
Sample : cc6564-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 05 11:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu May 05 10:56:04 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.78	152	608240	40.00	ppm	-0.03
24) Naphthalene-d8	5.71	136	2568276	40.00	ppm	-0.03
47) Acenaphthene-d10	7.15	164	1539990	40.00	ppm	-0.03
69) Phenanthrene-d10	9.05	188	2524313	40.00	ppm	-0.04
83) Chrysene-d12	14.33	240	2313540	40.00	ppm	-0.04
92) Perylene-d12	17.38	264	2216290	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.78	152	608240	40.00	ppm	-0.03
104) Naphthalene-d8b	5.71	136	2568276	40.00	ppm	-0.03
106) Acenaphthene-d10b	7.15	164	1539990	40.00	ppm	-0.03
108) Phenanthrene-d10b	9.05	188	2524313	40.00	ppm	-0.04
110) Chrysene-d12b	14.33	240	2313540	40.00	ppm	-0.04

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds						Qvalue
103) Benzaldehyde	4.46	105	815530	47.61	ppm	98
105) Hydroquinone	6.01	110	1034540	49.36	ppm	99
107) 1,2,4,5-Tetrachlorobenzene	6.36	216	831920	38.83	ppm	96
109) Atrazine	8.65	200	577641	47.61	ppm	98
111) Benzidine	11.59	184	1578368	39.25	ppm	99

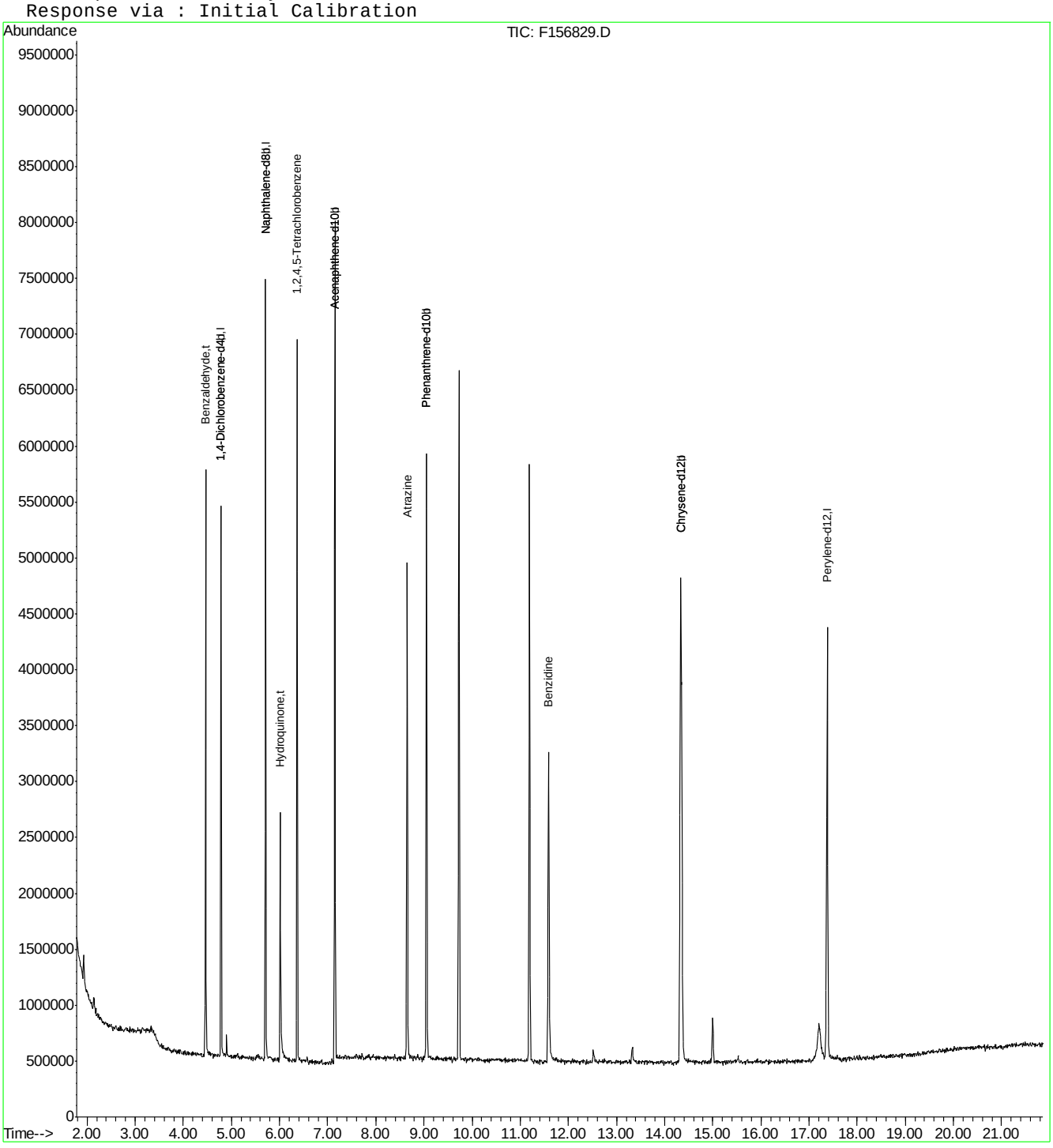
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156829.D MF6563.M Mon May 09 09:58:38 2016 RT1

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156829.D Vial: 3
Acq On : 5 May 2016 10:52 am Operator: linseyk
Sample : cc6564-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 5 11:30 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 09:57:38 2016
Response via : Initial Calibration



F156829.D MF6563.M Mon May 09 09:58:38 2016 RT1 Page 2

SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/09/16 12:57

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 09 10:00:30 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 10:00:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.79	152	621865	40.00	ppm	-0.02
24) Naphthalene-d8	5.71	136	2464103	40.00	ppm	-0.02
47) Acenaphthene-d10	7.15	164	1439453	40.00	ppm	-0.03
69) Phenanthrene-d10	9.06	188	2317616	40.00	ppm	-0.05
83) Chrysene-d12	14.33	240	2156391	40.00	ppm	-0.05
92) Perylene-d12	17.38	264	1965115	40.00	ppm	-0.05
102) 1,4-Dichlorobenzene-d4A	4.79	152	621865	40.00	ppm	-0.02
112) Naphthalene-d8A	5.71	136	2464103	40.00	ppm	-0.02
121) Acenaphthene-d10A	7.15	164	1439453	40.00	ppm	-0.03
132) Phenanthrene-d10A	9.06	188	2317616	40.00	ppm	-0.04
147) Chrysene-d12A	14.33	240	2156391	40.00	ppm	-0.05
155) Perylene-d12A	17.38	264	1965115	40.00	ppm	-0.05
159) 1,4-Dichlorobenzene-d4b	4.79	152	621865	40.00	ppm	-0.02
161) Naphthalene-d8b	5.71	136	2464103	40.00	ppm	-0.02
163) Acenaphthene-d10b	7.15	164	1439453	40.00	ppm	-0.03
165) Phenanthrene-d10b	9.06	188	2317616	40.00	ppm	-0.04
167) Chrysene-d12b	14.33	240	2156391	40.00	ppm	-0.05
169) 1,4-Dichlorobenzene-d4c	4.79	152	621865	40.00	ppm	-0.02
171) Naphthalene-d8c	5.71	136	2464103	40.00	ppm	-0.02
176) Chrysene-d12c	14.33	240	2156391	40.00	ppm	-0.05
178) Naphthalene-d8d	5.71	136	2464103	40.00	ppm	-0.02
180) Chrysene-d12B	14.33	240	2156391	40.00	ppm	-0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

							Qvalue
103) 2-Picoline	3.32	93	1151582	44.55	ppm		99
104) Pentachloroethane	4.58	167	398144	46.33	ppm		97
105) Methyl methanesulfonate	3.66	80	684744	52.63	ppm		89
106) N-Nitrosodiethylamine	3.98	102	484910	43.72	ppm		95
107) N-Nitrosomethylethylamine	3.41	42	460585	47.21	ppm		98
108) Ethyl methanesulfonate	4.21	79	837033	46.06	ppm		93
109) N-Nitrosopyrrolidine	5.08	41	397542m	47.69	ppm		
110) N-Nitrosomorpholine	5.10	56	610519	49.82	ppm		95
111) o-Toluidine	5.11	106	1571321	44.61	ppm	#	42
113) O,O,O-Triethyl phosphoroth	5.51	198	452113	44.83	ppm		83
114) N-Nitrosopiperidine	5.32	42	626146	47.15	ppm		96
115) A,A-Dimethylphenethylamine	5.62	58	1991035m	38.60	ppm		

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 09 10:00:30 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 10:00:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

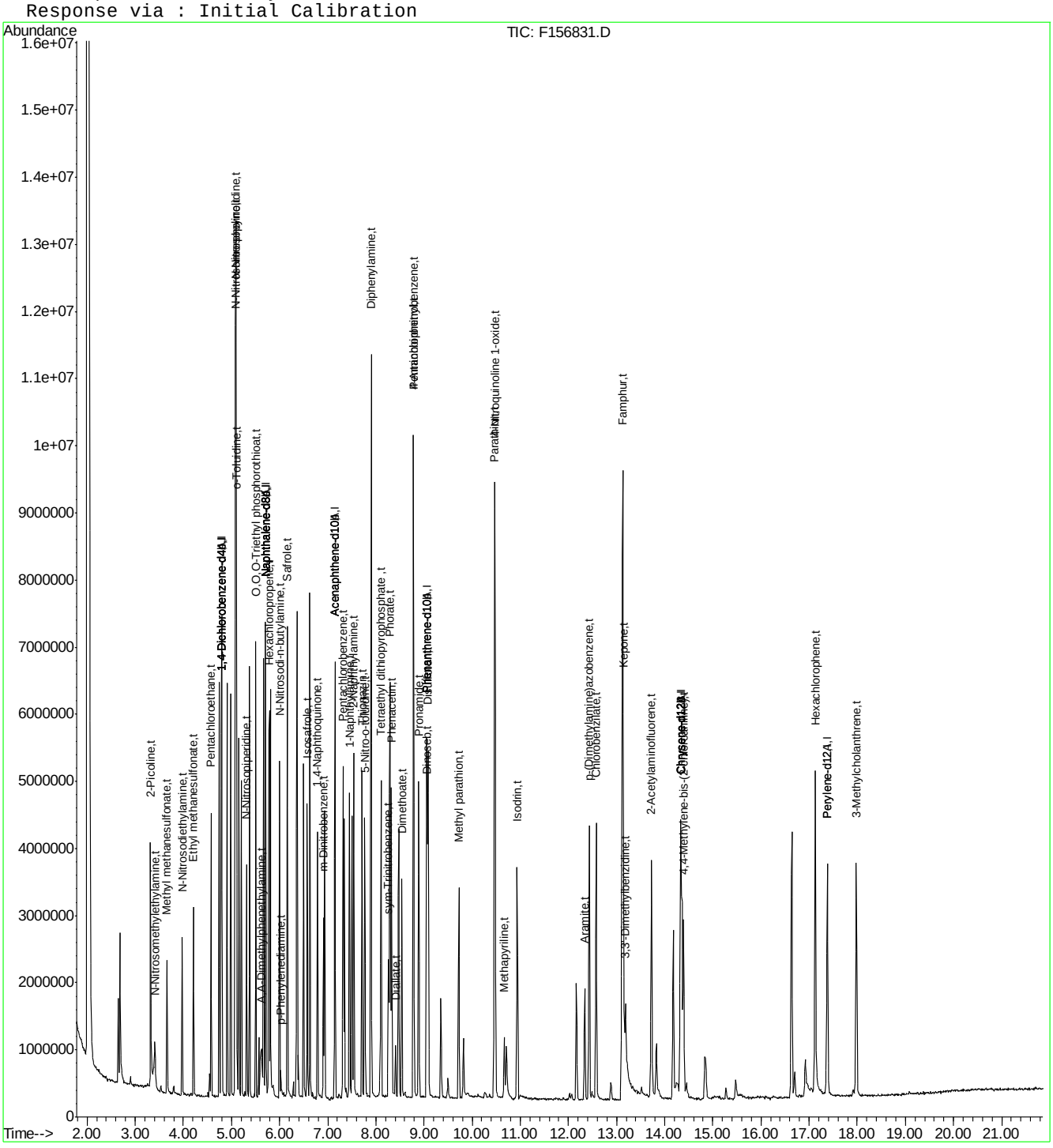
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.79	213	611750	51.71	ppm		97
117)	p-Phenylenediamine	6.02	108	356496m	28.91	ppm		
118)	N-Nitrosodi-n-butylamine	6.00	84	766979	46.41	ppm		98
119)	Safrole	6.16	162	713511	43.17	ppm		89
120)	Isosafrole	6.58	162	561927	75.29	ppm		87
122)	Thionazin	7.71	143	280939	48.07	ppm		97
123)	Tetraethyl dithiopyrophosp	8.11	322	284721	57.12	ppm		100
124)	Phorate	8.30	75	1551787	49.35	ppm		100
125)	Phenacetin	8.32	108	1208375	52.46	ppm		97
126)	1,4-Naphthoquinone	6.79	158	596026	57.97	ppm		84
127)	m-Dinitrobenzene	6.91	168	301740	46.40	ppm		95
128)	Pentachlorobenzene	7.32	250	693083	45.71	ppm		98
129)	1-Naphthylamine	7.45	143	1473264	43.41	ppm		94
130)	2-Naphthylamine	7.54	143	1762561	44.23	ppm		95
131)	5-Nitro-o-toluidine	7.77	152	564523	44.25	ppm		82
133)	Disulfoton	9.09	88	1142019	45.52	ppm		94
134)	Dinoseb	9.07	211	510744	59.92	ppm		99
135)	Dimethoate	8.54	87	842023	46.12	ppm		92
136)	4-Aminobiphenyl	8.78	169	2045947	97.89	ppm		99
137)	Methyl parathion	9.72	125	594398	55.10	ppm		95
138)	Parathion	10.46	109	505696	55.38	ppm		98
139)	Diphenylamine	7.90	169	3078394	45.85	ppm		98
140)	Isodrin	10.94	193	331303	44.97	ppm		99
141)	Diallate	8.41	86	169544	41.30	ppm		93
142)	Pentachloronitrobenzene	8.79	295	199325	109.69	ppm		98
143)	Pronamide	8.89	173	942672	52.47	ppm		98
144)	4-Nitroquinoline 1-oxide	10.48	190	1177422	193.35	ppm		94
145)	Methapyriline	10.66	58	755052m	44.75	ppm		
146)	sym-Trinitrobenzene	8.26	213	236629	55.15	ppm	#	51
148)	Aramite	12.34	185	208675	112.92	ppm		95
149)	p-(Dimethylamine)azobenzen	12.43	120	1060577	52.04	ppm		98
150)	Kepone	13.14	272	659991	194.60	ppm		98
151)	Famphur	13.13	218	3860653	254.22	ppm		99
152)	2-Acetylaminofluorene	13.72	181	1366240	53.53	ppm		98
153)	3,3'-Dimethylbenzidine	13.19	212	452053	21.17	ppm		98
154)	Chlorobenzilate	12.58	251	821500	50.71	ppm		98
156)	4,4-Methylene-bis-(2-chlor	14.39	266	249578	40.87	ppm		84
157)	3-Methylcholanthrene	17.98	268	1305140	50.29	ppm		99
158)	Hexachlorophene	17.13	196	615854	242.69	ppm		95

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 9 10:02 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 10:00:27 2016
Response via : Initial Calibration



F156831.D MF6563AP9.M Mon May 09 10:02:49 2016 RT1 Page 3

SGS ACCUTEST JC19423

Manual Integration Approval Summary

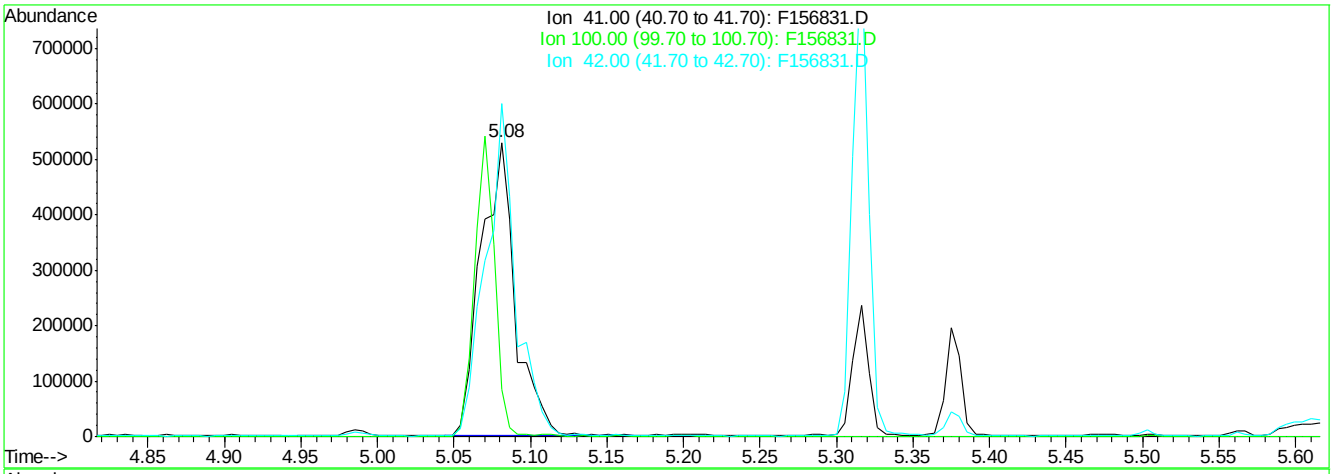
Sample Number:	EF6603-CC6566	**Method:**	SW846 8270D
Lab FileID:	F156831.D	**Analyst approved:**	05/09/16 11:40 Linsey Kirschmann
Injection Time:	05/05/16 12:01	**Supervisor approved:**	05/09/16 12:57 Nina Pandya

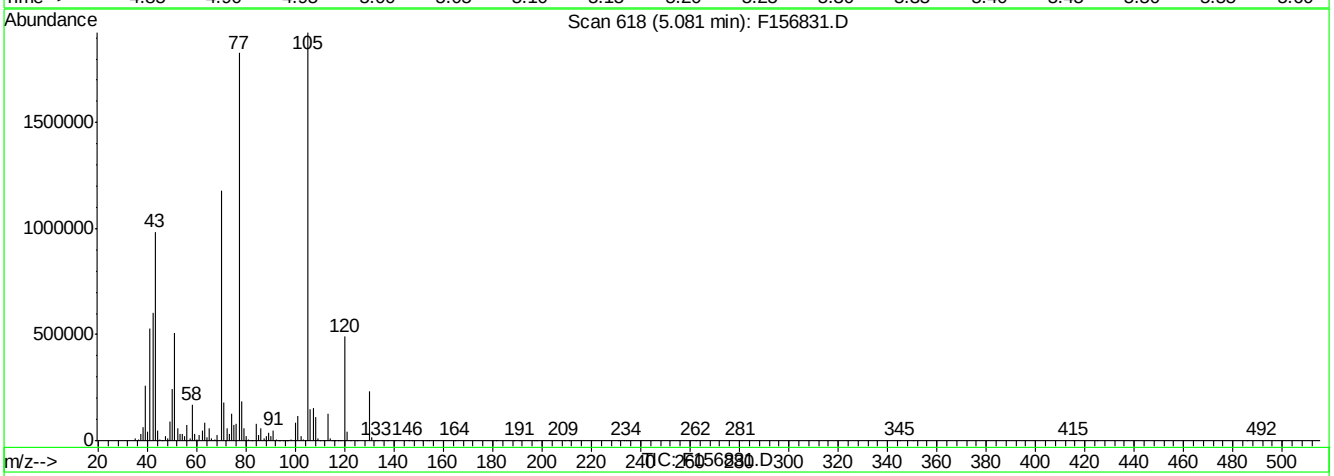
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.08	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.62	Poor instrument integration
p-Phenylenediamine	106-50-3		6.02	Poor instrument integration
Methapyrilene	91-80-5		10.66	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 5 12:25 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 26 12:25:11 2016
Response via : Multiple Level Calibration





(109) N-Nitrosopyrrolidine (t)

5.08min 99.92ppm

response 833009

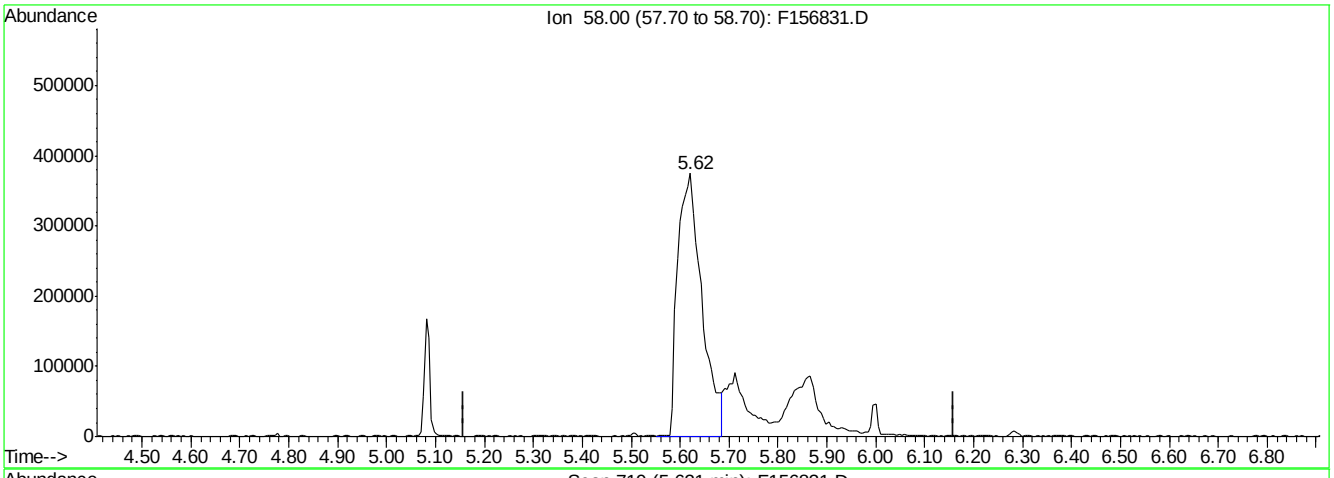
Ion	Exp%	Act%
41.00	100	100
100.00	171.00	15.90#
42.00	64.40	113.20#
0.00	0.00	0.00

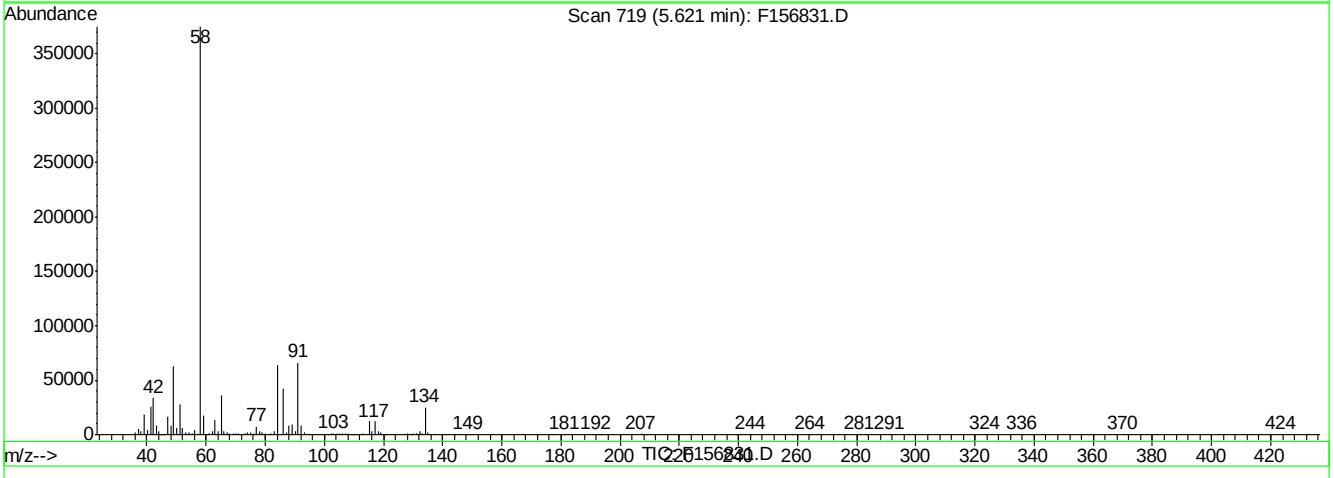
F156831.D MF6563AP9.M Thu May 05 12:25:53 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 5 12:26 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 26 12:25:11 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.62min 24.79ppm

response 1278580

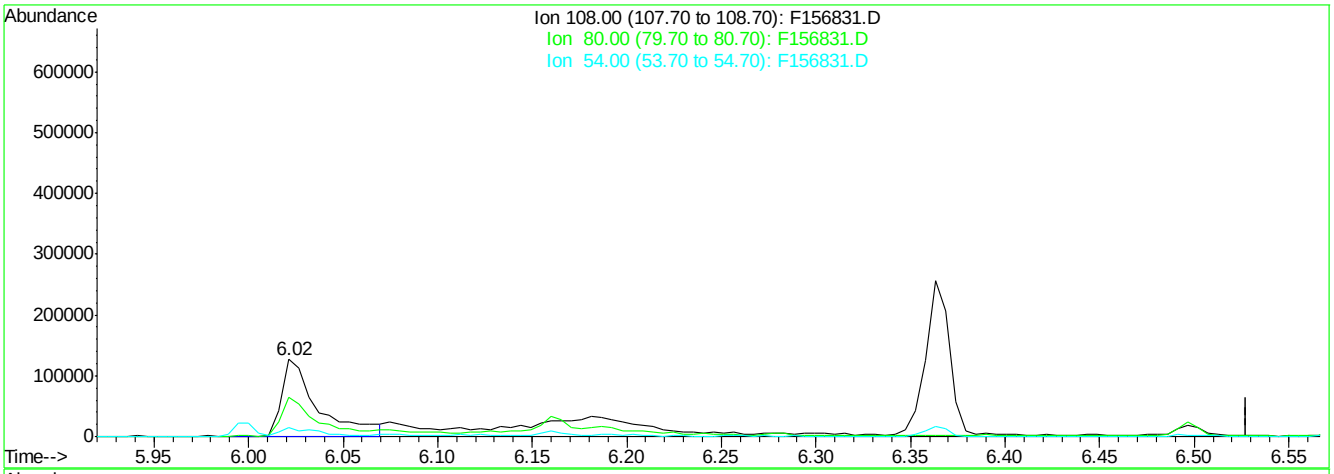
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

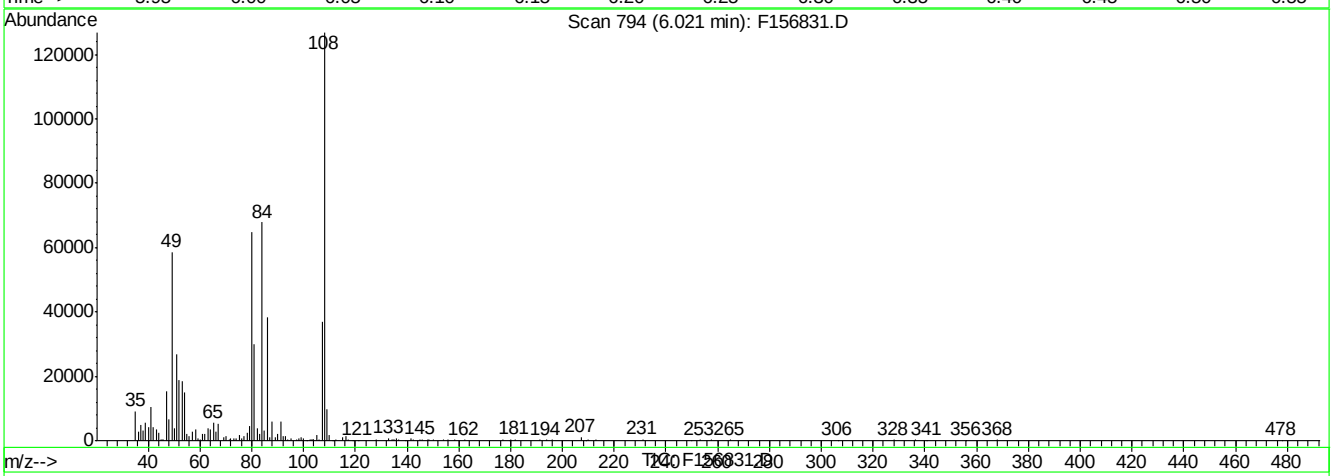
F156831.D MF6563AP9.M Thu May 05 12:26:10 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 5 12:26 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 26 12:25:11 2016
Response via : Multiple Level Calibration





(117) p-Phenylenediamine (t)

6.02min 13.68ppm

response 168696

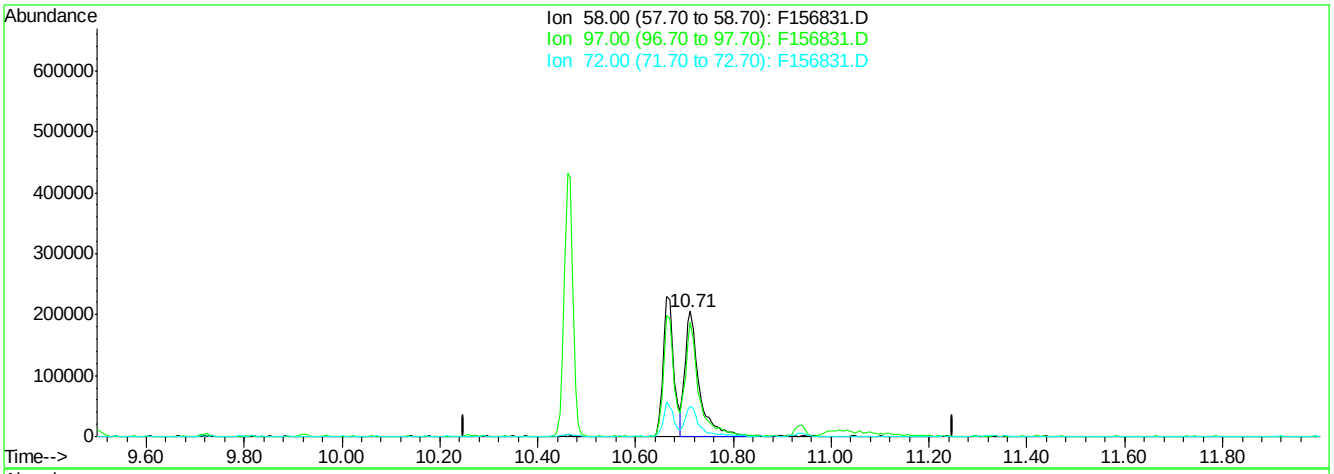
Ion	Exp%	Act%
108.00	100	100
80.00	46.00	50.19
54.00	14.50	9.68
0.00	0.00	0.00

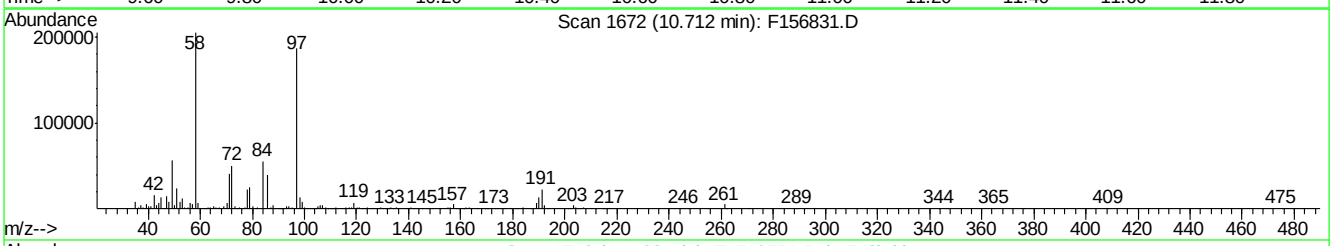
F156831.D MF6563AP9.M Thu May 05 12:26:19 2016 RT1

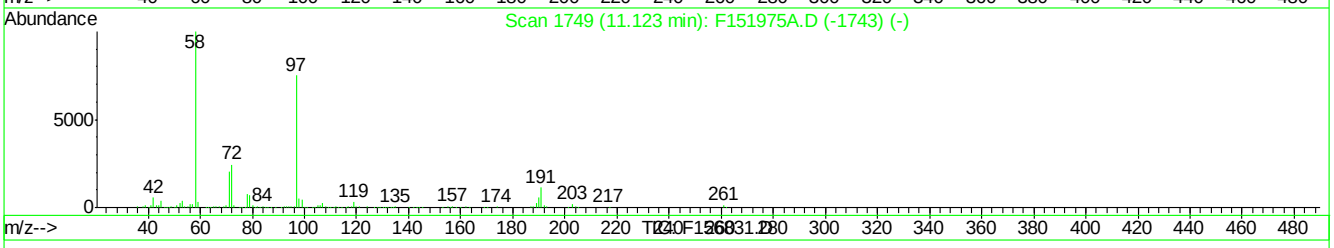
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 5 12:26 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 26 12:25:11 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

10.71min 20.73ppm

response 407842

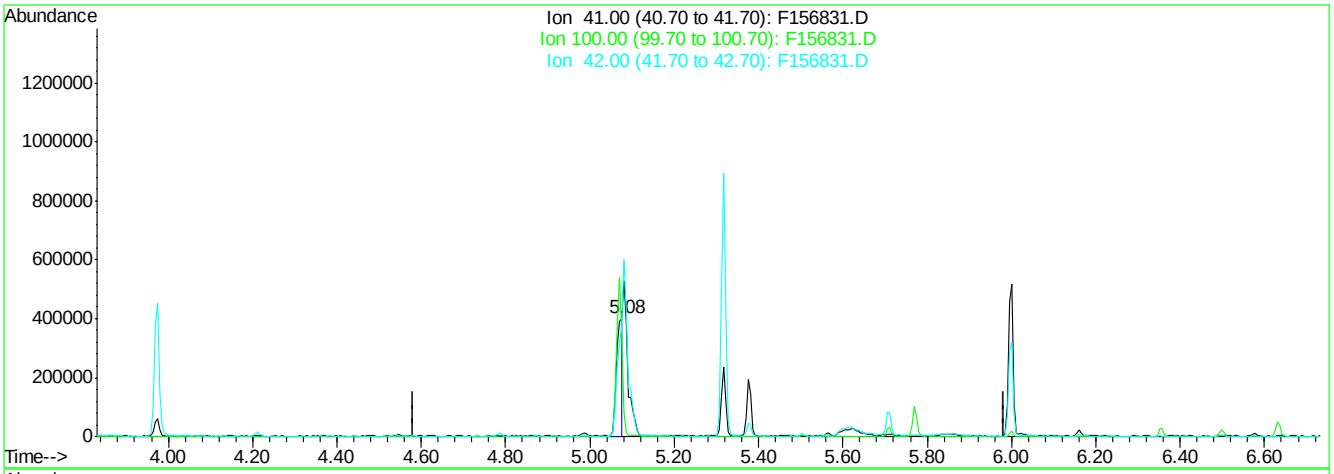
Ion	Exp%	Act%
58.00	100	100
97.00	80.30	90.58
72.00	25.90	24.02
0.00	0.00	0.00

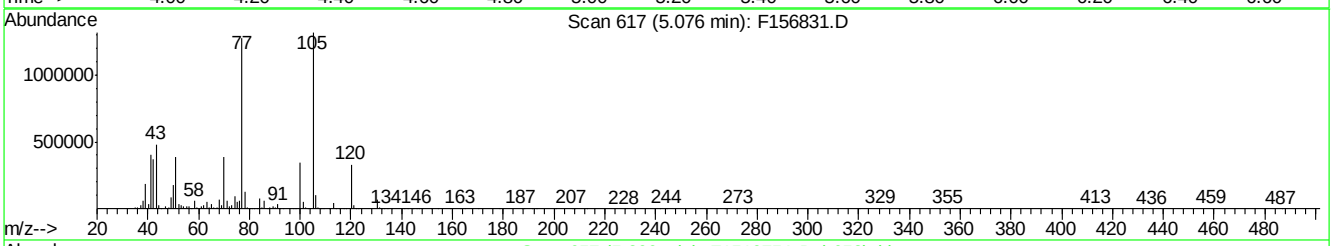
F156831.D MF6563AP9.M Thu May 05 12:26:46 2016 RT1

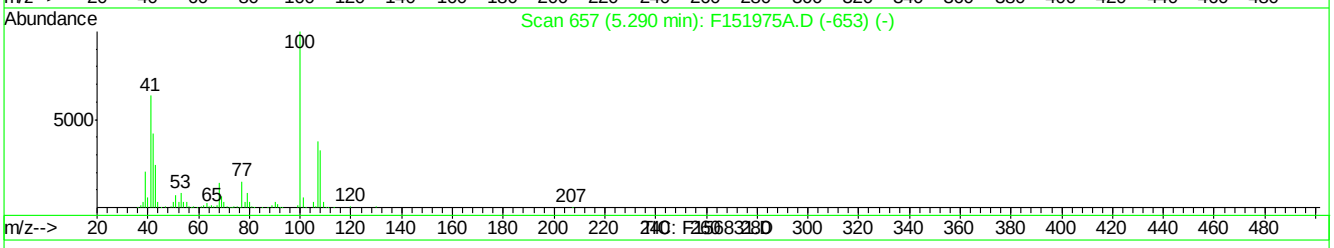
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 9 10:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 10:00:27 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.08min 47.69ppm m

response 397542

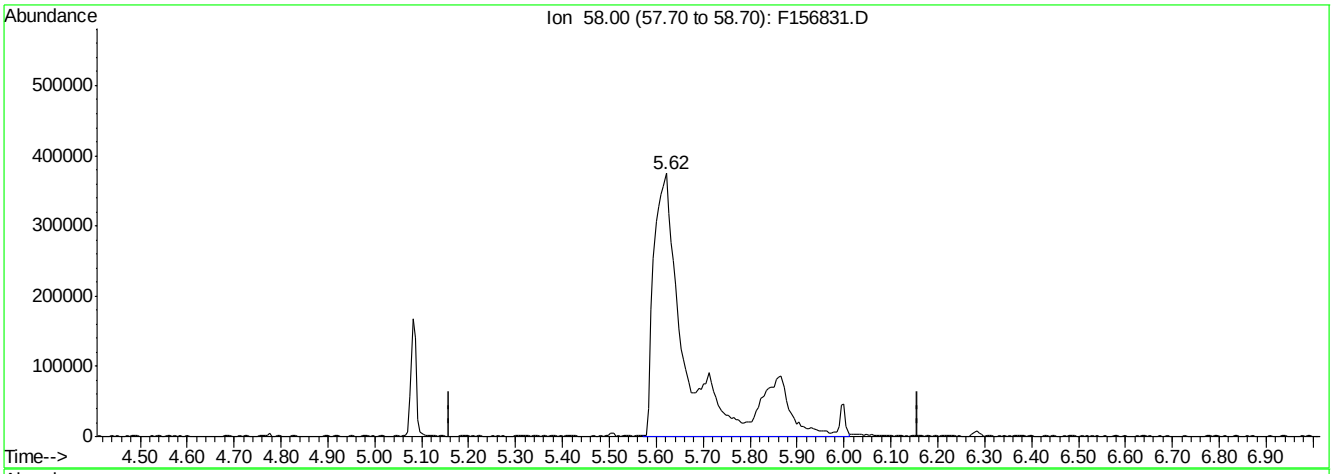
Ion	Exp%	Act%
41.00	100	100
100.00	171.00	86.29#
42.00	64.40	92.89
0.00	0.00	0.00

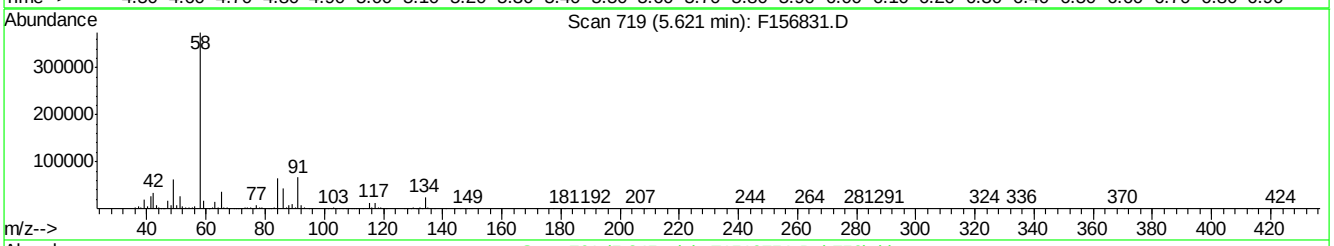
F156831.D MF6563AP9.M Mon May 09 10:01:23 2016 RT1

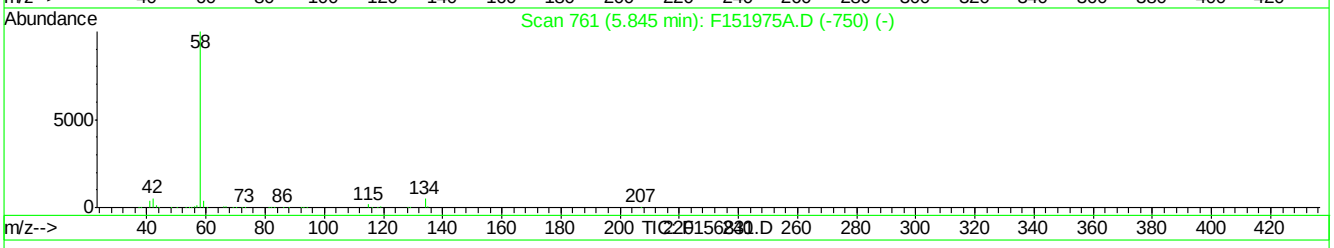
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 9 10:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 10:00:27 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.62min 38.60ppm m

response 1991035

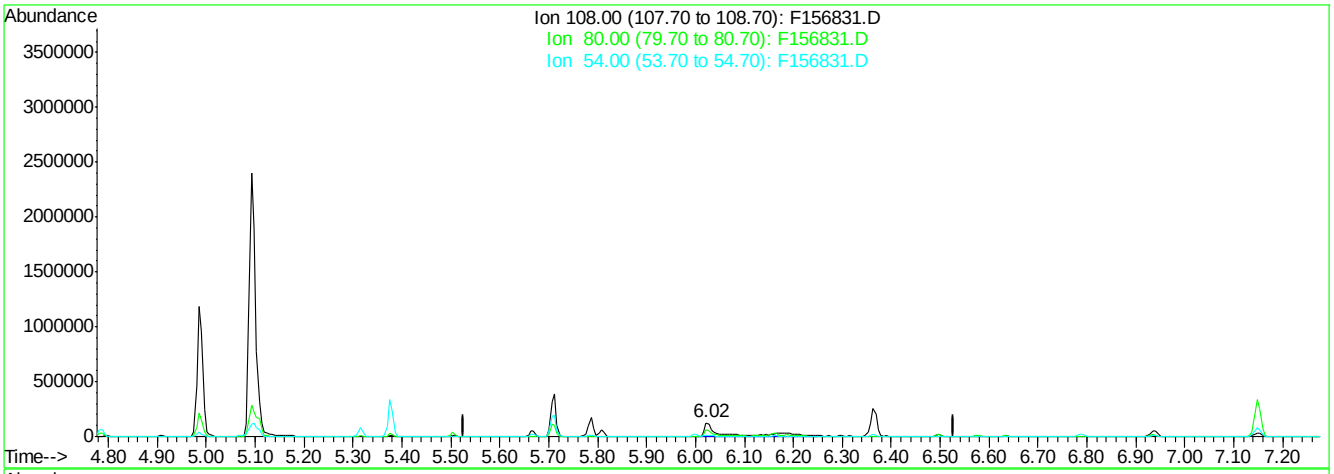
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

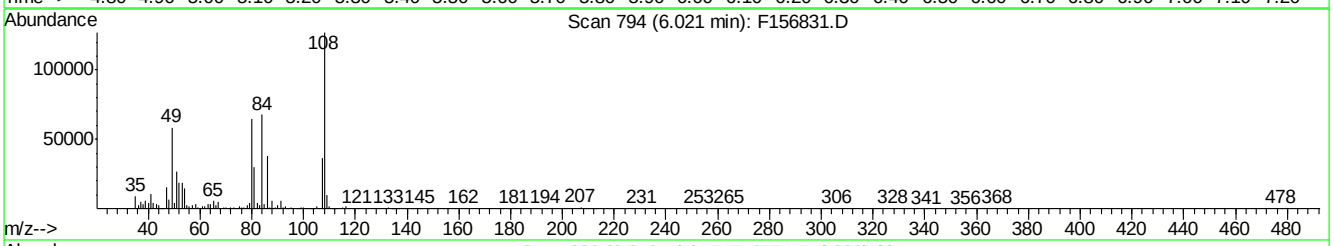
F156831.D MF6563AP9.M Mon May 09 10:01:36 2016 RT1

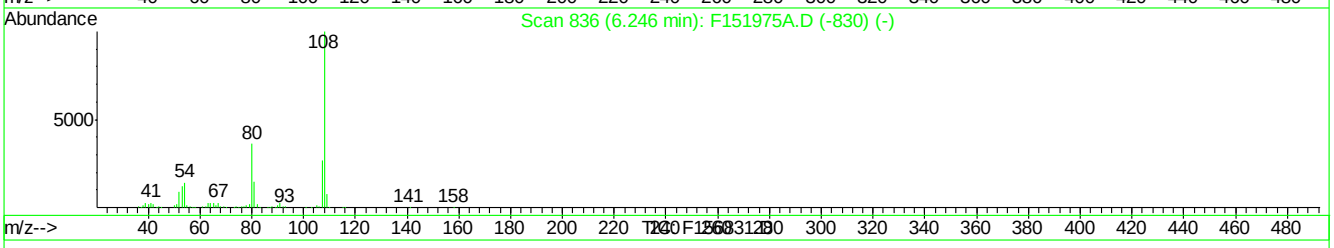
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 9 10:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 10:00:27 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.02min 28.91ppm m

response 356496

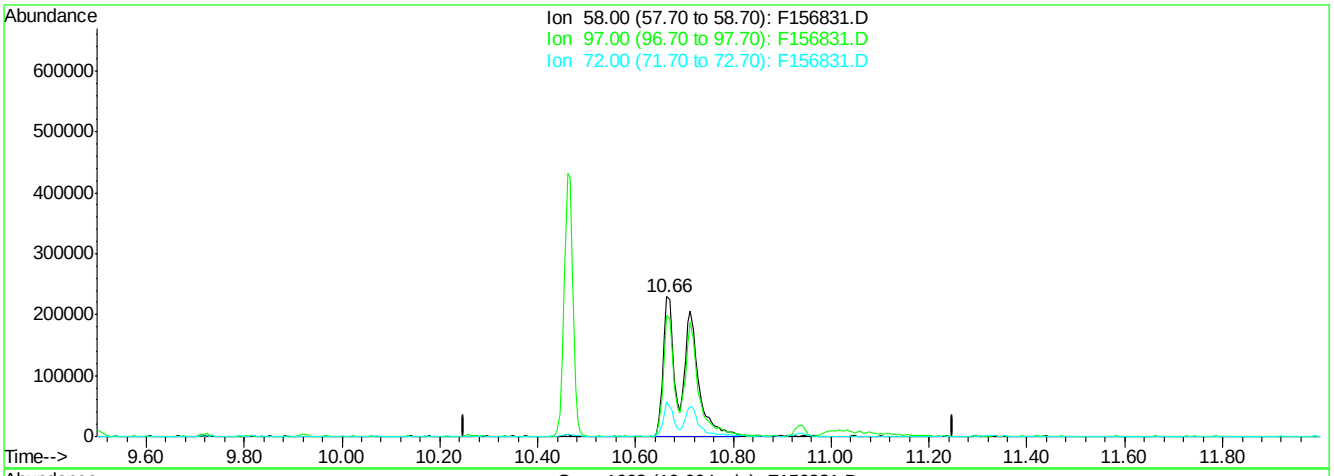
Ion	Exp%	Act%
108.00	100	100
80.00	46.00	51.22
54.00	14.50	11.74
0.00	0.00	0.00

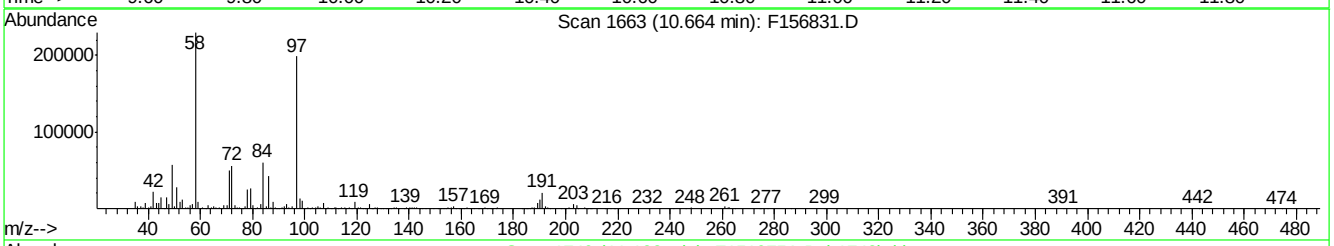
F156831.D MF6563AP9.M Mon May 09 10:01:43 2016 RT1

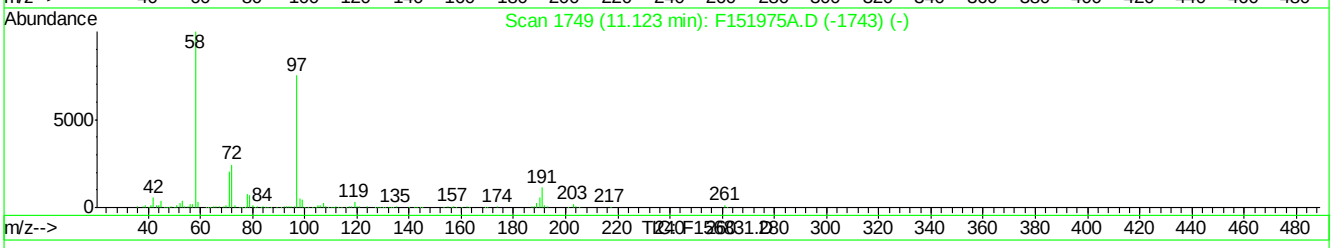
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6603\F156831.D Vial: 5
Acq On : 5 May 2016 12:01 pm Operator: linseyk
Sample : cc6566-50 Inst : MSF
Misc : op90244,ef6603 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 9 10:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 10:00:27 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

10.66min 44.75ppm m

response 755052

Ion	Exp%	Act%
58.00	100	100
97.00	80.30	86.40
72.00	25.90	24.55
0.00	0.00	0.00

F156831.D MF6563AP9.M Mon May 09 10:02:01 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/14/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109741.D
Acq On : 13 Apr 2016 9:35 pm
Operator : sarad
Sample : ic5485-2
Misc : op92825,ez5485
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 08:37:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:35:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.333	152	286261	40.00	ppm	0.00
24) Naphthalene-d8	5.257	136	1144798	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	617652	40.00	ppm	0.00
69) Phenanthrene-d10	8.222	188	975213	40.00	ppm	0.00
83) Chrysene-d12	13.217	240	885274	40.00	ppm	0.00
92) Perylene-d12	16.214	264	884518	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.333	152	286261	40.00	ppm	0.00
104) Phenanthrene-d10a	8.222	188	975213	40.00	ppm	0.00
108) Chrysene-d12a	13.217	240	885274	40.00	ppm	0.00
110) Acenaphthene-d10a	6.555	164	617652	40.00	ppm	0.00
112) Naphthalene-d8a	5.257	136	1144798	40.00	ppm	0.00
114) Chrysene-d12b	13.217	240	885274	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.414	112	21197	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
8) Phenol-d5	4.162	99	24198	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
25) Nitrobenzene-d5	4.755	82	20232	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
51) 2-Fluorobiphenyl	6.021	172	42388	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
73) 2,4,6-Tribromophenol	7.351	330	6212	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
86) Terphenyl-d14	11.064	244	42565	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
105) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.811	88	10640m	2.89	ppm	
4) N-Nitrosodimethylamine	2.169	74	14977	2.00	ppm	100
6) Indene	4.520	116	41978	2.00	ppm	100
7) Cumene	3.719	105	48964	2.00	ppm	100
9) Phenol	4.167	94	25718	2.00	ppm	100
10) Aniline	4.125	93	30934	2.00	ppm	100
11) bis(2-Chloroethyl)ether	4.151	93	17569	2.00	ppm	100
12) 2-Chlorophenol	4.210	128	25488	2.00	ppm	100
13) Decane	4.194	43	22450	2.01	ppm	99
14) 1,3-Dichlorobenzene	4.290	146	27059	2.00	ppm	100
15) 1,4-Dichlorobenzene	4.344	146	22438	2.00	ppm	100
16) Benzyl alcohol	4.472	108	10226	2.00	ppm	100
17) 1,2-Dichlorobenzene	4.461	146	24838	2.00	ppm	100
18) Acetophenone	4.643	105	29110	2.00	ppm	100
19) 2-Methylphenol	4.584	108	19331	2.03	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.536	121	7208	2.00	ppm	100
21) 3&4-Methylphenol	4.701	108	20762	1.90	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109741.D
Acq On : 13 Apr 2016 9:35 pm
Operator : sarad
Sample : ic5485-2
Misc : op92825,ez5485
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 08:37:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:35:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	4.637	70	15383	2.00	ppm	100
23) Hexachloroethane	4.701	201	6799	2.00	ppm	100
26) Nitrobenzene	4.771	77	22037	2.00	ppm	100
27) Quinoline	5.519	129	47137	2.00	ppm	100
28) Isophorone	4.931	82	34760	2.00	ppm	100
29) 2-Nitrophenol	4.995	139	12532	2.00	ppm	100
30) 2,4-Dimethylphenol	5.059	107	20048	2.00	ppm	100
31) Benzoic Acid	5.150	105	13376	2.00	ppm	100
32) bis(2-Chloroethoxy)met...	5.091	93	21069	2.00	ppm	100
33) 2,4-Dichlorophenol	5.188	162	16347	2.00	ppm	100
34) 2,6-Dichlorophenol	5.337	162	16112	2.00	ppm	100
35) 1,3,5-Trichlorobenzene	4.985	180	19369	2.00	ppm	100
36) 1,2,4-Trichlorobenzene	5.214	180	18522	2.00	ppm	100
37) 1,2,3-Trichlorobenzene	5.375	180	17178	2.00	ppm	100
38) Naphthalene	5.268	128	68942	2.00	ppm	100
39) 4-Chloroaniline	5.343	127	28262	1.96	ppm	99
40) 2,3-Dichloroaniline	5.984	161	22813	2.00	ppm	100
41) Caprolactam	5.583	55	9675	1.72	ppm	90
42) Hexachlorobutadiene	5.353	225	8416	2.00	ppm	100
43) 4-Chloro-3-methylphenol	5.716	107	17465	2.00	ppm	100
44) 2-Methylnaphthalene	5.759	141	36266	2.00	ppm	100
45) 1-Methylnaphthalene	5.829	141	37685	2.00	ppm	100
46) Dimethylnaphthalene	6.208	156	39639	2.00	ppm	100
48) Hexachlorocyclopentadiene	5.866	237	15305	4.00	ppm	100
49) 2,4,6-Trichlorophenol	5.984	196	10613	2.00	ppm	100
50) 2,4,5-Trichlorophenol	6.026	196	13099	2.00	ppm	99
52) 2-Chloronaphthalene	6.106	162	41686	2.00	ppm	100
53) Biphenyl	6.096	154	54722	2.00	ppm	100
54) 2-Nitroaniline	6.224	65	11367	2.00	ppm	100
55) Dimethylphthalate	6.342	163	43560	2.00	ppm	100
56) Acenaphthylene	6.438	152	65346	2.00	ppm	100
57) 2,6-Dinitrotoluene	6.395	165	7690	2.00	ppm	100
58) 3-Nitroaniline	6.571	138	11022	2.00	ppm	100
59) Acenaphthene	6.582	153	40224	2.00	ppm	100
60) 2,4-Dinitrophenol	6.641	184	6002	4.00	ppm	100
61) 4-Nitrophenol	6.806	109	5454	1.68	ppm	95
62) Dibenzofuran	6.742	168	55423	2.00	ppm	100
63) 2,4-Dinitrotoluene	6.753	165	13534	2.00	ppm	100
64) 2,3,4,6-Tetrachlorophenol	6.892	232	9675	2.00	ppm	100
65) Diethylphthalate	6.972	149	45133	2.00	ppm	100
66) Fluorene	7.073	166	45951	2.00	ppm	100
67) 4-Chlorophenyl-phenyle...	7.073	204	19867	2.00	ppm	100
68) 4-Nitroaniline	7.175	138	10404	2.00	ppm	100
70) 4,6-Dinitro-2-methylph...	7.159	198	4297	2.00	ppm	100
71) n-Nitrosodiphenylamine	7.218	169	34126	2.00	ppm	100
72) 1,2-Diphenylhydrazine	7.250	77	36836	1.95	ppm	99
74) 4-Bromophenyl-phenylether	7.629	248	10962	2.00	ppm	100
75) Hexachlorobenzene	7.704	284	11633	2.00	ppm	100
76) Pentachlorophenol	8.014	266	10894	4.00	ppm	100
77) Phenanthrene	8.254	178	59966	2.00	ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109741.D
Acq On : 13 Apr 2016 9:35 pm
Operator : sarad
Sample : ic5485-2
Misc : op92825,ez5485
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 08:37:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:35:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	8.324	178	64540	2.00	ppm	100
79) Carbazole	8.628	167	61115	2.00	ppm	100
80) Di-n-butylphthalate	9.216	149	74944	2.00	ppm	100
81) Fluoranthene	10.236	202	62248	2.00	ppm	100
82) Octadecane	8.072	57	28331	2.00	ppm	100
84) Pyrene	10.658	202	68216	2.00	ppm	100
85) Butyl stearate	12.400	56	17853	2.00	ppm	100
87) Butylbenzylphthalate	12.202	149	29961	2.00	ppm	100
88) Benzo[a]anthracene	13.196	228	57075	2.00	ppm	100
89) 3,3'-Dichlorobenzidine	13.297	252	20108	2.00	ppm	100
90) Chrysene	13.265	228	60233	2.00	ppm	100
91) bis(2-Ethylhexyl)phtha...	13.538	149	42974	2.00	ppm	100
93) Di-n-octylphthalate	14.937	149	70494	2.00	ppm	100
94) Benzo[b]fluoranthene	15.455	252	58924	1.99	ppm	98
95) Benzo[k]fluoranthene	15.509	252	54977	2.00	ppm	100
96) Benzo[a]pyrene	16.086	252	52791	2.00	ppm	100
97) Indeno[1,2,3-cd]pyrene	18.110	276	53287	2.00	ppm	100
98) Dibenz(a,h)acridine	17.758	279	53236	2.00	ppm	100
99) Dibenz[a,h]anthracene	18.169	278	58532	2.02	ppm	98
100) 7,12-Dimethylbenz(a)an...	15.461	256	27728	2.00	ppm	100
101) Benzo[g,h,i]perylene	18.538	276	59171	2.00	ppm	100

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

7.6.116

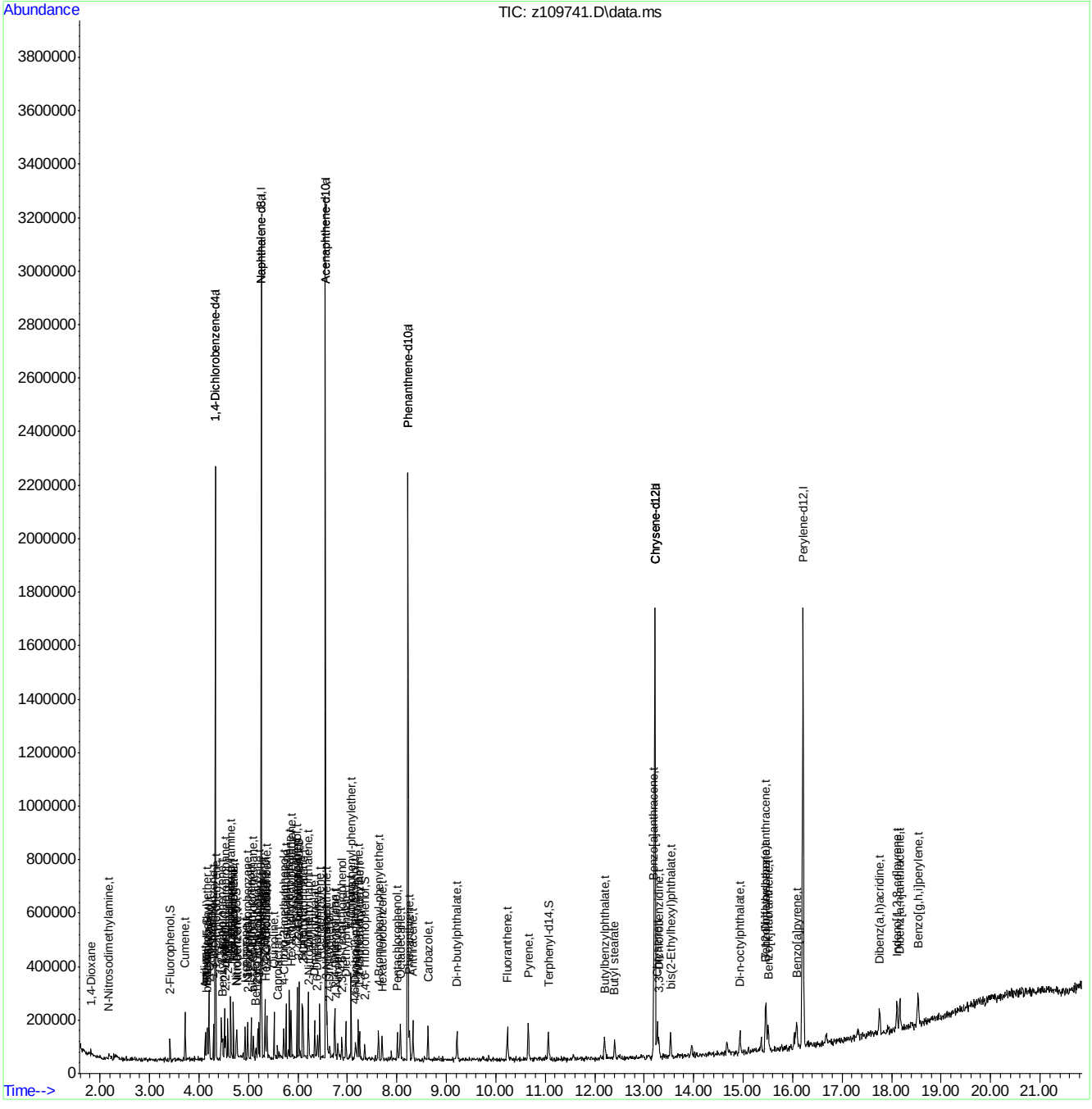
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109741.D
Acq On : 13 Apr 2016 9:35 pm
Operator : sarad
Sample : ic5485-2
Misc : op92825,ez5485
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 08:37:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:35:11 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

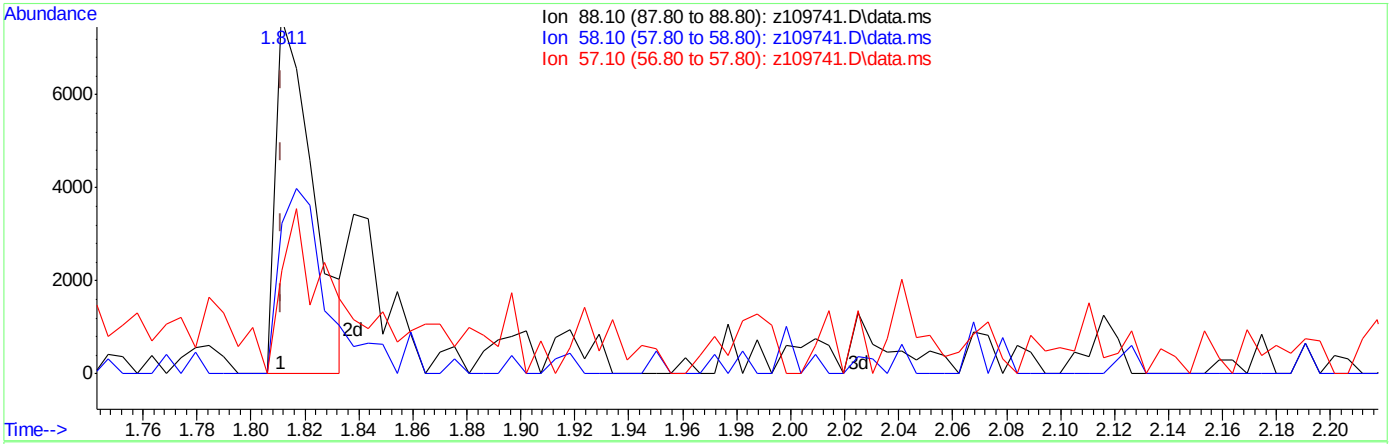
Sample Number:	EZ5485-IC5485	**Method:**	SW846 8270D
Lab FileID:	Z109741.D	**Analyst approved:**	04/14/16 09:34 Arielle Cocozza
Injection Time:	04/13/16 21:35	**Supervisor approved:**	04/14/16 15:48 Nina Pandya

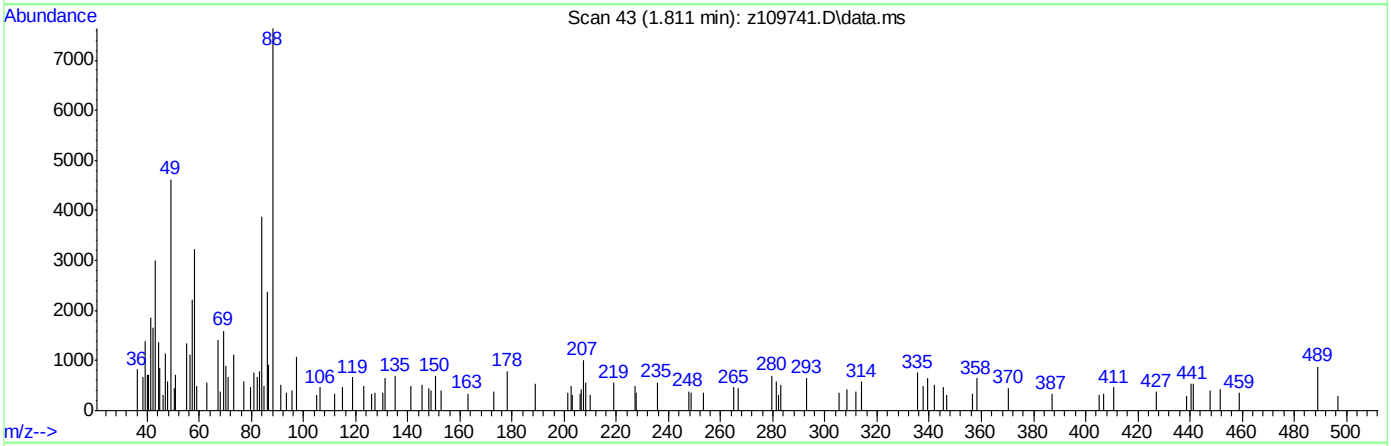
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.81	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109741.D
Acq On : 13 Apr 2016 9:35 pm
Operator : sarad
Sample : ic5485-2
Misc : op92825,ez5485
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 08:35:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:35:11 2016
Response via : Initial Calibration





TIC: z109741.D\data.ms

(2) 1,4-Dioxane

1.811min (0.000) 2.00ppm

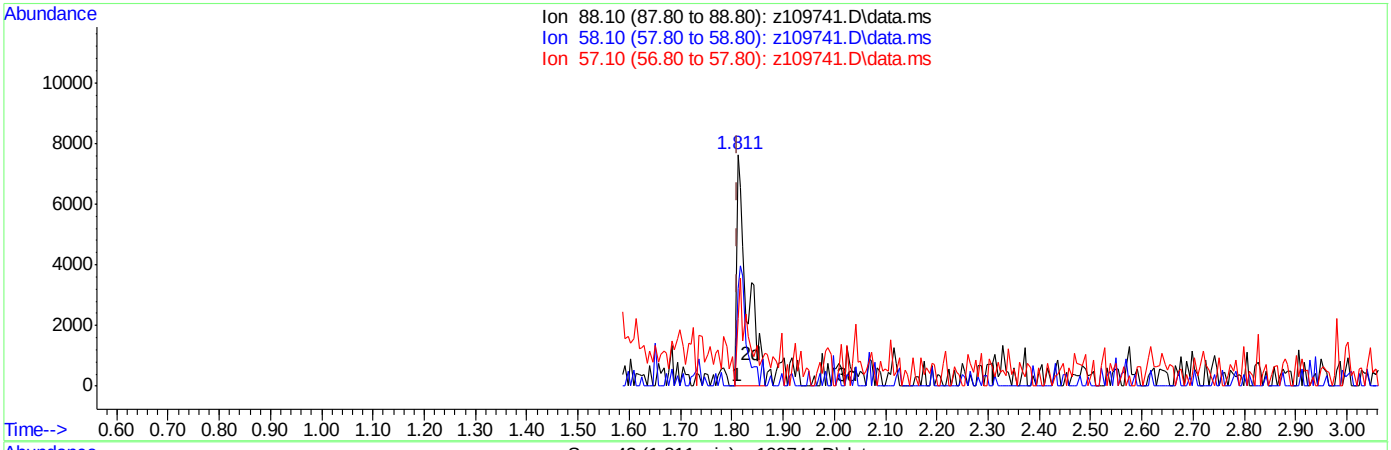
response 7365

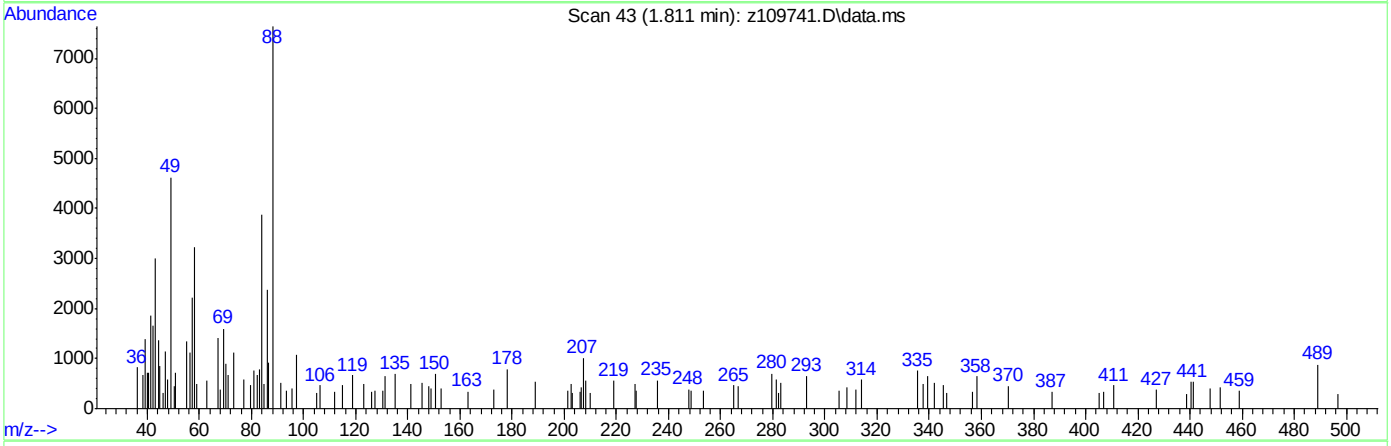
Ion	Exp%	Act%
88.10	100	100
58.10	40.80	40.79
57.10	21.10	21.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109741.D
Acq On : 13 Apr 2016 9:35 pm
Operator : sarad
Sample : ic5485-2
Misc : op92825,ez5485
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 08:37:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:35:11 2016
Response via : Initial Calibration





TIC: z109741.D\data.ms

(2) 1,4-Dioxane

1.811min (0.000) 2.89ppm m

response 10640

Ion	Exp%	Act%
88.10	100	100
58.10	40.80	42.24
57.10	21.10	29.03
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/14/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109742.D
Acq On : 13 Apr 2016 10:06 pm
Operator : sarad
Sample : ic5485-100
Misc : op92825,ez5485
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 08:59:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:57:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.333	152	262993	40.00	ppm	0.00
24) Naphthalene-d8	5.257	136	1012466	40.00	ppm	0.00
47) Acenaphthene-d10	6.561	164	586535	40.00	ppm	0.00
69) Phenanthrene-d10	8.228	188	925949	40.00	ppm	0.00
83) Chrysene-d12	13.233	240	837089	40.00	ppm	0.00
92) Perylene-d12	16.220	264	848153	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.333	152	262993	40.00	ppm	0.00
104) Phenanthrene-d10a	8.228	188	925949	40.00	ppm	0.00
108) Chrysene-d12a	13.233	240	837089	40.00	ppm	0.00
110) Acenaphthene-d10a	6.561	164	586535	40.00	ppm	0.00
112) Naphthalene-d8a	5.257	136	1012466	40.00	ppm	0.00
114) Chrysene-d12b	13.233	240	837089	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.409	112	877711	95.33	ppm	0.00
Spiked Amount 50.000			Recovery	=	190.66%	
8) Phenol-d5	4.162	99	976751	91.18	ppm	0.00
Spiked Amount 50.000			Recovery	=	182.36%	
25) Nitrobenzene-d5	4.760	82	754621	87.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	174.22%	
51) 2-Fluorobiphenyl	6.027	172	1565164	81.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	162.18%	
73) 2,4,6-Tribromophenol	7.362	330	261370	84.99	ppm	0.00
Spiked Amount 50.000			Recovery	=	169.98%	
86) Terphenyl-d14	11.075	244	1627342	88.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	176.16%	
105) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.790	88	360049	89.83	ppm	100
3) Pyridine	2.153	79	778261	86.59	ppm	99
4) N-Nitrosodimethylamine	2.121	74	471376	89.74	ppm	100
6) Indene	4.520	116	1461506	83.10	ppm	100
7) Cumene	3.719	105	1927710	88.83	ppm	100
9) Phenol	4.173	94	972145	87.63	ppm	100
10) Aniline	4.119	93	1097036	85.81	ppm	100
11) bis(2-Chloroethyl)ether	4.151	93	666294	86.34	ppm	100
12) 2-Chlorophenol	4.210	128	850131	79.20	ppm	100
13) Decane	4.200	43	757770	76.29	ppm	100
14) 1,3-Dichlorobenzene	4.290	146	947466	84.70	ppm	100
15) 1,4-Dichlorobenzene	4.344	146	921201	88.96	ppm	100
16) Benzyl alcohol	4.477	108	448928	96.41	ppm	100
17) 1,2-Dichlorobenzene	4.461	146	852709	80.28	ppm	100
18) Acetophenone	4.643	105	1054011	89.37	ppm	100
19) 2-Methylphenol	4.590	108	784401	90.09	ppm	100
20) 2,2'-oxybis(1-Chloropr...	4.541	121	223879	80.05	ppm	100

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109742.D
Acq On : 13 Apr 2016 10:06 pm
Operator : sarad
Sample : ic5485-100
Misc : op92825,ez5485
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 08:59:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:57:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.702	108	757841	84.33	ppm	100
22) n-Nitroso-di-n-propyla...	4.654	70	514729	80.67	ppm	100
23) Hexachloroethane	4.702	201	262273	90.60	ppm	100
26) Nitrobenzene	4.771	77	718859	81.09	ppm	100
27) Quinoline	5.530	129	1788460	88.68	ppm	100
28) Isophorone	4.937	82	1368998	93.07	ppm	100
29) 2-Nitrophenol	5.001	139	481809	90.06	ppm	100
30) 2,4-Dimethylphenol	5.065	107	770835	93.29	ppm	100
31) Benzoic Acid	5.215	105	634926m	103.43	ppm	
32) bis(2-Chloroethoxy)met...	5.097	93	798600	84.63	ppm	100
33) 2,4-Dichlorophenol	5.188	162	680309	97.30	ppm	100
34) 2,6-Dichlorophenol	5.343	162	652097	93.74	ppm	100
35) 1,3,5-Trichlorobenzene	4.985	180	716845	91.17	ppm	100
36) 1,2,4-Trichlorobenzene	5.215	180	657004	86.26	ppm	100
37) 1,2,3-Trichlorobenzene	5.380	180	629870	85.69	ppm	100
38) Naphthalene	5.273	128	2470777	83.60	ppm	100
39) 4-Chloroaniline	5.343	127	923258	78.21	ppm	100
40) 2,3-Dichloroaniline	5.984	161	789941	83.16	ppm	100
41) Caprolactam	5.626	55	355543m	100.75	ppm	
42) Hexachlorobutadiene	5.359	225	310162	95.81	ppm	100
43) 4-Chloro-3-methylphenol	5.722	107	706257	93.17	ppm	100
44) 2-Methylnaphthalene	5.759	141	1383922	90.42	ppm	100
45) 1-Methylnaphthalene	5.829	141	1429739	82.16	ppm	100
46) Dimethylnaphthalene	6.214	156	1474309	89.00	ppm	100
48) Hexachlorocyclopentadiene	5.872	237	736159	208.20	ppm	100
49) 2,4,6-Trichlorophenol	5.989	196	425630	90.67	ppm	100
50) 2,4,5-Trichlorophenol	6.032	196	449458	82.05	ppm	100
52) 2-Chloronaphthalene	6.117	162	1364612	77.11	ppm	100
53) Biphenyl	6.101	154	1949465	79.89	ppm	100
54) 2-Nitroaniline	6.230	65	409245	91.46	ppm	100
55) Dimethylphthalate	6.352	163	1665699	87.43	ppm	100
56) Acenaphthylene	6.443	152	2532751	85.76	ppm	100
57) 2,6-Dinitrotoluene	6.406	165	385466	96.06	ppm	100
58) 3-Nitroaniline	6.577	138	454966	90.61	ppm	100
59) Acenaphthene	6.588	153	1513994	84.45	ppm	100
60) 2,4-Dinitrophenol	6.652	184	457546	246.48	ppm	100
61) 4-Nitrophenol	6.807	109	201033	84.14	ppm	100
62) Dibenzofuran	6.748	168	2083550	83.49	ppm	100
63) 2,4-Dinitrotoluene	6.764	165	502814	94.18	ppm	100
64) 2,3,4,6-Tetrachlorophenol	6.892	232	371290	85.51	ppm	100
65) Diethylphthalate	6.983	149	1634570	80.17	ppm	100
66) Fluorene	7.084	166	1654799	80.70	ppm	100
67) 4-Chlorophenyl-phenyle...	7.079	204	710313	83.93	ppm	100
68) 4-Nitroaniline	7.202	138	480323	102.01	ppm	100
70) 4,6-Dinitro-2-methylph...	7.175	198	320984	122.28	ppm	100
71) n-Nitrosodiphenylamine	7.229	169	1205905	87.30	ppm	100
72) 1,2-Diphenylhydrazine	7.255	77	1412011	85.61	ppm	100
74) 4-Bromophenyl-phenylether	7.640	248	428314	85.37	ppm	100
75) Hexachlorobenzene	7.715	284	472683	83.18	ppm	100
76) Pentachlorophenol	8.019	266	618213	220.50	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109742.D
Acq On : 13 Apr 2016 10:06 pm
Operator : sarad
Sample : ic5485-100
Misc : op92825,ez5485
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 08:59:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:57:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.265	178	2377720	86.35	ppm	100
78)	Anthracene	8.340	178	2445080	86.90	ppm	100
79)	Carbazole	8.639	167	2369418	89.40	ppm	100
80)	Di-n-butylphthalate	9.227	149	2986496	91.62	ppm	100
81)	Fluoranthene	10.252	202	2529527	84.76	ppm	100
82)	Octadecane	8.078	57	1004489	84.10	ppm	100
84)	Pyrene	10.674	202	2520664	86.06	ppm	100
85)	Butyl stearate	12.411	56	753115	100.13	ppm	100
87)	Butylbenzylphthalate	12.208	149	1321498	97.84	ppm	100
88)	Benzo[a]anthracene	13.212	228	2280004	89.23	ppm	100
89)	3,3'-Dichlorobenzidine	13.308	252	810906	92.32	ppm	100
90)	Chrysene	13.292	228	2109373	83.45	ppm	100
91)	bis(2-Ethylhexyl)phtha...	13.543	149	1851863	97.72	ppm	100
93)	Di-n-octylphthalate	14.953	149	3244891	102.03	ppm	100
94)	Benzo[b]fluoranthene	15.493	252	2400305	85.43	ppm	100
95)	Benzo[k]fluoranthene	15.552	252	2112038	86.42	ppm	100
96)	Benzo[a]pyrene	16.113	252	2172466	88.10	ppm	100
97)	Indeno[1,2,3-cd]pyrene	18.148	276	2133478	87.17	ppm	100
98)	Dibenz(a,h)acridine	17.785	279	1983581	82.15	ppm	100
99)	Dibenz[a,h]anthracene	18.202	278	2285569	88.52	ppm	100
100)	7,12-Dimethylbenz(a)an...	15.504	256	1079127	82.00	ppm	100
101)	Benzo[g,h,i]perylene	18.581	276	2182260	79.66	ppm	100

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

7.6.117

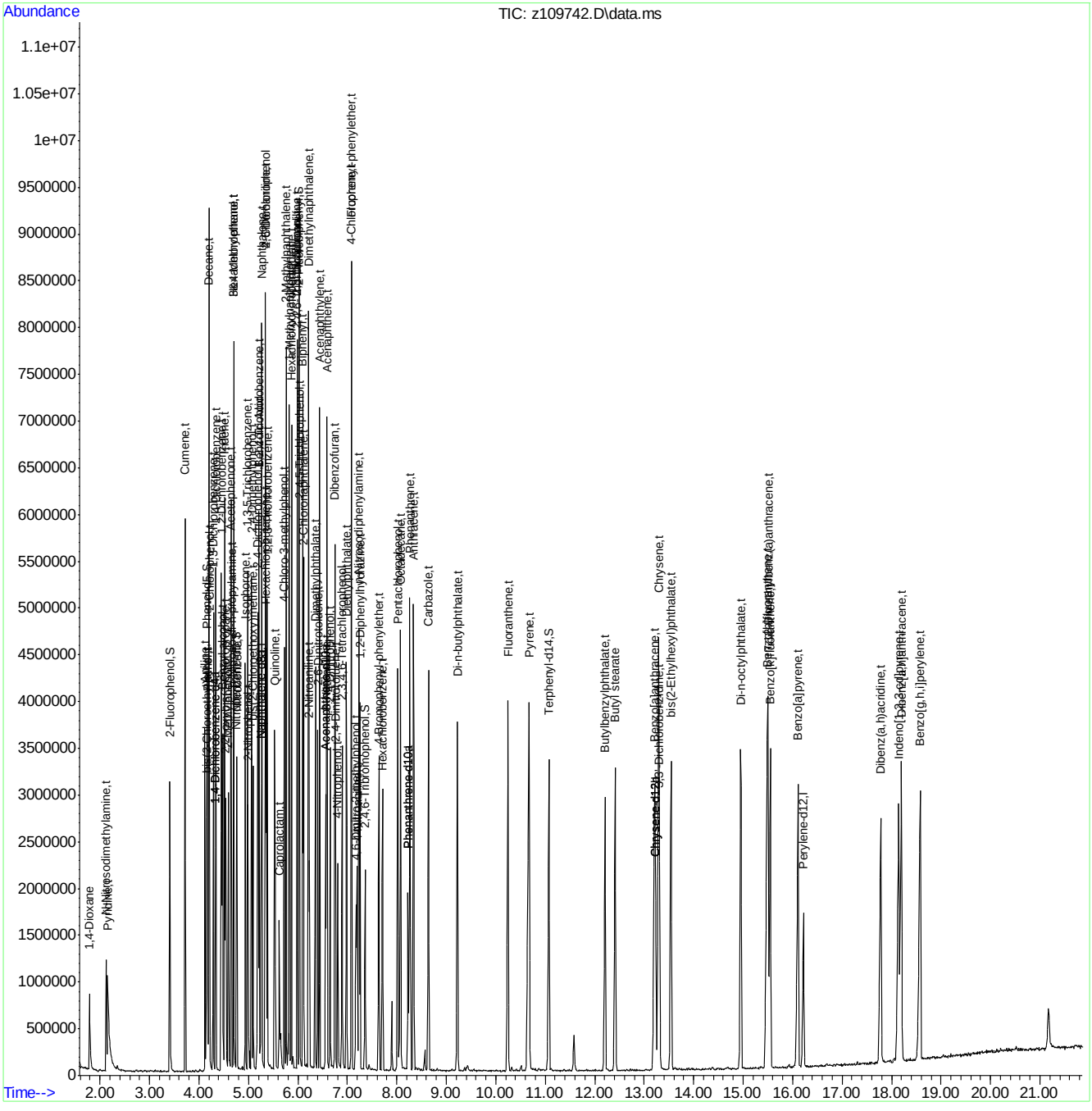
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109742.D
Acq On : 13 Apr 2016 10:06 pm
Operator : sarad
Sample : ic5485-100
Misc : op92825,ez5485
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 08:59:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:57:34 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 08:59:37 2016 RTE

SGS ACCUTEST JC19423

Manual Integration Approval Summary

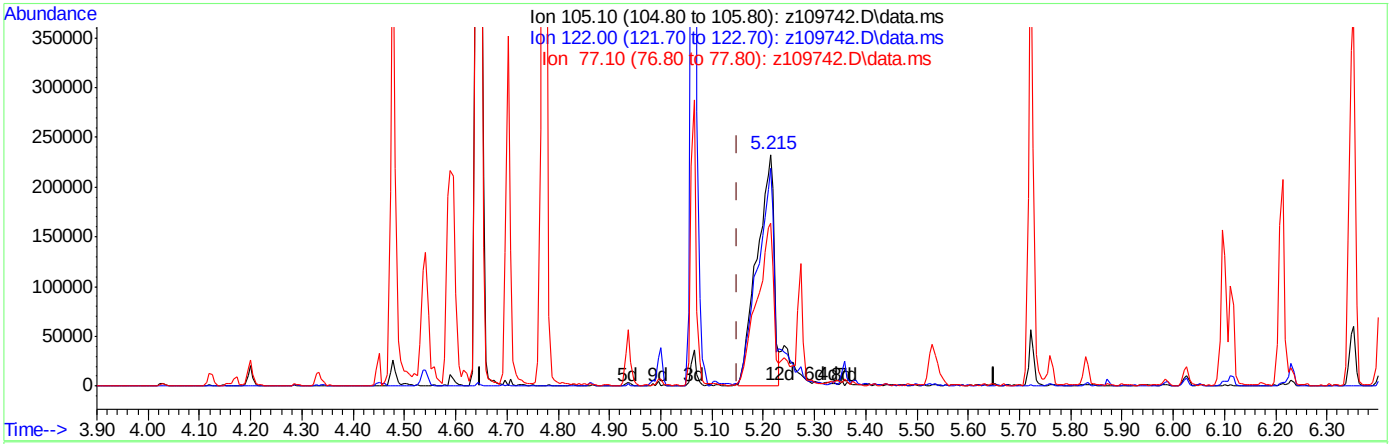
Sample Number:	EZ5485-IC5485	**Method:**	SW846 8270D
Lab FileID:	Z109742.D	**Analyst approved:**	04/14/16 09:34 Arielle Cocozza
Injection Time:	04/13/16 22:06	**Supervisor approved:**	04/14/16 15:48 Nina Pandya

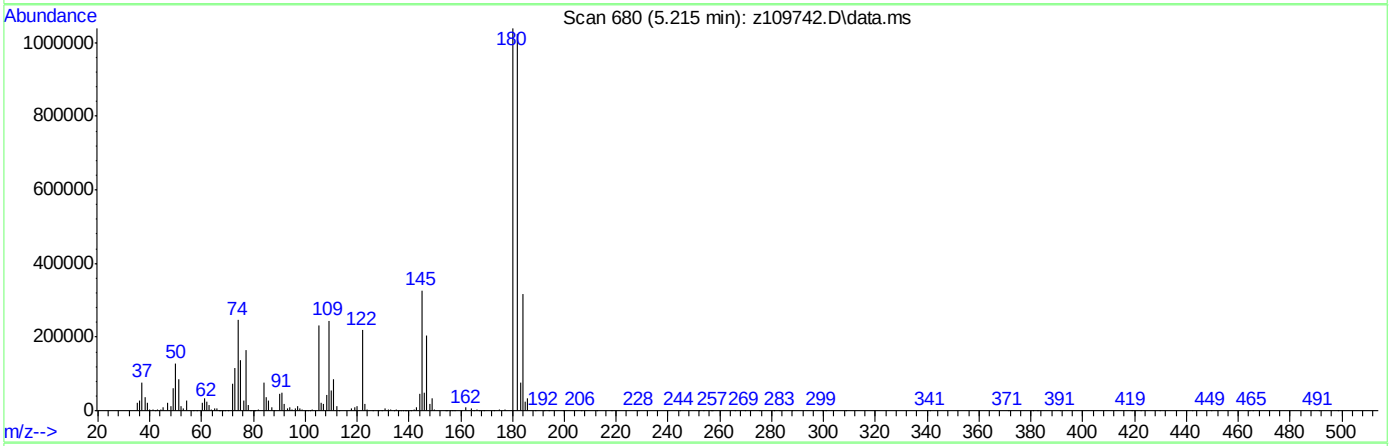
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.21	Poor instrument integration
Caprolactam	105-60-2		5.63	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109742.D
Acq On : 13 Apr 2016 10:06 pm
Operator : sarad
Sample : ic5485-100
Misc : op92825,ez5485
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 08:51:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:51:08 2016
Response via : Initial Calibration





(31) Benzoic Acid

5.215min (+0.065) 92.20ppm

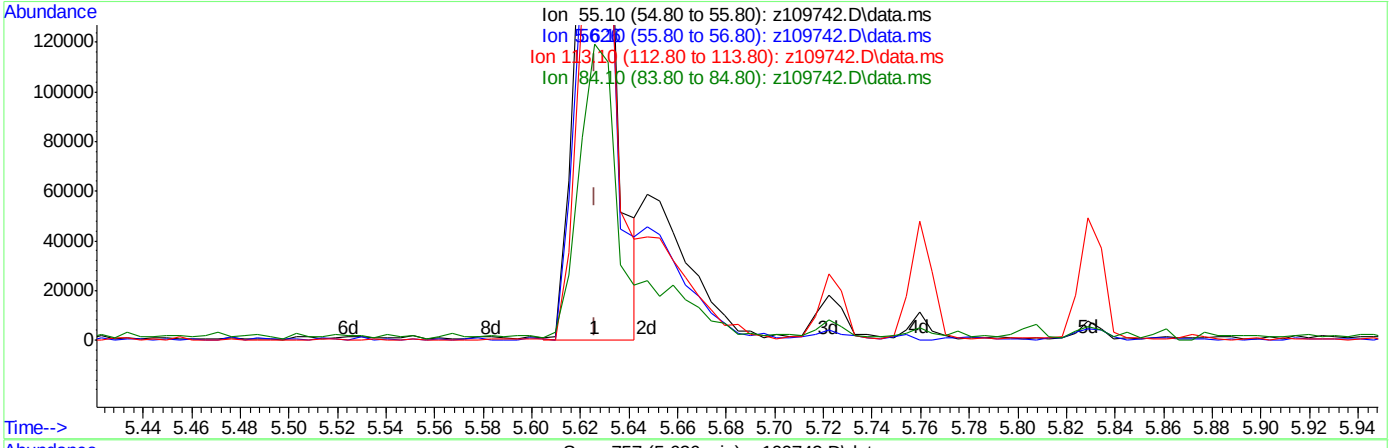
response 546611

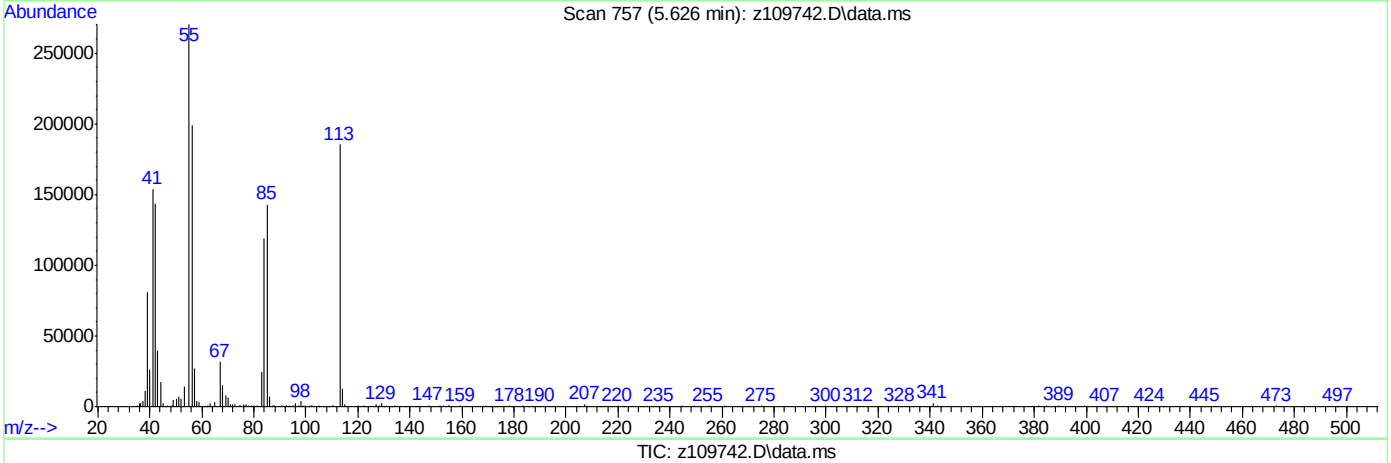
Ion	Exp%	Act%
105.10	100	100
122.00	65.80	92.34#
77.10	70.30	70.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109742.D
Acq On : 13 Apr 2016 10:06 pm
Operator : sarad
Sample : ic5485-100
Misc : op92825,ez5485
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 08:57:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:57:34 2016
Response via : Initial Calibration





TIC: z109742.D\data.ms

(41) Caprolactam (t)

5.626min (0.000) 77.53ppm

response 273580

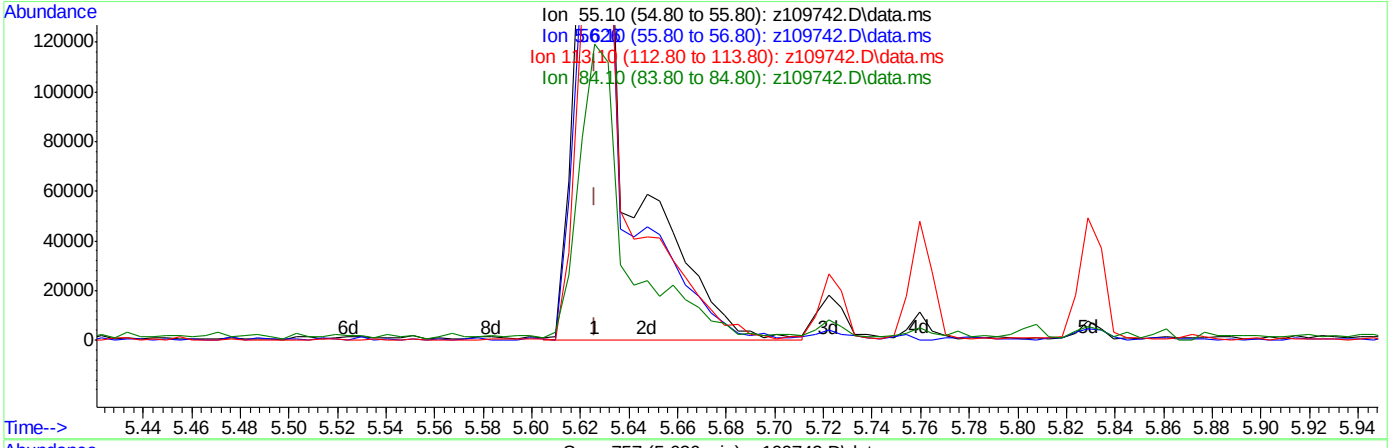
Ion	Exp%	Act%
55.10	100	100
56.10	72.40	72.44
113.10	67.30	67.26
84.10	43.90	43.86

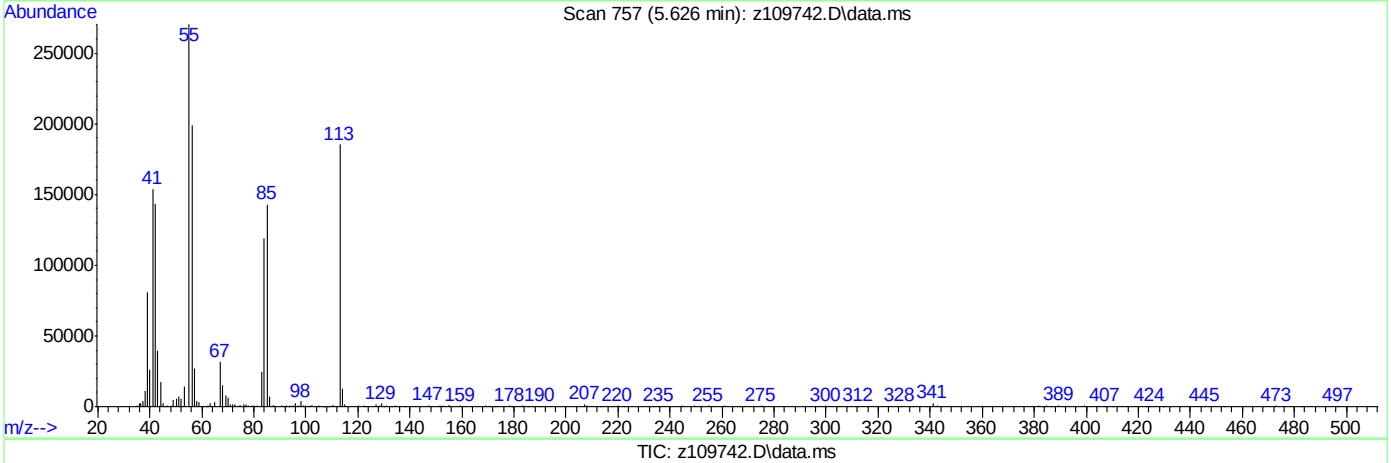
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109742.D
Acq On : 13 Apr 2016 10:06 pm
Operator : sarad
Sample : ic5485-100
Misc : op92825,ez5485
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 08:57:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:57:34 2016
Response via : Initial Calibration





TIC: z109742.D\data.ms

(41) Caprolactam (t)

5.626min (0.000) 100.75ppm m

response 355543

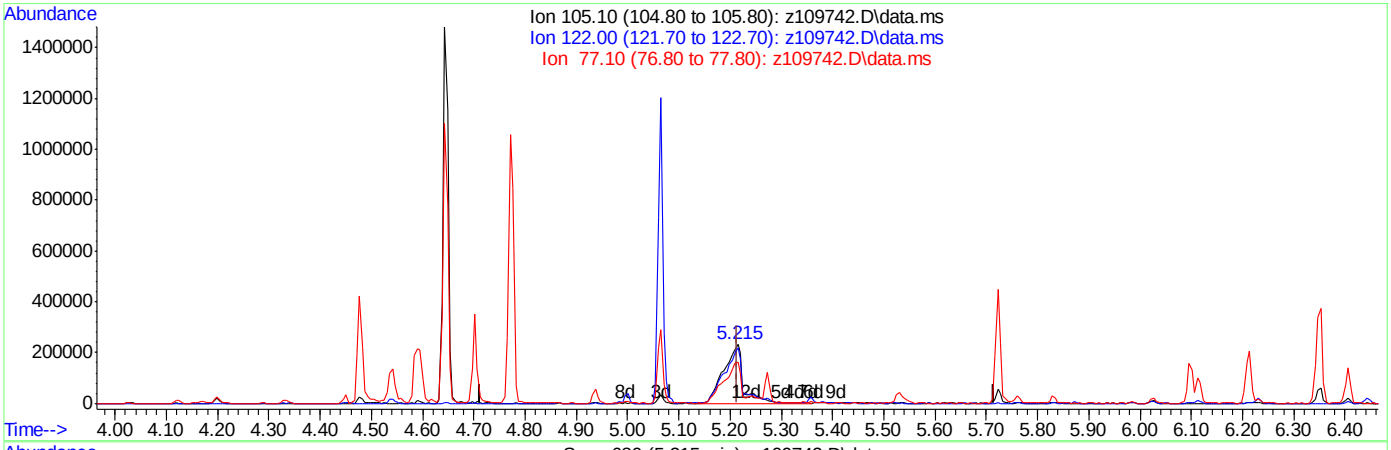
Ion	Exp%	Act%
55.10	100	100
56.10	72.40	73.48
113.10	67.30	68.58
84.10	43.90	44.12

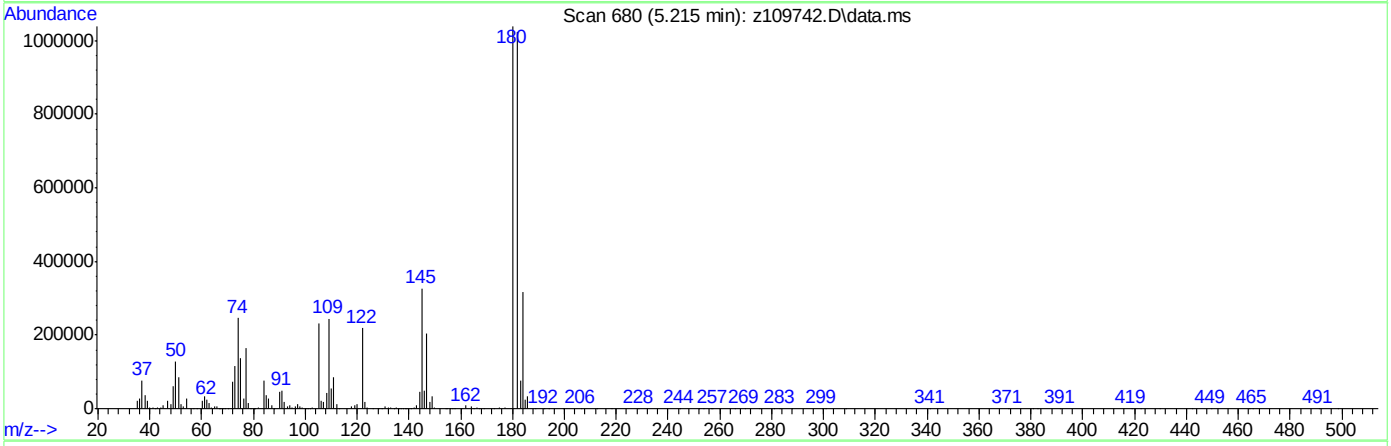
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109742.D
Acq On : 13 Apr 2016 10:06 pm
Operator : sarad
Sample : ic5485-100
Misc : op92825,ez5485
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 08:57:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:57:34 2016
Response via : Initial Calibration





TIC: z109742.D\data.ms

(31) Benzoic Acid

5.215min (0.000) 103.43ppm m

response 634926

Ion	Exp%	Act%
105.10	100	100
122.00	94.00	93.95
77.10	70.50	70.48
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/14/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109743.D
Acq On : 13 Apr 2016 10:38 pm
Operator : sarad
Sample : ic5485-80
Misc : op92825,ez5485
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 09:03:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:02:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.333	152	258285	40.00	ppm	0.00
24) Naphthalene-d8	5.257	136	1014560	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	565384	40.00	ppm	0.00
69) Phenanthrene-d10	8.227	188	900035	40.00	ppm	0.00
83) Chrysene-d12	13.222	240	805741	40.00	ppm	-0.01
92) Perylene-d12	16.209	264	820789	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.333	152	258285	40.00	ppm	0.00
104) Phenanthrene-d10a	8.227	188	900035	40.00	ppm	0.00
108) Chrysene-d12a	13.222	240	805741	40.00	ppm	-0.01
110) Acenaphthene-d10a	6.555	164	565384	40.00	ppm	0.00
112) Naphthalene-d8a	5.257	136	1014560	40.00	ppm	0.00
114) Chrysene-d12b	13.222	240	805741	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.409	112	709376	78.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	156.90%	
8) Phenol-d5	4.157	99	806274	76.64	ppm	0.00
Spiked Amount 50.000			Recovery	=	153.28%	
25) Nitrobenzene-d5	4.755	82	607952	70.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	140.06%	
51) 2-Fluorobiphenyl	6.021	172	1292625	69.47	ppm	0.00
Spiked Amount 50.000			Recovery	=	138.94%	
73) 2,4,6-Tribromophenol	7.357	330	206696	69.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	138.30%	
86) Terphenyl-d14	11.069	244	1290655	72.58	ppm	0.00
Spiked Amount 50.000			Recovery	=	145.16%	
105) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.790	88	290060	73.69	ppm	95
3) Pyridine	2.153	79	591571	77.40	ppm	97
4) N-Nitrosodimethylamine	2.121	74	356877	69.18	ppm	99
6) Indene	4.520	116	1212997	70.22	ppm	99
7) Cumene	3.719	105	1586089	74.42	ppm	100
9) Phenol	4.167	94	793059	72.79	ppm	96
10) Aniline	4.119	93	904003	72.00	ppm	100
11) bis(2-Chloroethyl)ether	4.151	93	538931	71.11	ppm	99
12) 2-Chlorophenol	4.210	128	687188	65.19	ppm	94
13) Decane	4.199	43	624374	64.01	ppm	97
14) 1,3-Dichlorobenzene	4.290	146	780253	71.02	ppm	98
15) 1,4-Dichlorobenzene	4.344	146	768325	75.55	ppm	98
16) Benzyl alcohol	4.477	108	383798	83.92	ppm	89
17) 1,2-Dichlorobenzene	4.461	146	711393	68.19	ppm	98
18) Acetophenone	4.643	105	870526	75.16	ppm	96
19) 2-Methylphenol	4.589	108	637963	74.60	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.536	121	183592	66.84	ppm	94

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109743.D
Acq On : 13 Apr 2016 10:38 pm
Operator : sarad
Sample : ic5485-80
Misc : op92825,ez5485
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 09:03:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:02:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.702	108	639173	72.42	ppm	95
22) n-Nitroso-di-n-propyla...	4.648	70	414398	66.13	ppm	99
23) Hexachloroethane	4.696	201	220115	77.42	ppm	85
26) Nitrobenzene	4.771	77	583971	65.74	ppm	93
27) Quinoline	5.524	129	1441118	71.31	ppm	98
28) Isophorone	4.931	82	1100242	74.64	ppm	97
29) 2-Nitrophenol	4.995	139	384575	71.74	ppm	81
30) 2,4-Dimethylphenol	5.059	107	619586	74.83	ppm	98
31) Benzoic Acid	5.204	105	518620m	84.40	ppm	
32) bis(2-Chloroethoxy)met...	5.092	93	652548	69.01	ppm	99
33) 2,4-Dichlorophenol	5.188	162	557623	79.59	ppm	97
34) 2,6-Dichlorophenol	5.343	162	531511	76.25	ppm	98
35) 1,3,5-Trichlorobenzene	4.985	180	578470	73.42	ppm	97
36) 1,2,4-Trichlorobenzene	5.214	180	531338	69.62	ppm	99
37) 1,2,3-Trichlorobenzene	5.380	180	512158	69.53	ppm	97
38) Naphthalene	5.273	128	2054161	69.36	ppm	100
39) 4-Chloroaniline	5.343	127	758322	64.11	ppm	96
40) 2,3-Dichloroaniline	5.984	161	635911	66.81	ppm	99
41) Caprolactam	5.620	55	271772m	71.33	ppm	
42) Hexachlorobutadiene	5.359	225	252173	77.74	ppm	97
43) 4-Chloro-3-methylphenol	5.722	107	593128	78.08	ppm	89
44) 2-Methylnaphthalene	5.759	141	1130401	73.70	ppm	97
45) 1-Methylnaphthalene	5.829	141	1164883	66.81	ppm	98
46) Dimethylnaphthalene	6.208	156	1203944	72.53	ppm	100
48) Hexachlorocyclopentadiene	5.866	237	619137	181.65	ppm	96
49) 2,4,6-Trichlorophenol	5.984	196	353907	78.21	ppm	99
50) 2,4,5-Trichlorophenol	6.026	196	361146	68.40	ppm	93
52) 2-Chloronaphthalene	6.112	162	1126830	66.06	ppm	95
53) Biphenyl	6.096	154	1601083	68.07	ppm	98
54) 2-Nitroaniline	6.229	65	339315	78.67	ppm	93
55) Dimethylphthalate	6.347	163	1338542	72.89	ppm	99
56) Acenaphthylene	6.443	152	2101227	73.81	ppm	99
57) 2,6-Dinitrotoluene	6.406	165	305573	79.00	ppm	95
58) 3-Nitroaniline	6.577	138	365741	75.56	ppm	90
59) Acenaphthene	6.587	153	1228182	71.07	ppm	99
60) 2,4-Dinitrophenol	6.646	184	360816	201.64	ppm	98
61) 4-Nitrophenol	6.801	109	166854	72.45	ppm	97
62) Dibenzofuran	6.748	168	1691555	70.32	ppm	99
63) 2,4-Dinitrotoluene	6.758	165	399730	77.67	ppm	98
64) 2,3,4,6-Tetrachlorophenol	6.892	232	298441	71.30	ppm	95
65) Diethylphthalate	6.977	149	1319563	67.14	ppm	99
66) Fluorene	7.079	166	1341353	67.86	ppm	99
67) 4-Chlorophenyl-phenyle...	7.079	204	573029	70.24	ppm	93
68) 4-Nitroaniline	7.191	138	377040	83.07	ppm	91
70) 4,6-Dinitro-2-methylph...	7.170	198	247625	97.05	ppm	88
71) n-Nitrosodiphenylamine	7.223	169	964899	71.87	ppm	99
72) 1,2-Diphenylhydrazine	7.250	77	1147428	71.57	ppm	96
74) 4-Bromophenyl-phenylether	7.634	248	341909	70.11	ppm	97
75) Hexachlorobenzene	7.709	284	380919	68.96	ppm	98
76) Pentachlorophenol	8.014	266	491527	180.37	ppm	99

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109743.D
Acq On : 13 Apr 2016 10:38 pm
Operator : sarad
Sample : ic5485-80
Misc : op92825,ez5485
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 09:03:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:02:02 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77)	Phenanthrene	8.259	178	1924726	71.91 ppm	98
78)	Anthracene	8.334	178	1967060	71.92 ppm	99
79)	Carbazole	8.633	167	1934892	75.11 ppm	99
80)	Di-n-butylphthalate	9.221	149	2402258	75.82 ppm	100
81)	Fluoranthene	10.247	202	1965351	67.75 ppm	97
82)	Octadecane	8.072	57	801617	69.04 ppm	98
84)	Pyrene	10.669	202	2021823	71.71 ppm	98
85)	Butyl stearate	12.405	56	606765	83.81 ppm	98
87)	Butylbenzylphthalate	12.202	149	1060797	81.59 ppm	95
88)	Benzo[a]anthracene	13.201	228	1836324	74.67 ppm	98
89)	3,3'-Dichlorobenzidine	13.303	252	658541	77.89 ppm	94
90)	Chrysene	13.281	228	1711519	70.35 ppm	99
91)	bis(2-Ethylhexyl)phtha...	13.532	149	1485711	81.45 ppm	98
93)	Di-n-octylphthalate	14.943	149	2597489	84.40 ppm	99
94)	Benzo[b]fluoranthene	15.477	252	1963861	72.22 ppm	97
95)	Benzo[k]fluoranthene	15.541	252	1686384	71.30 ppm	100
96)	Benzo[a]pyrene	16.097	252	1731239	72.55 ppm	96
97)	Indeno[1,2,3-cd]pyrene	18.132	276	1722800	72.74 ppm	98
98)	Dibenz(a,h)acridine	17.774	279	1621595	69.40 ppm	99
99)	Dibenz[a,h]anthracene	18.191	278	1838785	73.59 ppm	99
100)	7,12-Dimethylbenz(a)an...	15.488	256	877172	68.88 ppm	96
101)	Benzo[g,h,i]perylene	18.565	276	1789885	67.52 ppm	98

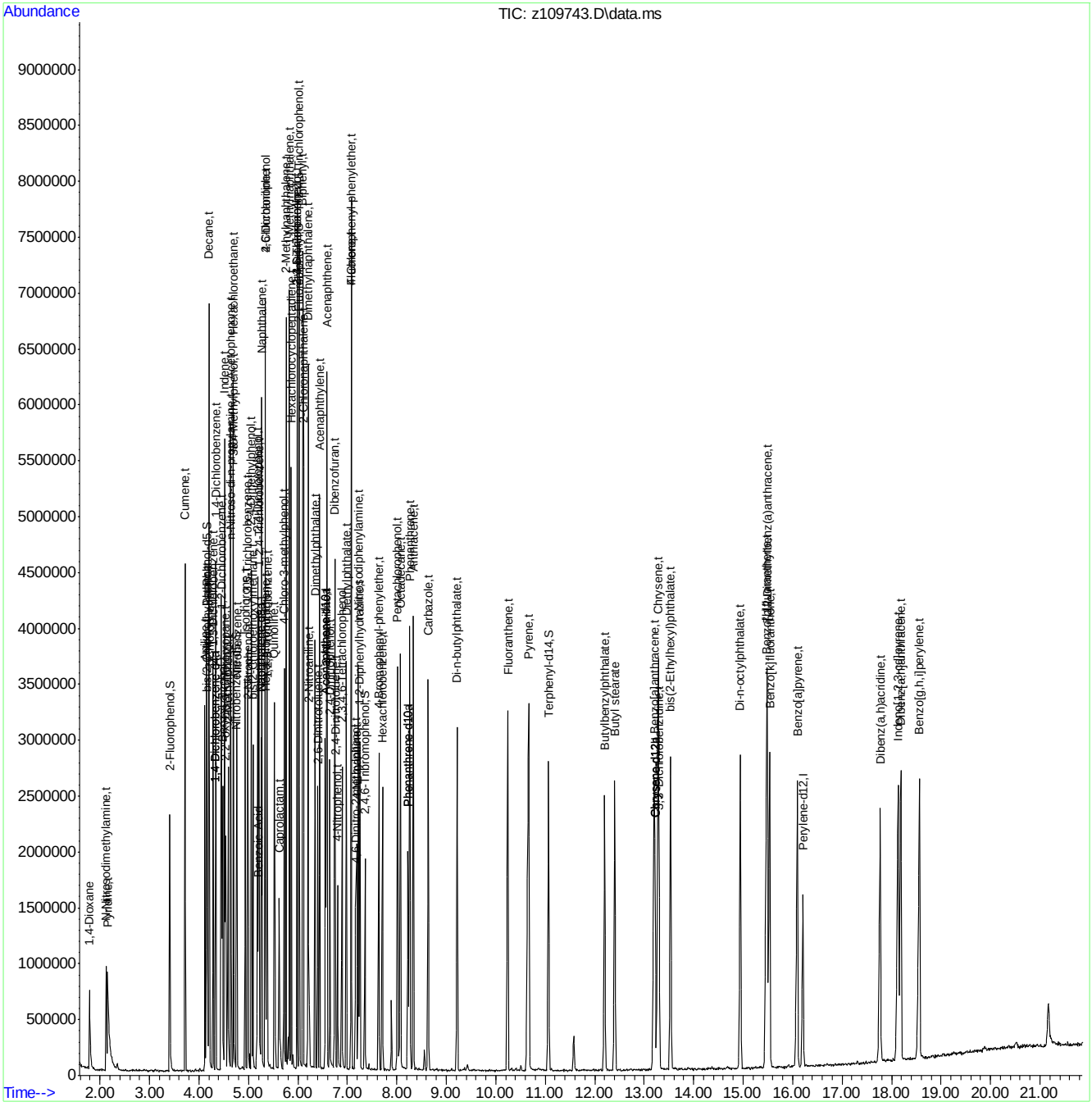
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109743.D
Acq On : 13 Apr 2016 10:38 pm
Operator : sarad
Sample : ic5485-80
Misc : op92825,ez5485
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 09:03:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:02:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Manual Integration Approval Summary

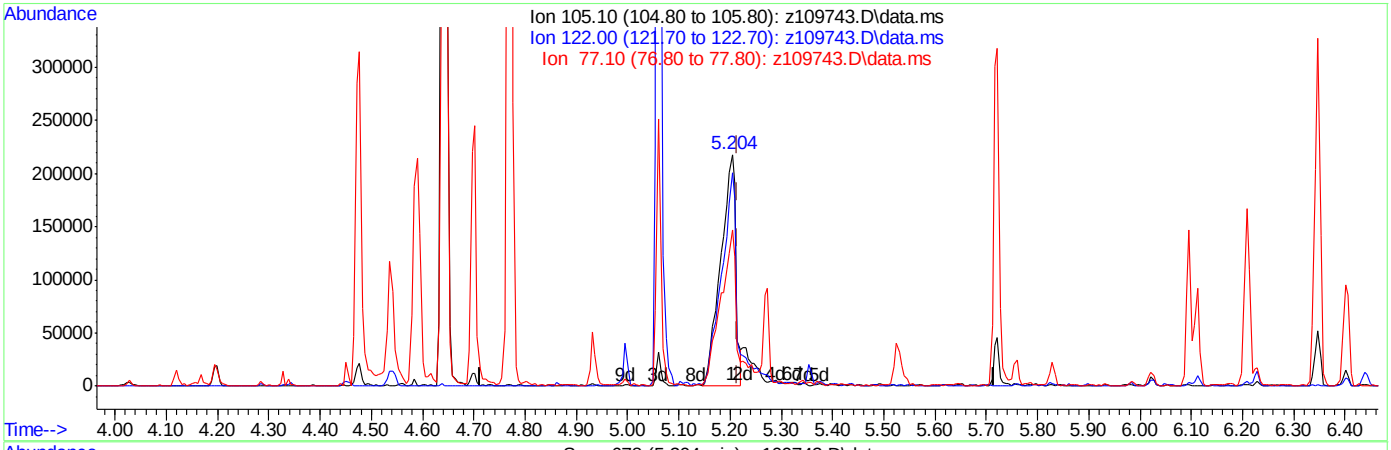
Sample Number:	EZ5485-IC5485	**Method:**	SW846 8270D
Lab FileID:	Z109743.D	**Analyst approved:**	04/14/16 09:34 Arielle Cocozza
Injection Time:	04/13/16 22:38	**Supervisor approved:**	04/14/16 15:48 Nina Pandya

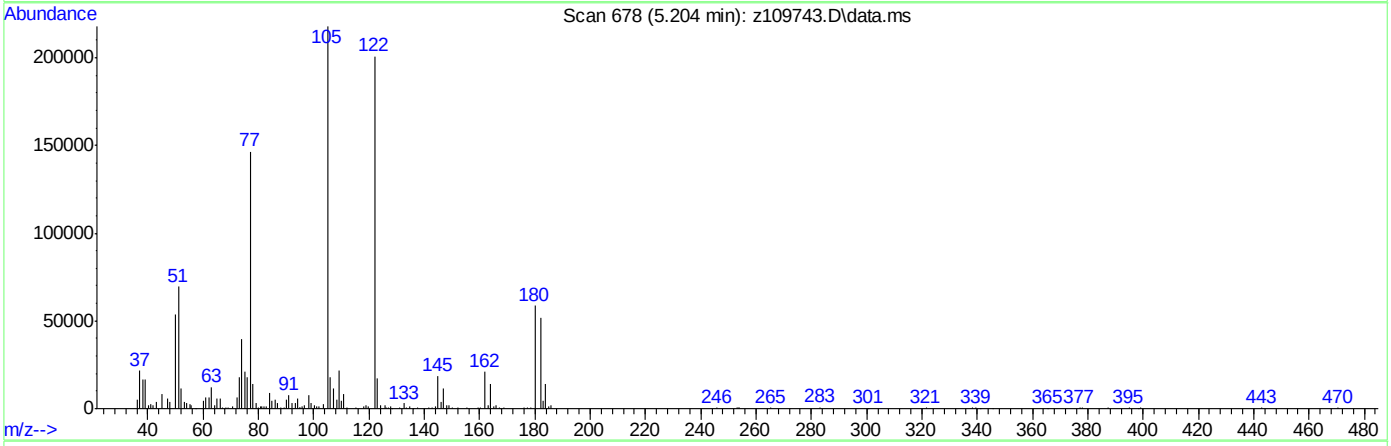
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.20	Poor instrument integration
Caprolactam	105-60-2		5.62	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109743.D
Acq On : 13 Apr 2016 10:38 pm
Operator : sarad
Sample : ic5485-80
Misc : op92825,ez5485
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 09:02:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:02:02 2016
Response via : Initial Calibration





TIC: z109743.D\data.ms

(31) Benzoic Acid

5.204min (-0.011) 72.83ppm

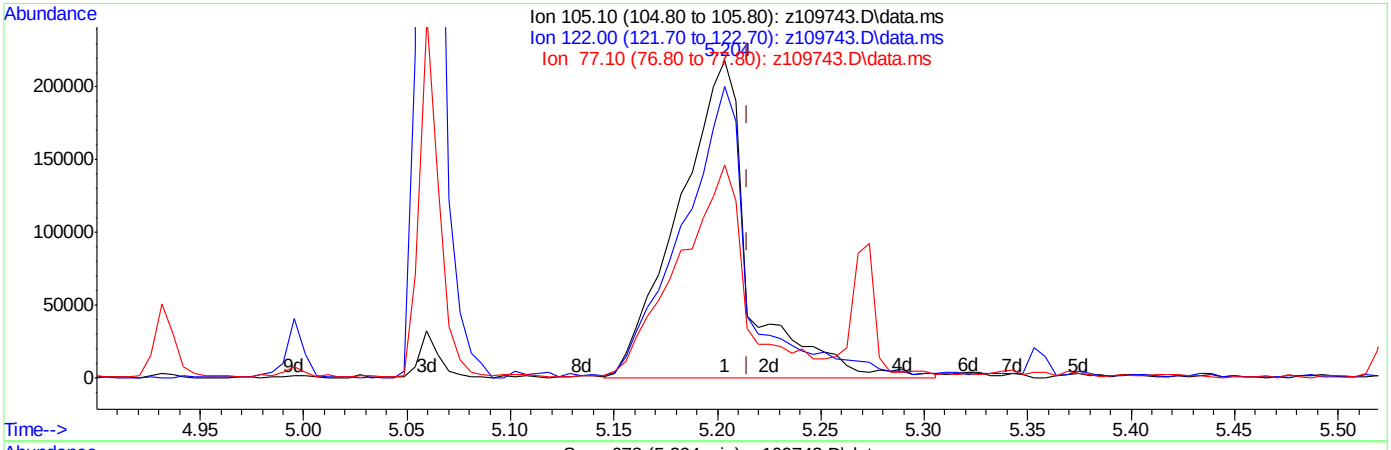
response 447525

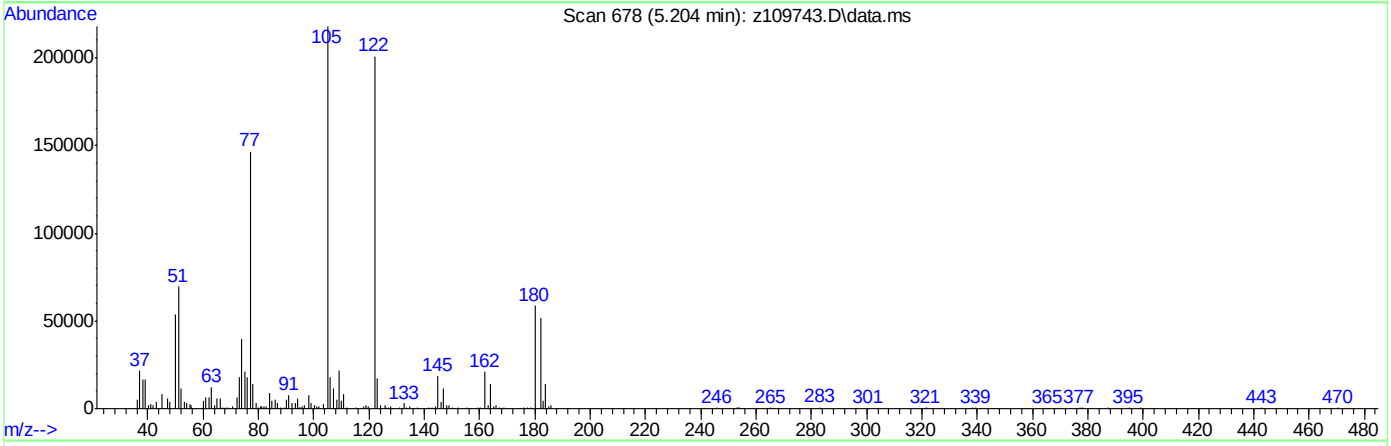
Ion	Exp%	Act%
105.10	100	100
122.00	94.00	92.29
77.10	70.50	67.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109743.D
Acq On : 13 Apr 2016 10:38 pm
Operator : sarad
Sample : ic5485-80
Misc : op92825,ez5485
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 09:02:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:02:02 2016
Response via : Initial Calibration





TIC: z109743.D\data.ms

(31) Benzoic Acid

5.204min (-0.011) 84.40ppm m

response 518620

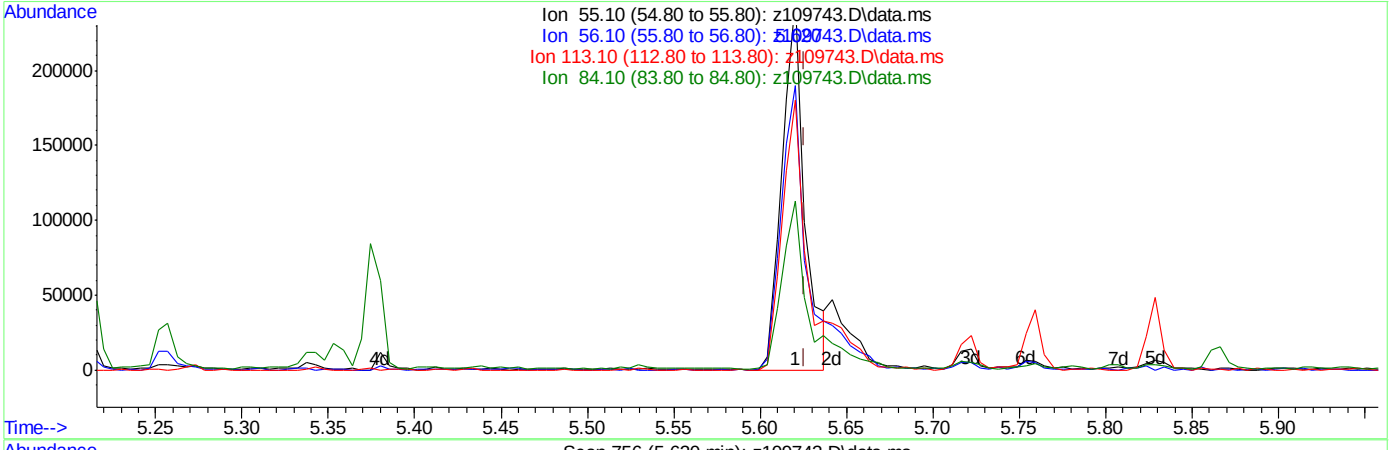
Ion	Exp%	Act%
105.10	100	100
122.00	94.00	92.10
77.10	70.50	67.25
0.00	0.00	0.00

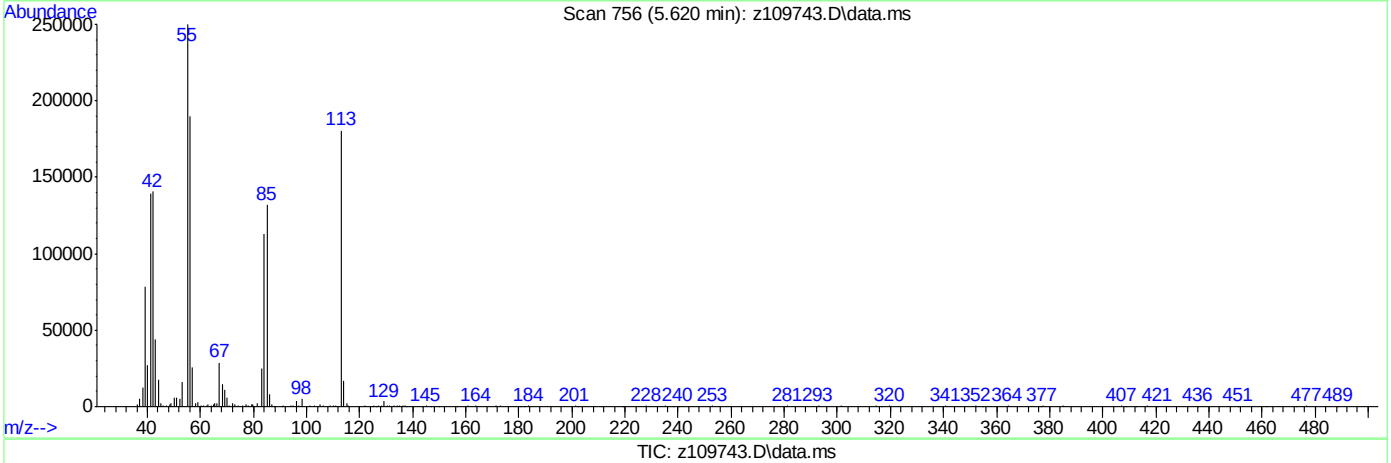
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109743.D
Acq On : 13 Apr 2016 10:38 pm
Operator : sarad
Sample : ic5485-80
Misc : op92825,ez5485
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 09:02:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:02:02 2016
Response via : Initial Calibration





TIC: z109743.D\data.ms

(41) Caprolactam (t)

5.620min (-0.006) 59.55ppm

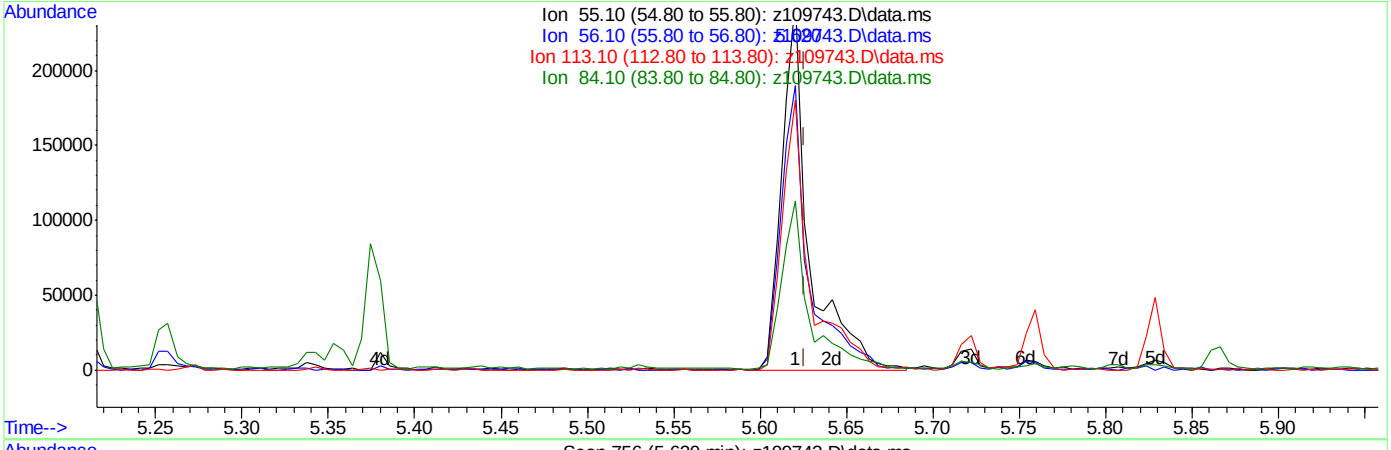
response 226878

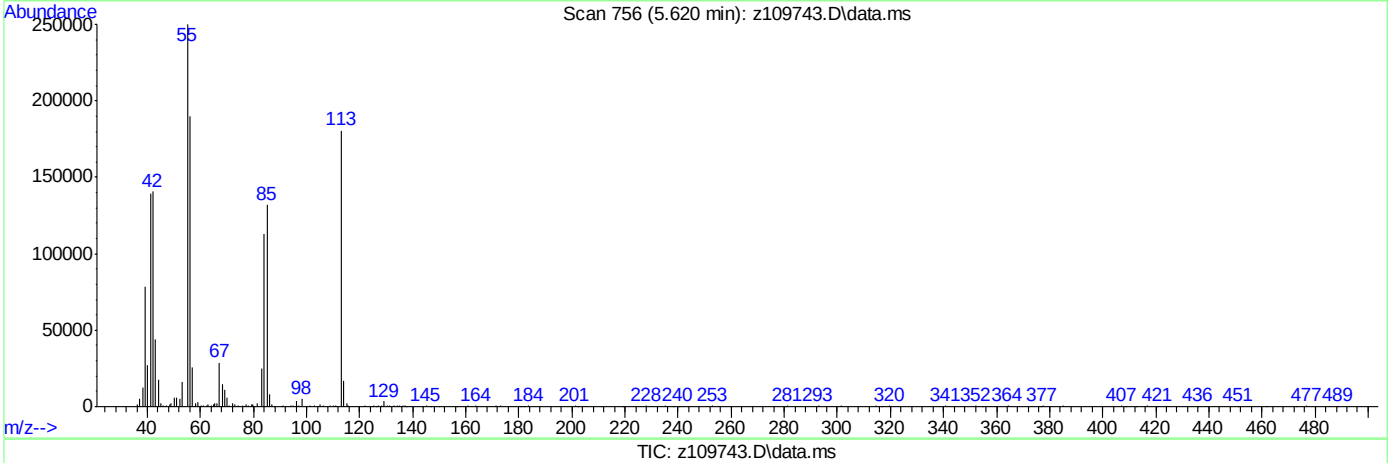
Ion	Exp%	Act%
55.10	100	100
56.10	73.50	75.29
113.10	68.60	71.30
84.10	44.10	43.64

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109743.D
Acq On : 13 Apr 2016 10:38 pm
Operator : sarad
Sample : ic5485-80
Misc : op92825,ez5485
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 09:02:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:02:02 2016
Response via : Initial Calibration





TIC: z109743.D\data.ms

(41) Caprolactam (t)

5.620min (-0.006) 71.33ppm m

response 271772

Ion	Exp%	Act%
55.10	100	100
56.10	73.50	76.04
113.10	68.60	72.23
84.10	44.10	45.04

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109744.D
Acq On : 13 Apr 2016 11:09 pm
Operator : sarad
Sample : ic5485-25
Misc : op92825,ez5485
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 14 09:06:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:04:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	280948	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1064510	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	592883	40.00	ppm	0.00
69) Phenanthrene-d10	8.222	188	949333	40.00	ppm	0.00
83) Chrysene-d12	13.217	240	863958	40.00	ppm	0.00
92) Perylene-d12	16.204	264	858833	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	280948	40.00	ppm	0.00
104) Phenanthrene-d10a	8.222	188	949333	40.00	ppm	0.00
108) Chrysene-d12a	13.217	240	863958	40.00	ppm	0.00
110) Acenaphthene-d10a	6.555	164	592883	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1064510	40.00	ppm	0.00
114) Chrysene-d12b	13.217	240	863958	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.409	112	228527	23.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	46.70%	
8) Phenol-d5	4.157	99	273897	24.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	48.38%	
25) Nitrobenzene-d5	4.755	82	206136	23.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	46.72%	
51) 2-Fluorobiphenyl	6.021	172	464848	24.64	ppm	0.00
Spiked Amount 50.000			Recovery	=	49.28%	
73) 2,4,6-Tribromophenol	7.351	330	68260	22.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	44.82%	
86) Terphenyl-d14	11.059	244	423291	22.73	ppm	-0.01
Spiked Amount 50.000			Recovery	=	45.46%	
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.795	88	95996	22.87	ppm	93
3) Pyridine	2.175	79	180041	22.01	ppm	94
4) N-Nitrosodimethylamine	2.132	74	140193	25.86	ppm	92
6) Indene	4.520	116	423623	23.26	ppm	99
7) Cumene	3.719	105	546041	23.97	ppm	99
9) Phenol	4.162	94	277095	23.92	ppm	95
10) Aniline	4.119	93	329210	24.72	ppm	97
11) bis(2-Chloroethyl)ether	4.151	93	176483	22.02	ppm	97
12) 2-Chlorophenol	4.205	128	239621	21.91	ppm	95
13) Decane	4.194	43	231381	22.95	ppm	98
14) 1,3-Dichlorobenzene	4.285	146	275900	23.75	ppm	98
15) 1,4-Dichlorobenzene	4.344	146	261103	23.94	ppm	99
16) Benzyl alcohol	4.472	108	120344	23.90	ppm	89
17) 1,2-Dichlorobenzene	4.456	146	248316	22.72	ppm	95
18) Acetophenone	4.638	105	294033	23.70	ppm	93
19) 2-Methylphenol	4.584	108	201757	22.06	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.536	121	61040	21.31	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109744.D
Acq On : 13 Apr 2016 11:09 pm
Operator : sarad
Sample : ic5485-25
Misc : op92825,ez5485
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 14 09:06:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:04:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.696	108	218129	23.27	ppm	94
22) n-Nitroso-di-n-propyla...	4.638	70	152235	23.35	ppm	88
23) Hexachloroethane	4.696	201	79170	25.81	ppm	89
26) Nitrobenzene	4.766	77	209537	23.53	ppm	91
27) Quinoline	5.519	129	483781	23.45	ppm	98
28) Isophorone	4.926	82	366401	24.09	ppm	98
29) 2-Nitrophenol	4.995	139	134030	24.46	ppm	89
30) 2,4-Dimethylphenol	5.054	107	209074	24.46	ppm	97
31) Benzoic Acid	5.172	105	155360	23.66	ppm	89
32) bis(2-Chloroethoxy)met...	5.092	93	219992	22.96	ppm	99
33) 2,4-Dichlorophenol	5.188	162	185495	25.26	ppm	96
34) 2,6-Dichlorophenol	5.337	162	180699	25.00	ppm	98
35) 1,3,5-Trichlorobenzene	4.979	180	203664	25.15	ppm	95
36) 1,2,4-Trichlorobenzene	5.209	180	185260	23.91	ppm	96
37) 1,2,3-Trichlorobenzene	5.375	180	183818	24.59	ppm	90
38) Naphthalene	5.268	128	702811	23.40	ppm	99
39) 4-Chloroaniline	5.337	127	274166	23.24	ppm	93
40) 2,3-Dichloroaniline	5.984	161	224718	23.47	ppm	92
41) Caprolactam	5.594	55	89515	23.02	ppm	95
42) Hexachlorobutadiene	5.353	225	88600	26.22	ppm	99
43) 4-Chloro-3-methylphenol	5.711	107	197389	24.91	ppm	83
44) 2-Methylnaphthalene	5.754	141	403413	25.57	ppm	93
45) 1-Methylnaphthalene	5.829	141	422755	24.10	ppm	92
46) Dimethylnaphthalene	6.208	156	406350	23.89	ppm	97
48) Hexachlorocyclopentadiene	5.866	237	208790	56.51	ppm	96
49) 2,4,6-Trichlorophenol	5.984	196	120102	25.45	ppm	91
50) 2,4,5-Trichlorophenol	6.021	196	131136	24.58	ppm	88
52) 2-Chloronaphthalene	6.107	162	393753	23.02	ppm	98
53) Biphenyl	6.091	154	554076	23.33	ppm	98
54) 2-Nitroaniline	6.224	65	114355	25.39	ppm	95
55) Dimethylphthalate	6.342	163	461250	24.50	ppm	99
56) Acenaphthylene	6.438	152	714822	24.42	ppm	99
57) 2,6-Dinitrotoluene	6.395	165	100285	24.80	ppm	80
58) 3-Nitroaniline	6.566	138	124583	24.89	ppm	98
59) Acenaphthene	6.582	153	423635	24.05	ppm	98
60) 2,4-Dinitrophenol	6.641	184	103331	50.67	ppm	97
61) 4-Nitrophenol	6.796	109	52613	22.31	ppm	95
62) Dibenzofuran	6.742	168	583053	23.83	ppm	98
63) 2,4-Dinitrotoluene	6.753	165	134141	25.04	ppm	97
64) 2,3,4,6-Tetrachlorophenol	6.887	232	104650	24.51	ppm	98
65) Diethylphthalate	6.972	149	448588	22.68	ppm	99
66) Fluorene	7.074	166	475126	23.83	ppm	92
67) 4-Chlorophenyl-phenyle...	7.074	204	203013	24.48	ppm	95
68) 4-Nitroaniline	7.175	138	131233	27.31	ppm	94
70) 4,6-Dinitro-2-methylph...	7.159	198	68896	23.90	ppm	96
71) n-Nitrosodiphenylamine	7.218	169	328414	23.79	ppm	96
72) 1,2-Diphenylhydrazine	7.245	77	396607	24.09	ppm	99
74) 4-Bromophenyl-phenylether	7.629	248	118368	23.74	ppm	94
75) Hexachlorobenzene	7.704	284	128352	22.82	ppm	95
76) Pentachlorophenol	8.009	266	146716	49.47	ppm	95

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109744.D
Acq On : 13 Apr 2016 11:09 pm
Operator : sarad
Sample : ic5485-25
Misc : op92825,ez5485
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 14 09:06:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:04:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.254	178	635376	23.09	ppm	95
78)	Anthracene	8.324	178	670345	23.84	ppm	100
79)	Carbazole	8.628	167	648697	24.24	ppm	97
80)	Di-n-butylphthalate	9.216	149	793411	24.06	ppm	100
81)	Fluoranthene	10.236	202	668499	22.72	ppm	97
82)	Octadecane	8.073	57	278655	23.56	ppm	98
84)	Pyrene	10.653	202	684539	23.25	ppm	97
85)	Butyl stearate	12.395	56	193847	24.68	ppm	95
87)	Butylbenzylphthalate	12.191	149	341075	24.35	ppm	89
88)	Benzo[a]anthracene	13.185	228	602447	23.23	ppm	97
89)	3,3'-Dichlorobenzidine	13.292	252	227032	25.21	ppm	98
90)	Chrysene	13.265	228	585842	23.15	ppm	97
91)	bis(2-Ethylhexyl)phtha...	13.532	149	475075	24.18	ppm	99
93)	Di-n-octylphthalate	14.932	149	849184	26.01	ppm	99
94)	Benzo[b]fluoranthene	15.456	252	634827	22.87	ppm	97
95)	Benzo[k]fluoranthene	15.509	252	590358	24.52	ppm	98
96)	Benzo[a]pyrene	16.075	252	597927	24.52	ppm	98
97)	Indeno[1,2,3-cd]pyrene	18.111	276	578561	23.89	ppm	95
98)	Dibenz(a,h)acridine	17.753	279	550356	23.28	ppm	99
99)	Dibenz[a,h]anthracene	18.164	278	608301	23.74	ppm	96
100)	7,12-Dimethylbenz(a)an...	15.466	256	287021	22.32	ppm	96
101)	Benzo[g,h,i]perylene	18.538	276	612804	22.99	ppm	99

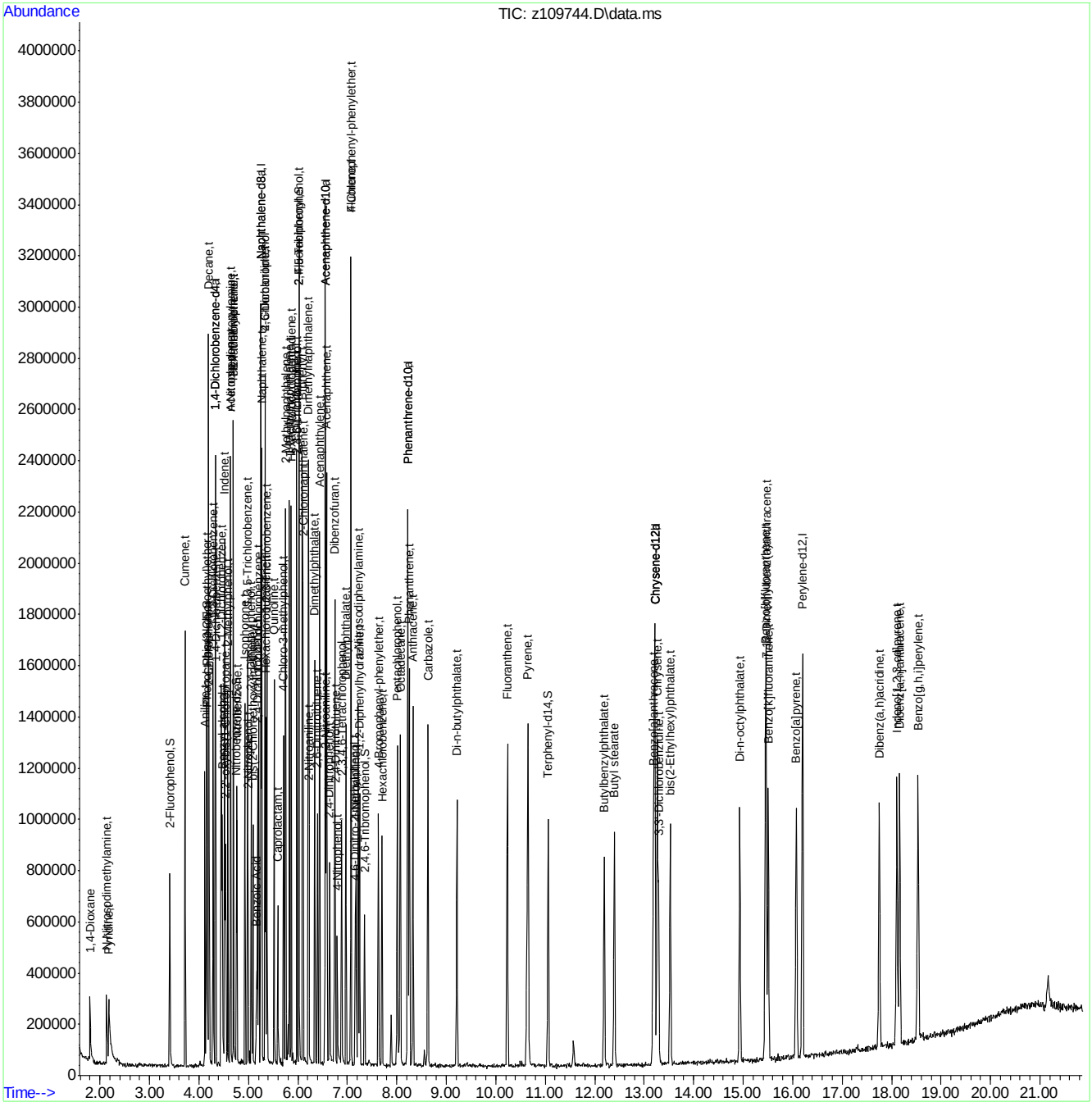
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109744.D
Acq On : 13 Apr 2016 11:09 pm
Operator : sarad
Sample : ic5485-25
Misc : op92825,ez5485
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 14 09:06:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:04:19 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 09:06:45 2016 RTE

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SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109745.D
Acq On : 13 Apr 2016 11:41 pm
Operator : sarad
Sample : ic5485-10
Misc : op92825,ez5485
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 09:12:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:11:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	293705	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1115195	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	602060	40.00	ppm	0.00
69) Phenanthrene-d10	8.222	188	961212	40.00	ppm	0.00
83) Chrysene-d12	13.207	240	884555	40.00	ppm	-0.01
92) Perylene-d12	16.204	264	877332	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	293705	40.00	ppm	0.00
104) Phenanthrene-d10a	8.222	188	961212	40.00	ppm	0.00
108) Chrysene-d12a	13.207	240	884555	40.00	ppm	-0.01
110) Acenaphthene-d10a	6.555	164	602060	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1115195	40.00	ppm	0.00
114) Chrysene-d12b	13.207	240	884555	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.409	112	93922	9.30	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.60%	
8) Phenol-d5	4.157	99	114060	9.70	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.40%	
25) Nitrobenzene-d5	4.755	82	83435	9.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.30%	
51) 2-Fluorobiphenyl	6.021	172	189394	9.91	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.82%	
73) 2,4,6-Tribromophenol	7.351	330	28009	9.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.54%	
86) Terphenyl-d14	11.054	244	175695	9.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.76%	
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.801	88	44809	10.39	ppm #	78
3) Pyridine	2.207	79	62011	7.55	ppm	96
4) N-Nitrosodimethylamine	2.148	74	51336	9.00	ppm	78
6) Indene	4.520	116	176002	9.37	ppm	99
7) Cumene	3.719	105	225760	9.56	ppm	98
9) Phenol	4.167	94	111487	9.29	ppm	83
10) Aniline	4.119	93	137896	9.93	ppm	99
11) bis(2-Chloroethyl)ether	4.151	93	78838	9.64	ppm	90
12) 2-Chlorophenol	4.205	128	107560	9.65	ppm	97
13) Decane	4.194	43	95547	9.22	ppm	97
14) 1,3-Dichlorobenzene	4.285	146	113957	9.48	ppm	99
15) 1,4-Dichlorobenzene	4.344	146	110737	9.79	ppm	90
16) Benzyl alcohol	4.472	108	45793	8.78	ppm	98
17) 1,2-Dichlorobenzene	4.456	146	102814	9.17	ppm	94
18) Acetophenone	4.638	105	123497	9.62	ppm	98
19) 2-Methylphenol	4.584	108	88760	9.51	ppm	94
20) 2,2'-oxybis(1-Chloropr...	4.536	121	27072	9.31	ppm #	76

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109745.D
Acq On : 13 Apr 2016 11:41 pm
Operator : sarad
Sample : ic5485-10
Misc : op92825,ez5485
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 09:12:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:11:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	4.696	108	93553	9.68	ppm		95
22) n-Nitroso-di-n-propyla...	4.638	70	61821	9.19	ppm		92
23) Hexachloroethane	4.696	201	33453	10.36	ppm		96
26) Nitrobenzene	4.766	77	84202	9.13	ppm		93
27) Quinoline	5.514	129	196687	9.22	ppm		98
28) Isophorone	4.926	82	148068	9.36	ppm		98
29) 2-Nitrophenol	4.996	139	52059	9.11	ppm		94
30) 2,4-Dimethylphenol	5.054	107	88278	9.90	ppm		94
31) Benzoic Acid	5.150	105	53056	7.82	ppm		97
32) bis(2-Chloroethoxy)met...	5.086	93	92463	9.37	ppm		99
33) 2,4-Dichlorophenol	5.188	162	79146	10.27	ppm		89
34) 2,6-Dichlorophenol	5.337	162	75224	9.93	ppm		96
35) 1,3,5-Trichlorobenzene	4.979	180	89623	10.55	ppm		95
36) 1,2,4-Trichlorobenzene	5.209	180	83302	10.35	ppm		93
37) 1,2,3-Trichlorobenzene	5.375	180	75509	9.67	ppm		85
38) Naphthalene	5.268	128	287267	9.25	ppm		98
39) 4-Chloroaniline	5.337	127	114653	9.41	ppm		95
40) 2,3-Dichloroaniline	5.979	161	92098	9.29	ppm		91
41) Caprolactam	5.583	55	37173	9.27	ppm		95
42) Hexachlorobutadiene	5.353	225	39183	10.96	ppm		97
43) 4-Chloro-3-methylphenol	5.711	107	76579	9.23	ppm	#	32
44) 2-Methylnaphthalene	5.754	141	171428	10.33	ppm		95
45) 1-Methylnaphthalene	5.824	141	175329	9.61	ppm		99
46) Dimethylnaphthalene	6.208	156	167293	9.47	ppm		96
48) Hexachlorocyclopentadiene	5.866	237	82798	21.51	ppm		97
49) 2,4,6-Trichlorophenol	5.979	196	52662	10.95	ppm		94
50) 2,4,5-Trichlorophenol	6.021	196	51898	9.61	ppm		91
52) 2-Chloronaphthalene	6.107	162	166925	9.76	ppm		97
53) Biphenyl	6.091	154	233260	9.80	ppm		98
54) 2-Nitroaniline	6.219	65	48402	10.55	ppm	#	68
55) Dimethylphthalate	6.342	163	185107	9.72	ppm		99
56) Acenaphthylene	6.438	152	294697	9.96	ppm		99
57) 2,6-Dinitrotoluene	6.395	165	43389	10.58	ppm		90
58) 3-Nitroaniline	6.566	138	50331	9.91	ppm		91
59) Acenaphthene	6.582	153	176954	9.97	ppm		97
60) 2,4-Dinitrophenol	6.641	184	31240	15.04	ppm		80
61) 4-Nitrophenol	6.796	109	23538	10.05	ppm	#	77
62) Dibenzofuran	6.737	168	241479	9.81	ppm		93
63) 2,4-Dinitrotoluene	6.753	165	56943	10.46	ppm		95
64) 2,3,4,6-Tetrachlorophenol	6.887	232	37998	8.80	ppm		85
65) Diethylphthalate	6.967	149	185356	9.40	ppm		96
66) Fluorene	7.074	166	205326	10.24	ppm		92
67) 4-Chlorophenyl-phenyle...	7.074	204	80965	9.65	ppm		92
68) 4-Nitroaniline	7.170	138	52497	10.56	ppm		97
70) 4,6-Dinitro-2-methylph...	7.159	198	26944	9.33	ppm		90
71) n-Nitrosodiphenylamine	7.218	169	142083	10.27	ppm		98
72) 1,2-Diphenylhydrazine	7.245	77	165524	10.00	ppm		95
74) 4-Bromophenyl-phenylether	7.629	248	45787	9.16	ppm		98
75) Hexachlorobenzene	7.699	284	53615	9.58	ppm		87
76) Pentachlorophenol	8.009	266	55326	18.46	ppm		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109745.D
Acq On : 13 Apr 2016 11:41 pm
Operator : sarad
Sample : ic5485-10
Misc : op92825,ez5485
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 09:12:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:11:50 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.249	178	265865	9.69	ppm	97
78)	Anthracene	8.324	178	280527	9.95	ppm	96
79)	Carbazole	8.623	167	257259	9.55	ppm	95
80)	Di-n-butylphthalate	9.211	149	325473	9.82	ppm	99
81)	Fluoranthene	10.231	202	269861	9.23	ppm	97
82)	Octadecane	8.067	57	115441	9.75	ppm	95
84)	Pyrene	10.648	202	284039	9.56	ppm	92
85)	Butyl stearate	12.395	56	74046	9.23	ppm	95
87)	Butylbenzylphthalate	12.192	149	133403	9.35	ppm	94
88)	Benzo[a]anthracene	13.180	228	237993	9.09	ppm	94
89)	3,3'-Dichlorobenzidine	13.287	252	85636	9.27	ppm	87
90)	Chrysene	13.255	228	234303	9.18	ppm	99
91)	bis(2-Ethylhexyl)phtha...	13.527	149	183442	9.18	ppm	97
93)	Di-n-octylphthalate	14.932	149	320172	9.52	ppm	97
94)	Benzo[b]fluoranthene	15.445	252	256650	9.21	ppm	99
95)	Benzo[k]fluoranthene	15.498	252	246331	10.05	ppm	98
96)	Benzo[a]pyrene	16.070	252	231324	9.32	ppm	92
97)	Indeno[1,2,3-cd]pyrene	18.105	276	234325	9.56	ppm	91
98)	Dibenz(a,h)acridine	17.747	279	218357	9.17	ppm	90
99)	Dibenz[a,h]anthracene	18.159	278	245089	9.46	ppm	92
100)	7,12-Dimethylbenz(a)an...	15.461	256	111687	8.69	ppm	93
101)	Benzo[g,h,i]perylene	18.527	276	241668	9.02	ppm	94

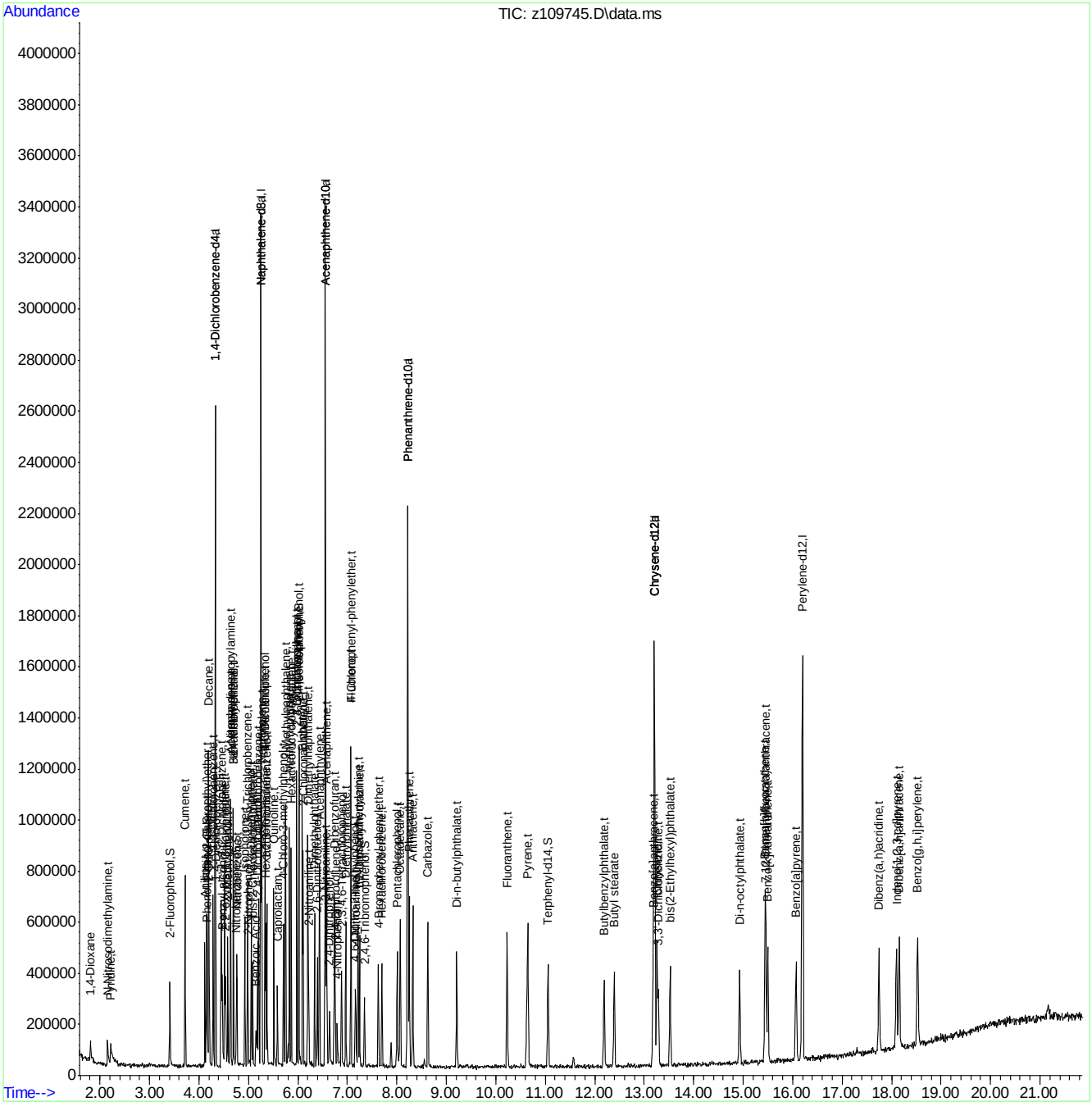
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109745.D
Acq On : 13 Apr 2016 11:41 pm
Operator : sarad
Sample : ic5485-10
Misc : op92825,ez5485
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 09:12:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:11:50 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109746.D
Acq On : 14 Apr 2016 12:12 am
Operator : sarad
Sample : ic5485-5
Misc : op92825,ez5485
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 09:15:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:12:30 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	284017	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1116459	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	607895	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	975683	40.00	ppm	0.00
83) Chrysene-d12	13.206	240	874619	40.00	ppm	0.00
92) Perylene-d12	16.198	264	881979	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	284017	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	975683	40.00	ppm	0.00
108) Chrysene-d12a	13.206	240	874619	40.00	ppm	0.00
110) Acenaphthene-d10a	6.555	164	607895	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1116459	40.00	ppm	0.00
114) Chrysene-d12b	13.206	240	874619	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.409	112	54296	5.63	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.26%	
8) Phenol-d5	4.157	99	63351	5.60	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.20%	
25) Nitrobenzene-d5	4.755	82	47757	5.30	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.60%	
51) 2-Fluorobiphenyl	6.021	172	113231	5.88	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.76%	
73) 2,4,6-Tribromophenol	7.346	330	15162	5.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.02%	
86) Terphenyl-d14	11.059	244	97949	5.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.70%	
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.806	88	22247	5.30	ppm	79
3) Pyridine	2.239	79	17967	2.41	ppm	75
4) N-Nitrosodimethylamine	2.159	74	28640	5.28	ppm #	60
6) Indene	4.520	116	99499	5.54	ppm	93
7) Cumene	3.719	105	129222	5.70	ppm	98
9) Phenol	4.162	94	65725	5.73	ppm	86
10) Aniline	4.119	93	71141	5.30	ppm	91
11) bis(2-Chloroethyl)ether	4.151	93	46362	5.90	ppm	88
12) 2-Chlorophenol	4.205	128	59546	5.56	ppm	94
13) Decane	4.194	43	55356	5.60	ppm	96
14) 1,3-Dichlorobenzene	4.285	146	66904	5.81	ppm	96
15) 1,4-Dichlorobenzene	4.344	146	63795	5.85	ppm	96
16) Benzyl alcohol	4.472	108	22539	4.56	ppm #	79
17) 1,2-Dichlorobenzene	4.461	146	59069	5.52	ppm	92
18) Acetophenone	4.637	105	69088	5.60	ppm	97
19) 2-Methylphenol	4.584	108	52289	5.84	ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.536	121	14987	5.39	ppm #	70

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109746.D
Acq On : 14 Apr 2016 12:12 am
Operator : sarad
Sample : ic5485-5
Misc : op92825,ez5485
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 09:15:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:12:30 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	4.696	108	54660	5.88	ppm		96
22) n-Nitroso-di-n-propyla...	4.637	70	37157	5.79	ppm		91
23) Hexachloroethane	4.696	201	19557	6.23	ppm		97
26) Nitrobenzene	4.766	77	49322	5.42	ppm		95
27) Quinoline	5.514	129	111484	5.29	ppm		96
28) Isophorone	4.926	82	86627	5.53	ppm		98
29) 2-Nitrophenol	4.995	139	29300	5.20	ppm		95
30) 2,4-Dimethylphenol	5.054	107	45403	5.10	ppm		92
31) Benzoic Acid	5.156	105	28219	4.34	ppm	#	65
32) bis(2-Chloroethoxy)met...	5.086	93	53350	5.46	ppm		96
33) 2,4-Dichlorophenol	5.188	162	42413	5.47	ppm		80
34) 2,6-Dichlorophenol	5.337	162	42574	5.62	ppm		87
35) 1,3,5-Trichlorobenzene	4.979	180	51317	5.98	ppm		90
36) 1,2,4-Trichlorobenzene	5.209	180	45130	5.57	ppm		94
37) 1,2,3-Trichlorobenzene	5.375	180	46698	6.01	ppm		89
38) Naphthalene	5.268	128	164883	5.37	ppm		97
39) 4-Chloroaniline	5.337	127	71708	5.94	ppm		94
40) 2,3-Dichloroaniline	5.978	161	53499	5.46	ppm		98
41) Caprolactam	5.578	55	20860	5.26	ppm		90
42) Hexachlorobutadiene	5.353	225	18446	5.07	ppm		90
43) 4-Chloro-3-methylphenol	5.711	107	45947	5.61	ppm	#	98
44) 2-Methylnaphthalene	5.754	141	99491	5.95	ppm		93
45) 1-Methylnaphthalene	5.823	141	101012	5.57	ppm		99
46) Dimethylnaphthalene	6.208	156	98399	5.61	ppm		94
48) Hexachlorocyclopentadiene	5.866	237	47205	11.99	ppm		97
49) 2,4,6-Trichlorophenol	5.978	196	28599	5.80	ppm		94
50) 2,4,5-Trichlorophenol	6.021	196	31017	5.73	ppm		97
52) 2-Chloronaphthalene	6.107	162	95605	5.56	ppm		98
53) Biphenyl	6.091	154	137244	5.73	ppm		98
54) 2-Nitroaniline	6.219	65	23014	4.92	ppm		88
55) Dimethylphthalate	6.342	163	108091	5.65	ppm		99
56) Acenaphthylene	6.438	152	173156	5.80	ppm		98
57) 2,6-Dinitrotoluene	6.395	165	23361	5.59	ppm		86
58) 3-Nitroaniline	6.566	138	26425	5.16	ppm	#	63
59) Acenaphthene	6.582	153	101294	5.65	ppm		94
60) 2,4-Dinitrophenol	6.641	184	14364	7.20	ppm		71
61) 4-Nitrophenol	6.801	109	12468	5.27	ppm		87
62) Dibenzofuran	6.737	168	140045	5.65	ppm		90
63) 2,4-Dinitrotoluene	6.753	165	26788	4.84	ppm		97
64) 2,3,4,6-Tetrachlorophenol	6.887	232	24451	5.72	ppm		81
65) Diethylphthalate	6.967	149	112027	5.68	ppm		96
66) Fluorene	7.074	166	118471	5.83	ppm		98
67) 4-Chlorophenyl-phenyle...	7.074	204	47232	5.61	ppm		86
68) 4-Nitroaniline	7.164	138	27334	5.40	ppm		90
70) 4,6-Dinitro-2-methylph...	7.159	198	12303	4.26	ppm		84
71) n-Nitrosodiphenylamine	7.212	169	77088	5.46	ppm		96
72) 1,2-Diphenylhydrazine	7.244	77	94137	5.60	ppm		96
74) 4-Bromophenyl-phenylether	7.629	248	28085	5.62	ppm		95
75) Hexachlorobenzene	7.699	284	31020	5.50	ppm		93
76) Pentachlorophenol	8.008	266	29034	9.67	ppm		92

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

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Operator : sarad
Sample : ic5485-5
Misc : op92825,ez5485
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 09:15:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:12:30 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.249	178	155211	5.60	ppm	99
78)	Anthracene	8.324	178	155570	5.44	ppm	93
79)	Carbazole	8.623	167	148717	5.48	ppm	92
80)	Di-n-butylphthalate	9.210	149	178991	5.34	ppm	97
81)	Fluoranthene	10.231	202	149544	5.10	ppm	99
82)	Octadecane	8.067	57	68158	5.70	ppm	95
84)	Pyrene	10.653	202	168604	5.78	ppm	99
85)	Butyl stearate	12.389	56	43458	5.55	ppm	90
87)	Butylbenzylphthalate	12.191	149	73068	5.24	ppm	84
88)	Benzo[a]anthracene	13.180	228	134944	5.29	ppm	95
89)	3,3'-Dichlorobenzidine	13.287	252	53888	5.97	ppm	77
90)	Chrysene	13.255	228	134395	5.40	ppm	98
91)	bis(2-Ethylhexyl)phtha...	13.527	149	108596	5.57	ppm	96
93)	Di-n-octylphthalate	14.927	149	175392	5.23	ppm	100
94)	Benzo[b]fluoranthene	15.445	252	151008	5.46	ppm	97
95)	Benzo[k]fluoranthene	15.498	252	141212	5.73	ppm	98
96)	Benzo[a]pyrene	16.070	252	132325	5.36	ppm	94
97)	Indeno[1,2,3-cd]pyrene	18.100	276	136824	5.59	ppm	93
98)	Dibenz(a,h)acridine	17.742	279	118670	5.03	ppm	89
99)	Dibenz[a,h]anthracene	18.153	278	144292	5.59	ppm	97
100)	7,12-Dimethylbenz(a)an...	15.456	256	68000	5.38	ppm	94
101)	Benzo[g,h,i]perylene	18.527	276	144367	5.45	ppm	94

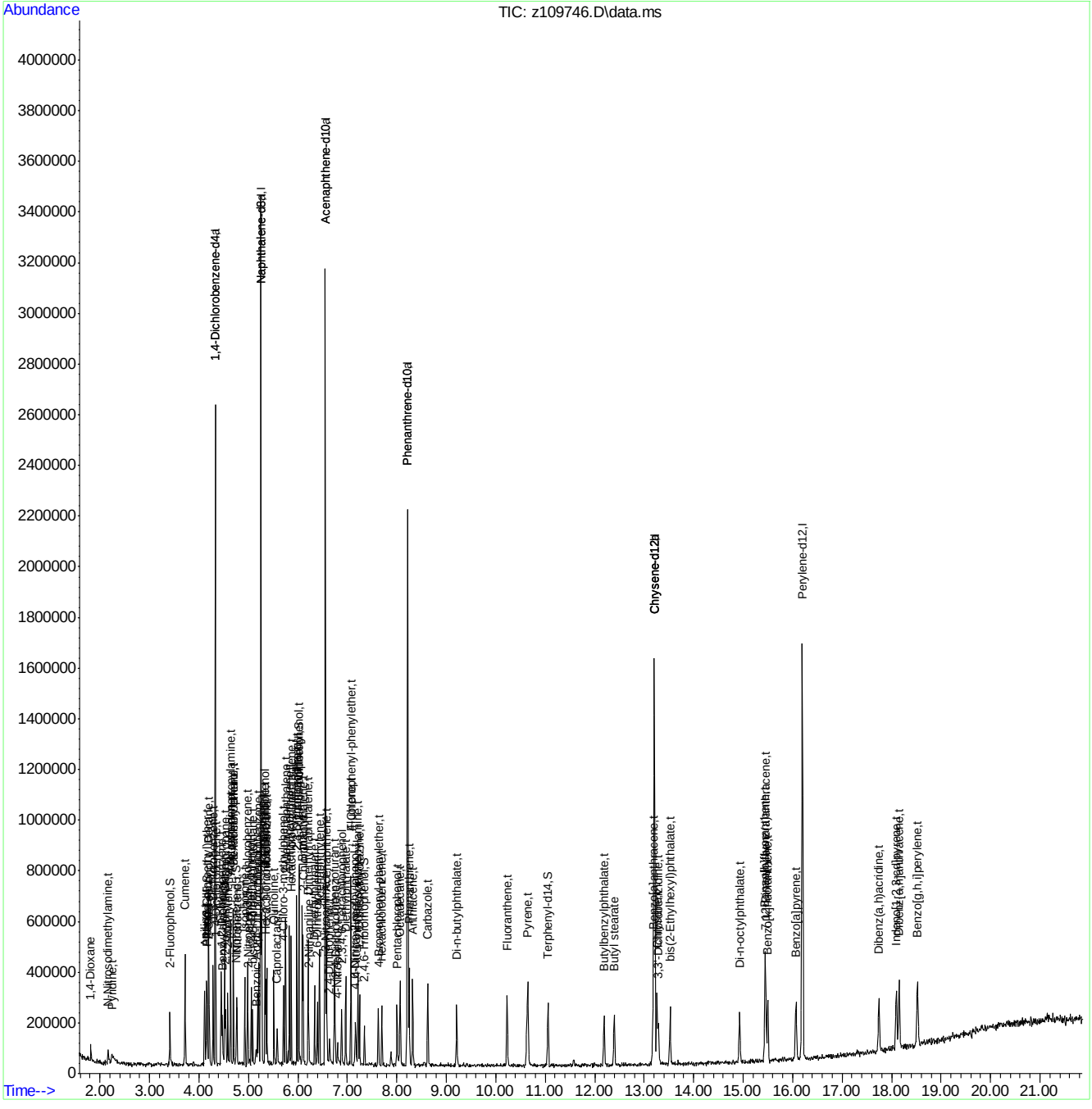
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109746.D
Acq On : 14 Apr 2016 12:12 am
Operator : sarad
Sample : ic5485-5
Misc : op92825,ez5485
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 09:15:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:12:30 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109747.D
Acq On : 14 Apr 2016 12:44 am
Operator : sarad
Sample : ic5485-1
Misc : op92825,ez5485
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 14 08:44:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:43:41 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	297751	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1125663	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	606870	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	963905	40.00	ppm	0.00
83) Chrysene-d12	13.206	240	875954	40.00	ppm	-0.01
92) Perylene-d12	16.198	264	873471	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.328	152	297751	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	963905	40.00	ppm	0.00
108) Chrysene-d12a	13.206	240	875954	40.00	ppm	-0.01
110) Acenaphthene-d10a	6.555	164	606870	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1125663	40.00	ppm	0.00
114) Chrysene-d12b	13.206	240	875954	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.414	112	10312	0.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.88%	
8) Phenol-d5	4.157	99	12742	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
25) Nitrobenzene-d5	4.755	82	10558	1.06	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.12%	
51) 2-Fluorobiphenyl	6.021	172	22896	1.10	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.20%	
73) 2,4,6-Tribromophenol	7.346	330	3813	1.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.48%	
86) Terphenyl-d14	11.054	244	19910	0.95	ppm	-0.01
Spiked Amount 50.000			Recovery	=	1.90%	
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.827	88	4004	0.72	ppm	# 65
4) N-Nitrosodimethylamine	2.191	74	4714	0.61	ppm	# 52
6) Indene	4.520	116	21359	0.98	ppm	100
7) Cumene	3.719	105	26419	1.04	ppm	98
9) Phenol	4.167	94	13297	0.99	ppm	91
10) Aniline	4.125	93	14916	0.93	ppm	95
11) bis(2-Chloroethyl)ether	4.157	93	9531	1.04	ppm	82
12) 2-Chlorophenol	4.210	128	13577	1.02	ppm	83
13) Decane	4.194	43	13480	1.15	ppm	83
14) 1,3-Dichlorobenzene	4.285	146	13195	0.94	ppm	# 62
15) 1,4-Dichlorobenzene	4.338	146	13072	1.12	ppm	86
16) Benzyl alcohol	4.477	108	5415	1.02	ppm	# 66
17) 1,2-Dichlorobenzene	4.461	146	13506	1.05	ppm	95
18) Acetophenone	4.643	105	12986	0.86	ppm	86
19) 2-Methylphenol	4.584	108	10640	1.06	ppm	71
20) 2,2'-oxybis(1-Chloropr...	4.541	121	3216	0.86	ppm	# 74
21) 3&4-Methylphenol	4.696	108	11147	1.03	ppm	95

SGS ACCUTEST JC19423

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Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109747.D
Acq On : 14 Apr 2016 12:44 am
Operator : sarad
Sample : ic5485-1
Misc : op92825,ez5485
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 14 08:44:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:43:41 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.638	70	7843	0.98	ppm		84
23) Hexachloroethane	4.696	201	3327	0.94	ppm		97
26) Nitrobenzene	4.766	77	10741	0.99	ppm		99
27) Quinoline	5.519	129	24206	1.04	ppm		94
28) Isophorone	4.926	82	16753	0.98	ppm		89
29) 2-Nitrophenol	4.995	139	6325	1.03	ppm		92
30) 2,4-Dimethylphenol	5.060	107	9134	0.93	ppm		85
32) bis(2-Chloroethoxy)met...	5.086	93	12237	1.18	ppm		90
33) 2,4-Dichlorophenol	5.193	162	7721	0.96	ppm		86
34) 2,6-Dichlorophenol	5.337	162	8030	1.01	ppm		64
35) 1,3,5-Trichlorobenzene	4.979	180	8732	0.92	ppm	#	63
36) 1,2,4-Trichlorobenzene	5.209	180	8994	0.99	ppm		80
37) 1,2,3-Trichlorobenzene	5.375	180	9070	1.07	ppm		96
38) Naphthalene	5.268	128	37207	1.10	ppm		75
39) 4-Chloroaniline	5.337	127	15213	1.09	ppm		89
40) 2,3-Dichloroaniline	5.984	161	11685	1.04	ppm		84
41) Caprolactam	5.594	55	3972	0.84	ppm	#	62
42) Hexachlorobutadiene	5.353	225	3211	0.78	ppm	#	57
43) 4-Chloro-3-methylphenol	5.711	107	8846	1.03	ppm		84
44) 2-Methylnaphthalene	5.754	141	17834	1.00	ppm	#	56
45) 1-Methylnaphthalene	5.823	141	23616	1.27	ppm		85
46) Dimethylnaphthalene	6.208	156	19372	0.99	ppm		80
48) Hexachlorocyclopentadiene	5.866	237	6815	1.81	ppm		99
49) 2,4,6-Trichlorophenol	5.984	196	4953	0.95	ppm		93
50) 2,4,5-Trichlorophenol	6.027	196	5917	0.92	ppm		93
52) 2-Chloronaphthalene	6.107	162	20330	0.99	ppm		87
53) Biphenyl	6.091	154	28688	1.07	ppm		96
54) 2-Nitroaniline	6.224	65	4071	0.73	ppm		94
55) Dimethylphthalate	6.342	163	20502	0.96	ppm		76
56) Acenaphthylene	6.433	152	33365	1.04	ppm		84
57) 2,6-Dinitrotoluene	6.395	165	4690	1.24	ppm		76
58) 3-Nitroaniline	6.571	138	5464	1.01	ppm		67
59) Acenaphthene	6.582	153	20219	1.02	ppm		92
61) 4-Nitrophenol	6.812	109	2657	0.99	ppm	#	73
62) Dibenzofuran	6.737	168	28678	1.05	ppm		94
63) 2,4-Dinitrotoluene	6.753	165	4721	0.71	ppm		66
64) 2,3,4,6-Tetrachlorophenol	6.887	232	4883	1.03	ppm		82
65) Diethylphthalate	6.967	149	24202	1.09	ppm		91
66) Fluorene	7.074	166	23953	1.06	ppm		87
67) 4-Chlorophenyl-phenyle...	7.074	204	9161	0.94	ppm		76
68) 4-Nitroaniline	7.170	138	4534	0.89	ppm		88
71) n-Nitrosodiphenylamine	7.212	169	13719	0.81	ppm		83
72) 1,2-Diphenylhydrazine	7.245	77	18604	1.02	ppm		75
74) 4-Bromophenyl-phenylether	7.629	248	5793	1.07	ppm	#	72
75) Hexachlorobenzene	7.699	284	7078	1.23	ppm		67
76) Pentachlorophenol	8.014	266	5692	2.11	ppm		88
77) Phenanthrene	8.249	178	31609	1.07	ppm		97
78) Anthracene	8.318	178	30520	0.96	ppm		99
79) Carbazole	8.623	167	27901	0.92	ppm		72
80) Di-n-butylphthalate	9.210	149	33667	0.91	ppm		95

SGS ACCUTEST JC19423

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Data File : z109747.D
Acq On : 14 Apr 2016 12:44 am
Operator : sarad
Sample : ic5485-1
Misc : op92825,ez5485
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 14 08:44:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:43:41 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
81) Fluoranthene	10.226	202	36103	1.17 ppm	98
82) Octadecane	8.067	57	12845	0.92 ppm	90
84) Pyrene	10.653	202	31822	0.94 ppm	88
85) Butyl stearate	12.394	56	6899	0.78 ppm	78
87) Butylbenzylphthalate	12.181	149	13751	0.93 ppm	99
88) Benzo[a]anthracene	13.180	228	28116	1.00 ppm	74
89) 3,3'-Dichlorobenzidine	13.292	252	9141	0.92 ppm	88
90) Chrysene	13.255	228	27478	0.92 ppm	84
91) bis(2-Ethylhexyl)phtha...	13.527	149	18855	0.89 ppm	91
93) Di-n-octylphthalate	14.927	149	30031	0.86 ppm	85
94) Benzo[b]fluoranthene	15.445	252	32996	1.13 ppm	71
95) Benzo[k]fluoranthene	15.498	252	26609	0.98 ppm	67
96) Benzo[a]pyrene	16.070	252	27746	1.06 ppm	69
97) Indeno[1,2,3-cd]pyrene	18.095	276	27336	1.04 ppm	65
98) Dibenz(a,h)acridine	17.747	279	27886	1.06 ppm	88
99) Dibenz[a,h]anthracene	18.159	278	27334	0.95 ppm	95
100) 7,12-Dimethylbenz(a)an...	15.450	256	15853	1.16 ppm	83
101) Benzo[g,h,i]perylene	18.527	276	32946	1.13 ppm	74

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

7.6.122

7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

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Data File : z109747.D
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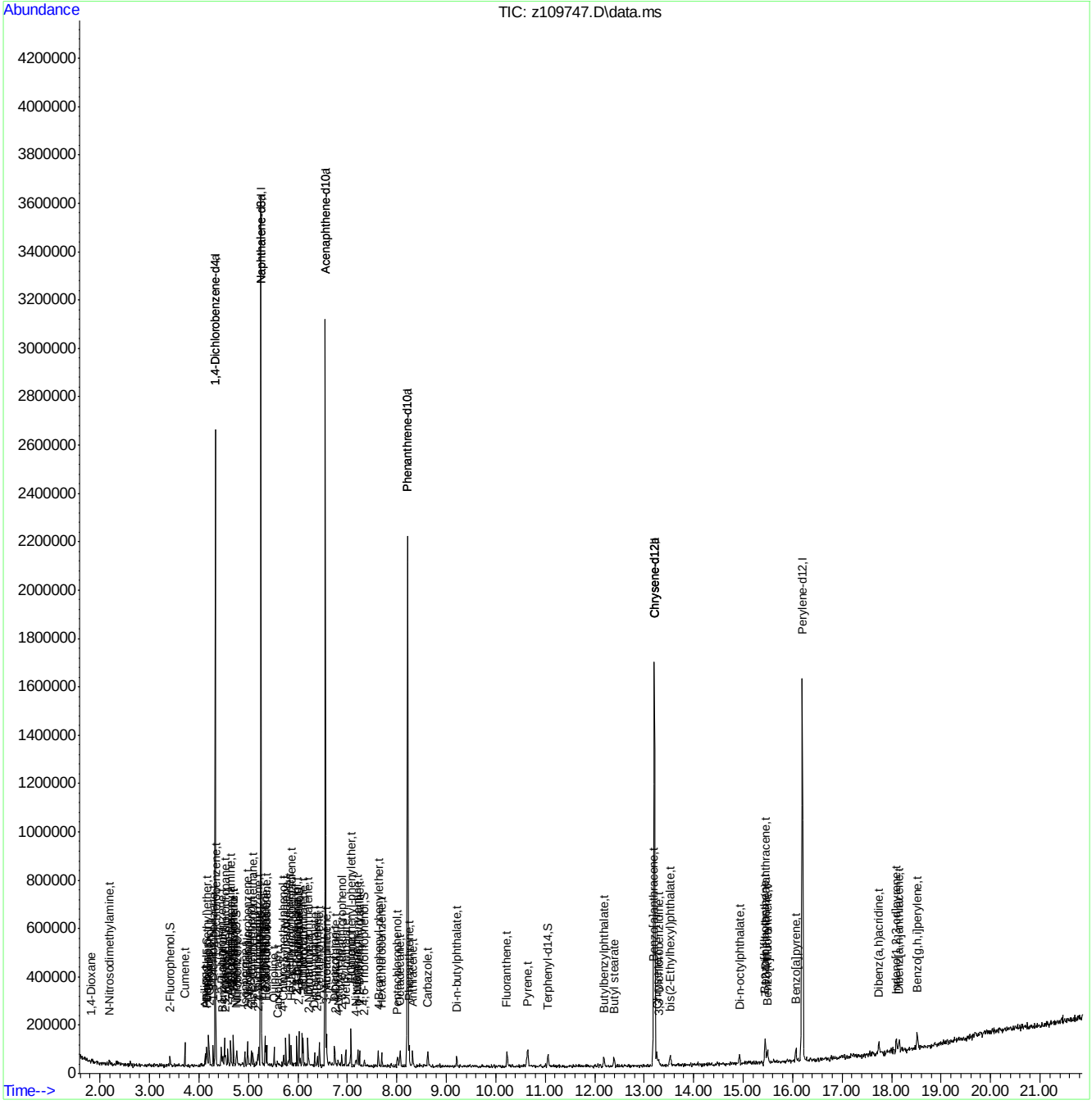
Operator : sarad
Sample : ic5485-1
Misc : op92825,ez5485
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 14 08:44:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 08:43:41 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 08:44:46 2016 RTE Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109748.D
Acq On : 14 Apr 2016 1:15 am
Operator : sarad
Sample : icc5485-50
Misc : op92825,ez5485
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 14 09:21:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:16:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	259405	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1036556	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	583842	40.00	ppm	0.00
69) Phenanthrene-d10	8.222	188	914506	40.00	ppm	0.00
83) Chrysene-d12	13.212	240	832316	40.00	ppm	0.00
92) Perylene-d12	16.198	264	833372	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	259405	40.00	ppm	0.00
104) Phenanthrene-d10a	8.222	188	914506	40.00	ppm	0.00
108) Chrysene-d12a	13.212	240	832316	40.00	ppm	0.00
110) Acenaphthene-d10a	6.555	164	583842	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1036556	40.00	ppm	0.00
114) Chrysene-d12b	13.212	240	832316	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.404	112	442858	49.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	98.72%	
8) Phenol-d5	4.157	99	519365	49.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	98.82%	
25) Nitrobenzene-d5	4.755	82	394934	46.84	ppm	0.00
Spiked Amount 50.000			Recovery	=	93.68%	
51) 2-Fluorobiphenyl	6.021	172	847432	44.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	89.36%	
73) 2,4,6-Tribromophenol	7.351	330	130600	46.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	92.00%	
86) Terphenyl-d14	11.064	244	831872	47.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	94.48%	
105) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.790	88	186362	48.19	ppm	98
3) Pyridine	2.159	79	291347	47.74	ppm	80
4) N-Nitrosodimethylamine	2.121	74	269489	53.95	ppm	85
6) Indene	4.520	116	763287	45.81	ppm	90
7) Cumene	3.713	105	1020676	48.33	ppm	97
9) Phenol	4.162	94	518347	48.46	ppm	65
10) Aniline	4.119	93	577881	46.76	ppm	92
11) bis(2-Chloroethyl)ether	4.151	93	340911	46.29	ppm	96
12) 2-Chlorophenol	4.205	128	449814	45.23	ppm	97
13) Decane	4.194	43	405555	44.13	ppm	97
14) 1,3-Dichlorobenzene	4.285	146	507118	47.10	ppm	98
15) 1,4-Dichlorobenzene	4.344	146	487715	47.84	ppm	91
16) Benzyl alcohol	4.472	108	238488	53.50	ppm #	80
17) 1,2-Dichlorobenzene	4.456	146	459596	46.35	ppm	97
18) Acetophenone	4.638	105	562912	49.12	ppm	100
19) 2-Methylphenol	4.584	108	400551	47.83	ppm	92
20) 2,2'-oxybis(1-Chloropr...	4.536	121	122301	47.66	ppm #	81

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109748.D
Acq On : 14 Apr 2016 1:15 am
Operator : sarad
Sample : icc5485-50
Misc : op92825,ez5485
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 14 09:21:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:16:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21)	3&4-Methylphenol	4.696	108	429004	49.29	ppm		93
22)	n-Nitroso-di-n-propyla...	4.643	70	268460	44.79	ppm		92
23)	Hexachloroethane	4.696	201	142933	48.15	ppm		99
26)	Nitrobenzene	4.766	77	380772	44.55	ppm		99
27)	Quinoline	5.519	129	938814	47.56	ppm		95
28)	Isophorone	4.926	82	704071	47.69	ppm		96
29)	2-Nitrophenol	4.995	139	253181	48.10	ppm		94
30)	2,4-Dimethylphenol	5.060	107	392849	47.35	ppm		89
31)	Benzoic Acid	5.188	105	310550	52.63	ppm	#	59
32)	bis(2-Chloroethoxy)met...	5.092	93	422405	45.92	ppm		97
33)	2,4-Dichlorophenol	5.188	162	350495	48.06	ppm		94
34)	2,6-Dichlorophenol	5.337	162	335973	46.95	ppm		88
35)	1,3,5-Trichlorobenzene	4.979	180	377990	46.15	ppm		82
36)	1,2,4-Trichlorobenzene	5.215	180	347973	45.51	ppm		95
37)	1,2,3-Trichlorobenzene	5.375	180	342697	46.16	ppm		95
38)	Naphthalene	5.268	128	1299196	45.09	ppm		98
39)	4-Chloroaniline	5.337	127	501550	43.56	ppm		93
40)	2,3-Dichloroaniline	5.984	161	417289	45.26	ppm		95
41)	Caprolactam	5.604	55	177933	47.97	ppm		89
42)	Hexachlorobutadiene	5.353	225	159458	47.14	ppm		93
43)	4-Chloro-3-methylphenol	5.717	107	368999	47.66	ppm		94
44)	2-Methylnaphthalene	5.759	141	758671	47.60	ppm		96
45)	1-Methylnaphthalene	5.829	141	791172	46.21	ppm		96
46)	Dimethylnaphthalene	6.208	156	760961	45.96	ppm		90
48)	Hexachlorocyclopentadiene	5.866	237	391861	100.79	ppm		95
49)	2,4,6-Trichlorophenol	5.984	196	232819	48.05	ppm		93
50)	2,4,5-Trichlorophenol	6.027	196	230381	43.38	ppm		92
52)	2-Chloronaphthalene	6.107	162	745049	44.40	ppm		96
53)	Biphenyl	6.091	154	1054336	44.91	ppm		100
54)	2-Nitroaniline	6.224	65	215988	48.21	ppm		85
55)	Dimethylphthalate	6.342	163	877405	46.87	ppm		100
56)	Acenaphthylene	6.438	152	1360087	46.37	ppm		98
57)	2,6-Dinitrotoluene	6.401	165	199769	48.94	ppm		98
58)	3-Nitroaniline	6.571	138	239044	48.39	ppm		75
59)	Acenaphthene	6.582	153	819091	46.73	ppm		96
60)	2,4-Dinitrophenol	6.641	184	219635	120.31	ppm		94
61)	4-Nitrophenol	6.796	109	104341	45.54	ppm		84
62)	Dibenzofuran	6.742	168	1121810	46.29	ppm		96
63)	2,4-Dinitrotoluene	6.753	165	265589	50.17	ppm		91
64)	2,3,4,6-Tetrachlorophenol	6.887	232	192156	45.87	ppm		88
65)	Diethylphthalate	6.972	149	871381	45.16	ppm		96
66)	Fluorene	7.074	166	909492	45.50	ppm		97
67)	4-Chlorophenyl-phenyle...	7.074	204	380047	46.19	ppm		90
68)	4-Nitroaniline	7.180	138	247482	50.30	ppm		95
70)	4,6-Dinitro-2-methylph...	7.164	198	159486	60.36	ppm		72
71)	n-Nitrosodiphenylamine	7.218	169	628575	46.91	ppm		96
72)	1,2-Diphenylhydrazine	7.250	77	752188	46.96	ppm		96
74)	4-Bromophenyl-phenylether	7.629	248	228349	47.87	ppm		89
75)	Hexachlorobenzene	7.704	284	251275	46.86	ppm		91
76)	Pentachlorophenol	8.008	266	298466	106.55	ppm		95

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109748.D
Acq On : 14 Apr 2016 1:15 am
Operator : sarad
Sample : icc5485-50
Misc : op92825,ez5485
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 14 09:21:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:16:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.254	178	1222719	46.29	ppm	96
78)	Anthracene	8.329	178	1284080	47.30	ppm	94
79)	Carbazole	8.628	167	1261391	48.93	ppm	93
80)	Di-n-butylphthalate	9.216	149	1548820	48.80	ppm	99
81)	Fluoranthene	10.236	202	1286782	46.71	ppm	96
82)	Octadecane	8.067	57	536072	46.87	ppm	93
84)	Pyrene	10.658	202	1293158	45.56	ppm	94
85)	Butyl stearate	12.400	56	386003	51.00	ppm	96
87)	Butylbenzylphthalate	12.197	149	678128	50.72	ppm	92
88)	Benzo[a]anthracene	13.190	228	1162286	47.52	ppm	99
89)	3,3'-Dichlorobenzidine	13.292	252	422804	47.92	ppm	81
90)	Chrysene	13.271	228	1107093	46.21	ppm	99
91)	bis(2-Ethylhexyl)phtha...	13.527	149	943027	50.03	ppm	91
93)	Di-n-octylphthalate	14.932	149	1684295	52.82	ppm	96
94)	Benzo[b]fluoranthene	15.456	252	1256978	47.48	ppm	97
95)	Benzo[k]fluoranthene	15.520	252	1124283	47.28	ppm	96
96)	Benzo[a]pyrene	16.086	252	1123567	47.71	ppm	97
97)	Indeno[1,2,3-cd]pyrene	18.121	276	1134152	48.24	ppm	94
98)	Dibenz(a,h)acridine	17.758	279	1051782	47.11	ppm	95
99)	Dibenz[a,h]anthracene	18.175	278	1174843	47.37	ppm	96
100)	7,12-Dimethylbenz(a)an...	15.472	256	561714	46.52	ppm	91
101)	Benzo[g,h,i]perylene	18.549	276	1188606	46.88	ppm	96

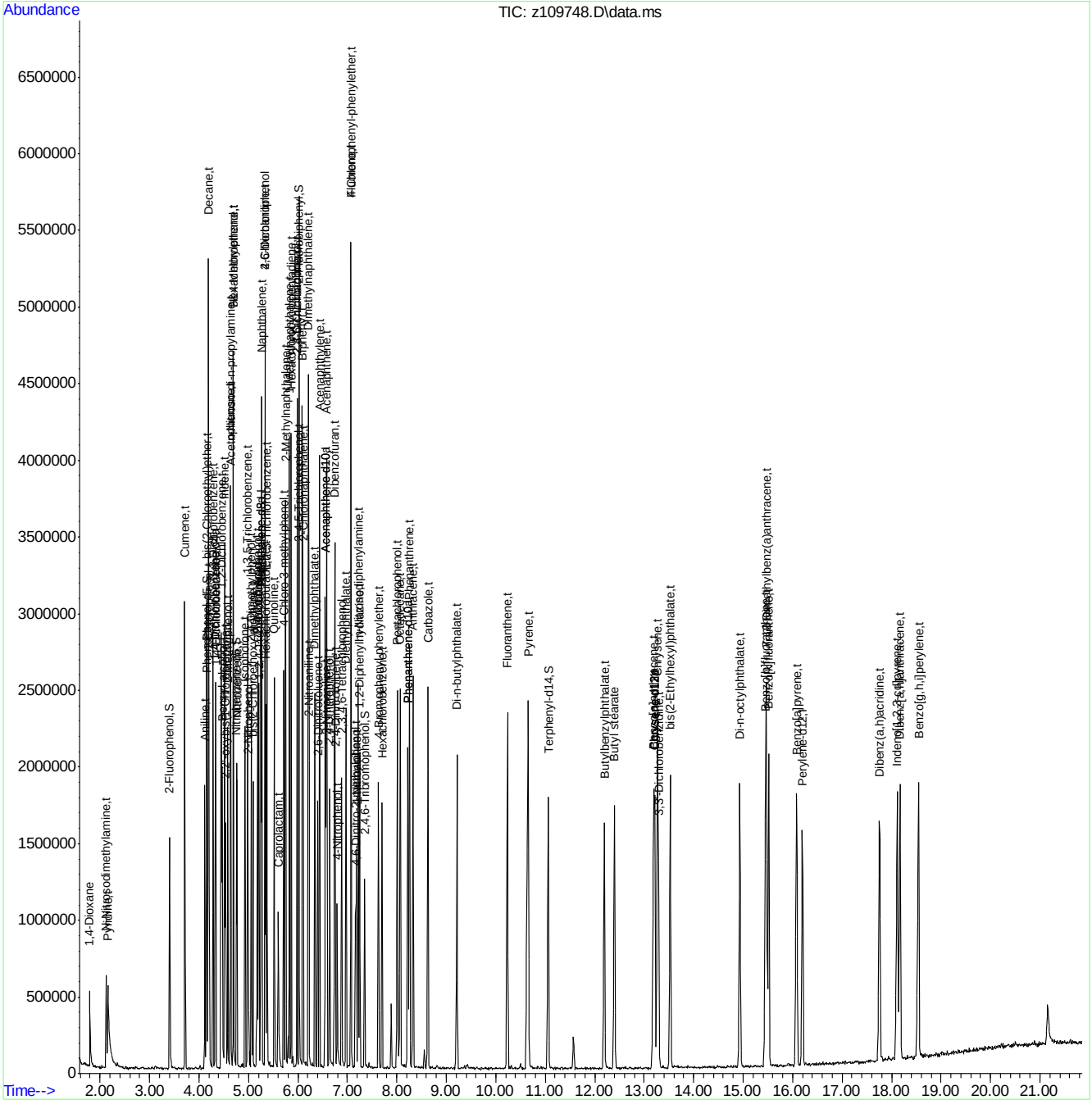
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109748.D
Acq On : 14 Apr 2016 1:15 am
Operator : sarad
Sample : icc5485-50
Misc : op92825,ez5485
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 14 09:21:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:16:01 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 09:25:43 2016 RTE Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109750.D
Acq On : 14 Apr 2016 1:54 am
Operator : sarad
Sample : ic5486-100
Misc : op92825,ez5486
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 09:58:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	292127	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1202462	40.00	ppm	0.00
47) Acenaphthene-d10	6.556	164	572164	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	966486	40.00	ppm	0.00
83) Chrysene-d12	13.201	240	914631	40.00	ppm	-0.01
92) Perylene-d12	16.198	264	917348	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	292127	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	966486	40.00	ppm	0.00
108) Chrysene-d12a	13.201	240	914631	40.00	ppm	0.00
110) Acenaphthene-d10a	6.556	164	572164	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1202462	40.00	ppm	0.00
114) Chrysene-d12b	13.201	240	914631	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	10.130	57	717247	99.92	ppm	0.00
Spiked Amount 50.000			Recovery = 199.84%			
106) o-terphenyl	8.831	230	1116394	99.92	ppm	0.00
Spiked Amount 50.000			Recovery = 199.84%			
Target Compounds						Qvalue
103) Benzaldehyde	4.018	105	551747	100.28	ppm	100
107) Atrazine	7.896	215	217894	100.01	ppm	100
109) Benzidine	10.632	184	828919	100.76	ppm	100
111) 1,2,4,5-Tetrachloroben...	5.872	216	649070	100.00	ppm	100
113) Hydroquinone	5.642	110	930028	104.50	ppm	100

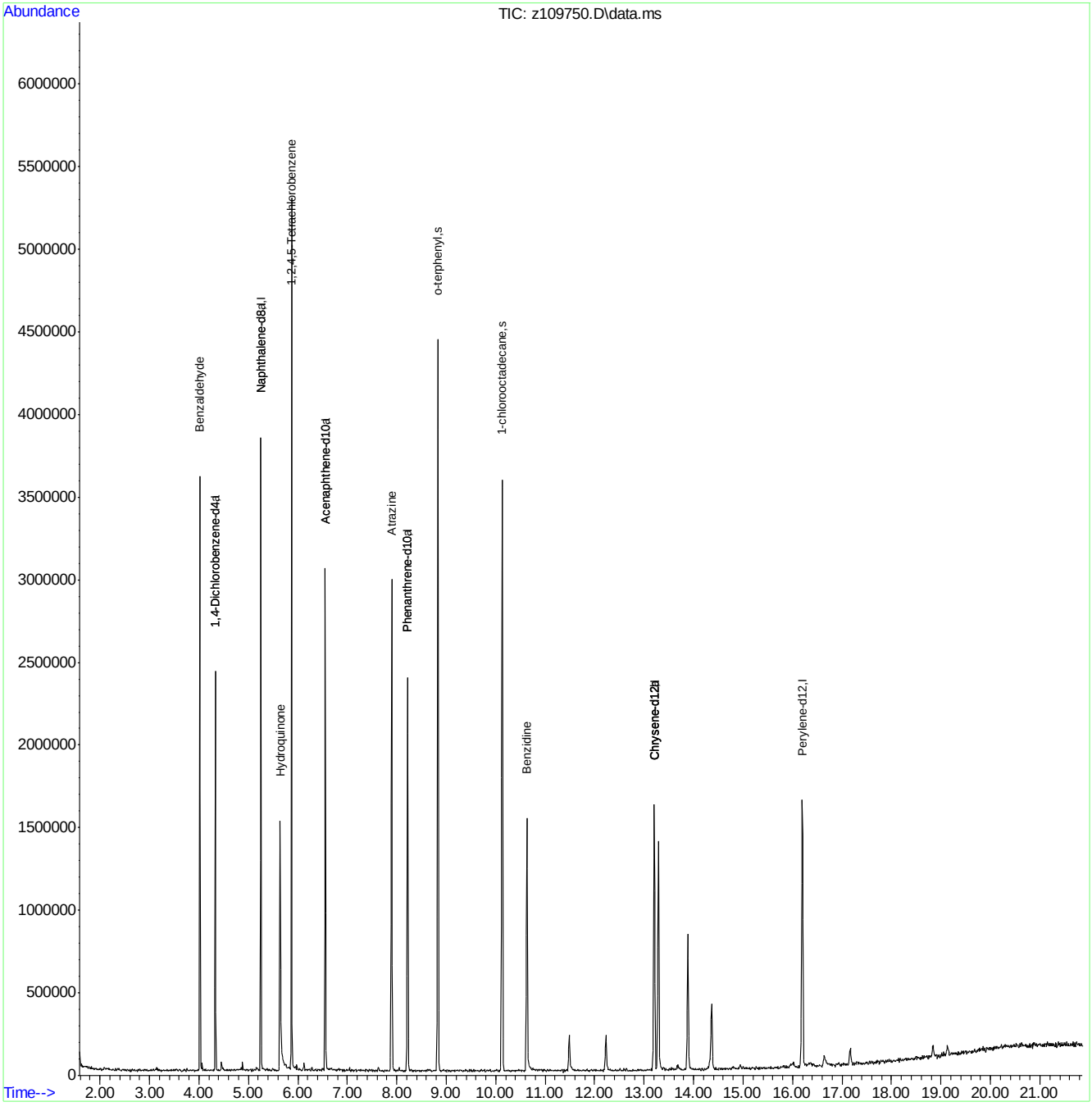
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109750.D
Acq On : 14 Apr 2016 1:54 am
Operator : sarad
Sample : ic5486-100
Misc : op92825,ez5486
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 09:58:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 09:58:27 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109751.D
Acq On : 14 Apr 2016 2:25 am
Operator : sarad
Sample : ic5486-80
Misc : op92825,ez5486
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 09:59:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	301730	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1195479	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	574041	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	972804	40.00	ppm	0.00
83) Chrysene-d12	13.201	240	915412	40.00	ppm	-0.01
92) Perylene-d12	16.198	264	929031	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	301730	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	972804	40.00	ppm	0.00
108) Chrysene-d12a	13.201	240	915412	40.00	ppm	0.00
110) Acenaphthene-d10a	6.555	164	574041	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1195479	40.00	ppm	0.00
114) Chrysene-d12b	13.201	240	915412	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	10.129	57	578872	80.12	ppm	0.00
Spiked Amount 50.000			Recovery = 160.24%			
106) o-terphenyl	8.831	230	927608	82.48	ppm	0.00
Spiked Amount 50.000			Recovery = 164.96%			
Target Compounds						Qvalue
103) Benzaldehyde	4.018	105	555248	97.70	ppm	96
107) Atrazine	7.896	215	171883	78.38	ppm	98
109) Benzidine	10.631	184	750698	91.18	ppm	96
111) 1,2,4,5-Tetrachloroben...	5.871	216	528921	81.22	ppm	97
113) Hydroquinone	5.636	110	686435	77.58	ppm	99

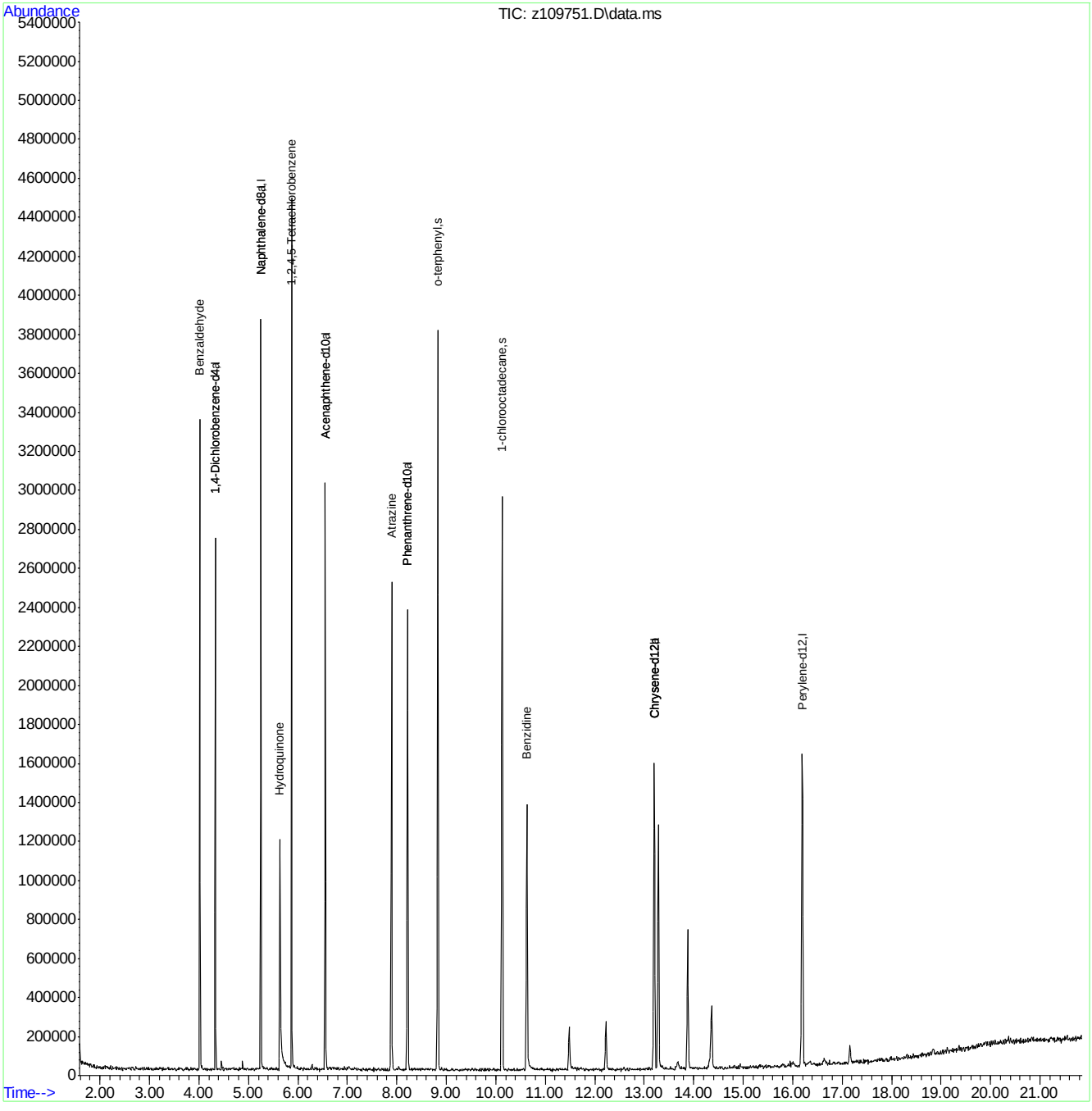
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109751.D
Acq On : 14 Apr 2016 2:25 am
Operator : sarad
Sample : ic5486-80
Misc : op92825,ez5486
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 09:59:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 09:59:41 2016 RTE

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109752.D
Acq On : 14 Apr 2016 2:56 am
Operator : sarad
Sample : ic5486-25
Misc : op92825,ez5486
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 10:02:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	300514	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1217462	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	584904	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	1037494	40.00	ppm	0.00
83) Chrysene-d12	13.201	240	976728	40.00	ppm	-0.01
92) Perylene-d12	16.198	264	1029686	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	300514	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	1037494	40.00	ppm	0.00
108) Chrysene-d12a	13.201	240	976728	40.00	ppm	0.00
110) Acenaphthene-d10a	6.550	164	584904	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1217462	40.00	ppm	0.00
114) Chrysene-d12b	13.201	240	976728	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	10.124	57	200835	26.06	ppm	0.00
Spiked Amount 50.000			Recovery = 52.12%			
106) o-terphenyl	8.826	230	327305	27.29	ppm	0.00
Spiked Amount 50.000			Recovery = 54.58%			
Target Compounds						Qvalue
103) Benzaldehyde	4.018	105	200118	35.36	ppm	95
107) Atrazine	7.886	215	61261	26.19	ppm	97
109) Benzidine	10.626	184	346987	39.50	ppm	95
111) 1,2,4,5-Tetrachloroben...	5.872	216	187678	28.29	ppm	95
113) Hydroquinone	5.631	110	217914	24.18	ppm	97

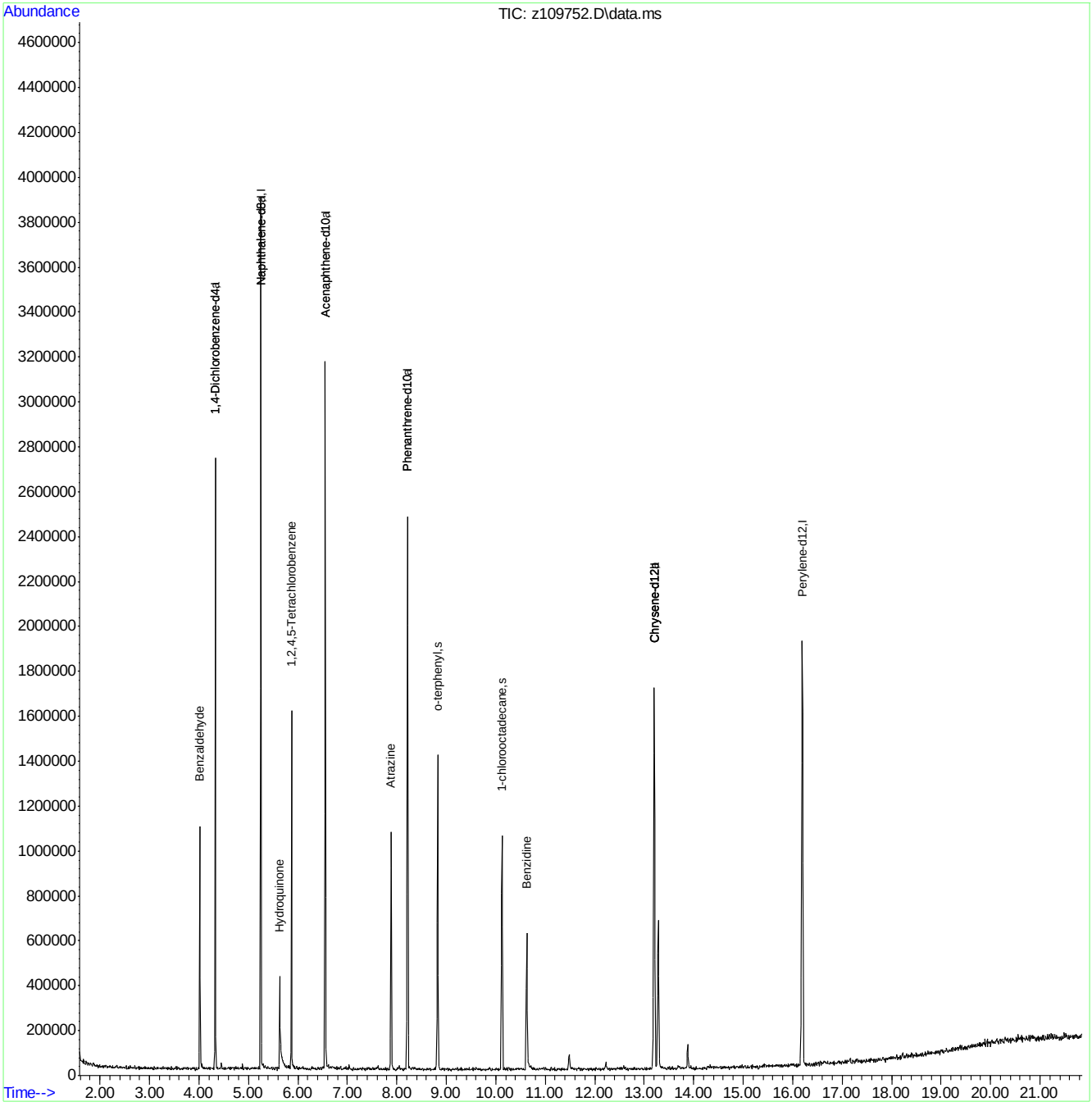
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109752.D
Acq On : 14 Apr 2016 2:56 am
Operator : sarad
Sample : ic5486-25
Misc : op92825,ez5486
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 10:02:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 10:02:48 2016 RTE

Page: 2

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109753.D
Acq On : 14 Apr 2016 3:27 am
Operator : sarad
Sample : ic5486-10
Misc : op92825,ez5486
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 14 10:03:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	311373	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1244793	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	608850	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	1079818	40.00	ppm	0.00
83) Chrysene-d12	13.206	240	1012103	40.00	ppm	0.00
92) Perylene-d12	16.198	264	1065156	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	311373	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	1079818	40.00	ppm	0.00
108) Chrysene-d12a	13.206	240	1012103	40.00	ppm	0.00
110) Acenaphthene-d10a	6.555	164	608850	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1244793	40.00	ppm	0.00
114) Chrysene-d12b	13.206	240	1012103	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	10.124	57	81354	10.14	ppm	0.00
Spiked Amount 50.000			Recovery = 20.28%			
106) o-terphenyl	8.826	230	131231	10.51	ppm	0.00
Spiked Amount 50.000			Recovery = 21.02%			
Target Compounds						Qvalue
103) Benzaldehyde	4.018	105	84990	14.49	ppm	96
107) Atrazine	7.880	215	26090	10.72	ppm #	82
109) Benzidine	10.626	184	148724	16.34	ppm	99
111) 1,2,4,5-Tetrachloroben...	5.871	216	72365	10.48	ppm	98
113) Hydroquinone	5.636	110	63097	6.85	ppm	91

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

7.6.127

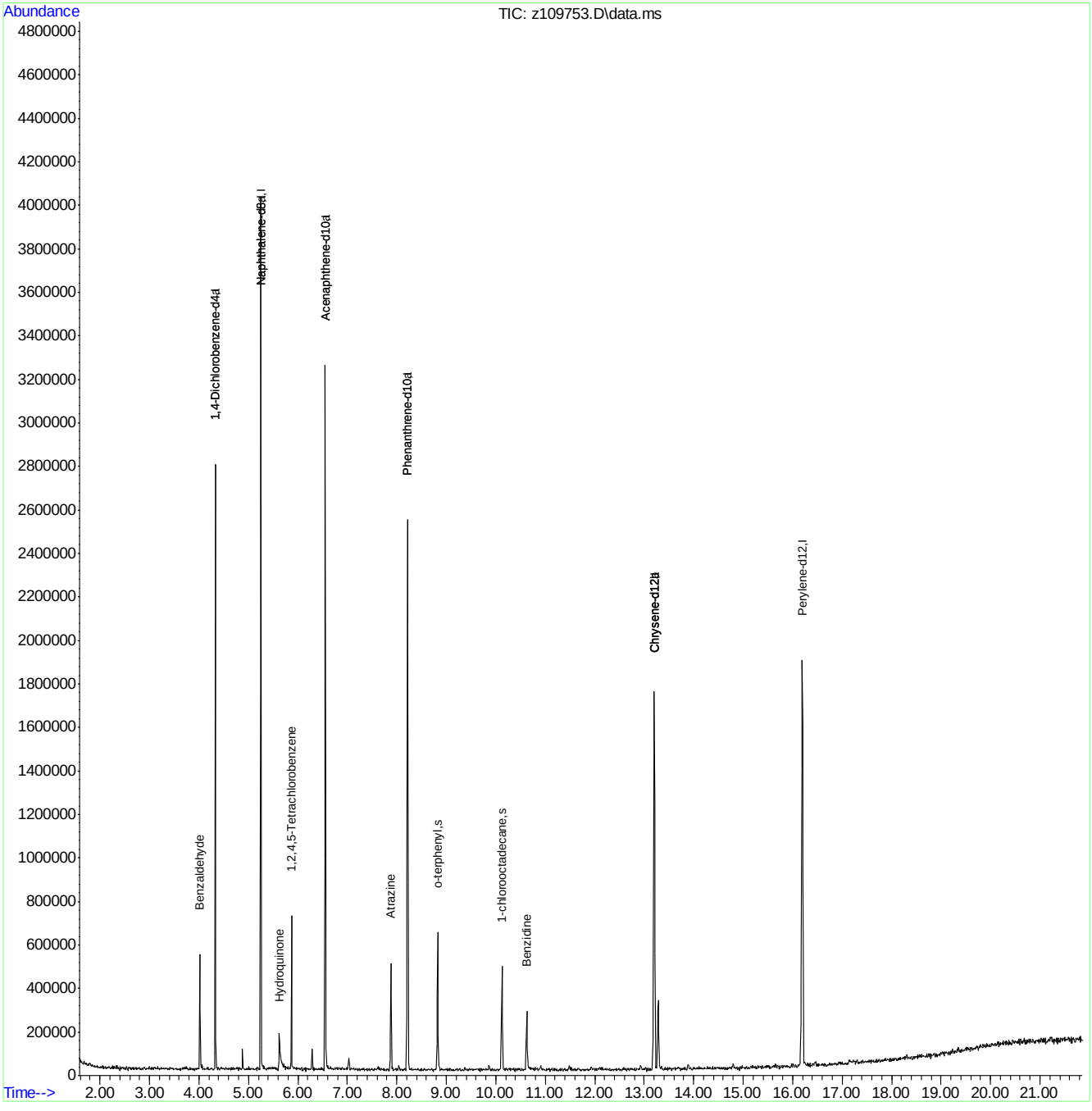
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109753.D
Acq On : 14 Apr 2016 3:27 am
Operator : sarad
Sample : ic5486-10
Misc : op92825,ez5486
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 14 10:03:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 10:03:16 2016 RTE

Page: 2

SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/14/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109754.D
Acq On : 14 Apr 2016 3:58 am
Operator : sarad
Sample : ic5486-5
Misc : op92825,ez5486
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 10:11:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	309074	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1221504	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	593546	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	1054647	40.00	ppm	0.00
83) Chrysene-d12	13.201	240	1021533	40.00	ppm	-0.01
92) Perylene-d12	16.198	264	1036245	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	309074	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	1054647	40.00	ppm	0.00
108) Chrysene-d12a	13.201	240	1021533	40.00	ppm	0.00
110) Acenaphthene-d10a	6.550	164	593546	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1221504	40.00	ppm	0.00
114) Chrysene-d12b	13.201	240	1021533	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) 1-chlorooctadecane	10.124	57	43727	5.58	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.16%	
106) o-terphenyl	8.826	230	77289	6.34	ppm	0.00
Spiked Amount 50.000			Recovery	=	12.68%	
Target Compounds						Qvalue
103) Benzaldehyde	4.018	105	44734	7.68	ppm	89
107) Atrazine	7.880	215	15201	6.39	ppm	92
109) Benzidine	10.626	184	86521	9.42	ppm	98
111) 1,2,4,5-Tetrachloroben...	5.872	216	42787	6.35	ppm	95
113) Hydroquinone	5.647	110	42812m	4.74	ppm	

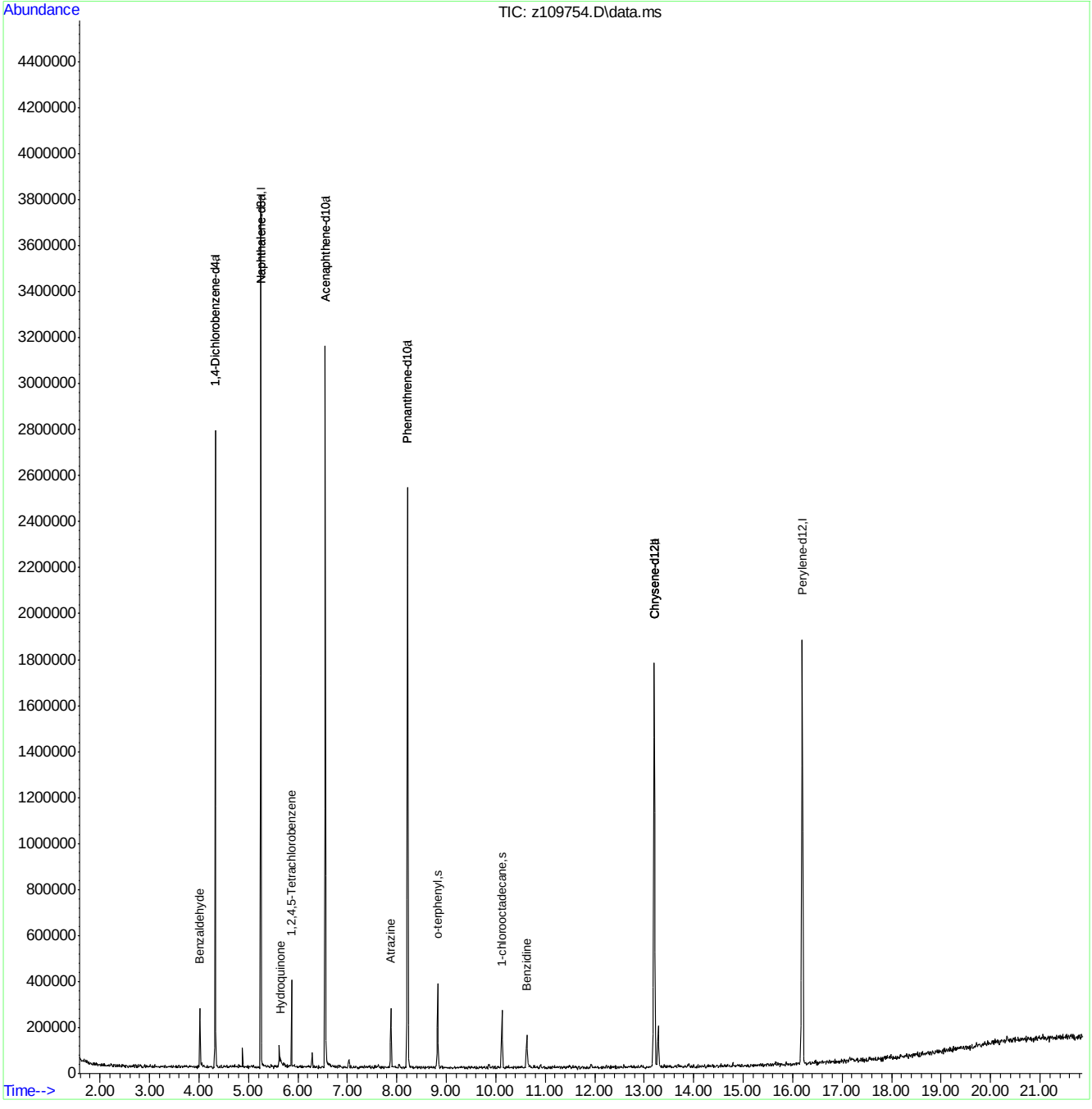
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.128
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109754.D
Acq On : 14 Apr 2016 3:58 am
Operator : sarad
Sample : ic5486-5
Misc : op92825,ez5486
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 10:11:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration



Manual Integration Approval Summary

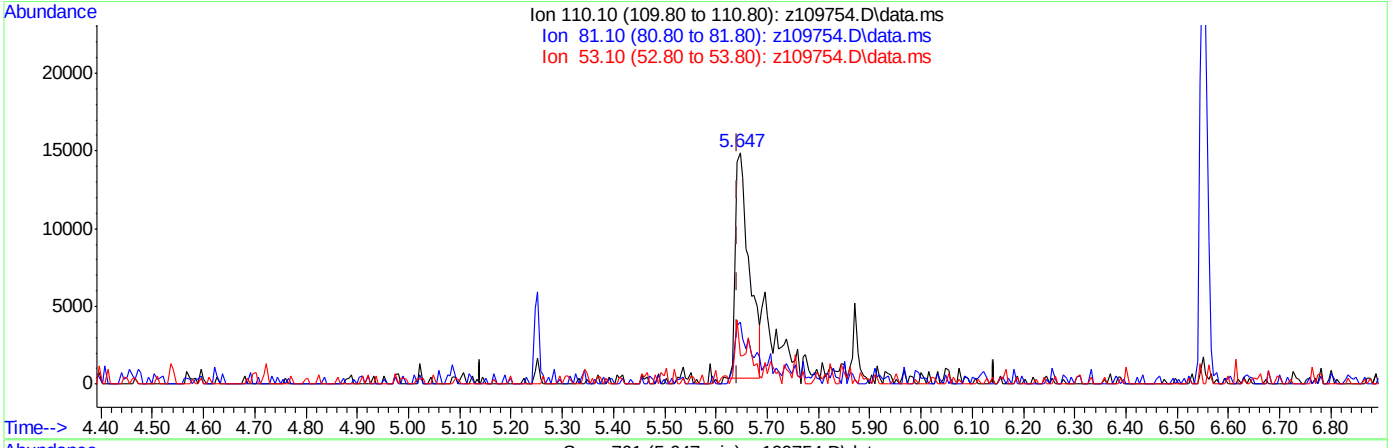
Sample Number:	EZ5486-IC5486	**Method:**	SW846 8270D
Lab FileID:	Z109754.D	**Analyst approved:**	04/14/16 12:00 Arielle Cocozza
Injection Time:	04/14/16 03:58	**Supervisor approved:**	04/14/16 15:48 Nina Pandya

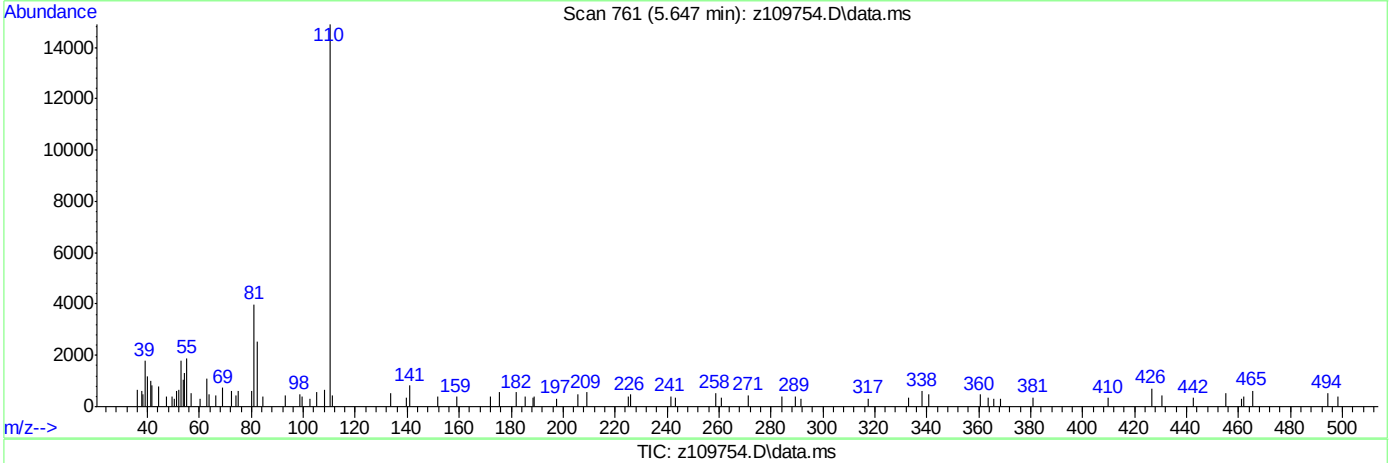
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109754.D
Acq On : 14 Apr 2016 3:58 am
Operator : sarad
Sample : ic5486-5
Misc : op92825,ez5486
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 10:10:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration





TIC: z109754.D\data.ms

(113) Hydroquinone

5.647min (+0.005) 2.98ppm

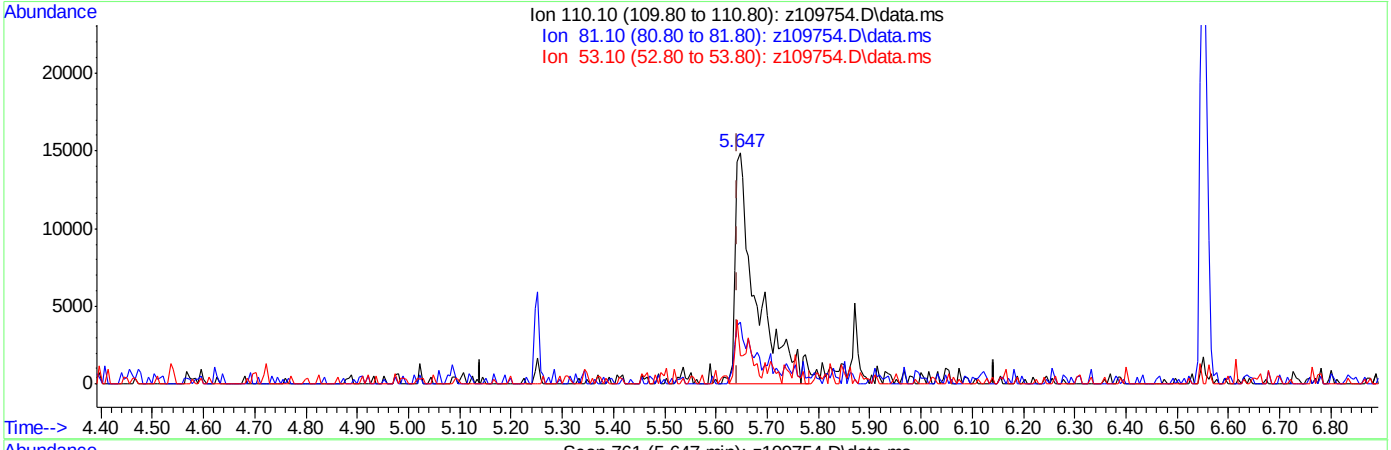
response 26917

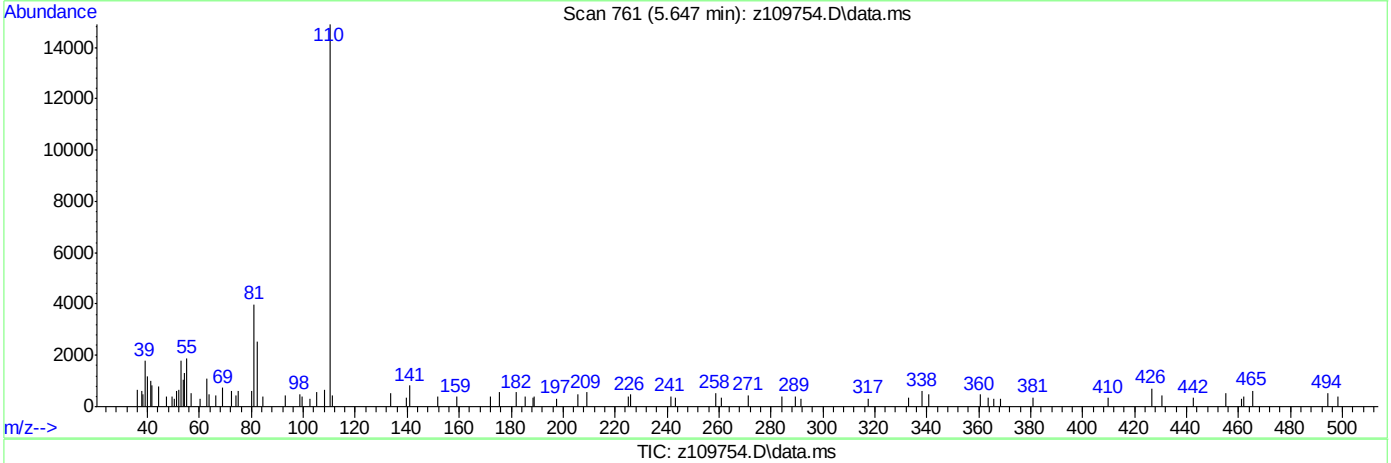
Ion	Exp%	Act%
110.10	100	100
81.10	25.30	22.81
53.10	19.60	20.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109754.D
Acq On : 14 Apr 2016 3:58 am
Operator : sarad
Sample : ic5486-5
Misc : op92825,ez5486
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 10:10:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration





TIC: z109754.D\data.ms

(113) Hydroquinone

5.647min (+0.005) 4.74ppm m

response 42812

Ion	Exp%	Act%
110.10	100	100
81.10	25.30	26.72
53.10	19.60	12.07
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/14/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109755.D
Acq On : 14 Apr 2016 4:29 am
Operator : sarad
Sample : ic5486-2
Misc : op92825,ez5486
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 10:12:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	350607	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1362066	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	655569	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	1183994	40.00	ppm	0.00
83) Chrysene-d12	13.201	240	1116785	40.00	ppm	-0.01
92) Perylene-d12	16.198	264	1154884	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	350607	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	1183994	40.00	ppm	0.00
108) Chrysene-d12a	13.201	240	1116785	40.00	ppm	0.00
110) Acenaphthene-d10a	6.550	164	655569	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1362066	40.00	ppm	0.00
114) Chrysene-d12b	13.201	240	1116785	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) 1-chlorooctadecane	10.119	57	19368	2.20	ppm	-0.01
Spiked Amount 50.000			Recovery	=	4.40%	
106) o-terphenyl	8.820	230	32826	2.40	ppm	-0.01
Spiked Amount 50.000			Recovery	=	4.80%	
Target Compounds						Qvalue
103) Benzaldehyde	4.023	105	18342	2.78	ppm	93
107) Atrazine	7.875	215	6144	2.30	ppm #	81
109) Benzidine	10.632	184	33598	3.34	ppm	92
111) 1,2,4,5-Tetrachloroben...	5.872	216	18137	2.44	ppm	93
113) Hydroquinone	5.663	110	11808m	1.17	ppm	

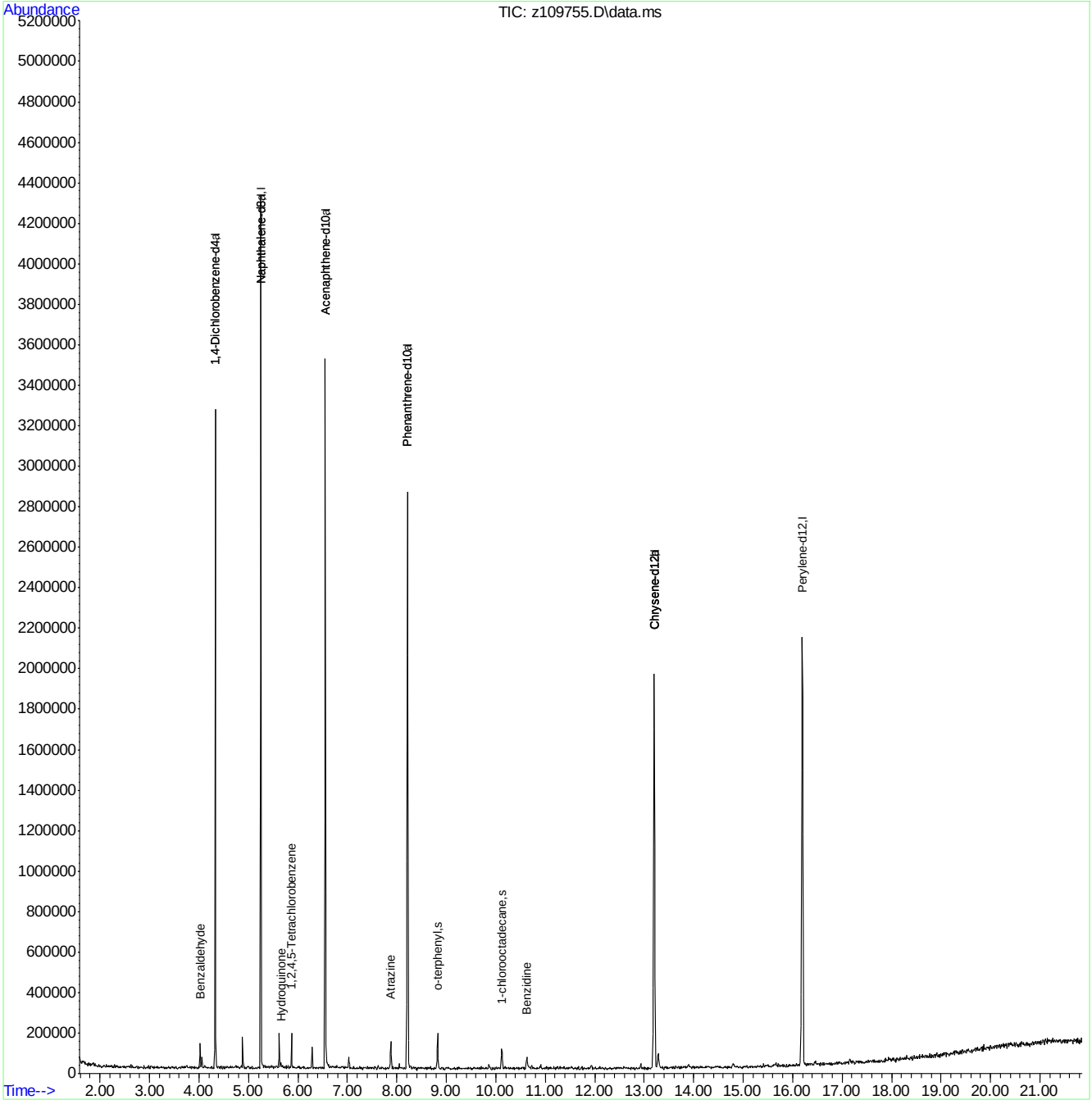
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.129
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109755.D
Acq On : 14 Apr 2016 4:29 am
Operator : sarad
Sample : ic5486-2
Misc : op92825,ez5486
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 10:12:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration



Manual Integration Approval Summary

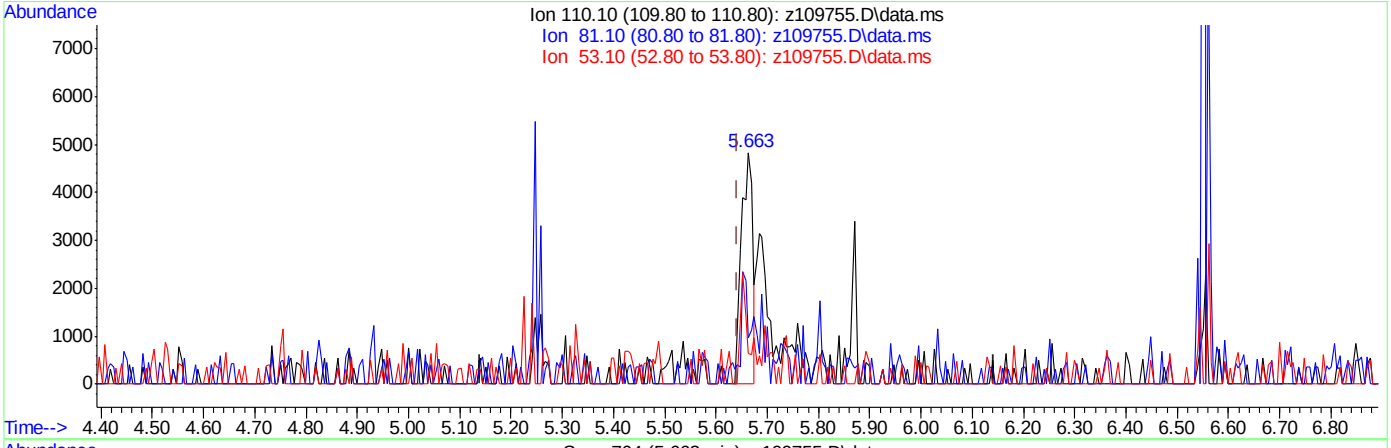
Sample Number:	EZ5486-IC5486	**Method:**	SW846 8270D
Lab FileID:	Z109755.D	**Analyst approved:**	04/14/16 12:00 Arielle Cocozza
Injection Time:	04/14/16 04:29	**Supervisor approved:**	04/14/16 15:48 Nina Pandya

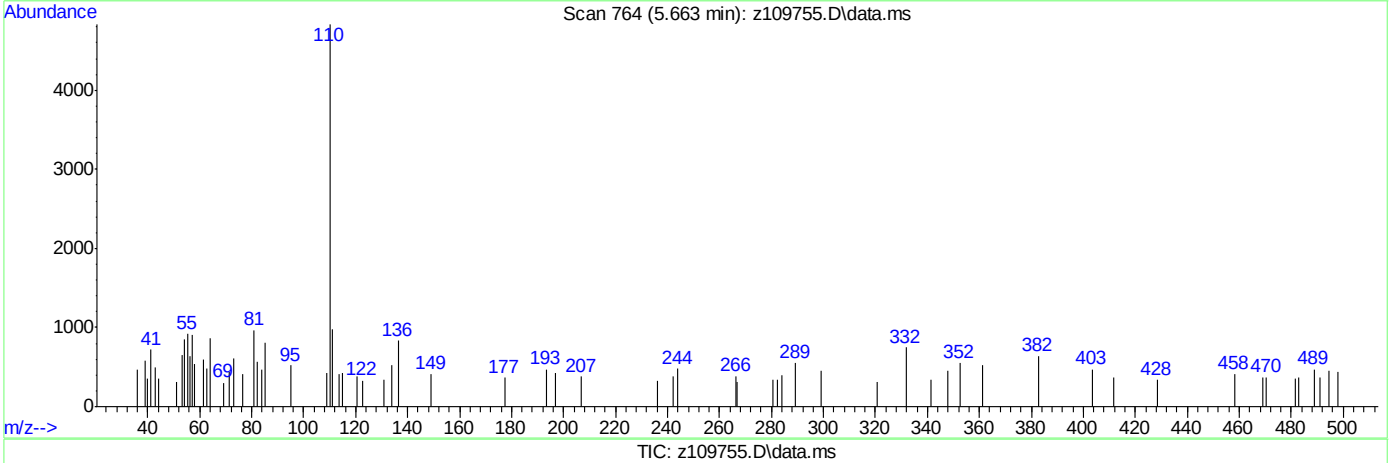
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		5.66	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109755.D
Acq On : 14 Apr 2016 4:29 am
Operator : sarad
Sample : ic5486-2
Misc : op92825,ez5486
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 10:11:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration





TIC: z109755.D\data.ms

(113) Hydroquinone

5.663min (+0.021) 0.72ppm

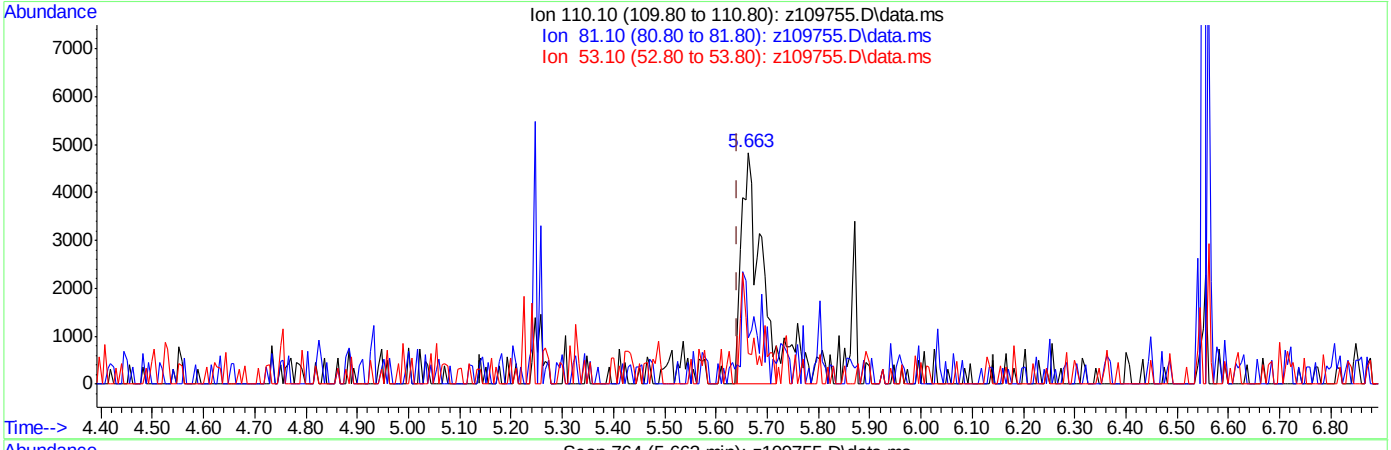
response 7265

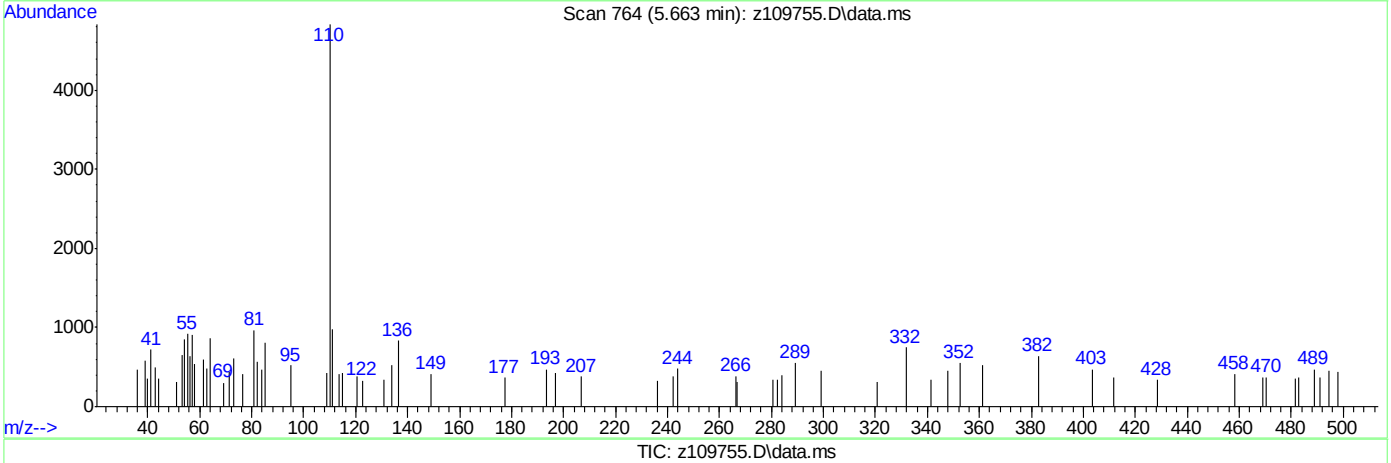
Ion	Exp%	Act%
110.10	100	100
81.10	25.30	2.73
53.10	19.60	4.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109755.D
Acq On : 14 Apr 2016 4:29 am
Operator : sarad
Sample : ic5486-2
Misc : op92825,ez5486
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 10:11:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:57:39 2016
Response via : Initial Calibration





TIC: z109755.D\data.ms

(113) Hydroquinone

5.663min (+0.021) 1.17ppm m

response 11808

Ion	Exp%	Act%
110.10	100	100
81.10	25.30	19.97
53.10	19.60	13.41
0.00	0.00	0.00

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109756.D
Acq On : 14 Apr 2016 5:00 am
Operator : sarad
Sample : ic5486-1
Misc : op92825,ez5486
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 14 10:12:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:08:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	323084	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1318642	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	653253	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	1130873	40.00	ppm	0.00
83) Chrysene-d12	13.201	240	1036244	40.00	ppm	-0.01
92) Perylene-d12	16.198	264	1089065	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	323084	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	1130873	40.00	ppm	0.00
108) Chrysene-d12a	13.201	240	1036244	40.00	ppm	0.00
110) Acenaphthene-d10a	6.550	164	653253	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1318642	40.00	ppm	0.00
114) Chrysene-d12b	13.201	240	1036244	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) 1-chlorooctadecane	10.124	57	7765	0.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.92%	
106) o-terphenyl	8.820	230	17564	1.30	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.60%	
Target Compounds						Qvalue
103) Benzaldehyde	4.023	105	11073	1.32	ppm	# 76
107) Atrazine	7.880	215	3337	1.32	ppm	# 40
109) Benzidine	10.637	184	10996	0.76	ppm	89
111) 1,2,4,5-Tetrachloroben...	5.872	216	9368	1.16	ppm	# 69
113) Hydroquinone	5.663	110	9852	1.08	ppm	91

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

7.6.130

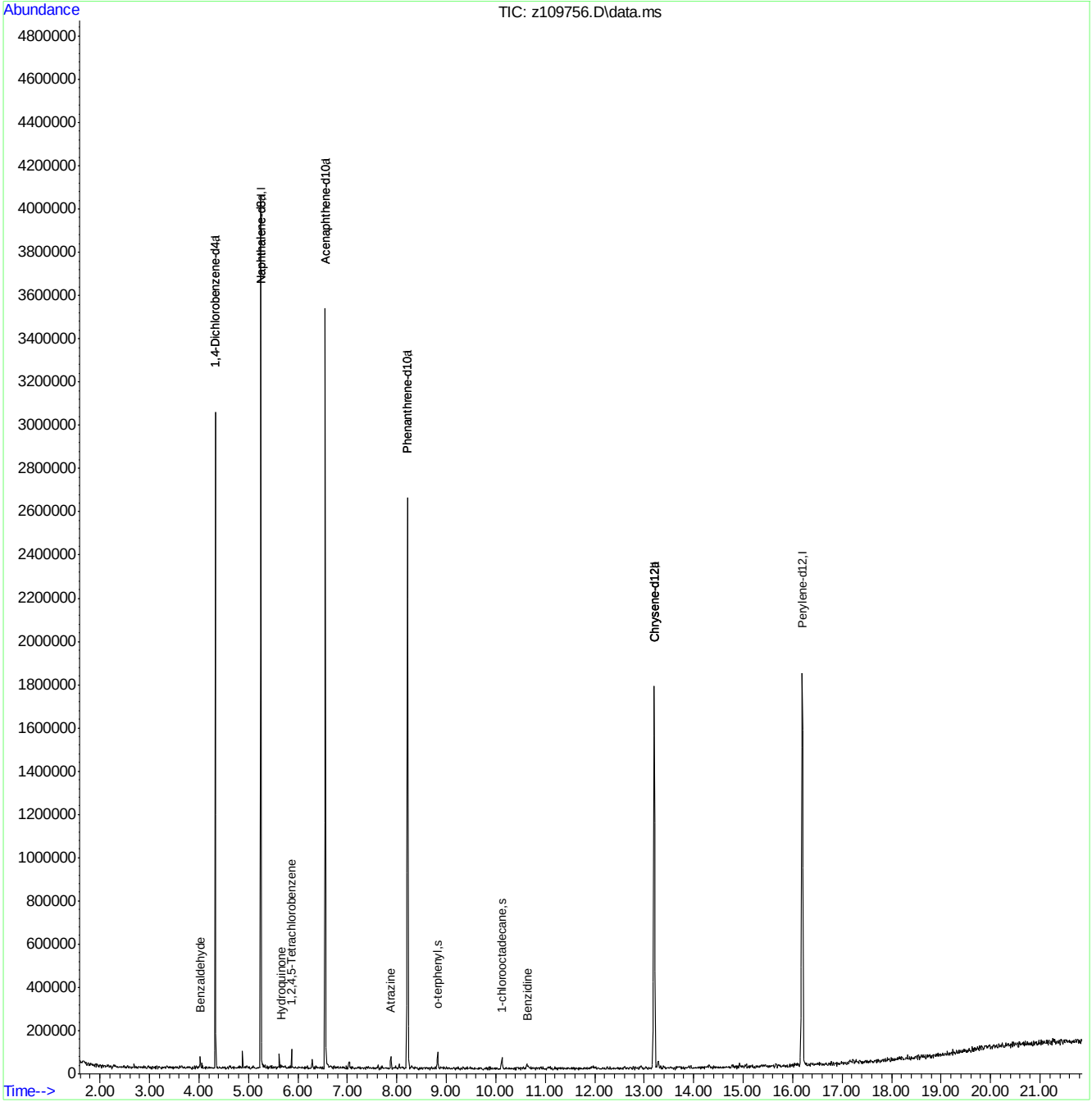
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109756.D
Acq On : 14 Apr 2016 5:00 am
Operator : sarad
Sample : ic5486-1
Misc : op92825,ez5486
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 14 10:12:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:08:50 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109757.D
Acq On : 14 Apr 2016 5:32 am
Operator : sarad
Sample : icc5486-50
Misc : op92825,ez5486
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 14 12:01:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	294519	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1178696	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	561026	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	1014892	40.00	ppm	0.00
83) Chrysene-d12	13.201	240	945857	40.00	ppm	-0.02
92) Perylene-d12	16.198	264	991160	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	294519	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	1014892	40.00	ppm	0.00
108) Chrysene-d12a	13.201	240	945857	40.00	ppm	0.00
110) Acenaphthene-d10a	6.550	164	561026	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1178696	40.00	ppm	0.00
114) Chrysene-d12b	13.201	240	945857	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	10.124	57	361617	47.04	ppm	0.00
Spiked Amount 50.000			Recovery = 94.08%			
106) o-terphenyl	8.826	230	605693	45.81	ppm	0.00
Spiked Amount 50.000			Recovery = 91.62%			
Target Compounds						Qvalue
103) Benzaldehyde	4.012	105	384251	49.42	ppm	96
107) Atrazine	7.891	215	113802	45.07	ppm #	69
109) Benzidine	10.626	184	669691	51.81	ppm	85
111) 1,2,4,5-Tetrachloroben...	5.872	216	347232	48.28	ppm	95
113) Hydroquinone	5.631	110	436289	56.01	ppm	88

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

7.6.131

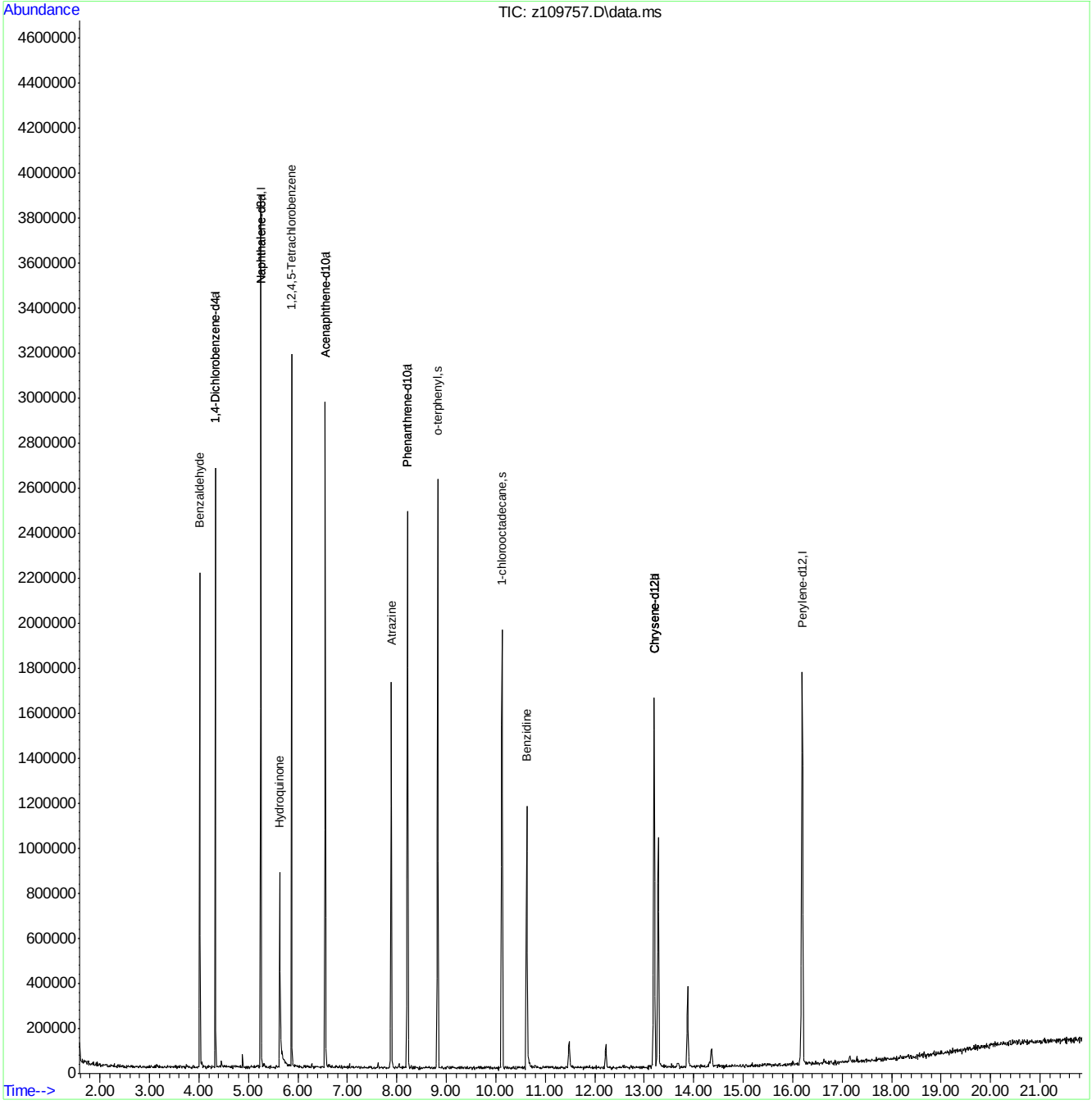
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109757.D
Acq On : 14 Apr 2016 5:32 am
Operator : sarad
Sample : icc5486-50
Misc : op92825,ez5486
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 14 12:01:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109758.D
Acq On : 14 Apr 2016 7:59 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 14 10:33:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:08:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	318657	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1212299	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	680138	40.00	ppm	0.00
69) Phenanthrene-d10	8.222	188	1069173	40.00	ppm	0.00
83) Chrysene-d12	13.207	240	918855	40.00	ppm	0.00
92) Perylene-d12	16.198	264	854540	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.328	152	318657	40.00	ppm	0.00
104) Phenanthrene-d10a	8.222	188	1069173	40.00	ppm	0.00
108) Chrysene-d12a	13.207	240	918855	40.00	ppm	0.00
110) Acenaphthene-d10a	6.555	164	680138	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1212299	40.00	ppm	0.00
114) Chrysene-d12b	13.207	240	918855	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
9) Phenol	4.162	94	656907	50.19	ppm	97
12) 2-Chlorophenol	4.205	128	584947	48.46	ppm	97
19) 2-Methylphenol	4.579	108	505129	49.37	ppm	96
21) 3&4-Methylphenol	4.691	108	529822	49.65	ppm	97
29) 2-Nitrophenol	4.996	139	313432	51.16	ppm	93
30) 2,4-Dimethylphenol	5.054	107	490881	50.93	ppm	99
31) Benzoic Acid	5.188	105	334056	48.05	ppm	93
33) 2,4-Dichlorophenol	5.183	162	437893	51.59	ppm	93
34) 2,6-Dichlorophenol	5.337	162	403738	48.61	ppm	98
43) 4-Chloro-3-methylphenol	5.706	107	457266	50.80	ppm	97
49) 2,4,6-Trichlorophenol	5.979	196	286438	51.00	ppm	98
50) 2,4,5-Trichlorophenol	6.016	196	270687	44.49	ppm	94
60) 2,4-Dinitrophenol	6.641	184	111881	46.15	ppm	90
61) 4-Nitrophenol	6.791	109	134422	50.93	ppm	97
64) 2,3,4,6-Tetrachlorophenol	6.887	232	222818	46.14	ppm	96
70) 4,6-Dinitro-2-methylph...	7.159	198	174688	54.92	ppm	97
76) Pentachlorophenol	8.009	266	175431	53.13	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109758.D
Acq On : 14 Apr 2016 7:59 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 14 10:33:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:08:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

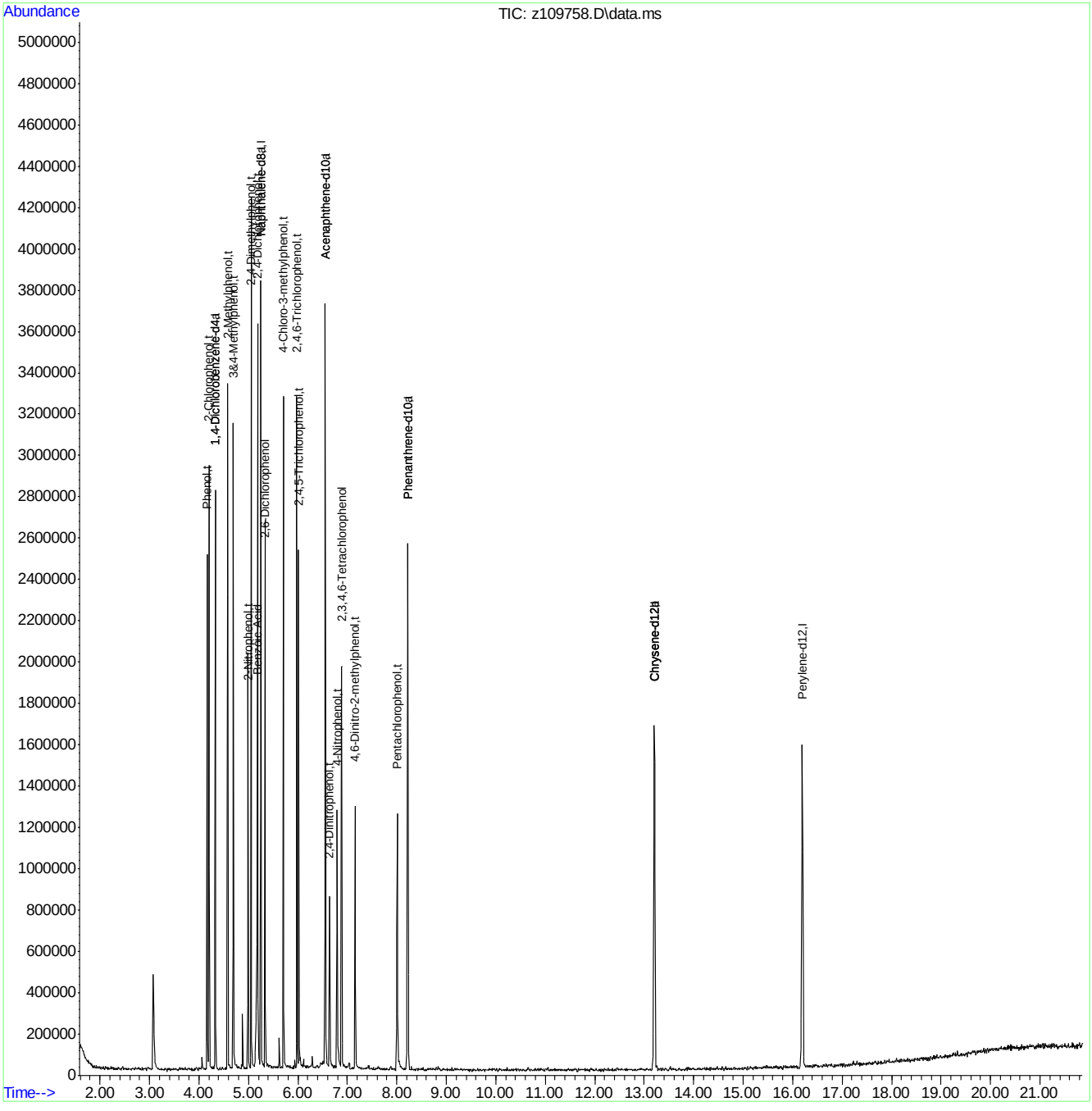
7.6.132

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109758.D
Acq On : 14 Apr 2016 7:59 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 14 10:33:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:08:50 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109759.D
Acq On : 14 Apr 2016 8:30 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 14 10:40:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	292844	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1189754	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	639312	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	1022797	40.00	ppm	0.00
83) Chrysene-d12	13.201	240	877838	40.00	ppm	-0.02
92) Perylene-d12	16.193	264	782708	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.328	152	292844	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	1022797	40.00	ppm	0.00
108) Chrysene-d12a	13.201	240	877838	40.00	ppm	0.00
110) Acenaphthene-d10a	6.550	164	639312	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1189754	40.00	ppm	0.00
114) Chrysene-d12b	13.201	240	877838	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
3) Pyridine	2.287	79	486168	71.11	ppm	92
10) Aniline	4.120	93	668714	48.32	ppm	96
16) Benzyl alcohol	4.472	108	292330	57.59	ppm	97
39) 4-Chloroaniline	5.338	127	583975	44.91	ppm	94
44) 2-Methylnaphthalene	5.754	141	841794	46.29	ppm	92
54) 2-Nitroaniline	6.219	65	230099	47.11	ppm #	78
58) 3-Nitroaniline	6.566	138	259911	48.24	ppm	97
62) Dibenzofuran	6.737	168	1235859	47.01	ppm	97
68) 4-Nitroaniline	7.170	138	251673	46.68	ppm	98
79) Carbazole	8.629	167	1365980	47.50	ppm	96

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

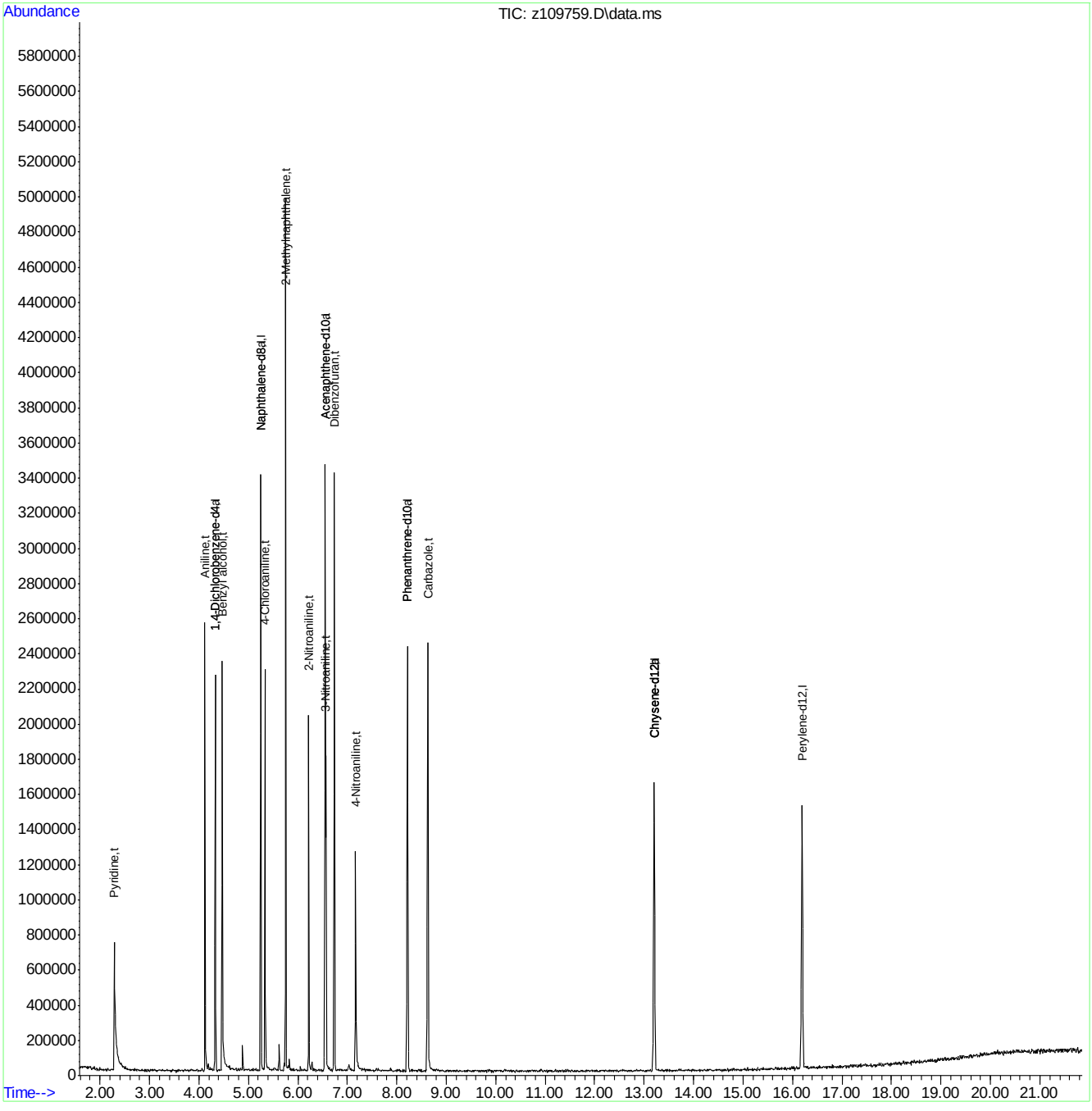
7.6.133

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109759.D
Acq On : 14 Apr 2016 8:30 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 14 10:40:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 10:41:03 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109760.D
Acq On : 14 Apr 2016 9:01 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 14 10:43:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:11:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	348705	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1362242	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	729101	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	1119541	40.00	ppm	0.00
83) Chrysene-d12	13.201	240	976579	40.00	ppm	-0.02
92) Perylene-d12	16.193	264	878122	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.328	152	348705	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	1119541	40.00	ppm	0.00
108) Chrysene-d12a	13.201	240	976579	40.00	ppm	-0.02
110) Acenaphthene-d10a	6.550	164	729101	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1362242	40.00	ppm	0.00
114) Chrysene-d12b	13.201	240	976579	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.409	112	626577	52.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	104.54%	
8) Phenol-d5	4.151	99	726060	52.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	104.00%	
25) Nitrobenzene-d5	4.750	82	553000	49.62	ppm	0.00
Spiked Amount 50.000			Recovery	=	99.24%	
51) 2-Fluorobiphenyl	6.021	172	1235578	53.40	ppm	0.00
Spiked Amount 50.000			Recovery	=	106.80%	
73) 2,4,6-Tribromophenol	7.346	330	169410	48.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	96.32%	
86) Terphenyl-d14	11.059	244	1104906	53.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	106.90%	
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds Qvalue

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

7.6.134

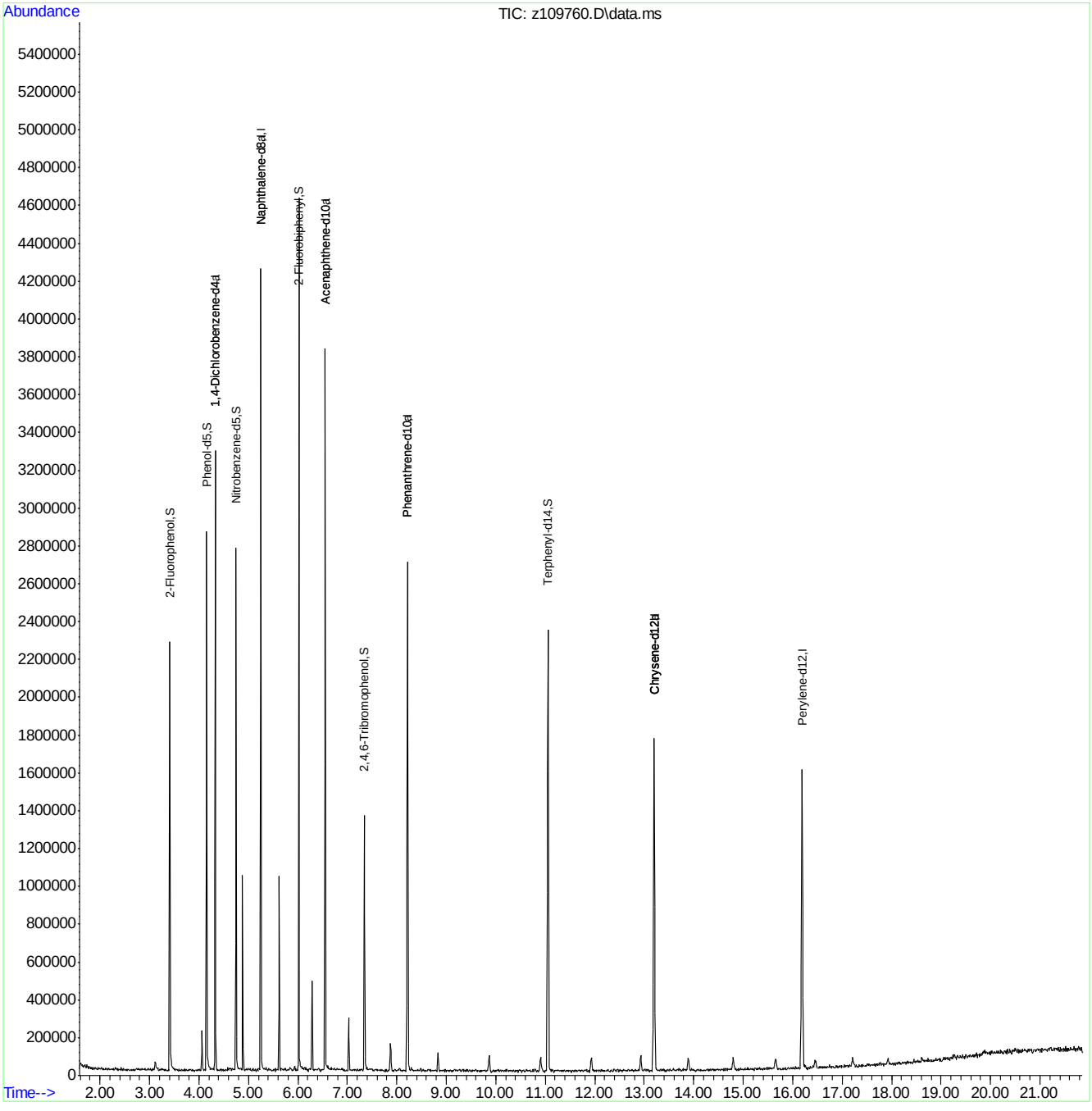
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109760.D
Acq On : 14 Apr 2016 9:01 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 14 10:43:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 09:11:08 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109761.D
Acq On : 14 Apr 2016 9:32 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 14 13:29:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	290194	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1105906	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	586675	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	930198	40.00	ppm	0.00
83) Chrysene-d12	13.206	240	757551	40.00	ppm	-0.01
92) Perylene-d12	16.193	264	704226	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.328	152	290194	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	930198	40.00	ppm	0.00
108) Chrysene-d12a	13.206	240	757551	40.00	ppm	0.00
110) Acenaphthene-d10a	6.555	164	586675	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1105906	40.00	ppm	0.00
114) Chrysene-d12b	13.206	240	757551	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.148	74	289584	51.32	ppm	98
11) bis(2-Chloroethyl)ether	4.146	93	446452	54.70	ppm	91
14) 1,3-Dichlorobenzene	4.285	146	596644	49.89	ppm	98
15) 1,4-Dichlorobenzene	4.344	146	579234	51.06	ppm	97
17) 1,2-Dichlorobenzene	4.456	146	562286	51.16	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.536	121	110997	38.89	ppm #	75
22) n-Nitroso-di-n-propyla...	4.637	70	330028	49.87	ppm	84
23) Hexachloroethane	4.696	201	169610	51.31	ppm	95
26) Nitrobenzene	4.766	77	457662	50.88	ppm	95
28) Isophorone	4.921	82	829132	52.94	ppm	98
32) bis(2-Chloroethoxy)met...	5.086	93	503342	51.82	ppm	95
36) 1,2,4-Trichlorobenzene	5.209	180	421762	52.29	ppm	95
38) Naphthalene	5.268	128	1499585	49.39	ppm	99
42) Hexachlorobutadiene	5.353	225	210477	58.74	ppm	96
48) Hexachlorocyclopentadiene	5.866	237	204290	52.24	ppm	97
52) 2-Chloronaphthalene	6.107	162	861266	51.81	ppm	99
55) Dimethylphthalate	6.342	163	964361	51.67	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109761.D
Acq On : 14 Apr 2016 9:32 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 14 13:29:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56)	Acenaphthylene	6.438	152	1393030	47.70	ppm	99
57)	2,6-Dinitrotoluene	6.395	165	210947	51.57	ppm	91
59)	Acenaphthene	6.582	153	919620	52.64	ppm	99
63)	2,4-Dinitrotoluene	6.753	165	270101	50.76	ppm	97
65)	Diethylphthalate	6.972	149	973361	50.81	ppm	99
66)	Fluorene	7.073	166	963971	48.54	ppm	95
67)	4-Chlorophenyl-phenyle...	7.073	204	410957	50.19	ppm	96
71)	n-Nitrosodiphenylamine	7.218	169	693275	51.26	ppm	93
72)	1,2-Diphenylhydrazine	7.244	77	813652	50.32	ppm	97
74)	4-Bromophenyl-phenylether	7.629	248	233946	48.47	ppm	91
75)	Hexachlorobenzene	7.699	284	264423	48.86	ppm	93
77)	Phenanthrene	8.249	178	1303444	48.97	ppm	97
78)	Anthracene	8.324	178	1314918	47.94	ppm	99
80)	Di-n-butylphthalate	9.210	149	1656784	51.47	ppm	100
81)	Fluoranthene	10.231	202	1361766	49.00	ppm	97
84)	Pyrene	10.653	202	1375846	53.86	ppm	94
87)	Butylbenzylphthalate	12.191	149	671280	55.06	ppm	90
88)	Benzo[a]anthracene	13.180	228	1140996	51.57	ppm	99
90)	Chrysene	13.260	228	1044259	48.35	ppm	96
91)	bis(2-Ethylhexyl)phtha...	13.527	149	930139	54.21	ppm	99
93)	Di-n-octylphthalate	14.927	149	1599914	58.96	ppm	98
94)	Benzo[b]fluoranthene	15.450	252	1108131	49.85	ppm	93
95)	Benzo[k]fluoranthene	15.504	252	1090917	54.67	ppm	98
96)	Benzo[a]pyrene	16.075	252	1030970	52.11	ppm	97
97)	Indeno[1,2,3-cd]pyrene	18.105	276	1029021	52.02	ppm	92
99)	Dibenz[a,h]anthracene	18.159	278	1041959	50.05	ppm	97
101)	Benzo[g,h,i]perylene	18.538	276	1035212	48.69	ppm	97

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

7.6.135

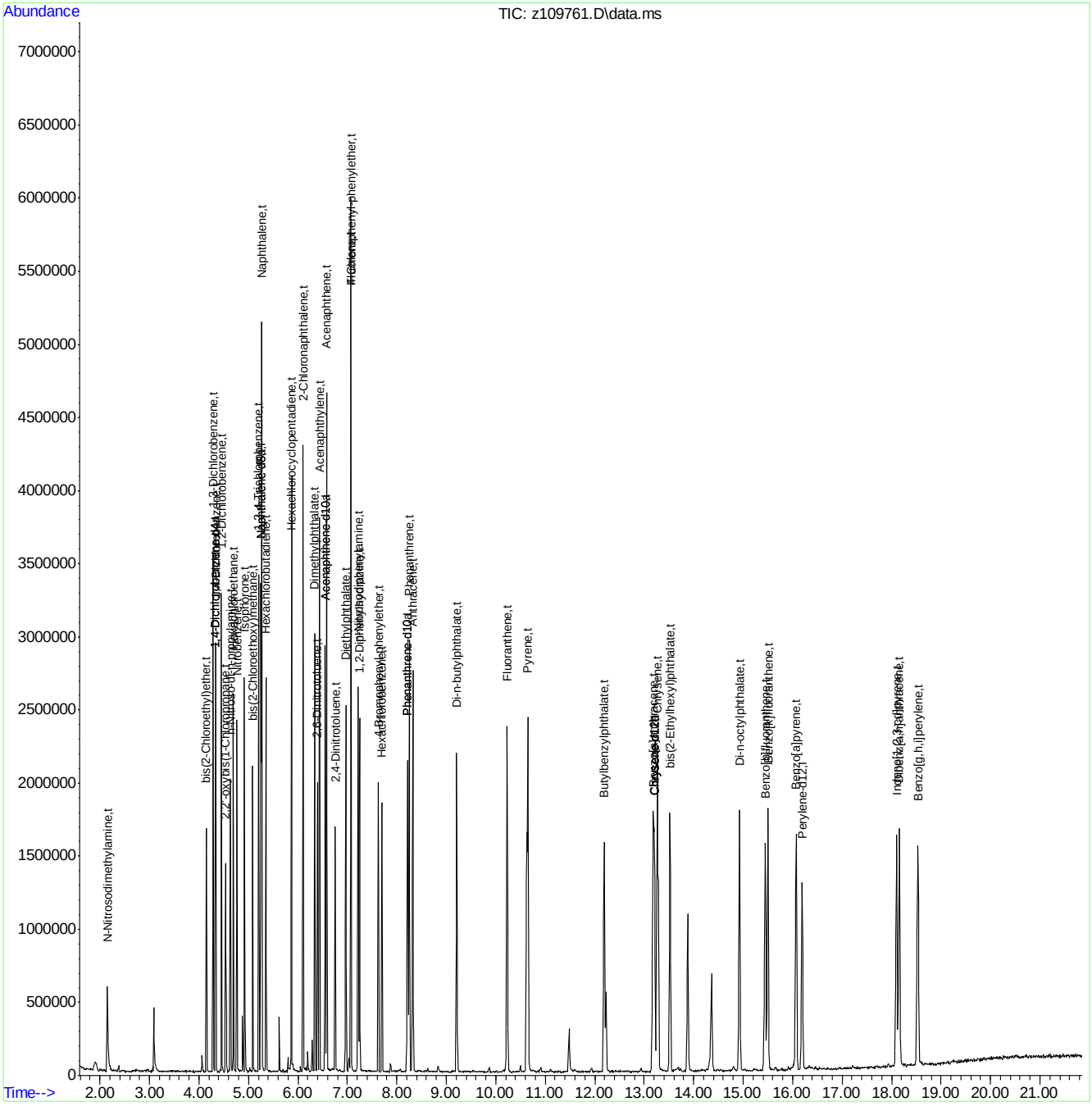
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109761.D
Acq On : 14 Apr 2016 9:32 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 14 13:29:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 13:29:15 2016 RTE

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SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109761a.D
Acq On : 14 Apr 2016 9:32 am
Operator : sarad
Sample : icv5486-50
Misc : op92825,ez5486
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 14 13:30:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	290194	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1105906	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	586675	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	930198	40.00	ppm	0.00
83) Chrysene-d12	13.206	240	757551	40.00	ppm	-0.01
92) Perylene-d12	16.193	264	704226	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.328	152	290194	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	930198	40.00	ppm	0.00
108) Chrysene-d12a	13.206	240	757551	40.00	ppm	0.00
110) Acenaphthene-d10a	6.555	164	586675	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1105906	40.00	ppm	0.00
114) Chrysene-d12b	13.206	240	757551	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
109) Benzidine	10.626	184	806234	77.87	ppm	87
111) 1,2,4,5-Tetrachloroben...	5.871	216	382532	50.86	ppm	94

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

7.6.136

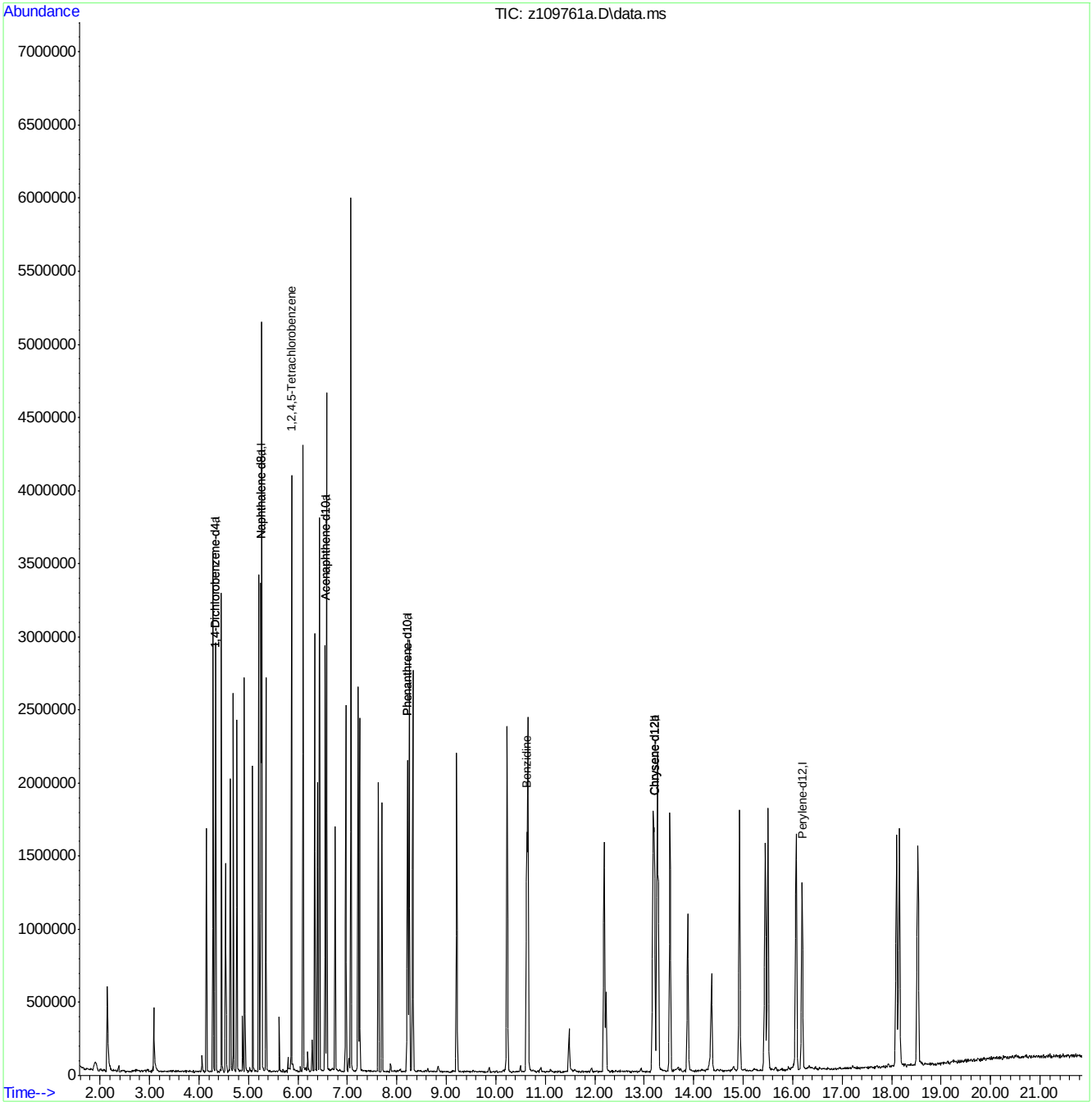
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109761a.D
Acq On : 14 Apr 2016 9:32 am
Operator : sarad
Sample : icv5486-50
Misc : op92825,ez5486
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 14 13:30:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 15:33:25 2016 RTE

Page: 2

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109762.D
Acq On : 14 Apr 2016 10:03 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 14 10:52:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.327	152	306061	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1176501	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	629319	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	964323	40.00	ppm	0.00
83) Chrysene-d12	13.196	240	834677	40.00	ppm	-0.02
92) Perylene-d12	16.193	264	773212	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.327	152	306061	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	964323	40.00	ppm	0.00
108) Chrysene-d12a	13.196	240	834677	40.00	ppm	0.00
110) Acenaphthene-d10a	6.550	164	629319	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1176501	40.00	ppm	0.00
114) Chrysene-d12b	13.196	240	834677	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.811	88	203465	44.80	ppm	94
6) Indene	4.520	116	929287	47.77	ppm	98
7) Cumene	3.719	105	1148717	46.29	ppm	99
13) Decane	4.194	43	493944	46.24	ppm	98
18) Acetophenone	4.637	105	628668	46.60	ppm	91
27) Quinoline	5.513	129	1034495	46.46	ppm	97
40) 2,3-Dichloroaniline	5.978	161	404434	39.11	ppm	92
41) Caprolactam	5.578	55	171068	40.84	ppm	87
45) 1-Methylnaphthalene	5.823	141	849509	44.14	ppm	98
46) Dimethylnaphthalene	6.208	156	861267	46.30	ppm	98
53) Biphenyl	6.090	154	1135689	45.46	ppm	100
82) Octadecane	8.067	57	579174	48.40	ppm	96
100) 7,12-Dimethylbenz(a)an...	15.455	256	493715	44.46	ppm	92
103) Benzaldehyde	4.018	105	407214	50.40	ppm	94
107) Atrazine	7.891	215	121727	50.73	ppm #	80

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109762.D
Acq On : 14 Apr 2016 10:03 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 14 10:52:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

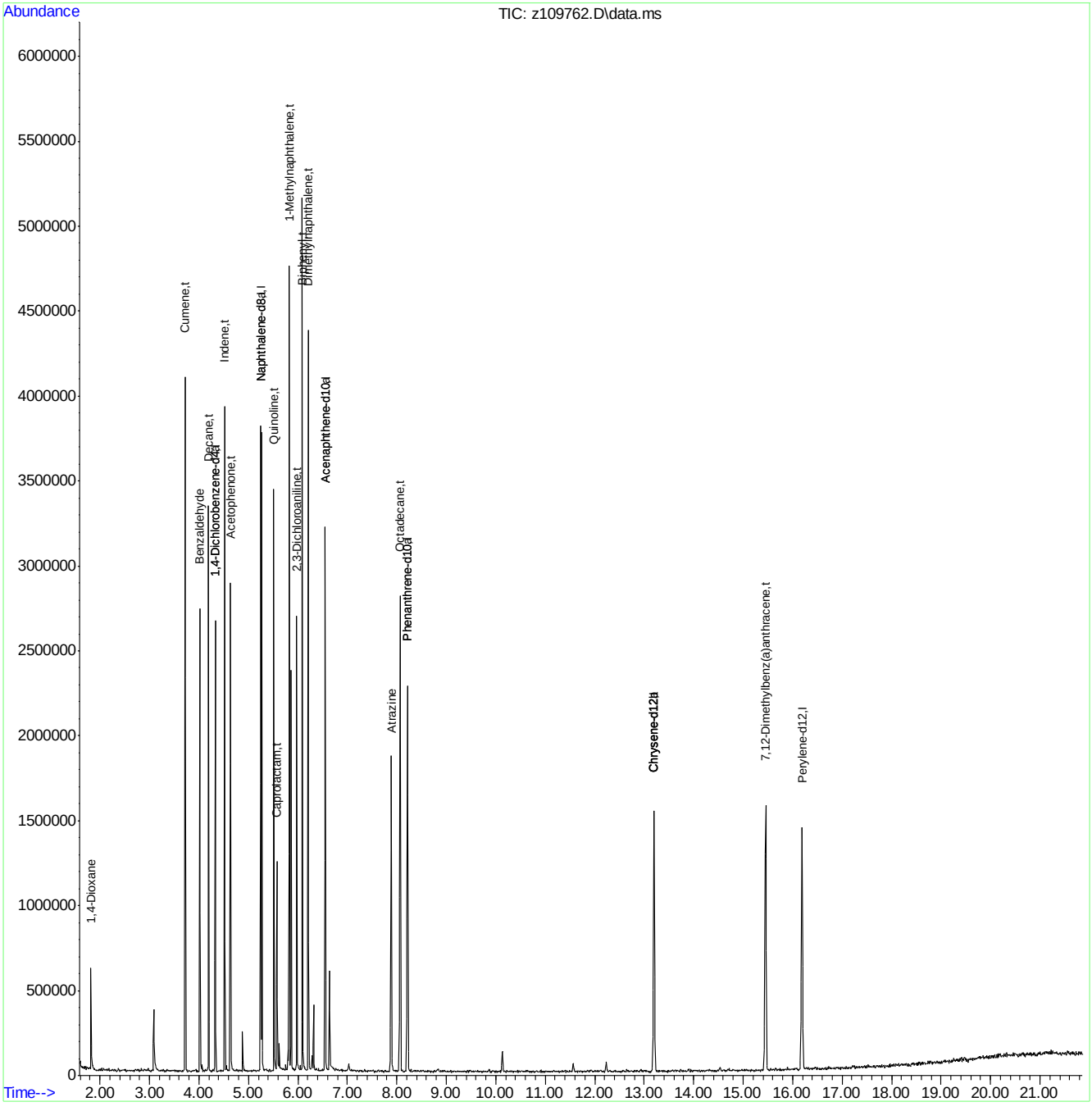
7.6.137

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109762.D
Acq On : 14 Apr 2016 10:03 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 14 10:52:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109762a.D
Acq On : 14 Apr 2016 10:03 am
Operator : sarad
Sample : icv5486-50
Misc : op92825,ez5486
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 14 13:31:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.327	152	306061	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1176501	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	629319	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	964323	40.00	ppm	0.00
83) Chrysene-d12	13.196	240	834677	40.00	ppm	-0.02
92) Perylene-d12	16.193	264	773212	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.327	152	306061	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	964323	40.00	ppm	0.00
108) Chrysene-d12a	13.196	240	834677	40.00	ppm	0.00
110) Acenaphthene-d10a	6.550	164	629319	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1176501	40.00	ppm	0.00
114) Chrysene-d12b	13.196	240	834677	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.018	105	407214	50.40	ppm	94
107) Atrazine	7.891	215	121727	50.73	ppm #	80

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

7.6.138

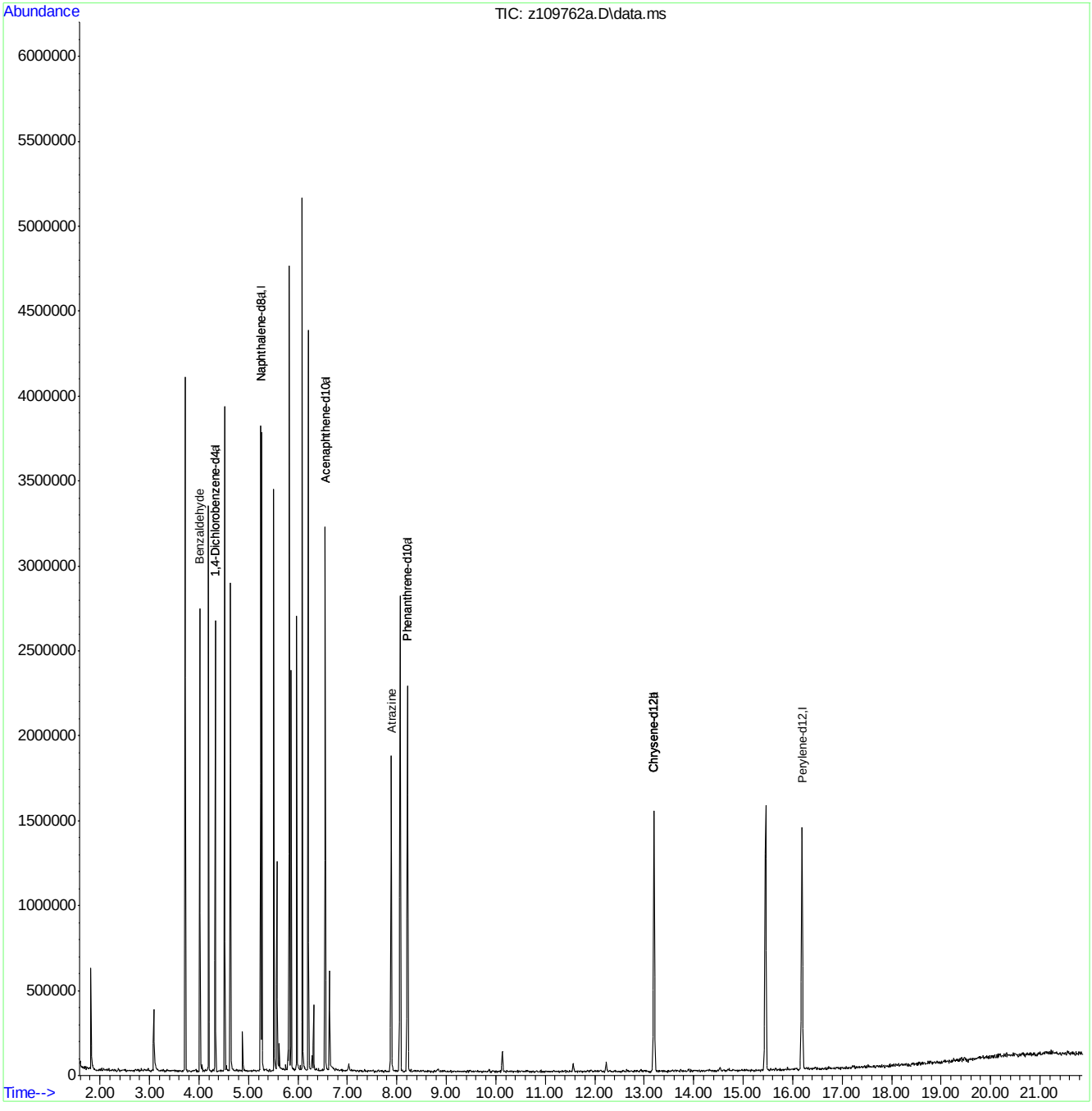
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109762a.D
Acq On : 14 Apr 2016 10:03 am
Operator : sarad
Sample : icv5486-50
Misc : op92825,ez5486
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 14 13:31:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 15:33:32 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109763.D
Acq On : 14 Apr 2016 10:35 am
Operator : sarad
Sample : icv5486-50
Misc : op92825,ez5486
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 14 11:05:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	289489	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1093473	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	603385	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	932001	40.00	ppm	0.00
83) Chrysene-d12	13.201	240	826872	40.00	ppm	-0.02
92) Perylene-d12	16.193	264	828079	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.328	152	289489	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	932001	40.00	ppm	0.00
108) Chrysene-d12a	13.201	240	826872	40.00	ppm	0.00
110) Acenaphthene-d10a	6.550	164	603385	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1093473	40.00	ppm	0.00
114) Chrysene-d12b	13.201	240	826872	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
113) Hydroquinone	5.631	110	414062	57.30	ppm	89

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

7.6.139

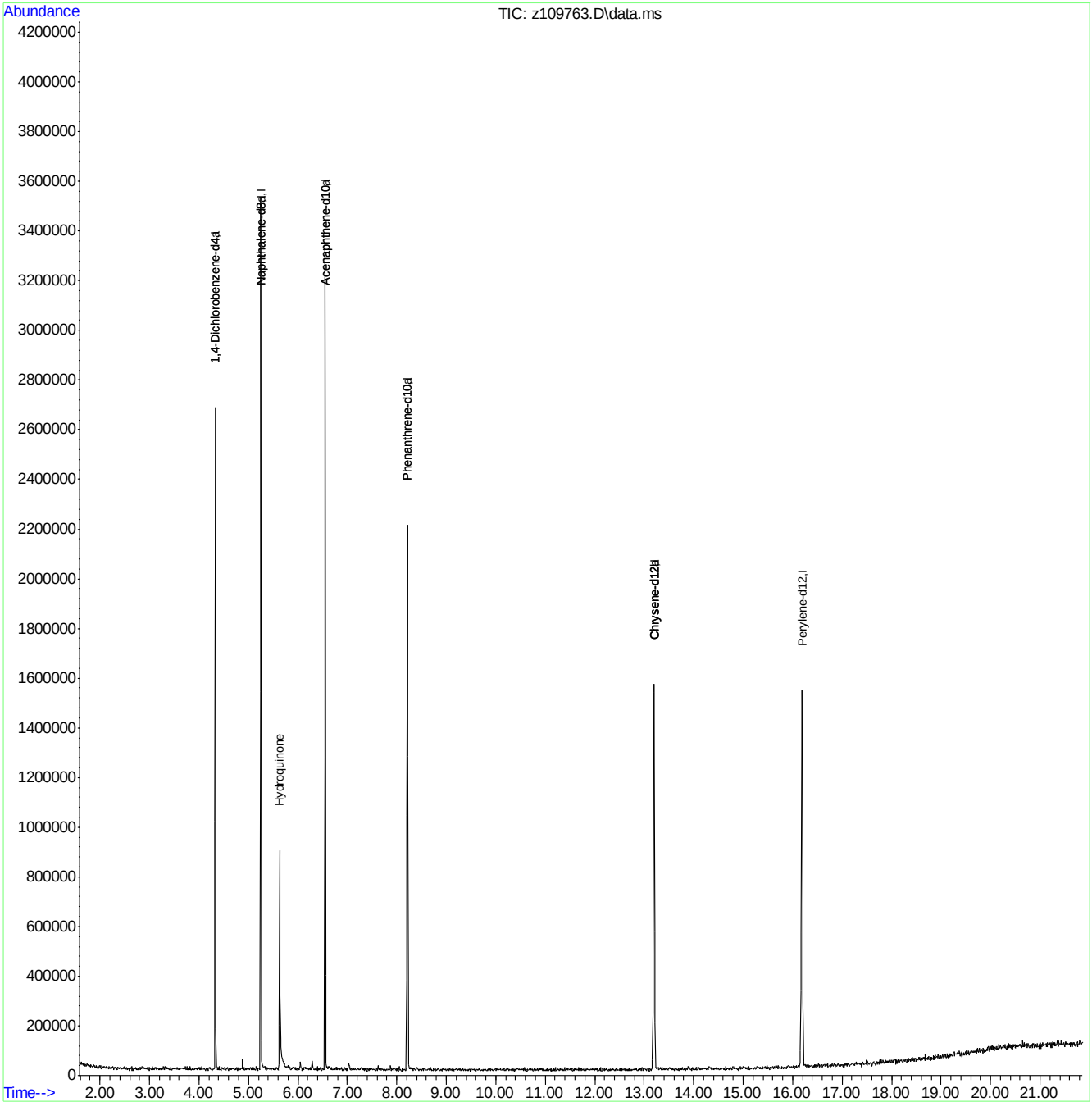
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109763.D
Acq On : 14 Apr 2016 10:35 am
Operator : sarad
Sample : icv5486-50
Misc : op92825,ez5486
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 14 11:05:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration



MZ5485.M Thu Apr 14 11:05:17 2016 RTE

Page: 2

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109764.D
Acq On : 14 Apr 2016 11:06 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 14 13:08:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	278435	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1065389	40.00	ppm	0.00
47) Acenaphthene-d10	6.550	164	582844	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	954062	40.00	ppm	0.00
83) Chrysene-d12	13.196	240	844027	40.00	ppm	-0.02
92) Perylene-d12	16.187	264	846117	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.328	152	278435	40.00	ppm	0.00
104) Phenanthrene-d10a	8.217	188	954062	40.00	ppm	0.00
108) Chrysene-d12a	13.196	240	844027	40.00	ppm	0.00
110) Acenaphthene-d10a	6.550	164	582844	40.00	ppm	0.00
112) Naphthalene-d8a	5.252	136	1065389	40.00	ppm	0.00
114) Chrysene-d12b	13.196	240	844027	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
106) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
89) 3,3'-Dichlorobenzidine	13.281	252	426883	47.96	ppm	98

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

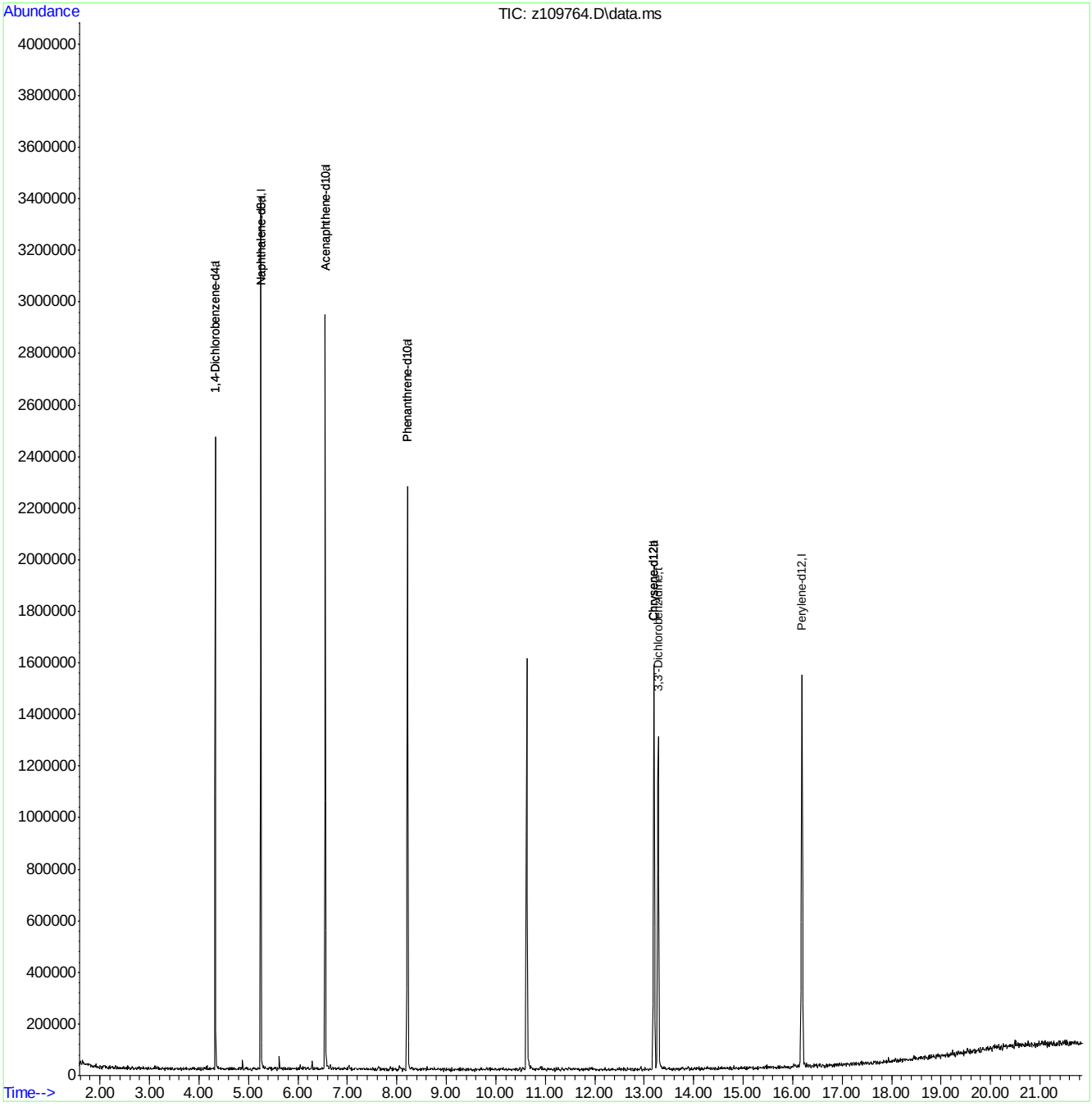
7.6.140

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5486\
Data File : z109764.D
Acq On : 14 Apr 2016 11:06 am
Operator : sarad
Sample : icv5485-50
Misc : op92825,ez5486
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 14 13:08:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Apr 14 10:27:46 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/05/16 16:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110383.D
Acq On : 5 May 2016 9:50 am
Operator : ariellec
Sample : cc5485-25
Misc : op93086,ez5515
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 10:44:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.176	152	189324	40.00	ppm	0.00
24) Naphthalene-d8	5.105	136	698804	40.00	ppm	0.00
47) Acenaphthene-d10	6.377	164	461447	40.00	ppm	0.00
69) Phenanthrene-d10	7.963	188	736875	40.00	ppm	0.00
83) Chrysene-d12	12.868	240	741015	40.00	ppm	0.00
92) Perylene-d12	15.859	264	791172	40.00	ppm	0.02
102) 1,4-Dichlorobenzene-d4a	4.176	152	189324	40.00	ppm	0.00
104) Phenanthrene-d10a	7.963	188	736875	40.00	ppm	0.00
106) Chrysene-d12a	12.868	240	741015	40.00	ppm	0.00
108) Acenaphthene-d10a	6.377	164	461447	40.00	ppm	0.00
110) Naphthalene-d8a	5.105	136	698804	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.273	112	135897	20.79	ppm	0.02
Spiked Amount 50.000			Recovery	=	41.58%	
8) Phenol-d5	4.037	99	201486	26.30	ppm	0.00
Spiked Amount 50.000			Recovery	=	52.60%	
25) Nitrobenzene-d5	4.608	82	170010	30.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	60.30%	
51) 2-Fluorobiphenyl	5.869	172	348828	23.59	ppm	0.02
Spiked Amount 50.000			Recovery	=	47.18%	
73) 2,4,6-Tribromophenol	7.141	330	60425	26.68	ppm	0.03
Spiked Amount 50.000			Recovery	=	53.36%	
86) Terphenyl-d14	10.731	244	387450	24.89	ppm	0.10
Spiked Amount 50.000			Recovery	=	49.78%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.606	88	63051	22.44	ppm	85
3) Pyridine	1.943	79	76339	17.27	ppm	95
4) N-Nitrosodimethylamine	1.916	74	81363m	22.10	ppm	
6) Indene	4.368	116	275528	22.90	ppm	94
7) Cumene	3.556	105	363513	23.68	ppm	97
9) Phenol	4.047	94	165016	21.22	ppm	93
10) Aniline	3.973	93	188214	21.04	ppm	99
11) bis(2-Chloroethyl)ether	3.999	93	128570	24.14	ppm	87
12) 2-Chlorophenol	4.069	128	153413	21.39	ppm	98
13) Decane	4.042	43	153345	23.20	ppm	78
14) 1,3-Dichlorobenzene	4.133	146	181818	23.31	ppm	96
15) 1,4-Dichlorobenzene	4.192	146	177668	24.01	ppm	91
16) Benzyl alcohol	4.331	108	68073	20.74	ppm	96
17) 1,2-Dichlorobenzene	4.309	146	167333	23.34	ppm	92
18) Acetophenone	4.491	105	204636	24.52	ppm	90
19) 2-Methylphenol	4.459	108	133489	21.96	ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.389	121	36829	19.78	ppm #	51
21) 3&4-Methylphenol	4.576	108	141620	22.34	ppm	94
22) n-Nitroso-di-n-propyla...	4.491	70	116160	26.91	ppm	93
23) Hexachloroethane	4.544	201	70859	32.86	ppm	90
26) Nitrobenzene	4.619	77	171310	30.14	ppm	93
27) Quinoline	5.372	129	304907	23.05	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110383.D
Acq On : 5 May 2016 9:50 am
Operator : ariellec
Sample : cc5485-25
Misc : op93086,ez5515
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 10:44:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Isophorone	4.779	82	283167	28.61	ppm	88
29) 2-Nitrophenol	4.849	139	83155	23.55	ppm	85
30) 2,4-Dimethylphenol	4.924	107	152788	27.50	ppm	84
31) Benzoic Acid	5.062	105	99311m	24.78	ppm	
32) bis(2-Chloroethoxy)met...	4.945	93	151129	24.62	ppm	96
33) 2,4-Dichlorophenol	5.057	162	127297	26.02	ppm	97
34) 2,6-Dichlorophenol	5.196	162	135847	28.38	ppm	99
35) 1,3,5-Trichlorobenzene	4.833	180	158793	29.04	ppm	96
36) 1,2,4-Trichlorobenzene	5.062	180	144792	28.41	ppm	95
37) 1,2,3-Trichlorobenzene	5.228	180	139780	28.20	ppm	95
38) Naphthalene	5.121	128	448539	23.38	ppm	98
39) 4-Chloroaniline	5.196	127	179055	23.45	ppm	90
40) 2,3-Dichloroaniline	5.837	161	157040	25.57	ppm	97
41) Caprolactam	5.463	55	54561	21.93	ppm	85
42) Hexachlorobutadiene	5.201	225	94280	41.64	ppm	97
43) 4-Chloro-3-methylphenol	5.591	107	138350	26.66	ppm	96
44) 2-Methylnaphthalene	5.607	141	251202	23.52	ppm	88
45) 1-Methylnaphthalene	5.677	141	267908	23.43	ppm	96
46) Dimethylnaphthalene	6.045	156	286727	25.95	ppm	99
48) Hexachlorocyclopentadiene	5.714	237	181698	59.07	ppm	83
49) 2,4,6-Trichlorophenol	5.842	196	95225	24.99	ppm	94
50) 2,4,5-Trichlorophenol	5.891	196	97078	23.52	ppm	91
52) 2-Chloronaphthalene	5.955	162	284461	21.75	ppm	98
53) Biphenyl	5.939	154	385104	21.02	ppm	95
54) 2-Nitroaniline	6.072	65	94334	26.76	ppm	94
55) Dimethylphthalate	6.179	163	345138	23.51	ppm	97
56) Acenaphthylene	6.264	152	494039	21.51	ppm	95
57) 2,6-Dinitrotoluene	6.232	165	77009	23.93	ppm	71
58) 3-Nitroaniline	6.398	138	75497	19.41	ppm	96
59) Acenaphthene	6.403	153	306572	22.31	ppm	96
60) 2,4-Dinitrophenol	6.478	184	72640	44.36	ppm	75
61) 4-Nitrophenol	6.665	109	47837	26.71	ppm	95
62) Dibenzofuran	6.553	168	416400	21.94	ppm	97
63) 2,4-Dinitrotoluene	6.580	165	106221	25.38	ppm	78
64) 2,3,4,6-Tetrachlorophenol	6.703	232	86302	26.34	ppm	90
65) Diethylphthalate	6.772	149	356579	23.67	ppm	92
66) Fluorene	6.868	166	346697	22.19	ppm	91
67) 4-Chlorophenyl-phenyle...	6.868	204	178988	27.79	ppm	94
68) 4-Nitroaniline	6.986	138	80557	20.70	ppm	98
70) 4,6-Dinitro-2-methylph...	6.975	198	58875	26.86	ppm	86
71) n-Nitrosodiphenylamine	7.007	169	243502	22.73	ppm	98
72) 1,2-Diphenylhydrazine	7.034	77	337867	26.38	ppm	93
74) 4-Bromophenyl-phenylether	7.392	248	105304	27.54	ppm	95
75) Hexachlorobenzene	7.472	284	120727	28.16	ppm	95
76) Pentachlorophenol	7.776	266	126951	55.79	ppm	98
77) Phenanthrene	7.995	178	484469	22.97	ppm	98
78) Anthracene	8.065	178	501841	23.10	ppm	98
79) Carbazole	8.364	167	466807	22.53	ppm	97
80) Di-n-butylphthalate	8.920	149	619702	24.30	ppm	98
81) Fluoranthene	9.924	202	564810	25.65	ppm	98

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110383.D
Acq On : 5 May 2016 9:50 am
Operator : ariellec
Sample : cc5485-25
Misc : op93086,ez5515
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 10:44:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
82) Octadecane	7.808	57	177440	19.40 ppm	93
84) Pyrene	10.335	202	592316	23.70 ppm	89
85) Butyl stearate	12.039	56	128874	19.08 ppm	95
87) Butylbenzylphthalate	11.847	149	281480	23.60 ppm	97
88) Benzo[a]anthracene	12.846	228	550295	25.43 ppm	98
89) 3,3'-Dichlorobenzidine	12.948	252	195076	24.96 ppm	93
90) Chrysene	12.921	228	525806	24.89 ppm	94
91) bis(2-Ethylhexyl)phtha...	13.167	149	383034	22.82 ppm	95
93) Di-n-octylphthalate	14.566	149	663756	21.77 ppm	97
94) Benzo[b]fluoranthene	15.117	252	576865	23.10 ppm	98
95) Benzo[k]fluoranthene	15.165	252	546341	24.37 ppm	95
96) Benzo[a]pyrene	15.731	252	547041	24.61 ppm	95
97) Indeno[1,2,3-cd]pyrene	17.777	276	551136	24.80 ppm	91
98) Dibenz(a,h)acridine	17.414	279	478506	22.74 ppm	95
99) Dibenz[a,h]anthracene	17.820	278	544089	23.26 ppm	96
100) 7,12-Dimethylbenz(a)an...	15.111	256	260573	22.93 ppm	95
101) Benzo[g,h,i]perylene	18.204	276	543815	22.77 ppm	97

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

7.6.141

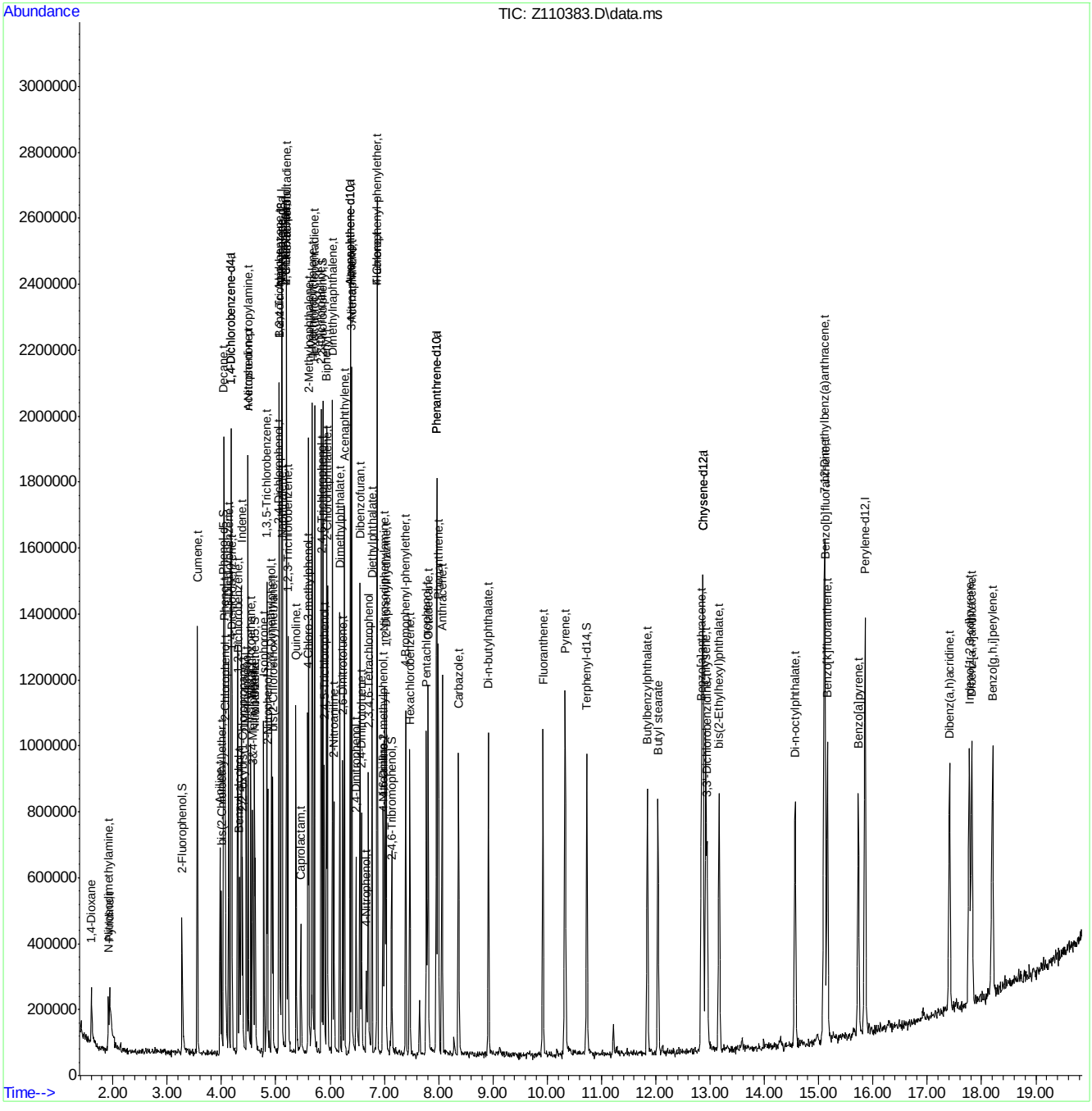
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110383.D
Acq On : 5 May 2016 9:50 am
Operator : ariellec
Sample : cc5485-25
Misc : op93086,ez5515
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 10:44:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration



MZ5485.M Thu May 05 10:44:29 2016 RTE Page: 4

SGS ACCUTEST JC19423

Manual Integration Approval Summary

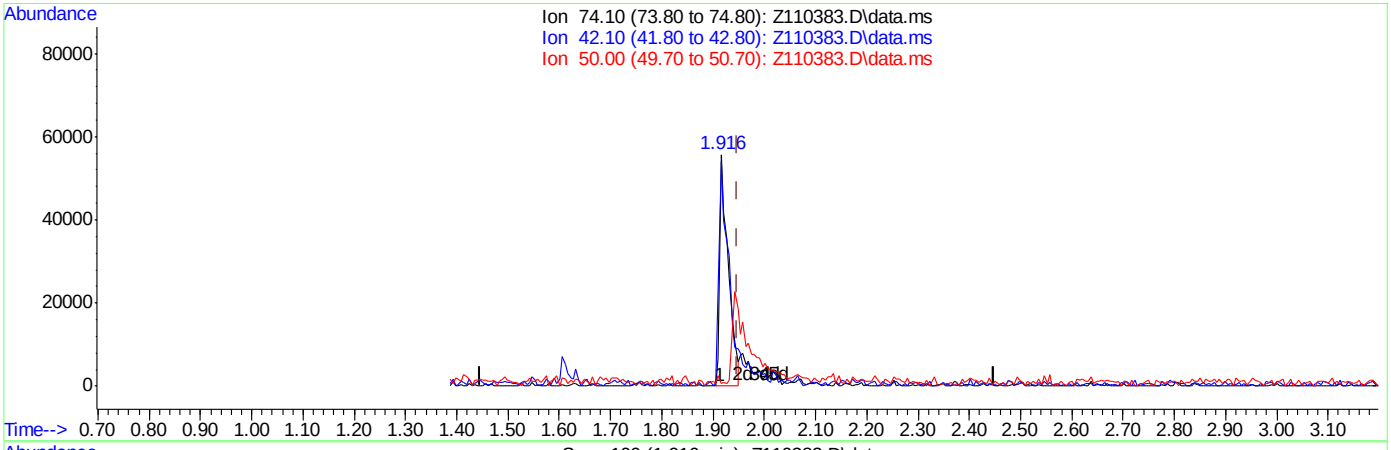
Sample Number:	EZ5515-CC5485	**Method:**	SW846 8270D
Lab FileID:	Z110383.D	**Analyst approved:**	05/05/16 11:52 Arielle Cocozza
Injection Time:	05/05/16 09:50	**Supervisor approved:**	05/05/16 16:22 Nina Pandya

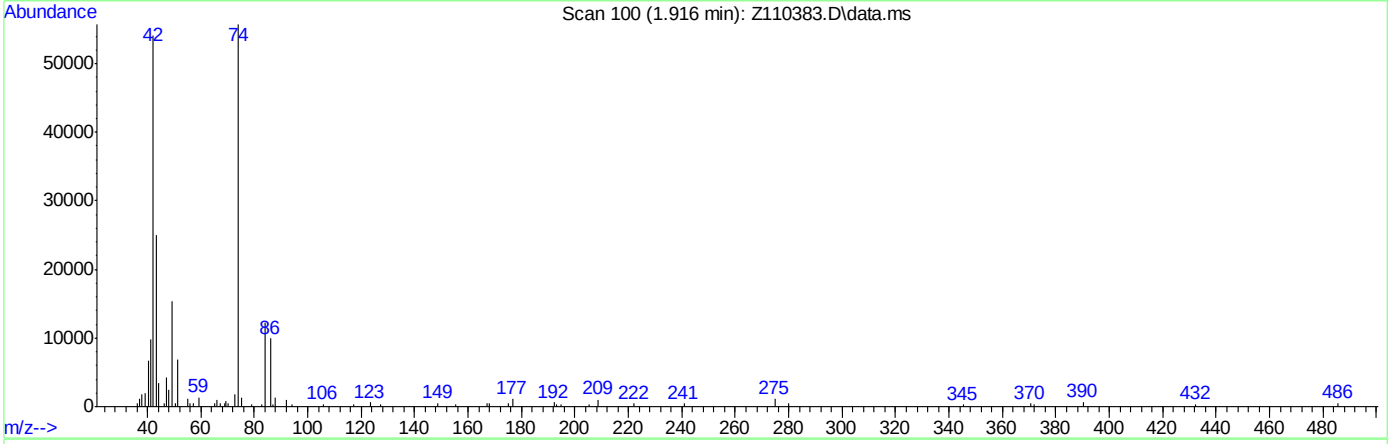
Parameter	CAS	Sig#	R.T. (min.)	Reason
n-Nitrosodimethylamine	62-75-9		1.92	Poor instrument integration
Benzoic acid	65-85-0		5.06	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110383.D
Acq On : 5 May 2016 9:50 am
Operator : ariellec
Sample : cc5485-25
Misc : op93086,ez5515
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 10:10:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration





TIC: Z110383.D\data.ms

(4) N-Nitrosodimethylamine (t)

1.916min (-0.032) 17.19ppm

response 63280

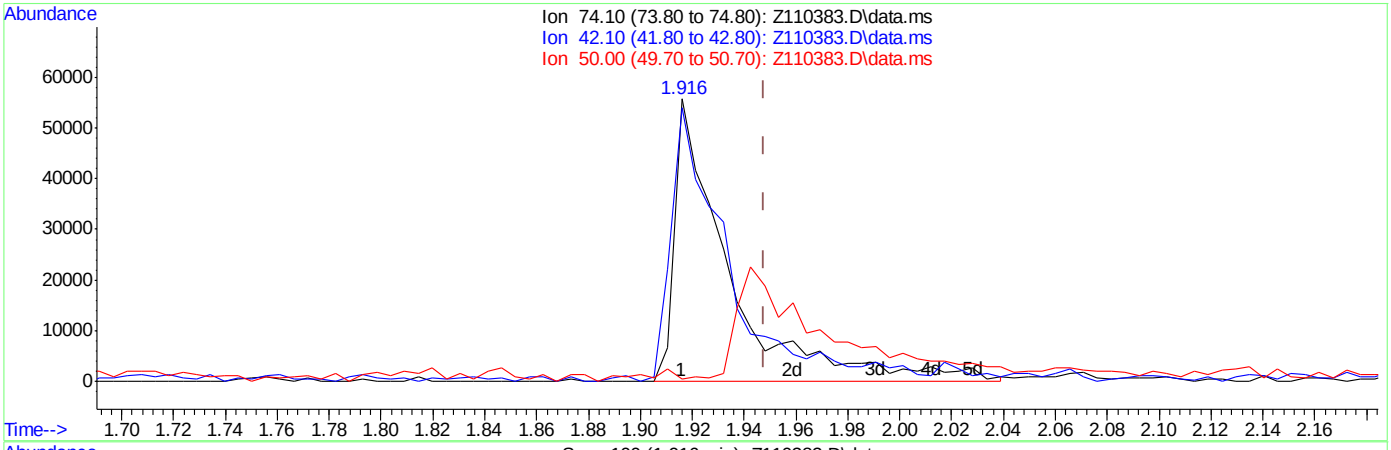
Ion	Exp%	Act%
74.10	100	100
42.10	94.50	93.16
50.00	0.00	0.00
0.00	0.00	0.00

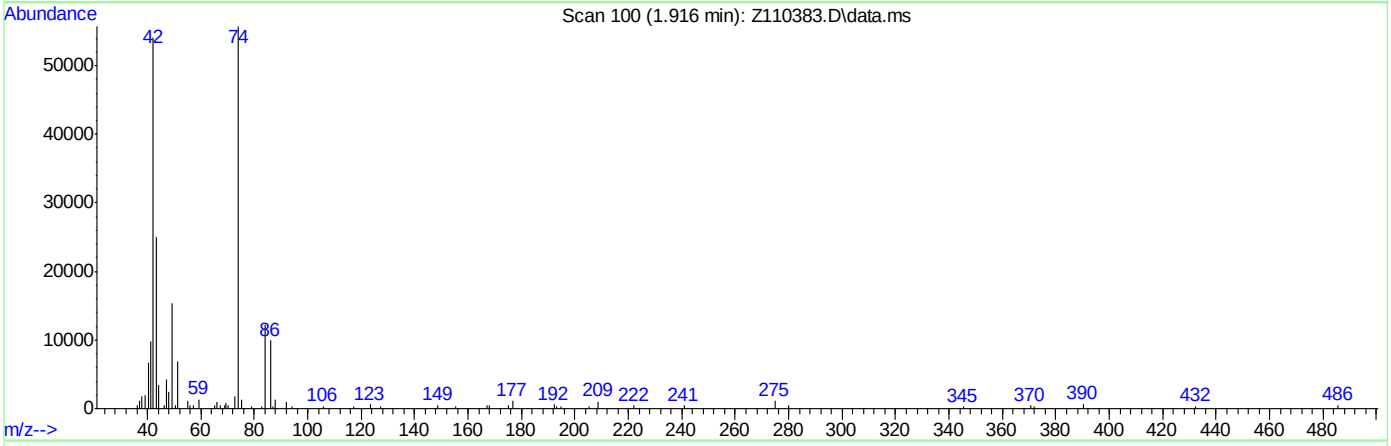
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110383.D
Acq On : 5 May 2016 9:50 am
Operator : ariellec
Sample : cc5485-25
Misc : op93086,ez5515
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 10:10:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration





TIC: Z110383.D\data.ms

(4) N-Nitrosodimethylamine (t)

1.916min (-0.032) 22.10ppm m

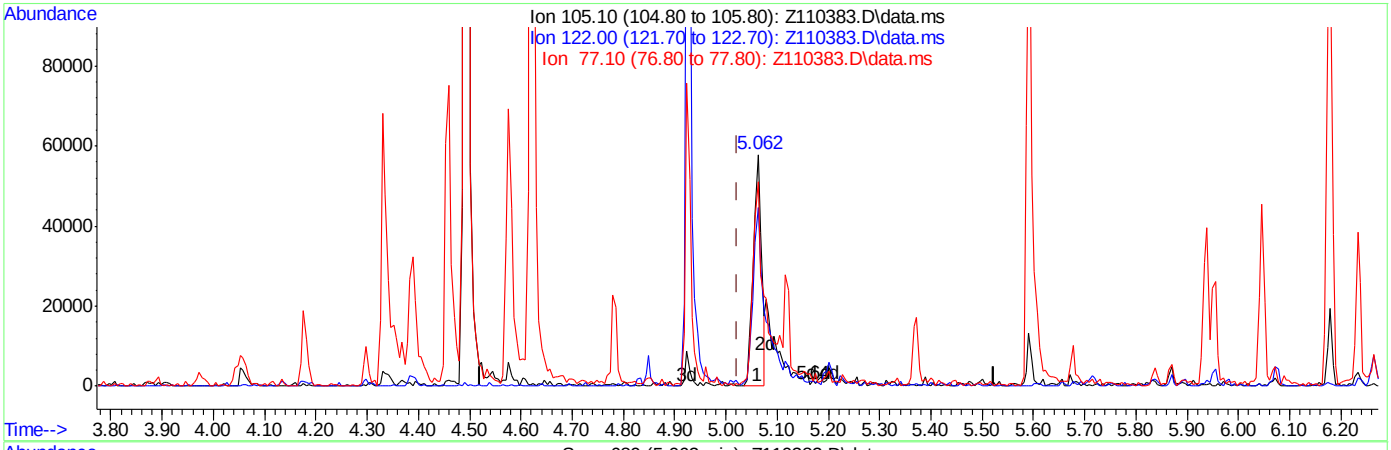
response 81363

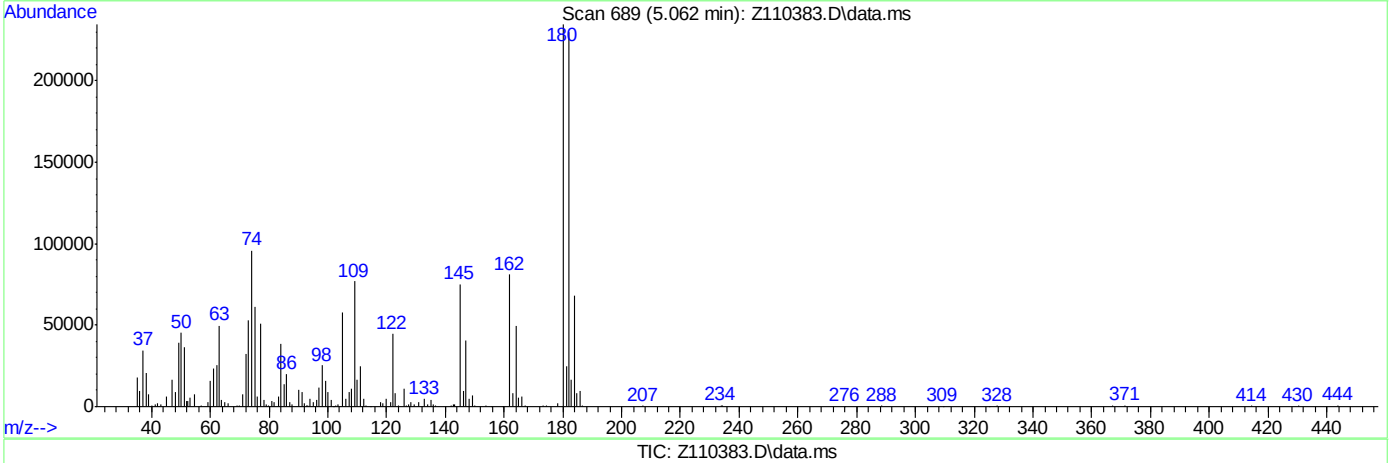
Ion	Exp%	Act%
74.10	100	100
42.10	94.50	96.97
50.00	0.00	0.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110383.D
Acq On : 5 May 2016 9:50 am
Operator : ariellec
Sample : cc5485-25
Misc : op93086,ez5515
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 10:43:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration





(31) Benzoic Acid

5.062min (+0.040) 15.78ppm

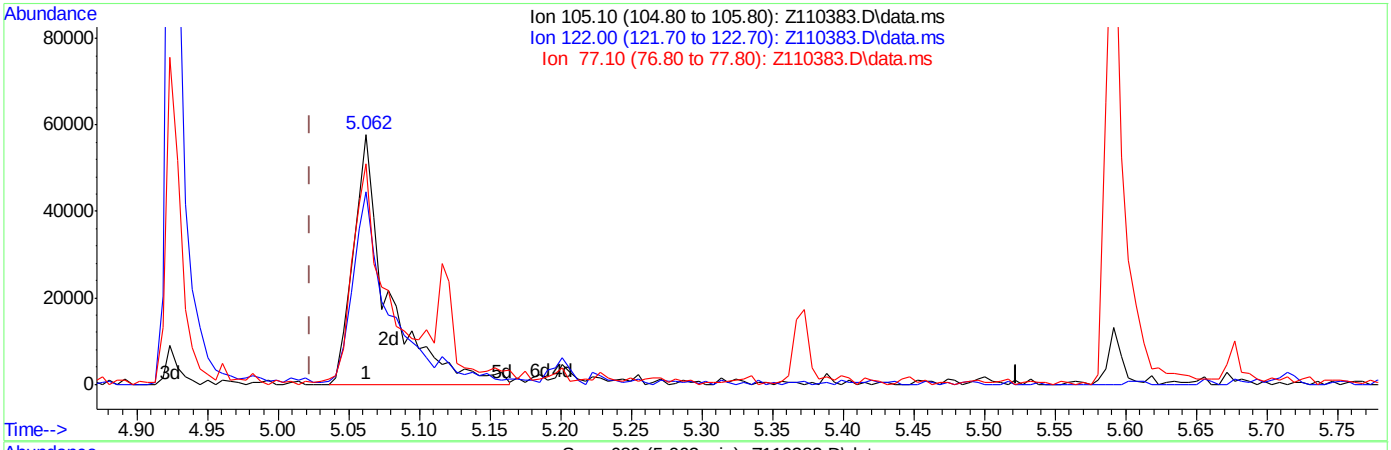
response 63223

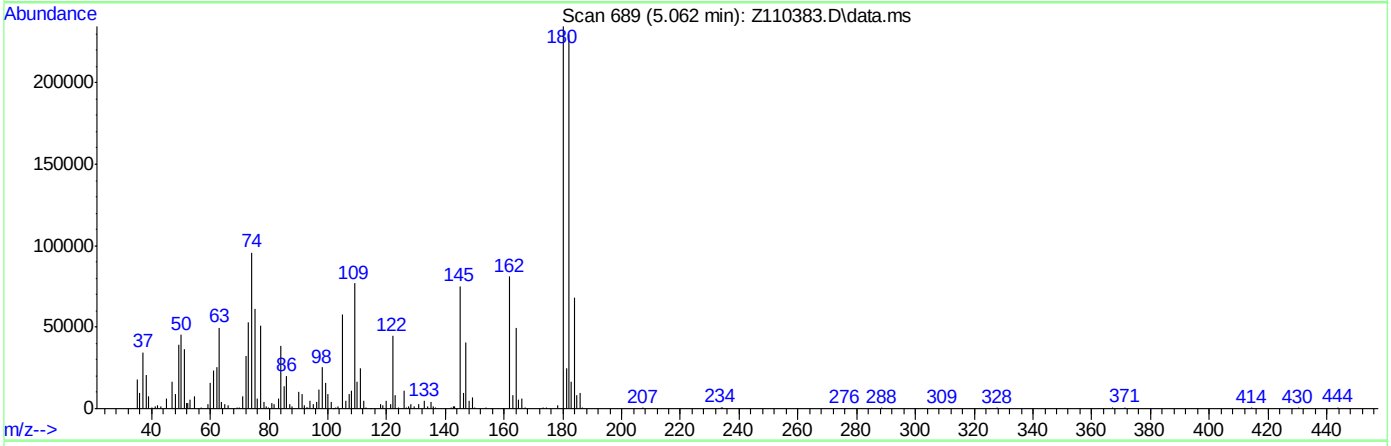
Ion	Exp%	Act%
105.10	100	100
122.00	92.10	70.88#
77.10	83.70	80.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110383.D
Acq On : 5 May 2016 9:50 am
Operator : ariellec
Sample : cc5485-25
Misc : op93086,ez5515
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 10:43:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration





TIC: Z110383.D\data.ms

(31) Benzoic Acid

5.062min (+0.040) 24.78ppm m

response 99311

Ion	Exp%	Act%
105.10	100	100
122.00	92.10	77.08
77.10	83.70	88.18
0.00	0.00	0.00

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110384.D
Acq On : 5 May 2016 10:19 am
Operator : ariellec
Sample : cc5486-25
Misc : op93086,ez5515
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 05 11:49:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.176	152	172093	40.00	ppm	0.00
24) Naphthalene-d8	5.105	136	673172	40.00	ppm	0.00
47) Acenaphthene-d10	6.371	164	410489	40.00	ppm	0.00
69) Phenanthrene-d10	7.963	188	694979	40.00	ppm	0.00
83) Chrysene-d12	12.857	240	699951	40.00	ppm	0.00
92) Perylene-d12	15.854	264	703156	40.00	ppm	0.02
102) 1,4-Dichlorobenzene-d4a	4.176	152	172093	40.00	ppm	0.00
104) Phenanthrene-d10a	7.963	188	694979	40.00	ppm	0.00
106) Chrysene-d12a	12.857	240	699951	40.00	ppm	0.00
108) Acenaphthene-d10a	6.371	164	410489	40.00	ppm	0.00
110) Naphthalene-d8a	5.105	136	673172	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
103) Benzaldehyde	3.866	105	94721	20.85	ppm	87
105) Atrazine	7.654	215	50109	28.98	ppm #	77
107) Benzidine	10.314	184	180975	18.92	ppm	78
109) 1,2,4,5-Tetrachloroben...	5.725	216	149761	28.46	ppm	94
111) Hydroquinone	5.522	110	129295	29.07	ppm	83

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

7.6.142

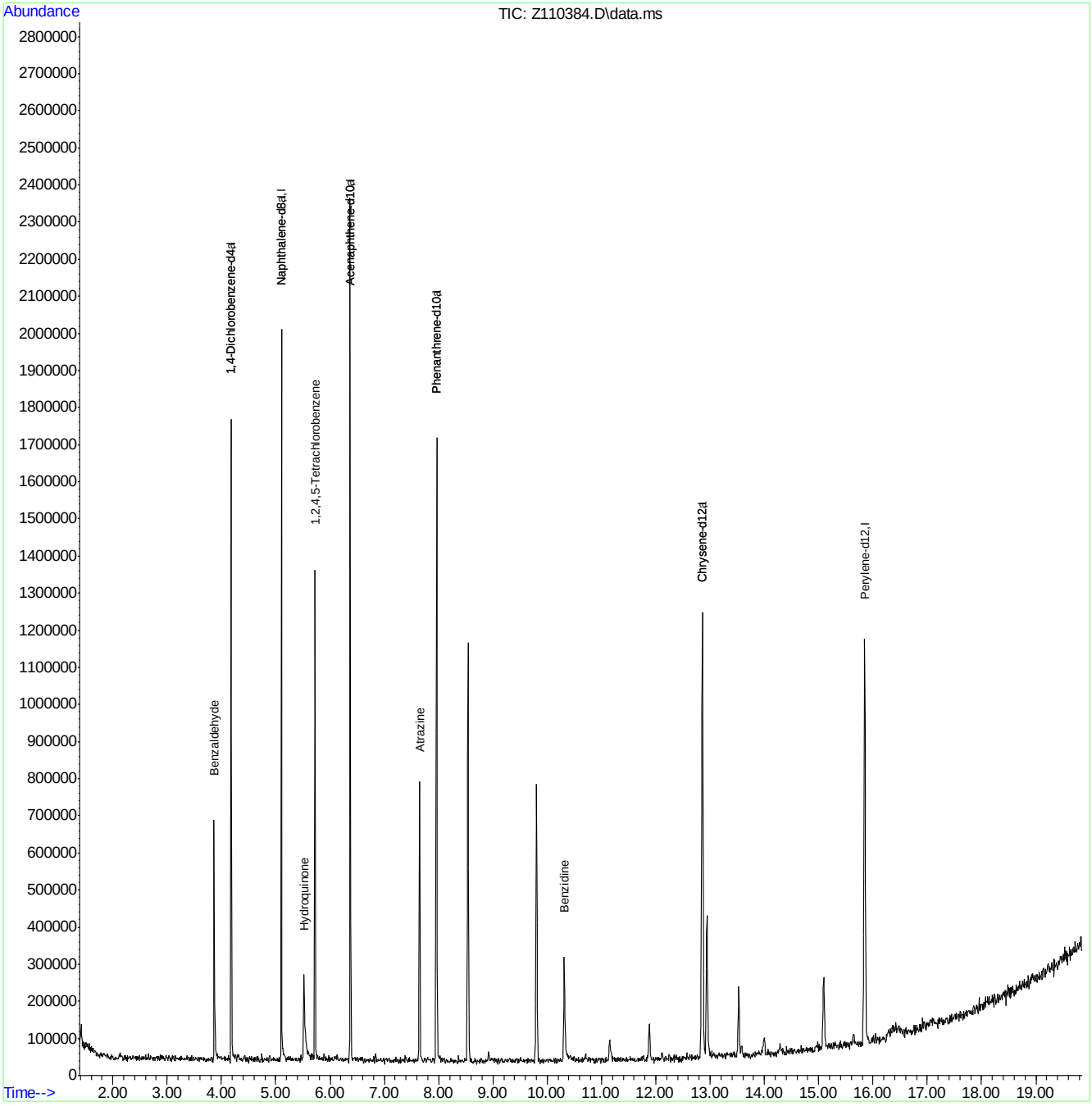
7

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5515\
Data File : Z110384.D
Acq On : 5 May 2016 10:19 am
Operator : ariellec
Sample : cc5486-25
Misc : op93086,ez5515
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 05 11:49:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5485.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu May 05 08:25:11 2016
Response via : Initial Calibration



MZ5485.M Thu May 05 11:49:22 2016 RTE

Page: 2

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3621

Print Analyst Name: Ashley M. Dye

Analyst Signature: AMD

Date: 4/26/2016

Columns: ZB5msplus30mx.25mmx.25µ

Method 8270D/625

Initial Cal. Method ~~V13E3591~~ 3620

Injection Volume: 1µL AMD 4/26/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 1	

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: 4/27/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3E82667	DFTPP				1					RR	RR ions at
	82668	DFTPP				1					OK	1:15PM
	82669	IC3621-100		~~BNA~~ TCL42W AMD 4/26/16		2					OK	SV151827-73A
	82670	-80				3					OK	-73B
	82671	IC3621-50				4					OK	-73C
	82672	IC3621-25				5					OK	-73D
	82673	-10				6					OK	-73E
	82674	-5				7					OK	-73G
	82675	-2				8					OK	-73H
	82676	-1				9					OK	-73I
	82677	ICV3620-50		Acids		10					OK	SV151827-129
	82678	ICV3620-50		Anilines		11					OK	-130
	82679	ICV3620-50		ABN SUR		12					OK	OP161712 33
	82680	ICV3620-50		BM		13					OK	SV161935-1 benzidine NO #89
	82681	ICV3620-50		BN2		14					OK	SV151827-134 #100
	82682	ICV3621-50		Benzidines		15		ANY	29		OK	good for #89. benz. ok can't [illegible] SV151827-38C
	82683	ICV3621-50		HQ		16					OK	-98D 7:40PM

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

SGS ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E3E3622

Print Analyst Name: Ashley N.

Analyst Signature: AM

Date: 4/27/16

Columns: ZB5msplus 30mx.25mmx.25

Method: 8270D/625

Initial Cal. Method: M3E3620

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151527-91	dfTPP	50ppm
QMS732	Internal Std	4000ppm
162418	dam (Fisher)	—

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: AWO

Date: 4/27/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	E82684	dfTPP			W	1					OK	9:39AM
	82685	ICV3620-50		Benzidine std		2					OK	~~benzidine~~ SV161935148 11:46
												cannot run for benzidine

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: QR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3623

Print Analyst Name: Ashley N.

Analyst Signature: dM

Date: 4/27/16

Columns: ZB5msplus 30mx.25mmx.25µm

Method 8270D/625

Initial Cal. Method M3E3623

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SU 151827-9	dftpp	50ppm
-107E	BNA	50ppm
not run →	~~TCMX~~	~~50ppm~~
CM(73)	Internal Std	400ppm
162418	Chem (Fisher)	—

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: AMO

Date: 4/28/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3E82686	dftpp			W	1					not using	12:24pm reinstall
	82687	CC3620-50		BNA		2					↓	2:49 heavy PAH's ↑ reinstall
	82688	dftpp			W	1					NG	127 reinject
	82689	dftpp				1					↓	127 retune.
	82690	dftpp			W	1					not using	127 retune
	82691	DFTPP			W	1						127 retune
	82692	DFTPP			W	1						abundances retune
	82693	DFTPP			W	1						abundances retune
	82694	DFTPP			W	1					OK	321PM. recalibrate.
	82695	CC3620SU			W	2					not using	heavy PAH's ↓
	82696	icc3623-50		BNA		~~23~~ 5					OK	SV151827-107E
	82697	ic3623-100				~~32~~ 3					OK	-106A
	82698	-80				4					OK	-106B
	82699	-25				5					OK	-107F
	82700	-10				6					OK	-106E
	82701	-5				7					OK	-106G
	82702	-2				8					OK	2nd 106H ran before 82696

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3623

Print Analyst Name: Ashley N.

Analyst Signature: AN

Date: 4/27/16

Columns: ZB5msplus30mx.25mmx.25µ

Method 8270D 1625

Initial Cal. Method M3E3623

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page #7	

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: AMC Date: 4/28/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3E82703	ic3623-1		BNA		9					OK	SV151877-106I
	82704	icv3623-5D		Acids		10					OK	~~-129~~ -114 AN 4/27/16 (a)
	82705	icv3623-5D		Anilines		11					OK	~~-130~~ -115 AN (a) 4/27
	82706	icv3623-5D		ABNsum		12					OK	OP16171233
	82707	icv3623-5D		BN1		13					OK	SV161935-1 [No #8
	82708	icv3623-5D		BN2		14					OK	(a) AN 4/27/16 134 contin SV151877 ~~35E~~ [100 ↓ NOS
	82709	icv3623-5D		Benzidine 3rd		15					OK	SV161935-14B
	~~82710~~ AN 4/27/16 (a)											9:44pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3634

Print Analyst Name: Ashley N.

Analyst Signature: AN

Date: 5-4-16

Columns: ZB5ms 30m x .25mm x .25µ

Method 8270D/1625

Initial Cal. Method M3E3623

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 15877-91	dftpp	50ppm
16435-198	BNA	25ppm
15877-74 N	TCL42	↓
CM5732	Internal Std	4000ppm
1626041	dcm (Aswer)	—

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: 5/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3E82871	dftpp			W	1					NG	127↑ reinject
	82872	dftpp				1					NG	127↑ reinjec
	82873	dftpp				1					not using	1:02pm
	82874	CC3623-25		BNA		2					↓	
	82875	CC3623-75	1 AMO 5/4/16	TCL42		3					↓	acceptable + EMLOHS
	82876	OP93477-MB1	93477-1	ABS270	S	4					not run	Sequence change
	82877	JC19164-5		ABTCL20 + BNZALC		5					↓	
	82878	-10		↓		6					↓	
	82879	dftpp			W	1					NG	127↑ 443L reinject
	82877	dftpp				1					not using	127↑ 443L reinjec
	82878	DFTPP				1					NG	127↑ reinject
	82879	DFTPP				1					OK	2:27PM
	82880	CC3623-25		BNA	W	2					OK	
	82881	CC3621-75		TCL42		3					OK	
	82882	OP93477-MB1	93477-1	ABS270	S	4			↑		RR	
	82883	JC19164-5		ABTCL20 + BNZALC		5		+	/	\	OK	
	82884	-10		↓		6		+	/	\	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.4

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3634

Print Analyst Name: Ashley N.

Analyst Signature: AN

Date: 5-4-2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page #41	

Columns: ZBSMS(P) 30m x 25mm x .25µm

Method 8270D 1625

Initial Cal. Method M3E3623

Injection Volume: 1µL

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: AMO Date: 5/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
R	E3E82885	OP93477-MB1	93477-1	AB8270	S	4		+			OK	RR.
	82886	OP93548-MB1	93548-1		S	8		+			OK	
	82887	OP93404-MB1	93404-1		S	9		+			OK	
	82888	OP93534-MB1	93534-1		W	10		+			OK	
	82889	JC18857-22	93404-1	ABTCL11	S	11					OK	
	82890	JC19200-4	93548	ABTCL20	S	12		+			OK	
	82891	JC19202-1				13		+			OK	
	82892	JC19200-3				14	20				OK	
	82893	-10				15	5				OK	
	82894	-5				16	4				OK	
	82895	JC19390-15		ABTCL20 + BENZALC		17	4				OK	
	82896	JC19382-2	93534-1	BNTCL20	W	18		+			OK	
	82897	-1				19		+			OK	
	82898	-3				20		+			OK	
	82899	OP93520-MS1	93520-1	AB8270	S	21			SU		OK	I.S. confirmed by MS
	82900	JC18964-13	93477-1		S	22	50				OK	
	82901	-8				23					OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E 3634

Print Analyst Name: Ashley N.

Date: 5-4-16

Analyst Signature: AM

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 43	

Columns: ZB5ms (1) 30mx25mmx25µm

Method 8270D 1625

Initial Cal. Method M3E 3623

Injection Volume: 1µL

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: AMO Date: 5/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3E82902	JC18964-7	93477-1		S	24			25 ↓	NOE ↑	OK	RR 1:2 for 1,3,5 silver.
	82903	-11				25	ANSMILK				OK	
	82904	-16				26	Z				OK	dil. carried from 2M
	82905	-4				27					OK	
	82906	-14				28					OK	1:57AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07

Rev. Date: 1/19/16

7.7.4

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3643

Print Analyst Name: Ashley N.

Analyst Signature: [signature]

Date: 5-11-16

Columns: ZB5ms plus 30mx25mmx.25

Method 8270D 1625

Initial Cal. Method M3E3623

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 157827-91	dftpp	50ppm
161935-19B	BNA	25ppm
157827-127D	TCL42	↓
CMS732	Internal Std	4000ppm
1621061	DCM (Fisher)	—

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: AMC.

Date: 5/13/16

R	Data File 7	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	E83086	dftpp			W	1					OK	9:05AM
	83088	CC3623-25		BNA		2					OK	42↑
	83089	CC3621-25		TCL42		3					OK	benzidine ✓ AZ, AHR2, 1245TCB↑
	83090	TCL42 wout 2ppm				4					OK	SV157827-128C ✓
	83091	DP93597-MB1	935971	AB8270 ⊕	S	5		+			OK	
	83092	-BS1				6					OK	1245TCB↑
	83093	JC18666-9P	93597A-1	SIM PAH	S	7					OK	
	83094	JC19414-1	93597-1	BPAH	S	8					OK	
	83095	DP93597-MS		AB8270		9					OK	
	83096	-MSD		↓		10					OK	
R	83097	JC19851-1	93751-1	AB8PL ⊕	S	11	5	x	4.5 ↓		OK	diluted due to matrix VE5mL RR1.2 1.5
↓	83098	JC19852-1		↓		12	2	x	4.5		OK	RR1.2 1.5 ↓
	83099	-2				13	10		4.5 ↓		OK	VE5mL
R	83100	JC19511-1	93596-1	ABTCL20	S	14	2		3.45 ↓		not using	remake + RR. CF1
R	83101	JC19596-13A	93678-1	ABTCL20 ⊕	S	15	5		4.58 ↓		↓	↓
	83102	JC19511-7	93597-1	ABTCL20	S	16			3.45 ↓		OK	RR1.5 (1:2)
	83103	-8		↓		17			3.45 ↓		OK	RR1.5 (1:2) ↓ No hits.

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3643

Print Analyst Name: Ashley N.

Date: 5-11-2016

Analyst Signature: AN

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page #	75

Columns: ZB5msⓟ30mx.25mmx.25µm

Method 8270D/625

Initial Cal. Method M3E3623

Injection Volume: 1µL

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: AMⓟ. Date: 5/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3E83104	JC19511-9	93597-1	ABTCL20	S	18			3.6 ↓	\	OK	RR1.5(1:2)
	83105	JC19423-1		ABSL +2MNAP +NWBP		19			/	\	OK	
	83106	JC19473-3		↓		20			/	\	OK	
	83107	JC19439-1		ABTCL20		21			/	\	OK	
	83108	JC19445-1		ABTCL20ⓟ		22		x	/	/	ok	ran after 3E83102
	83109	JC19857-4	93754	ABTCL20ⓟ	S	23		+	/	\	OK	
	83110	JC19540-8R		BTCL20ⓟ		24			4.6 ↓	\	RR	RR1.5(1:2)
	83111	-3R				25			4.5 ↓	\	RR	RR1.5(1:2) 8:48p
	83112	JC19820-2				26			4.5 ↓	\	RR	outside clocktime 9:15p
	83113	-1				27					not run	cut from sequence.
	83114	JC19820-3				28						
	83115	-4		↓		29					↓	
	83116	OP93781-MB1	93781-1	ABS8270	W	30	(test)		3.56 ↓		RX	RX batch ran after 3E83099
R	83117	JC19851-1	93751-1	ABPPLB		31	10		4.5 ↓	\	OK	VF=5mL. CF1 run.
R	83118	JC19852-1				32	4		4.5 ↓	\	OK	
												AN

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E3M2855

Date: 4/21/16

Analyst Signature: JK

Columns: Rxi-5SilMS 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M8M2855sim

Injection Volume: 1ul

Standard Data		
Lot #	Description	Conc.
		1/4/2016

Standard Data		
Lot #	Description	Conc.
SVI51827-68	DFTPP	50ppm
SVI51827-73	SIM Internal	40ppm
159148	Dimethylsulfone	—

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: 4-22-2016

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3m60750	Condition			W	100					Condition	
	60755				W	100						
	60760	Condition			W	99						
	60761	DFTPP ~~ICC2855-1.0~~ 4/21/16		4/21/16 ~~BRASIM~~	W	1					~~ok~~	deg↑ reinstead
	60762	DFTPP			W	1					OK	1:31pm
	60763A	ICC2855-1.0			W	2					ok	SVI51827-104C
	60764A	IC2855-0.5				3					ok	104D
	60765A	IC2855-0.2				4					OK	104E
	60766	IC2855-0.1				5					ok	104F
	60767	IC2855-0.05				6					OK	104G
	60768	IC2855-0.02				7					ok	104H
	60769	IC2855-0.01				8					ok	104I
	60770	IC2855-5.0				9					ok	104A
	60771	IC2855-2.5				10					OK	104B
	60772	ICV2855-1.0		Acid		11					ok	SVI51827-27
	60773	ICV2855-1.0		BN1		12					ok	OP16A12-28
	60774	ICV2855-1.0		BN2		13					ok	SVI51829-85 8:35pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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All strikeouts 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: OR015-05
Rev. Date: 1/16/2006

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2868

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 5/2/16

Columns: ZB-5ms 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method M3M2855sim

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.
		AMC 5/2/16 (+)

Standard Data

Lot #	Description	Conc.
SMS 89108	DFTPP	50 ppm
SMS 19359A	BLASIM	1 ppm
-7	SIM Internal	40 ppm
1602489	DCM-(Fisher)	—

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: AMC

Date: 5/3/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M60987	DFTPP			W	1					NG	Abnl ↓ reinjected
	60988	DFTPP			W	1					↓	Abnl ↓ reinjected
	60989	DFTPP			W	1					NG	Abnl ↑ Fm
	60990	DFTPP			W	1					NG	Abnl ↓ reinjected
	60991	DFTPP			W	1					NG	Abnl ↑ Fm
	60992	DFTPP			W	1					OK	1238PM.
	60993	CC2855-1.0		BLASIM	W	2					OK	
	60994	OP93524MB1	925324	BS270		3			/	/	OK	
	60995	+SD2				4			/	/	OK	
	60996	JC19384		B3MMS +1,4 div		5			/	/	OK	
	60997	JC19382-1		B3MMS +1,4 div		6			/	/	OK	
	60998	-2				7			/	/	OK	
	60999	-3				8			/	/	OK	
	61000	-4				9			/	/	OK	
	61001	JC19380-2		1,4 div		10			/	/	OK	
	61002	-3				11			/	/	OK	
	61003	-4				12			/	/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3m 2868

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 5/2/16

Columns: ZB-5ms 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M3m2868.m

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Pg 15	

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: AMO

Date: 5/3/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3m61004	JC19330-5	935341	1,4dioxane	W	13			/	/	OK	
	61005	-8				14			/	/	OK	
	61006	-9				15			/	/	OK	
	61007	-10				16			/	/	OK	
	61008	-11				17			/	/	OK	
	61009	-12				18			/	/	OK	
	61010	-13				19			/	/	OK	
	61011	-14				20			/	/	OK	
	61012	JC19423-2		1,4dioxane		21			/	/	OK	run by 8270
	61013	OP93534MS2		8270		22			/	/	OK	
	61014	-MSD2				23			/	/	OK	12:17AM
	61015	-MS				24			/		RR	Outside Clock 12:49AM
	61016	-MSD				25			/		RR	Outside Clock 1:22AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3M2872

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 5/5/16

Columns: 28-5ms 30m x .25mm x .25um

Method: 8270D/625

Initial Cal. Method: M3M2855.m

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV160408	DFTPP	50ppm
SV160925-9	SIMStd	1.0ppm
-7	SIM Internal	40ppm
1602041	DCM-Eluent	—

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: AMW

Date: 5/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M61090	DFTPP			W	1					ok	11:34AM
	61091	CC28555-10		BNASIM	W	2					OK	benzo(k) ↑ LESS
	61092	OR93559-MS	93559-1	8270	S	3			✓	✓	ok	
	61093	-6512				4			✓	✓	ok	
	61094	JC18[illegible]-9P		PCB		5					RR	CCV
	61095	JC19423-1		1,4dichlorobenzene		6					RR	Bad injection
	61096	JC19473-3		1,4dichlorobenzene		7			✓	✓	ok	
	61097	OR93559-MS		8270		8			✓	✓	ok	
	61098	-MSD				9			✓	✓	ok	4:10pm

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.8

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3M2874

Print Analyst Name: Linsey K

Analyst Signature: JK

Date: 5/6/16

Columns: 35-5ms 30m x .25mm x .25um

Method: 8270D/1625

Initial Cal. Method: M3M2855sim

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SHS182405	DFTPP	5ppm
SHT169559	SMSTD	10ppm
-7	SM Internal	40ppm
1602001	VCM (Fisher)	—

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: 5-9-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3m61120	DFTPP			W	1					OK	9:12AM
	61121	CC2855-1.0		Bnasim	W	2					OK	
	61122	CP93547-MB1	935471	BS270	S	3			✓	✓	OK	
	61123	-BS12				4			✓	✓	OK	
	61124	JC194231		1,4dichlorop		5			✓	✓	OK	
	61125	JC18aaa9P		Pcb		6			✓	✓	OK	Run after 3m61123
	61126	CP93602-MB1	936021			7			✓	✓	OK	
	61127	-BS12				8			✓	✓	OK	
	61128	JC19044-1		1,4dichlorop		9			✓	✓	OK	
	61129	-2				10			✓	✓	OK	
	61130	-3				11			✓	✓	OK	
	61131	JC19089-1		PCP		12			✓	✓	OK	Sent to RX
	61132	-2				13			✓	✓	OK	
	61133	-3				14			✓		ex	rr for internals
	61134	-4				15					not ran	cut from seq.
	61135	-5				16						
	61136	-6				17						

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.9

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2874

Print Analyst Name: Linsell K

Analyst Signature: [signature]

Date: 5/6/16

Columns: 30 5ms 0.25mm x .25mm x .25um

Method 8270D/625

Initial Cal. Method M3M2859 5ppm

Injection Volume:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Cell Rg 37	

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: 5-9-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M01137	JC196347	93602-1	PCP	W	18					not ran	cut from sequence.
	61138	OP93602-MS		8270		19			/	/	OK	
	61139	-MSD				20			/	/	OK	
	61140	JC19555-1	93609-1	Simpap	W	21			/	/	OK	
	61141	JC19186-7A	93618-1	BSIMNJ 1,4dioxane	W	22	5		/	/	OK	
	61142	JC18972-3	93723-1	1,4dioxane	S	23			/	/	OK	8:51pm
	61143	OP93723-MSD		B8270		24			/		W	out of check 9:22pm
	61144A	OP93677bd2	93677-1	B8270	W	25			✓	✓	OK	reran as "A" file bad in calib.
	61145	JC196409F		1,4Dioxx		26			✓	✓	OK	ran after 3M61130
	61146	OP93677mbl		B8270		27			✓	✓	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID ESP1382

Print Analyst Name: Sean Black

Analyst Signature: Sean F Black

Date: 4/11/16

Columns: ZB-5ms/ms+ 30m x .25mm x .25µ

Method 8270D/625

Initial Cal. Method MSP1382

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151825-108	DFTPP	50ppm
(GMS832)	(Std)	100ppm
162108	DCM (Fisher)	—

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: Amo.

Date: 4/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	SP 4/11/16											
	SP27316	DFTPP				1					NG	re-inject
	27317	DFTPP				1					NG	plunger leak then as SB PCPT 10ppm SB 4/11/16
	27318	SB 4/11/16 DFTPP				1					OK	10:17am
	27319	IC1382-100				2					OK	SV151827-60A
	27320	IC1382-80				3					OK	SV151827-60B
	27321	IC1382-50				4					OK	SV151827-60C
	27322	IC1382-25				5					OK	SV151827-60D
	27323	IC1382-10				6					OK	SV151827-60E
	27324	IC1382-5				7					OK	SV151827-60F SB 4/11/16
	27325	IC1382-2				8					OK	SV151827-60H
	27326	IC1382-1				9					OK	SV151827-60J 1:46pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: ESP1383

Print Analyst Name: [illegible]

Analyst Signature: [illegible]

Date: 4/11/16

Columns: DB 5ms 30m x 0.25mm x 0.25um

Method: 8270D/625

Initial Cal. Method: MSP1382

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
151916	DFTPP	50ppm
CUN5734	ISTD	40ug/ml
162108	DCM Ext.	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible]

Date: 4/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	SP27327	DFTPP			W	1					OK	245pm
	27328	ICV1383-100		TCL42		2					OK	SV15182773A
	27329	80				3					OK	73B
	27330	ICV1383-50				4					OK	73C
	27331	ICV1383-25				5					OK	73D
	27332	10				6					OK	73E
	27333	5				7					OK	73F
	27334	2				8					OK	73H
	27335	1				9					OK	73I
	27336	ICV1383-50 (2) (50) 4/11/16				10					OK	UP161712 33 ACN Surr
	27337	-50				11					OK	SV15182785 BN1
	27338	-50				12					OK	SV15182745 BN2
	27339	-50				13					OK	SV15182787 Acid
	27340	-50				14					OK	SV15182794 Amine
	27341	ICV1383-50				15					OK	SV15182338 BN2 300
	27342	-50				16					OK	SV15182791 HC 9:15pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E5P1414

Print Analyst Name: Ashley N.

Analyst Signature: AN

Date: 5-02-2016

Columns: ZB5MS(B) 30m x .25mm x .25µm

Method: 8270D/625

Initial Cal. Method: M5P1382

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15182708	dftpp	50ppm
SV15182614	BNA	50ppm
SV15182740	TCL42	50ppm
CW15732	internal std	4000ppm
162489	dom (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to compl with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	5P27872	dftpp			W	1					not using	Abundances not +50% of mass 198
	27873	dftpp			W	1					not using	51T retune
	27874	DFTPP			W	1					not using	442T retune
	27875	DFTPP			W	1					OK	1024am
	27876	cc1382-50		BNA	W	2					OK	
	27877	cc1383-50		TCL42	W	3					OK	
	27878	tcl42verf				4					OK	SV15182735 1ppm
	27879	op93534-mb1	93534-1	AB8270+	W	5		+	✓	✓	OK	
	27880	-bs1				6			✓	✓	OK	
	27881	JC19384-1		BNJTCL42+		7		+	✓	✓	OK	
	27882	op93403-mb1	93403-1	AB8270+	S	8		+	✓	✓	OK	
	27883	JC18930-6		AB8270+ 120PH+B2DINDMA		9		+	✓	✓	OK	
	27884	JC18918-19				10		+	✓	✓	OK	
	27885	-20				11		+	✓	✓	OK	
	27886	JC18912-36				12		+	✓	✓	OK	
	27887	JC18919-10				13		+	✓	✓	OK	
	27888	JC18912-35				14	5		✓	✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.12

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E5P1414

Print Analyst Name: Ashley Mayo

Date: 5-02-2016

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 17	

Columns: 7035MS (+) 30m x .25mm x .5µm

Method 8270D/625

Initial Cal. Method MSP1382

Injection Volume: 1µL

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: 5/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
R	SP27889	JC18912-39	934031	ABN CONH 12DPH+BDD+	S	15	20		✓	✓	OK	RR 1:5
	27890	JC19382-1	935341	BNDT CONH NDLA		16			✓		OK RR	RR c/o tic-
	27891	-2				17			✓		RR	AMO 5/31/16 cap hit T inc.
	27892	-3				18			✓		RR	cap hit T inc.
	27893	-4				19		+	✓	✓	OK	
	27894	JC19348-23		PAH		20			✓	✓	OK	
	27895	op93534-ms		ABS270		21			✓	✓	OK	
	27896	-msd				22			✓	✓	OK	745PM

AMO

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.12

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E5P1416

Print Analyst Name: Ashley Moyer

Date: 5/3/2016

Analyst Signature: AMO

Columns: ZB-5ms 30m x 25mm x .25

Method 8270D/625

Initial Cal. Method M5P1382

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM5182910B	DFTPP	50ppm
SM5182615	BNA	25ppm
SM5182791	TC642	25ppm
CM5732	Internal Std	4000
162641	DCM (Fisher)	1L

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to compl with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	5P27900	DFTPP				1					not tuning	ions at Rtenn
	27901	DFTPP				1					OK	827am.
	27902	CC1382-25		BNA	W	2					OK	
	27903	CC1383-25		TC642	W	3					OK	
	27904	op93478-mbl	93478-1	ABS270H	S	4		+	✓	✓	OK	
	27905	-bs1				5			✓	✓	OK	
	27906	JC19923-2	93534-1	ABSL+2mnap+mnap	W	6			✓	✓	OK	
R	27907	JC18912-31	93403-1	ABSL+12PPH BDIND	MP	7	100		✓	X	OK	
	27908	JC19023-2	93478-1	ABSL+2mnap+mnap		8			✓	✓	OK	
	27909	-4				9			✓	✓	OK	
	27910	JC18964-20		ABSCL1		10			✓	✓	OK	
	27911	-21				11			✓	✓	OK	
	27912	-25				12			✓		RR	c/o
	27913	-26				13			✓	✓	OK	
	27914	-27				14			✓	✓	OK	
	27915	-29				15			✓	✓	OK	
	27916	-19				16			✓	✓	OK	RR 1:5

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E5P1416

Print Analyst Name: Ashley Dye

Analyst Signature: AMO

Date: 5/3/2016

Columns: 7890/5975 30m x .25mm x .5µ

Method 8270D/625

Initial Cal. Method MSP1382

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 23	

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: 5-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	5P27917	JC18964-22	934781	ABTCCL1	S	17			✓	✓	OK	RR 1:10 / 1:100
	27918	-23				18			✓	✓	OK	RR 1:10 1:100 Vf=5mL
	27919	-24				19			✓		RR	c/o.
	27920	JC19070-1		ABTCC70+		20			✓			
	27921	-2				21			✓			
	27922	JC19023-1		ABSL+ 2MNaphthalene		22			✓			
	27923	op93478-ms		ABS270		23			✓		RR	826PM. c/o.
	27924	-msd.				24			✓		RR	853PM a/of 12hrs.
	27925	JC18964-25		ABTCCL1	S	12			✓	✓	OK	ran after 5P27916
	27926	op93548-mb1	935481	ABS270+	S	25			✓	✓	RR	c/o.
R	27927A	JC19385-1rx		BTCC70+		26	2	+	✓	✓	OK	diluted du rerun as A file
	27928	sodium sulfate		101#148240		27			✓		RR	c/o.

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6563

Print Analyst Name: Linsey

Analyst Signature: [signature]

Date: 4/4/16

Columns: ZB-5ms Plus ~~Rtx-5Sil MS~~ 30m x .25mm x .25um 7/14/16

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
SV151827-60A	BNA	100 ppm
-60B	↓	80
-60C		50
-60D		25
-60E		10
-60F	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151629-10B	DFTPP	50 ppm
SV151827-60H	BNA	2 ppm
-60I	↓	1 ↓
CMS832	Internal Std.	40ppm
K2107	DCM-Fisher's	—

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: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F151036	Condition			W	100					Condition	
	156045	Condition			W	100					↓	
	156046	condition				99						
	↓ 156048	↓				↓					Not run	sequence changed
	156049	DFTPP			W	1					NG	51↓, reinject
	156050	DFTPP			W	1					OK	
	156051	IC6563-100		BNA		2					OK	
	156052	-80				3					OK	
	156053	IC6563-50				4					OK	
	156054	IC6563-25				5					OK	
	156055	-10				6					OK	
	156056	-5				7					OK	
	156057	-2				8					OK	
	156058	-1				9					OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6564

Print Analyst Name: Sara Davis

Analyst Signature: SED

Date: 4/4/2016

Columns: ZB-5msplus 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method MF6563

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.
SV151827-73A	TCL42	100 ppm
-73B	↓	80 ↓
-73C		50
-73D		25
-73E		10
-73G	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151829-103	DFTPP	50 ppm
SV151827-73 H	TCL42	2 ppm
-73 I	↓	1 ↓
CM5732	Internal Std	4000 ppm
162107	Dcm (Fisher)	—

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: AMO

Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F156059	DFTPP			W	1					OK	11:06 pm
	156060	TCL6564-100		TCL42	W	2					OK	
	156061	-80				3					OK	
	156062	TCL6564-50				4					OK	
	156063	TCL6564-25				5					OK	
	156064	-10				6					OK	
	156065	-5				7					OK	
	156066	-2				8					OK	
	156067	-1				9					OK	
	156068	TCV6563-50		Acids		10					rr	SV151827-79
	156069	-50		Aniline		11					OK	-78
	156070	-50		ABN sicc		12					OK	OP161712 33
	156071	-50		BN1		13					OK	SV151827-88
	156072	-50		BN2		14					OK	-80
	156073	TCV6564-50		Benzidine 3rd		15					OK	-38F
	~~156073~~											
	SD 2 4/4/16											

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.15

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6566

Print Analyst Name: LinseyK

Analyst Signature: LK

Date: 4/5/16

Columns: RTX-5SILMS 30m x .25mm x .25um 2B-5MS PLUS

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SMS1829-118	DFTPP	50ppm
CMS732	Internal Std.	40ug/ml
162107	DCM (Cosmes)	—

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: 4-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F56079	DFTPP			W	1					[initials]	1.58pm
	156080	ICV6566-100		8270	W	2					[initials]	SMS1829-118A
	156081	-80				3					[initials]	-118B
	156082	ICV6566-50				4					[initials]	SMS1827-85A
	156083	ICV6566-25				5					[initials]	-85B
	156084	-10				6					[initials]	SMS1829-118E
	156085	-5				7					[initials]	-118G
	156086	-2				8					[initials]	-118H
	156087	-1				9					[initials]	-118I

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6567

Print Analyst Name: Sara Davis

Analyst Signature: SED

Date: 4/5/2016

Standard Data

Lot #	Description	Conc.
SV151827-96A	AP9SL	100 ppm
-96B	↓	80 ↓
-96C	↓	50 ↓
-96D	↓	25 ↓
-96E	↓	10 ↓
-96G	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151829-108	DFTPP	50 ppm
SV151827-96H	AP9SL	2 ppm
-96I	↓	1 ↓
OM-5732	Internal std	4000 ppm
162107	DCM (Fisher)	—

Columns: ZB-5ms Plus 30m x .25mm x .25

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to compl with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 4-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156088	DFTPP				1					ok	6.00pm
	156089	ic6567-100		AP9SL		2					ok	
	156090	-80				3					ok	
	156091	icc6567-50				4					ok	
	156092	ic6567-25				5					ok	
	156093	-10				6					ok	
	156094	-5				7					ok	
	156095	-2				8					ok	
	156096	-1				9					ok	
	156097	icv6564-50		HQ		10					ok	SV151827-98D
	156098	icv6567-50		m-toluidine		11					ok	OP151624123
	156099	-50		Catechol		12					ok	OP151624 8
	156100	-50		12NB		13					ok	SV151827-99
	156101	-50		2+3CA		14					ok	SV151827-100
	156102	icv6566-50		AP9 2nd		15					ok	OP161712-36
	156103	-50		Methapyrilene 3rd		16					not used	SV151829-128A not needed
	156104	-50		Hexachlorophene 2nd		17					ok	-56

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6567

Print Analyst Name: Sara Davis

Date: 4/5/2016

Analyst Signature: SED

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 109	

Columns: ZB-5ms plus 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method M F6563

Injection Volume: 1 ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 4-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156105	ICV6566-50		APA Megamix 2nd		18						SV151829-68
	156106	-50		APA 3rd		19						-122A

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF 6603

Print Analyst Name: Linsay K

Analyst Signature: LK

Date: 5/5/16

Columns: 2 5ms 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
SV15827-5A	APP	50ppm

Standard Data

Lot #	Description	Conc.
SV15829-1OS	DFTPP	50ppm
SV15827-1BC	BNA	50ppm
SV16935-4C	TCL42	50ppm
CP15732	Internal Std.	400ppm
1L26611	DIM (Fisher)	—

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: AM

Date: 5-16-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F150827	DFTPP			W	1					OK	10:10AM
	150828	CC6563-50		BNA	W	2					OK	22,54,101,727
	150829	CC6564-50		TCL42	W	3					OK	107,111V
	150830	TCL42ver-1ppm			W	4					OK	SV15827-2B
	150831	CC6566-50		APP	W	5					OK	
	150832	OP93597-mb1	93597-1	AB8270	S	6		+	/	/	OK	
	150833	-lcs1				7			/		Missing	rr w/ restot baken.
	150834	JC12066-10P		ABPTCL42		8		+	/	/	OK	
	150835	OP9044-mb1	92441	625	W	9			/			
	150836	JC11945-2				10			/			lcs1
	150837	-2				11			/			lcs2
	150838	-2				12			/			lcs3
	150839	-2				13			/			lcs4
	150840	-2				14			/			lcs11
	150841	-2				15			/			lcs12 4:57pm
	150842	OP93631-mb1	93631-1	AB625	W	16			/	/	OK	625
	150843	lcs1				17			/	/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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SGS ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID EF6603

Date: 5/5/16

Print Analyst Name: Linsey K

Analyst Signature: JK

Columns: 2B-5ms@3mx.25mmx.25u

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See pg 37	

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: dm

Date: 5-16-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	156844	OP93621-bs	139363-1	AB625	W	18			/	/	OK	625
	156845	JC19535-1		AB625		19			/	/	OK	
	156846	-3				20			/	/	OK	
	156847	-4				21			/	/	OK	
	156848	JC19495-1		BSL		22			/		nothing	
	156849	JC19527-2		ABPL-1AP54		23			/	/	OK	reporting from OP93621 10 11-5-16
	156850	JC19528-1		ABPL-1AP54		24			/	/	OK	
	156851	JC19530-1		AB625		25			/	/	OK	
	156852	-6				26			/	/	OK	
	156853	OP93621-ms		AB625		27			/	/	OK	
	156854	-msd				28			/	/	OK	11:14pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EZ5485

Print Analyst Name: Sara Davis

Analyst Signature: SED

Date: 4/13/2016

Standard Data

Lot #	Description	Conc.
SV151827-106A	BNA	100 ppm
-106B	↓	80
-106C	↓	50
-106D	↓	25
-106E	↓	10
-106G	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151819-108	DFTPP	50 ppm
SV151827-106H	BNA	2 ppm
-106I	↓	1 ↓
CM15732	Internal Std	4000 ppm
162342	DCM (Fisher)	—

Columns: Rx-5Sil ms 30m x .25mm x .25um

Method 8270 D/625 85

Initial Cal. Method MZ5446 SD (2) 4/13/16

Injection Volume: 1 ul

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: AMQ

Date: 4/19/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	Z109740	DFTPP			W	1					OK	9:20 pm
	109741	ic 5485-2		BNA	W	2					OK	
	109742	-100				3					OK	
	109743	-80				4					OK	
	109744	-25				5					OK	
	109745	-10				6					OK	
	109746	-5				7					OK	
	109747	-1				8					OK	
	109748	icc 5485-50				9					OK	11:54 am

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EZ5486

Print Analyst Name: Sara Davis

Analyst Signature: SED

Date: 4/14/2016

Columns: Rxi-5silms 30mx.25mmx.25um

Method: 8270 D/625

Initial Cal. Method: MZ5485

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.
SV151827-73A	TCL42	100
-73B		80
-73C		50
-73D		25
-73E		10
-73G		5

Standard Data

Lot #	Description	Conc.
SV151829-108	DFTPP	50 ppm
SV151827-73H	TCL42	2 ppm
-73I		1
CM-5732	Internal Std	4000 ppm
162342	DCM (Fisher)	—

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: AMO Date: 4/14/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	Z109749	DFTPP				1					OK	129 um
	109750	TCL5486-100		TCL42		2					OK	
	109751	-80				3					OK	
	109752	-25				4					OK	
	109753	-10				5					OK	
	109754	-5				6					OK	
	109755	-2				7					OK	
	109756	-1				18					OK	
	109757	TCL5486-50				19					OK	
	109758	TCV5485-50		Acids		20					OK	SV151827-87
	109759	-50		Aniline		21					OK	-94
	109760	-50		ABN Surr		22					OK	OP151624 20
	109761	-50		BN1		23					OK	SV151827-113 33 dcsu
	109762	-50		BN2		24					OK	-95
	109763	TCV5486-50		HQ		25					OK	-98A
	109764	-50		Benzidine 3rd		26					OK	-38E 106 ftn

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EZ5515

Print Analyst Name: Arielle Cocozza

Analyst Signature:

Date: 5/5/16

Columns: Rtx-5Sil MS 30m x 0.25mm x 0.25um

Method: 8270D/625

Initial Cal. Method: MZ5485

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1582908	DFTPP	50ppm
1516270975	BNA	25ppm
[illegible]	TCLP	↓
[illegible]	Int. Std.	40ppm
62417	DCM (rinse)	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 5-6-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	Z110382	DFTPP			W	1					OK	93.2um
	110383	CC5485-25		BNA	W	2					OK	20.58 ↓ 42 verify 23.25,26
	110384	CC5486-25		TCLP	W	3					OK	corrected ↓
	110385	BNA 100ppm			W	4					OK	[illegible]
	110386	CP93597-MB1 [illegible]	93597	ABN708	S	5		✓	✓	✓	OK	
R	110387	JC19588-1	93627	BNA+TPH	S	6	10		✓	✓	OK	
R	110388	2				7	10		✓	✓	OK	1 acid surr ↓
R	110389	3				8	10		✓	✓	OK	2 acid surr ↓
R	110390	JC18799-22 ex		ABTCL20		9	20		✓	✓	OK	
R	110391	ZZA ex				10	20				not using	reporting from original run
	110392	JC19505-1	93598	ABTCL20+	S	11		✓	✓	✓	OK	re 5/5/16 [illegible] RR CF:
	110393	2				12		✓	✓		OK	
	110394	JC19509-3				13		✓	✓		OK	
	110395	JC19477-1		ABTCL+TOAD ABZZ+BNZYLALC		14			✓	✓	OK	
	110396	JC19485-10		BNA		15			✓	✓	OK	
	110397	JC19414-2	93597	BNA	S	16			✓	✓	OK	
	110398	3				17			✓	✓	OK	2 acid surr ↓

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EZ5515

Print Analyst Name: Arielle Cocozza

Date: 5/5/16

Analyst Signature:

Columns: Rtx 5 5%/30m x 0.25mm x .25

Method 8270D/625

Initial Cal. Method MZ5485

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see p 125	

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: dn

Date: 5-6-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	Z110391	JC19414-4	93597	BRAA	S	18			/	/	OK	
	110400	5				19			/	/	OK	
	110401	6				20			/	/	OK	
	110402	7				21			/	/	OK	
	110403	8				22			/	/	OK	
	110404	9				23			/	/	OK	
	110405	10				24			/	/	OK	
	110406	JC19559-1	93627	BRAA	S	25	2		/	/	OK	531pm Remake/Reg. pt.
	110407	JC19505-1	93598	ABSCL29	S	11			/	/	OK	CFO SW Remake Z110393 ±5%
												SB

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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ABN Aqueous Extraction Logbook

LOGBOOK ID: 6-1727

Date Started: 05.02.16 Time Started: 7:00AM
Date Finished: 05.02.16 Time Finished: 1415

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # MS93534 RACK# C-2

Extracted by:	ABOT EnC NL VP
Concentrated by:	MP VP
Vialed by:	YB, VP
Relinquished by:	
Accepted by:	
Supervisor Review:	5/2/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:
MS2/MSD2 - JC19423-2
SIM MS2/MSD2 - JC19423-2

Final Volume:

Other:

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	67	75.74	-0.5, .01	75.74	NA
Waterbath Chiller (GPM)	R2	4	–	–	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1471278	50	1

WITNESS SIGN: EnC SPIKE SIGN: BOT

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	151827129	50	Acid: 1
Acid (for SIM)			A(SIM): .01
Base #1	1619351	50	1
Base #2	151827134	50	1
Anilines	151827115	50	1
BSIM	1471266	100M	1

WITNESS SIGN: EnC SPIKE SIGN: BOT

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	182417	Fisher	6/60

REAGENT	LOT #	BRAND
NaOH	153803	Fisher
H2SO4	2601910	Ricca
Sodium Sulfate	158459	Fisher
Glass Wool	02905-2	Lab
Filter Paper		
pH strips		

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) H2SO4	pH Adjust(mL) NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	4	Clear	1		
	BS1			DI H2O	1000	1	4	Yellow	1		
	JC19382-2 MS		2	LT Brown	500	1	4	Yellow	1		
	2 MSD		2	LT Brown	500	1	4	Yellow	1		
	BS	12SIM		DI H2O	1000	1	4	LT Yellow	1		
	JC19382-1 MS		2	Yellow	500	1	4	LT Yellow	1		
	1 MSD		2	Yellow	500	1	4	LT Yellow	1		
1	JC19348-23	ABN	1	Clear	1000	1	4	Clear	1		
2	JC19330-2		1	Clear	990	1	4	Clear	1		
3	-3		2	Clear	1000	1	4	Clear	1		
4	-4		1	Clear	1000	1	4	Clear	1		
5	-5		1	Yellow	1000	1	4	Yellow	1		
6	-8		3	Clear	1000	1	4	Clear	1		
7	-9		2	Yellow	1000	1	4	Yellow	1		
8	-10		4	Yellow	1000	1	4	Yellow	1		
9	-11		2	Clear	1000	1	4	Clear	1		
10	-12		2	Clear	1000	1	4	Clear	1		
11	-13		1	Clear	1000	1	4	Clear	1		
12	-14		9	Clear	930	1	4	Clear	1		
13	JC19382-1		1	Yellow	990	1	4	Clear	1		
14	-2		1	LT Brown	1000	1	4	LT Yellow	1		
15	-3		2	LT Yellow	1000	1	4	LT Yellow	1		
16	-4		1	Brown	1000	1	4	Yellow	1		
17	JC19354-1		1	Yellow	1000	1	4	Yellow	1		
18	JC19423-2		1	Yellow	920	1	4	Clear	1		
19	~~-3~~										
20	~~-4~~										
ABN	MS2 JC19423-2		2	Yellow	890	1	4	Yellow	1		
	MSD2		3	Yellow	900	1	4	Yellow	1		
67	MSA2		4	Yellow	890	1	4	LYellow	1		
SIM	MSDA2		5	Yellow	890	1	4	LYellow	1		

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Identical

Comments: Okay to split ms/msd not enough bottles
Limited volume JC19348-23 Full bottle used. No more bottles

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

ABN Aqueous Extraction Logbook

LOGBOOK ID: 6-1727

Date Started: 05.02.16 Time Started: 7:00AM
Date Finished: 05.02.16 Time Finished: 1415

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH #	MS93534
RACK#	C-2
Extracted by:	ABOJ EnC NL VP
Concentrated by:	MP VP
Vialed by:	YB, VP
Relinquished by:	
Accepted by:	
Supervisor Review:	5/2/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) H2SO4	pH Adjust(mL) NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
MB1	ABN		DIH2O	1000	1	4	Clear	1		
BS1			DIH2O	1000	1	4	Yellow	1		
JC19382-2 MS		2	LT Brown	500	1	4	Yellow	1		
2 MSD		2	LT Brown	500	1	4	Yellow	1		
BS	12SIM		DIH2O	1000	1	4	LT Yellow	1		
JC19382-1 MS		2	Yellow	500	1	4	LT Yellow	1		
1 MSD		2	Yellow	500	1	4	LT Yellow	1		
1 JC19348-23	ABN	1	Clear	1000	1	4	Clear	1		
2 JC19330-2		1	Clear	990	1	4	Clear	1		
3 -3		2	Clear	1000	1	4	Clear	1		
4 -4		1	Clear	1000	1	4	Clear	1		
5 -5		1	Yellow	1000	1	4	Yellow	1		
6 -8		3	Clear	1000	1	4	Clear	1		
7 -9		2	Yellow	1000	1	4	Yellow	1		
8 -10		4	Yellow	1000	1	4	Yellow	1		
9 -11		2	Clear	1000	1	4	Clear	1		
10 -12		2	Clear	1000	1	4	Clear	1		
11 -13		1	Clear	1000	1	4	Clear	1		
12 -14		9	Clear	930	1	4	Clear	1		
13 JC19382-1		1	Yellow	990	1	4	Clear	1		
14 -2		1	LT Brown	1000	1	4	LT Yellow	1		
15 -3		2	LT Yellow	1000	1	4	LT Yellow	1		
16 -4		1	Brown	1000	1	4	Yellow	1		
17 JC19354-1		1	Yellow	1000	1	4	Yellow	1		
18 JC19423-2		1	Yellow	920	1	4	Clear	1		
19 ~~-3~~										
20 ~~-4~~										

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Identify

Comments: Okay to split MS/MSD not enough bottles
Limited volume JC19348-23 Full bottle used. No more bottles

ABN { MS2 JC19423-2 | 2 | Yellow | 890 | 1 | 4 | Yellow | 1
MSD2 | 3 | Yellow | 900 | 1 | 4 | Yellow | 1
67 MS2 | 4 | Yellow | 890 | 1 | 4 | LYellow | 1
SIM { MSD2 | 5 | Yellow | 890 | 1 | 4 | LYellow | 1

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:
MS2/MSD2 - JC19423-2
SIM MS2/MSD2 - JC19423-2

Final Volume:

Other:

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	67	75.74	-0.5, 0.1	75.74	NA
Waterbath Chiller (GPM)	F2	4	–	–	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1471278	50	1

WITNESS SIGN: EnC SPIKE SIGN: ABOJ

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	151827129	50	Acid: 1
Acid (for SIM)			A(SIM): 1
Base #1	1619351	50	1
Base #2	151827134	50	1
Anilines	151827115	50	1
BSIM	1471266	100M	1

WITNESS SIGN: EnC SPIKE SIGN: ABOJ

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	182417	Fisher	6/60

REAGENT	LOT #	BRAND
NaOH	153803	Fisher
H2SO4	2601910	Ricca
Sodium Sulfate	158459	Fisher
Glass Wool	02905-2	Lab
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

LOGBOOK ID: 6-1743

ABN Extraction Log - Solids

Date started: 5/4/16 Time started: 9:15 AM
Date finished: 5/4/16 Time finished:

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 √ Sonication SW3550C ____
Waste Dil. SW3580A ____ Soxhlet SW3540C ____

BATCH # MS 93597 RACK# B-18

Weighed/Extracted by: [illegible] FN
Concentrated by: [illegible] FN
Vialed by: AQ
Relinquished by: AQ
Accepted by:
Supervisor Review: [signature] 5/4/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Microwave ID Sonicator-ID	Final Extract Color	Final Extract Vol(mL)	GPC Cleanup	Comments
	MB1	ABN		Sand	30.0			3	Clear	1		
	BS1			Sand	30.0			3	Yellow	1		
	JC19414-1 MS		1	Soil	31.9		/	3	Yellow	1		
	MSD		1	Soil	30.3		/	3	Yellow	1		
	BS 125IM			Sand	30.0		/	3	Clear	1		
	JC19423-1 MS A		1	Soil	30.0		/	3	Yellow	1		
	MSD A		1	Soil	32.8		/	3	Yellow	1		
1	JC19414-1	ABN	1	Soil	30.3		/	3	Yellow	1		
2	-2		1	Soil	30.8		/	3	Yellow	1		
3	-3		1	Soil	30.4		/	3	Brown	1		
4	-4		1	Soil	30.4		/	3	Brown	1		
5	-5		1	Soil	31.0		/	3	Yellow	1		
6	-6		1	Soil	30.6		/	3	Brown	1		
7	-7		1	Soil	31.2		/	3	Brown	1		
8	-8		1	Soil	31.1		/	3	Yellow	1		
9	-9		1	Soil	30.9		/	3	Brown	1		
10	-10		1	Soil	31.1		/	3	Brown	1		
11	JC19423-1		1	Soil	30.0		/	3	Yellow	1		
12	JC19434-1		1	Soil	30.9		/	3	Brown	1		
13	JC19445-1		1	Soil	30.6		/	3	Brown	1		
14	JC18666-9P		2	Sand	30.0		/	3	Yellow	1		
15	~~JC18666-10P~~											
16	-10P		2	Sand	30.0		/	3	Yellow	1		
17	JC19473-3		1	Soil	30.5		/	3	Yellow	1		
18	JC19511-7		1	Soil	30.0		/	3	Yellow	1		
19	-8		1	Soil	30.4		/	3	Brown	1		
20	-9		1	Soil	30.8		/	3	Yellow	1		

Comments:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other: please update 'a' batch too!

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	10,9	75.1, 76.1	-0.6, +1.3	74.5, 77.4	—
Waterbath Chiller (GPM)	M2, M3	6, 3	—	—	1.7, 1.7
NEVAP (32-38°C, LPM)	2	36.1	—	—	1.0
Balance	BA2	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	OP16171292	50	1

WITNESS SIGN: [illegible] SPIKE SIGN: FN

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	SV161935-16	50	Acid: 1
Acid (for SIM)			A(SIM): 0.2
Base #1	SV161935-17	50	1
Base #2	SV161935-10	50	1
Aniline	SV151827-115	50	1
BSIM	OP16171266	1	1

WITNESS SIGN: [illegible] SPIKE SIGN: FN

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/ ACETONE	162489 / 158571	FISHER / FISHER	30
METH CHLOR			

REAGENT	LOT #	BRAND
HYDROMATRIX	6280850	AGILENT
SODIUM SULFATE	158459	FISHER
FILTER PAPER	9626294	FISHER

MATRIX	LOT #	BRAND
SAND	6GA160131IA	FISHER

SGS ACCUTEST INC.
Form: OP019A-06
Rev Date: 11/20/15

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[redacted]

LOGBOOK ID: 6-1743

ABN Extraction Log - Solids

Date started: 5/4/16 Time started: 9:15 AM
Date finished: 5/4/16 Time finished:

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 √ Sonication SW3550C ____
Waste Dil. SW3580A ____ Soxhlet SW3540C ____

BATCH # MS 93597 RACK# B-18

Weighed/Extracted by: [illegible] FN
Concentrated by: [illegible] FN
Vialed by: AQ
Relinquished by: AQ
Accepted by:
Supervisor Review: [signature] 5/4/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Microwave ID Sonicator-ID	Final Extract Color	Final Extract Vol(mL)	GPC Cleanup	Comments
	MB1	ABN		Sand	30.0			3	Clear	1		
	BS1			Sand	30.0			3	Yellow	1		
	JC19414-1 MS		1	Soil	31.9		/	3	Yellow	1		
	↓ MSD		1	Soil	30.3		/	3	Yellow	1		
	BS 12S1M			Sand	30.0		/	3	Clear	1		
	JC19423-1 MSA		1	Soil	30.0		/	3	Yellow	1		
	↓ MSDA		1	Soil	32.8		/	3	Yellow	1		
1	JC19414-1	ABN	1	Soil	30.3		/	3	Yellow	1		
2	-2		1	Soil	30.8		/	3	Yellow	1		
3	-3		1	Soil	30.4		/	3	Brown	1		
4	-4		1	Soil	30.4		/	3	Brown	1		
5	-5		1	Soil	31.0		/	3	Yellow	1		
6	-6		1	Soil	30.6		/	3	Brown	1		
7	-7		1	Soil	31.2		/	3	Brown	1		
8	-8		1	Soil	31.1		/	3	Yellow	1		
9	-9		1	Soil	30.9		/	3	Brown	1		
10	-10		1	Soil	31.1		/	3	Brown	1		
11	JC19423-1		1	Soil	30.0		/	3	Yellow	1		
12	JC19434-1		1	Soil	30.9		/	3	Brown	1		
13	JC19445-1		1	Soil	30.6		/	3	Brown	1		
14	JC18666-9P		2	Sand	30.0		/	3	Yellow	1		
15	~~JC18666-10P~~											
16	-10P		2	Sand	30.0		/	3	Yellow	1		
17	JC19473-3		1	Soil	30.5		/	3	Yellow	1		
18	JC19511-7		1	Soil	30.0		/	3	Yellow	1		
19	-8		1	Soil	30.4		/	3	Brown	1		
20	-9		1	Soil	30.8		/	3	Yellow	1		

Comments:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other: please update 'a' batch too!

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	10,9	75.1, 76.1	-0.6, +1.3	74.5, 77.4	—
Waterbath Chiller (GPM)	M2, M3	6, 3	—	—	1.7, 1.7
NEVAP (32-38°C, LPM)	2	36.1	—	—	10
Balance	BA2	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	OP16171292	50	1

WITNESS SIGN: [illegible] SPIKE SIGN: FN

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	SV161935-16	50	Acid: 1
Acid (for SIM)			A(SIM): 0.2
Base #1	SV161935-17	50	1
Base #2	SV161935-10	50	1
Aniline	SV151827-115	50	1
BSIM	OP16171266	1	1

WITNESS SIGN: [illegible] SPIKE SIGN: FN

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/ ACETONE	162489 / 158571	FISHER / FISHER	30
METH CHLOR			

REAGENT	LOT #	BRAND
HYDROMATRIX	6280850	AGILENT
SODIUM SULFATE	158459	FISHER
FILTER PAPER	9626294	FISHER

MATRIX	LOT #	BRAND
SAND	6GA160131 1A	FISHER

SGS ACCUTEST INC.
Form: OP019A-06
Rev Date: 11/20/15

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[redacted]

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93549-MB1	1G122662.D	1	05/02/16	BP	05/02/16	OP93549	G1G3977

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19423-2

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0040	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0040	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0038	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0030	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0019	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0031	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0031	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0024	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0025	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0033	ug/l	
72-20-8	Endrin	ND	0.0067	0.0034	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0035	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0034	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0033	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0029	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0025	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0044	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0038	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.12	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	96%	26-132%
877-09-8	Tetrachloro-m-xylene	85%	26-132%
2051-24-3	Decachlorobiphenyl	83%	10-118%
2051-24-3	Decachlorobiphenyl	106%	10-118%

Method Blank Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93683-MB1	4G67963.D	1	05/06/16	BP	05/06/16	OP93683	G4G1782

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19423-1

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.59	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.44	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.41	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.26	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.30	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.36	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.51	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.52	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	0.25	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.22	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	0.25	ug/kg	
72-20-8	Endrin	ND	0.67	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.38	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.50	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.22	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.63	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.55	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.28	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.37	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.35	ug/kg	
8001-35-2	Toxaphene	ND	17	12	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	104%	24-136%
877-09-8	Tetrachloro-m-xylene	87%	24-136%
2051-24-3	Decachlorobiphenyl	127%	10-153%
2051-24-3	Decachlorobiphenyl	94%	10-153%

Blank Spike Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93549-BS1	1G122663.D	1	05/02/16	BP	05/02/16	OP93549	G1G3977

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19423-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.167	0.15	90	38-138
319-84-6	alpha-BHC	0.167	0.16	96	51-144
319-85-7	beta-BHC	0.167	0.19	114	55-137
319-86-8	delta-BHC	0.167	0.16	96	33-148
58-89-9	gamma-BHC (Lindane)	0.167	0.15	90	53-142
5103-71-9	alpha-Chlordane	0.167	0.16	96	52-137
5103-74-2	gamma-Chlordane	0.167	0.16	96	52-140
60-57-1	Dieldrin	0.167	0.17	102	54-144
72-54-8	4,4'-DDD	0.167	0.16	96	46-151
72-55-9	4,4'-DDE	0.167	0.15	90	51-142
50-29-3	4,4'-DDT	0.167	0.19	114	53-158
72-20-8	Endrin	0.167	0.18	108	53-149
1031-07-8	Endosulfan sulfate	0.167	0.17	102	49-148
7421-93-4	Endrin aldehyde	0.167	0.18	108	45-137
53494-70-5	Endrin ketone	0.167	0.20	120	48-142
959-98-8	Endosulfan-I	0.167	0.16	96	54-139
33213-65-9	Endosulfan-II	0.167	0.17	102	54-142
76-44-8	Heptachlor	0.167	0.17	102	45-137
1024-57-3	Heptachlor epoxide	0.167	0.17	102	54-140
72-43-5	Methoxychlor	0.167	0.18	108	51-157

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	104%	26-132%
877-09-8	Tetrachloro-m-xylene	95%	26-132%
2051-24-3	Decachlorobiphenyl	92%	10-118%
2051-24-3	Decachlorobiphenyl	118%	10-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93683-BS1	4G67964.D	1	05/06/16	BP	05/06/16	OP93683	G4G1782

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19423-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	14.0	84	40-135
319-84-6	alpha-BHC	16.7	13.3	80	37-134
319-85-7	beta-BHC	16.7	14.2	85	37-131
319-86-8	delta-BHC	16.7	13.4	80	34-132
58-89-9	gamma-BHC (Lindane)	16.7	13.7	82	36-128
5103-71-9	alpha-Chlordane	16.7	14.6	88	40-131
5103-74-2	gamma-Chlordane	16.7	15.0	90	41-133
60-57-1	Dieldrin	16.7	15.3	92	33-133
72-54-8	4,4'-DDD	16.7	14.7	88	37-132
72-55-9	4,4'-DDE	16.7	14.4	86	39-133
50-29-3	4,4'-DDT	16.7	15.9	95	26-150
72-20-8	Endrin	16.7	15.0	90	41-134
1031-07-8	Endosulfan sulfate	16.7	15.0	90	38-138
7421-93-4	Endrin aldehyde	16.7	15.2	91	37-129
959-98-8	Endosulfan-I	16.7	14.6	88	39-130
33213-65-9	Endosulfan-II	16.7	15.0	90	40-134
76-44-8	Heptachlor	16.7	14.2	85	36-132
1024-57-3	Heptachlor epoxide	16.7	14.7	88	39-131
72-43-5	Methoxychlor	16.7	15.0	90	28-149
53494-70-5	Endrin ketone	16.7	15.2	91	31-138

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	109%	24-136%
877-09-8	Tetrachloro-m-xylene	88%	24-136%
2051-24-3	Decachlorobiphenyl	131%	10-153%
2051-24-3	Decachlorobiphenyl	97%	10-153%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93549-MS	1G122664.D	1	05/02/16	BP	05/02/16	OP93549	G1G3977
OP93549-MSD	1G122665.D	1	05/02/16	BP	05/02/16	OP93549	G1G3977
JC19423-2	1G122666.D	1	05/02/16	BP	05/02/16	OP93549	G1G3977

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19423-2

CAS No.	Compound	JC19423-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.167	0.20	120	0.167	0.21	126	5	37-159/40
319-84-6	alpha-BHC	ND		0.167	0.21	126	0.167	0.23	138	9	37-164/37
319-85-7	beta-BHC	ND		0.167	0.20	120	0.167	0.22	132	10	46-151/36
319-86-8	delta-BHC	ND		0.167	0.20	120	0.167	0.22	132	10	32-168/36
58-89-9	gamma-BHC (Lindane)	ND		0.167	0.21	126	0.167	0.23	138	9	44-160/37
5103-71-9	alpha-Chlordane	ND		0.167	0.19	114	0.167	0.20	120	5	38-160/35
5103-74-2	gamma-Chlordane	ND		0.167	0.19	114	0.167	0.21	126	10	39-157/37
60-57-1	Dieldrin	ND		0.167	0.21	126	0.167	0.22	132	5	42-161/36
72-54-8	4,4'-DDD	ND		0.167	0.20	120	0.167	0.24	144	18	40-161/36
72-55-9	4,4'-DDE	ND		0.167	0.20	120	0.167	0.23	138	14	34-158/36
50-29-3	4,4'-DDT	ND		0.167	0.22	132	0.167	0.25	150	13	41-173/33
72-20-8	Endrin	ND		0.167	0.22	132	0.167	0.24	144	9	44-166/35
1031-07-8	Endosulfan sulfate	ND		0.167	0.19	114	0.167	0.21	126	10	46-161/36
7421-93-4	Endrin aldehyde	ND		0.167	0.20	120	0.167	0.23	138	14	34-149/36
53494-70-5	Endrin ketone	ND		0.167	0.22	132	0.167	0.24	144	9	44-157/36
959-98-8	Endosulfan-I	ND		0.167	0.19	114	0.167	0.20	120	5	43-154/35
33213-65-9	Endosulfan-II	ND		0.167	0.19	114	0.167	0.22	132	15	40-162/35
76-44-8	Heptachlor	ND		0.167	0.21	126	0.167	0.22	132	5	33-153/37
1024-57-3	Heptachlor epoxide	ND		0.167	0.20	120	0.167	0.22	132	10	45-154/37
72-43-5	Methoxychlor	ND		0.167	0.20	120	0.167	0.22	132	10	48-169/32
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC19423-2	Limits
877-09-8	Tetrachloro-m-xylene	108%	91%	115%	26-132%
877-09-8	Tetrachloro-m-xylene	98%	81%	102%	26-132%
2051-24-3	Decachlorobiphenyl	90%	85%	98%	10-118%
2051-24-3	Decachlorobiphenyl	118%	107%	124%* [a]	10-118%

(a) High percent recoveries and no positive found in the sample.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93683-MS	4G67998.D	1	05/06/16	BP	05/06/16	OP93683	G4G1782
OP93683-MSD	4G67999.D	1	05/06/16	BP	05/06/16	OP93683	G4G1782
JC19505-1	4G67966.D	1	05/06/16	BP	05/06/16	OP93683	G4G1782

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19423-1

CAS No.	Compound	JC19505-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		16.4	15.9	97	16.3	12.7	78	22	19-147/48
319-84-6	alpha-BHC	ND		16.4	14.8	90	16.3	11.6	71	24	13-155/50
319-85-7	beta-BHC	ND		16.4	15.4	94	16.3	11.8	73	26	10-145/53
319-86-8	delta-BHC	ND		16.4	15.8	96	16.3	11.9	73	28	11-148/51
58-89-9	gamma-BHC (Lindane)	ND		16.4	15.3	93	16.3	12.0	74	24	16-143/47
5103-71-9	alpha-Chlordane	ND		16.4	15.7	96	16.3	10.9	67	36	15-151/50
5103-74-2	gamma-Chlordane	ND		16.4	17.6	107	16.3	13.6	84	26	13-151/50
60-57-1	Dieldrin	ND		16.4	16.8	103	16.3	13.4	82	23	10-157/54
72-54-8	4,4'-DDD	ND		16.4	16.0	98	16.3	12.6	77	24	10-157/52
72-55-9	4,4'-DDE	ND		16.4	32.4	198* [a]	16.3	7.6	47	124* [a]	10-155/49
50-29-3	4,4'-DDT	ND		16.4	14.4	88	16.3	11.1	68	26	10-187/49
72-20-8	Endrin	ND		16.4	16.3	100	16.3	12.8	79	24	14-154/53
1031-07-8	Endosulfan sulfate	ND		16.4	16.7	102	16.3	13.3	82	23	16-140/55
7421-93-4	Endrin aldehyde	ND		16.4	16.3	100	16.3	13.0	80	23	10-156/51
959-98-8	Endosulfan-I	ND		16.4	29.2	178* [a]	16.3	15.6	96	61* [a]	12-142/47
33213-65-9	Endosulfan-II	ND		16.4	19.1	117	16.3	15.1	93	23	10-150/52
76-44-8	Heptachlor	ND		16.4	13.1	80	16.3	9.7	60	30	10-159/49
1024-57-3	Heptachlor epoxide	ND		16.4	17.0	104	16.3	13.8	85	21	16-150/51
72-43-5	Methoxychlor	ND		16.4	13.8	84	16.3	10.6	65	26	10-166/52
53494-70-5	Endrin ketone	ND		16.4	17.2	105	16.3	13.1	80	27	10-171/52
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC19505-1	Limits
877-09-8	Tetrachloro-m-xylene	105%	91%	98%	24-136%
877-09-8	Tetrachloro-m-xylene	92%	79%	89%	24-136%
2051-24-3	Decachlorobiphenyl	121%	105%	119%	10-153%
2051-24-3	Decachlorobiphenyl	103%	89%	96%	10-153%

(a) Outside the QC limits.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G3977-CC3973	**Injection Date:**	05/02/16
Lab File ID:	1G122658.D	**Injection Time:**	15:24
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	1017291384	1.53	81199555	1.16
Upper Limit [a]	2034582768	2.03	162399110	1.66
Lower Limit [b]	508645692	1.03	40599778	0.66

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP93549-MB1	1051152654	1.53	80771141	1.16
OP93549-BS1	1182163371	1.53	92815956	1.16
OP93549-MS	1167490014	1.53	92360380	1.16
OP93549-MSD	1187559742	1.53	89839898	1.16
JC19423-2	1237327436	1.53	95095667	1.16
OP93502-LB12 [c]	1149397584	1.53	88653254	1.16
OP93502-MS [c]	1184010351	1.53	95334321	1.16
OP93502-LS11 [c]	1184010351	1.53	95334321	1.16
OP93502-MSD [c]	1168613303	1.53	93751824	1.16

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(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) bs high, rx batch

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67943.D	**Injection Time:**	07:57
Instrument ID:	GC4G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	388486249	2.07	434701935	1.79
Upper Limit [a]	776972498	2.57	869403870	2.29
Lower Limit [b]	194243125	1.57	217350968	1.29

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP93657-MB1	382579847	2.07	417426330	1.78
OP93657-BS1	397679036	2.07	435383596	1.79
OP93665-MB1	398816489	2.07	424988297	1.79
OP93665-BS1	415399031	2.07	439770811	1.79
ZZZZZZ	405699326	2.07	458281883	1.79
ZZZZZZ	381182811	2.06	420999017	1.79
JC19644-1	413837213	2.07	463444752	1.79
ZZZZZZ	414209405	2.07	430339000	1.79
ZZZZZZ	421517937	2.07	477392614	1.80
ZZZZZZ	281085119	2.06	302392393	1.78
OP93683-MB1	414419618	2.07	387725814	1.80
OP93683-BS1	413764507	2.07	390486091	1.80
OP93683-BS13	419347477	2.07	445433260	1.80
JC19505-1	413208472	2.06	427009489	1.80
ZZZZZZ	452347272	2.06	426658430	1.80
ZZZZZZ	413223149	2.07	426977677	1.80
ZZZZZZ	418079860	2.06	425179669	1.80
ZZZZZZ	428623135	2.07	396199878	1.80
JC19559-1	408492053	2.06	396776540	1.80

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(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.

Semivolatile Internal Standard Area Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67994.D	**Injection Time:**	20:15
Instrument ID:	GC4G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	400969949	2.07	458442877	1.81
Upper Limit [a]	801939898	2.57	916885754	2.31
Lower Limit [b]	200484975	1.57	229221439	1.31

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP93665-MS	417202857	2.07	463724460	1.81
OP93665-MSD	427208697	2.07	484372590	1.81
OP93683-MS	414688968	2.07	431681326	1.81
OP93683-MSD	405019375	2.07	422344641	1.81
ZZZZZZ	384959609	2.07	372515584	1.81
ZZZZZZ	424377943	2.06	401760298	1.79
ZZZZZZ	384573732	2.07	361446818	1.79
ZZZZZZ	421143595	2.07	416717332	1.79
JC19423-1	394965601	2.07	374525232	1.79
ZZZZZZ	347066384	2.07	338267177	1.78
ZZZZZZ	428193682	2.07	419293819	1.80
ZZZZZZ	408791964	2.07	382117609	1.80
ZZZZZZ	428860179	2.07	420448526	1.80

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(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.

DDT/Endrin Breakdown Check

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G3973-DDT
Lab File ID: 1G122523.D
Instrument ID: GC1G
Injection Date: 04/27/16
Injection Time: 11:07

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2975832	57489674
4,4'-DDE	1476894	23701943
4,4'-DDT	138340298	1188209541
DDT Breakdown [a]	3.1 %	6.4 %
Endrin aldehyde	1027311	9780845
Endrin ketone	4226912	46926445
Endrin	76410964	809569906
Endrin Breakdown [b]	6.4 %	6.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G1G3973-IC3973	1G122525.D	04/27/16	11:42	00:35	Initial cal 1
G1G3973-IC3973	1G122526.D	04/27/16	12:00	00:53	Initial cal 2
G1G3973-IC3973	1G122527.D	04/27/16	12:17	01:10	Initial cal 5
G1G3973-IC3973	1G122528.D	04/27/16	12:35	01:28	Initial cal 10
G1G3973-ICC3973	1G122529.D	04/27/16	12:52	01:45	Initial cal 25
G1G3973-IC3973	1G122530.D	04/27/16	13:10	02:03	Initial cal 50
G1G3973-IC3973	1G122531.D	04/27/16	13:27	02:21	Initial cal 75
G1G3973-IC3973	1G122532.D	04/27/16	13:45	02:38	Initial cal 100
G1G3973-IC3973	1G122533.D	04/27/16	14:02	02:56	Initial cal 500
G1G3973-IC3973	1G122534.D	04/27/16	14:20	03:13	Initial cal 500
G1G3973-ICV3973	1G122535.D	04/27/16	14:37	03:31	Initial cal verification 25
G1G3973-ICV3973	1G122536.D	04/27/16	14:55	03:49	Initial cal verification 25
G1G3973-ICV3973	1G122537.D	04/27/16	15:12	04:06	Initial cal verification 500
G1G3973-ICV3973	1G122538.D	04/27/16	15:30	04:23	Initial cal verification 500
G1G3974-CC3973	1G122539.D	04/27/16	16:27	05:21	Continuing cal 25
OP93375-MB1	1G122545.D	04/27/16	18:12	07:06	Method Blank
OP93375-BS1	1G122546.D	04/27/16	18:30	07:23	Blank Spike
JC18944-4	1G122549.D	04/27/16	19:22	08:16	(used for QC only; not part of job JC19423)
OP93375-MS	1G122550.D	04/27/16	19:40	08:33	Matrix Spike
OP93375-MSD	1G122551.D	04/27/16	19:57	08:51	Matrix Spike Duplicate

DDT/Endrin Breakdown Check

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G3977-DDT
Lab File ID: 1G122657.D
Instrument ID: GC1G
Injection Date: 05/02/16
Injection Time: 15:06

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	3371491	60661593
4,4'-DDE	1886745	11780342
4,4'-DDT	212547077	1350052644
DDT Breakdown [a]	2.4 %	5.1 %
Endrin aldehyde	866830	8207103
Endrin ketone	4675728	41147633
Endrin	117597289	854656514
Endrin Breakdown [b]	4.5 %	5.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G1G3977-CC3973	1G122658.D	05/02/16	15:24	00:18	Continuing cal 50
OP93549-MB1	1G122662.D	05/02/16	16:38	01:32	Method Blank
OP93549-BS1	1G122663.D	05/02/16	16:56	01:50	Blank Spike
OP93549-MS	1G122664.D	05/02/16	17:13	02:07	Matrix Spike
OP93549-MSD	1G122665.D	05/02/16	17:31	02:25	Matrix Spike Duplicate
JC19423-2	1G122666.D	05/02/16	17:49	02:42	RA18-GWD
OP93502-LB12	1G122682.D	05/02/16	22:30	07:23	Leachate Blank
OP93502-LS11	1G122683.D	05/02/16	22:47	07:40	Leachate Spike
OP93502-MS	1G122683.D	05/02/16	22:47	07:40	Matrix Spike
OP93502-MSD	1G122684.D	05/02/16	23:05	07:58	Matrix Spike Duplicate

DDT/Endrin Breakdown Check

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G4G1778-DDT	**Injection Date:**	05/02/16
Lab File ID:	4G67830.D	**Injection Time:**	13:55
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10193689	13113095
4,4'-DDE	4928073	5619299
4,4'-DDT	619882928	599939835
DDT Breakdown [a]	2.4 %	3 %
Endrin aldehyde	4622381	4711235
Endrin ketone	15245220	18350578
Endrin	357925656	324995826
Endrin Breakdown [b]	5.3 %	6.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G4G1778-IC1778	4G67832.D	05/02/16	14:26	00:31	Initial cal 1
G4G1778-IC1778	4G67833.D	05/02/16	14:41	00:46	Initial cal 2
G4G1778-IC1778	4G67834.D	05/02/16	14:56	01:01	Initial cal 5
G4G1778-IC1778	4G67835.D	05/02/16	15:11	01:16	Initial cal 10
G4G1778-ICC1778	4G67836.D	05/02/16	15:26	01:31	Initial cal 25
G4G1778-IC1778	4G67837.D	05/02/16	15:41	01:46	Initial cal 50
G4G1778-IC1778	4G67838.D	05/02/16	15:57	02:02	Initial cal 75
G4G1778-IC1778	4G67839.D	05/02/16	16:12	02:17	Initial cal 100
G4G1778-IC1778	4G67840.D	05/02/16	16:27	02:32	Initial cal 500
G4G1778-IC1778	4G67841.D	05/02/16	16:42	02:47	Initial cal 500
G4G1778-ICV1778	4G67842.D	05/02/16	16:57	03:02	Initial cal verification 25
G4G1778-ICV1778	4G67843.D	05/02/16	17:12	03:17	Initial cal verification 25
G4G1778-ICV1778	4G67844.D	05/02/16	17:27	03:32	Initial cal verification 500
G4G1778-ICV1778	4G67845.D	05/02/16	17:43	03:48	Initial cal verification 500

DDT/Endrin Breakdown Check

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1782-DDT
Lab File ID: 4G67942.D
Instrument ID: GC4G
Injection Date: 05/06/16
Injection Time: 07:42

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	3032566	4285767
4,4'-DDE	2546601	3502915
4,4'-DDT	917024392	873373951
DDT Breakdown [a]	0.6 %	0.9 %
Endrin aldehyde	5873647	6487849
Endrin ketone	21044663	18373158
Endrin	500163220	449652175
Endrin Breakdown [b]	5.1 %	5.2 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G4G1782-CC1778	4G67943.D	05/06/16	07:57	00:15	Continuing cal 25
OP93657-MB1	4G67945.D	05/06/16	08:27	00:45	Method Blank
OP93657-BS1	4G67946.D	05/06/16	08:42	01:00	Blank Spike
OP93665-MB1	4G67947.D	05/06/16	08:57	01:15	Method Blank
OP93665-BS1	4G67948.D	05/06/16	09:13	01:31	Blank Spike
ZZZZZZ	4G67950.D	05/06/16	09:28	01:46	(unrelated sample)
ZZZZZZ	4G67951.D	05/06/16	09:43	02:01	(unrelated sample)
JC19644-1	4G67960.D	05/06/16	09:58	02:16	(used for QC only; not part of job JC19423)
ZZZZZZ	4G67961.D	05/06/16	10:13	02:31	(unrelated sample)
ZZZZZZ	4G67962.D	05/06/16	10:28	02:46	(unrelated sample)
ZZZZZZ	4G67952.D	05/06/16	10:44	03:02	(unrelated sample)
OP93683-MB1	4G67963.D	05/06/16	11:10	03:28	Method Blank
OP93683-BS1	4G67964.D	05/06/16	11:25	03:43	Blank Spike
OP93683-BS13	4G67965.D	05/06/16	11:40	03:58	Blank Spike
JC19505-1	4G67966.D	05/06/16	11:55	04:13	(used for QC only; not part of job JC19423)
ZZZZZZ	4G67967.D	05/06/16	12:11	04:29	(unrelated sample)
ZZZZZZ	4G67968.D	05/06/16	12:26	04:44	(unrelated sample)
ZZZZZZ	4G67969.D	05/06/16	12:41	04:59	(unrelated sample)
ZZZZZZ	4G67970.D	05/06/16	12:56	05:14	(unrelated sample)
JC19559-1	4G67971.D	05/06/16	13:19	05:37	(used for QC only; not part of job JC19423)

DDT/Endrin Breakdown Check

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1782-DDT
Lab File ID: 4G67972.D
Instrument ID: GC4G
Injection Date: 05/06/16
Injection Time: 14:42

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	22121084	4963083
4,4'-DDE	5367484	8646322
4,4'-DDT	811155070	952378347
DDT Breakdown [a]	3.3 %	1.4 %
Endrin aldehyde	5587284	5381880
Endrin ketone	21667838	19578143
Endrin	590922440	522374414
Endrin Breakdown [b]	4.4 %	4.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G4G1782-CC1778	4G67973.D	05/06/16	14:57	00:15	Continuing cal 50
OP93694-MB1	4G67975.D	05/06/16	15:27	00:45	Method Blank
OP93694-BS1	4G67976.D	05/06/16	15:43	01:01	Blank Spike
OP93694-MS	4G67977.D	05/06/16	15:58	01:16	Matrix Spike
OP93694-MSD	4G67978.D	05/06/16	16:13	01:31	Matrix Spike Duplicate
ZZZZZZ	4G67979.D	05/06/16	16:28	01:46	(unrelated sample)
JC19759-2	4G67980.D	05/06/16	16:43	02:01	(used for QC only; not part of job JC19423)
ZZZZZZ	4G67981.D	05/06/16	16:58	02:16	(unrelated sample)
ZZZZZZ	4G67982.D	05/06/16	17:13	02:31	(unrelated sample)
ZZZZZZ	4G67983.D	05/06/16	17:29	02:47	(unrelated sample)
ZZZZZZ	4G67984.D	05/06/16	17:44	03:02	(unrelated sample)
ZZZZZZ	4G67985.D	05/06/16	17:59	03:17	(unrelated sample)
ZZZZZZ	4G67986.D	05/06/16	18:14	03:32	(unrelated sample)
ZZZZZZ	4G67987.D	05/06/16	18:29	03:47	(unrelated sample)
ZZZZZZ	4G67988.D	05/06/16	18:44	04:02	(unrelated sample)
ZZZZZZ	4G67989.D	05/06/16	18:59	04:17	(unrelated sample)
OP93657-LB28	4G67990.D	05/06/16	19:15	04:33	Leachate Blank
OP93657-LB29	4G67991.D	05/06/16	19:30	04:48	Leachate Blank
OP93657-LS15	4G67992.D	05/06/16	19:45	05:03	Leachate Spike
OP93657-MS	4G67992.D	05/06/16	19:45	05:03	Matrix Spike
OP93657-MSD	4G67993.D	05/06/16	20:00	05:18	Matrix Spike Duplicate
G4G1782-CC1778	4G67994.D	05/06/16	20:15	05:33	Continuing cal 25
OP93665-MS	4G67996.D	05/06/16	20:46	06:04	Matrix Spike
OP93665-MSD	4G67997.D	05/06/16	21:01	06:19	Matrix Spike Duplicate

DDT/Endrin Breakdown Check

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1782-DDT
Lab File ID: 4G67972.D
Instrument ID: GC4G
Injection Date: 05/06/16
Injection Time: 14:42

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP93683-MS	4G67998.D	05/06/16	21:16	06:34	Matrix Spike
OP93683-MSD	4G67999.D	05/06/16	21:31	06:49	Matrix Spike Duplicate
ZZZZZZ	4G68000.D	05/06/16	21:46	07:04	(unrelated sample)
ZZZZZZ	4G68001.D	05/06/16	22:01	07:19	(unrelated sample)
ZZZZZZ	4G68002.D	05/06/16	22:16	07:34	(unrelated sample)
ZZZZZZ	4G68003.D	05/06/16	22:32	07:50	(unrelated sample)
JC19423-1	4G68004.D	05/06/16	22:47	08:05	MW-20S (7-8)
ZZZZZZ	4G68005.D	05/06/16	23:02	08:20	(unrelated sample)
ZZZZZZ	4G68006.D	05/06/16	23:17	08:35	(unrelated sample)
ZZZZZZ	4G68007.D	05/06/16	23:32	08:50	(unrelated sample)
ZZZZZZ	4G68008.D	05/06/16	23:47	09:05	(unrelated sample)

GC Identification Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G3977-CC3973	**Injection Date:**	05/02/16
Lab File ID:	1G122658.D	**Injection Time:**	15:24
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP93549-BS1	**Injection Date:**	05/02/16
Lab File ID:	1G122663.D	**Injection Time:**	16:56
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	3.29	3.29	0.18		ug/l	18.2
Aldrin	2 [a]	4.49	4.49	0.15		ug/l	
alpha-BHC	1	2.21	2.21	0.20		ug/l	22.2
alpha-BHC	2 [a]	3.04	3.04	0.16		ug/l	
beta-BHC	1 [a]	2.58	2.58	0.19		ug/l	5.1
beta-BHC	2	3.56	3.56	0.20		ug/l	
delta-BHC	1	2.76	2.76	0.22		ug/l	31.6
delta-BHC	2 [a]	3.95	3.95	0.16		ug/l	
gamma-BHC (Lindane)	1	2.50	2.50	0.21		ug/l	33.3
gamma-BHC (Lindane)	2 [a]	3.47	3.47	0.15		ug/l	
alpha-Chlordane	1	4.31	4.31	0.17		ug/l	6.1
alpha-Chlordane	2 [a]	5.82	5.82	0.16		ug/l	
gamma-Chlordane	1	4.14	4.14	0.18		ug/l	11.8
gamma-Chlordane	2 [a]	5.60	5.60	0.16		ug/l	
Dieldrin	1	4.80	4.79	0.19		ug/l	11.1
Dieldrin	2 [a]	6.35	6.35	0.17		ug/l	
4,4'-DDD	1	5.26	5.26	0.19		ug/l	17.1
4,4'-DDD	2 [a]	7.05	7.05	0.16		ug/l	
4,4'-DDE	1	4.43	4.43	0.18		ug/l	18.2
4,4'-DDE	2 [a]	6.10	6.09	0.15		ug/l	
4,4'-DDT	1	5.66	5.65	0.20		ug/l	5.1
4,4'-DDT	2 [a]	7.58	7.58	0.19		ug/l	
Endrin	1	5.11	5.11	0.22		ug/l	20.0
Endrin	2 [a]	6.86	6.86	0.18		ug/l	
Endosulfan sulfate	1	6.73	6.73	0.18		ug/l	5.7
Endosulfan sulfate	2 [a]	8.26	8.25	0.17		ug/l	
Endrin aldehyde	1	6.05	6.05	0.21		ug/l	15.4
Endrin aldehyde	2 [a]	7.78	7.78	0.18		ug/l	
Endrin ketone	1	7.16	7.15	0.21		ug/l	4.9
Endrin ketone	2 [a]	9.22	9.22	0.20		ug/l	
Endosulfan-I	1	4.48	4.48	0.18		ug/l	11.8
Endosulfan-I	2 [a]	5.92	5.92	0.16		ug/l	
Endosulfan-II	1	5.43	5.43	0.19		ug/l	11.1
Endosulfan-II	2 [a]	7.21	7.21	0.17		ug/l	
Heptachlor	1	2.97	2.97	0.19		ug/l	11.1
Heptachlor	2 [a]	4.04	4.04	0.17		ug/l	
Heptachlor epoxide	1	3.99	3.99	0.19		ug/l	11.1
Heptachlor epoxide	2 [a]	5.31	5.31	0.17		ug/l	
Methoxychlor	1	6.44	6.44	0.19		ug/l	5.4
Methoxychlor	2 [a]	8.83	8.83	0.18		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67943.D	**Injection Time:**	07:57
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP93683-BS1	**Injection Date:**	05/06/16
Lab File ID:	4G67964.D	**Injection Time:**	11:25
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	4.44	4.43	17.1		ug/kg	19.9
Aldrin	2 [a]	5.46	5.45	14.0		ug/kg	
alpha-BHC	1	3.15	3.15	16.4		ug/kg	20.9
alpha-BHC	2 [a]	3.87	3.87	13.3		ug/kg	
beta-BHC	1	3.61	3.60	18.7		ug/kg	27.4
beta-BHC	2 [a]	4.44	4.44	14.2		ug/kg	
delta-BHC	1	4.06	4.06	18.7		ug/kg	33.0
delta-BHC	2 [a]	4.87	4.87	13.4		ug/kg	
gamma-BHC (Lindane)	1	3.50	3.49	17.1		ug/kg	22.1
gamma-BHC (Lindane)	2 [a]	4.34	4.34	13.7		ug/kg	
alpha-Chlordane	1	5.56	5.56	17.2		ug/kg	16.4
alpha-Chlordane	2 [a]	6.85	6.85	14.6		ug/kg	
gamma-Chlordane	1	5.38	5.38	18.6		ug/kg	21.4
gamma-Chlordane	2 [a]	6.62	6.61	15.0		ug/kg	
Dieldrin	1	6.08	6.08	18.5		ug/kg	18.9
Dieldrin	2 [a]	7.40	7.40	15.3		ug/kg	
4,4'-DDD	1	6.57	6.56	17.1		ug/kg	15.1
4,4'-DDD	2 [a]	8.08	8.08	14.7		ug/kg	
4,4'-DDE	1	5.70	5.68	14.8		ug/kg	2.7
4,4'-DDE	2 [a]	7.11	7.10	14.4		ug/kg	
4,4'-DDT	1	7.00	6.99	19.9		ug/kg	22.3
4,4'-DDT	2 [a]	8.62	8.62	15.9		ug/kg	
Endrin	1	6.42	6.42	18.1		ug/kg	18.7
Endrin	2 [a]	7.92	7.92	15.0		ug/kg	
Endosulfan sulfate	1	8.09	8.08	18.5		ug/kg	20.9
Endosulfan sulfate	2 [a]	9.33	9.33	15.0		ug/kg	
Endrin aldehyde	1	7.40	7.39	18.2		ug/kg	18.0
Endrin aldehyde	2 [a]	8.86	8.85	15.2		ug/kg	
Endosulfan-I	1	5.75	5.74	18.1		ug/kg	21.4
Endosulfan-I	2 [a]	6.95	6.95	14.6		ug/kg	
Endosulfan-II	1	6.76	6.76	18.1		ug/kg	18.7
Endosulfan-II	2 [a]	8.28	8.28	15.0		ug/kg	
Heptachlor	1	3.83	3.81	16.1		ug/kg	12.5
Heptachlor	2 [a]	4.97	4.97	14.2		ug/kg	
Heptachlor epoxide	1	5.20	5.19	17.8		ug/kg	19.1
Heptachlor epoxide	2 [a]	6.32	6.32	14.7		ug/kg	
Methoxychlor	1	7.81	7.80	20.1		ug/kg	29.1
Methoxychlor	2 [a]	9.83	9.83	15.0		ug/kg	
Endrin ketone	1	8.55	8.55	18.7		ug/kg	20.6
Endrin ketone	2 [a]	10.19	10.19	15.2		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G3977-CC3973	**Injection Date:**	05/02/16
Lab File ID:	1G122658.D	**Injection Time:**	15:24
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP93549-MS	**Injection Date:**	05/02/16
Lab File ID:	1G122664.D	**Injection Time:**	17:13
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.29	3.29	0.20		ug/l	16.2
Aldrin	2	4.49	4.49	0.17		ug/l	
alpha-BHC	1 [a]	2.21	2.21	0.21		ug/l	21.1
alpha-BHC	2	3.04	3.04	0.17		ug/l	
beta-BHC	1 [a]	2.58	2.58	0.20		ug/l	5.1
beta-BHC	2	3.56	3.56	0.19		ug/l	
delta-BHC	1 [a]	2.76	2.76	0.20		ug/l	10.5
delta-BHC	2	3.95	3.95	0.18		ug/l	
gamma-BHC (Lindane)	1 [a]	2.50	2.50	0.21		ug/l	21.1
gamma-BHC (Lindane)	2	3.47	3.47	0.17		ug/l	
alpha-Chlordane	1 [a]	4.31	4.31	0.19		ug/l	5.4
alpha-Chlordane	2	5.82	5.82	0.18		ug/l	
gamma-Chlordane	1 [a]	4.14	4.14	0.19		ug/l	5.4
gamma-Chlordane	2	5.60	5.60	0.18		ug/l	
Dieldrin	1 [a]	4.80	4.79	0.21		ug/l	15.4
Dieldrin	2	6.35	6.35	0.18		ug/l	
4,4'-DDD	1 [a]	5.26	5.26	0.20		ug/l	16.2
4,4'-DDD	2	7.05	7.05	0.17		ug/l	
4,4'-DDE	1 [a]	4.43	4.43	0.20		ug/l	16.2
4,4'-DDE	2	6.10	6.09	0.17		ug/l	
4,4'-DDT	1 [a]	5.66	5.65	0.22		ug/l	4.7
4,4'-DDT	2	7.58	7.58	0.21		ug/l	
Endrin	1 [a]	5.11	5.11	0.22		ug/l	14.6
Endrin	2	6.86	6.86	0.19		ug/l	
Endosulfan sulfate	1 [a]	6.73	6.73	0.19		ug/l	5.4
Endosulfan sulfate	2	8.26	8.25	0.18		ug/l	
Endrin aldehyde	1 [a]	6.05	6.05	0.20		ug/l	5.1
Endrin aldehyde	2	7.78	7.78	0.19		ug/l	
Endrin ketone	1 [a]	7.15	7.15	0.22		ug/l	4.7
Endrin ketone	2	9.22	9.22	0.21		ug/l	
Endosulfan-I	1 [a]	4.48	4.48	0.19		ug/l	11.1
Endosulfan-I	2	5.92	5.92	0.17		ug/l	
Endosulfan-II	1 [a]	5.43	5.43	0.19		ug/l	5.4
Endosulfan-II	2	7.21	7.21	0.18		ug/l	
Heptachlor	1 [a]	2.97	2.97	0.21		ug/l	10.0
Heptachlor	2	4.04	4.04	0.19		ug/l	
Heptachlor epoxide	1 [a]	3.99	3.99	0.20		ug/l	10.5
Heptachlor epoxide	2	5.31	5.31	0.18		ug/l	
Methoxychlor	1 [a]	6.45	6.44	0.20		ug/l	5.1
Methoxychlor	2	8.83	8.83	0.19		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67994.D	**Injection Time:**	20:15
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP93683-MS	**Injection Date:**	05/06/16
Lab File ID:	4G67998.D	**Injection Time:**	21:16
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	4.43	4.43	15.9		ug/kg	9.2
Aldrin	2	5.46	5.46	14.5		ug/kg	
alpha-BHC	1 [a]	3.16	3.16	14.8		ug/kg	7.0
alpha-BHC	2	3.86	3.87	13.8		ug/kg	
beta-BHC	1 [a]	3.63	3.63	15.4		ug/kg	3.2
beta-BHC	2	4.44	4.44	15.9		ug/kg	
delta-BHC	1 [a]	4.06	4.06	15.8		ug/kg	16.4
delta-BHC	2	4.87	4.87	13.4		ug/kg	
gamma-BHC (Lindane)	1 [a]	3.51	3.51	15.3		ug/kg	7.5
gamma-BHC (Lindane)	2	4.34	4.34	14.2		ug/kg	
alpha-Chlordane	1 [a]	5.56	5.56	15.7		ug/kg	3.2
alpha-Chlordane	2	6.85	6.85	15.2		ug/kg	
gamma-Chlordane	1 [a]	5.38	5.38	17.6		ug/kg	18.0
gamma-Chlordane	2	6.61	6.61	14.7		ug/kg	
Dieldrin	1 [a]	6.08	6.08	16.8		ug/kg	6.1
Dieldrin	2	7.40	7.40	15.8		ug/kg	
4,4'-DDD	1 [a]	6.60	6.60	16.0		ug/kg	5.1
4,4'-DDD	2	8.08	8.08	15.2		ug/kg	
4,4'-DDE	1 [a]	5.74	5.72	32.4		ug/kg	71.1
4,4'-DDE	2	7.11	7.11	15.4		ug/kg	
4,4'-DDT	1 [a]	7.01	7.01	14.4		ug/kg	3.4
4,4'-DDT	2	8.62	8.62	14.9		ug/kg	
Endrin	1 [a]	6.42	6.42	16.3		ug/kg	7.6
Endrin	2	7.92	7.92	15.1		ug/kg	
Endosulfan sulfate	1 [a]	8.10	8.10	16.7		ug/kg	12.1
Endosulfan sulfate	2	9.33	9.33	14.8		ug/kg	
Endrin aldehyde	1 [a]	7.40	7.40	16.3		ug/kg	2.5
Endrin aldehyde	2	8.86	8.86	15.9		ug/kg	
Endosulfan-I	1 [a]	5.74	5.74	29.2		ug/kg	63.7
Endosulfan-I	2	6.95	6.95	15.1		ug/kg	
Endosulfan-II	1 [a]	6.77	6.77	19.1		ug/kg	20.2
Endosulfan-II	2	8.28	8.28	15.6		ug/kg	
Heptachlor	1 [a]	3.85	3.85	13.1		ug/kg	10.8
Heptachlor	2	4.97	4.97	14.6		ug/kg	
Heptachlor epoxide	1 [a]	5.20	5.20	17.0		ug/kg	11.8
Heptachlor epoxide	2	6.32	6.32	15.1		ug/kg	
Methoxychlor	1 [a]	7.83	7.83	13.8		ug/kg	3.6
Methoxychlor	2	9.83	9.84	14.3		ug/kg	
Endrin ketone	1 [a]	8.56	8.56	17.2		ug/kg	7.2
Endrin ketone	2	10.19	10.19	16.0		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G3977-CC3973	**Injection Date:**	05/02/16
Lab File ID:	1G122658.D	**Injection Time:**	15:24
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP93549-MSD	**Injection Date:**	05/02/16
Lab File ID:	1G122665.D	**Injection Time:**	17:31
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.29	3.29	0.21		ug/l	21.1
Aldrin	2	4.49	4.49	0.17		ug/l	
alpha-BHC	1 [a]	2.21	2.21	0.23		ug/l	30.0
alpha-BHC	2	3.04	3.04	0.17		ug/l	
beta-BHC	1 [a]	2.58	2.58	0.22		ug/l	9.5
beta-BHC	2	3.56	3.56	0.20		ug/l	
delta-BHC	1 [a]	2.76	2.76	0.22		ug/l	20.0
delta-BHC	2	3.95	3.95	0.18		ug/l	
gamma-BHC (Lindane)	1 [a]	2.50	2.50	0.23		ug/l	30.0
gamma-BHC (Lindane)	2	3.47	3.47	0.17		ug/l	
alpha-Chlordane	1 [a]	4.31	4.31	0.20		ug/l	10.5
alpha-Chlordane	2	5.82	5.82	0.18		ug/l	
gamma-Chlordane	1 [a]	4.14	4.14	0.21		ug/l	15.4
gamma-Chlordane	2	5.60	5.60	0.18		ug/l	
Dieldrin	1 [a]	4.80	4.79	0.22		ug/l	20.0
Dieldrin	2	6.35	6.35	0.18		ug/l	
4,4'-DDD	1 [a]	5.26	5.26	0.24		ug/l	28.6
4,4'-DDD	2	7.05	7.05	0.18		ug/l	
4,4'-DDE	1 [a]	4.43	4.43	0.23		ug/l	24.4
4,4'-DDE	2	6.09	6.09	0.18		ug/l	
4,4'-DDT	1 [a]	5.66	5.65	0.25		ug/l	8.3
4,4'-DDT	2	7.58	7.58	0.23		ug/l	
Endrin	1 [a]	5.11	5.11	0.24		ug/l	23.3
Endrin	2	6.86	6.86	0.19		ug/l	
Endosulfan sulfate	1 [a]	6.73	6.73	0.21		ug/l	10.0
Endosulfan sulfate	2	8.26	8.25	0.19		ug/l	
Endrin aldehyde	1 [a]	6.06	6.05	0.23		ug/l	14.0
Endrin aldehyde	2	7.78	7.78	0.20		ug/l	
Endrin ketone	1 [a]	7.16	7.15	0.24		ug/l	8.7
Endrin ketone	2	9.22	9.22	0.22		ug/l	
Endosulfan-I	1 [a]	4.48	4.48	0.20		ug/l	10.5
Endosulfan-I	2	5.92	5.92	0.18		ug/l	
Endosulfan-II	1 [a]	5.43	5.43	0.22		ug/l	20.0
Endosulfan-II	2	7.21	7.21	0.18		ug/l	
Heptachlor	1 [a]	2.97	2.97	0.22		ug/l	20.0
Heptachlor	2	4.04	4.04	0.18		ug/l	
Heptachlor epoxide	1 [a]	3.99	3.99	0.22		ug/l	14.6
Heptachlor epoxide	2	5.31	5.31	0.19		ug/l	
Methoxychlor	1 [a]	6.44	6.44	0.22		ug/l	4.7
Methoxychlor	2	8.83	8.83	0.21		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67994.D	**Injection Time:**	20:15
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP93683-MSD	**Injection Date:**	05/06/16
Lab File ID:	4G67999.D	**Injection Time:**	21:31
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	4.43	4.43	12.7		ug/kg	7.3
Aldrin	2	5.46	5.46	11.8		ug/kg	
alpha-BHC	1 [a]	3.16	3.16	11.6		ug/kg	7.1
alpha-BHC	2	3.87	3.87	10.8		ug/kg	
beta-BHC	1 [a]	3.63	3.63	11.8		ug/kg	2.5
beta-BHC	2	4.44	4.44	12.1		ug/kg	
delta-BHC	1 [a]	4.06	4.06	11.9		ug/kg	13.5
delta-BHC	2	4.88	4.87	10.4		ug/kg	
gamma-BHC (Lindane)	1 [a]	3.51	3.51	12.0		ug/kg	7.8
gamma-BHC (Lindane)	2	4.35	4.34	11.1		ug/kg	
alpha-Chlordane	1 [a]	5.56	5.56	10.9		ug/kg	8.8
alpha-Chlordane	2	6.85	6.85	11.9		ug/kg	
gamma-Chlordane	1 [a]	5.38	5.38	13.6		ug/kg	10.9
gamma-Chlordane	2	6.62	6.61	12.2		ug/kg	
Dieldrin	1 [a]	6.09	6.08	13.4		ug/kg	6.2
Dieldrin	2	7.40	7.40	12.6		ug/kg	
4,4'-DDD	1 [a]	6.60	6.60	12.6		ug/kg	5.7
4,4'-DDD	2	8.08	8.08	11.9		ug/kg	
4,4'-DDE	1 [a]	5.71	5.72	7.6		ug/kg	44.9
4,4'-DDE	2	7.11	7.11	12.0		ug/kg	
4,4'-DDT	1 [a]	7.01	7.01	11.1		ug/kg	5.3
4,4'-DDT	2	8.62	8.62	11.7		ug/kg	
Endrin	1 [a]	6.42	6.42	12.8		ug/kg	6.5
Endrin	2	7.92	7.92	12.0		ug/kg	
Endosulfan sulfate	1 [a]	8.10	8.10	13.3		ug/kg	11.1
Endosulfan sulfate	2	9.33	9.33	11.9		ug/kg	
Endrin aldehyde	1 [a]	7.40	7.40	13.0		ug/kg	1.6
Endrin aldehyde	2	8.86	8.86	12.8		ug/kg	
Endosulfan-I	1 [a]	5.75	5.74	15.6		ug/kg	26.9
Endosulfan-I	2	6.95	6.95	11.9		ug/kg	
Endosulfan-II	1 [a]	6.77	6.77	15.1		ug/kg	18.8
Endosulfan-II	2	8.28	8.28	12.5		ug/kg	
Heptachlor	1 [a]	3.85	3.85	9.7		ug/kg	17.0
Heptachlor	2	4.97	4.97	11.5		ug/kg	
Heptachlor epoxide	1 [a]	5.20	5.20	13.8		ug/kg	13.1
Heptachlor epoxide	2	6.32	6.32	12.1		ug/kg	
Methoxychlor	1 [a]	7.83	7.83	10.6		ug/kg	4.6
Methoxychlor	2	9.83	9.84	11.1		ug/kg	
Endrin ketone	1 [a]	8.56	8.56	13.1		ug/kg	1.5
Endrin ketone	2	10.19	10.19	12.9		ug/kg	

(a) QC results reported from this column.

Semivolatile Surrogate Recovery Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JC19423-2	1G122666.D	115	102	98	124* [c]
OP93549-BS1	1G122663.D	104	95	92	118
OP93549-MB1	1G122662.D	96	85	83	106
OP93549-MS	1G122664.D	108	98	90	118
OP93549-MSD	1G122665.D	91	81	85	107

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	26-132%
S2 = Decachlorobiphenyl	10-118%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) High percent recoveries and no positive found in the sample.

Semivolatile Surrogate Recovery Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JC19423-1	4G68004.D	109	93	107	96
OP93683-BS1	4G67964.D	109	88	131	97
OP93683-MB1	4G67963.D	104	87	127	94
OP93683-MS	4G67998.D	105	92	121	103
OP93683-MSD	4G67999.D	91	79	105	89

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	24-136%
S2 = Decachlorobiphenyl	10-153%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G3977-CC3973	**Injection Date:**	05/02/16
Lab File ID:	1G122658.D	**Injection Time:**	15:24
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.74	2.37	8.93	10.86

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP93549-MB1	1G122662.D	05/02/16	16:38	1.74	2.37	8.93	10.86
OP93549-BS1	1G122663.D	05/02/16	16:56	1.74	2.37	8.93	10.86
OP93549-MS	1G122664.D	05/02/16	17:13	1.74	2.37	8.94	10.86
OP93549-MSD	1G122665.D	05/02/16	17:31	1.74	2.37	8.93	10.86
JC19423-2	1G122666.D	05/02/16	17:49	1.74	2.37	8.93	10.86
OP93502-LB12	1G122682.D	05/02/16	22:30	1.74	2.37	8.94	10.86
OP93502-MS	1G122683.D	05/02/16	22:47	1.74	2.37	8.94	10.86
OP93502-LS11	1G122683.D	05/02/16	22:47	1.74	2.37	8.94	10.86
OP93502-MSD	1G122684.D	05/02/16	23:05	1.74	2.37	8.94	10.86

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67943.D	**Injection Time:**	07:57
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.58	3.11	10.24	11.64

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP93657-MB1	4G67945.D	05/06/16	08:27	2.58	3.10	10.24	11.65
OP93657-BS1	4G67946.D	05/06/16	08:42	2.58	3.10	10.24	11.65
OP93665-MB1	4G67947.D	05/06/16	08:57	2.58	3.10	10.24	11.65
OP93665-BS1	4G67948.D	05/06/16	09:13	2.58	3.10	10.24	11.65
ZZZZZZ	4G67950.D	05/06/16	09:28	2.58	3.10	10.24	11.65
ZZZZZZ	4G67951.D	05/06/16	09:43	2.58	3.10	10.24	11.65
JC19644-1	4G67960.D	05/06/16	09:58	2.58	3.10	10.25	11.65
ZZZZZZ	4G67961.D	05/06/16	10:13	2.58	3.10	10.24	11.65
ZZZZZZ	4G67962.D	05/06/16	10:28	2.58	3.10	10.24	11.65
ZZZZZZ	4G67952.D	05/06/16	10:44	2.58	3.11	10.24	11.64
OP93683-MB1	4G67963.D	05/06/16	11:10	2.60	3.10	10.25	11.65
OP93683-BS1	4G67964.D	05/06/16	11:25	2.59	3.11	10.24	11.65
OP93683-BS13	4G67965.D	05/06/16	11:40	2.59	3.11	10.24	11.65
JC19505-1	4G67966.D	05/06/16	11:55	2.59	3.11	10.24	11.65
ZZZZZZ	4G67967.D	05/06/16	12:11	2.59	3.11	10.24	11.65
ZZZZZZ	4G67968.D	05/06/16	12:26	2.59	3.11	10.24	11.65
ZZZZZZ	4G67969.D	05/06/16	12:41	2.59	3.11	10.24	11.64
ZZZZZZ	4G67970.D	05/06/16	12:56	2.60	3.11	10.24	11.64
JC19559-1	4G67971.D	05/06/16	13:19	2.60	3.10	10.25	11.65

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67994.D	**Injection Time:**	20:15
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.60	3.10	10.25	11.64

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP93665-MS	4G67996.D	05/06/16	20:46	2.60	3.10	10.25	11.64
OP93665-MSD	4G67997.D	05/06/16	21:01	2.60	3.10	10.25	11.64
OP93683-MS	4G67998.D	05/06/16	21:16	2.59	3.10	10.25	11.64
OP93683-MSD	4G67999.D	05/06/16	21:31	2.60	3.11	10.25	11.64
ZZZZZZ	4G68000.D	05/06/16	21:46	2.60	3.11	10.24	11.64
ZZZZZZ	4G68001.D	05/06/16	22:01	2.58	3.10	10.23	11.64
ZZZZZZ	4G68002.D	05/06/16	22:16	2.58	3.11	10.24	11.64
ZZZZZZ	4G68003.D	05/06/16	22:32	2.58	3.11	10.24	11.64
JC19423-1	4G68004.D	05/06/16	22:47	2.58	3.11	10.24	11.64
ZZZZZZ	4G68005.D	05/06/16	23:02	2.58	3.11	10.24	11.64
ZZZZZZ	4G68006.D	05/06/16	23:17	2.58	3.11	10.24	11.64
ZZZZZZ	4G68007.D	05/06/16	23:32	2.58	3.10	10.24	11.64
ZZZZZZ	4G68008.D	05/06/16	23:47	2.58	3.11	10.24	11.64

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G1G3973-ICC3973
Lab FileID: 1G122529.D

Response Factor Report GC1G

Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration

Calibration Files
2 =1G122526.D 5 =1G122527.D 10 =1G122528.D 25 =1G122529.D
50 =1G122530.D 100 =1G122532.D 1 =1G122525.D 75 =1G122531.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	1.085	1.004	1.014	1.029	1.009	1.029	1.202	1.009	1.048	6.44
3) alpha-BHC	1.181	1.167	1.173	1.275	1.360	1.525	1.170	1.436	1.286	10.87
4) gamma-BHC	1.162	1.129	1.141	1.236	1.300	1.435	1.208	1.358	1.246	8.82
5) Heptachlor	1.306	1.279	1.275	1.357	1.397	1.498	1.354	1.438	1.363	5.76
6) beta-BHC	0.586	0.602	0.591	0.604	0.601	0.641	0.676	0.607	0.613	4.93
7) delta-BHC	0.883	0.959	1.000	1.050	1.145	1.290	0.918	1.205	1.056	13.69
8) Aldrin	1.262	1.210	1.230	1.310	1.363	1.477	1.328	1.413	1.324	6.92
9) Heptachlor E	1.268	1.278	1.297	1.359	1.360	1.432	1.248	1.383	1.328	4.87
10) gamma-Chlord	1.329	1.258	1.257	1.317	1.348	1.435	1.444	1.376	1.346	5.27
11) alpha-Chlord	1.326	1.276	1.269	1.324	1.345	1.424	1.487	1.367	1.352	5.42
12) Endosulfan I	1.483	1.370	1.389	1.445	1.448	1.540	1.411	1.469	1.444	3.79
13) 4,4'-DDE	1.016	1.004	1.011	1.041	1.092	1.185	1.260	1.127	1.092	8.52
14) Dieldrin	1.240	1.176	1.220	1.298	1.343	1.457	1.362	1.392	1.311	7.25
15) Endrin	1.168	1.130	1.152	1.212	1.246	1.327	1.118	1.278	1.204	6.23
16) 4,4'-DDD	0.890	0.827	0.935	0.962	0.901	1.034	0.825	0.987	0.920	8.07
17) Endosulfan I	1.179	1.146	1.202	1.256	1.227	1.338	1.061	1.291	1.212	7.15
18) 4,4'-DDT	0.671	0.751	0.786	0.908	0.960	1.090	0.701	1.020	0.861	18.08
19) Endrin Aldeh	0.988	0.924	0.979	1.019	1.028	1.081	1.025	1.043	1.011	4.65
20) Endosulfan S	1.142	1.069	1.082	1.144	1.145	1.198	1.060	1.164	1.126	4.38
21) Methoxychlor	0.584	0.539	0.553	0.595	0.590	0.612	0.591	0.599	0.583	4.22
22) Mirex	1.587	1.435	1.378	1.411	1.333	1.311	1.556	1.310	1.415	7.55
23) Endrin Keton	1.108	1.017	1.050	1.130	1.175	1.228	1.041	1.186	1.117	6.85
24) Decachlorobi	1.957	1.892	1.855	1.846	1.768	1.730	2.027	1.725	1.850	5.83
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.022				0.022	0.00
27) Toxaphene{B}					0.052				0.052	0.00
28) Toxaphene{C}					0.040				0.040	0.00
29) Toxaphene{D}					0.038				0.038	0.00
30) Toxaphene{E}					0.037				0.037	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.036				0.036	0.00
33) Chlordane {B					0.052				0.052	0.00
34) Chlordane {C					0.169				0.169	0.00
35) Chlordane {D					0.274				0.274	0.00
36) Chlordane {E					0.037				0.037	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	1.013	0.950	0.923	0.892	0.856	0.824	0.946	0.830	0.904	7.27
3) alpha-BHC	1.459	1.396	1.377	1.359	1.303	1.280	1.511	1.276	1.370	6.17
4) gamma-BHC	1.298	1.234	1.214	1.209	1.161	1.138	1.360	1.134	1.218	6.48

Initial Calibration Summary

Job Number: JC19423 **Sample:** G1G3973-ICC3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122529.D
Project: BMSMC, Building 5 Area, PR

5)	Heptachlor	1.179	1.085	1.051	1.049	1.016	0.980	1.232	0.987	1.072	8.43
6)	beta-BHC	0.558	0.509	0.504	0.515	0.500	0.484	0.570	0.484	0.516	6.18
7)	delta-BHC	1.181	1.157	1.129	1.135	1.114	1.096	1.182	1.094	1.136	3.07
8)	Aldrin	1.313	1.170	1.125	1.098	1.025	0.981	1.407	0.986	1.138	13.55
9)	Heptachlor E	1.161	1.034	1.019	0.990	0.925	0.873	1.149	0.885	1.004	10.94
10)	gamma-Chlord	1.132	1.018	0.990	0.979	0.915	0.887	1.119	0.883	0.990	9.77
11)	alpha-Chlord	1.050	0.983	0.954	0.935	0.874	0.841	1.251	0.842	0.966	14.04
12)	Endosulfan I	1.069	0.992	0.947	0.931	0.866	0.830	1.192	0.830	0.957	13.12
13)	4,4'-DDE	1.080	0.951	0.940	0.960	0.905	0.880	1.068	0.873	0.957	8.23
14)	Dieldrin	1.148	1.058	1.024	1.009	0.944	0.914	1.105	0.909	1.014	8.69
15)	Endrin	1.004	0.929	0.911	0.891	0.845	0.804	0.980	0.813	0.897	8.20
16)	4,4'-DDD	0.902	0.838	0.833	0.828	0.780	0.744	1.016	0.746	0.836	10.77
17)	Endosulfan I	0.926	0.887	0.881	0.895	0.837	0.795	1.093	0.802	0.889	10.59
18)	4,4'-DDT	0.428	0.491	0.541	0.605	0.613	0.613	0.403	0.606	0.538	16.16
19)	Endrin Aldeh	0.659	0.644	0.655	0.665	0.627	0.602	0.662	0.604	0.640	4.03
20)	Endosulfan S	0.798	0.752	0.734	0.731	0.696	0.658	0.744	0.666	0.722	6.48
21)	Methoxychlor	0.305	0.270	0.287	0.307	0.305	0.311	0.344	0.305	0.304	6.96
22)	Mirex	0.635	0.607	0.587	0.566	0.539	0.512	0.673	0.516	0.579	9.87
23)	Endrin Keton	0.719	0.657	0.669	0.677	0.660	0.644	0.689	0.638	0.669	3.91
24)	Decachlorobi	0.573	0.545	0.535	0.521	0.492	0.472	0.610	0.472	0.528	9.22

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.020	0.020	0.00
27)	Toxaphene{B}	0.025	0.025	0.00
28)	Toxaphene{C}	0.037	0.037	0.00
29)	Toxaphene{D}	0.022	0.022	0.00
30)	Toxaphene{E}	0.016	0.016	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.031	0.031	0.00
33)	Chlordane {B	0.032	0.032	0.00
34)	Chlordane {C	0.105	0.105	0.00
35)	Chlordane {D	0.177	0.177	0.00
36)	Chlordane {E	0.029	0.029	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

1PST3973.M Wed Apr 27 16:35:14 2016 RPT1

8.9.1

8

Initial Calibration Verification

Job Number: JC19423 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122535.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD2B.CH
Acq On    : 4-27-16 02:37:54 PM                      Operator: dharas
Sample    : icv3973-25                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	109	0.00	1.14- 1.20
2	SAB	Tetrachloro-m-xylene	1.048	0.895	14.6	95	0.00	1.72- 1.78
3	A	alpha-BHC	1.286	1.056	17.9	90	0.00	2.19- 2.25
4	MA	gamma-BHC	1.246	1.033	17.1	91	0.00	2.48- 2.54
5	MA	Heptachlor	1.363	1.105	18.9	89	0.00	2.95- 3.01
6	B	beta-BHC	0.613	0.521	15.0	94	0.00	2.56- 2.62
7	B	delta-BHC	1.056	0.945	10.5	98	0.00	2.74- 2.80
8	MB	Aldrin	1.324	1.083	18.2	90	0.00	3.27- 3.33
9	B	Heptachlor Epoxide	1.328	1.130	14.9	91	0.00	3.96- 4.02
10	B	gamma-Chlordane	1.346	1.129	16.1	93	0.00	4.12- 4.18
11	B	alpha-Chlordane	1.352	1.118	17.3	92	0.00	4.28- 4.34
12	A	Endosulfan I	1.444	1.215	15.9	92	0.00	4.46- 4.52
13	B	4,4'-DDE	1.092	0.875	19.9	92	0.00	4.41- 4.47
14	MA	Dieldrin	1.311	1.112	15.2	93	0.00	4.77- 4.83
15	MA	Endrin	1.204	1.053	12.5	95	0.00	5.09- 5.15
16	A	4,4'-DDD	0.920	0.805	12.5	91	0.02	5.24- 5.31
17	B	Endosulfan II	1.212	1.066	12.0	93	0.00	5.41- 5.47
18	MA	4,4'-DDT	0.861	0.720	16.4	86	0.00	5.63- 5.69
19	B	Endrin Aldehyde	1.011	0.939	7.1	100	0.00	6.03- 6.09
20	B	Endosulfan Sulfate	1.126	0.952	15.5	91	0.00	6.71- 6.77
21	A	Methoxychlor	0.583	0.521	10.6	96	0.01	6.43- 6.49
22		Mirex		----------NA----------				
23	B	Endrin Ketone	1.117	0.956	14.4	92	0.00	7.13- 7.19
24	SA	Decachlorobiphenyl	1.850	1.662	10.2	98	0.00	8.91- 8.97
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.07- 1.27
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.07- 1.27
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G3973-ICV3973
Lab FileID: 1G122535.D

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	109	0.00	1.51- 1.57
2	SAB	Tetrachloro-m-xylene	0.904	0.796	11.9	98	0.00	2.35- 2.41
3	A	alpha-BHC	1.370	1.151	16.0	93	0.00	3.01- 3.07
4	MA	gamma-BHC	1.218	1.027	15.7	93	0.00	3.44- 3.50
5	MA	Heptachlor	1.072	0.908	15.3	95	-0.01	4.01- 4.07
6	B	beta-BHC	0.516	0.448	13.2	95	0.00	3.53- 3.59
7	B	delta-BHC	1.136	1.026	9.7	99	0.00	3.93- 3.99
8	MB	Aldrin	1.138	0.938	17.6	93	-0.01	4.46- 4.52
9	B	Heptachlor Epoxide	1.004	0.854	14.9	94	-0.01	5.29- 5.35
10	B	gamma-Chlordane	0.990	0.857	13.4	96	-0.01	5.57- 5.63
11	B	alpha-Chlordane	0.966	0.807	16.5	94	-0.01	5.80- 5.86
12	A	Endosulfan I	0.957	0.797	16.7	94	-0.01	5.89- 5.95
13	B	4,4'-DDE	0.957	0.844	11.8	96	0.00	6.07- 6.13
14	MA	Dieldrin	1.014	0.892	12.0	97	-0.01	6.32- 6.38
15	MA	Endrin	0.897	0.807	10.0	99	-0.01	6.83- 6.89
16	A	4,4'-DDD	0.836	0.727	13.0	96	0.00	7.03- 7.09
17	B	Endosulfan II	0.889	0.782	12.0	96	-0.01	7.18- 7.24
18	MA	4,4'-DDT	0.538	0.501	6.9	90	0.00	7.55- 7.61
19	B	Endrin Aldehyde	0.640	0.617	3.6	102	-0.01	7.76- 7.82
20	B	Endosulfan Sulfate	0.722	0.638	11.6	95	-0.01	8.23- 8.29
21	A	Methoxychlor	0.304	0.263	13.5	94	0.00	8.81- 8.87
22		Mirex		----------NA----------				
23	B	Endrin Ketone	0.669	0.586	12.4	95	-0.01	9.19- 9.25
24	SA	Decachlorobiphenyl	0.528	0.490	7.2	103	0.00	10.84-10.90
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.44- 1.64
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.44- 1.64
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G122529.D 1PST3973.M Wed Apr 27 16:18:39 2016 RPT1

8.9.2
8

Initial Calibration Verification

Job Number: JC19423 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122536.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD2B.CH
Acq On    : 4-27-16 02:55:30 PM                      Operator: dharas
Sample    : icv3973-25                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.14- 1.20
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex	1.415	1.308	7.6	97	0.00	6.51- 6.57
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.07- 1.27
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.07- 1.27
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

8.9.3

8

Initial Calibration Verification

Job Number: JC19423 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122536.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.51- 1.57
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex	0.579	0.559	3.5	107	-0.01	9.12- 9.18
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.44- 1.64
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.44- 1.64
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G122529.D 1PST3973.M Wed Apr 27 16:19:12 2016 RPT1

8.9.3

8

Initial Calibration Verification

Job Number: JC19423 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122537.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD2B.CH
Acq On    : 4-27-16 03:12:59 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.14- 1.20
2	SAB	Tetrachloro-m-xylene	1.048	0.897	14.4	93	0.00	1.72- 1.78
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	1.850	1.670	9.7	99	0.00	8.91- 8.97
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.07- 1.27
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	1.07- 1.27
32		Chlordane {A}	0.071	0.058	18.3	79	0.00	2.88- 3.08
33		Chlordane {B}	0.055	0.049	10.9	87	0.00	3.35- 3.55
34		Chlordane {C}	0.170	0.167	1.8	95	0.00	4.05- 4.25
35		Chlordane {D}	0.276	0.276	0.0	97	0.00	4.21- 4.41
36		Chlordane {E}	0.039	0.043	-10.3	108	0.00	5.23- 5.43

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC19423 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122537.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.51- 1.57
2	SAB	Tetrachloro-m-xylene	0.904	0.754	16.6	93	0.00	2.35- 2.41
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	0.528	0.485	8.1	104	0.00	10.84-10.90
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	94	0.00	1.44- 1.64
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	1.44- 1.64
32		Chlordane {A}	0.054	0.050	7.4	90	0.00	3.94- 4.14
33		Chlordane {B}	0.031	0.034	-9.7	105	0.00	4.59- 4.79
34		Chlordane {C}	0.105	0.107	-1.9	98	0.00	5.50- 5.70
35		Chlordane {D}	0.177	0.180	-1.7	98	0.00	5.72- 5.92
36		Chlordane {E}	0.029	0.031	-6.9	102	0.00	7.19- 7.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G122530.D 1PST3973.M Wed Apr 27 16:20:30 2016 RPT1

8.9.4

8

Initial Calibration Verification

Job Number: JC19423 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122538.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD2B.CH
Acq On    : 4-27-16 03:30:28 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.14- 1.20
2	SAB	Tetrachloro-m-xylene	1.048	0.851	18.8	90	0.00	1.72- 1.78
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	1.850	1.580	14.6	95	0.00	8.91- 8.97
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.07- 1.27
26	L8	Toxaphene{A}	0.022	0.021	4.5	93	0.00	4.71- 4.91
27	L8	Toxaphene{B}	0.052	0.052	0.0	99	0.00	5.32- 5.52
28	L8	Toxaphene{C}	0.040	0.039	2.5	97	0.00	5.50- 5.70
29	L8	Toxaphene{D}	0.038	0.038	0.0	99	0.00	5.83- 6.03
30	L8	Toxaphene{E}	0.037	0.037	0.0	99	0.00	6.46- 6.66
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.07- 1.27
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC19423 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122538.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.51- 1.57
2	SAB	Tetrachloro-m-xylene	0.904	0.739	18.3	92	0.00	2.35- 2.41
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	0.528	0.457	13.4	99	0.00	10.84-10.90
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.44- 1.64
26	L8	Toxaphene{A}	0.020	0.023	-15.0	109	0.00	6.22- 6.42
27	L8	Toxaphene{B}	0.025	0.028	-12.0	107	-0.01	7.08- 7.28
28	L8	Toxaphene{C}	0.037	0.037	0.0	94	0.00	7.25- 7.45
29	L8	Toxaphene{D}	0.022	0.026	-18.2	110	-0.01	7.69- 7.89
30	L8	Toxaphene{E}	0.016	0.019	-18.7	108	-0.01	8.59- 8.79
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.44- 1.64
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G122530.D 1PST3973.M Wed Apr 27 16:20:31 2016 RPT1

8.9.5

8

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G1G3977-CC3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122658.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122658.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122658.D\ECD2B.CH
Acq On    : 5-2-16 03:24:24 PM                        Operator: dharas
Sample    : cc3973-50                                 Inst    : GC1G
Misc      : op93517,g1g3977,15.1,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	140	0.00	1.13- 1.19
2	SAB	Tetrachloro-m-xylene	1.048	1.035	1.2	144	0.00	1.71- 1.77
3	A	alpha-BHC	1.286	1.581	-22.9#	163	0.00	2.18- 2.24
4	MA	gamma-BHC	1.246	1.430	-14.8	155	-0.01	2.47- 2.53
5	MA	Heptachlor	1.363	1.545	-13.4	155	-0.01	2.94- 3.00
6	B	beta-BHC	0.613	0.632	-3.1	148	0.00	2.55- 2.61
7	B	delta-BHC	1.056	1.314	-24.4#	161	0.00	2.73- 2.79
8	MB	Aldrin	1.324	1.480	-11.8	153	-0.01	3.26- 3.32
9	B	Heptachlor Epoxide	1.328	1.359	-2.3	140	-0.02	3.96- 4.02
10	B	gamma-Chlordane	1.346	1.334	0.9	139	-0.01	4.11- 4.17
11	B	alpha-Chlordane	1.352	1.333	1.4	139	-0.01	4.28- 4.34
12	A	Endosulfan I	1.444	1.433	0.8	139	-0.01	4.45- 4.51
13	B	4,4'-DDE	1.092	1.210	-10.8	156	0.00	4.40- 4.46
14	MA	Dieldrin	1.311	1.422	-8.5	149	-0.02	4.76- 4.82
15	MA	Endrin	1.204	1.347	-11.9	152	-0.02	5.08- 5.14
16	A	4,4'-DDD	0.920	1.013	-10.1	158	0.00	5.22- 5.29
17	B	Endosulfan II	1.212	1.261	-4.0	144	-0.01	5.40- 5.46
18	MA	4,4'-DDT	0.861	1.054	-22.4#	154	0.00	5.62- 5.68
19	B	Endrin Aldehyde	1.011	0.967	4.4	132	-0.01	6.02- 6.08
20	B	Endosulfan Sulfate	1.126	1.132	-0.5	139	-0.01	6.70- 6.76
21	A	Methoxychlor	0.583	0.567	2.7	135	0.00	6.41- 6.47
22		Mirex	1.415	1.110	21.6#	117	-0.02	6.50- 6.56
23	B	Endrin Ketone	1.117	1.274	-14.1	152	-0.02	7.12- 7.18
24	SA	Decachlorobiphenyl	1.850	1.391	24.8#	111	0.00	8.90- 8.96
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	131	0.00	1.06- 1.26
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	129	0.00	1.06- 1.26
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G1G3977-CC3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122658.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	111	0.00	1.50- 1.56
2	SAB	Tetrachloro-m-xylene	0.904	0.825	8.7	107	0.00	2.34- 2.40
3	A	alpha-BHC	1.370	1.272	7.2	109	0.00	3.01- 3.07
4	MA	gamma-BHC	1.218	1.088	10.7	104	-0.01	3.44- 3.50
5	MA	Heptachlor	1.072	1.058	1.3	116	-0.01	4.01- 4.07
6	B	beta-BHC	0.516	0.453	12.2	101	0.00	3.53- 3.59
7	B	delta-BHC	1.136	1.030	9.3	103	0.00	3.92- 3.98
8	MB	Aldrin	1.138	1.008	11.4	109	-0.01	4.46- 4.52
9	B	Heptachlor Epoxide	1.004	0.883	12.1	106	-0.02	5.28- 5.34
10	B	gamma-Chlordane	0.990	0.889	10.2	108	-0.01	5.57- 5.63
11	B	alpha-Chlordane	0.966	0.849	12.1	108	-0.02	5.79- 5.85
12	A	Endosulfan I	0.957	0.821	14.2	105	-0.02	5.89- 5.95
13	B	4,4'-DDE	0.957	0.857	10.4	105	-0.01	6.06- 6.12
14	MA	Dieldrin	1.014	0.901	11.1	106	-0.02	6.32- 6.38
15	MA	Endrin	0.897	0.817	8.9	108	-0.02	6.83- 6.89
16	A	4,4'-DDD	0.836	0.723	13.5	103	0.00	7.02- 7.08
17	B	Endosulfan II	0.889	0.775	12.8	103	-0.01	7.18- 7.24
18	MA	4,4'-DDT	0.538	0.586	-8.9	106	-0.01	7.55- 7.61
19	B	Endrin Aldehyde	0.640	0.579	9.5	103	-0.02	7.75- 7.81
20	B	Endosulfan Sulfate	0.722	0.659	8.7	105	-0.02	8.22- 8.28
21	A	Methoxychlor	0.304	0.301	1.0	110	-0.01	8.80- 8.86
22		Mirex	0.579	0.523	9.7	108	-0.02	9.11- 9.17
23	B	Endrin Ketone	0.669	0.686	-2.5	116	-0.02	9.19- 9.25
24	SA	Decachlorobiphenyl	0.528	0.516	2.3	117	0.00	10.83-10.89
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.43- 1.63
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.43- 1.63
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G122530.D 1PST3973.M Tue May 03 11:43:56 2016 RPT1

8.9.6

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G1G3978-CC3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122689.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3978\1G122689.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G3978\1G122689.D\ECD2B.CH
Acq On    : 03 May 2016  10:29 am                    Operator: dharas
Sample    : cc3973-25                                Inst    : GC1G
Misc      : op93501,g1g3978,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	137	-0.01	1.13- 1.19
2	SAB	Tetrachloro-m-xylene	1.048	1.032	1.5	138	0.00	1.71- 1.77
3	A	alpha-BHC	1.286	1.501	-16.7	162	-0.01	2.18- 2.24
4	MA	gamma-BHC	1.246	1.405	-12.8	156	-0.01	2.47- 2.53
5	MA	Heptachlor	1.363	1.541	-13.1	156	-0.01	2.94- 3.00
6	B	beta-BHC	0.613	0.632	-3.1	144	0.00	2.55- 2.61
7	B	delta-BHC	1.056	1.332	-26.1#	174	0.00	2.73- 2.79
8	MB	Aldrin	1.324	1.471	-11.1	154	-0.01	3.26- 3.32
9	B	Heptachlor Epoxide	1.328	1.347	-1.4	136	-0.01	3.96- 4.02
10	B	gamma-Chlordane	1.346	1.383	-2.7	144	-0.01	4.11- 4.17
11	B	alpha-Chlordane	1.352	1.390	-2.8	144	-0.01	4.28- 4.34
12	A	Endosulfan I	1.444	1.430	1.0	136	-0.01	4.45- 4.51
13	B	4,4'-DDE	1.092	1.274	-16.7	168	0.00	4.40- 4.46
14	MA	Dieldrin	1.311	1.439	-9.8	152	-0.02	4.77- 4.83
15	MA	Endrin	1.204	1.357	-12.7	154	-0.01	5.08- 5.14
16	A	4,4'-DDD	0.920	1.061	-15.3	152	0.00	5.22- 5.29
17	B	Endosulfan II	1.212	1.287	-6.2	141	-0.01	5.40- 5.46
18	MA	4,4'-DDT	0.861	1.051	-22.1#	159	0.00	5.62- 5.68
19	B	Endrin Aldehyde	1.011	1.013	-0.2	136	-0.01	6.02- 6.08
20	B	Endosulfan Sulfate	1.126	1.159	-2.9	139	-0.01	6.70- 6.76
21	A	Methoxychlor	0.583	0.604	-3.6	139	0.00	6.41- 6.47
22		Mirex	1.415	1.161	18.0	113	-0.02	6.50- 6.56
23	B	Endrin Ketone	1.117	1.263	-13.1	154	-0.01	7.12- 7.18
24	SA	Decachlorobiphenyl	1.850	1.481	19.9	110	0.00	8.90- 8.96
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	-0.01	1.06- 1.26
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	-0.01	1.06- 1.26
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G1G3978-CC3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122689.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.50- 1.56
2	SAB	Tetrachloro-m-xylene	0.904	0.815	9.8	99	0.00	2.34- 2.40
3	A	alpha-BHC	1.370	1.247	9.0	99	-0.01	3.01- 3.07
4	MA	gamma-BHC	1.218	1.101	9.6	98	-0.01	3.44- 3.50
5	MA	Heptachlor	1.072	1.063	0.8	110	-0.01	4.01- 4.07
6	B	beta-BHC	0.516	0.474	8.1	99	0.00	3.53- 3.59
7	B	delta-BHC	1.136	1.052	7.4	100	0.00	3.92- 3.98
8	MB	Aldrin	1.138	1.050	7.7	103	-0.01	4.46- 4.52
9	B	Heptachlor Epoxide	1.004	0.935	6.9	102	-0.02	5.28- 5.34
10	B	gamma-Chlordane	0.990	0.928	6.3	102	-0.01	5.57- 5.63
11	B	alpha-Chlordane	0.966	0.884	8.5	102	-0.01	5.79- 5.85
12	A	Endosulfan I	0.957	0.872	8.9	101	-0.02	5.89- 5.95
13	B	4,4'-DDE	0.957	0.894	6.6	101	-0.01	6.06- 6.12
14	MA	Dieldrin	1.014	0.951	6.2	102	-0.02	6.32- 6.38
15	MA	Endrin	0.897	0.855	4.7	104	-0.02	6.83- 6.89
16	A	4,4'-DDD	0.836	0.781	6.6	102	0.00	7.02- 7.08
17	B	Endosulfan II	0.889	0.810	8.9	98	-0.01	7.18- 7.24
18	MA	4,4'-DDT	0.538	0.592	-10.0	106	-0.01	7.55- 7.61
19	B	Endrin Aldehyde	0.640	0.625	2.3	102	-0.02	7.75- 7.81
20	B	Endosulfan Sulfate	0.722	0.684	5.3	101	-0.02	8.22- 8.28
21	A	Methoxychlor	0.304	0.293	3.6	103	-0.01	8.80- 8.86
22		Mirex	0.579	0.562	2.9	107	-0.02	9.11- 9.17
23	B	Endrin Ketone	0.669	0.712	-6.4	114	-0.02	9.19- 9.25
24	SA	Decachlorobiphenyl	0.528	0.565	-7.0	117	0.00	10.83-10.89
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.43- 1.63
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.43- 1.63
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G122529.D 1PST3973.M Tue May 03 13:28:17 2016 RPT1

8.9.7

8

Initial Calibration Summary

Job Number: JC19423 **Sample:** G4G1778-ICC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67836.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report GC4G

Method : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Tue May 03 15:20:09 2016
Response via : Initial Calibration

Calibration Files
2 =4g67833.D 5 =4g67834.D 10 =4g67835.D 25 =4g67836.D
50 =4g67837.D 100 =4g67839.D 1 =4g67832.D 75 =4g67838.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.874	0.852	0.846	0.862	0.858	0.889	0.860	0.854	0.862	1.59
3) alpha-BHC	1.097	1.061	1.094	1.157	1.230	1.321	1.166	1.312	1.180	8.42
4) gamma-BHC	0.955	0.931	0.975	1.022	1.086	1.165	0.960	1.159	1.032	9.08
5) Heptachlor	0.867	0.848	0.880	0.938	1.060	1.151	0.871	1.133	0.968	13.05
6) beta-BHC	0.452	0.450	0.484	0.485	0.524	0.537	0.475	0.547	0.494	7.54
7) delta-BHC	0.866	0.845	0.875	0.904	0.988	1.071	0.917	1.051	0.940	9.20
8) Aldrin	0.916	0.887	0.925	0.971	1.033	1.114	0.953	1.106	0.988	8.78
9) Heptachlor E	0.823	0.784	0.824	0.860	0.931	1.000	0.859	0.982	0.883	8.94
10) gamma-Chlord	0.789	0.793	0.807	0.873	0.941	1.026	0.824	1.007	0.883	10.97
11) alpha-Chlord	0.960	0.876	0.862	0.897	0.952	1.020	1.036	1.008	0.952	7.07
12) Endosulfan I	0.941	0.886	0.899	0.940	0.992	1.056	1.065	1.050	0.979	7.39
13) 4,4'-DDE	0.876	0.782	0.755	0.811	0.886	0.979	1.016	0.954	0.882	10.82
14) Dieldrin	0.799	0.819	0.852	0.923	1.004	1.097	0.853	1.077	0.928	12.65
15) Endrin	0.853	0.769	0.804	0.849	0.923	1.009	0.861	1.000	0.883	9.85
16) 4,4'-DDD	0.689	0.624	0.657	0.729	0.790	0.881	0.747	0.867	0.748	12.49
17) Endosulfan I	0.782	0.750	0.784	0.850	0.910	1.002	0.727	0.995	0.850	12.70
18) 4,4'-DDT	0.360	0.374	0.438	0.520	0.606	0.722	0.369	0.685	0.509	28.81

----- Quadratic regression ----- Coefficient = 0.9995
Response Ratio = -0.01241 + 0.51421 *A + 0.10940 *A^2

19) Endrin Aldeh	0.669	0.627	0.665	0.702	0.755	0.796	0.727	0.800	0.718	8.83
20) Endosulfan S	0.743	0.697	0.731	0.763	0.812	0.863	0.768	0.858	0.779	7.70
21) Methoxychlor	0.287	0.262	0.310	0.337	0.370	0.402	0.302	0.396	0.333	15.53
22) Mirex	0.757	0.744	0.768	0.767	0.781	0.797	0.793	0.808	0.777	2.77
23) Endrin Keton	0.871	0.787	0.839	0.904	0.969	1.026	0.783	1.030	0.901	10.98
24) Decachlorobi	0.832	0.761	0.795	0.807	0.799	0.835	0.833	0.837	0.812	3.31
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.032				0.032	0.00
27) Toxaphene{B}					0.033				0.033	0.00
28) Toxaphene{C}					0.045				0.045	0.00
29) Toxaphene{D}					0.030				0.030	0.00
30) Toxaphene{E}					0.020				0.020	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.028				0.028	0.00
33) Chlordane {B					0.036				0.036	0.00
34) Chlordane {C					0.122				0.122	0.00
35) Chlordane {D					0.199				0.199	0.00
36) Chlordane {E					0.030				0.030	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen ----------ISTD----------

Initial Calibration Summary

Job Number: JC19423 **Sample:** G4G1778-ICC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67836.D
Project: BMSMC, Building 5 Area, PR

2)	Tetrachloro-	0.938	0.839	0.878	0.882	0.874	0.911	0.871	0.851	0.881	3.58
3)	alpha-BHC	1.239	1.156	1.205	1.261	1.307	1.406	1.375	1.349	1.287	6.75
4)	gamma-BHC	1.114	1.064	1.098	1.127	1.168	1.253	1.127	1.203	1.144	5.33
5)	Heptachlor	1.156	1.125	1.139	1.156	1.175	1.251	1.217	1.210	1.179	3.67
6)	beta-BHC	0.529	0.506	0.510	0.508	0.514	0.531	0.532	0.516	0.518	2.12
7)	delta-BHC	1.054	0.990	1.028	1.067	1.105	1.201	0.997	1.100	1.068	6.42
8)	Aldrin	1.213	1.077	1.089	1.113	1.135	1.208	1.287	1.166	1.161	6.17
9)	Heptachlor E	1.092	0.992	1.009	1.012	1.022	1.072	1.151	1.039	1.049	5.06
10)	gamma-Chlord	1.019	0.969	0.988	0.999	1.020	1.082	0.985	1.044	1.013	3.60
11)	alpha-Chlord	1.109	0.964	0.983	0.978	0.984	1.040	1.111	0.972	1.018	6.05
12)	Endosulfan I	1.029	0.936	0.948	0.947	0.961	1.011	0.963	0.978	0.972	3.37
13)	4,4'-DDE	1.001	0.964	0.989	1.003	1.028	1.092	0.991	1.052	1.015	4.00
14)	Dieldrin	0.962	0.946	0.977	1.008	1.037	1.105	1.008	1.064	1.013	5.27
15)	Endrin	0.868	0.859	0.890	0.893	0.918	0.978	0.881	0.940	0.903	4.42
16)	4,4'-DDD	0.831	0.768	0.787	0.808	0.831	0.886	0.797	0.852	0.820	4.64
17)	Endosulfan I	0.893	0.848	0.879	0.880	0.898	0.944	0.890	0.911	0.893	3.09
18)	4,4'-DDT	0.628	0.638	0.680	0.713	0.749	0.825	0.720	0.782	0.717	9.51
19)	Endrin Aldeh	0.672	0.654	0.664	0.671	0.673	0.705	0.724	0.665	0.678	3.46
20)	Endosulfan S	0.773	0.737	0.730	0.728	0.732	0.761	0.778	0.739	0.747	2.71
21)	Methoxychlor	0.413	0.381	0.383	0.378	0.379	0.403	0.389	0.390	0.390	3.21
22)	Mirex	0.661	0.603	0.624	0.598	0.598	0.609	0.723	0.599	0.627	7.09
23)	Endrin Keton	0.801	0.766	0.792	0.806	0.830	0.870	0.850	0.848	0.820	4.27
24)	Decachlorobi	0.672	0.614	0.626	0.613	0.603	0.604	0.661	0.602	0.625	4.39

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.018	0.018	0.00
27)	Toxaphene{B}	0.021	0.021	0.00
28)	Toxaphene{C}	0.036	0.036	0.00
29)	Toxaphene{D}	0.021	0.021	0.00
30)	Toxaphene{E}	0.017	0.017	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.037	0.037	0.00
33)	Chlordane {B	0.035	0.035	0.00
34)	Chlordane {C	0.128	0.128	0.00
35)	Chlordane {D	0.208	0.208	0.00
36)	Chlordane {E	0.033	0.033	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

4PST1778.M Tue May 03 15:34:49 2016 RPT1

8.9.8

Initial Calibration Verification

Job Number: JC19423 **Sample:** G4G1778-ICV1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67842.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1778\4g67842.D\ECD1A.ch  Vial: 13
Signal #2 : C:\msdchem\1\DATA\4G1778\4g67842.D\ECD2B.ch
Acq On    :  2 May 2016   4:57 pm                    Operator: dharas
Sample    : icv1778-25                               Inst    : GC4G
Misc      : op93464,g4g1778,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 03 15:20:09 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.77- 1.83
2	SAB	Tetrachloro-m-xylene	0.862	0.804	6.7	97	0.00	2.56- 2.62
3	A	alpha-BHC	1.180	1.032	12.5	93	0.00	3.13- 3.19
4	MA	gamma-BHC	1.032	0.946	8.3	96	0.00	3.47- 3.53
5	MA	Heptachlor	0.968	0.938	3.1	104	0.00	3.79- 3.85
6	B	beta-BHC	0.494	0.477	3.4	102	0.01	3.58- 3.64
7	B	delta-BHC	0.940	0.845	10.1	97	0.00	4.03- 4.09
8	MB	Aldrin	0.988	0.890	9.9	95	0.00	4.41- 4.47
9	B	Heptachlor Epoxide	0.883	0.810	8.3	98	0.00	5.18- 5.24
10	B	gamma-Chlordane	0.883	0.836	5.3	99	0.00	5.36- 5.42
11	B	alpha-Chlordane	0.952	0.832	12.6	96	0.00	5.54- 5.60
12	A	Endosulfan I	0.979	0.873	10.8	96	0.00	5.72- 5.78
13	B	4,4'-DDE	0.882	0.722	18.1	92	0.00	5.67- 5.73
14	MA	Dieldrin	0.928	0.857	7.7	96	0.00	6.06- 6.12
15	MA	Endrin	0.883	0.810	8.3	99	0.00	6.40- 6.46
16	A	4,4'-DDD	0.748	0.667	10.8	95	0.01	6.55- 6.61
17	B	Endosulfan II	0.850	0.781	8.1	95	0.00	6.74- 6.80
		----------	True	Calc.	% Drift		----------	
18	MA	4,4'-DDT	25.000	21.374	14.5	91	0.00	6.97- 7.03
		----------	AvgRF	CCRF	% Dev		----------	
19	B	Endrin Aldehyde	0.718	0.719	-0.1	106	0.00	7.38- 7.44
20	B	Endosulfan Sulfate	0.779	0.707	9.2	96	0.00	8.07- 8.13
21	A	Methoxychlor	0.333	0.298	10.5	92	0.00	7.79- 7.85
23	B	Endrin Ketone	0.901	0.832	7.7	95	0.00	8.54- 8.60
24	SA	Decachlorobiphenyl	0.812	0.720	11.3	93	0.00	10.22-10.28

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	2.04- 2.10
2	SAB	Tetrachloro-m-xylene	0.881	0.786	10.8	94	0.00	3.08- 3.14
3	A	alpha-BHC	1.287	1.115	13.4	93	0.00	3.84- 3.90
4	MA	gamma-BHC	1.144	1.014	11.4	95	0.00	4.32- 4.38
5	MA	Heptachlor	1.179	1.029	12.7	94	0.00	4.95- 5.01
6	B	beta-BHC	0.518	0.465	10.2	96	0.00	4.42- 4.48
7	B	delta-BHC	1.068	0.975	8.7	96	0.00	4.85- 4.91
8	MB	Aldrin	1.161	0.986	15.1	93	0.00	5.44- 5.50
9	B	Heptachlor Epoxide	1.049	0.921	12.2	96	0.00	6.30- 6.36
10	B	gamma-Chlordane	1.013	0.919	9.3	97	0.00	6.60- 6.66

Initial Calibration Verification

Job Number: JC19423 **Sample:** G4G1778-ICV1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67842.D
Project: BMSMC, Building 5 Area, PR

11	B	alpha-Chlordane	1.018	0.869	14.6	94	0.00	6.83- 6.89
12	A	Endosulfan I	0.972	0.843	13.3	94	0.00	6.94- 7.00
13	B	4,4'-DDE	1.015	0.921	9.3	97	0.00	7.09- 7.15
14	MA	Dieldrin	1.013	0.921	9.1	96	0.00	7.38- 7.44
15	MA	Endrin	0.903	0.837	7.3	99	0.00	7.91- 7.97
16	A	4,4'-DDD	0.820	0.752	8.3	98	0.00	8.07- 8.13
17	B	Endosulfan II	0.893	0.804	10.0	96	0.00	8.26- 8.32
18	MA	4,4'-DDT	0.717	0.632	11.9	93	0.00	8.61- 8.67
19	B	Endrin Aldehyde	0.678	0.620	8.6	97	0.00	8.84- 8.90
20	B	Endosulfan Sulfate	0.747	0.658	11.9	95	0.00	9.32- 9.38
21	A	Methoxychlor	0.390	0.340	12.8	95	0.00	9.82- 9.88
23	B	Endrin Ketone	0.820	0.720	12.2	94	0.00	10.17-10.23
24	SA	Decachlorobiphenyl	0.625	0.593	5.1	102	0.00	11.63-11.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g67836.D 4PST1778.M Tue May 03 15:57:39 2016 RPT1

8.9.9

8

Initial Calibration Verification

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G4G1778-ICV1778
Lab FileID: 4G67843.D

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\msdchem\1\DATA\4G1778\4g67843.D\ECD1A.ch  Vial: 14
 Signal #2 : C:\msdchem\1\DATA\4G1778\4g67843.D\ECD2B.ch
 Acq On    :  2 May 2016   5:12 pm                    Operator: dharas
 Sample    : icv1778-25                               Inst    : GC4G
 Misc      : op93464,g4g1778,100,,,10,1               Multiplr: 1.00
 IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

 Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
 Title        : PEST/PCB
 Last Update  : Tue May 03 15:20:09 2016
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 200%

        Compound                AvgRF   CCRF      %Dev Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 I   1-bromo-2-nitrobenzene   1.000   1.000      0.0  110   0.00    1.77- 1.83
22     Mirex                    0.777   0.802     -3.2  115   0.00    7.97- 8.03

*****  Signal #2   *****

 1 I   1-bromo-2-nitrobenzene   1.000   1.000      0.0  111   0.00    2.05- 2.11
22     Mirex                    0.627   0.642     -2.4  119   0.00   10.13-10.19

---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    4g67836.D  4PST1778.M       Tue May 03 15:57:41 2016   RPT1
```

Initial Calibration Verification

Job Number: JC19423 **Sample:** G4G1778-ICV1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67844.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1778\4g67844.D\ECD1A.ch  Vial: 15
Signal #2 : C:\msdchem\1\DATA\4G1778\4g67844.D\ECD2B.ch
Acq On    :  2 May 2016   5:27 pm                    Operator: dharas
Sample    : icv1778-500                              Inst    : GC4G
Misc      : op93464,g4g1778,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 03 15:20:09 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.70- 1.90
32	Chlordane {A}	0.028	0.033	-17.9	121	0.00	3.86- 4.06
33	Chlordane {B}	0.036	0.036	0.0	103	0.00	4.49- 4.69
34	Chlordane {C}	0.122	0.118	3.3	100	0.00	5.29- 5.49
35	Chlordane {D}	0.199	0.195	2.0	102	0.00	5.46- 5.66
36	Chlordane {E}	0.030	0.025	16.7	87	0.00	6.58- 6.78

***** Signal #2 *****

31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.98- 2.18
32	Chlordane {A}	0.037	0.040	-8.1	112	0.00	4.67- 4.87
33	Chlordane {B}	0.035	0.035	0.0	104	0.00	5.57- 5.77
34	Chlordane {C}	0.128	0.122	4.7	99	0.00	6.53- 6.73
35	Chlordane {D}	0.208	0.201	3.4	100	0.00	6.76- 6.96
36	Chlordane {E}	0.033	0.032	3.0	99	0.00	8.27- 8.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g67837.D 4PST1778.M Tue May 03 15:57:54 2016 RPT1

8.9.11

8

Initial Calibration Verification

Job Number: JC19423 **Sample:** G4G1778-ICV1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67845.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1778\4g67845.D\ECD1A.ch  Vial: 16
Signal #2 : C:\msdchem\1\DATA\4G1778\4g67845.D\ECD2B.ch
Acq On    :  2 May 2016   5:43 pm                    Operator: dharas
Sample    : icv1778-500                              Inst    : GC4G
Misc      : op93464,g4g1778,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 03 15:20:09 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.70- 1.90
26	L8	Toxaphene{A}	0.032	0.031	3.1	95	0.00	6.38- 6.58
27	L8	Toxaphene{B}	0.033	0.032	3.0	98	0.00	6.66- 6.86
28	L8	Toxaphene{C}	0.045	0.044	2.2	99	0.00	6.82- 7.02
29	L8	Toxaphene{D}	0.030	0.030	0.0	100	0.00	7.20- 7.40
30	L8	Toxaphene{E}	0.020	0.020	0.0	100	0.00	7.87- 8.07

***** Signal #2 *****

25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.98- 2.18
26	L8	Toxaphene{A}	0.018	0.018	0.0	105	0.00	7.27- 7.47
27	L8	Toxaphene{B}	0.021	0.023	-9.5	109	0.00	8.16- 8.36
28	L8	Toxaphene{C}	0.036	0.036	0.0	103	0.00	8.33- 8.53
29	L8	Toxaphene{D}	0.021	0.022	-4.8	106	0.00	8.77- 8.97
30	L8	Toxaphene{E}	0.017	0.017	0.0	103	0.00	9.67- 9.87

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 4g67837.D  4PST1778.M       Tue May 03 15:57:56 2016   RPT1
```

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G4G1782-CC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67943.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1782\4g67943.D\ECD1A.ch  Vial: 2
Signal #2 : C:\msdchem\1\DATA\4G1782\4g67943.D\ECD2B.ch
Acq On    :  6 May 2016   7:57 am                    Operator: brittanp
Sample    : cc1778-25                                Inst    : GC4G
Misc      : op93644,g4g1782,15.5,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 06 09:21:19 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	-0.01	1.76- 1.82
2	SAB	Tetrachloro-m-xylene	0.862	0.861	0.1	101	-0.01	2.55- 2.61
3	A	alpha-BHC	1.180	1.173	0.6	102	0.00	3.12- 3.18
4	MA	gamma-BHC	1.032	1.014	1.7	100	0.00	3.46- 3.52
5	MA	Heptachlor	0.968	1.021	-5.5	110	0.00	3.78- 3.84
6	B	beta-BHC	0.494	0.530	-7.3	110	0.00	3.57- 3.63
7	B	delta-BHC	0.940	1.019	-8.4	113	-0.01	4.03- 4.09
8	MB	Aldrin	0.988	0.972	1.6	101	0.00	4.40- 4.46
9	B	Heptachlor Epoxide	0.883	0.846	4.2	99	-0.01	5.16- 5.22
10	B	gamma-Chlordane	0.883	0.848	4.0	98	-0.01	5.35- 5.41
11	B	alpha-Chlordane	0.952	0.891	6.4	100	-0.01	5.53- 5.59
12	A	Endosulfan I	0.979	0.959	2.0	103	-0.01	5.71- 5.77
13	B	4,4'-DDE	0.882	0.790	10.4	98	0.00	5.65- 5.71
14	MA	Dieldrin	0.928	0.921	0.8	100	-0.01	6.05- 6.11
15	MA	Endrin	0.883	0.864	2.2	102	-0.01	6.39- 6.45
16	A	4,4'-DDD	0.748	0.658	12.0	91	0.00	6.53- 6.59
17	B	Endosulfan II	0.850	0.847	0.4	100	-0.01	6.73- 6.79
		----------	True	Calc.	% Drift		----------	
18	MA	4,4'-DDT	25.000	28.149	-12.6	121	-0.01	6.96- 7.02
		----------	AvgRF	CCRF	% Dev		----------	
19	B	Endrin Aldehyde	0.718	0.716	0.3	103	-0.02	7.36- 7.42
20	B	Endosulfan Sulfate	0.779	0.825	-5.9	109	-0.02	8.05- 8.11
21	A	Methoxychlor	0.333	0.393	-18.0	117	-0.01	7.77- 7.83
22		Mirex	0.777	0.794	-2.2	104	-0.02	7.95- 8.01
23	B	Endrin Ketone	0.901	0.965	-7.1	107	-0.02	8.52- 8.58
24	SA	Decachlorobiphenyl	0.812	0.899	-10.7	112	-0.01	10.21-10.27

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	2.04- 2.10
2	SAB	Tetrachloro-m-xylene	0.881	0.883	-0.2	103	0.00	3.08- 3.14
3	A	alpha-BHC	1.287	1.233	4.2	101	0.00	3.84- 3.90
4	MA	gamma-BHC	1.144	1.105	3.4	101	0.00	4.31- 4.37
5	MA	Heptachlor	1.179	1.175	0.3	105	-0.01	4.94- 5.00
6	B	beta-BHC	0.518	0.495	4.4	101	0.00	4.41- 4.47
7	B	delta-BHC	1.068	1.084	-1.5	105	-0.01	4.84- 4.90
8	MB	Aldrin	1.161	1.102	5.1	102	-0.01	5.42- 5.48

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G4G1782-CC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67943.D
Project: BMSMC, Building 5 Area, PR

9	B	Heptachlor Epoxide	1.049	0.994	5.2	102	-0.01	6.29- 6.35
10	B	gamma-Chlordane	1.013	0.990	2.3	102	-0.01	6.58- 6.64
11	B	alpha-Chlordane	1.018	0.966	5.1	102	-0.01	6.82- 6.88
12	A	Endosulfan I	0.972	0.936	3.7	102	-0.01	6.92- 6.98
13	B	4,4'-DDE	1.015	0.993	2.2	102	-0.02	7.07- 7.13
14	MA	Dieldrin	1.013	1.002	1.1	103	-0.02	7.37- 7.43
15	MA	Endrin	0.903	0.908	-0.6	105	-0.02	7.89- 7.95
16	A	4,4'-DDD	0.820	0.785	4.3	100	-0.02	8.05- 8.11
17	B	Endosulfan II	0.893	0.874	2.1	103	-0.02	8.25- 8.31
18	MA	4,4'-DDT	0.717	0.781	-8.9	113	-0.02	8.59- 8.65
19	B	Endrin Aldehyde	0.678	0.667	1.6	103	-0.02	8.82- 8.88
20	B	Endosulfan Sulfate	0.747	0.768	-2.8	109	-0.02	9.30- 9.36
21	A	Methoxychlor	0.390	0.414	-6.2	113	-0.01	9.80- 9.86
22		Mirex	0.627	0.627	0.0	108	-0.01	10.12-10.18
23	B	Endrin Ketone	0.820	0.856	-4.4	110	-0.01	10.16-10.22
24	SA	Decachlorobiphenyl	0.625	0.626	-0.2	106	-0.01	11.61-11.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g67836.D 4PST1778.M Fri May 06 09:44:40 2016 RPT1

8.9.13

8

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G4G1782-CC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67973.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1782\4g67973.D\ECD1A.ch  Vial: 4
Signal #2 : C:\msdchem\1\DATA\4G1782\4g67973.D\ECD2B.ch
Acq On    :  6 May 2016   2:57 pm                    Operator: dharas
Sample    : cc1778-50                                Inst    : GC4G
Misc      : op93657,g4g1782,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 06 15:02:23 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.03	1.79- 1.85
2	SAB	Tetrachloro-m-xylene	0.862	0.987	-14.5	114	0.02	2.56- 2.62
3	A	alpha-BHC	1.180	1.283	-8.7	103	0.00	3.13- 3.19
4	MA	gamma-BHC	1.032	1.124	-8.9	102	0.00	3.47- 3.53
5	MA	Heptachlor	0.968	1.118	-15.5	104	0.01	3.79- 3.85
6	B	beta-BHC	0.494	0.542	-9.7	102	0.01	3.58- 3.64
7	B	delta-BHC	0.940	0.980	-4.3	98	0.00	4.03- 4.09
8	MB	Aldrin	0.988	1.072	-8.5	103	0.00	4.40- 4.46
9	B	Heptachlor Epoxide	0.883	0.950	-7.6	101	0.00	5.17- 5.23
10	B	gamma-Chlordane	0.883	0.959	-8.6	101	0.00	5.35- 5.41
11	B	alpha-Chlordane	0.952	0.983	-3.3	102	0.00	5.53- 5.59
12	A	Endosulfan I	0.979	1.065	-8.8	106	0.00	5.71- 5.77
13	B	4,4'-DDE	0.882	0.886	-0.5	99	0.00	5.66- 5.72
14	MA	Dieldrin	0.928	1.056	-13.8	104	0.00	6.05- 6.11
15	MA	Endrin	0.883	1.000	-13.3	107	0.00	6.39- 6.45
16	A	4,4'-DDD	0.748	0.840	-12.3	105	0.00	6.54- 6.60
17	B	Endosulfan II	0.850	1.016	-19.5	110	0.00	6.73- 6.79
		----------	True	Calc.	% Drift	----------		
18	MA	4,4'-DDT	50.000	43.374	13.3	84	0.00	6.96- 7.02
		----------	AvgRF	CCRF	% Dev	----------		
19	B	Endrin Aldehyde	0.718	0.806	-12.3	106	0.00	7.37- 7.43
20	B	Endosulfan Sulfate	0.779	0.926	-18.9	113	0.00	8.06- 8.12
21	A	Methoxychlor	0.333	0.345	-3.6	93	0.00	7.78- 7.84
22		Mirex	0.777	0.847	-9.0	107	0.00	7.95- 8.01
23	B	Endrin Ketone	0.901	1.022	-13.4	104	0.00	8.52- 8.58
24	SA	Decachlorobiphenyl	0.812	0.941	-15.9	117	0.00	10.21-10.27
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.03	1.72- 1.92
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.03	1.72- 1.92
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				

8.9.14

8

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G4G1782-CC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67973.D
Project: BMSMC, Building 5 Area, PR

36		Chlordane {E}			----------NA----------			
*****		Signal #2 *****						
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.02	2.06- 2.12
2	SAB	Tetrachloro-m-xylene	0.881	0.910	-3.3	103	0.00	3.08- 3.14
3	A	alpha-BHC	1.287	1.356	-5.4	103	0.00	3.84- 3.90
4	MA	gamma-BHC	1.144	1.214	-6.1	103	0.00	4.32- 4.38
5	MA	Heptachlor	1.179	1.228	-4.2	104	0.00	4.94- 5.00
6	B	beta-BHC	0.518	0.536	-3.5	104	0.00	4.41- 4.47
7	B	delta-BHC	1.068	1.186	-11.0	107	0.00	4.84- 4.90
8	MB	Aldrin	1.161	1.181	-1.7	103	0.00	5.43- 5.49
9	B	Heptachlor Epoxide	1.049	1.060	-1.0	103	0.00	6.29- 6.35
10	B	gamma-Chlordane	1.013	1.063	-4.9	104	0.00	6.59- 6.65
11	B	alpha-Chlordane	1.018	1.031	-1.3	104	0.00	6.82- 6.88
12	A	Endosulfan I	0.972	1.012	-4.1	105	0.00	6.92- 6.98
13	B	4,4'-DDE	1.015	1.085	-6.9	105	0.00	7.08- 7.14
14	MA	Dieldrin	1.013	1.092	-7.8	105	0.00	7.37- 7.43
15	MA	Endrin	0.903	0.995	-10.2	108	0.00	7.89- 7.95
16	A	4,4'-DDD	0.820	0.868	-5.9	104	0.00	8.05- 8.11
17	B	Endosulfan II	0.893	0.950	-6.4	105	0.00	8.25- 8.31
18	MA	4,4'-DDT	0.717	0.811	-13.1	108	0.00	8.59- 8.65
19	B	Endrin Aldehyde	0.678	0.718	-5.9	106	0.00	8.83- 8.89
20	B	Endosulfan Sulfate	0.747	0.811	-8.6	110	0.00	9.30- 9.36
21	A	Methoxychlor	0.390	0.419	-7.4	110	0.00	9.80- 9.86
22		Mirex	0.627	0.649	-3.5	108	0.00	10.12-10.18
23	B	Endrin Ketone	0.820	0.911	-11.1	109	0.00	10.16-10.22
24	SA	Decachlorobiphenyl	0.625	0.660	-5.6	109	0.00	11.61-11.67
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.02	1.99- 2.19
26	L8	Toxaphene{A}			----------NA----------			
27	L8	Toxaphene{B}			----------NA----------			
28	L8	Toxaphene{C}			----------NA----------			
29	L8	Toxaphene{D}			----------NA----------			
30	L8	Toxaphene{E}			----------NA----------			
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.02	1.99- 2.19
32		Chlordane {A}			----------NA----------			
33		Chlordane {B}			----------NA----------			
34		Chlordane {C}			----------NA----------			
35		Chlordane {D}			----------NA----------			
36		Chlordane {E}			----------NA----------			

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g67837.D 4PST1778.M Fri May 06 18:21:55 2016 RPT1

8.9.14

8

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G4G1782-CC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67994.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1782\4g67994.D\ECD1A.ch  Vial: 2
Signal #2 : C:\msdchem\1\DATA\4G1782\4g67994.D\ECD2B.ch
Acq On    :  6 May 2016   8:15 pm                    Operator: dharas
Sample    : cc1778-25                                Inst    : GC4G
Misc      : op93657,g4g1782,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Sat May 07 16:37:23 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.78- 1.84
2	SAB	Tetrachloro-m-xylene	0.862	0.851	1.3	105	0.00	2.57- 2.63
3	A	alpha-BHC	1.180	1.135	3.8	104	0.00	3.13- 3.19
4	MA	gamma-BHC	1.032	0.997	3.4	104	0.00	3.48- 3.54
5	MA	Heptachlor	0.968	0.884	8.7	100	0.00	3.82- 3.88
6	B	beta-BHC	0.494	0.439	11.1	96	0.00	3.60- 3.66
7	B	delta-BHC	0.940	0.925	1.6	109	0.00	4.03- 4.09
8	MB	Aldrin	0.988	0.996	-0.8	109	0.00	4.40- 4.46
9	B	Heptachlor Epoxide	0.883	0.937	-6.1	116	0.00	5.17- 5.23
10	B	gamma-Chlordane	0.883	0.945	-7.0	115	0.00	5.35- 5.41
11	B	alpha-Chlordane	0.952	0.942	1.1	111	0.00	5.53- 5.59
12	A	Endosulfan I	0.979	1.252	-27.9#	141	0.00	5.71- 5.77
13	B	4,4'-DDE	0.882	0.487	44.8#	64	0.00	5.69- 5.75
14	MA	Dieldrin	0.928	0.968	-4.3	111	0.00	6.05- 6.11
15	MA	Endrin	0.883	0.784	11.2	98	0.00	6.39- 6.45
16	A	4,4'-DDD	0.748	0.670	10.4	98	0.00	6.57- 6.63
17	B	Endosulfan II	0.850	1.017	-19.6	127	0.00	6.74- 6.80
		----------	True	Calc.	% Drift		----------	
18	MA	4,4'-DDT	25.000	20.058	19.8	86	0.00	6.98- 7.04
		----------	AvgRF	CCRF	% Dev		----------	
19	B	Endrin Aldehyde	0.718	0.805	-12.1	122	0.00	7.37- 7.43
20	B	Endosulfan Sulfate	0.779	0.798	-2.4	111	0.00	8.07- 8.13
21	A	Methoxychlor	0.333	0.241	27.6#	76	0.00	7.80- 7.86
22		Mirex	0.777	0.844	-8.6	117	0.00	7.96- 8.02
23	B	Endrin Ketone	0.901	0.966	-7.2	113	0.00	8.53- 8.59
24	SA	Decachlorobiphenyl	0.812	0.759	6.5	100	0.00	10.22-10.28

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	2.04- 2.10
2	SAB	Tetrachloro-m-xylene	0.881	0.872	1.0	106	0.00	3.07- 3.13
3	A	alpha-BHC	1.287	1.249	3.0	106	0.00	3.84- 3.90
4	MA	gamma-BHC	1.144	1.137	0.6	108	0.00	4.31- 4.37
5	MA	Heptachlor	1.179	1.117	5.3	103	0.00	4.94- 5.00
6	B	beta-BHC	0.518	0.539	-4.1	113	0.00	4.41- 4.47
7	B	delta-BHC	1.068	1.073	-0.5	107	0.00	4.84- 4.90
8	MB	Aldrin	1.161	1.128	2.8	108	0.00	5.43- 5.49

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G4G1782-CC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67994.D
Project: BMSMC, Building 5 Area, PR

9	B	Heptachlor Epoxide	1.049	1.042	0.7	110	0.00	6.29- 6.35
10	B	gamma-Chlordane	1.013	1.040	-2.7	111	0.00	6.58- 6.64
11	B	alpha-Chlordane	1.018	1.011	0.7	110	0.00	6.82- 6.88
12	A	Endosulfan I	0.972	0.985	-1.3	111	0.00	6.92- 6.98
13	B	4,4'-DDE	1.015	1.052	-3.6	112	0.00	7.08- 7.14
14	MA	Dieldrin	1.013	1.056	-4.2	112	0.00	7.37- 7.43
15	MA	Endrin	0.903	0.825	8.6	99	0.00	7.89- 7.95
16	A	4,4'-DDD	0.820	0.837	-2.1	110	0.00	8.05- 8.11
17	B	Endosulfan II	0.893	0.930	-4.1	113	0.00	8.25- 8.31
18	MA	4,4'-DDT	0.717	0.663	7.5	99	0.00	8.59- 8.65
19	B	Endrin Aldehyde	0.678	0.748	-10.3	119	0.00	8.83- 8.89
20	B	Endosulfan Sulfate	0.747	0.751	-0.5	110	0.00	9.30- 9.36
21	A	Methoxychlor	0.390	0.335	14.1	94	0.00	9.81- 9.87
22		Mirex	0.627	0.656	-4.6	117	0.00	10.12-10.18
23	B	Endrin Ketone	0.820	0.873	-6.5	116	0.00	10.16-10.22
24	SA	Decachlorobiphenyl	0.625	0.598	4.3	104	0.00	11.61-11.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g67836.D 4PST1778.M Sat May 07 16:56:14 2016 RPT1

8.9.15

8

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G4G1783-CC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68010.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1783\4g68010.D\ECD1A.ch  Vial: 4
Signal #2 : C:\msdchem\1\DATA\4G1783\4g68010.D\ECD2B.ch
Acq On    :  7 May 2016   3:13 pm                    Operator: brittanp
Sample    : cc1778-50                                Inst    : GC4G
Misc      : op93683,g4g1783,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Sat May 07 16:37:23 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	-0.02	1.75- 1.81
2	SAB	Tetrachloro-m-xylene	0.862	0.852	1.2	104	-0.02	2.54- 2.60
3	A	alpha-BHC	1.180	1.240	-5.1	106	-0.02	3.11- 3.17
4	MA	gamma-BHC	1.032	1.049	-1.6	101	-0.01	3.46- 3.52
5	MA	Heptachlor	0.968	1.062	-9.7	105	0.00	3.78- 3.84
6	B	beta-BHC	0.494	0.521	-5.5	104	-0.01	3.56- 3.62
7	B	delta-BHC	0.940	1.045	-11.2	111	-0.02	4.02- 4.08
8	MB	Aldrin	0.988	1.027	-3.9	104	-0.02	4.39- 4.45
9	B	Heptachlor Epoxide	0.883	0.895	-1.4	101	-0.02	5.16- 5.22
10	B	gamma-Chlordane	0.883	0.911	-3.2	102	-0.02	5.34- 5.40
11	B	alpha-Chlordane	0.952	0.939	1.4	104	-0.02	5.52- 5.58
12	A	Endosulfan I	0.979	1.054	-7.7	112	-0.01	5.71- 5.77
13	B	4,4'-DDE	0.882	0.818	7.3	97	0.00	5.65- 5.71
14	MA	Dieldrin	0.928	1.012	-9.1	106	-0.02	6.05- 6.11
15	MA	Endrin	0.883	0.951	-7.7	108	-0.02	6.38- 6.44
16	A	4,4'-DDD	0.748	0.778	-4.0	103	0.00	6.54- 6.60
17	B	Endosulfan II	0.850	0.990	-16.5	114	-0.01	6.72- 6.78
		----------	True	Calc.	% Drift	----------		
18	MA	4,4'-DDT	50.000	55.984	-12.0	121	0.00	6.96- 7.02
		----------	AvgRF	CCRF	% Dev	----------		
19	B	Endrin Aldehyde	0.718	0.775	-7.9	108	-0.01	7.36- 7.42
20	B	Endosulfan Sulfate	0.779	0.893	-14.6	115	-0.01	8.05- 8.11
21	A	Methoxychlor	0.333	0.403	-21.0#	115	0.00	7.77- 7.83
22		Mirex	0.777	0.824	-6.0	111	-0.02	7.95- 8.01
23	B	Endrin Ketone	0.901	1.033	-14.7	112	-0.01	8.52- 8.58
24	SA	Decachlorobiphenyl	0.812	0.905	-11.5	119	-0.01	10.21-10.27

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	-0.02	2.02- 2.08
2	SAB	Tetrachloro-m-xylene	0.881	0.914	-3.7	107	-0.02	3.06- 3.12
3	A	alpha-BHC	1.287	1.345	-4.5	105	-0.02	3.83- 3.89
4	MA	gamma-BHC	1.144	1.200	-4.9	105	-0.01	4.31- 4.37
5	MA	Heptachlor	1.179	1.248	-5.9	108	-0.02	4.93- 4.99
6	B	beta-BHC	0.518	0.531	-2.5	105	-0.01	4.40- 4.46
7	B	delta-BHC	1.068	1.187	-11.1	110	-0.01	4.83- 4.89
8	MB	Aldrin	1.161	1.181	-1.7	106	-0.02	5.42- 5.48

Continuing Calibration Summary

Job Number: JC19423 **Sample:** G4G1783-CC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68010.D
Project: BMSMC, Building 5 Area, PR

9	B	Heptachlor Epoxide	1.049	1.048	0.1	105	-0.02	6.28- 6.34
10	B	gamma-Chlordane	1.013	1.062	-4.8	106	-0.02	6.58- 6.64
11	B	alpha-Chlordane	1.018	1.030	-1.2	107	-0.02	6.81- 6.87
12	A	Endosulfan I	0.972	1.008	-3.7	107	-0.02	6.92- 6.98
13	B	4,4'-DDE	1.015	1.077	-6.1	107	-0.02	7.07- 7.13
14	MA	Dieldrin	1.013	1.092	-7.8	107	-0.02	7.37- 7.43
15	MA	Endrin	0.903	0.988	-9.4	110	-0.02	7.89- 7.95
16	A	4,4'-DDD	0.820	0.862	-5.1	106	-0.02	8.05- 8.11
17	B	Endosulfan II	0.893	0.949	-6.3	108	-0.02	8.24- 8.30
18	MA	4,4'-DDT	0.717	0.871	-21.5#	119	-0.02	8.59- 8.65
19	B	Endrin Aldehyde	0.678	0.722	-6.5	109	-0.02	8.82- 8.88
20	B	Endosulfan Sulfate	0.747	0.823	-10.2	115	-0.02	9.30- 9.36
21	A	Methoxychlor	0.390	0.441	-13.1	119	-0.01	9.80- 9.86
22		Mirex	0.627	0.657	-4.8	112	-0.02	10.11-10.17
23	B	Endrin Ketone	0.820	0.921	-12.3	113	-0.01	10.16-10.22
24	SA	Decachlorobiphenyl	0.625	0.656	-5.0	111	-0.02	11.61-11.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g67837.D 4PST1778.M Mon May 09 09:15:19 2016 RPT1

8.9.16

8

GC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/16 07:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g68004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 10:47 pm
Operator : dharas
Sample : jc19423-1
Misc : op93683,g4g1782,16.6,,,10,1
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:53:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.792	2.067	374.5E6	395.0E6	50.000	50.000
25) I	1-bromo-2...	1.792	2.067	374.5E6	395.0E6	50.000	50.000
31) I	1-bromo-2...	1.792	2.067	374.5E6	395.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.583	3.106	281.5E6	258.9E6	43.591	37.224
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 108.98%	93.06%
24) SA	Decachlor...	10.241	11.644	260.7E6	189.7E6	42.847m	38.459m
	Spiked Amount	40.000			Recovery	= 107.12%	96.15%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

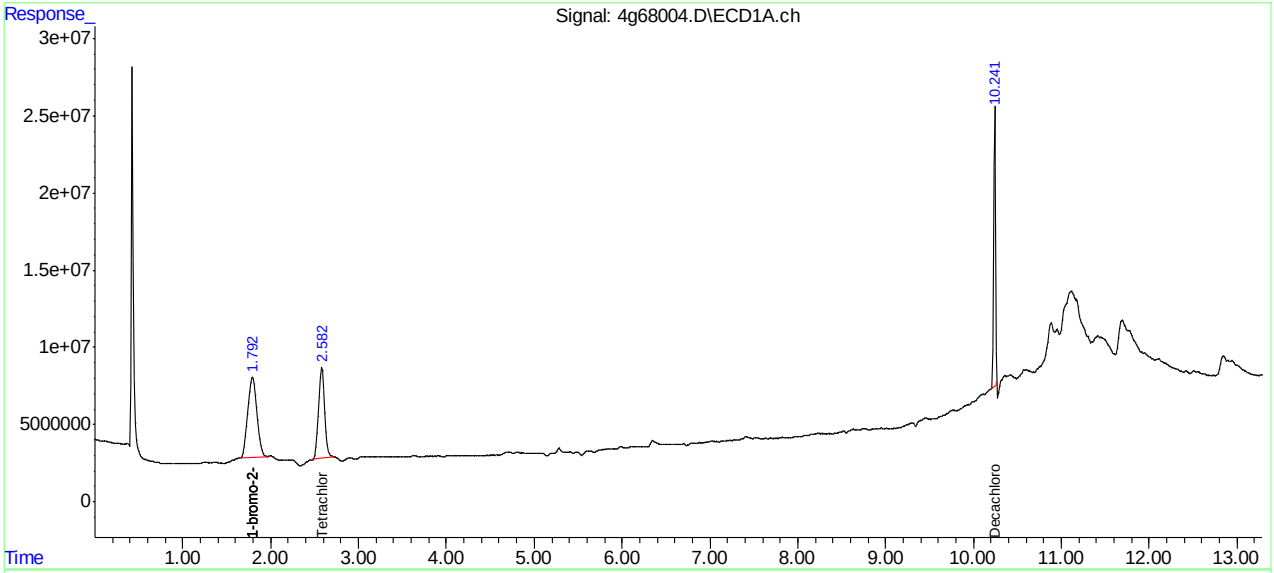
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

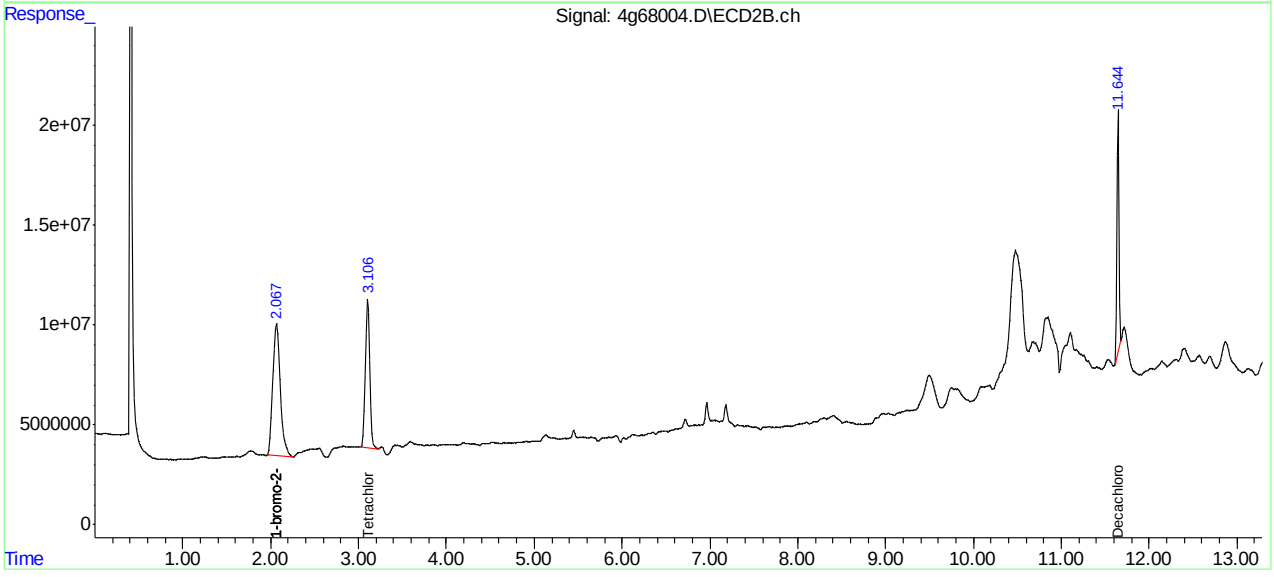
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g68004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 10:47 pm
Operator : dharas
Sample : jc19423-1
Misc : op93683,g4g1782,16.6,,,10,1
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:53:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	JC19423-1	**Method:**	SW846 8081B
Lab FileID:	4G68004.D	**Analyst approved:**	05/07/16 18:02 Brittany Piercy
Injection Time:	05/06/16 22:47	**Supervisor approved:**	05/09/16 07:19 Gwendolyn Burns

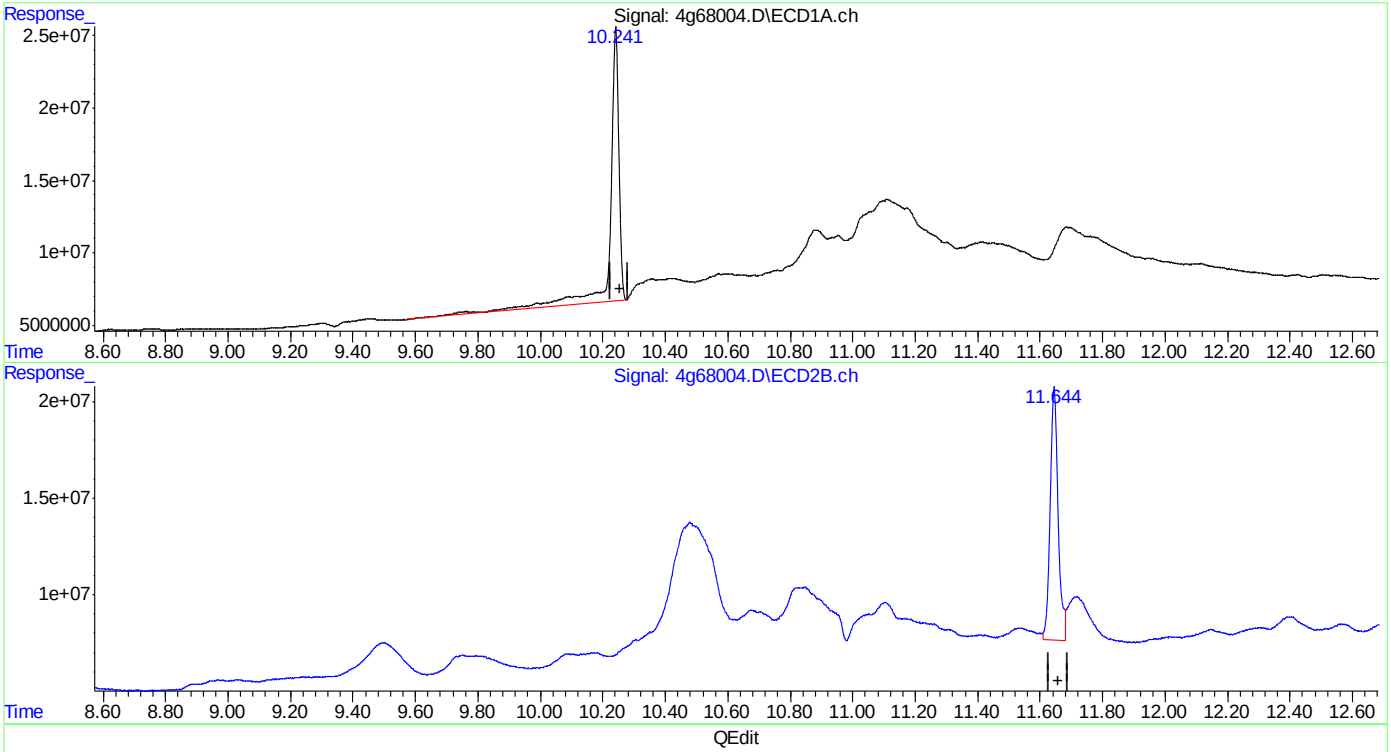
Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	1	10.24	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	11.64	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g68004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 10:47 pm
Operator : dharas
Sample : jc19423-1
Misc : op93683,g4g1782,16.6,,,10,1
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:52:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.241min 62.755 PPB
response 381897508

(24) Decachlorobiphenyl #2 (SA)
11.645min 47.225 PPB
response 232978731

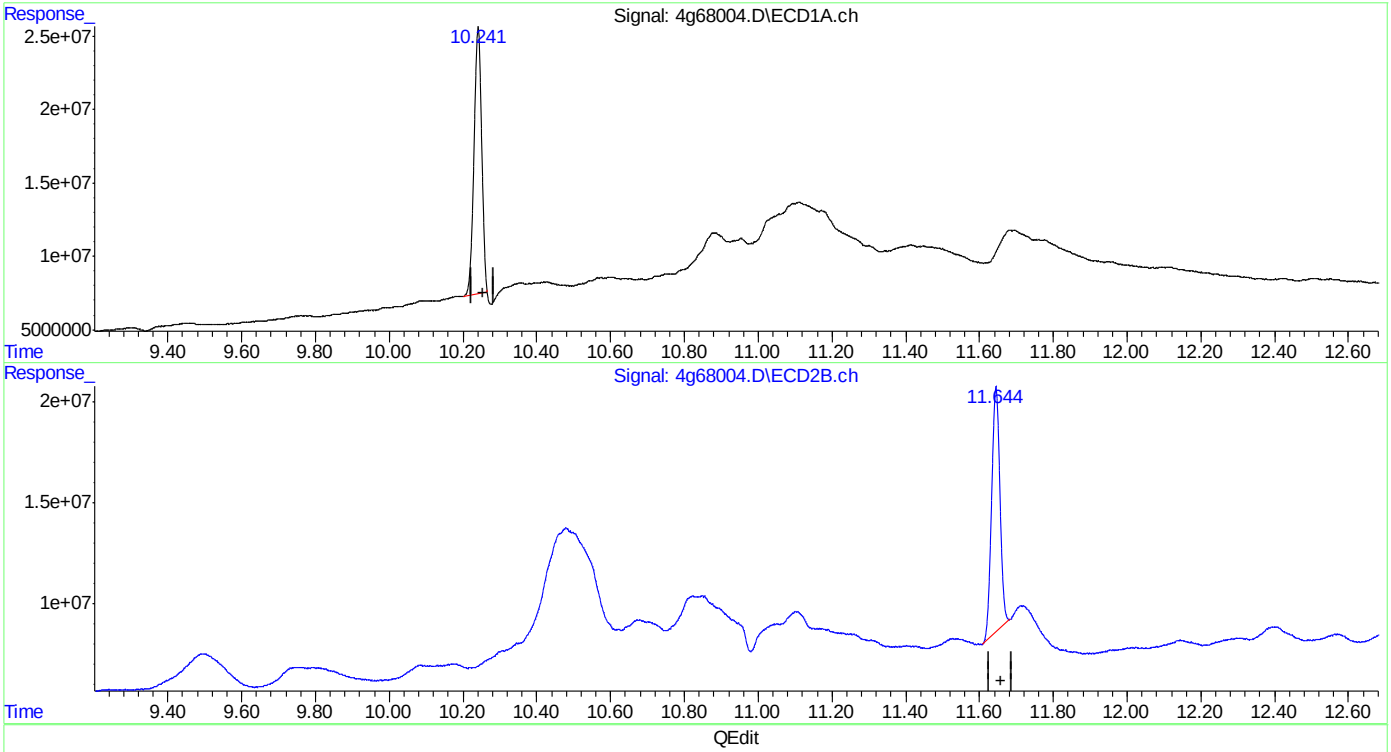
(+) = Expected Retention Time
4PST1778.M Sat May 07 17:53:22 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g68004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 10:47 pm
Operator : dharas
Sample : jc19423-1
Misc : op93683,g4g1782,16.6,,,10,1
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:52:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.241min 42.847 PPB m
response 260746361

(24) Decachlorobiphenyl #2 (SA)
11.644min 38.459 PPB m
response 189735123

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/03/16 13:15

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122666.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122666.D\ECD2B.CH
Acq On    : 5-2-16 05:49:05 PM                      Operator: dharas
Sample    : jc19423-2                               Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:38 2016  Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.16	1.53	95095667	1237.3E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.16	1.53	95095667	1237.3E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.16	1.53	95095667	1237.3E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.74	2.37	91559053	914.7E6	45.949m	40.875
Spiked Amount 40.000	Range 30 - 150		Recovery =		114.87%	102.19%
24) SA Decachlorobiphen	8.93	10.86	138.0E6	649.7E6	39.220	49.767
Spiked Amount 40.000			Recovery =		98.05%	124.42%
Target Compounds						

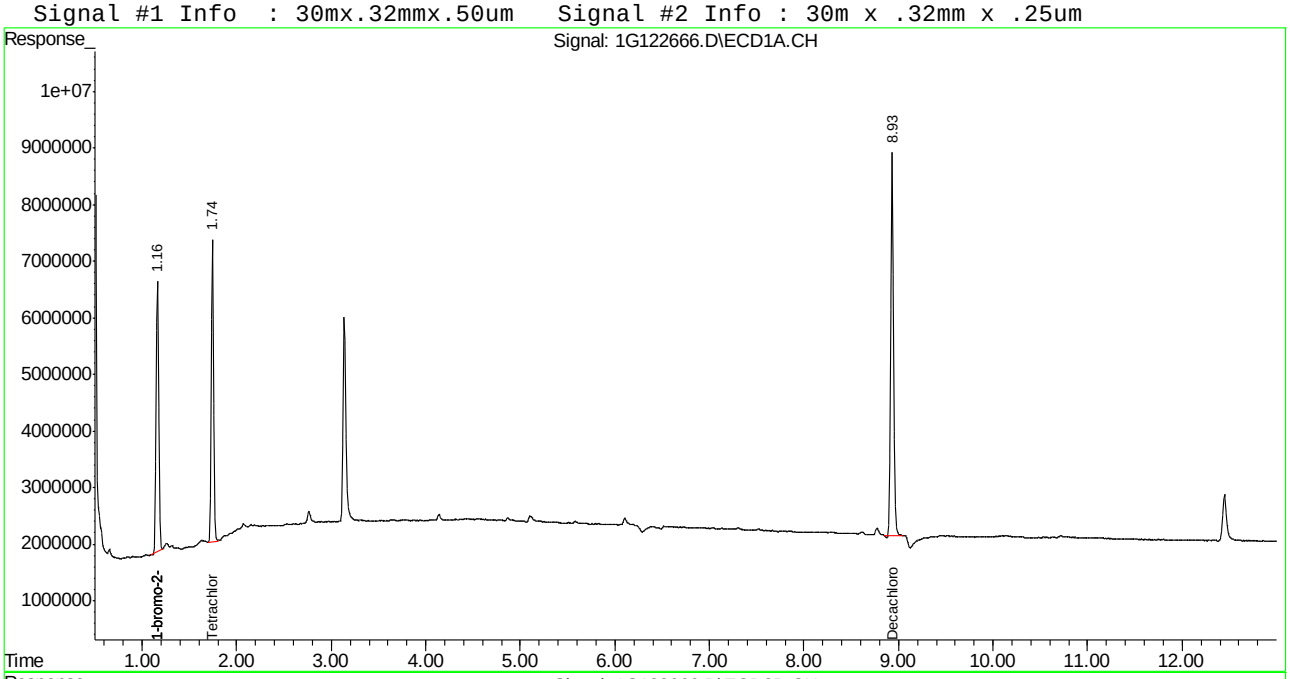
(f)=RT Delta > 1/2 Window (m)=manual int.

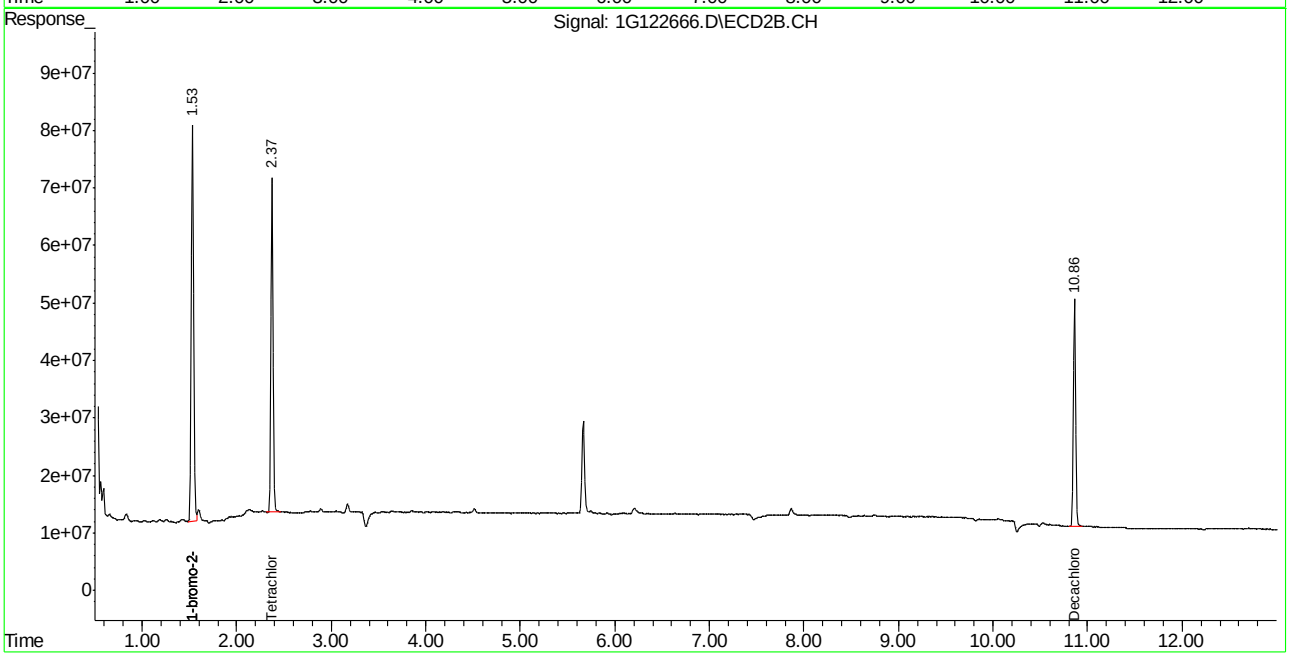
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122666.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122666.D\ECD2B.CH
Acq On : 5-2-16 05:49:05 PM Operator: dharas
Sample : jc19423-2 Inst : GC1G
Misc : op93549,g1g3977,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 12:38 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

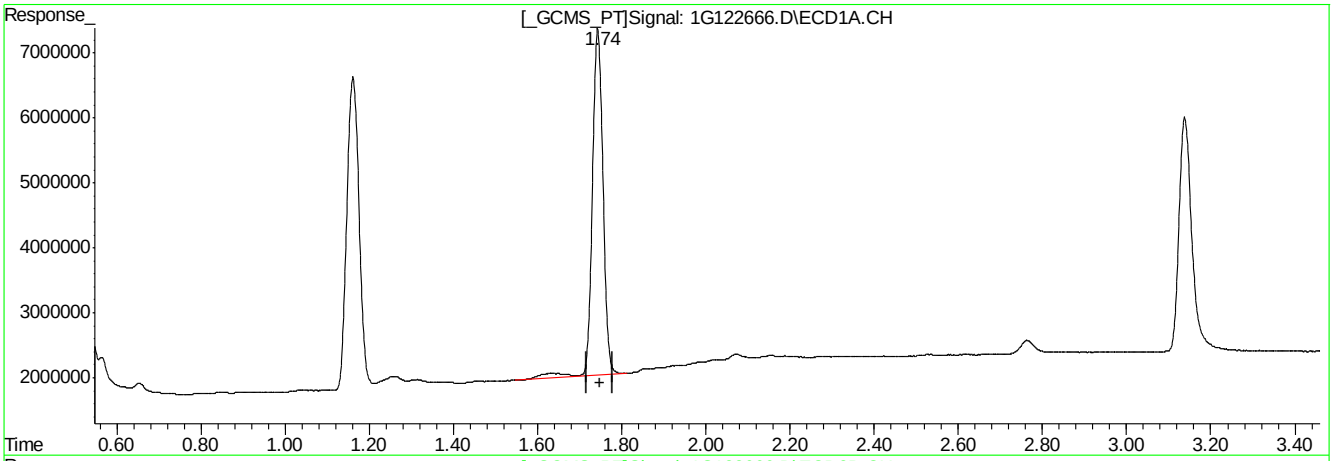
Sample Number:	JC19423-2	**Method:**	SW846 8081B
Lab FileID:	1G122666.D	**Analyst approved:**	05/03/16 12:39 Dhara Saparia
Injection Time:	05/02/16 17:49	**Supervisor approved:**	05/03/16 13:15 Gwendolyn Burns

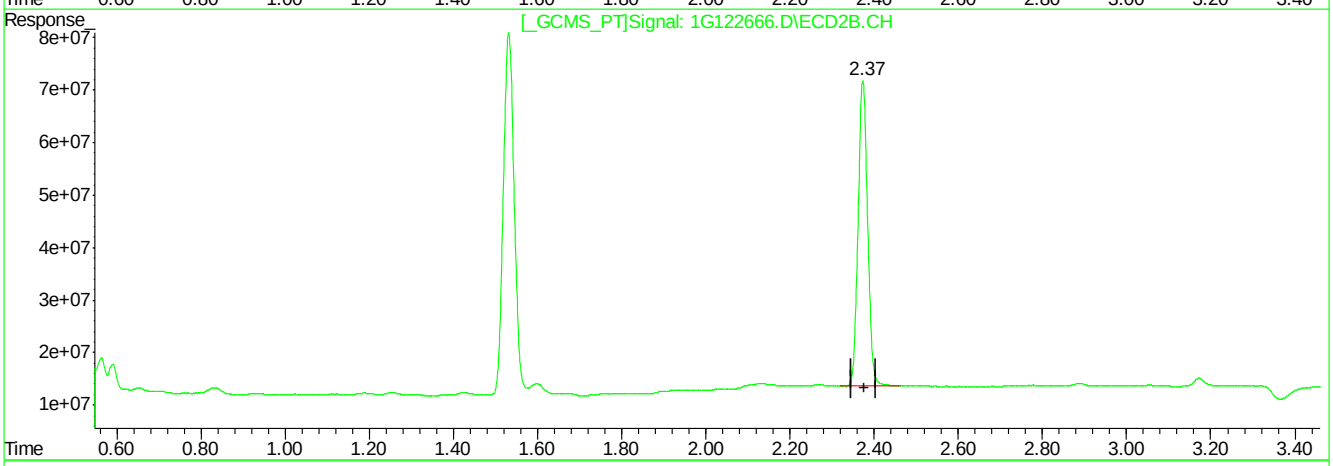
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.74	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122666.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122666.D\ECD2B.CH
Acq On    : 5-2-16 05:49:05 PM                      Operator: dharas
Sample    : jc19423-2                               Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:36 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.74min 47.592PPB

response 94833365

(2) Tetrachloro-m-xylene #2 (SAB)

2.37min 40.875PPB

response 914742434

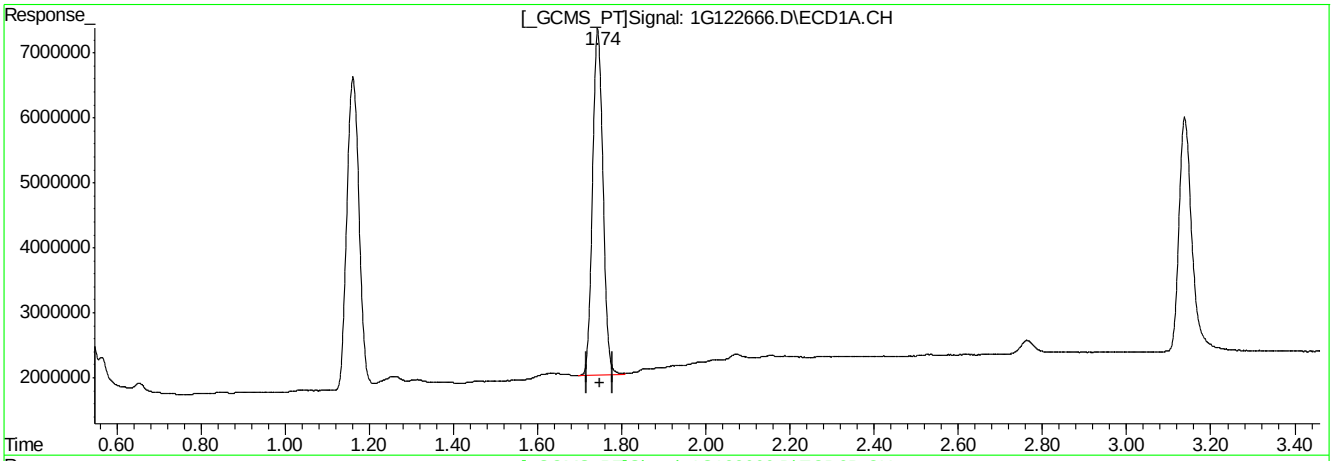
(+) = Expected Retention Time

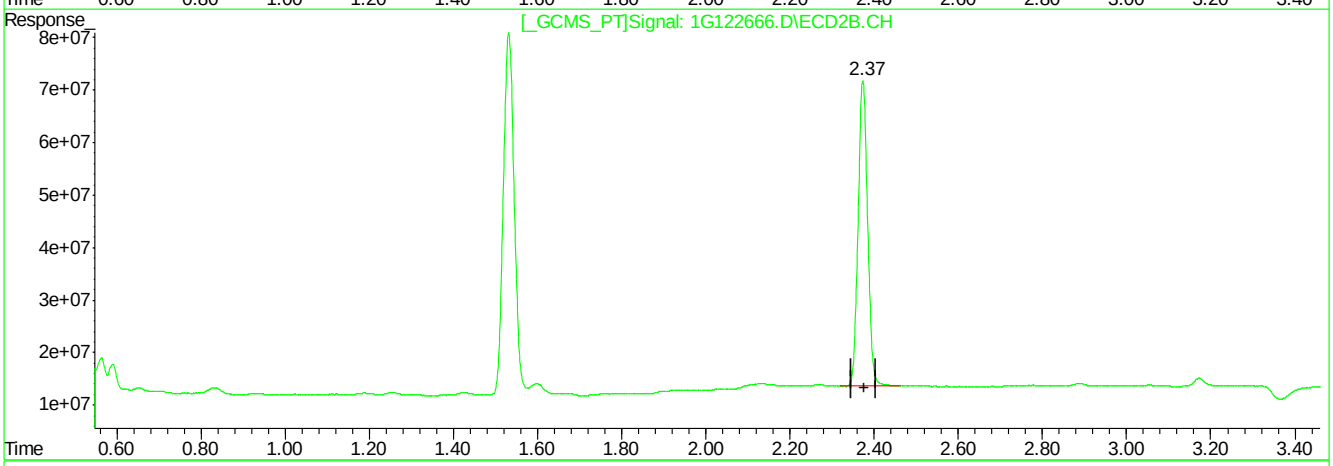
1G122666.D 1PST3973.M Tue May 03 12:38:04 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122666.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122666.D\ECD2B.CH
Acq On    : 5-2-16 05:49:05 PM                      Operator: dharas
Sample    : jc19423-2                               Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:36 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.74min 45.949PPB m

response 91559053

(2) Tetrachloro-m-xylene #2 (SAB)

2.37min 40.875PPB

response 914742434

(+) = Expected Retention Time

1G122666.D 1PST3973.M Tue May 03 12:38:10 2016 RPT1

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122662.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122662.D\ECD2B.CH
Acq On    : 5-2-16 04:38:50 PM                      Operator: dharas
Sample    : op93549-mb1                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:33 2016  Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.16	1.53	80771141	1051.2E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.16	1.53	80771141	1051.2E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.16	1.53	80771141	1051.2E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.74	2.37	64833792	648.9E6	38.307	34.132
Spiked Amount 40.000	Range 30 - 150		Recovery =		95.77%	85.33%
24) SA Decachlorobiphen	8.93	10.86	99652714	470.9E6	33.346	42.461
Spiked Amount 40.000			Recovery =		83.36%	106.15%
Target Compounds						

(f)=RT Delta > 1/2 Window (m)=manual int.

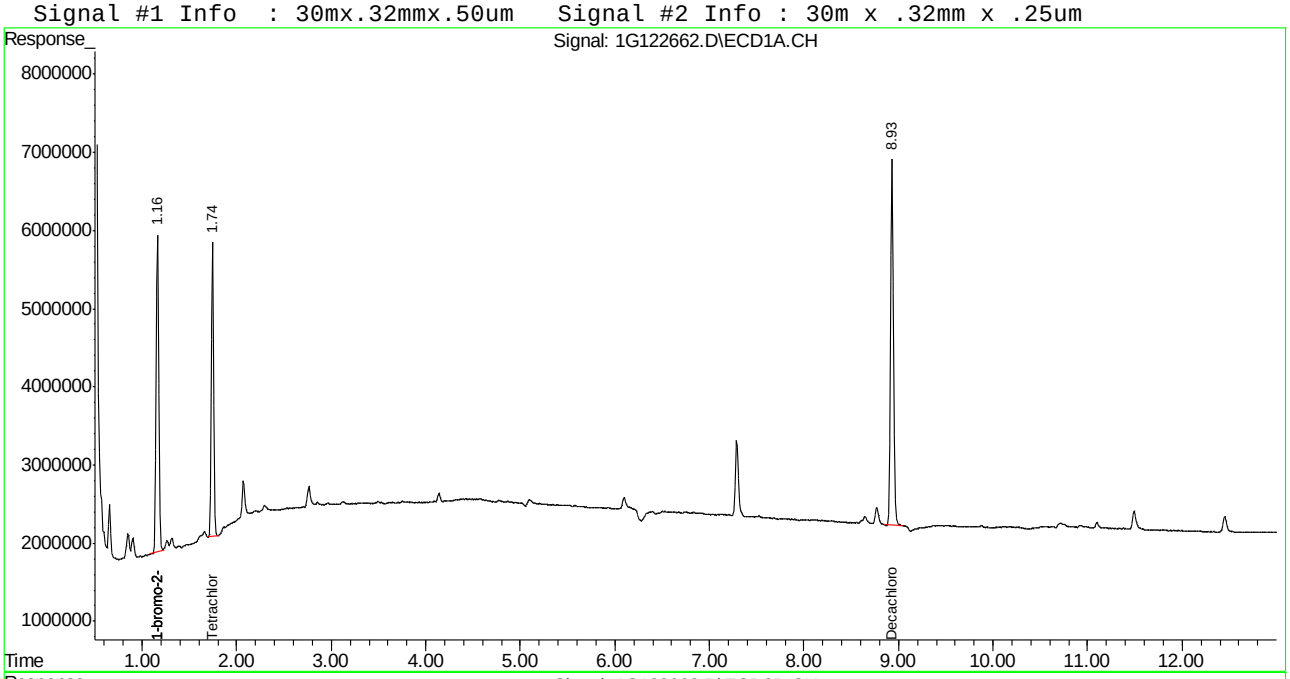
SGS ACCUTEST JC19423

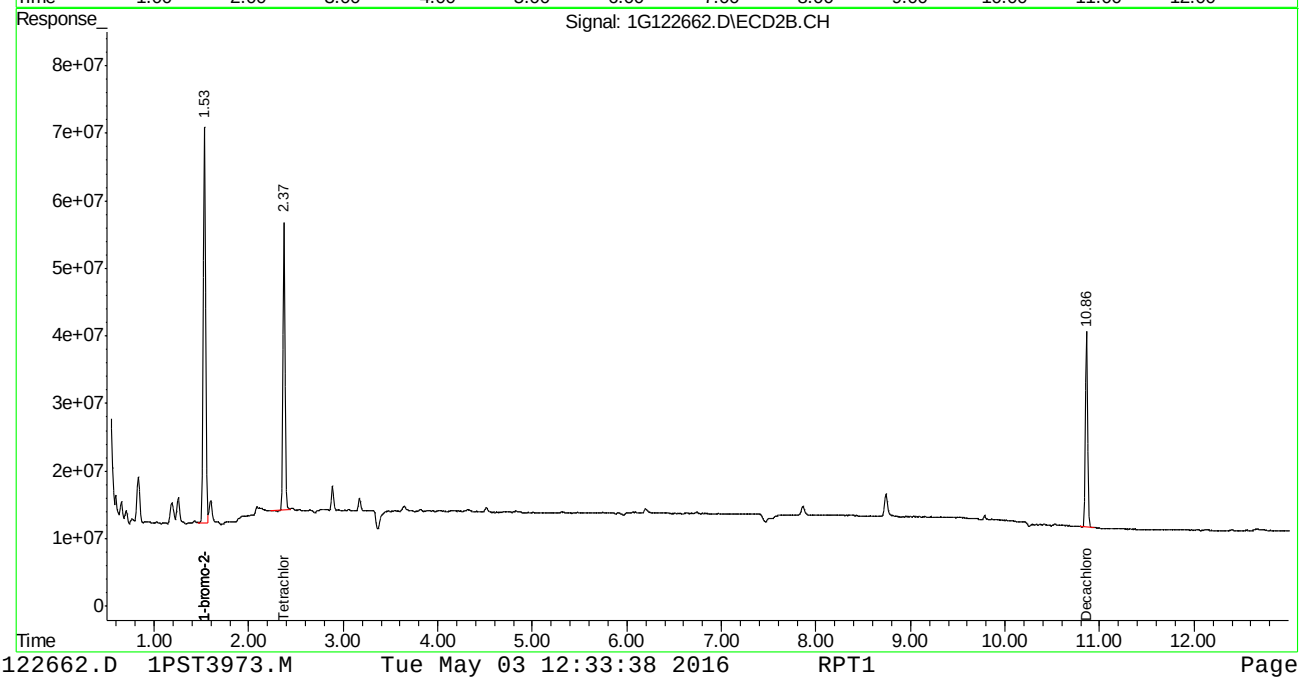
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122662.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122662.D\ECD2B.CH
Acq On : 5-2-16 04:38:50 PM Operator: dharas
Sample : op93549-mb1 Inst : GC1G
Misc : op93549,g1g3977,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 12:33 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/06/16 13:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67963.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:10 am
Operator : dharas
Sample : op93683-mb1
Misc : op93683,g4g1782,15.0,,,10,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:27:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.805	2.065	387.7E6	414.4E6	50.000	50.000
25) I	1-bromo-2...	1.805	2.065	387.7E6	414.4E6	50.000	50.000
31) I	1-bromo-2...	1.805	2.065	387.7E6	414.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.602	3.104	277.8E6	254.4E6	41.549m	34.854
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 103.87%	87.13%
24) SA	Decachlor...	10.253	11.651	319.1E6	194.0E6	50.658m	37.483 #
	Spiked Amount	40.000			Recovery	= 126.65%	93.71%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

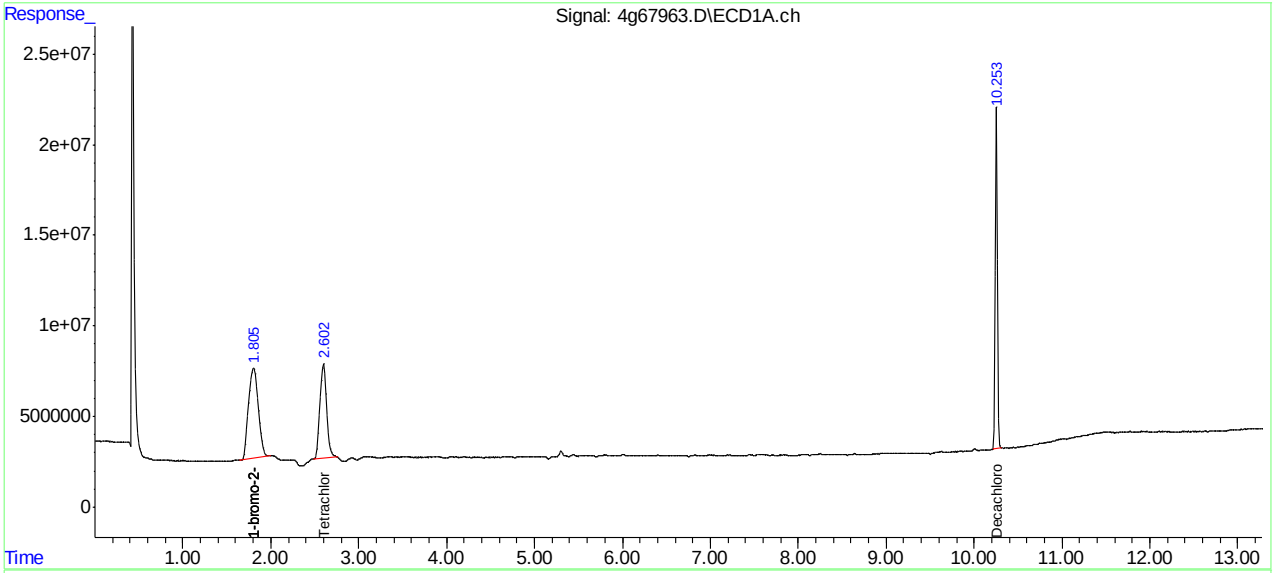
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

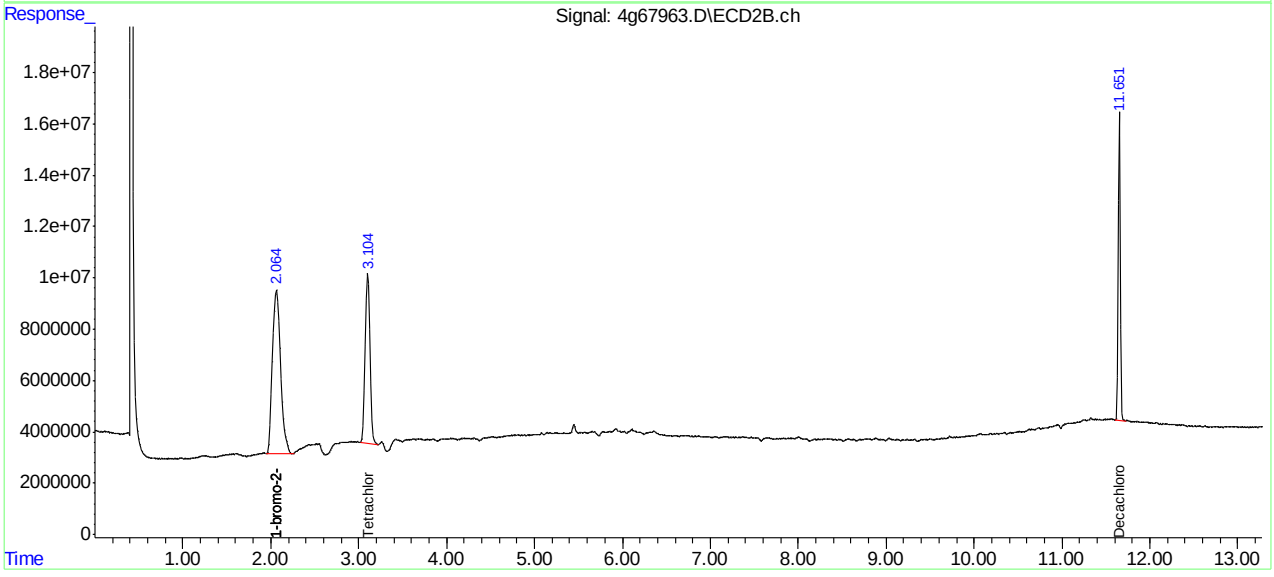
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67963.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:10 am
Operator : dharas
Sample : op93683-mb1
Misc : op93683,g4g1782,15.0,,,10,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:27:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	OP93683-MB1	**Method:**	SW846 8081B
Lab FileID:	4G67963.D	**Analyst approved:**	05/06/16 11:47 Dhara Saparia
Injection Time:	05/06/16 11:10	**Supervisor approved:**	05/06/16 13:06 Gwendolyn Burns

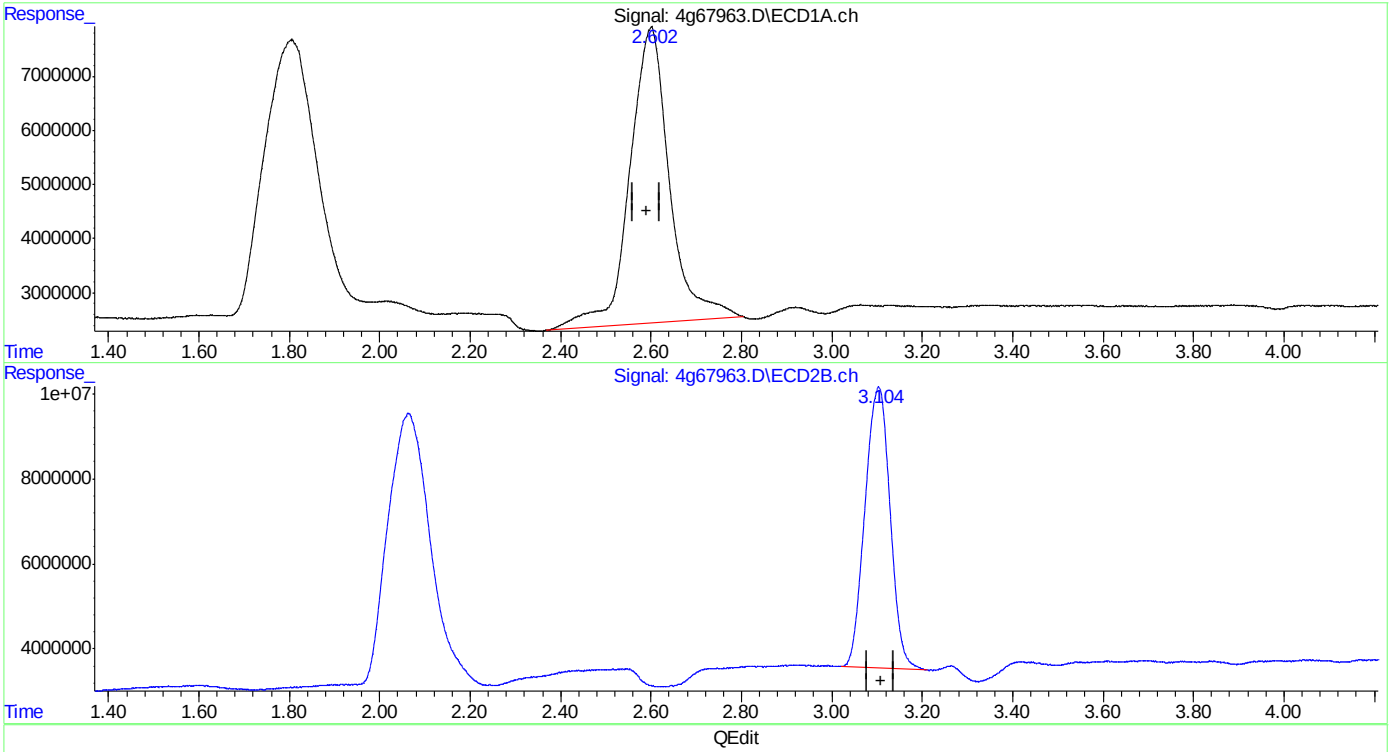
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.60	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.25	Poor instrument integration

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67963.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016  11:10 am
Operator  : dharas
Sample    : op93683-mb1
Misc      : op93683,g4g1782,15.0,,,10,1
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:25:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



(2) Tetrachloro-m-xylene (SAB)

2.600min 49.760 PPB

response 332667389

(2) Tetrachloro-m-xylene #2 (SAB)

3.104min 34.854 PPB

response 254394118

(+) = Expected Retention Time

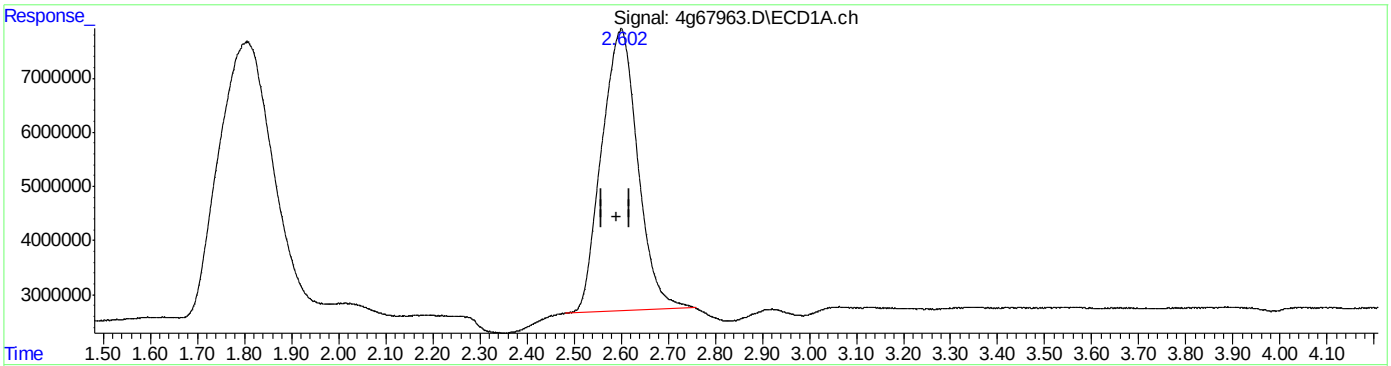
4PST1778.M Fri May 06 11:26:08 2016 RPT1

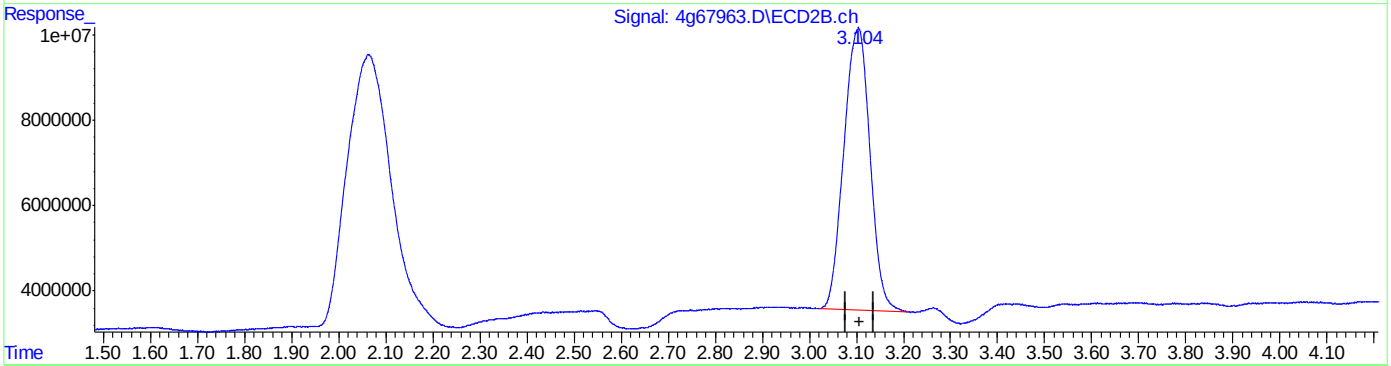
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67963.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016  11:10 am
Operator  : dharas
Sample    : op93683-mb1
Misc      : op93683,g4g1782,15.0,,,10,1
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:25:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

2.602min 41.549 PPB m

response 277773404

(2) Tetrachloro-m-xylene #2 (SAB)

3.104min 34.854 PPB

response 254394118

(+) = Expected Retention Time

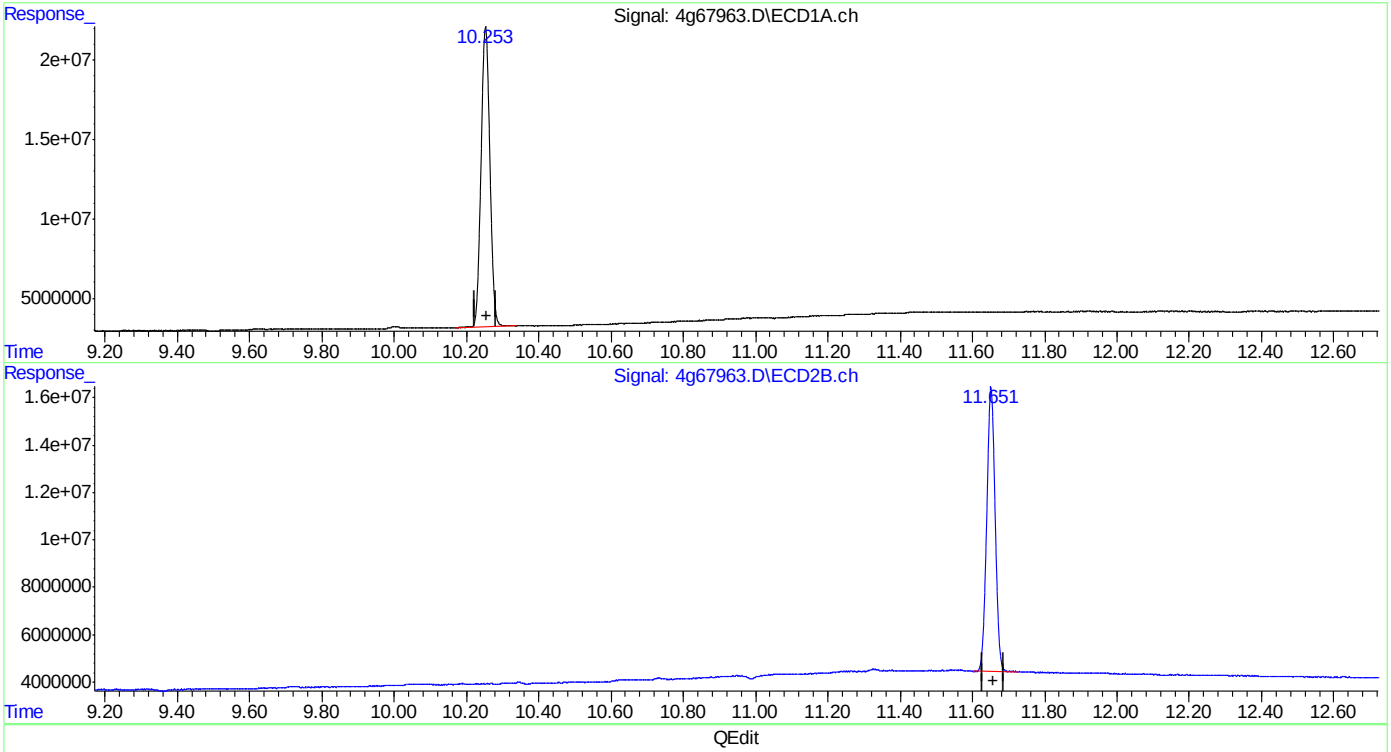
4PST1778.M Fri May 06 11:26:19 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67963.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:10 am
Operator : dharas
Sample : op93683-mb1
Misc : op93683,g4g1782,15.0,,,10,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:25:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.253min 50.818 PPB
response 320155436

(24) Decachlorobiphenyl #2 (SA)
11.651min 37.483 PPB
response 194027589

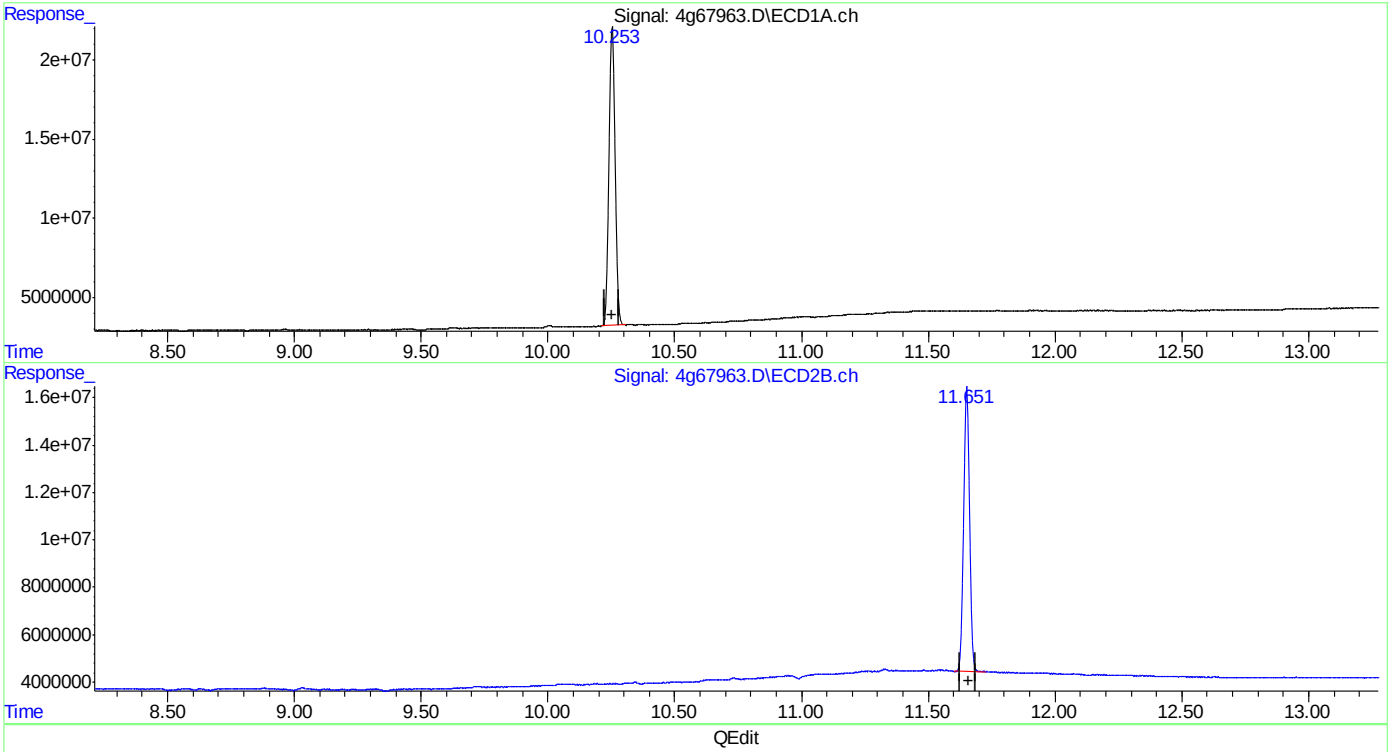
(+) = Expected Retention Time
4PST1778.M Fri May 06 11:26:39 2016 RPT1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67963.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016  11:10 am
Operator  : dharas
Sample    : op93683-mb1
Misc      : op93683,g4g1782,15.0,,,10,1
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:25:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(24) Decachlorobiphenyl (SA)

10.253min 50.658 PPB m

response 319142519

(24) Decachlorobiphenyl #2 (SA)

11.651min 37.483 PPB

response 194027589

(+) = Expected Retention Time

4PST1778.M Fri May 06 11:26:51 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/03/16 13:15

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD2B.CH
Acq On : 5-2-16 04:56:22 PM Operator: dharas
Sample : op93549-bs1 Inst : GC1G
Misc : op93549,g1g3977,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 12:34 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.16	1.53	92815956	1182.2E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.16	1.53	92815956	1182.2E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.16	1.53	92815956	1182.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.74	2.37	80669843	812.3E6	41.479	37.990
Spiked Amount	40.000	Range	30 - 150	Recovery	=	103.70%	94.98%
24) SA	Decachlorobiphen	8.93	10.86	125.8E6	591.1E6	36.637	47.398
Spiked Amount	40.000			Recovery	=	91.59%	118.50%
	Target Compounds						
3) A	alpha-BHC	2.21	3.04	72803829	788.5E6	30.497	24.340
4) MA	gamma-BHC	2.50	3.47	71263486	669.5E6	30.810	23.242m
5) MA	Heptachlor	2.97	4.04	72396164	635.7E6	28.612	25.072
6) B	beta-BHC	2.58	3.56	33040008	357.5E6	29.019	29.330
7) B	delta-BHC	2.76	3.95	64595829	655.3E6	32.947	24.397
8) MB	Aldrin	3.29	4.49	65471485	613.7E6	26.634	22.808
9) B	Heptachlor Epoxi	3.99	5.31	70886668	605.3E6	28.755	25.489
10) B	gamma-Chlordane	4.14	5.60	67081130	577.1E6	26.857	24.650
11) B	alpha-Chlordane	4.31	5.82	65075584	551.0E6	25.924	24.117
12) A	Endosulfan I	4.48	5.92	70635365	542.7E6	26.344	23.980
13) B	4,4'-DDE	4.43	6.10	55036755	504.2E6	27.155	22.281
14) MA	Dieldrin	4.80	6.35	70806144	599.2E6	29.094	24.997
15) MA	Endrin	5.11	6.86	74788995	559.4E6	33.469	26.371
16) A	4,4'-DDD	5.26	7.05	48043464	472.1E6	28.127	23.882
17) B	Endosulfan II	5.43	7.21	62898968	524.6E6	27.948	24.949
18) MA	4,4'-DDT	5.66	7.58	47474483	361.9E6	29.709	28.476
19) B	Endrin Aldehyde	6.05	7.78	58074536	399.9E6	30.947	26.437
20) B	Endosulfan Sulfa	6.73	8.26	56685835	446.0E6	27.132	26.120
21) A	Methoxychlor	6.44	8.83	30242780	198.4E6	27.951m	27.577
23) B	Endrin Ketone	7.16	9.22	65660097	468.2E6	31.672	29.597

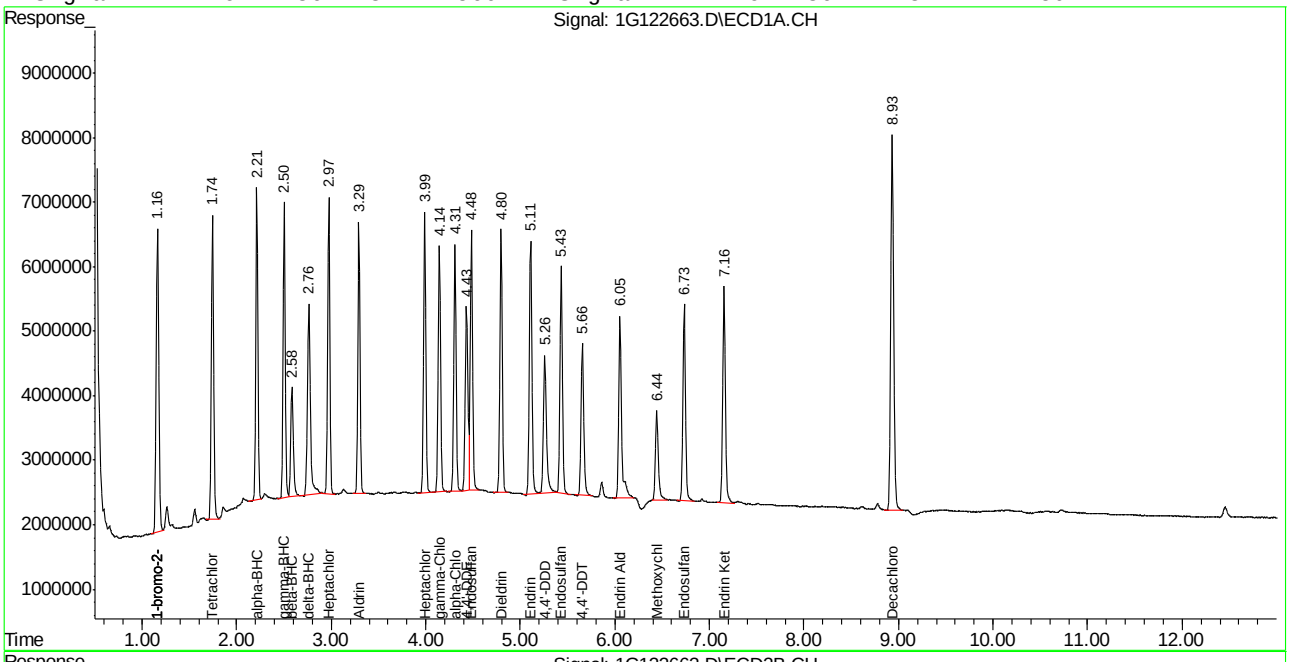
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122663.D 1PST3973.M Tue May 03 12:34:38 2016 RPT1 Page 1

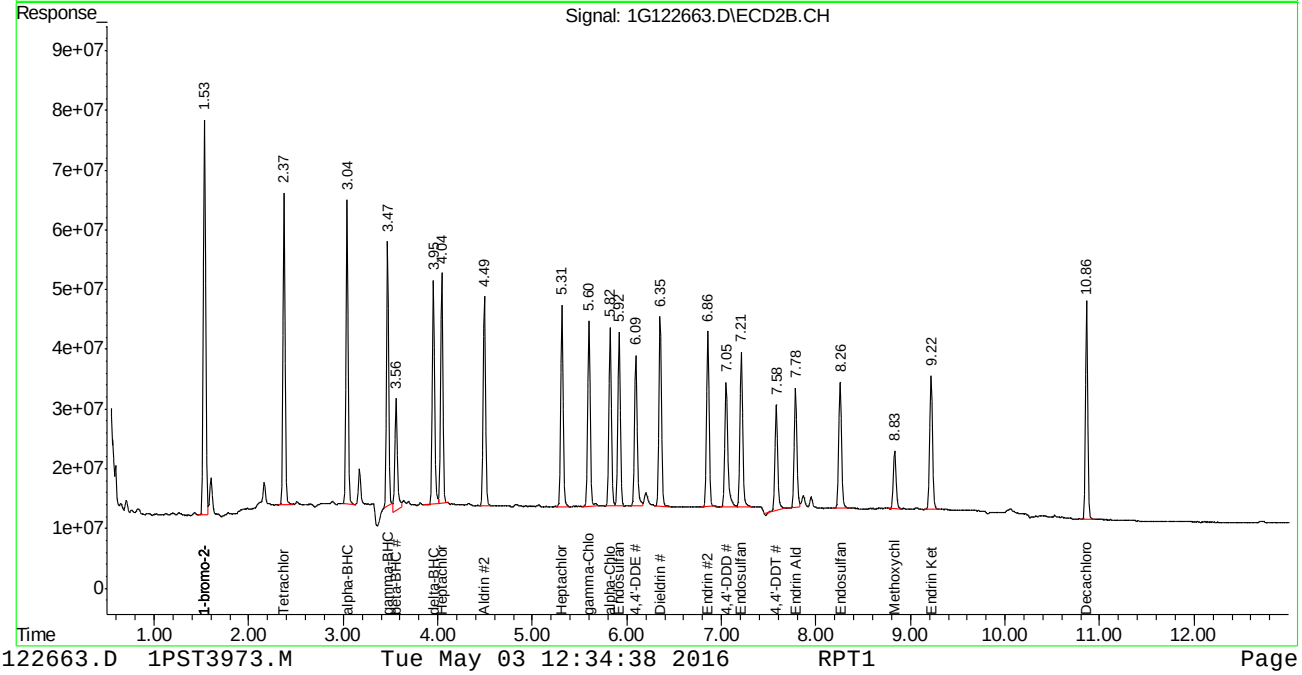
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD2B.CH
Acq On : 5-2-16 04:56:22 PM Operator: dharas
Sample : op93549-bs1 Inst : GC1G
Misc : op93549,g1g3977,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 12:34 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

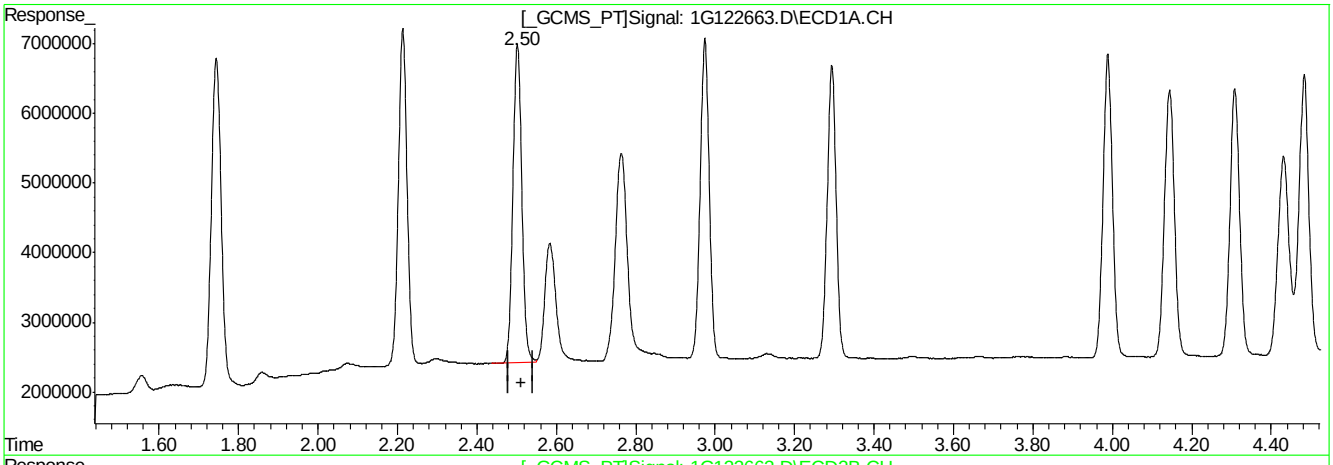
Sample Number:	OP93549-BS1	**Method:**	SW846 8081B
Lab FileID:	1G122663.D	**Analyst approved:**	05/03/16 12:39 Dhara Saparia
Injection Time:	05/02/16 16:56	**Supervisor approved:**	05/03/16 13:15 Gwendolyn Burns

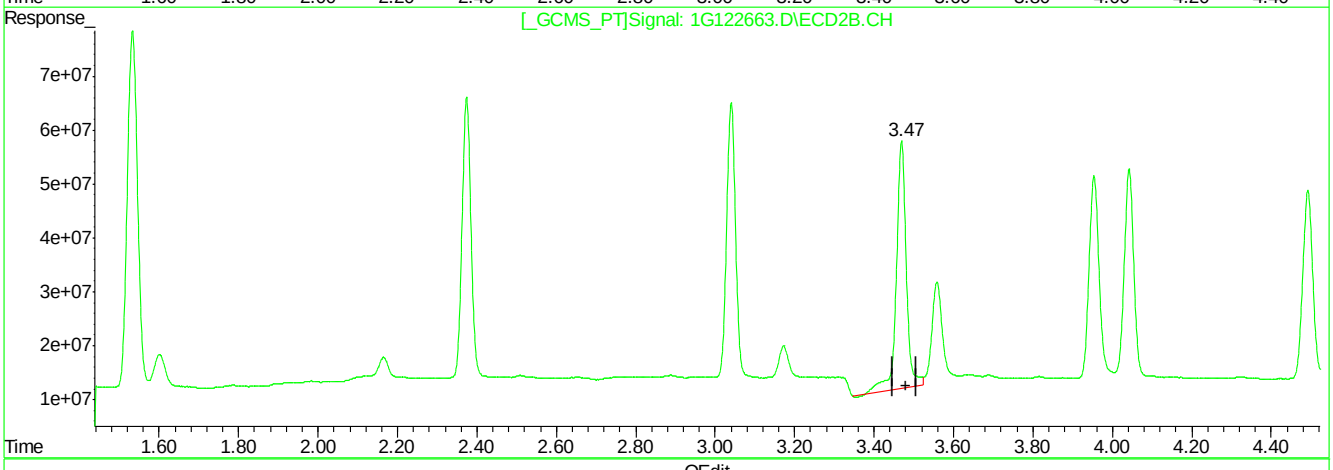
Parameter	CAS	Sig#	R.T. (min.)	Reason
gamma-BHC (Lindane)	58-89-9	2	3.47	Poor instrument integration
Methoxychlor	72-43-5	1	6.44	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD2B.CH
Acq On    : 5-2-16 04:56:22 PM                      Operator: dharas
Sample    : op93549-bs1                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:33 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.50min 30.810PPB

response 71263486

(4) gamma-BHC #2 (MA)

3.47min 27.667PPB

response 796983135

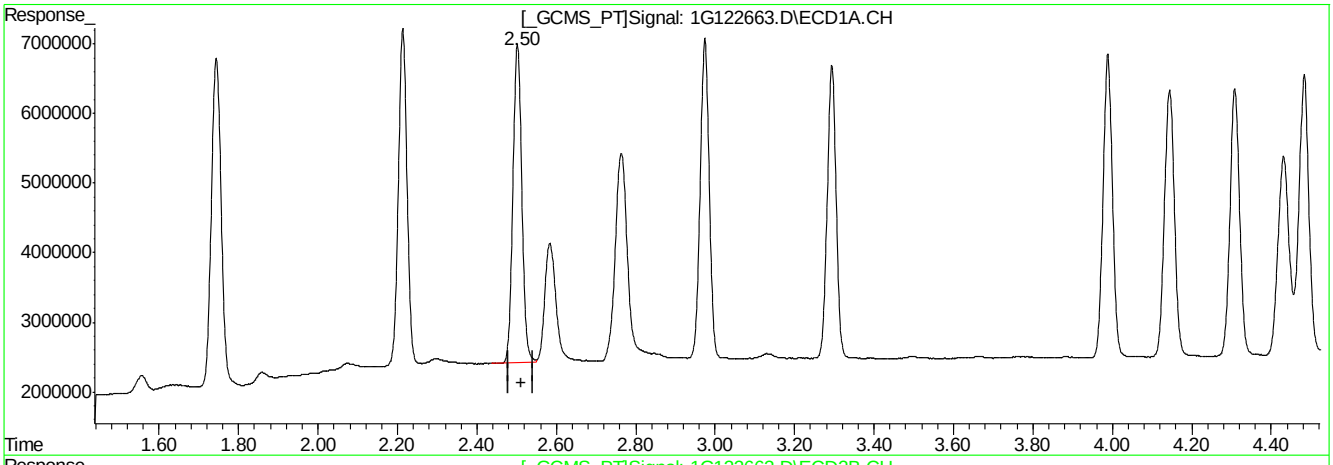
(+) = Expected Retention Time

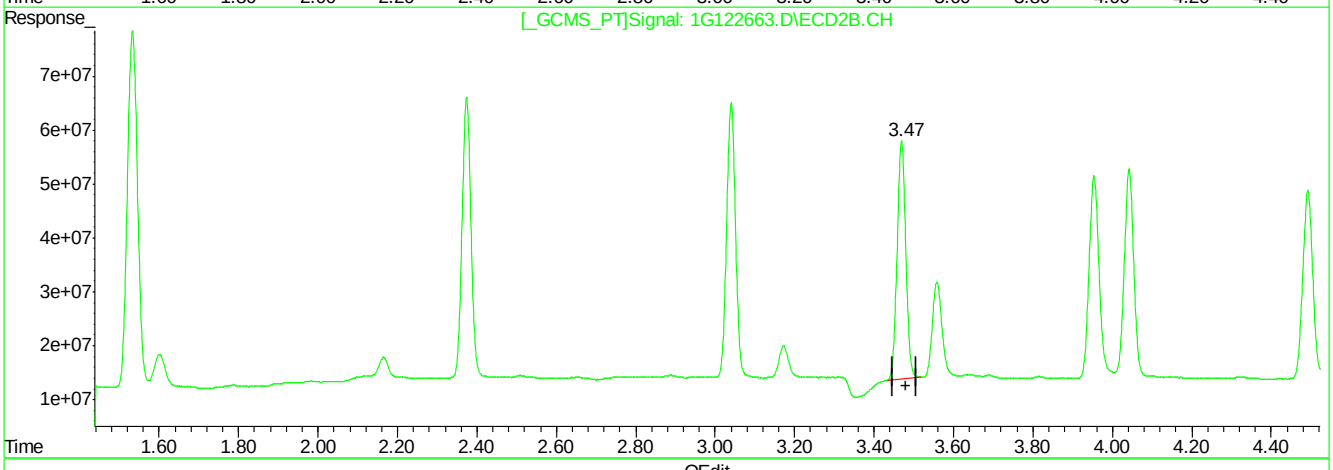
1G122663.D 1PST3973.M Tue May 03 12:33:55 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD2B.CH
Acq On    : 5-2-16 04:56:22 PM                      Operator: dharas
Sample    : op93549-bs1                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:33 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.50min 30.810PPB

response 71263486

(4) gamma-BHC #2 (MA)

3.47min 23.242PPB m

response 669527406

(+) = Expected Retention Time

1G122663.D 1PST3973.M Tue May 03 12:34:01 2016 RPT1

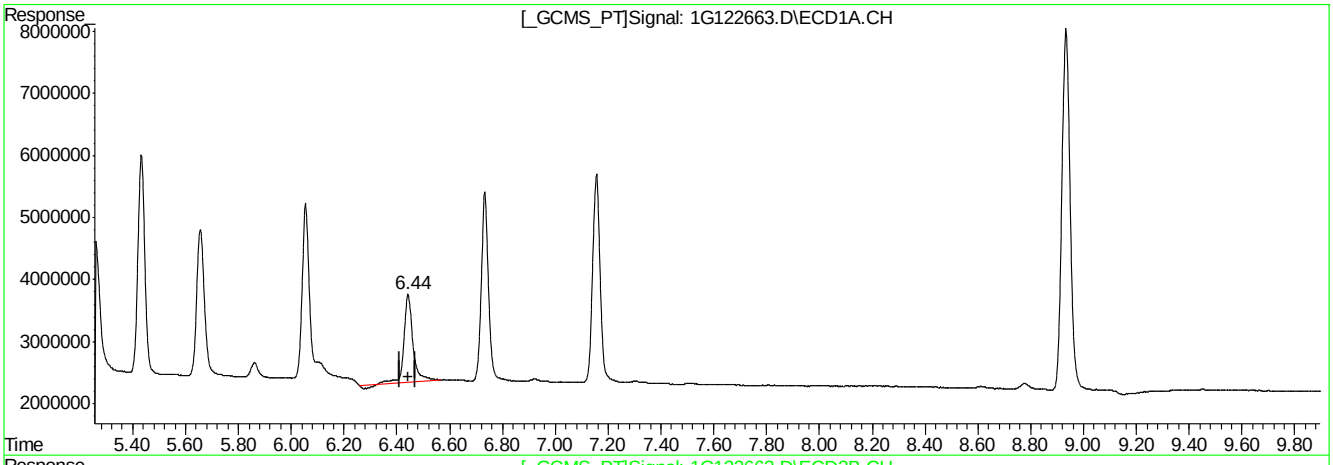
9.3.1.3

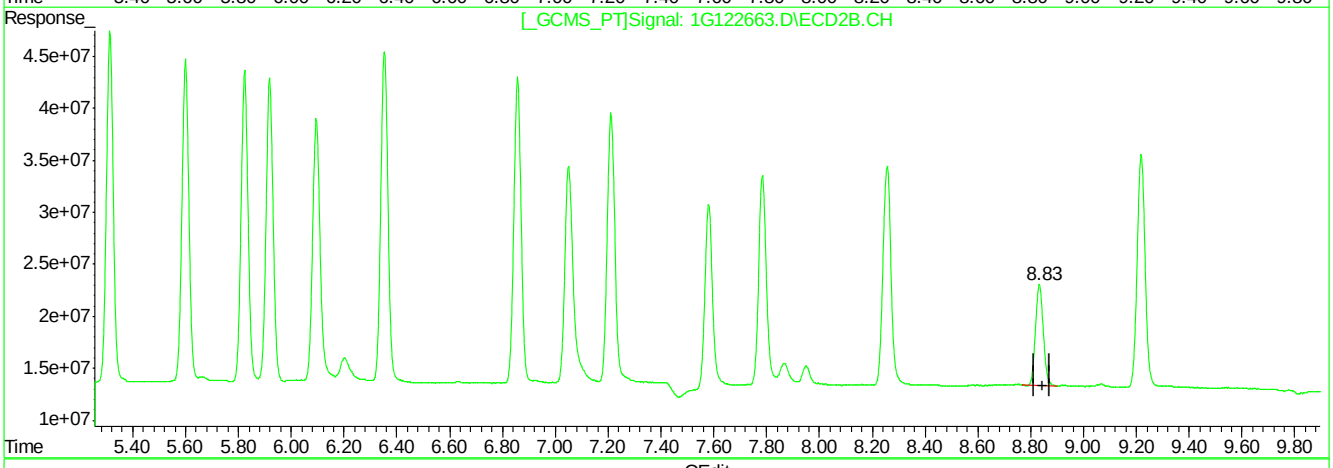
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD2B.CH
Acq On    : 5-2-16 04:56:22 PM                      Operator: dharas
Sample    : op93549-bs1                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:33 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.44min 29.900PPB

response 32352385

(21) Methoxychlor #2 (A)

8.83min 27.577PPB

response 198374437

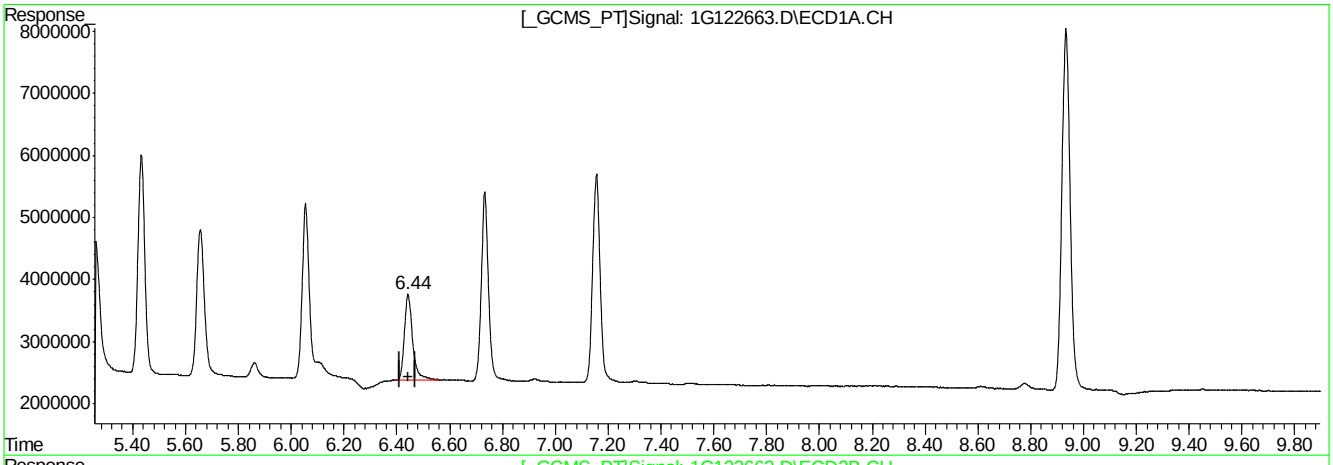
(+) = Expected Retention Time

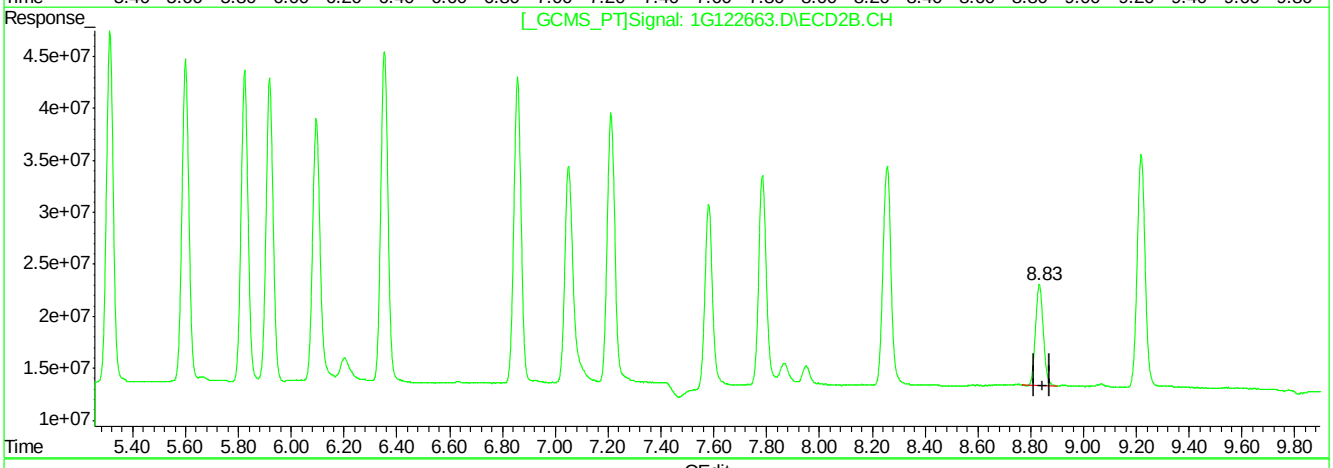
1G122663.D 1PST3973.M Tue May 03 12:34:13 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122663.D\ECD2B.CH
Acq On    : 5-2-16 04:56:22 PM                      Operator: dharas
Sample    : op93549-bs1                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:33 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.44min 27.951PPB m

response 30242780

(21) Methoxychlor #2 (A)

8.83min 27.577PPB

response 198374437

(+) = Expected Retention Time

1G122663.D 1PST3973.M Tue May 03 12:34:19 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/06/16 13:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67964.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:25 am
Operator : dharas
Sample : op93683-bs1
Misc : op93683,g4g1782,15.0,,,10,1
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:47:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.798	2.066	390.5E6	413.8E6	50.000	50.000	
25) I	1-bromo-2...	1.798	2.066	390.5E6	413.8E6	50.000	50.000	
31) I	1-bromo-2...	1.798	2.066	390.5E6	413.8E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.586	3.107	294.1E6	257.8E6	43.677m	35.376	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 109.19%	88.44%	
24) SA	Decachlor...	10.245	11.647	332.6E6	200.6E6	52.422m	38.809	#
	Spiked Amount	40.000			Recovery	= 131.05%	97.02%	
	Target Compounds							
3) A	alpha-BHC	3.154	3.867	226.0E6	212.7E6	24.530m	19.969	
4) MA	gamma-BHC	3.501	4.344	206.4E6	194.5E6	25.615	20.545	
5) MA	Heptachlor	3.827	4.971	182.7E6	208.1E6	24.163	21.337	
6) B	beta-BHC	3.611	4.441	108.1E6	91317309	28.014	21.299	
7) B	delta-BHC	4.061	4.871	206.3E6	178.1E6	28.116	20.156	#
8) MB	Aldrin	4.436	5.456	197.8E6	202.4E6	25.629	21.066	
9) B	Heptachlo...	5.199	6.318	184.1E6	191.6E6	26.703	22.079	
10) B	gamma-Chl...	5.380	6.616	192.0E6	188.8E6	27.851	22.511	
11) B	alpha-Chl...	5.562	6.847	191.2E6	184.8E6	25.732	21.943	
12) A	Endosulfan I	5.746	6.953	207.9E6	176.7E6	27.204	21.970	
13) B	4,4'-DDE	5.695	7.107	152.5E6	181.9E6	22.135	21.653	
14) MA	Dieldrin	6.084	7.400	200.6E6	191.9E6	27.686	22.884	
15) MA	Endrin	6.422	7.921	187.4E6	168.5E6	27.160	22.544	
16) A	4,4'-DDD	6.575	8.081	149.9E6	150.1E6	25.673	22.123	
17) B	Endosulfa...	6.762	8.278f	180.6E6	166.3E6	27.209	22.509	
18) MA	4,4'-DDT	6.996	8.623	130.1E6	141.4E6	29.812	23.844	
19) B	Endrin Al...	7.396	8.856f	152.7E6	127.7E6	27.252	22.747	
20) B	Endosulfa...	8.091	9.330f	169.0E6	138.9E6	27.777	22.453	
21) A	Methoxychlor	7.808	9.833	78457055	72491398	30.158	22.487	#
23) B	Endrin Ke...	8.555	10.192	197.9E6	154.7E6	28.123	22.789	

SemiQuant Compounds - Not Calibrated on this Instrument

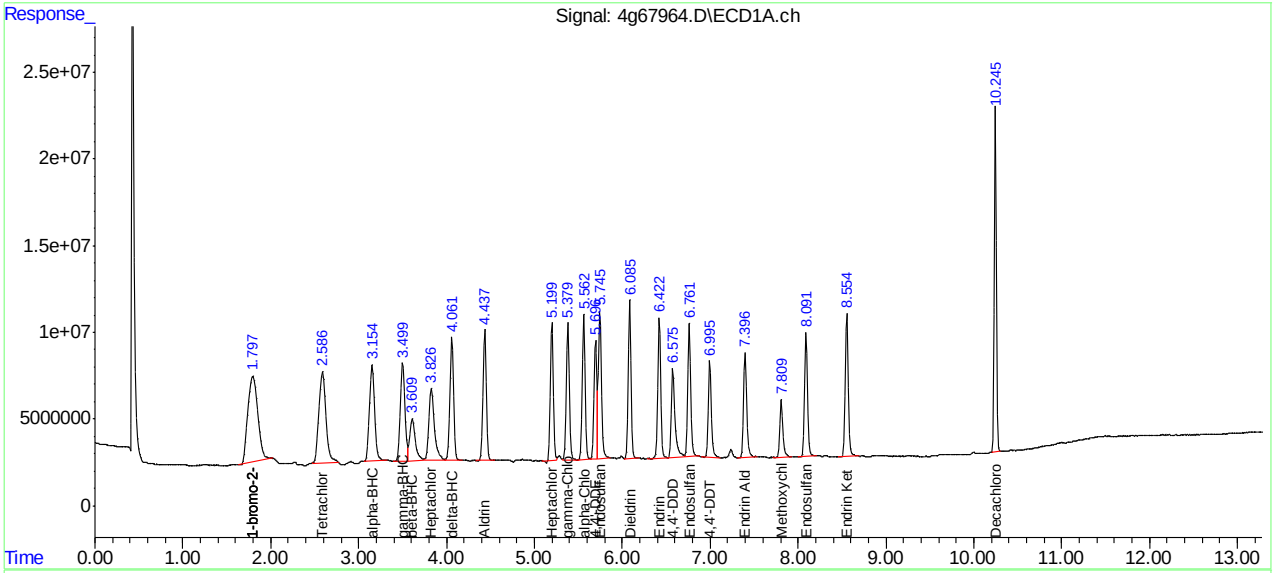
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

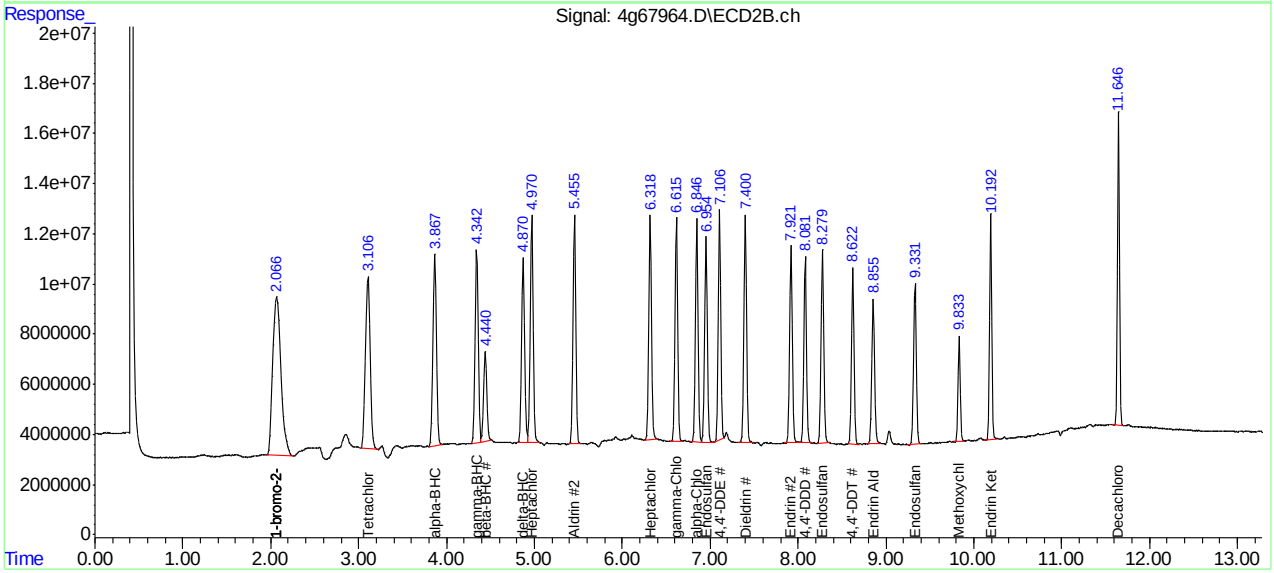
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67964.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:25 am
Operator : dharas
Sample : op93683-bs1
Misc : op93683,g4g1782,15.0,,,10,1
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:47:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC19423

Manual Integration Approval Summary

Sample Number:	OP93683-BS1	**Method:**	SW846 8081B
Lab FileID:	4G67964.D	**Analyst approved:**	05/06/16 11:47 Dhara Saparia
Injection Time:	05/06/16 11:25	**Supervisor approved:**	05/06/16 13:06 Gwendolyn Burns

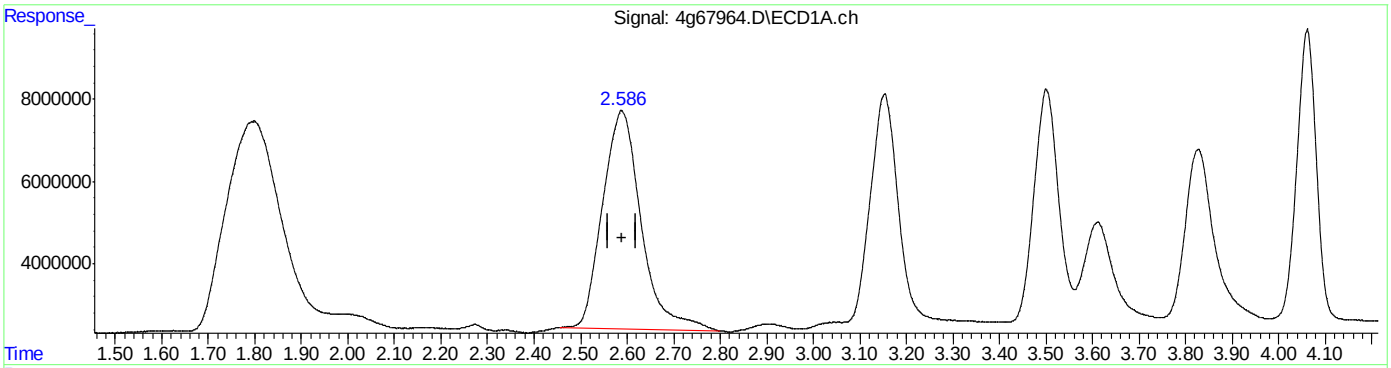
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
alpha-BHC	319-84-6	1	3.15	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.24	Poor instrument integration

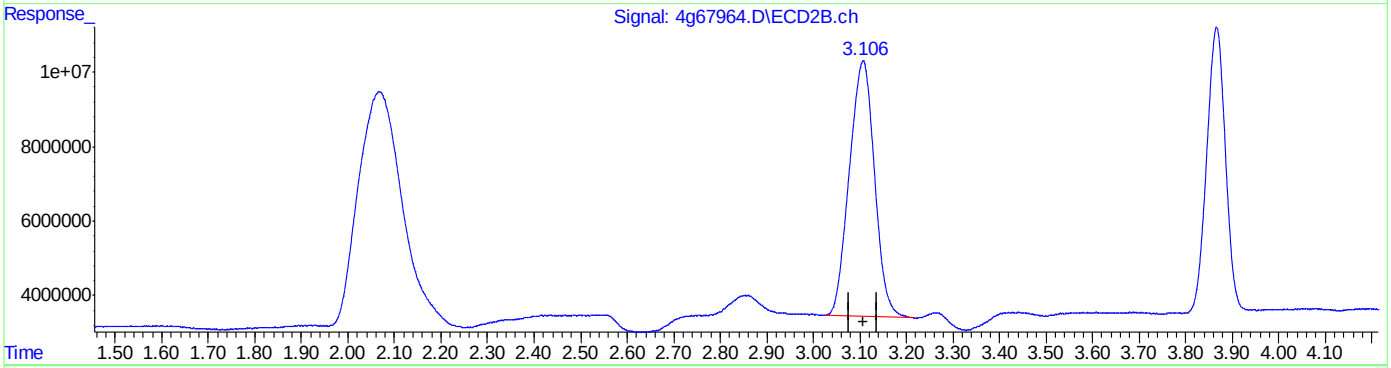
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67964.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:25 am
Operator : dharas
Sample : op93683-bs1
Misc : op93683,g4g1782,15.0,,,10,1
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:46:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.588min 45.338 PPB
response 305263548

(2) Tetrachloro-m-xylene #2 (SAB)
3.107min 35.376 PPB
response 257799191

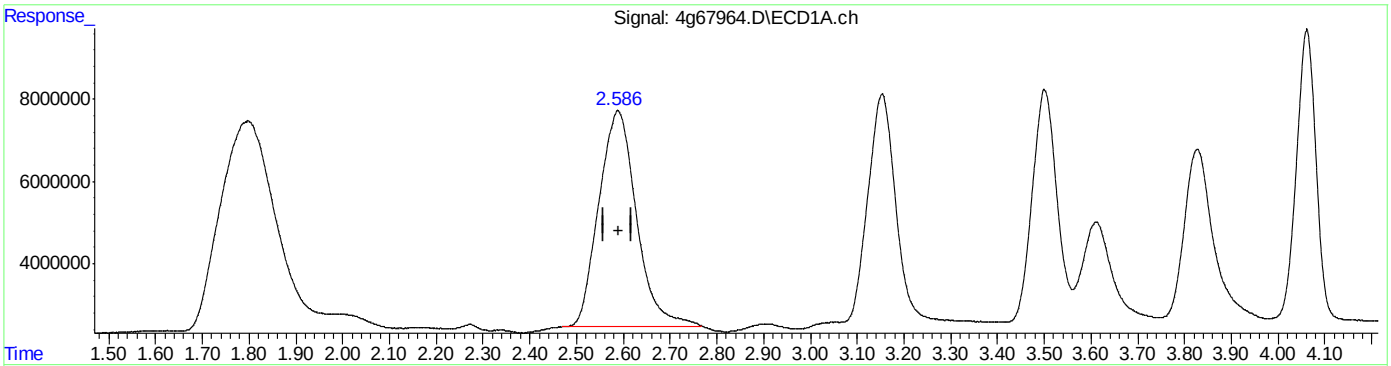
(+) = Expected Retention Time
4PST1778.M Fri May 06 11:46:14 2016 RPT1

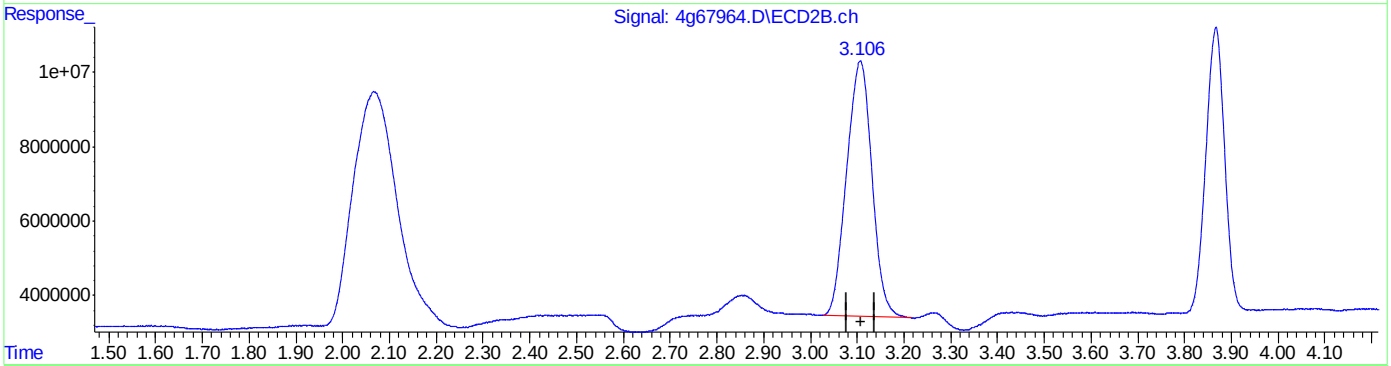
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67964.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016  11:25 am
Operator  : dharas
Sample    : op93683-bs1
Misc      : op93683,g4g1782,15.0,,,10,1
ALS Vial  : 24   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:46:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

2.586min 43.677 PPB m

response 294078374

(2) Tetrachloro-m-xylene #2 (SAB)

3.107min 35.376 PPB

response 257799191

(+) = Expected Retention Time

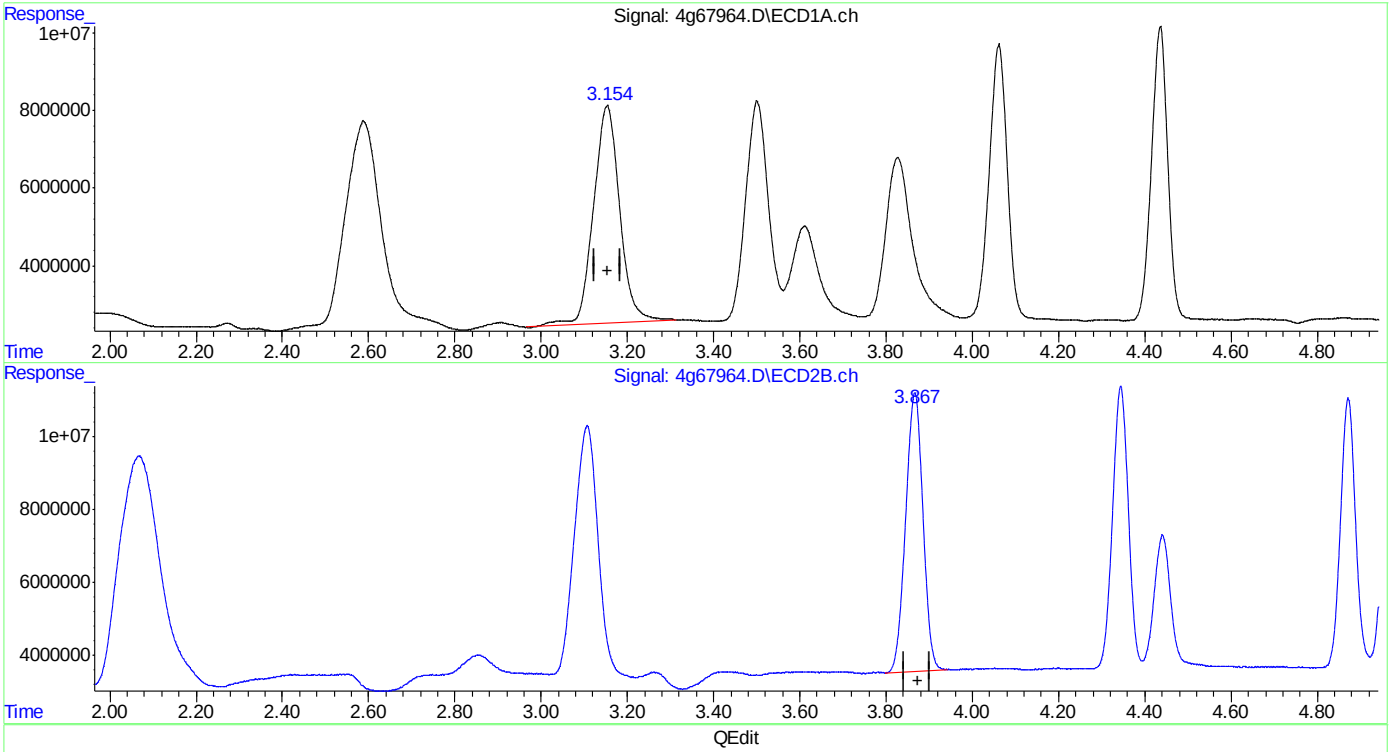
4PST1778.M Fri May 06 11:46:33 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67964.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:25 am
Operator : dharas
Sample : op93683-bs1
Misc : op93683,g4g1782,15.0,,,10,1
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:46:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(3) alpha-BHC (A)
3.153min 25.654 PPB
response 236364649

(3) alpha-BHC #2 (A)
3.867min 19.969 PPB
response 212729306

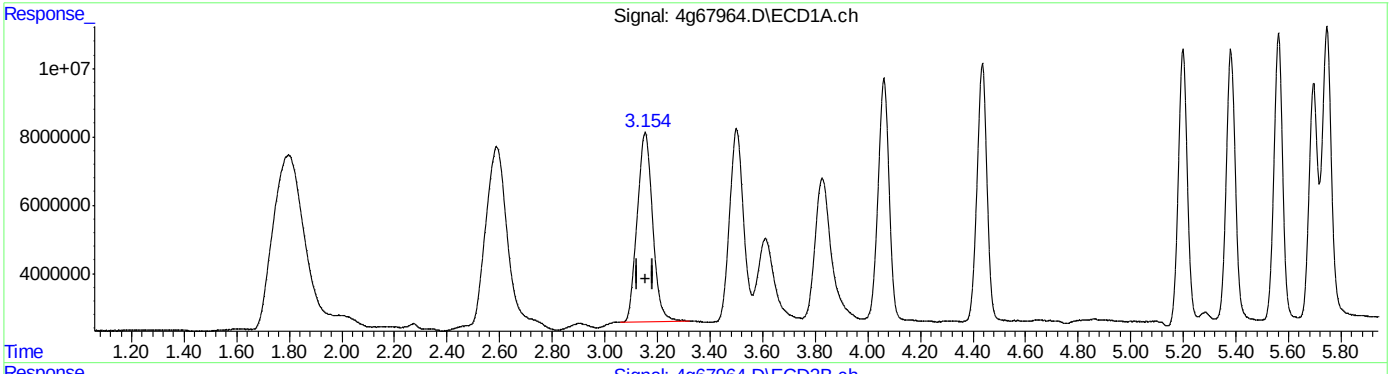
(+) = Expected Retention Time
4PST1778.M Fri May 06 11:46:42 2016 RPT1

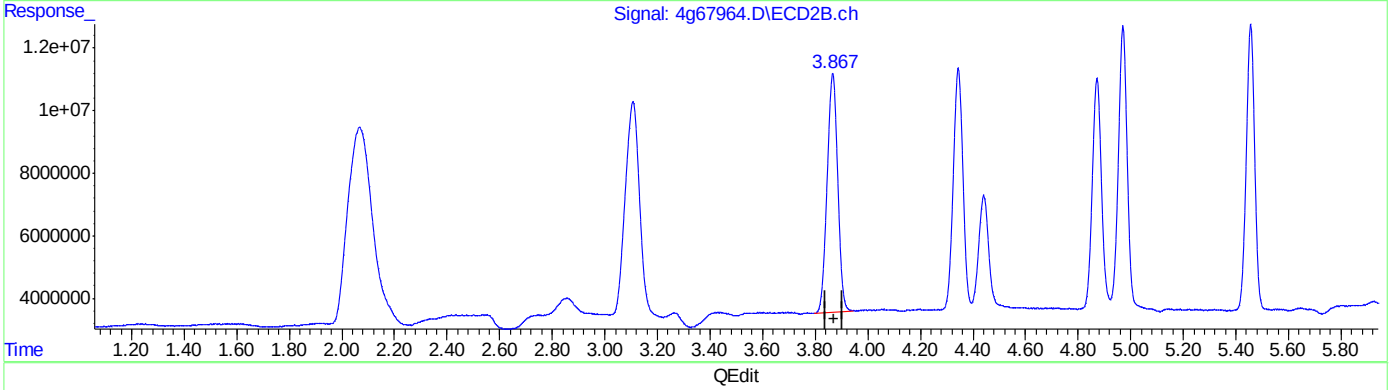
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67964.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:25 am
Operator : dharas
Sample : op93683-bs1
Misc : op93683,g4g1782,15.0,,,10,1
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:46:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(3) alpha-BHC (A)
3.154min 24.530 PPB m
response 226006745

(3) alpha-BHC #2 (A)
3.867min 19.969 PPB
response 212729306

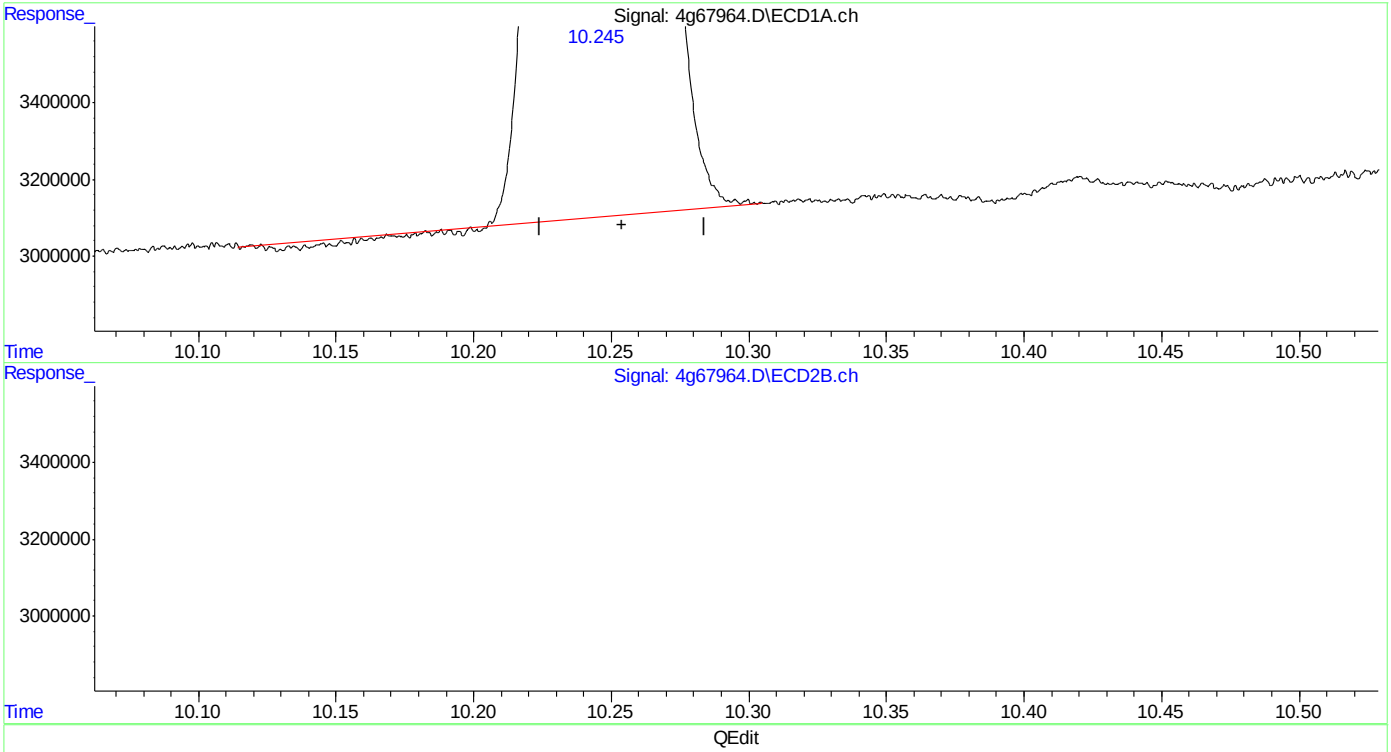
(+) = Expected Retention Time
4PST1778.M Fri May 06 11:46:50 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67964.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:25 am
Operator : dharas
Sample : op93683-bs1
Misc : op93683,g4g1782,15.0,,,10,1
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:46:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.245min 52.345 PPB
response 332121533

(24) Decachlorobiphenyl #2 (SA)
11.647min 38.809 PPB
response 200570702

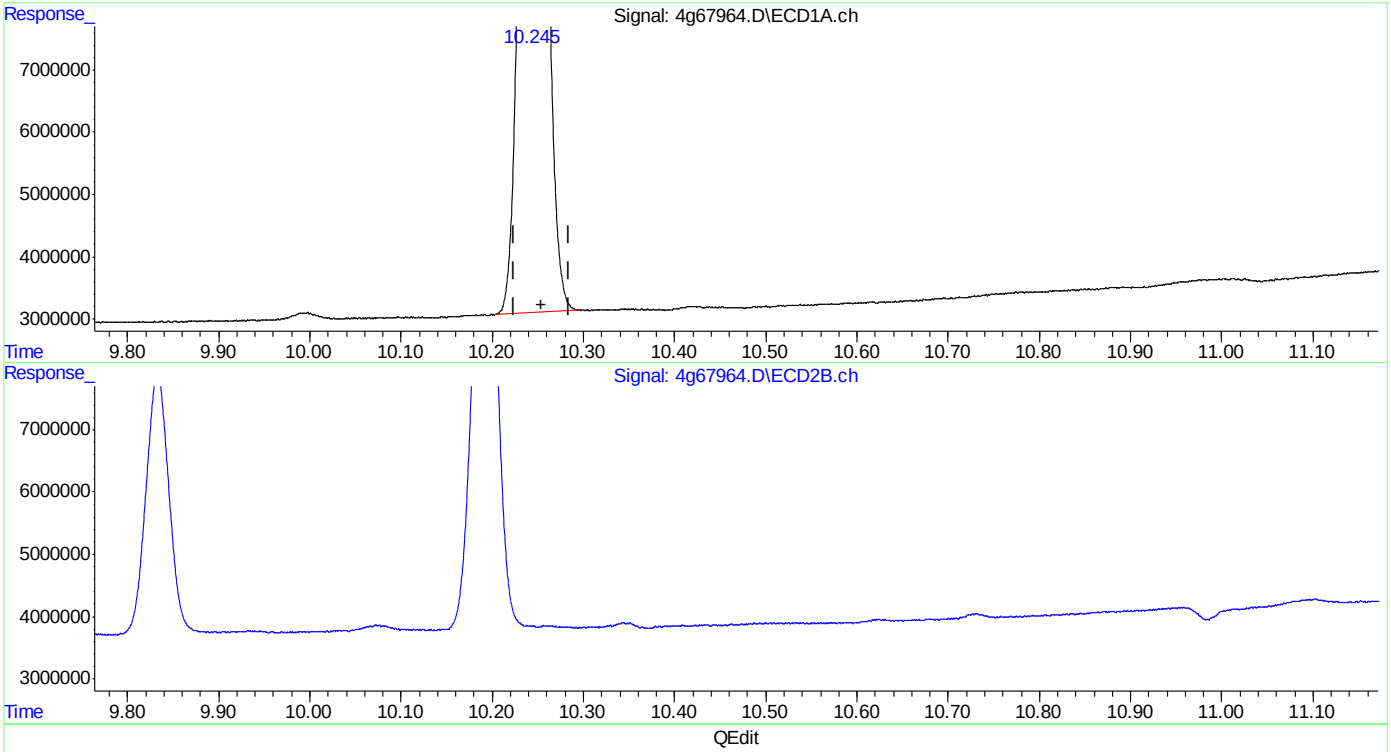
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67964.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016  11:25 am
Operator  : dharas
Sample    : op93683-bs1
Misc      : op93683,g4g1782,15.0,,,10,1
ALS Vial  : 24   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 11:46:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(24) Decachlorobiphenyl (SA)

10.245min 52.422 PPB m

response 332608140

(24) Decachlorobiphenyl #2 (SA)

11.647min 38.809 PPB

response 200570702

(+) = Expected Retention Time

4PST1778.M Fri May 06 11:47:21 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/03/16 13:15

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD2B.CH
Acq On : 5-2-16 05:13:54 PM Operator: dharas
Sample : op93549-ms Inst : GC1G
Misc : op93549,g1g3977,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 12:35 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.16	1.53	92360380	1167.5E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.16	1.53	92360380	1167.5E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.16	1.53	92360380	1167.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.74	2.37	83229232	831.8E6	43.006	39.394
Spiked Amount	40.000	Range	30 - 150	Recovery	=	107.52%	98.48%
24) SA	Decachlorobiphen	8.94	10.86	123.7E6	580.6E6	36.199	47.137
Spiked Amount	40.000			Recovery	=	90.50%	117.84%
	Target Compounds						
3) A	alpha-BHC	2.21	3.04	76089413	819.1E6	32.030	25.602
4) MA	gamma-BHC	2.50	3.47	73832284	727.2E6	32.078	25.562m
5) MA	Heptachlor	2.97	4.04	78188467	707.6E6	31.054	28.258
6) B	beta-BHC	2.58	3.56	33903641	348.9E6	29.925	28.984
7) B	delta-BHC	2.76	3.95	59910444	698.4E6	30.708	26.328
8) MB	Aldrin	3.29	4.49	73333861	681.8E6	29.980	25.660
9) B	Heptachlor Epoxi	3.99	5.31	74610676	629.1E6	30.415	26.824
10) B	gamma-Chlordane	4.14	5.60	72329360	619.4E6	29.101	26.786
11) B	alpha-Chlordane	4.31	5.82	70393212	598.2E6	28.180	26.513
12) A	Endosulfan I	4.48	5.92	74867358	580.8E6	28.060	25.987
13) B	4,4'-DDE	4.43	6.10	61861422	568.2E6	30.673	25.423
14) MA	Dieldrin	4.80	6.35	74655404	627.0E6	30.827	26.485
15) MA	Endrin	5.11	6.86	73638552	585.6E6	33.117	27.955
16) A	4,4'-DDD	5.26	7.05	51951852	511.6E6	30.565	26.204
17) B	Endosulfan II	5.43	7.21	65368376	547.5E6	29.188	26.365
18) MA	4,4'-DDT	5.66	7.58	53647920	403.2E6	33.738	32.122
19) B	Endrin Aldehyde	6.05	7.78	56351280	418.7E6	30.177	28.024
20) B	Endosulfan Sulfa	6.73	8.26	59280720	463.5E6	28.514	27.482
21) A	Methoxychlor	6.45	8.83	32005062	204.4E6	29.725m	28.770
23) B	Endrin Ketone	7.15	9.22	68188064	488.7E6	33.054	31.287

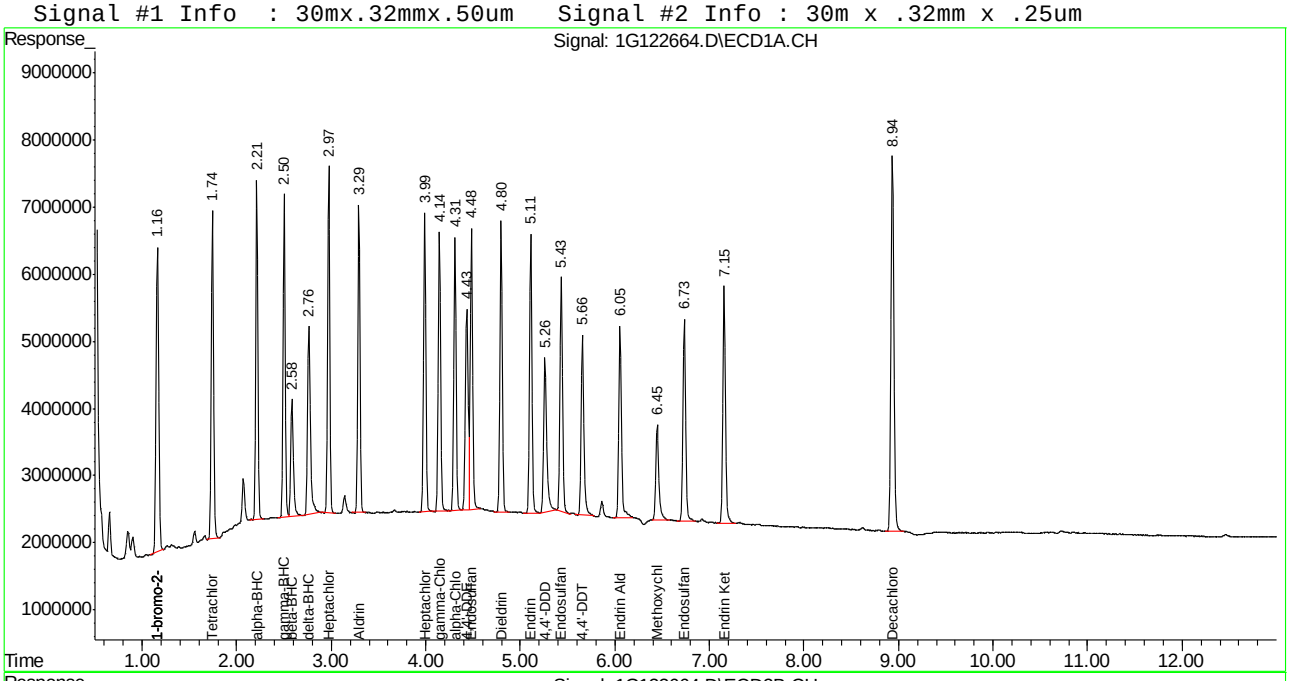
(f)=RT Delta > 1/2 Window (m)=manual int.

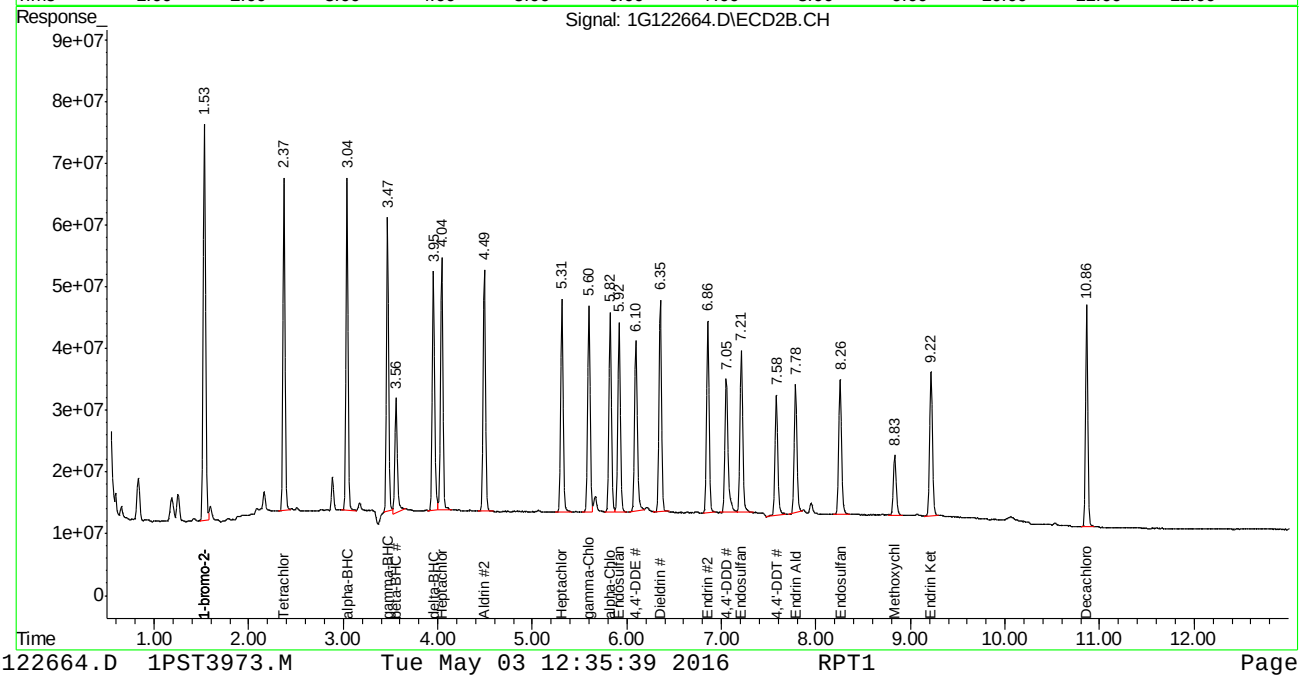
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD2B.CH
Acq On : 5-2-16 05:13:54 PM Operator: dharas
Sample : op93549-ms Inst : GC1G
Misc : op93549,g1g3977,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 12:35 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

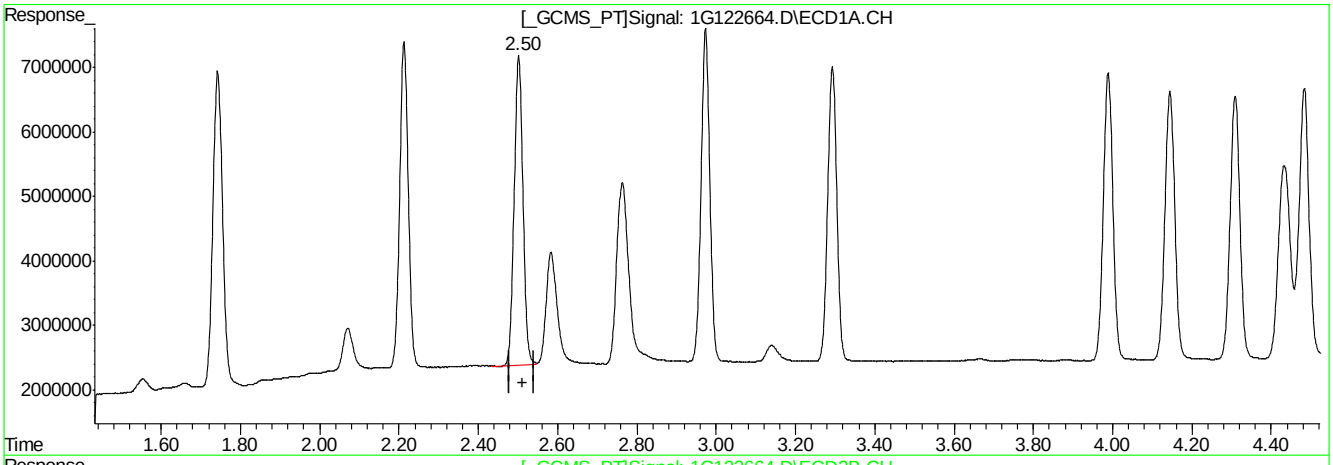
Sample Number:	OP93549-MS	**Method:**	SW846 8081B
Lab FileID:	1G122664.D	**Analyst approved:**	05/03/16 12:39 Dhara Saparia
Injection Time:	05/02/16 17:13	**Supervisor approved:**	05/03/16 13:15 Gwendolyn Burns

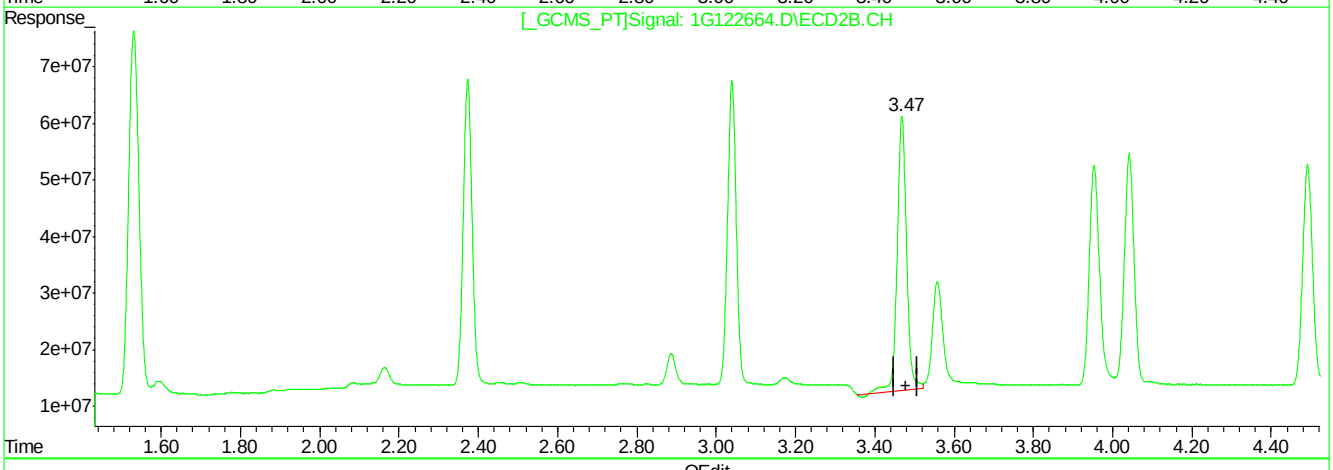
Parameter	CAS	Sig#	R.T. (min.)	Reason
gamma-BHC (Lindane)	58-89-9	2	3.47	Poor instrument integration
Methoxychlor	72-43-5	1	6.45	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD2B.CH
Acq On    : 5-2-16 05:13:54 PM                      Operator: dharas
Sample    : op93549-ms                              Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:34 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.50min 32.078PPB

response 73832284

(4) gamma-BHC #2 (MA)

3.47min 27.695PPB

response 787873852

(+) = Expected Retention Time

1G122664.D 1PST3973.M Tue May 03 12:34:57 2016 RPT1

9.4.1.2

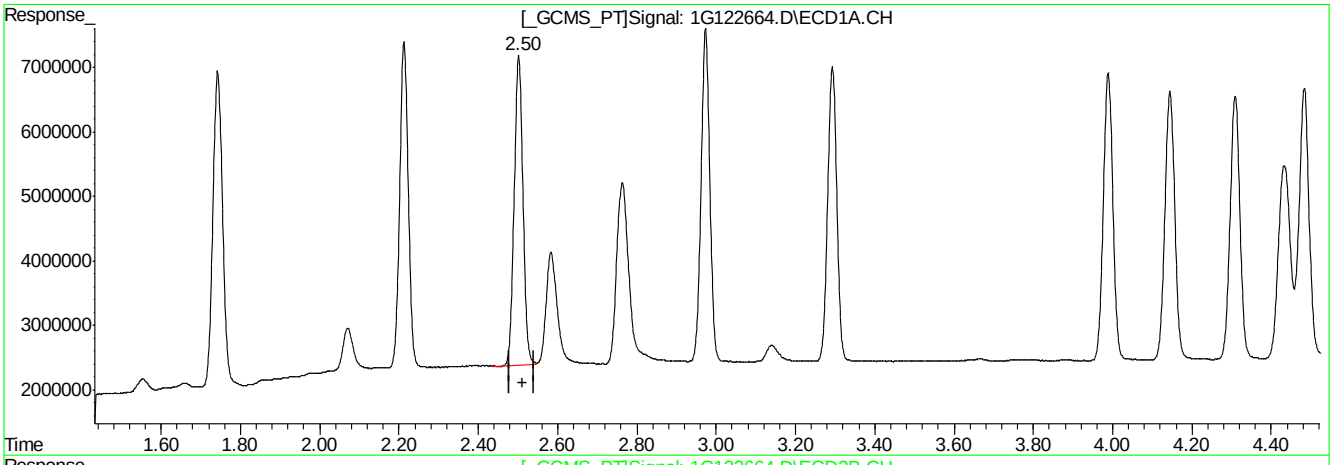
9

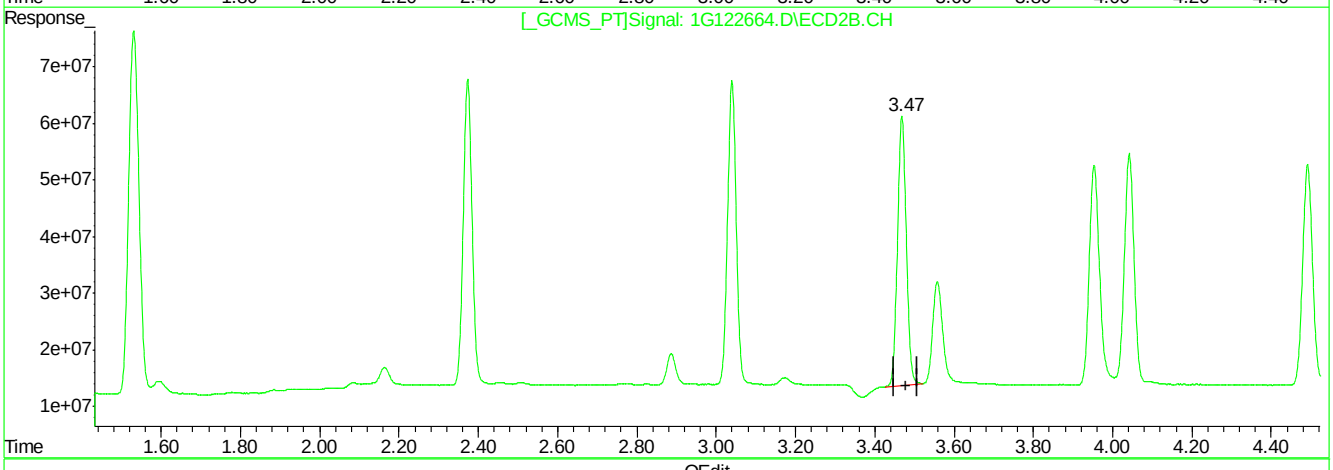
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD2B.CH
Acq On    : 5-2-16 05:13:54 PM                      Operator: dharas
Sample    : op93549-ms                              Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:34 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.50min 32.078PPB

response 73832284

(4) gamma-BHC #2 (MA)

3.47min 25.562PPB m

response 727217583

(+) = Expected Retention Time

1G122664.D 1PST3973.M Tue May 03 12:35:03 2016 RPT1

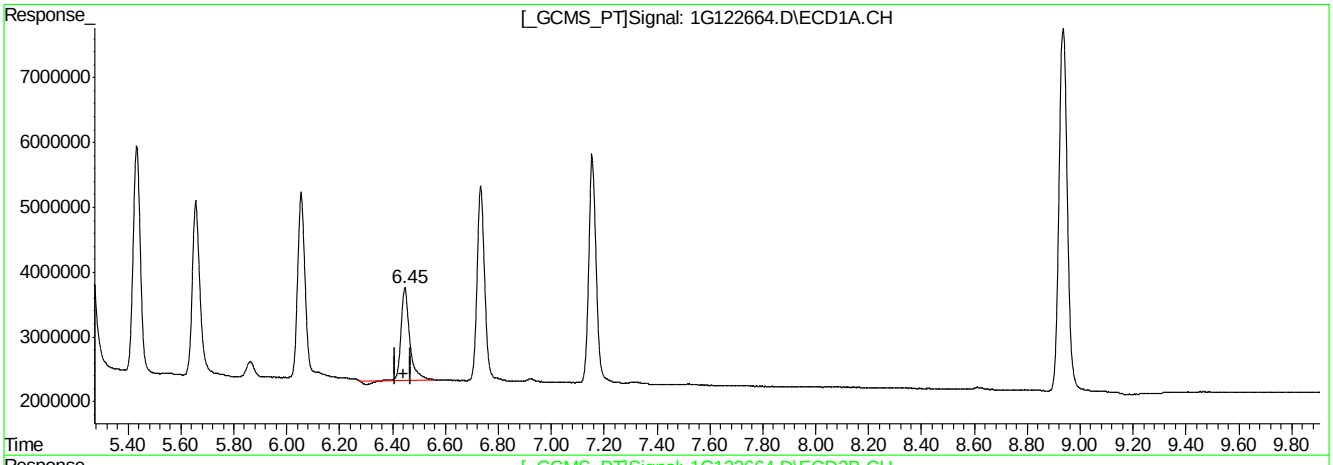
9.4.1.3

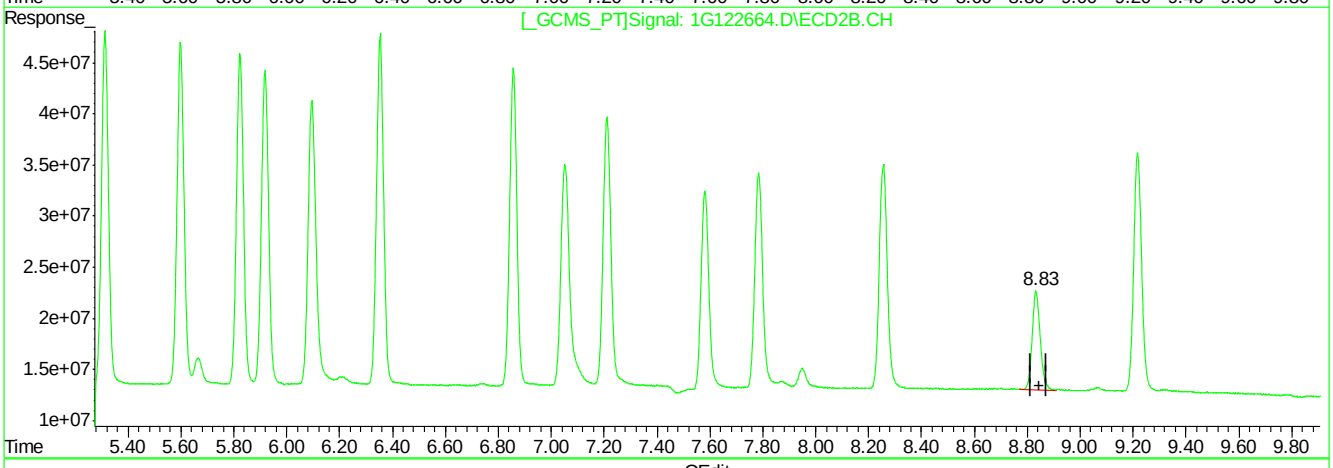
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD2B.CH
Acq On    : 5-2-16 05:13:54 PM                      Operator: dharas
Sample    : op93549-ms                              Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:34 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.45min 28.939PPB

response 31157936

(21) Methoxychlor #2 (A)

8.83min 28.770PPB

response 204388178

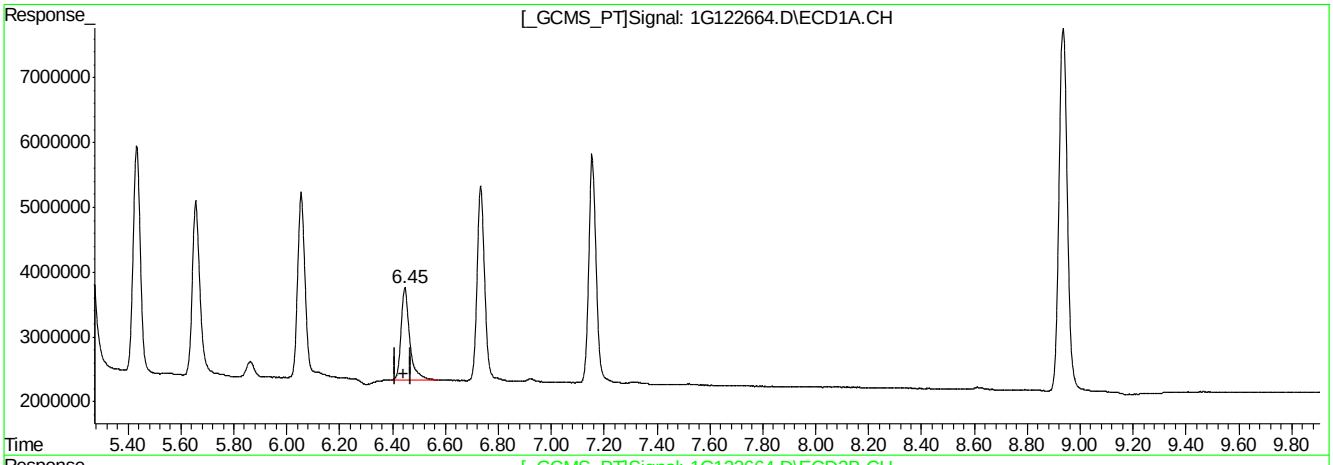
(+) = Expected Retention Time

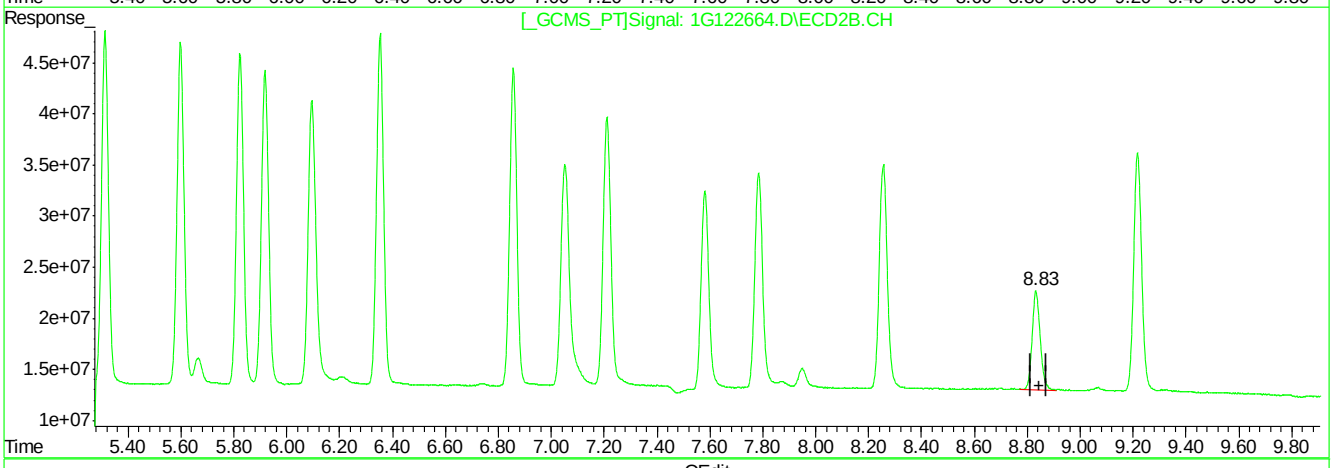
1G122664.D 1PST3973.M Tue May 03 12:35:15 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122664.D\ECD2B.CH
Acq On    : 5-2-16 05:13:54 PM                      Operator: dharas
Sample    : op93549-ms                              Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:34 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.45min 29.725PPB m

response 32005062

(21) Methoxychlor #2 (A)

8.83min 28.770PPB

response 204388178

(+) = Expected Retention Time

1G122664.D 1PST3973.M Tue May 03 12:35:23 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/03/16 13:15

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD2B.CH
Acq On : 5-2-16 05:31:35 PM Operator: dharas
Sample : op93549-msd Inst : GC1G
Misc : op93549,g1g3977,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 12:36 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.16	1.53	89839898	1187.6E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.16	1.53	89839898	1187.6E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.16	1.53	89839898	1187.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.74	2.37	68621595	692.0E6	36.453m	32.216
Spiked Amount	40.000	Range	30 - 150	Recovery	=	91.13%	80.54%
24) SA	Decachlorobiphen	8.93	10.86	112.8E6	533.7E6	33.931	42.601
Spiked Amount	40.000			Recovery	=	84.83%	106.50%
	Target Compounds						
3) A	alpha-BHC	2.21	3.04	78010827	837.6E6	33.760	25.738
4) MA	gamma-BHC	2.50	3.47	76558040	747.0E6	34.196	25.814m
5) MA	Heptachlor	2.97	4.04	81010307	706.4E6	33.077	27.734
6) B	beta-BHC	2.58	3.56	36193668	371.0E6	32.842	30.298
7) B	delta-BHC	2.76	3.95	63252851	722.0E6	33.330	26.758
8) MB	Aldrin	3.29	4.49	76333395	702.0E6	32.082	25.971
9) B	Heptachlor Epoxi	3.99	5.31	78306466	662.5E6	32.817	27.770
10) B	gamma-Chlordane	4.14	5.60	76504796	651.8E6	31.645	27.712
11) B	alpha-Chlordane	4.31	5.82	74198365	628.3E6	30.537	27.376
12) A	Endosulfan I	4.48	5.92	78380041	604.8E6	30.201	26.605
13) B	4,4'-DDE	4.43	6.09	66838887	601.5E6	34.071	26.459
14) MA	Dieldrin	4.80	6.35	78133947	665.2E6	33.168	27.627
15) MA	Endrin	5.11	6.86	78631992	617.5E6	36.355	28.981
16) A	4,4'-DDD	5.26	7.05	58923042	539.3E6	35.639	27.157
17) B	Endosulfan II	5.43	7.21	71483254	576.5E6	32.814	27.293
18) MA	4,4'-DDT	5.66	7.58	57590826	432.6E6	37.234	33.884
19) B	Endrin Aldehyde	6.06	7.78	61906951	459.4E6	34.083	30.230
20) B	Endosulfan Sulfa	6.73	8.26	62959625	491.7E6	31.133	28.665
21) A	Methoxychlor	6.44	8.83	34559826	223.0E6	32.999m	30.853
23) B	Endrin Ketone	7.16	9.22	73216847	523.4E6	36.487	32.943

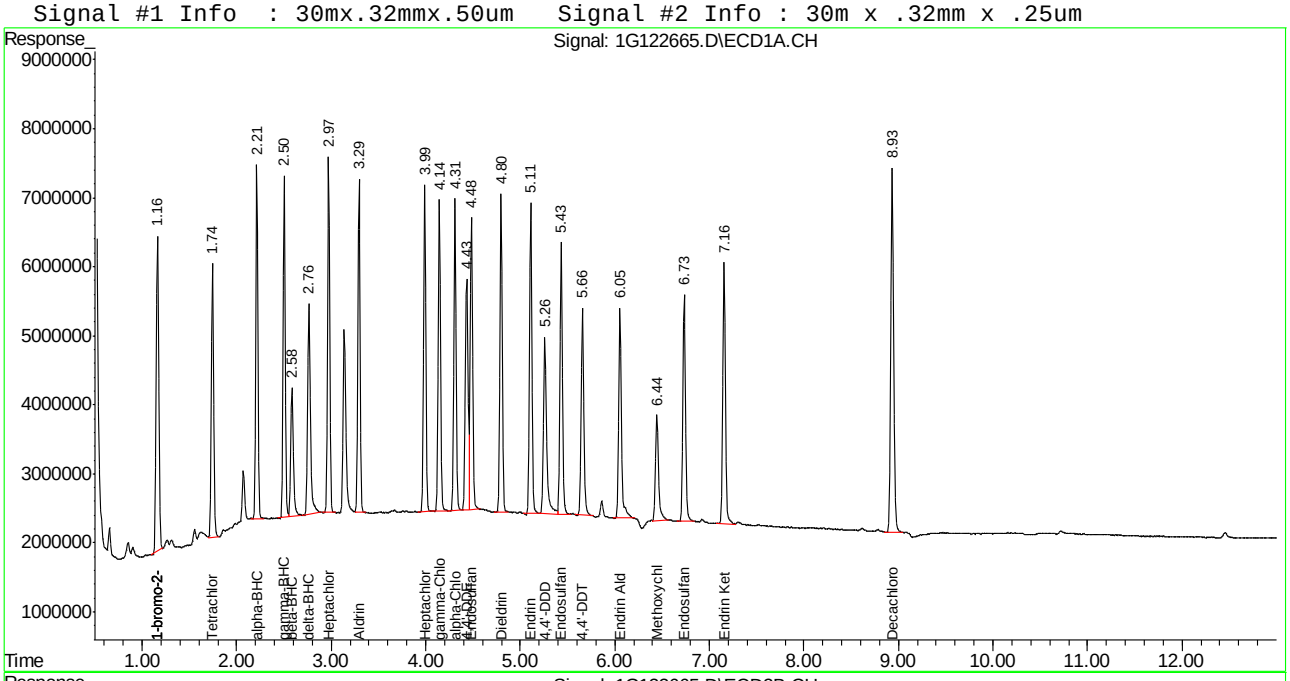
(f)=RT Delta > 1/2 Window (m)=manual int.

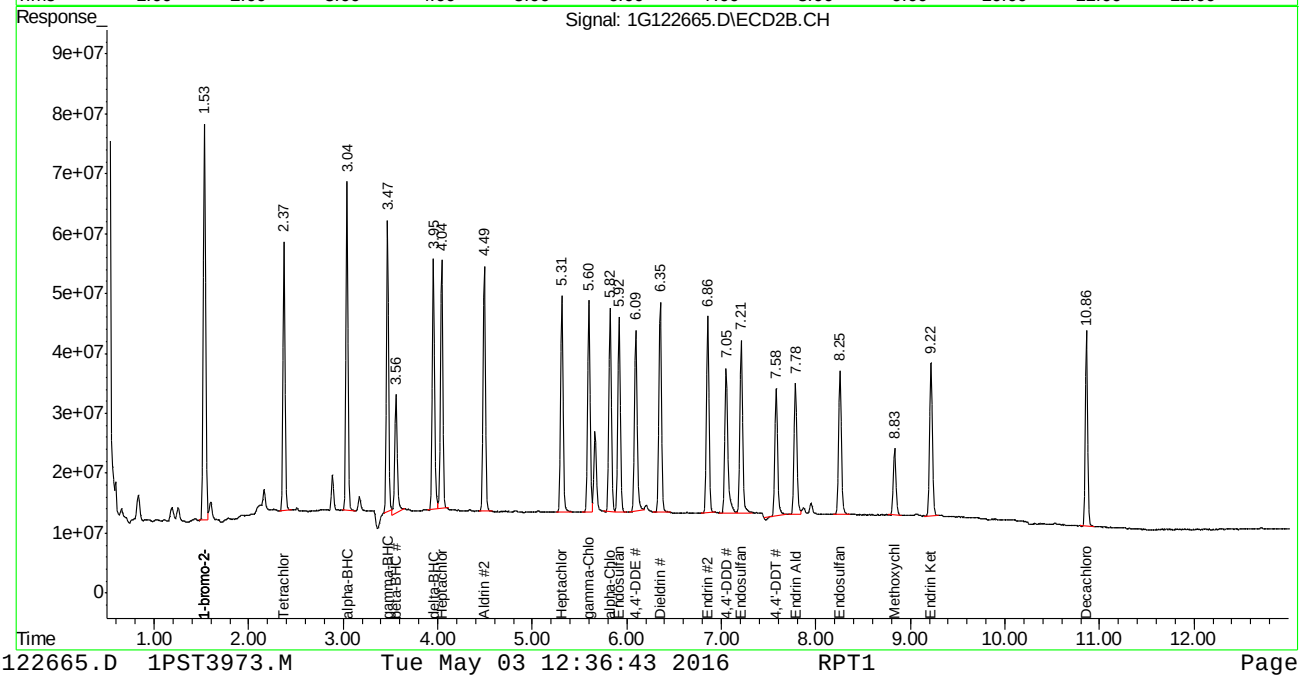
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD2B.CH
Acq On : 5-2-16 05:31:35 PM Operator: dharas
Sample : op93549-msd Inst : GC1G
Misc : op93549,g1g3977,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 12:36 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

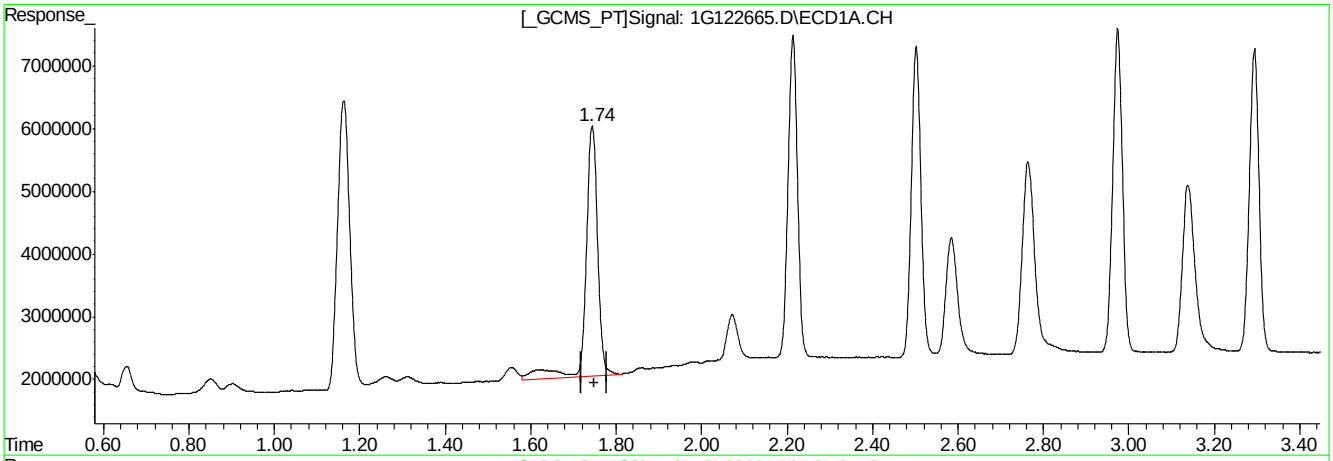
Sample Number:	OP93549-MSD	**Method:**	SW846 8081B
Lab FileID:	1G122665.D	**Analyst approved:**	05/03/16 12:39 Dhara Saparia
Injection Time:	05/02/16 17:31	**Supervisor approved:**	05/03/16 13:15 Gwendolyn Burns

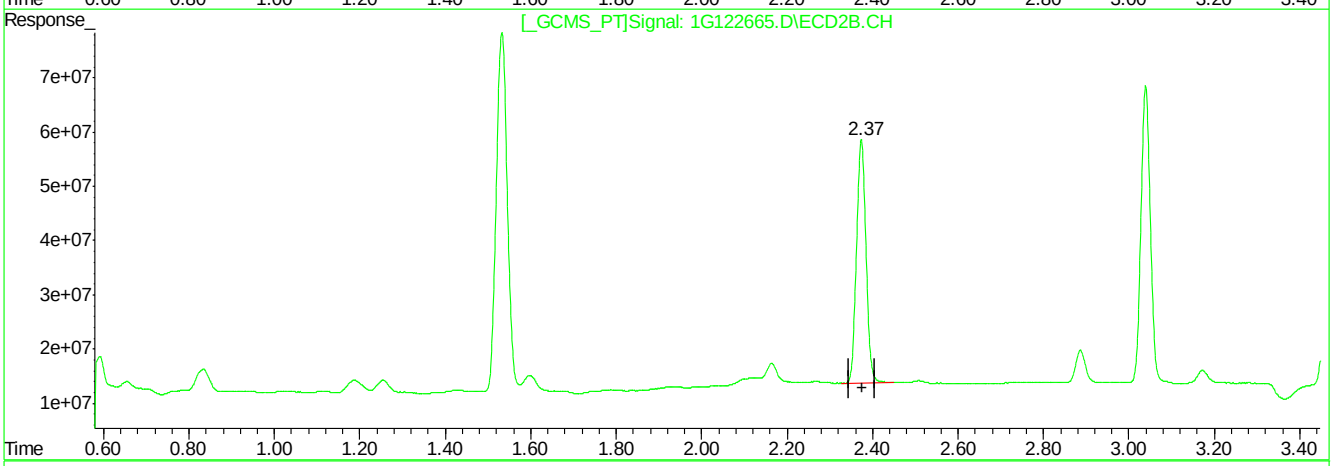
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.74	Poor instrument integration
gamma-BHC (Lindane)	58-89-9	2	3.47	Poor instrument integration
Methoxychlor	72-43-5	1	6.44	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD2B.CH
Acq On    : 5-2-16 05:31:35 PM                      Operator: dharas
Sample    : op93549-msd                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:35 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.74min 40.760PPB

response 76730643

(2) Tetrachloro-m-xylene #2 (SAB)

2.37min 32.216PPB

response 691974984

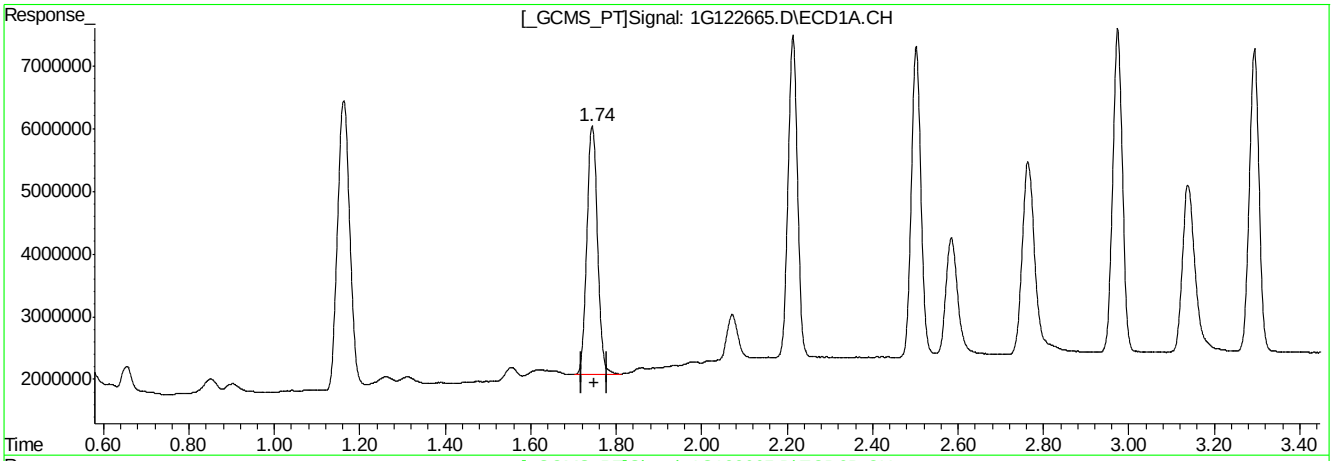
(+) = Expected Retention Time

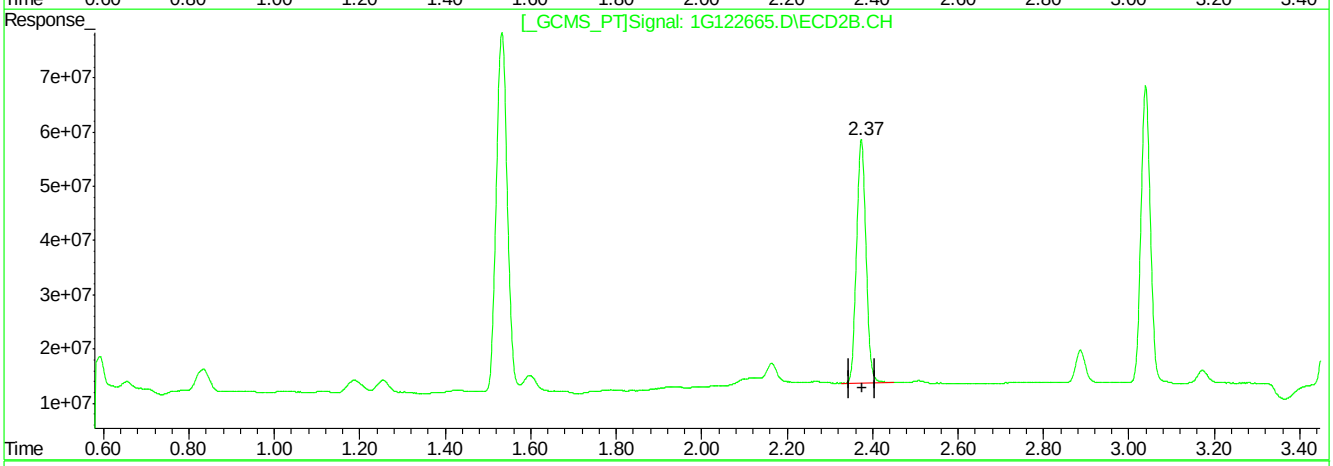
1G122665.D 1PST3973.M Tue May 03 12:35:52 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD2B.CH
Acq On    : 5-2-16 05:31:35 PM                      Operator: dharas
Sample    : op93549-msd                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:35 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.74min 36.453PPB m

response 68621595

(2) Tetrachloro-m-xylene #2 (SAB)

2.37min 32.216PPB

response 691974984

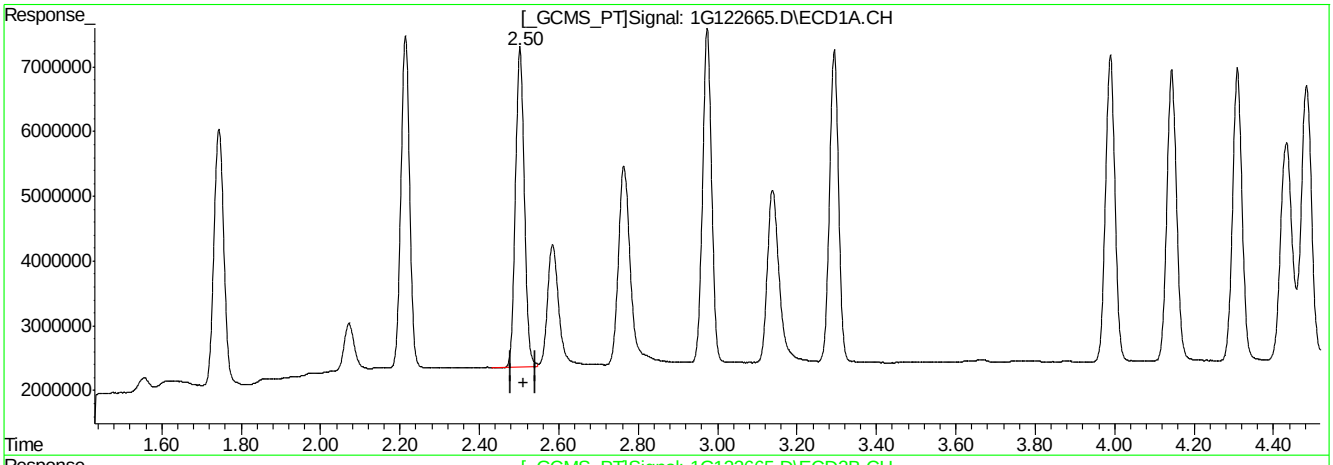
(+) = Expected Retention Time

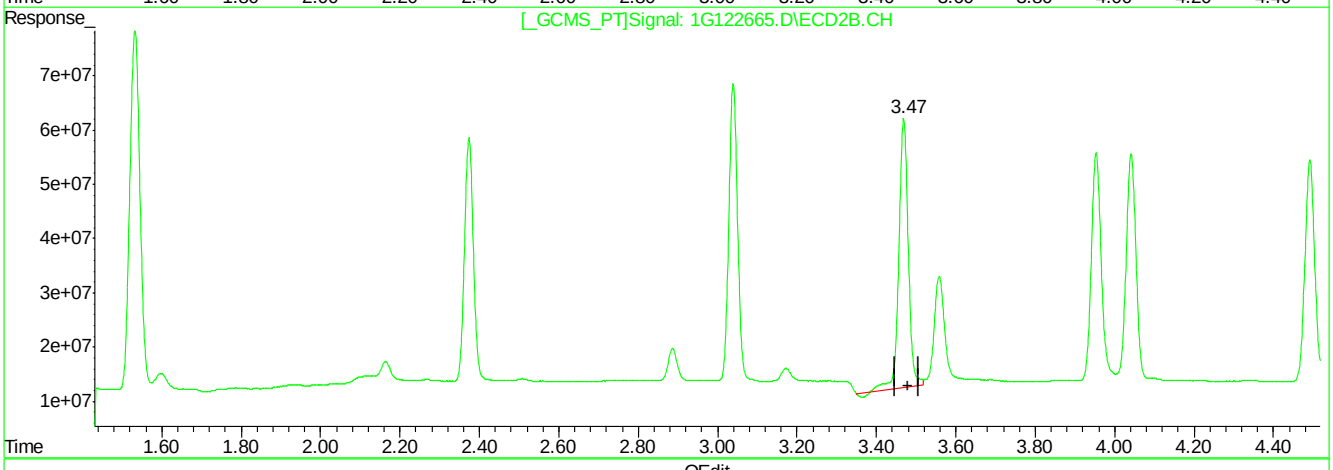
1G122665.D 1PST3973.M Tue May 03 12:35:58 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD2B.CH
Acq On    : 5-2-16 05:31:35 PM                      Operator: dharas
Sample    : op93549-msd                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:35 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.50min 34.196PPB

response 76558040

(4) gamma-BHC #2 (MA)

3.47min 28.233PPB

response 817003470

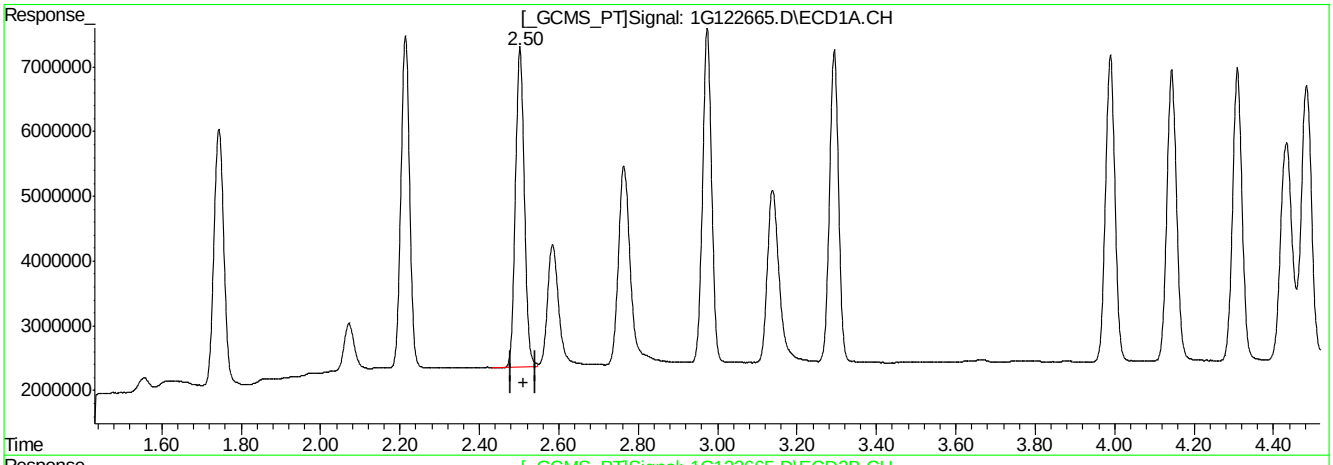
(+) = Expected Retention Time

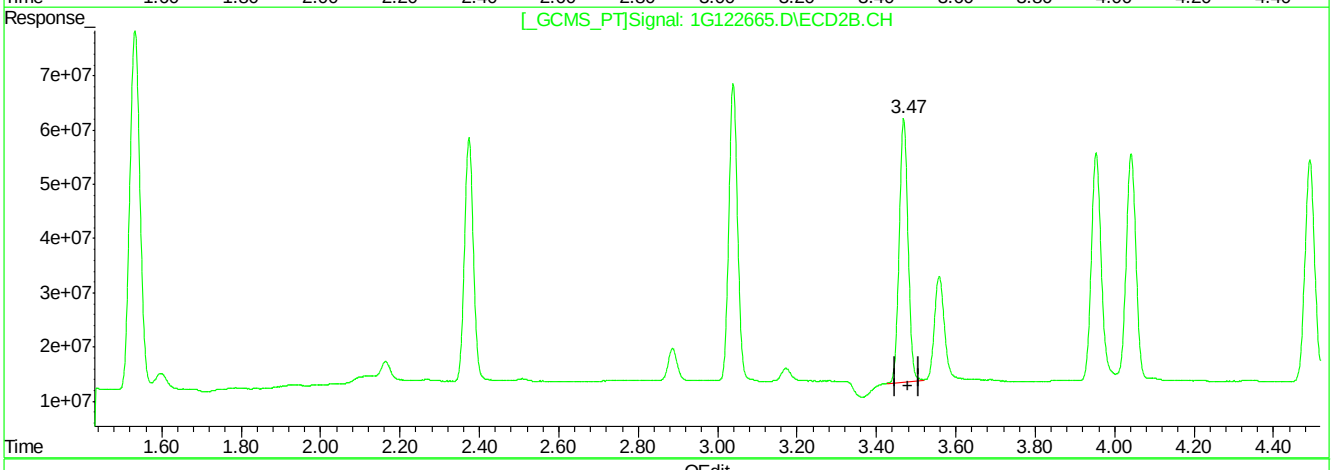
1G122665.D 1PST3973.M Tue May 03 12:36:02 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD2B.CH
Acq On    : 5-2-16 05:31:35 PM                      Operator: dharas
Sample    : op93549-msd                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:35 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.50min 34.196PPB

response 76558040

(4) gamma-BHC #2 (MA)

3.47min 25.814PPB m

response 747010412

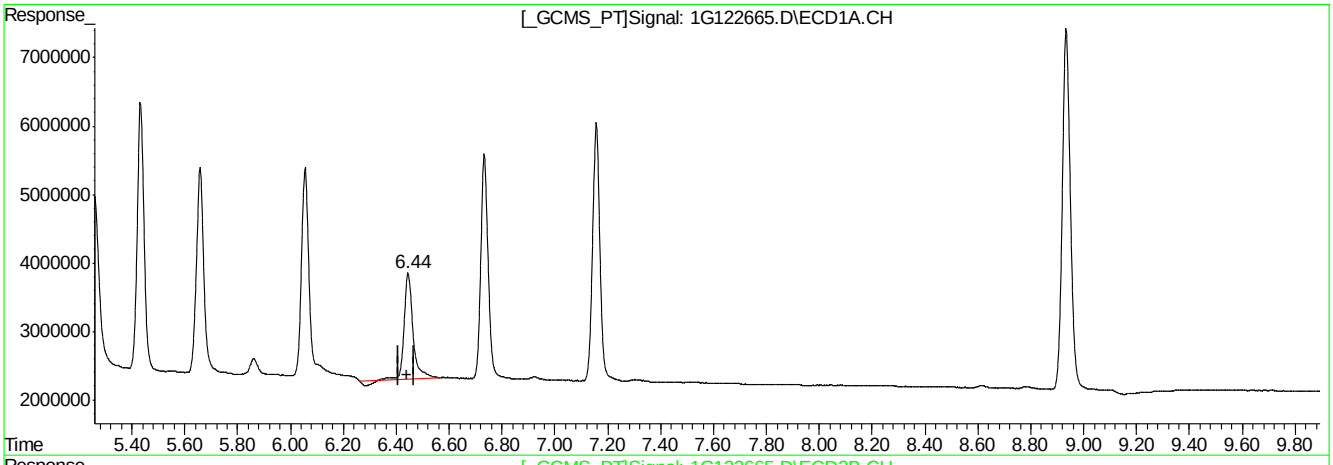
(+) = Expected Retention Time

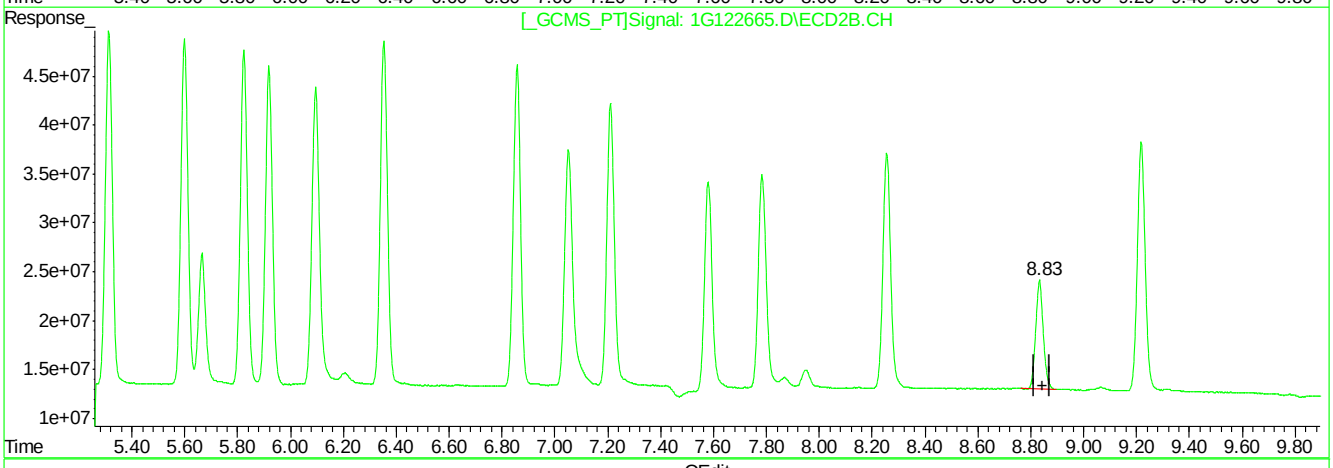
1G122665.D 1PST3973.M Tue May 03 12:36:08 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD2B.CH
Acq On    : 5-2-16 05:31:35 PM                      Operator: dharas
Sample    : op93549-msd                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:35 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.44min 33.565PPB

response 35152868

(21) Methoxychlor #2 (A)

8.83min 30.853PPB

response 222953855

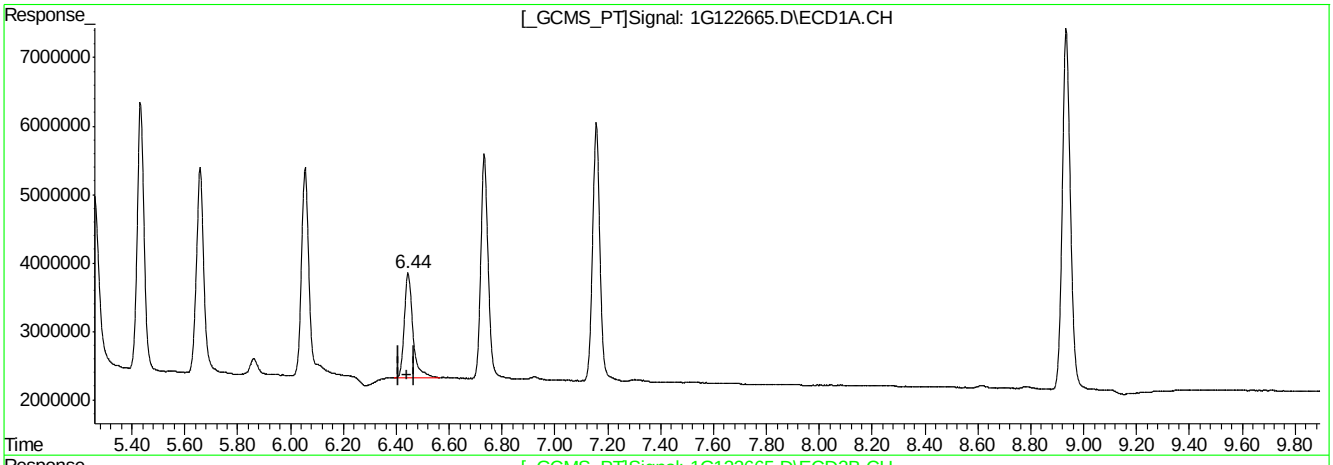
(+) = Expected Retention Time

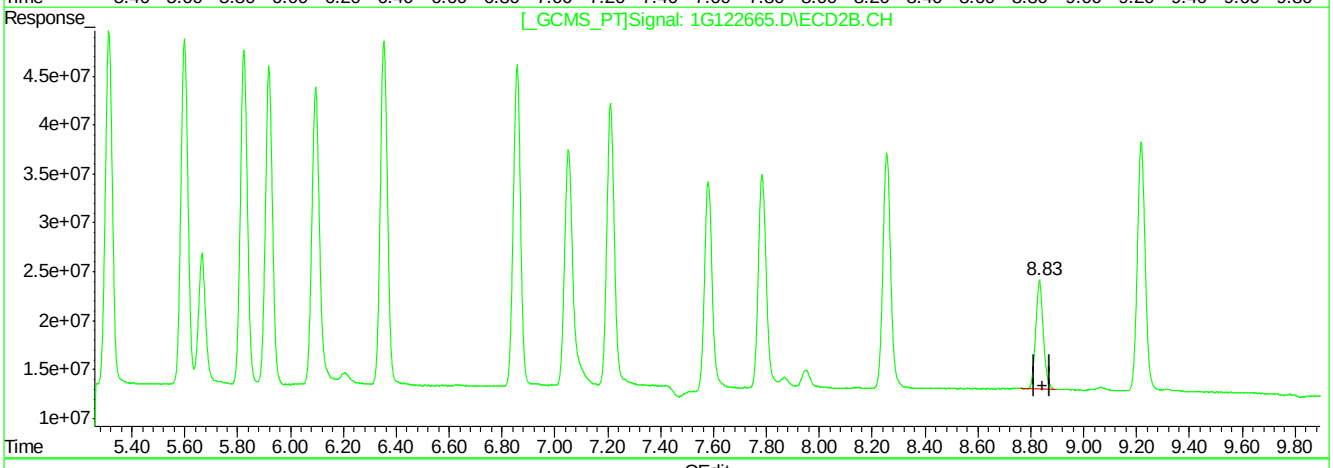
1G122665.D 1PST3973.M Tue May 03 12:36:19 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122665.D\ECD2B.CH
Acq On    : 5-2-16 05:31:35 PM                      Operator: dharas
Sample    : op93549-msd                             Inst    : GC1G
Misc      : op93549,g1g3977,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 12:35 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.44min 32.999PPB m

response 34559826

(21) Methoxychlor #2 (A)

8.83min 30.853PPB

response 222953855

(+) = Expected Retention Time

1G122665.D 1PST3973.M Tue May 03 12:36:26 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/09/16 07:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67998.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 9:16 pm
Operator : dharas
Sample : op93683-ms
Misc : op93683,g4g1782,16.4,,,10,1
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:41:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Sat May 07 16:37:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.808	2.070	431.7E6	414.7E6	50.000	50.000	
25) I	1-bromo-2...	1.808	2.070	431.7E6	414.7E6	50.000	50.000	
31) I	1-bromo-2...	1.808	2.070	431.7E6	414.7E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.595	3.104	313.2E6	269.2E6	42.079	36.858	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 105.20%	92.14%	
24) SA	Decachlor...	10.247	11.643	340.2E6	213.5E6	48.501	41.217	
	Spiked Amount	40.000			Recovery	= 121.25%	103.04%	
	Target Compounds							
3) A	alpha-BHC	3.158	3.865	230.0E6	225.4E6	22.584	21.116	
4) MA	gamma-BHC	3.506	4.344	208.2E6	205.2E6	23.380	21.625	
5) MA	Heptachlor	3.846	4.969	166.9E6	217.8E6	19.966	22.282	
6) B	beta-BHC	3.630	4.442	100.1E6	104.3E6	23.460	24.278	
7) B	delta-BHC	4.059	4.873	195.1E6	181.1E6	24.049	20.447	
8) MB	Aldrin	4.433	5.455	207.7E6	213.2E6	24.344	22.142	
9) B	Heptachlo...	5.198	6.317	197.8E6	201.2E6	25.945	23.132	
10) B	gamma-Chl...	5.380	6.614	204.3E6	188.1E6	26.804	22.379	
11) B	alpha-Chl...	5.560	6.847	197.4E6	196.0E6	24.035	23.217	
12) A	Endosulfan I	5.744	6.953	377.1E6	185.9E6	44.627	23.061	#
13) B	4,4'-DDE	5.744f	7.107	377.1E6	198.2E6	49.498	23.545	#
14) MA	Dieldrin	6.084	7.399	206.0E6	202.8E6	25.708	24.127	
15) MA	Endrin	6.422	7.920	189.5E6	173.1E6	24.850	23.108	
16) A	4,4'-DDD	6.597	8.083	157.8E6	157.3E6	24.437	23.132	
17) B	Endosulfa...	6.766	8.279	213.5E6	176.2E6	29.093	23.793	
18) MA	4,4'-DDT	7.007	8.624	101.4E6	135.5E6	21.998	22.785	
19) B	Endrin Al...	7.403	8.855	154.5E6	136.2E6	24.940	24.212	
20) B	Endosulfa...	8.096	9.332	171.6E6	140.0E6	25.500	22.583	
21) A	Methoxychlor	7.827	9.834	60511210	70456648	21.040	21.807	
23) B	Endrin Ke...	8.559	10.192	204.2E6	166.4E6	26.244	24.463m	
	SemiQuant Compounds - Not Calibrated on this Instrument							

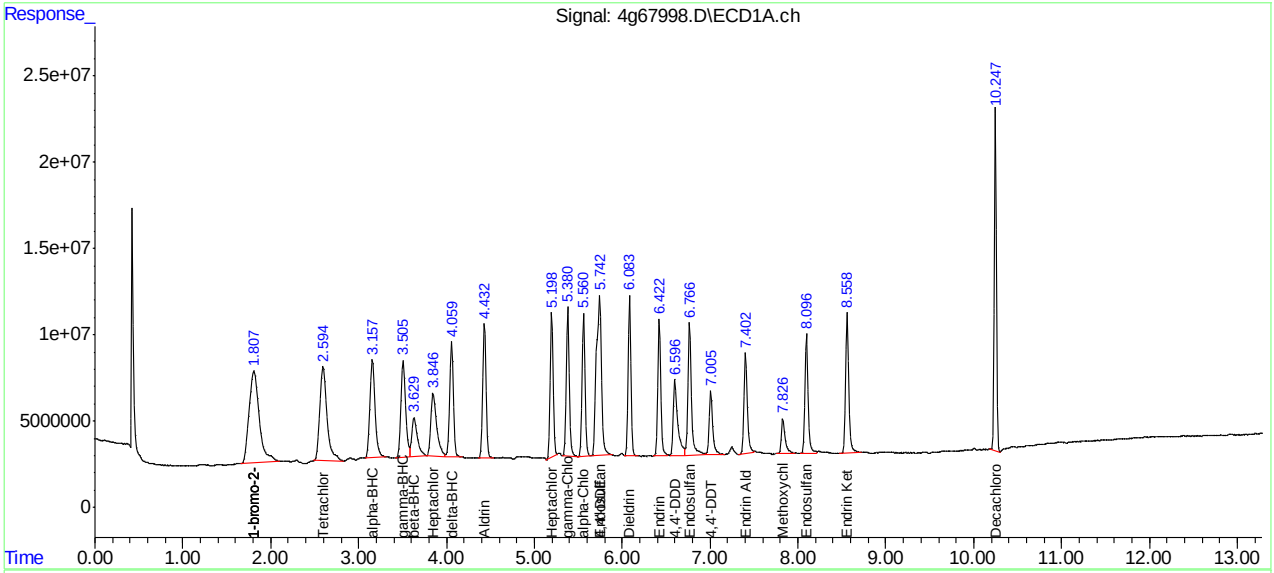
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

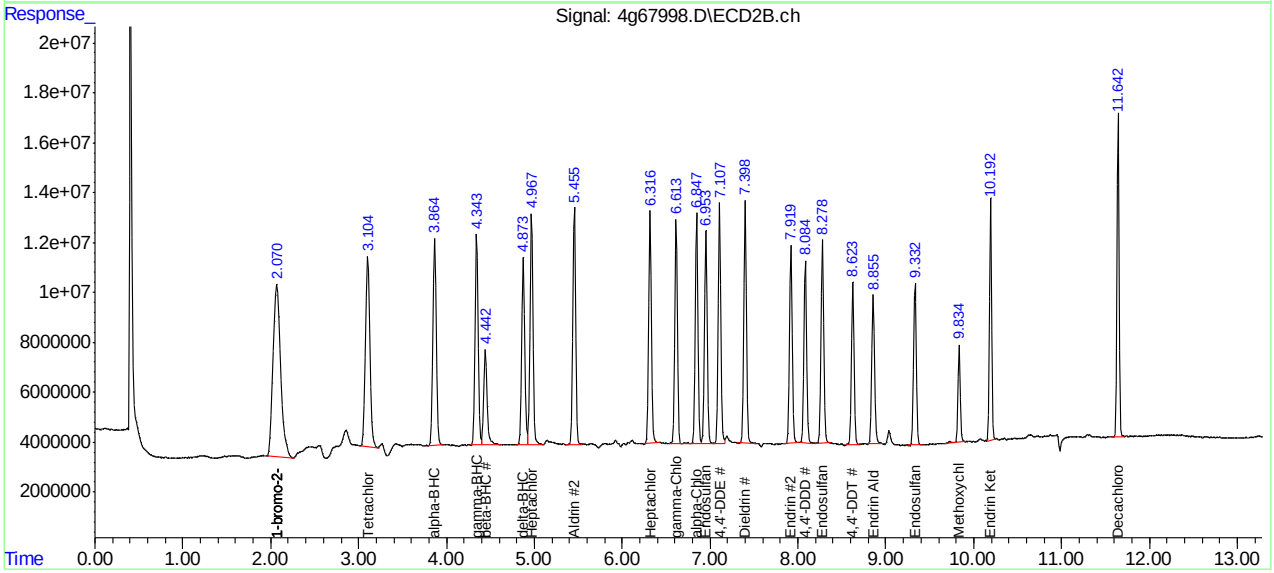
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67998.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 9:16 pm
Operator : dharas
Sample : op93683-ms
Misc : op93683,g4g1782,16.4,,,10,1
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:41:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Sat May 07 16:37:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC19423

Manual Integration Approval Summary

Sample Number:	OP93683-MS	**Method:**	SW846 8081B
Lab FileID:	4G67998.D	**Analyst approved:**	05/07/16 16:59 Brittany Piercy
Injection Time:	05/06/16 21:16	**Supervisor approved:**	05/09/16 07:19 Gwendolyn Burns

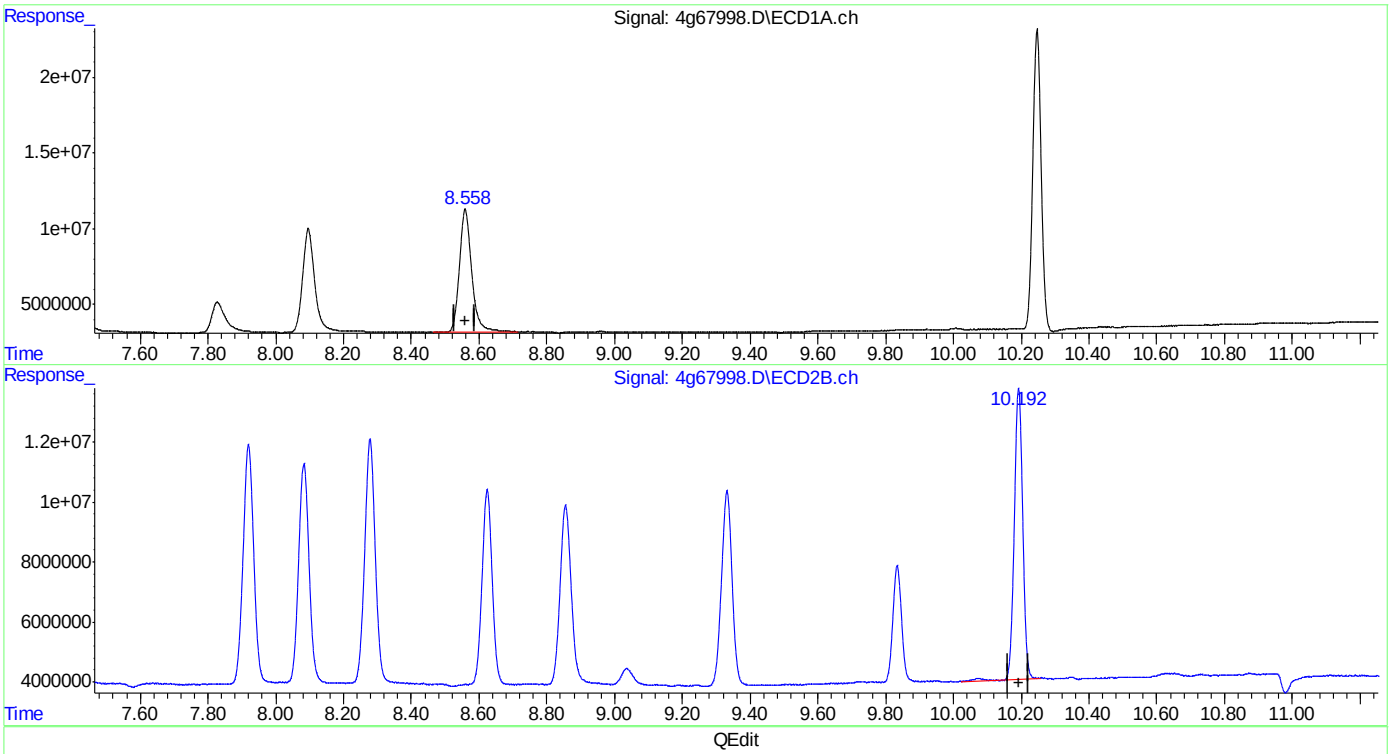
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin ketone	53494-70-5	2	10.19	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67998.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 9:16 pm
Operator : dharas
Sample : op93683-ms
Misc : op93683,g4g1782,16.4,,,10,1
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:41:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Sat May 07 16:37:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(23) Endrin Ketone (B)
8.559min 26.244 PPB
response 204184252

(23) Endrin Ketone #2 (B)
10.192min 24.467 PPB
response 166475588

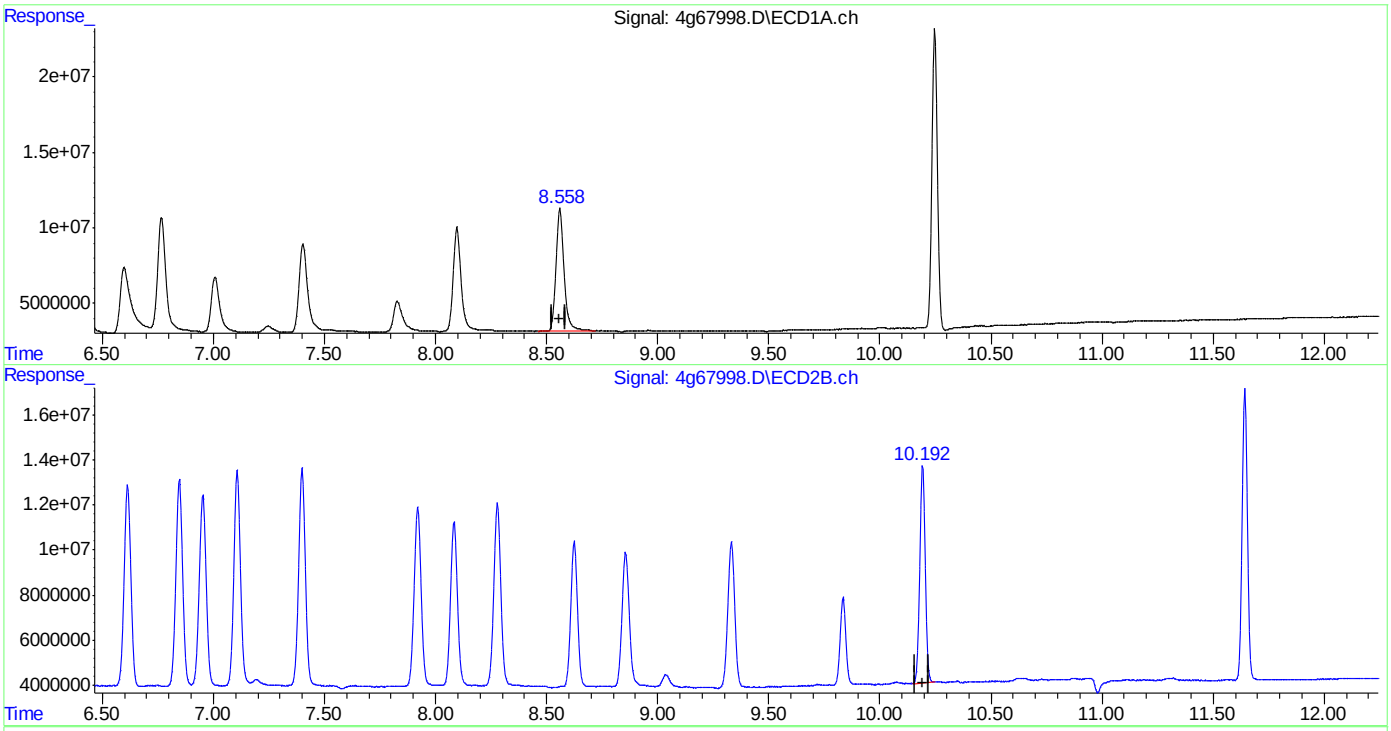
(+) = Expected Retention Time
4PST1778.M Sat May 07 16:41:25 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67998.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 9:16 pm
Operator : dharas
Sample : op93683-ms
Misc : op93683,g4g1782,16.4,,,10,1
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:41:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Sat May 07 16:37:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(23) Endrin Ketone (B)
8.559min 26.244 PPB
response 204184252

(23) Endrin Ketone #2 (B)
10.192min 24.463 PPB m
response 166447511

(+) = Expected Retention Time
4PST1778.M Sat May 07 16:41:30 2016 RPT1

SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67999.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 9:31 pm
Operator : dharas
Sample : op93683-msd
Misc : op93683,g4g1782,16.5,,,10,1
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:43:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Sat May 07 16:37:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.811	2.071	422.3E6	405.0E6	50.000	50.000	
25) I	1-bromo-2...	1.811	2.071	422.3E6	405.0E6	50.000	50.000	
31) I	1-bromo-2...	1.811	2.071	422.3E6	405.0E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.600	3.108	265.0E6	225.4E6	36.386	31.597	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 90.97%	78.99%	
24) SA	Decachlor...	10.247	11.645	288.1E6	179.6E6	41.984	35.498	
	Spiked Amount	40.000			Recovery	= 104.96%	88.74%	
	Target Compounds							
3) A	alpha-BHC	3.158	3.866	177.5E6	173.8E6	17.816	16.664	
4) MA	gamma-BHC	3.509	4.345	160.7E6	157.6E6	18.440	17.006	
5) MA	Heptachlor	3.847	4.970	121.4E6	168.2E6	14.841	17.618	
6) B	beta-BHC	3.633	4.443	75806241	78083451	18.163	18.605	
7) B	delta-BHC	4.061	4.875	144.8E6	137.8E6	18.247	15.930	
8) MB	Aldrin	4.433	5.456	162.2E6	170.9E6	19.433	18.167	
9) B	Heptachlo...	5.201	6.318	157.9E6	158.3E6	21.169	18.633	
10) B	gamma-Chl...	5.382	6.616	155.7E6	153.4E6	20.880	18.689	
11) B	alpha-Chl...	5.563	6.848	135.1E6	151.1E6	16.808	18.336	
12) A	Endosulfan I	5.746	6.953	198.1E6	143.9E6	23.967	18.286	
13) B	4,4'-DDE	5.708	7.108	86826030	151.6E6	11.648	18.445	#
14) MA	Dieldrin	6.086	7.400	161.6E6	159.2E6	20.614	19.390	
15) MA	Endrin	6.423	7.921	146.4E6	134.9E6	19.612	18.442	
16) A	4,4'-DDD	6.598	8.084	122.6E6	121.2E6	19.403	18.237	
17) B	Endosulfa...	6.767	8.279	166.2E6	138.6E6	23.141	19.161	
18) MA	4,4'-DDT	7.008	8.624	74558287	104.8E6	17.124	18.040	
19) B	Endrin Al...	7.404	8.856	121.0E6	107.9E6	19.967	19.646	
20) B	Endosulfa...	8.098	9.332	134.1E6	110.5E6	20.377	18.248	
21) A	Methoxychlor	7.829	9.835	45659722	53986761	16.227	17.108	
23) B	Endrin Ke...	8.560	10.192	153.6E6	131.2E6	20.183	19.741	

SemiQuant Compounds - Not Calibrated on this Instrument

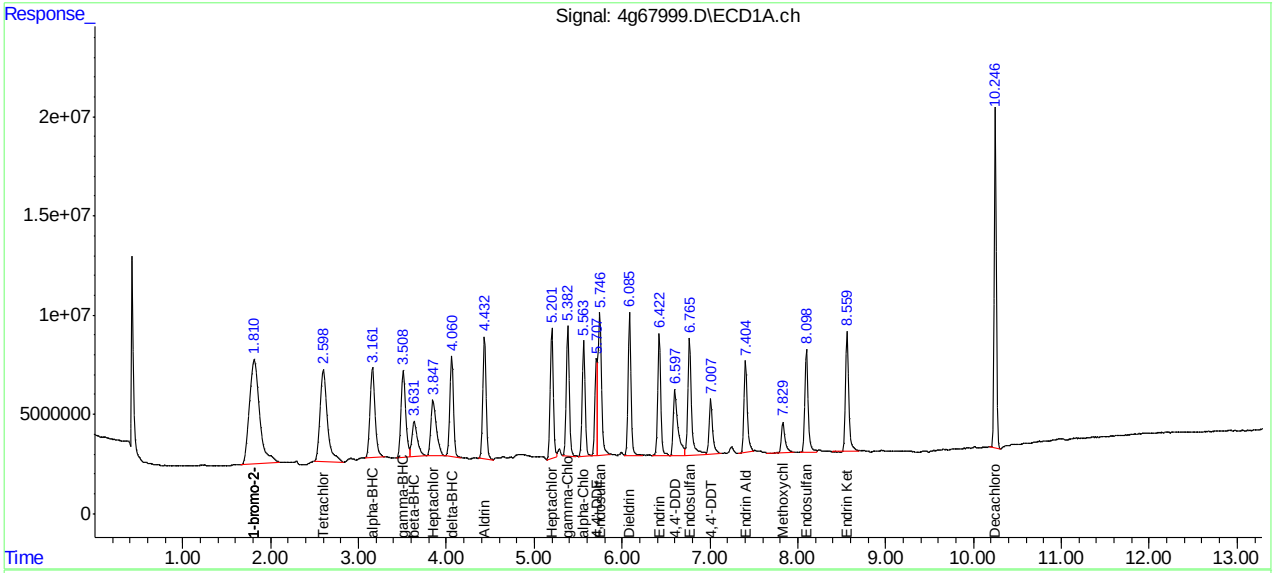
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

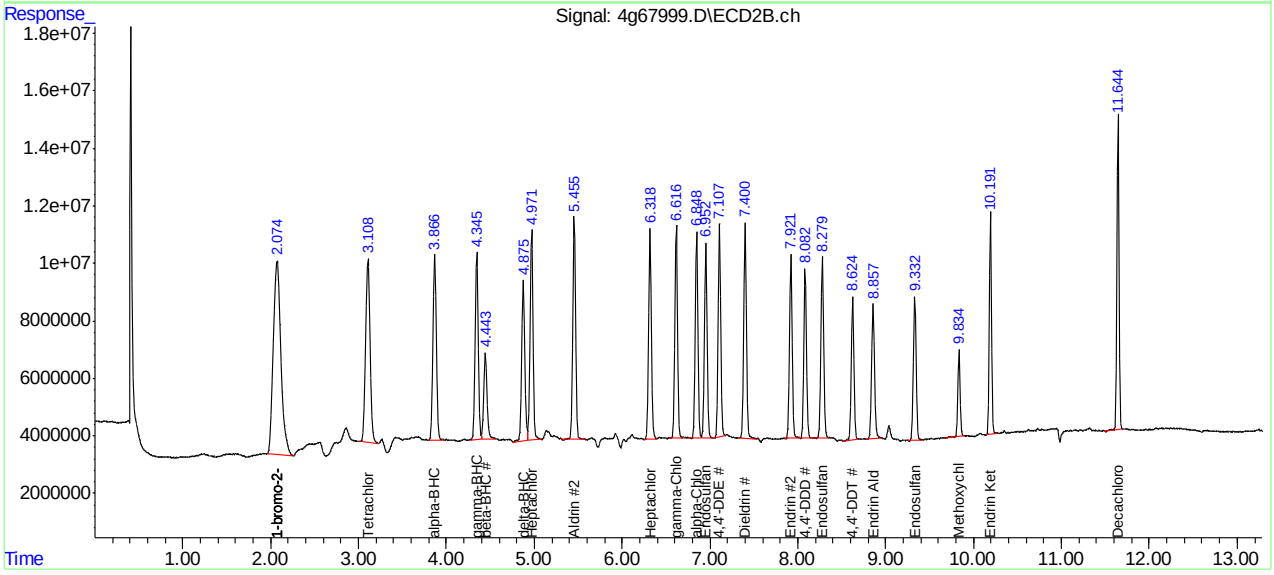
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67999.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 9:31 pm
Operator : dharas
Sample : op93683-msd
Misc : op93683,g4g1782,16.5,,,10,1
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:43:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Sat May 07 16:37:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD2B.CH
Acq On : 27 Apr 2016 11:07 am Operator: dharas
Sample : ddt Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:30 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	55109470	880.9E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.17	1.54	55109470	880.9E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.17	1.54	55109470	880.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.37	24913019	352.5E6	21.574	22.126
Spiked Amount	40.000	Range	30 - 150	Recovery	=	53.94%	55.32%
24) SA	Decachlorobiphen	8.93	10.86	45257835	201.1E6	22.196	21.639
Spiked Amount	40.000			Recovery	=	55.49%	54.10%
	Target Compounds						
13) B	4,4'-DDE	4.43	6.10	1476894	23701943	1.227m	1.405
15) MA	Endrin	5.11	6.86	76410964	809.6E6	57.592	51.218
16) A	4,4'-DDD	5.26	7.05	2975832	57489674	2.934	3.903m
18) MA	4,4'-DDT	5.65	7.58	138.3E6	1188.2E6	145.805	125.458
19) B	Endrin Aldehyde	6.06	7.79	1027311	9780845	0.922m	0.868m
23) B	Endrin Ketone	7.15	9.22	4226912	46926445	3.434	3.981

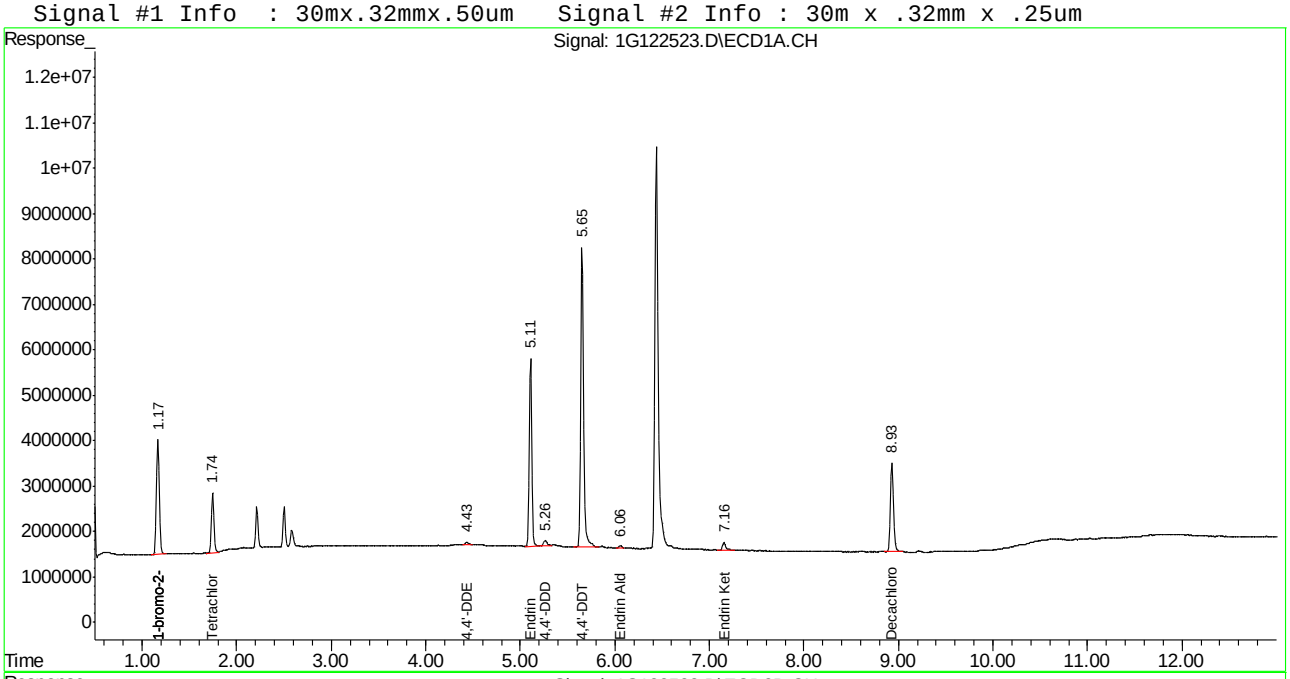
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122523.D 1PST3973.M Wed Apr 27 16:31:01 2016 RPT1 Page 1

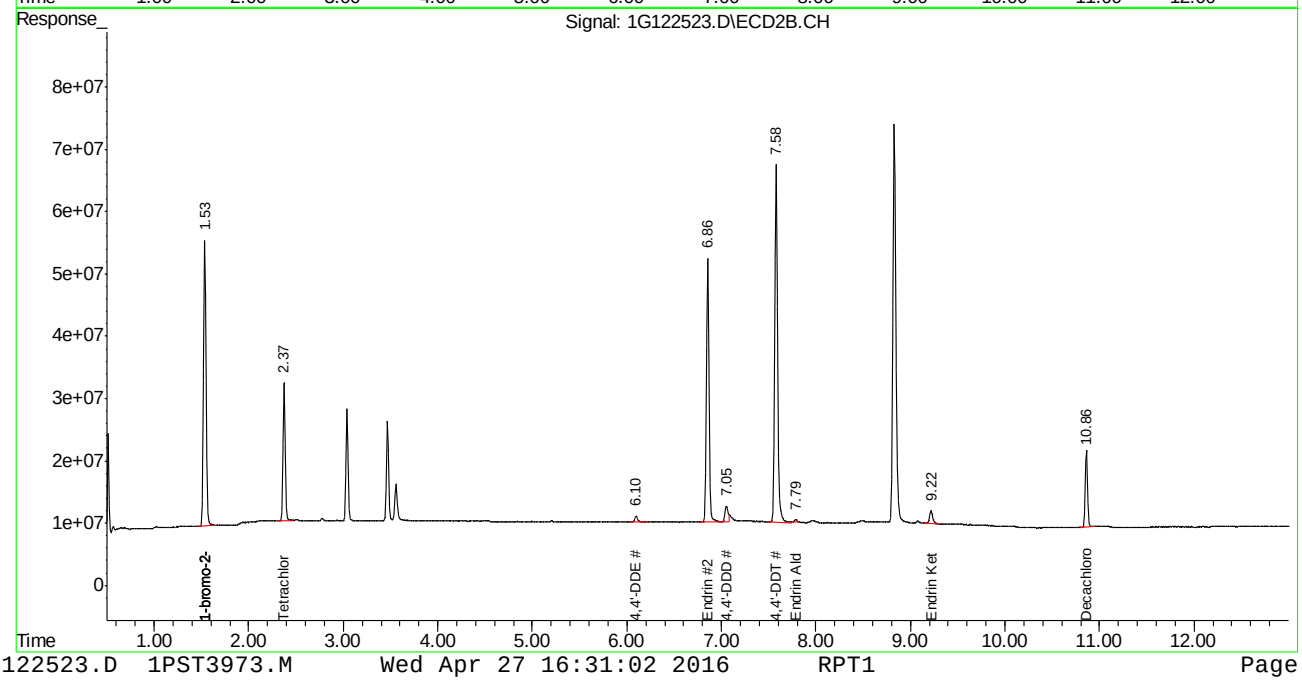
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD2B.CH
Acq On : 27 Apr 2016 11:07 am Operator: dharas
Sample : ddt Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:30 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

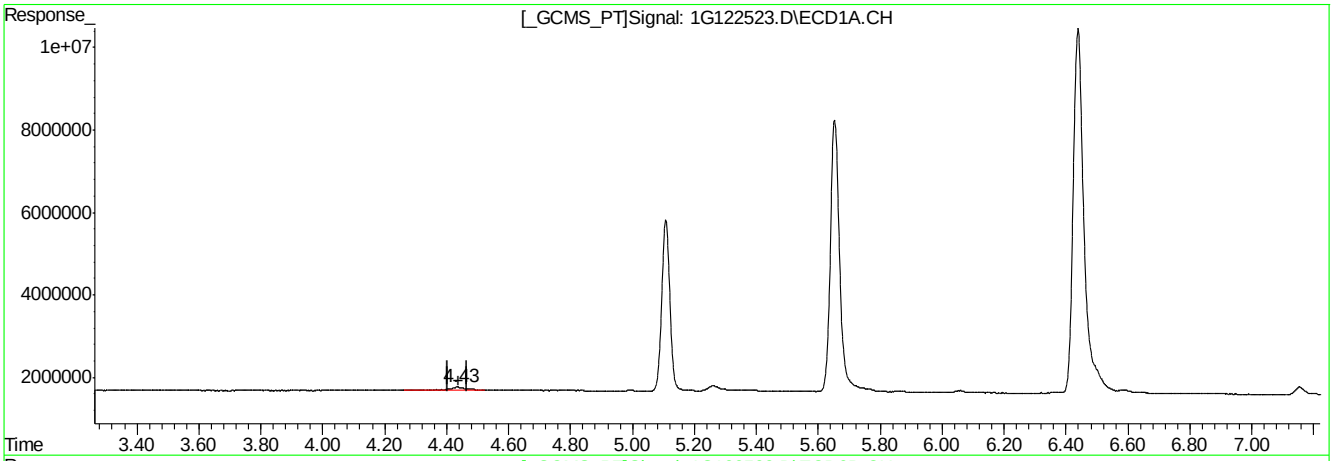
Sample Number:	G1G3973-DDT	**Method:**	SW846 8081B
Lab FileID:	1G122523.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 11:07	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

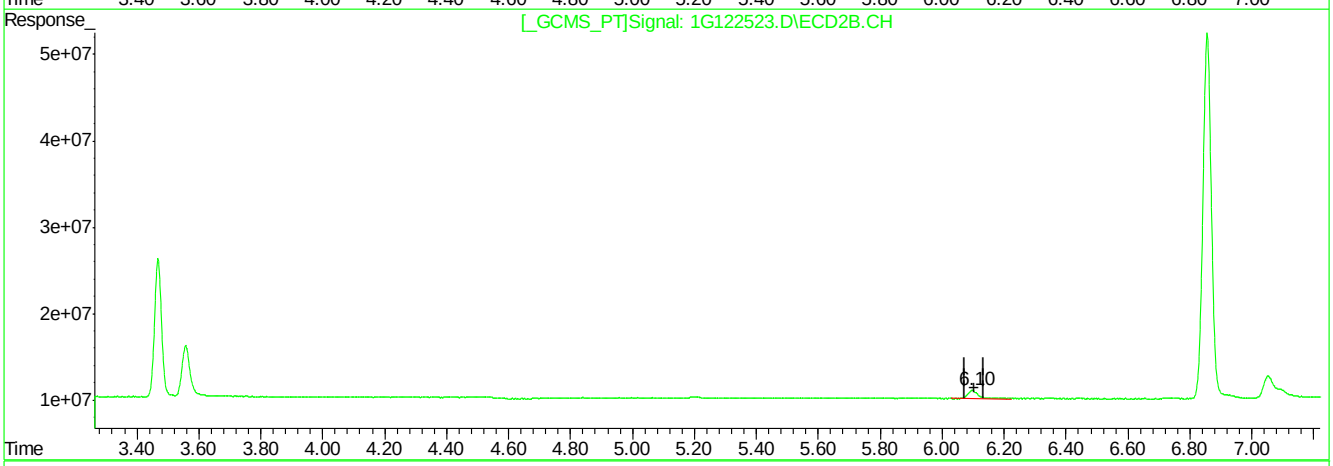
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.43	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.06	Poor instrument integration
4,4'-DDD	72-54-8	2	7.05	Poor instrument integration
Endrin aldehyde	7421-93-4	2	7.79	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:07 am                    Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:28 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.43min 1.940PPB

response 2334202

(13) 4,4'-DDE #2 (B)

6.10min 1.405PPB

response 23701943

(+) = Expected Retention Time

1G122523.D 1PST3973.M Wed Apr 27 16:29:48 2016 RPT1

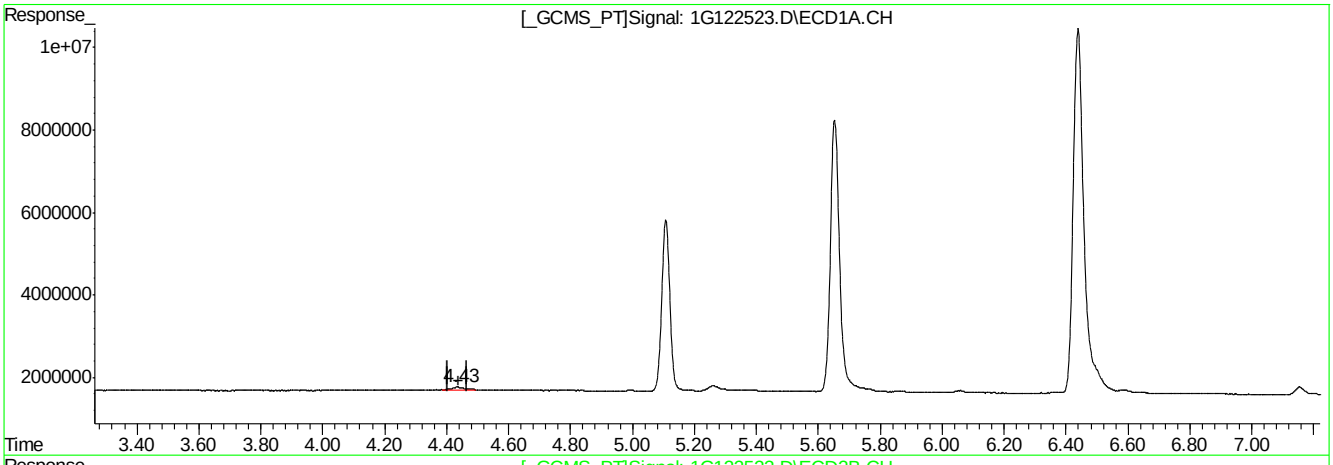
9.5.1.2

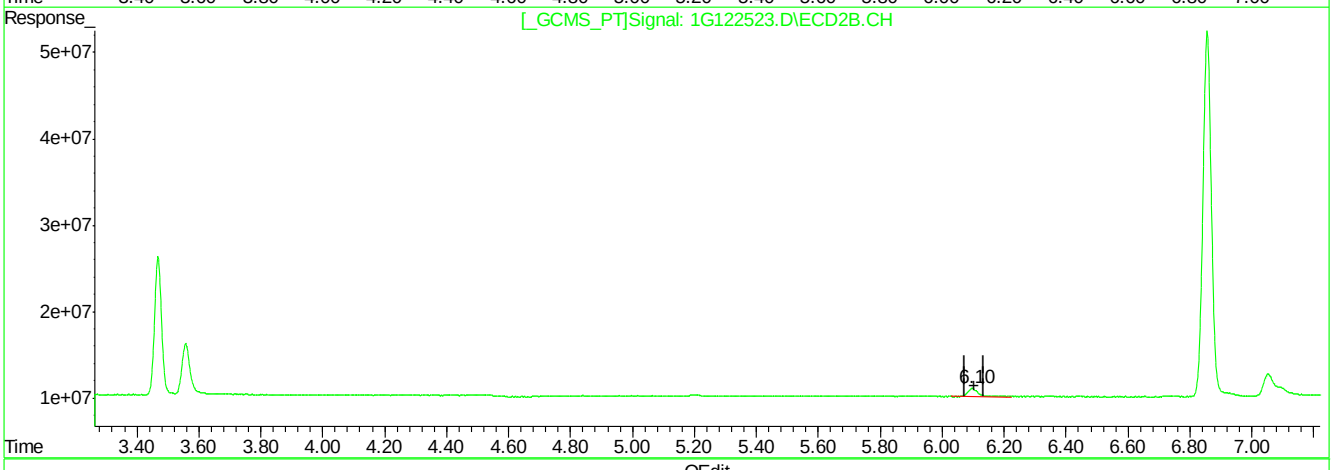
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:07 am                    Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:28 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.43min 1.227PPB m

response 1476894

(13) 4,4'-DDE #2 (B)

6.10min 1.405PPB

response 23701943

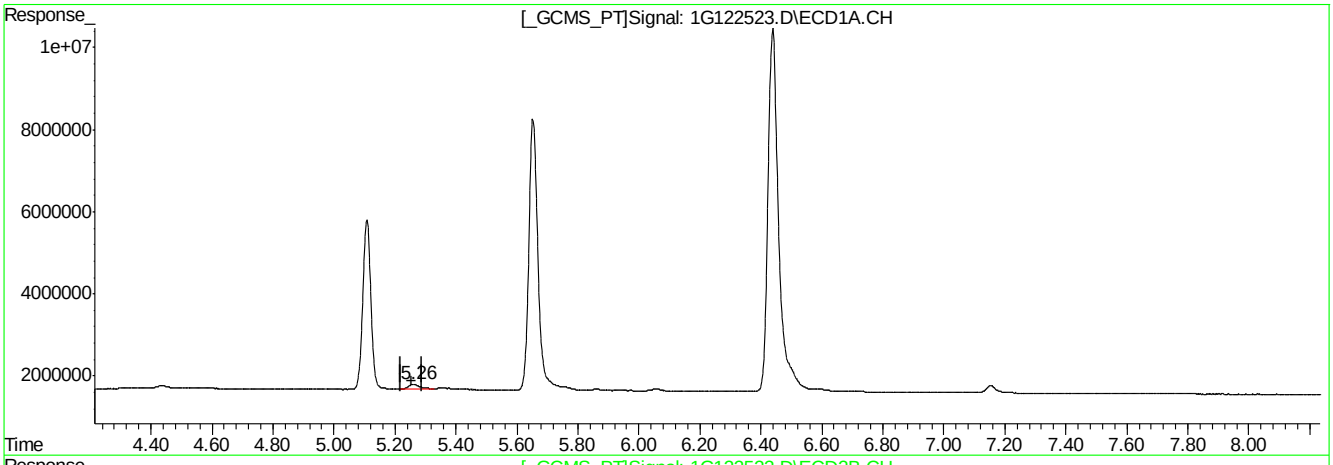
(+) = Expected Retention Time

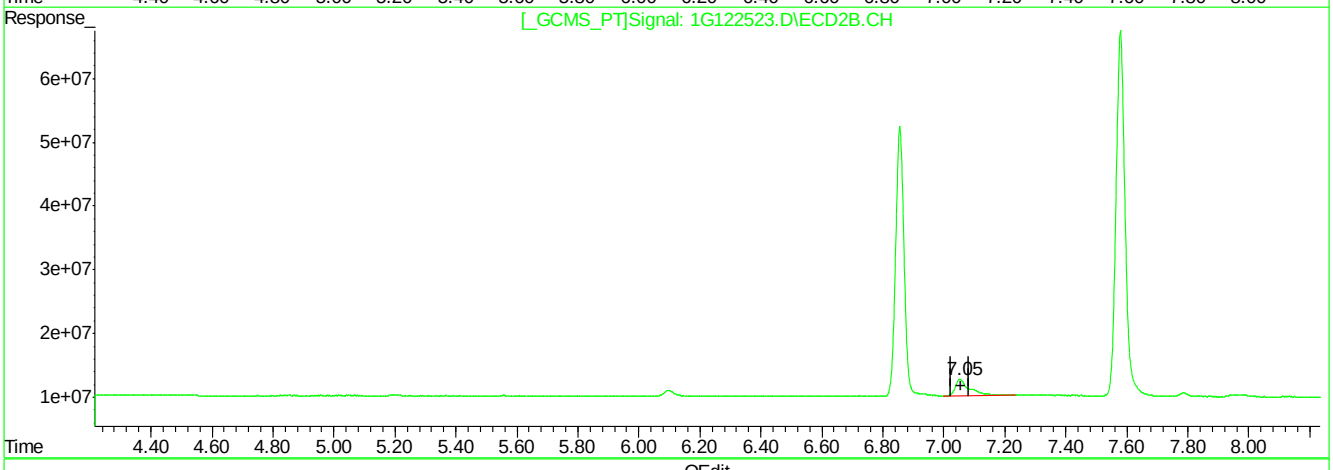
1G122523.D 1PST3973.M Wed Apr 27 16:30:03 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:07 am                    Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:28 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.26min 2.934PPB

response 2975832

(16) 4,4'-DDD #2 (A)

7.05min 5.610PPB

response 82633156

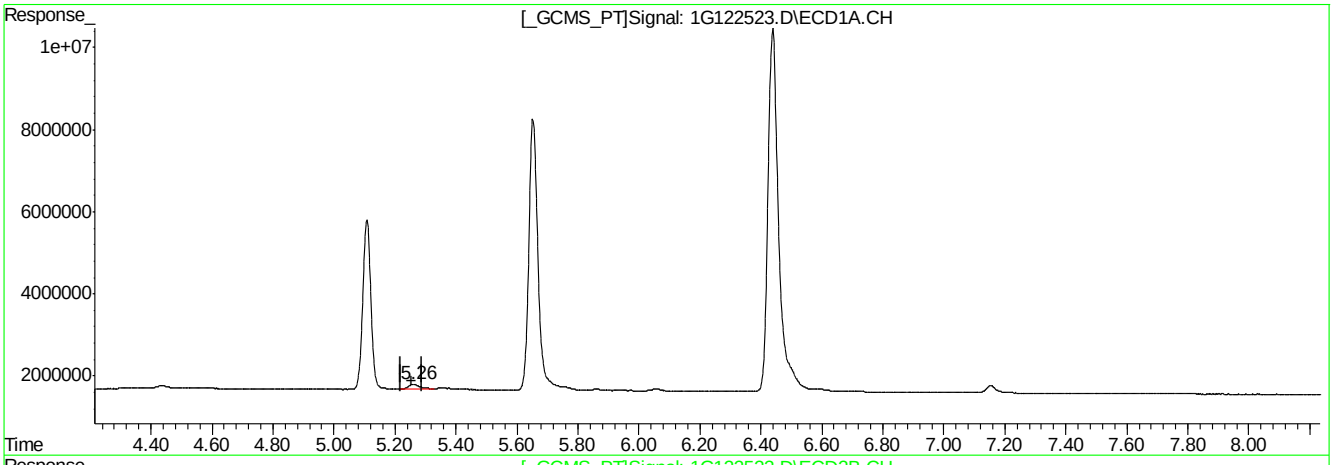
(+) = Expected Retention Time

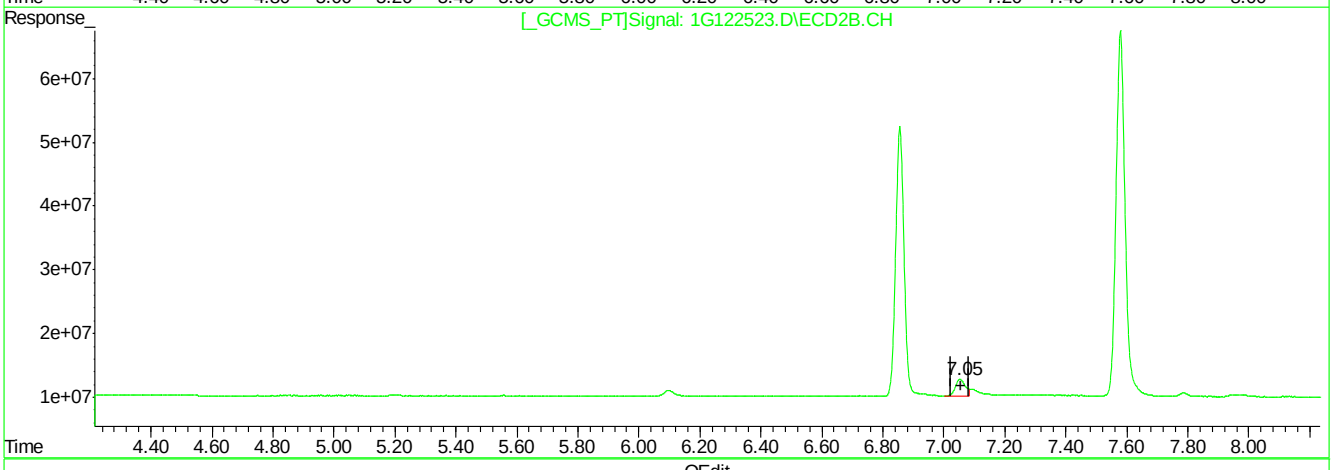
1G122523.D 1PST3973.M Wed Apr 27 16:30:10 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:07 am                    Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:28 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.26min 2.934PPB

response 2975832

(16) 4,4'-DDD #2 (A)

7.05min 3.903PPB m

response 57489674

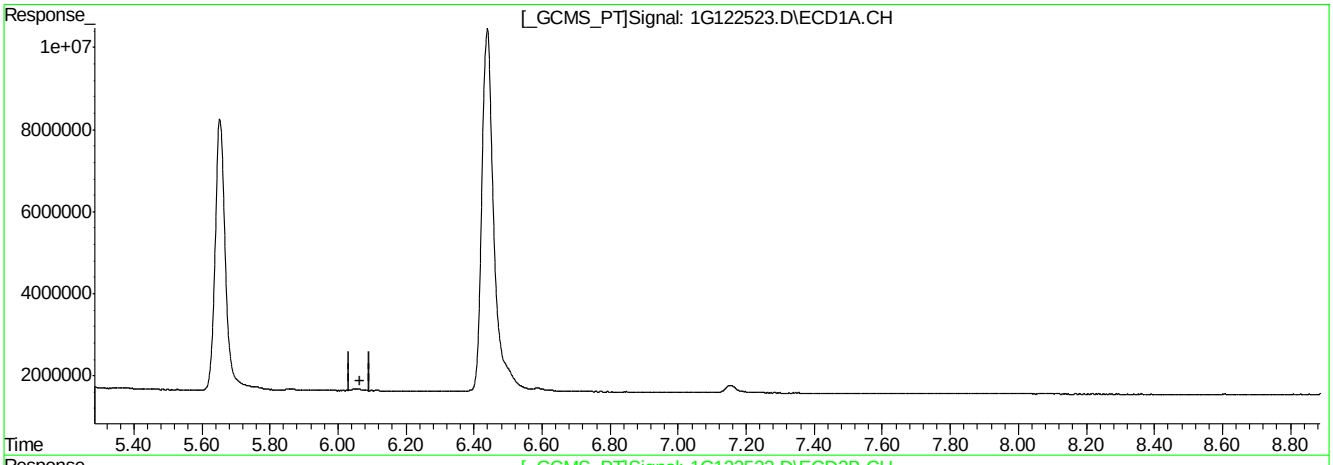
(+) = Expected Retention Time

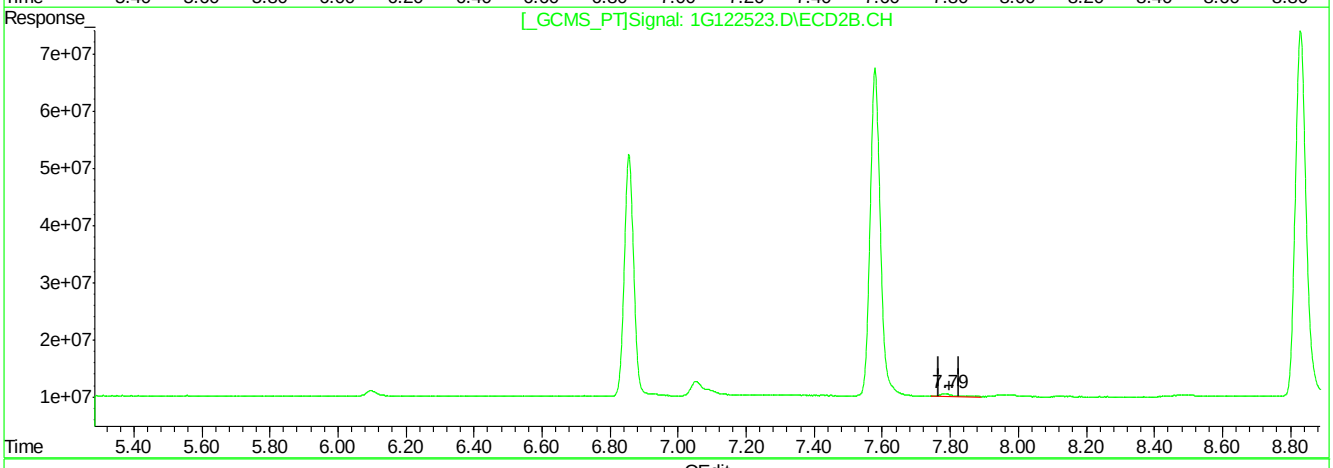
1G122523.D 1PST3973.M Wed Apr 27 16:30:23 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:07 am                    Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:28 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

7.79min 1.176PPB

response 13256354

(+) = Expected Retention Time

1G122523.D 1PST3973.M Wed Apr 27 16:30:29 2016 RPT1

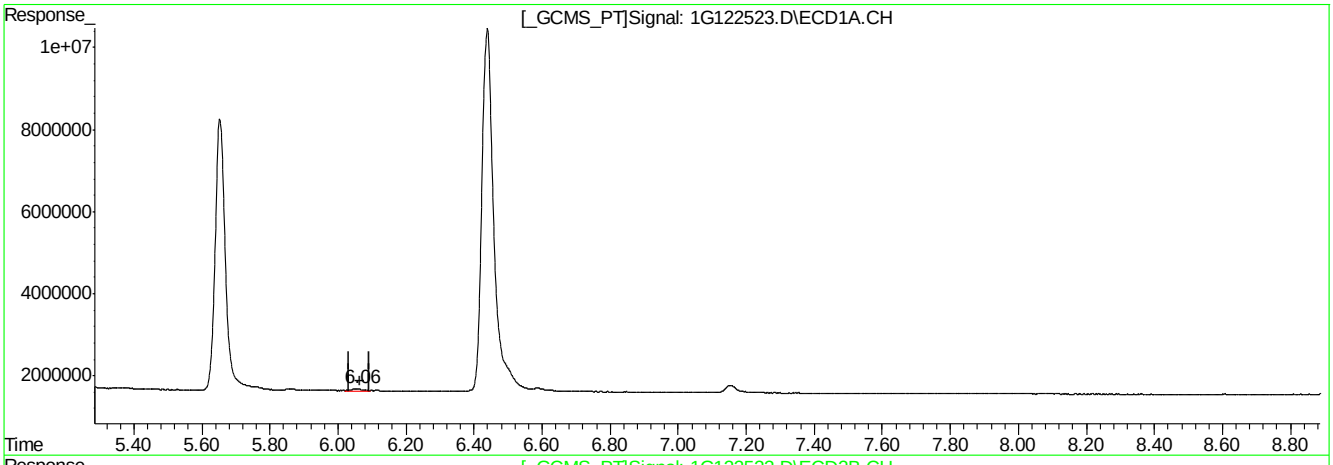
9.5.1.6

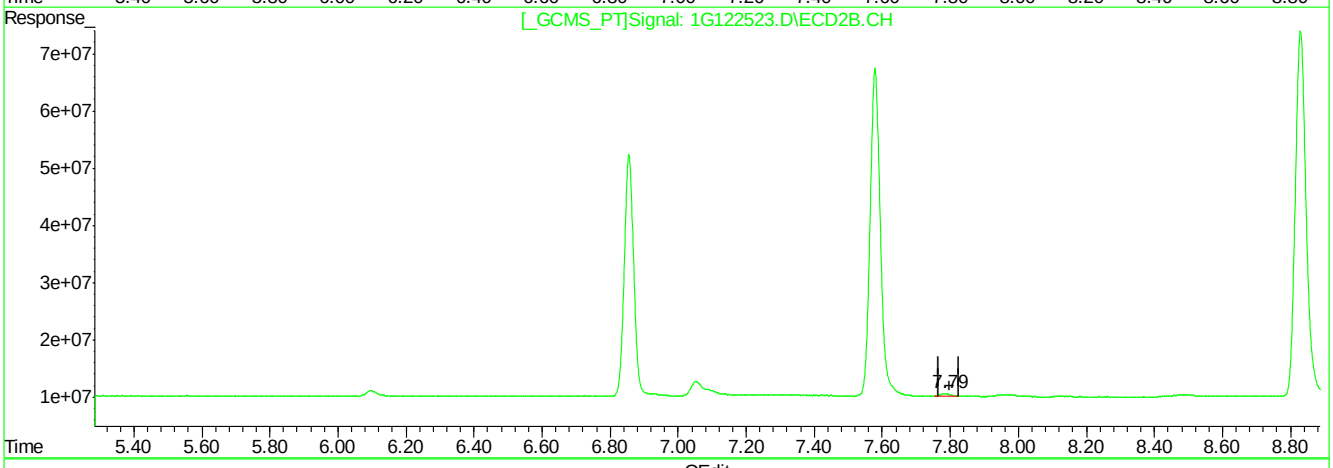
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122523.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:07 am                    Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:28 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.06min 0.922PPB m

response 1027311

(19) Endrin Aldehyde #2 (B)

7.79min 0.868PPB m

response 9780845

(+) = Expected Retention Time

1G122523.D 1PST3973.M Wed Apr 27 16:30:47 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/03/16 12:39

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD2B.CH
Acq On : 5-2-16 03:06:50 PM Operator: dharas
Sample : ddt Inst : GC1G
Misc : op93517,g1g3977,15.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 11:43 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.16	1.53	78145286	966.6E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.16	1.53	78145286	966.6E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.16	1.53	78145286	966.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.74	2.37	36074245	365.4E6	22.031	20.899
Spiked Amount	40.000	Range	30 - 150	Recovery	=	55.08%	52.25%
24) SA	Decachlorobiphen	8.92	10.86	51299564	247.0E6	17.743	24.220
Spiked Amount	40.000			Recovery	=	44.36%	60.55%
	Target Compounds						
13) B	4,4'-DDE	4.43	6.09	1886745	11780342	1.106m	0.637m
15) MA	Endrin	5.10	6.85	117.6E6	854.7E6	62.506	49.275
16) A	4,4'-DDD	5.25	7.05	3371491	60661593	2.344m	3.753
18) MA	4,4'-DDT	5.64	7.57	212.5E6	1350.1E6	157.980	129.904
19) B	Endrin Aldehyde	6.04	7.78	866830	8207103	0.549m	0.664m
23) B	Endrin Ketone	7.14	9.21	4675728	41147633	2.679	3.181

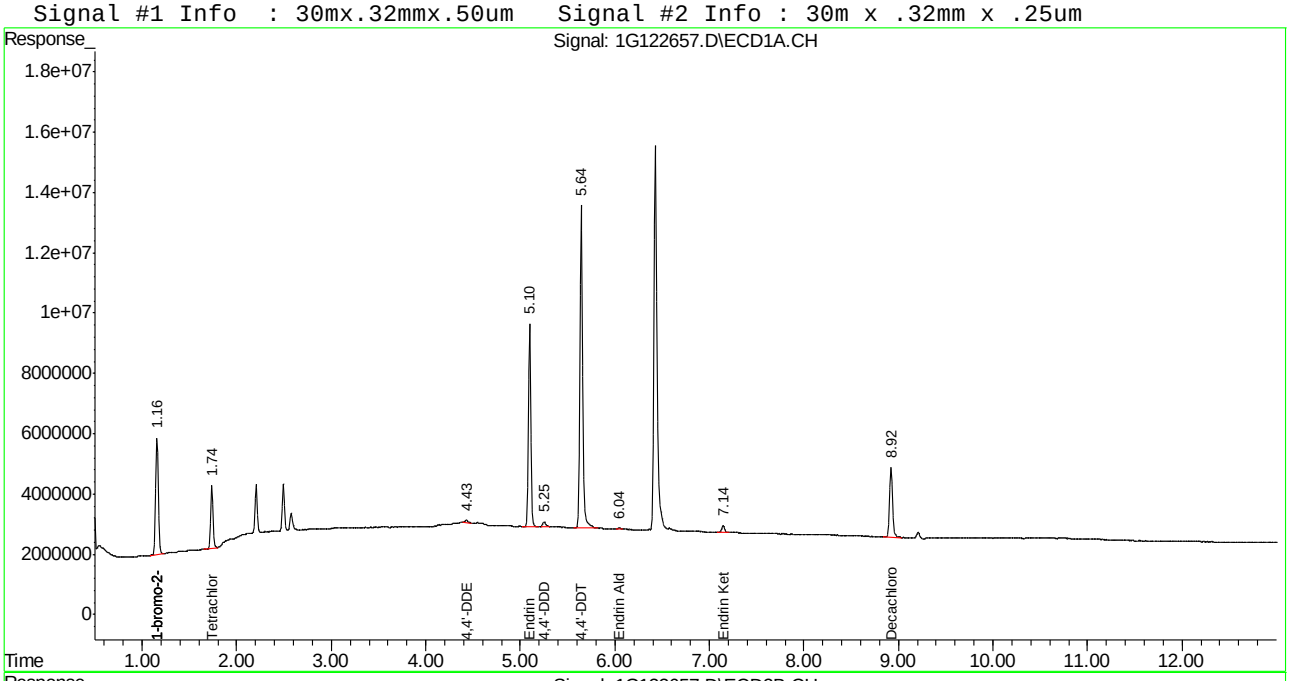
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122657.D 1PST3973.M Tue May 03 11:43:24 2016 RPT1 Page 1

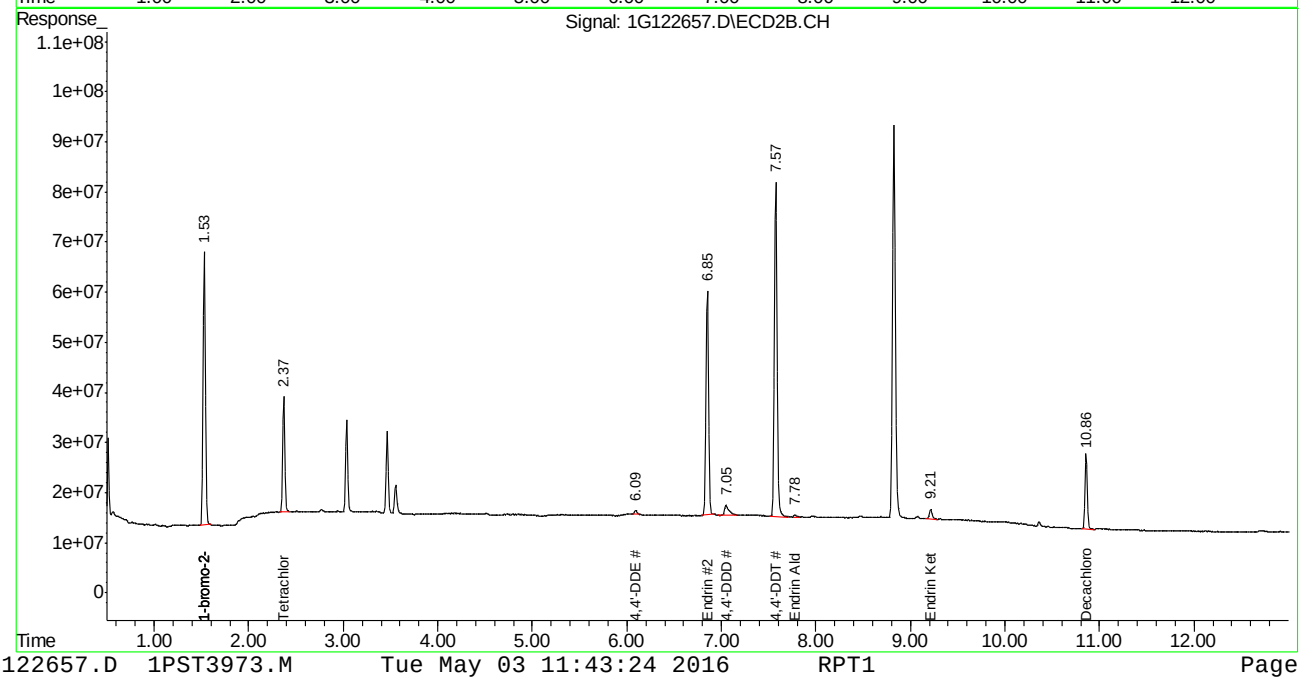
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD2B.CH
Acq On : 5-2-16 03:06:50 PM Operator: dharas
Sample : ddt Inst : GC1G
Misc : op93517,g1g3977,15.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 11:43 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

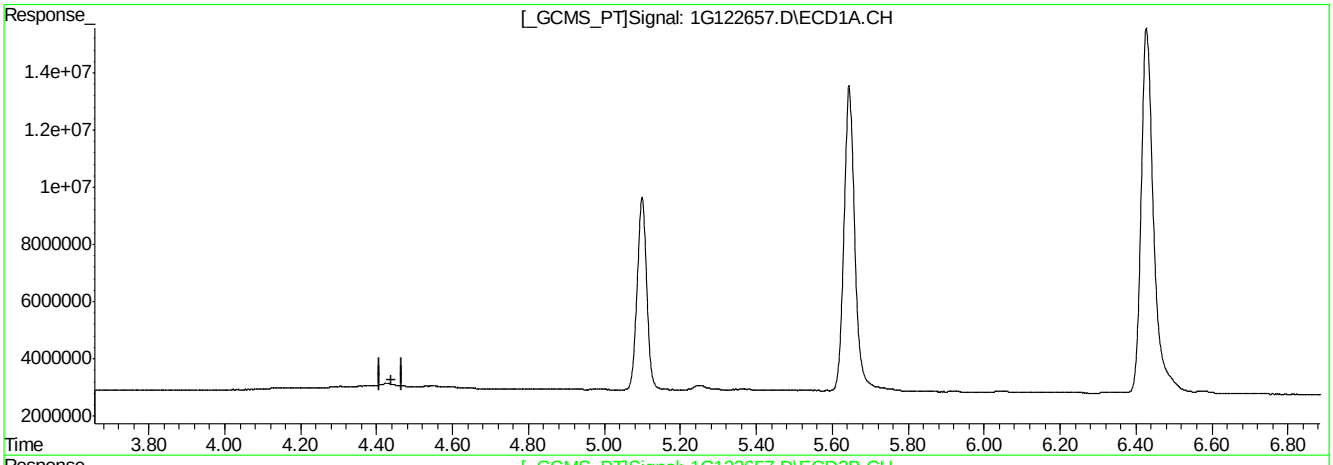
Sample Number:	G1G3977-DDT	**Method:**	SW846 8081B
Lab FileID:	1G122657.D	**Analyst approved:**	05/03/16 11:44 Dhara Saparia
Injection Time:	05/02/16 15:06	**Supervisor approved:**	05/03/16 12:39 Gwendolyn Burns

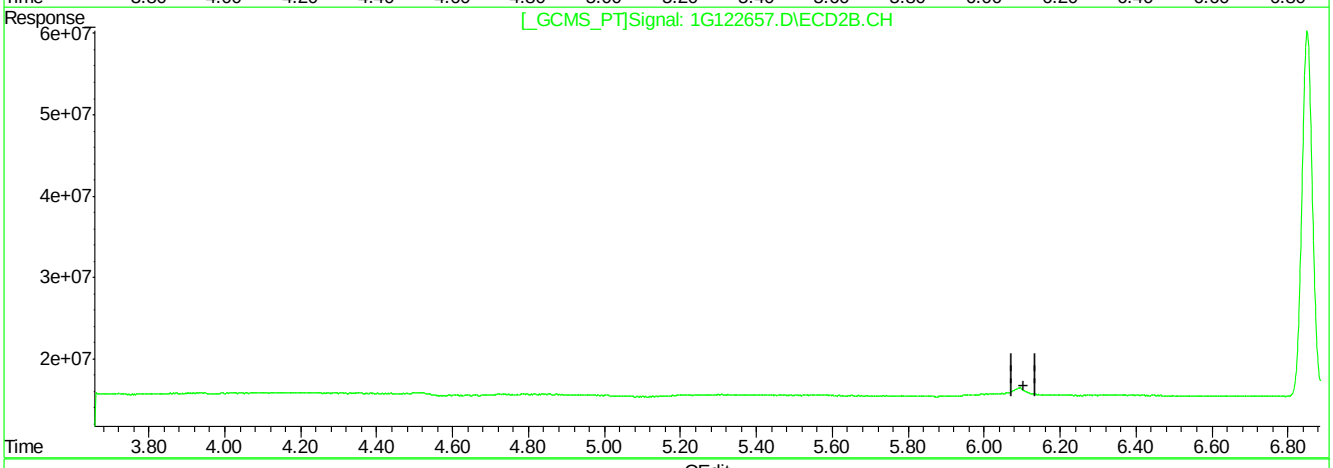
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.43	Poor instrument integration
4,4'-DDD	72-54-8	1	5.25	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.04	Poor instrument integration
4,4'-DDE	72-55-9	2	6.09	Poor instrument integration
Endrin aldehyde	7421-93-4	2	7.78	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD2B.CH
Acq On    : 5-2-16 03:06:50 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op93517,g1g3977,15.1,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 11:41 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

0.00min 0.000PPB

response 0

(13) 4,4'-DDE #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G122657.D 1PST3973.M Tue May 03 11:42:13 2016 RPT1

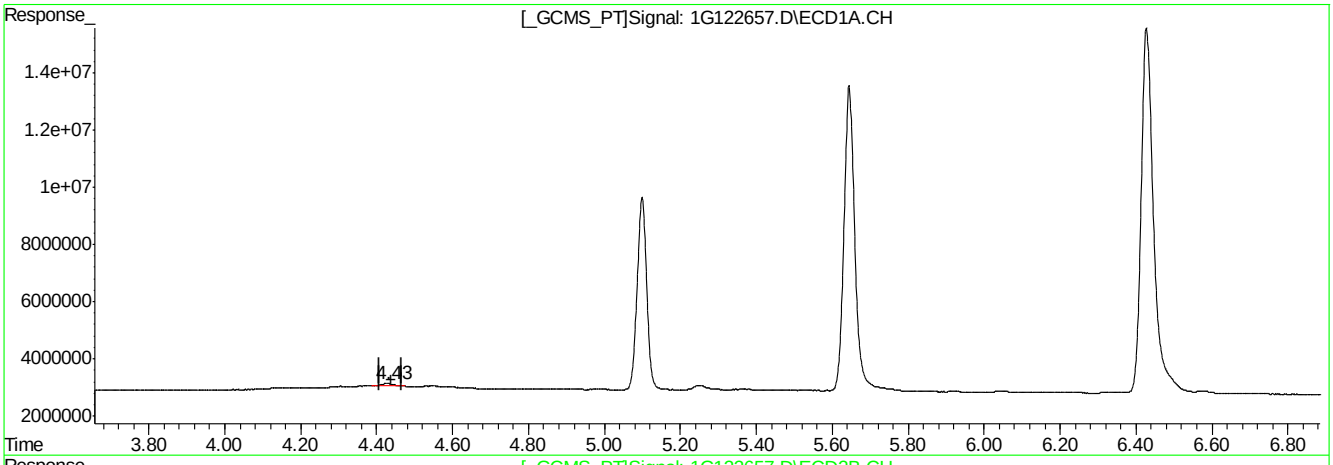
9.5.2.2

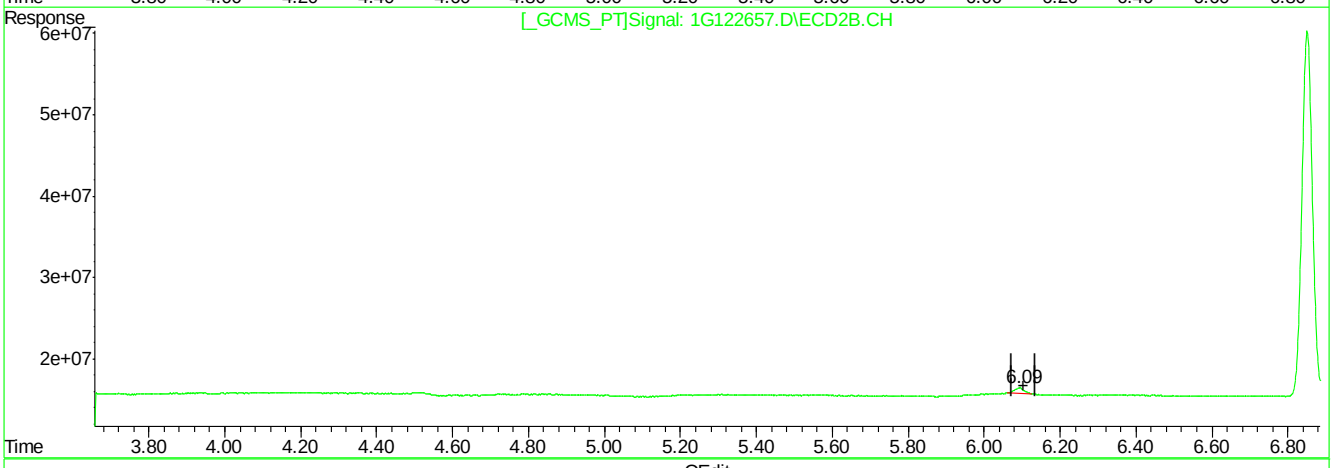
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD2B.CH
Acq On    : 5-2-16 03:06:50 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op93517,g1g3977,15.1,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 11:41 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.43min 1.106PPB m

response 1886745

(13) 4,4'-DDE #2 (B)

6.09min 0.637PPB m

response 11780342

(+) = Expected Retention Time

1G122657.D 1PST3973.M Tue May 03 11:42:31 2016 RPT1

9.5.2.3

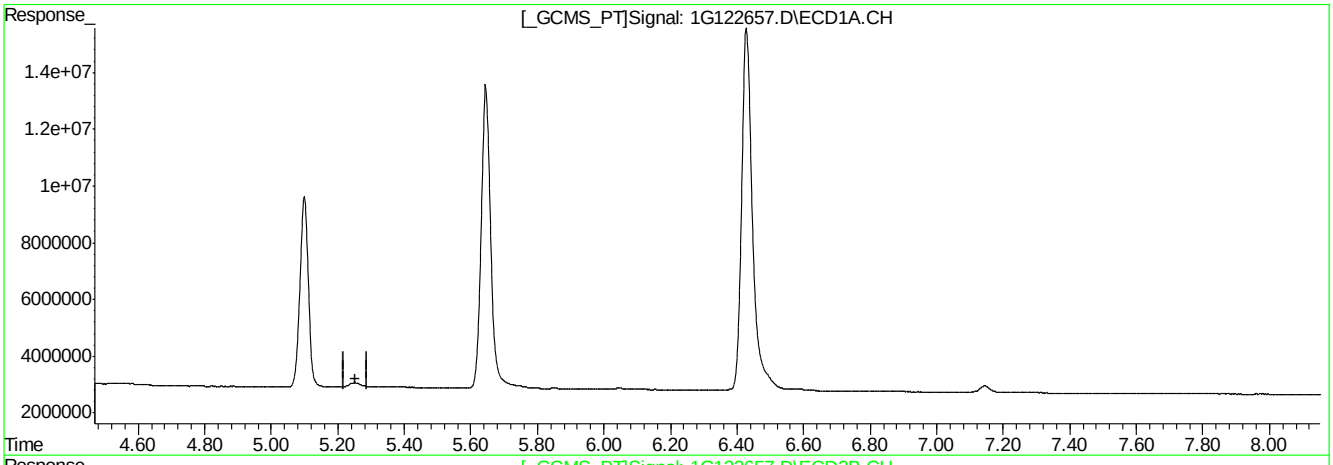
9

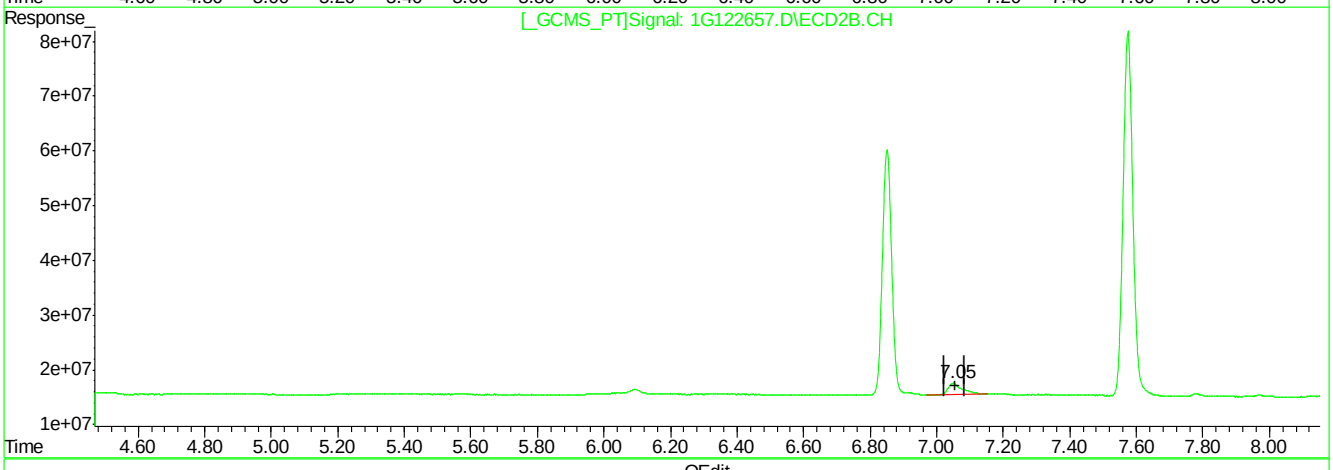
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD2B.CH
Acq On    : 5-2-16 03:06:50 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op93517,g1g3977,15.1,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 11:41 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

7.05min 3.753PPB

response 60661593

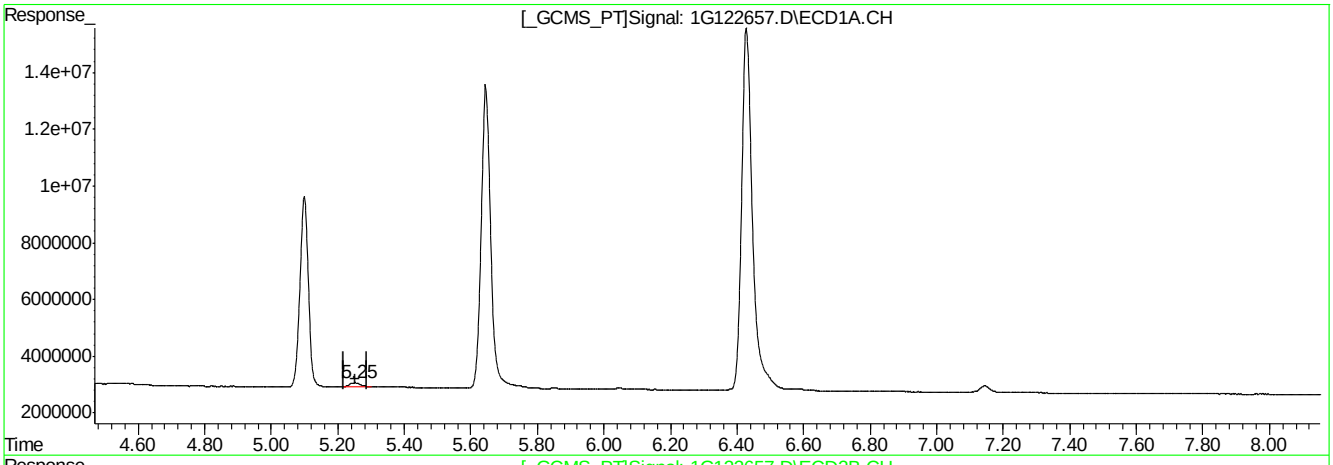
(+) = Expected Retention Time

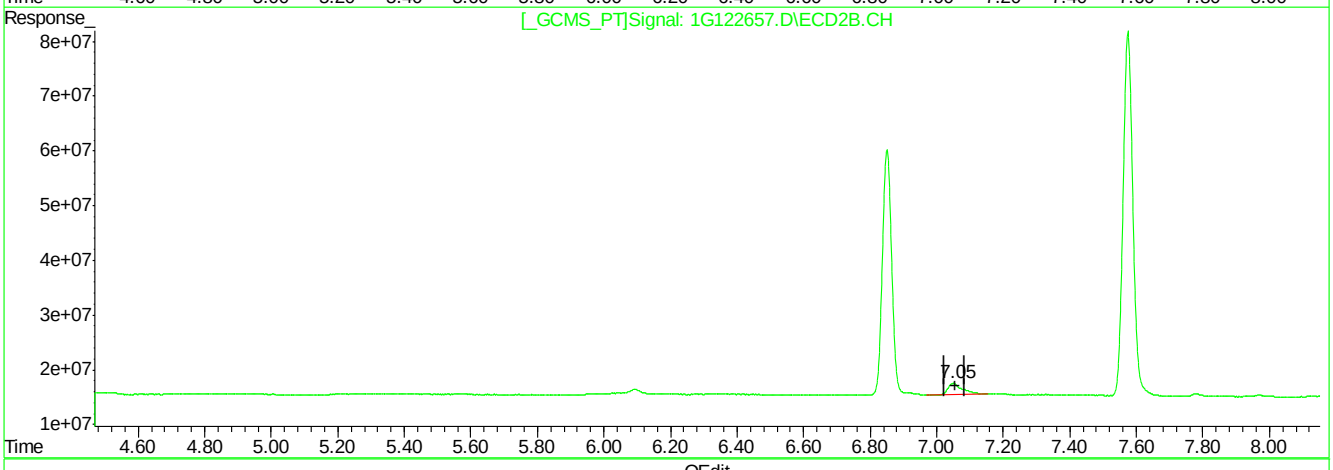
1G122657.D 1PST3973.M Tue May 03 11:42:35 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD2B.CH
Acq On    : 5-2-16 03:06:50 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op93517,g1g3977,15.1,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 11:41 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.25min 2.344PPB m

response 3371491

(16) 4,4'-DDD #2 (A)

7.05min 3.753PPB

response 60661593

(+) = Expected Retention Time

1G122657.D 1PST3973.M Tue May 03 11:42:50 2016 RPT1

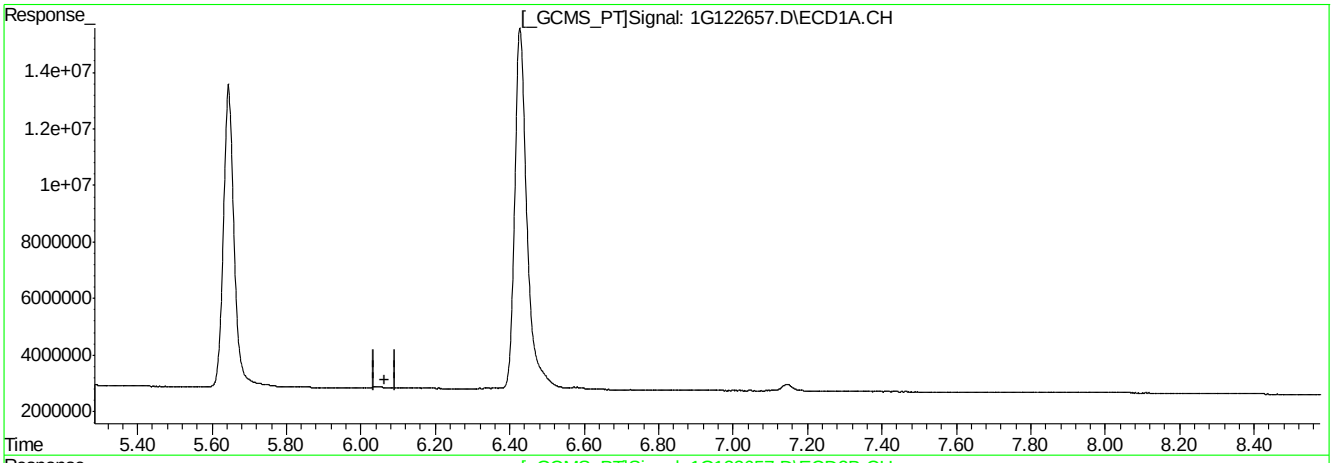
9.5.2.5

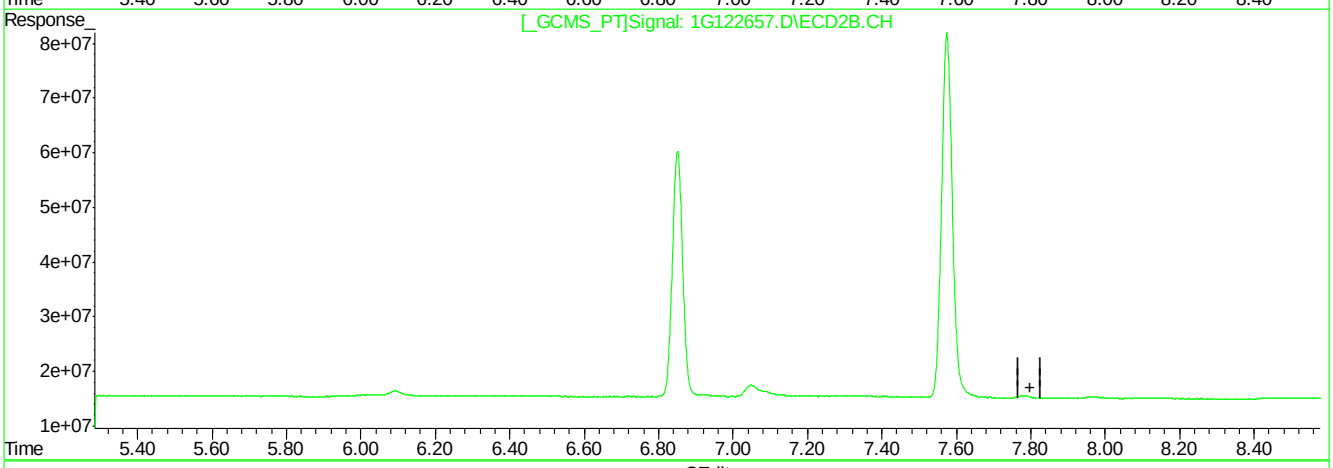
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD2B.CH
Acq On    : 5-2-16 03:06:50 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op93517,g1g3977,15.1,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 11:41 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G122657.D 1PST3973.M Tue May 03 11:42:58 2016 RPT1

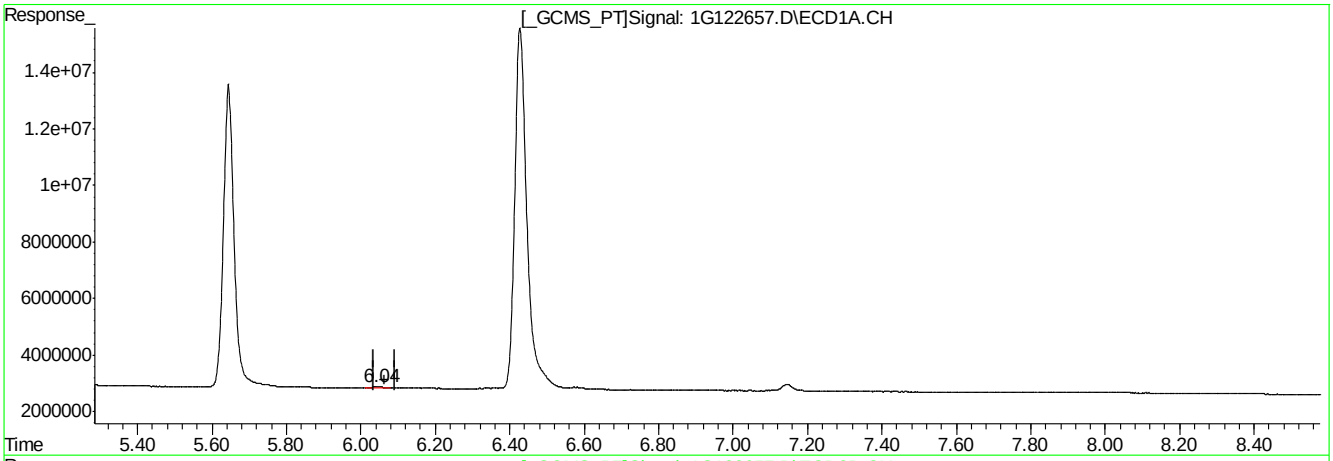
9.5.2.6

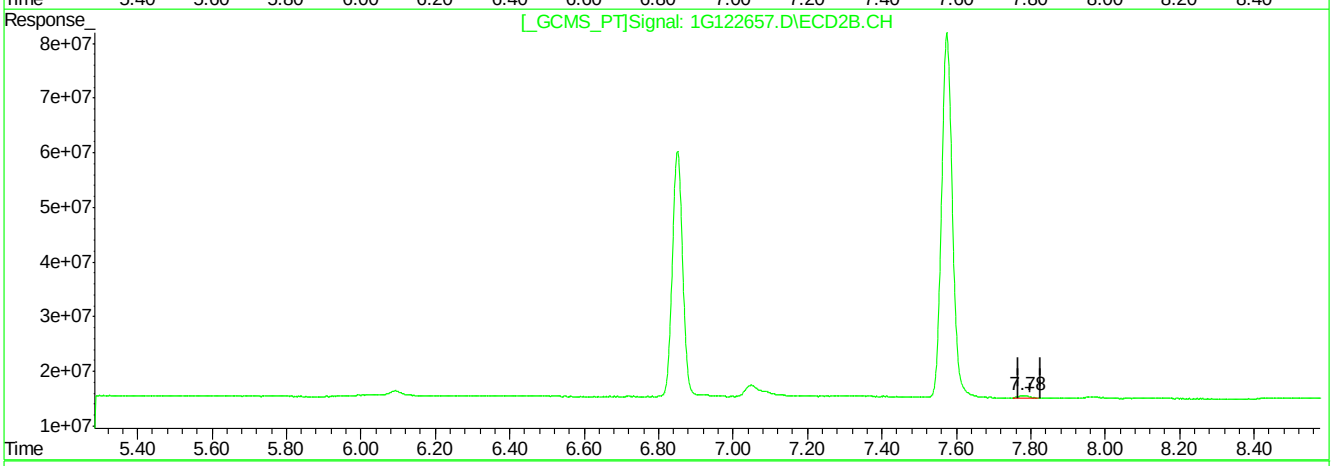
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122657.D\ECD2B.CH
Acq On    : 5-2-16 03:06:50 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op93517,g1g3977,15.1,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 11:41 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.04min 0.549PPB m

response 866830

(19) Endrin Aldehyde #2 (B)

7.78min 0.664PPB m

response 8207103

(+) = Expected Retention Time

1G122657.D 1PST3973.M Tue May 03 11:43:16 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:31:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.785f	2.062	328.2E6	300.2E6	50.000	50.000
25) I	1-bromo-2...	1.785	2.062	328.2E6	300.2E6	50.000	50.000
31) I	1-bromo-2...	1.785	2.062	328.2E6	300.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.586	3.101	126.8E6	120.2E6	22.413m	22.735m
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 56.03%	56.84%
24) SA	Decachlor...	10.262	11.666	153.3E6	107.1E6	28.756m	28.560
	Spiked Amount	40.000			Recovery	= 71.89%	71.40%
	Target Compounds						
13) B	4,4'-DDE	5.705	7.115	4928073	5619299	0.851	0.922m
15) MA	Endrin	6.446f	7.932	357.9E6	325.0E6	61.726	59.920
16) A	4,4'-DDD	6.578	8.089	10193689	13113095	2.077	2.663 #
18) MA	4,4'-DDT	7.006	8.635	619.9E6	599.9E6	121.777	139.372
19) B	Endrin Al...	7.417	8.867	4622381	4711235	0.981m	1.157m
23) B	Endrin Ke...	8.571	10.201	15245220	18350578	2.578	3.725m#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

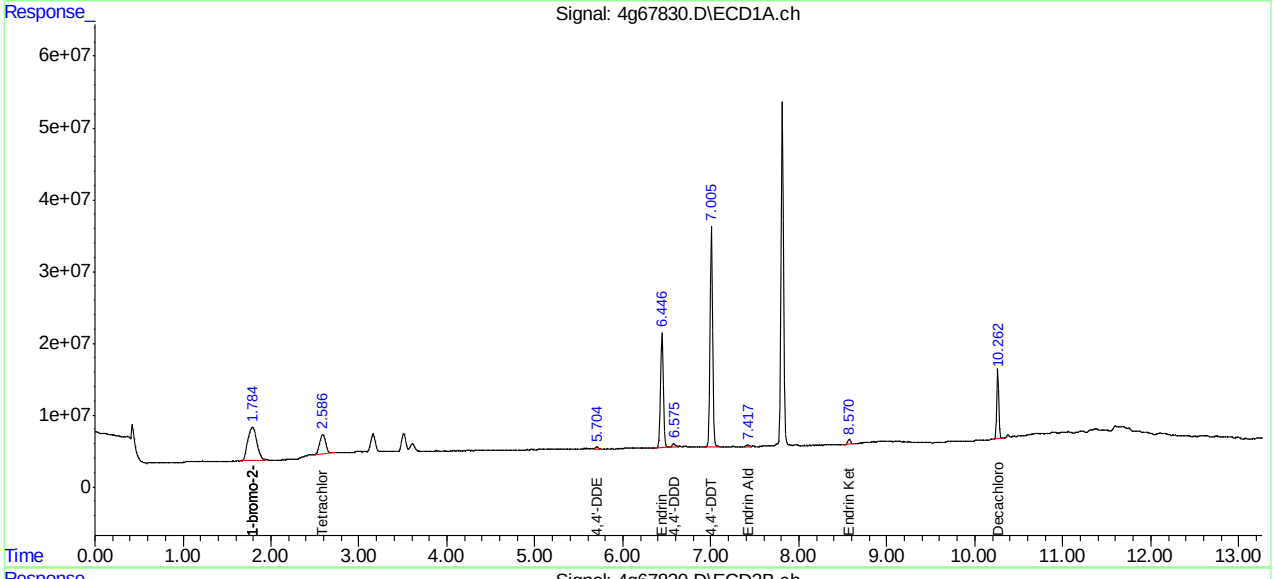
9.5.3
9

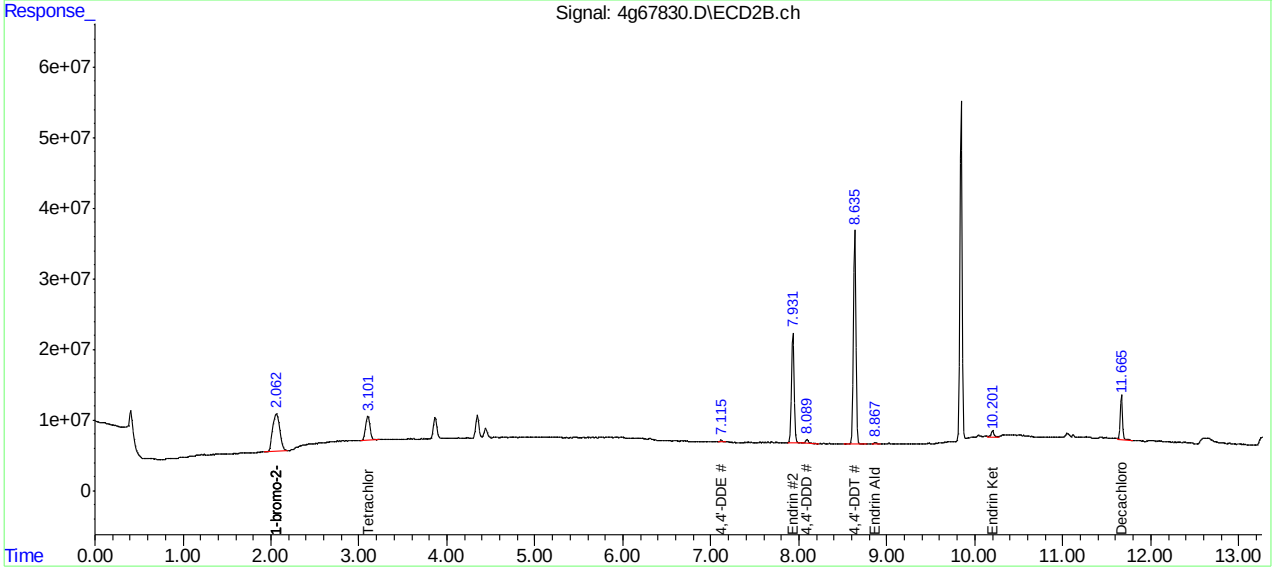
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:31:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-DDT	**Method:**	SW846 8081B
Lab FileID:	4G67830.D	**Analyst approved:**	05/03/16 15:32 Joseph Ravino
Injection Time:	05/02/16 13:55	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

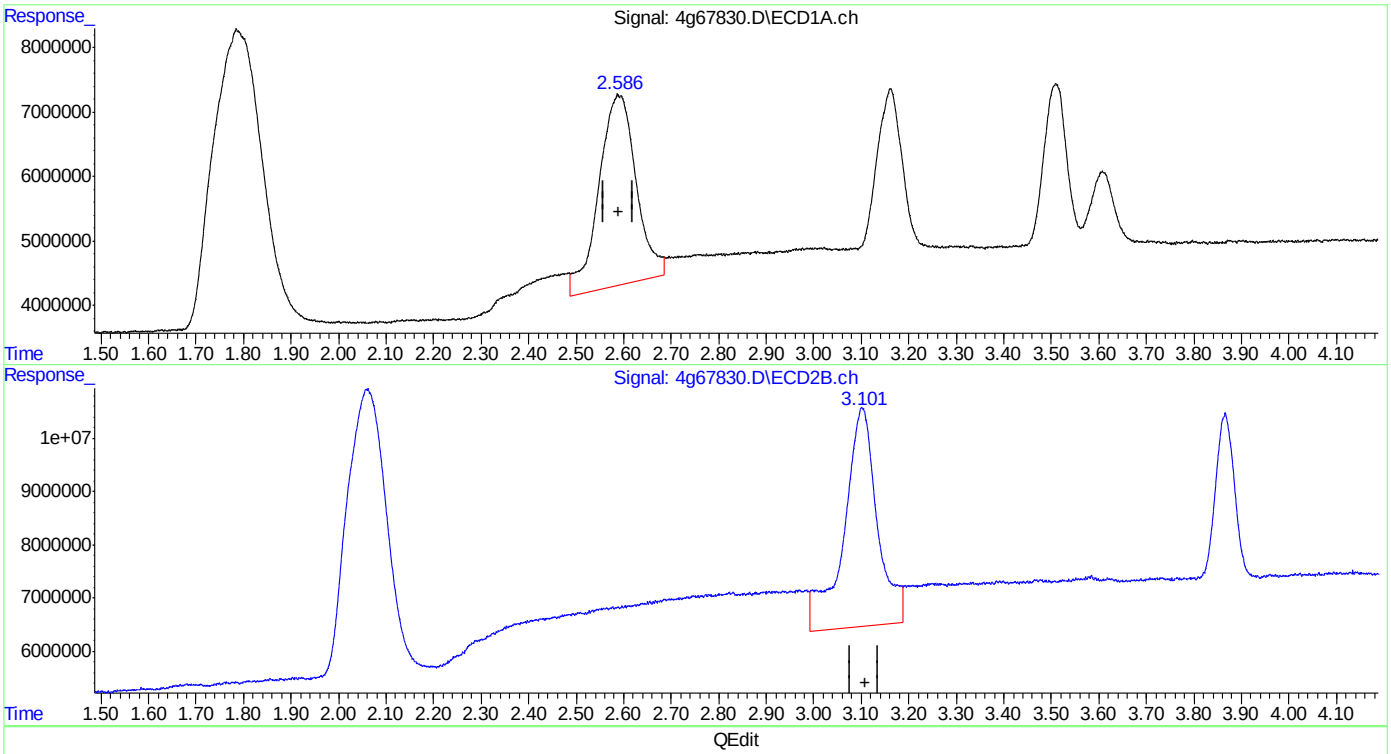
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	3.10	Poorly defined baseline
4,4'-DDE	72-55-9	2	7.12	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	7.42	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	8.87	Poorly defined baseline
Endrin ketone	53494-70-5	2	10.20	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.26	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   1:55 pm
Operator  : dharas
Sample    : ddt
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(2) Tetrachloro-m-xylene (SAB)

2.587min 28.485 PPB

response 161188028

(2) Tetrachloro-m-xylene #2 (SAB)

3.101min 38.318 PPB

response 202621898

(+) = Expected Retention Time

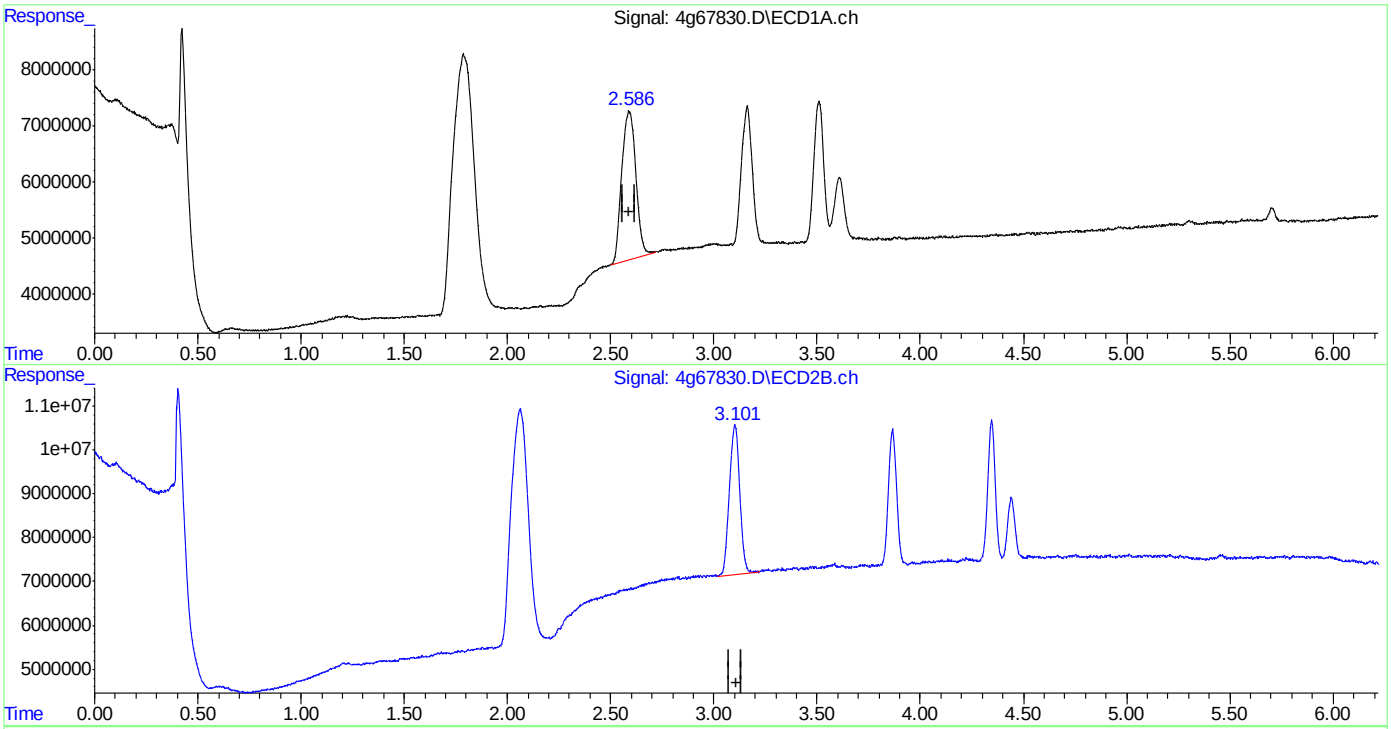
4PST1778.M Tue May 03 15:29:00 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.586min 22.413 PPB m
response 126825495

(2) Tetrachloro-m-xylene #2 (SAB)
3.101min 22.735 PPB m
response 120220429

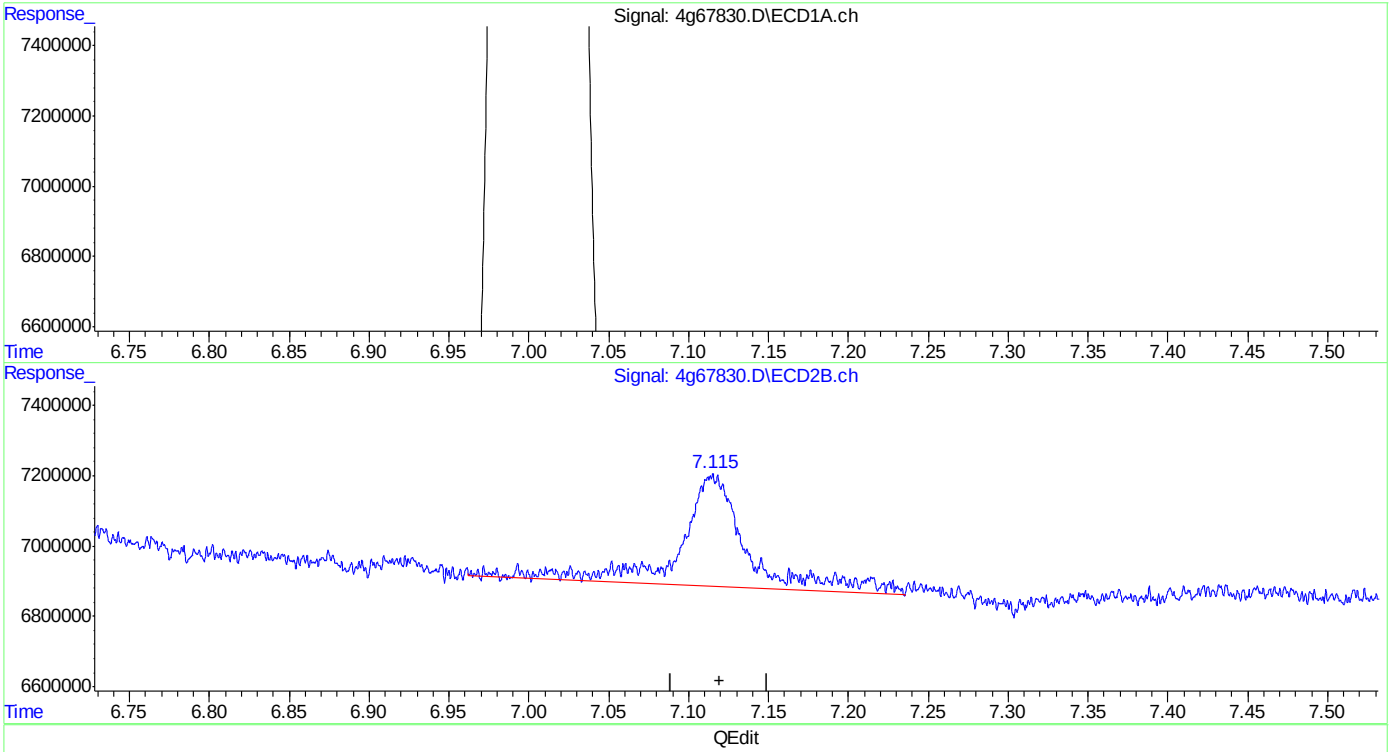
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:29:10 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(13) 4,4'-DDE (B)
5.705min 0.851 PPB
response 4928073

(13) 4,4'-DDE #2 (B)
7.115min 1.548 PPB
response 9432058

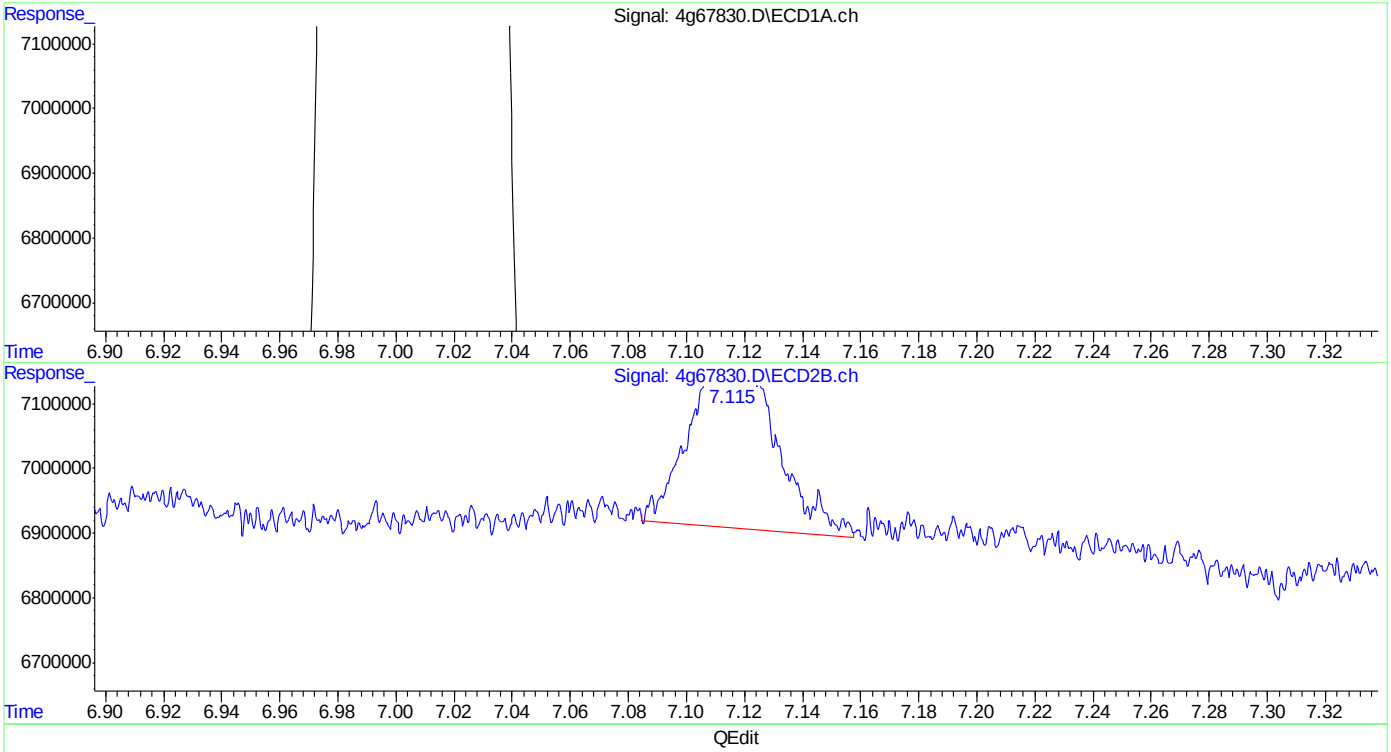
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   1:55 pm
Operator  : dharas
Sample    : ddt
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(13) 4,4'-DDE (B)
5.705min 0.851 PPB
response 4928073

(13) 4,4'-DDE #2 (B)
7.115min 0.922 PPB m
response 5619299

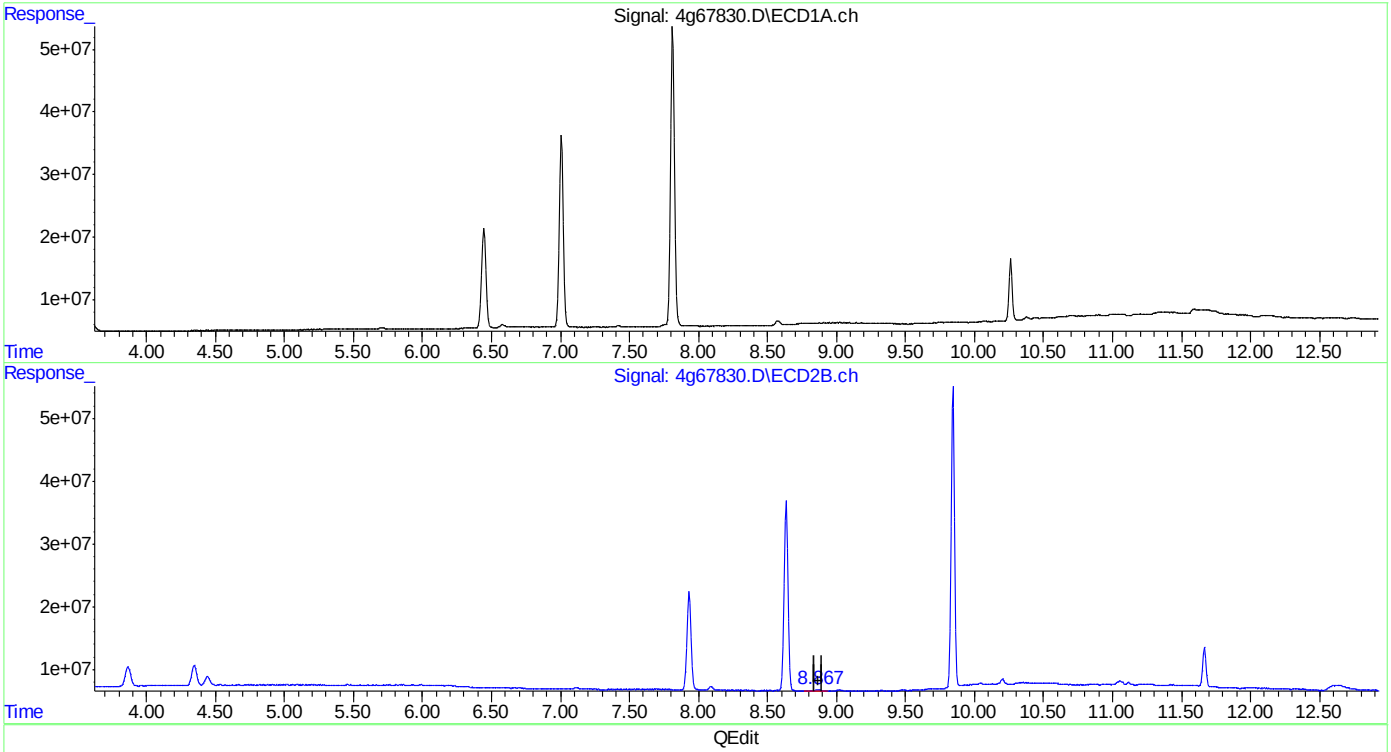
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(19) Endrin Aldehyde (B)
0.000min 0.000 PPB
response 0

(19) Endrin Aldehyde #2 (B)
8.867min 1.311 PPB
response 5341379

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:30:09 2016 RPT1

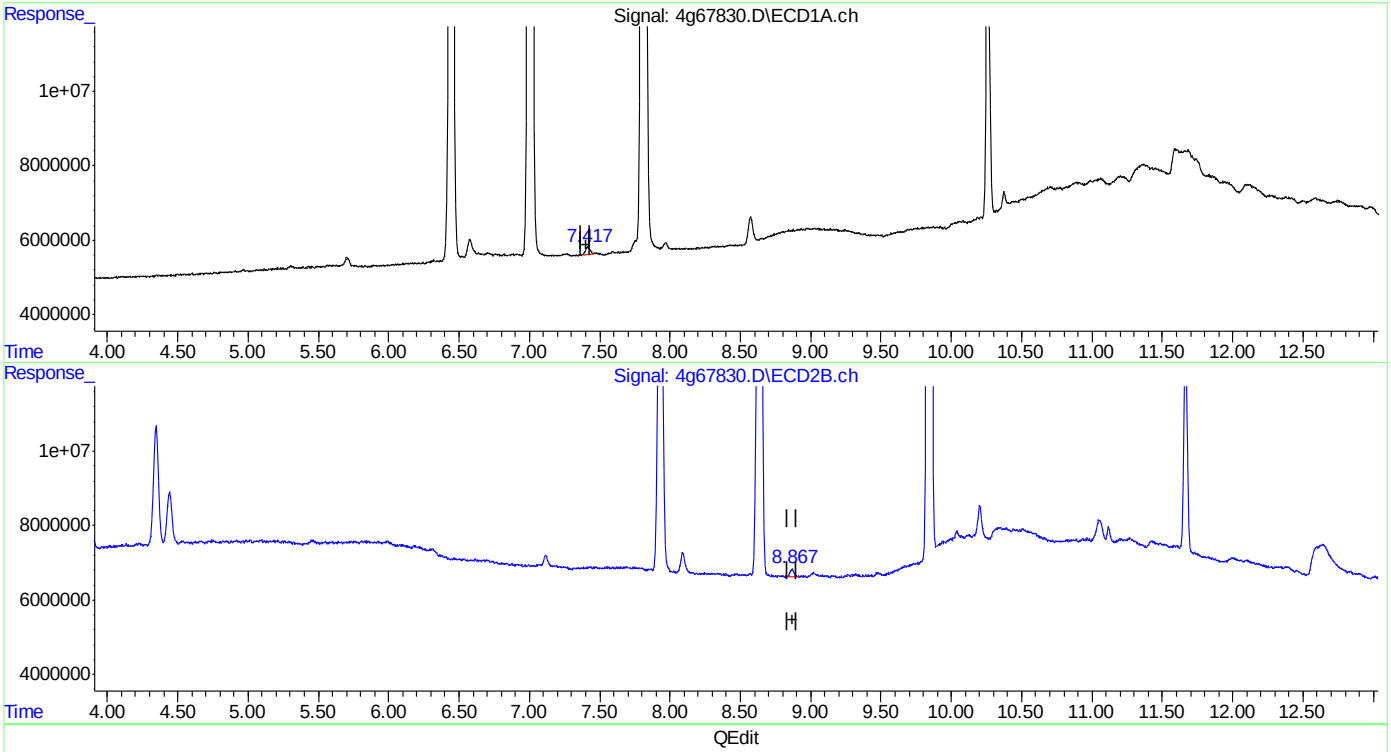
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.417min 0.981 PPB m
response 4622381

(19) Endrin Aldehyde #2 (B)
8.867min 1.157 PPB m
response 4711235

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:30:41 2016 RPT1

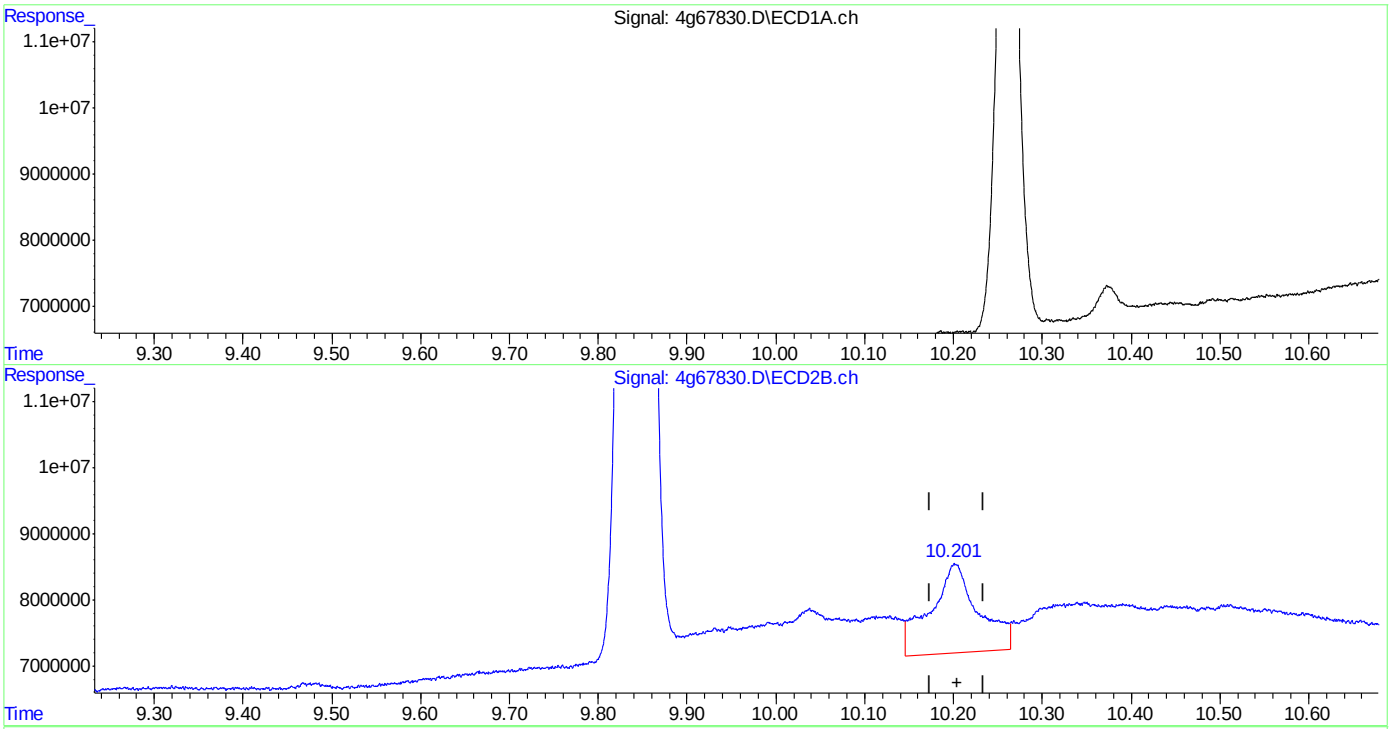
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   1:55 pm
Operator  : dharas
Sample    : ddt
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



(23) Endrin Ketone (B)
8.571min 2.578 PPB
response 15245220

(23) Endrin Ketone #2 (B)
10.202min 10.275 PPB
response 50617081

(+) = Expected Retention Time

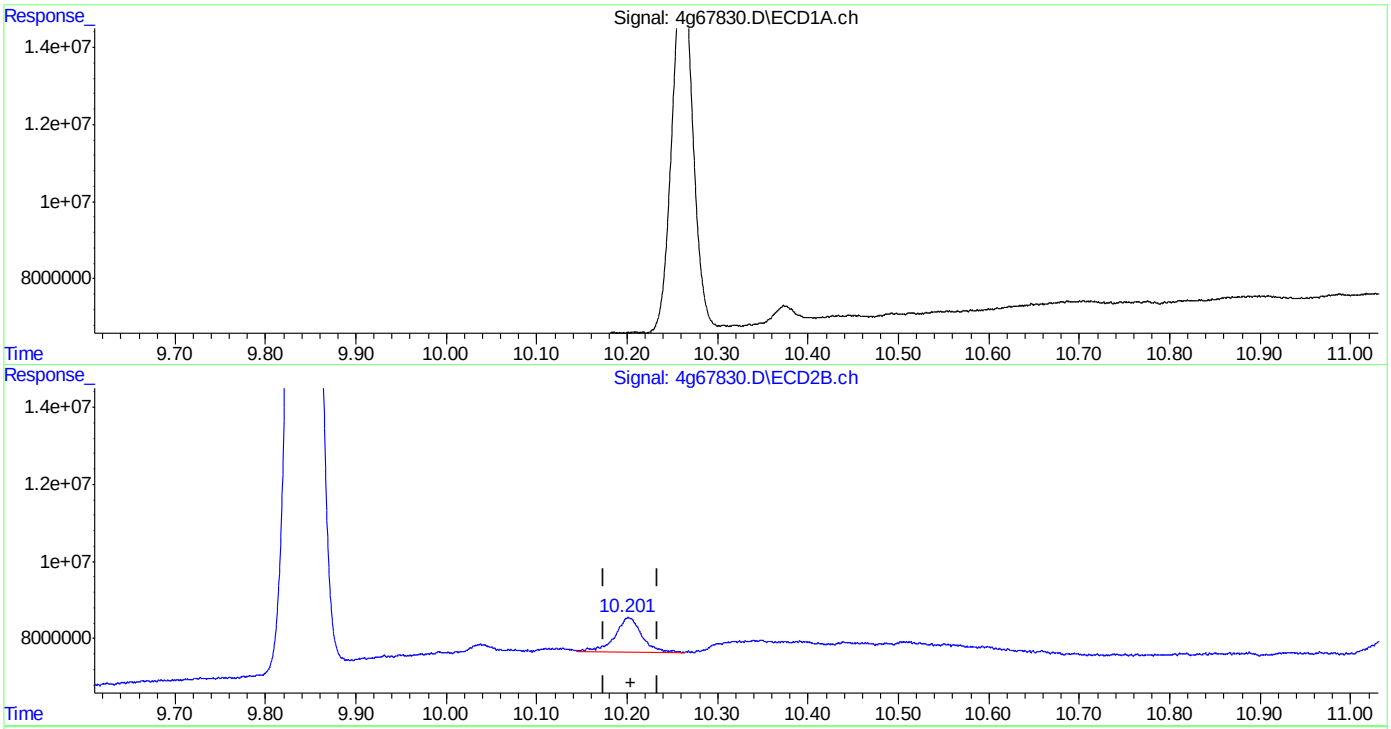
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(23) Endrin Ketone (B)
8.571min 2.578 PPB
response 15245220

(23) Endrin Ketone #2 (B)
10.201min 3.725 PPB m
response 18350578

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:30:56 2016 RPT1

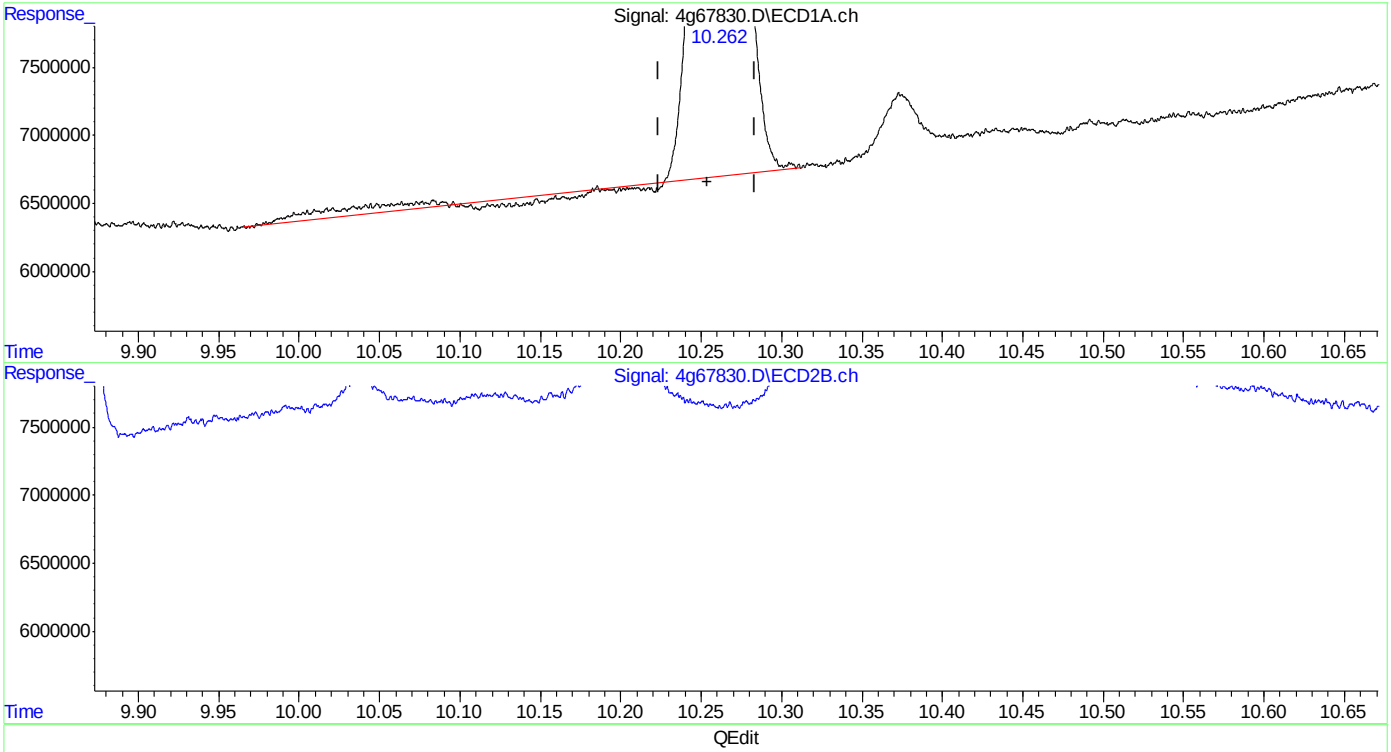
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.262min 28.644 PPB
response 152738547

(24) Decachlorobiphenyl #2 (SA)
11.666min 28.560 PPB
response 107104234

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:31:08 2016 RPT1

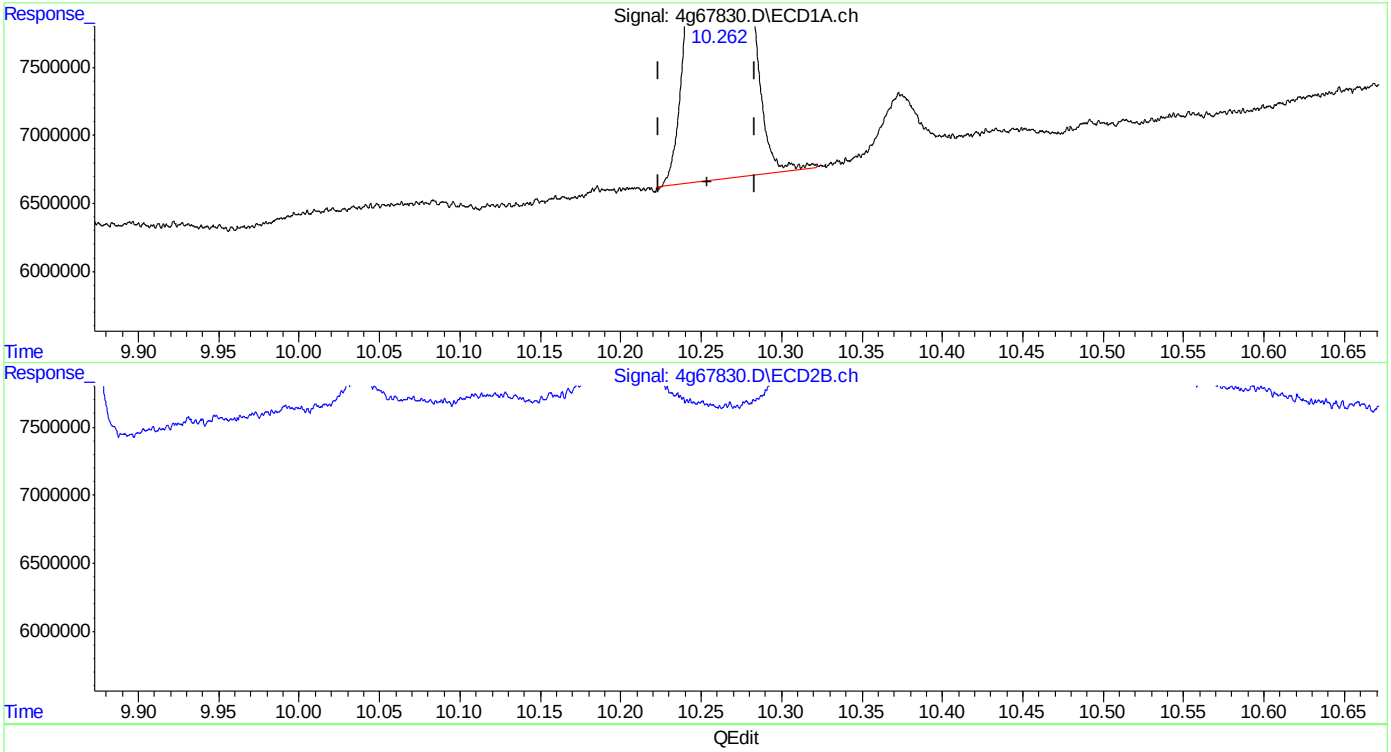
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.262min 28.756 PPB m
response 153337754

(24) Decachlorobiphenyl #2 (SA)
11.666min 28.560 PPB
response 107104234

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/06/16 10:47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67942.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:42 am
Operator : brittanp
Sample : ddt
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 09:37:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.782f	2.066	501.0E6	437.8E6	50.000	50.000
25) I	1-bromo-2...	1.782	2.066	501.0E6	437.8E6	50.000	50.000
31) I	1-bromo-2...	1.782	2.066	501.0E6	437.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.571f	3.102	187.3E6	171.3E6	21.689m	22.216
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 54.22%	55.54%
24) SA	Decachlor...	10.239f	11.640f	199.4E6	124.0E6	24.502	22.681
	Spiked Amount	40.000			Recovery	= 61.25%	56.70%
	Target Compounds						
13) B	4,4'-DDE	5.685	7.102f	2546601	3502915	0.288m	0.394m#
15) MA	Endrin	6.413f	7.920f	500.2E6	449.7E6	56.505	56.850
16) A	4,4'-DDD	6.564	8.080	3032566	4285767	0.405m	0.597m#
18) MA	4,4'-DDT	6.979f	8.621f	917.0E6	873.4E6	118.975	139.132
19) B	Endrin Al...	7.390	8.853f	5873647	6487849	0.817m	1.092m#
23) B	Endrin Ke...	8.543f	10.190	21044663	18373158	2.331	2.558
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

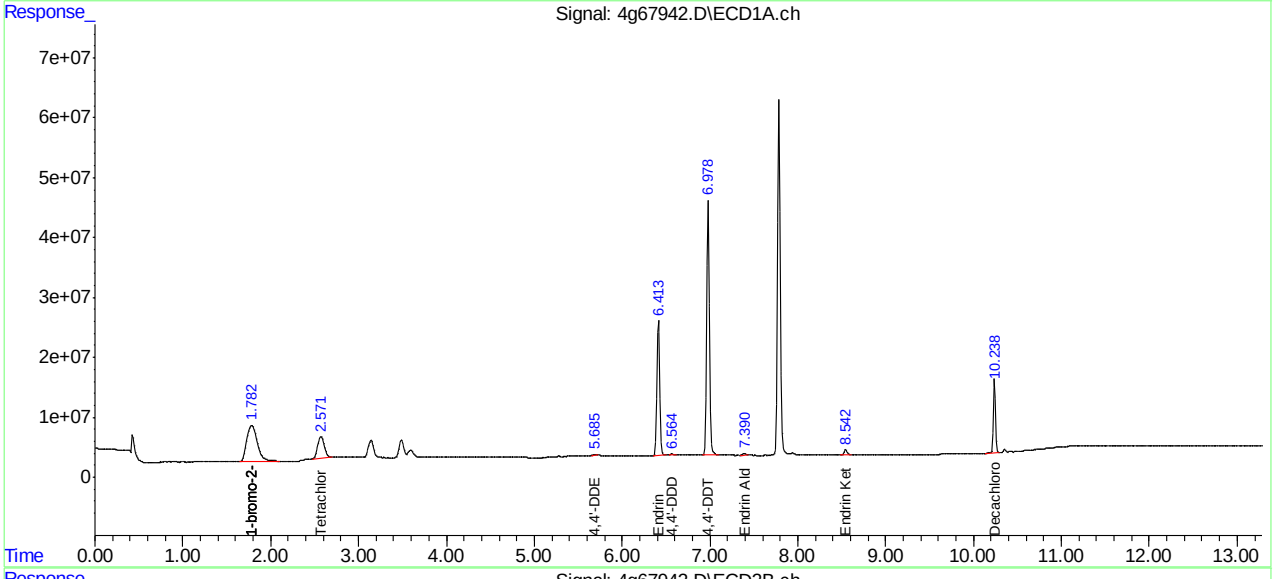
9.5.4
9

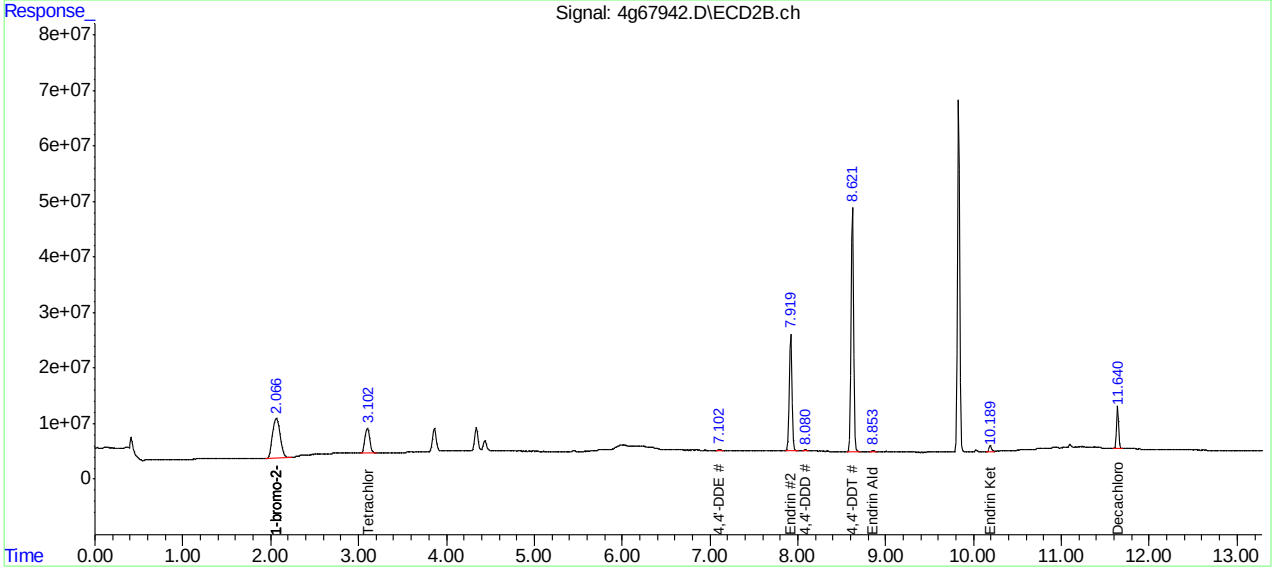
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67942.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:42 am
Operator : brittanp
Sample : ddt
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 09:37:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1782-DDT	**Method:**	SW846 8081B
Lab FileID:	4G67942.D	**Analyst approved:**	05/06/16 09:43 Brittany Piercy
Injection Time:	05/06/16 07:42	**Supervisor approved:**	05/06/16 10:47 Gwendolyn Burns

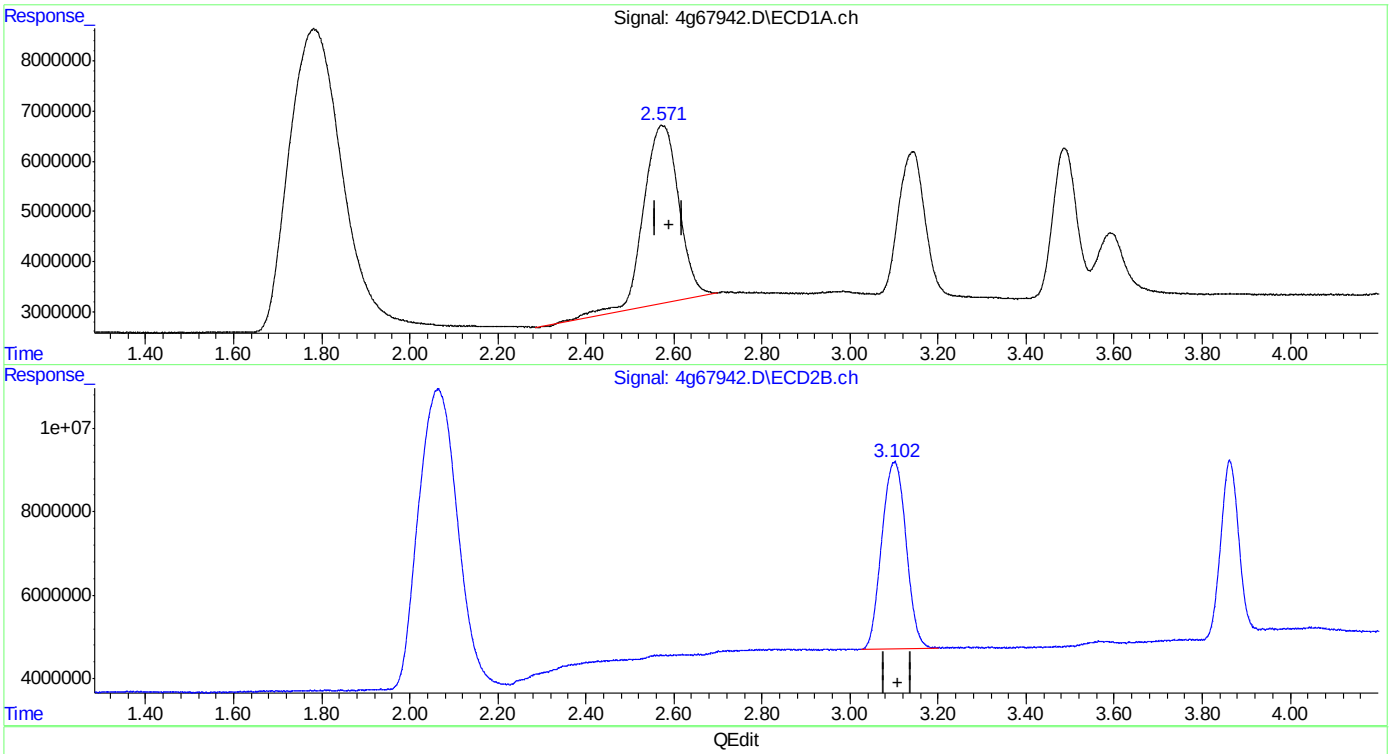
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.57	Poor instrument integration
4,4'-DDE	72-55-9	1	5.68	Poor instrument integration
4,4'-DDD	72-54-8	1	6.56	Poor instrument integration
4,4'-DDE	72-55-9	2	7.10	Poor instrument integration
Endrin aldehyde	7421-93-4	1	7.39	Poor instrument integration
4,4'-DDD	72-54-8	2	8.08	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.85	Poor instrument integration

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67942.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016   7:42 am
Operator  : brittanp
Sample    : ddt
Misc      : op93644,g4g1782,15.5,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 07:55:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



(2) Tetrachloro-m-xylene (SAB)

2.572min 22.920 PPB

response 197976055

(2) Tetrachloro-m-xylene #2 (SAB)

3.102min 22.216 PPB

response 171313848

(+) = Expected Retention Time

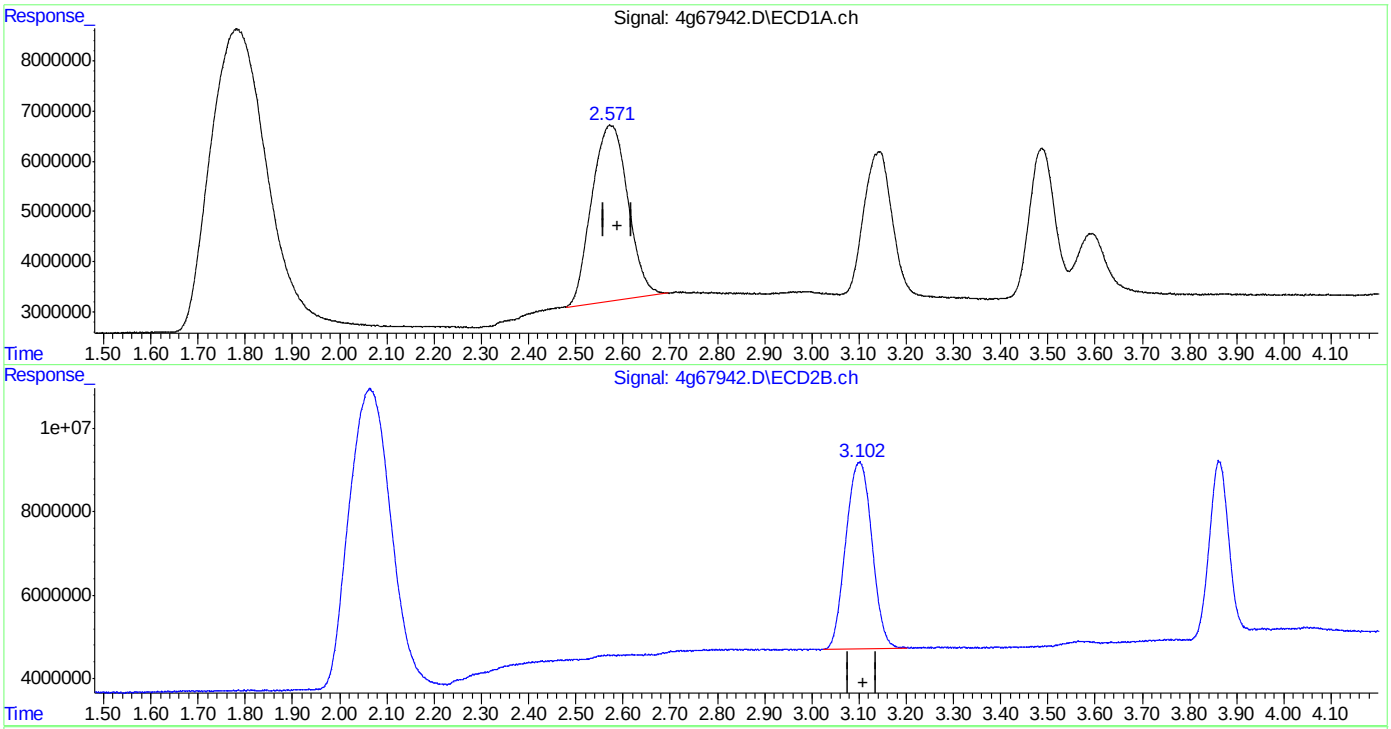
4PST1778.M Fri May 06 09:35:58 2016 RPT1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67942.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016   7:42 am
Operator  : brittanp
Sample    : ddt
Misc      : op93644,g4g1782,15.5,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 07:55:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(2) Tetrachloro-m-xylene (SAB)

2.571min 21.689 PPB m

response 187347678

(2) Tetrachloro-m-xylene #2 (SAB)

3.102min 22.216 PPB

response 171313848

(+) = Expected Retention Time

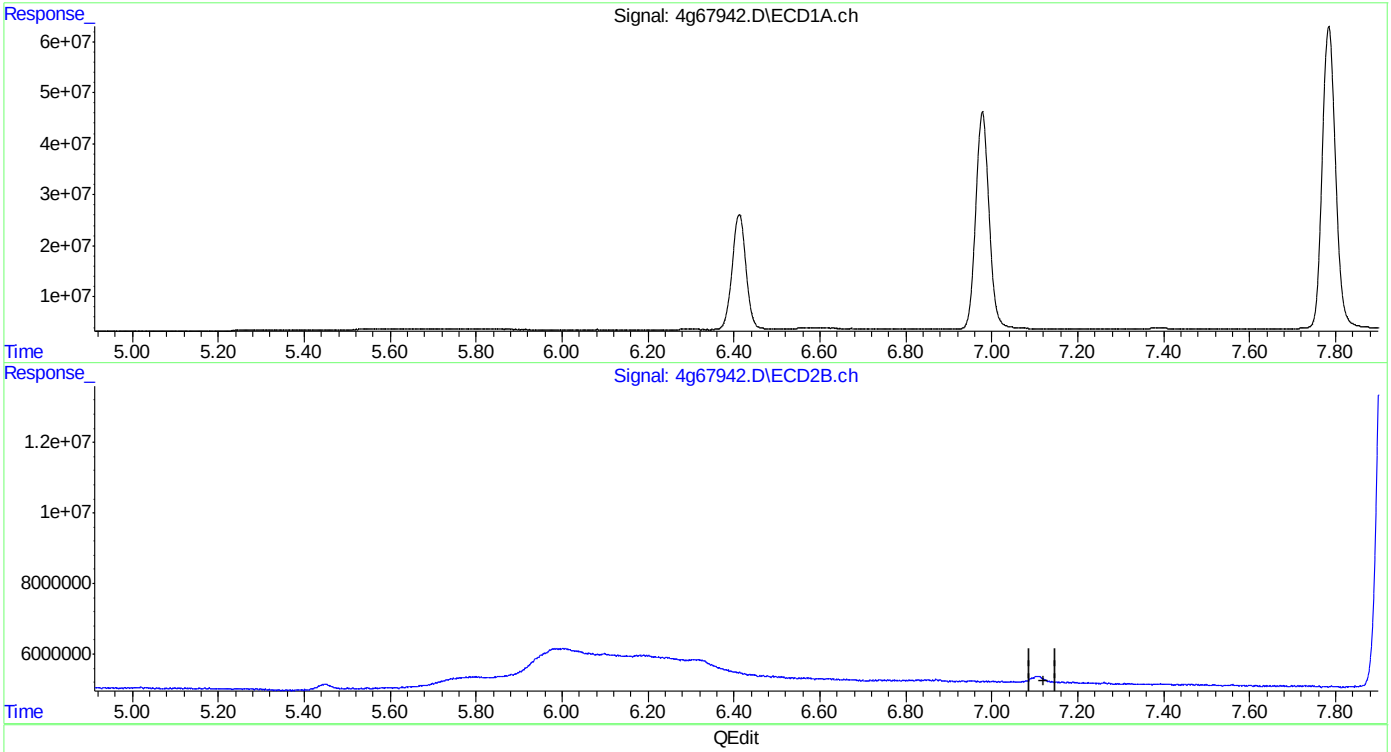
4PST1778.M Fri May 06 09:36:05 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67942.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:42 am
Operator : brittanp
Sample : ddt
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 07:55:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
0.000min 0.000 PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000 PPB
response 0

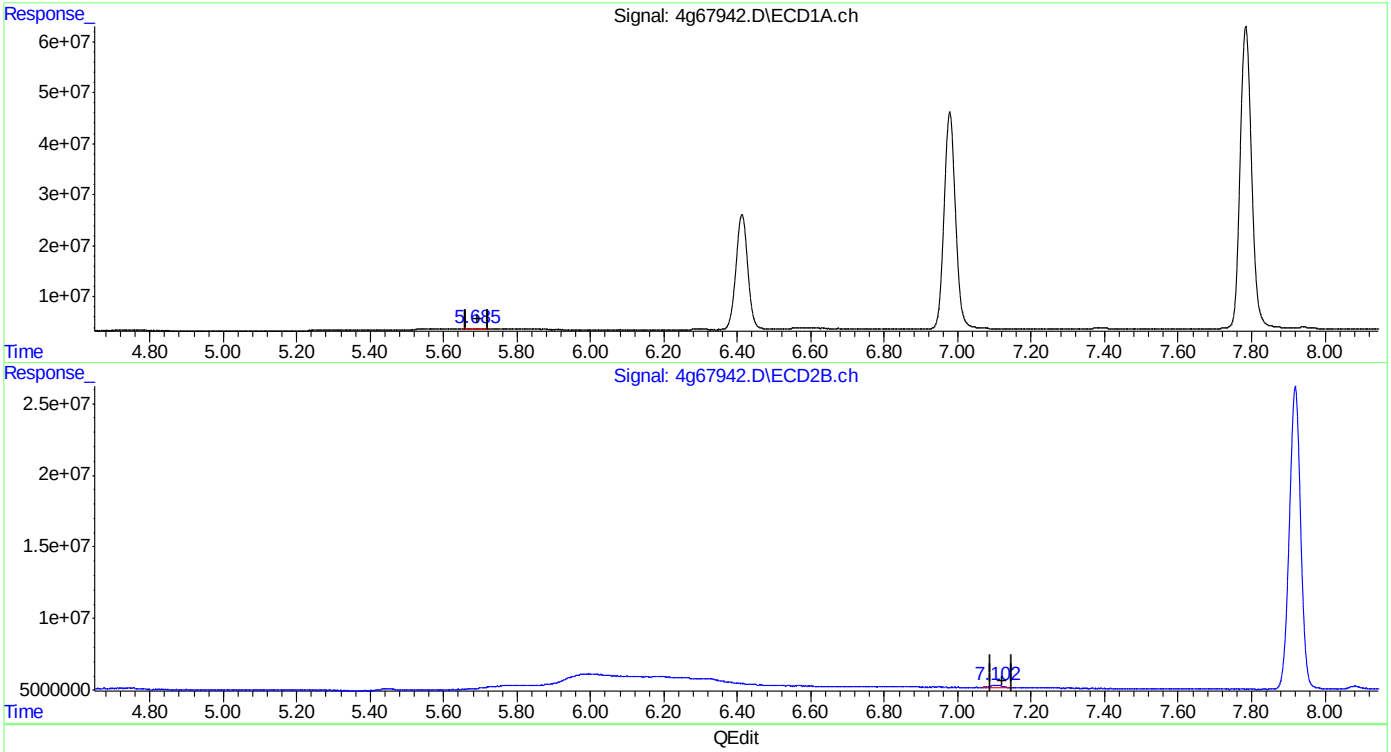
(+) = Expected Retention Time
4PST1778.M Fri May 06 09:36:24 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67942.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:42 am
Operator : brittanp
Sample : ddt
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 07:55:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
5.685min 0.288 PPB m
response 2546601

(13) 4,4'-DDE #2 (B)
7.102min 0.394 PPB m
response 3502915

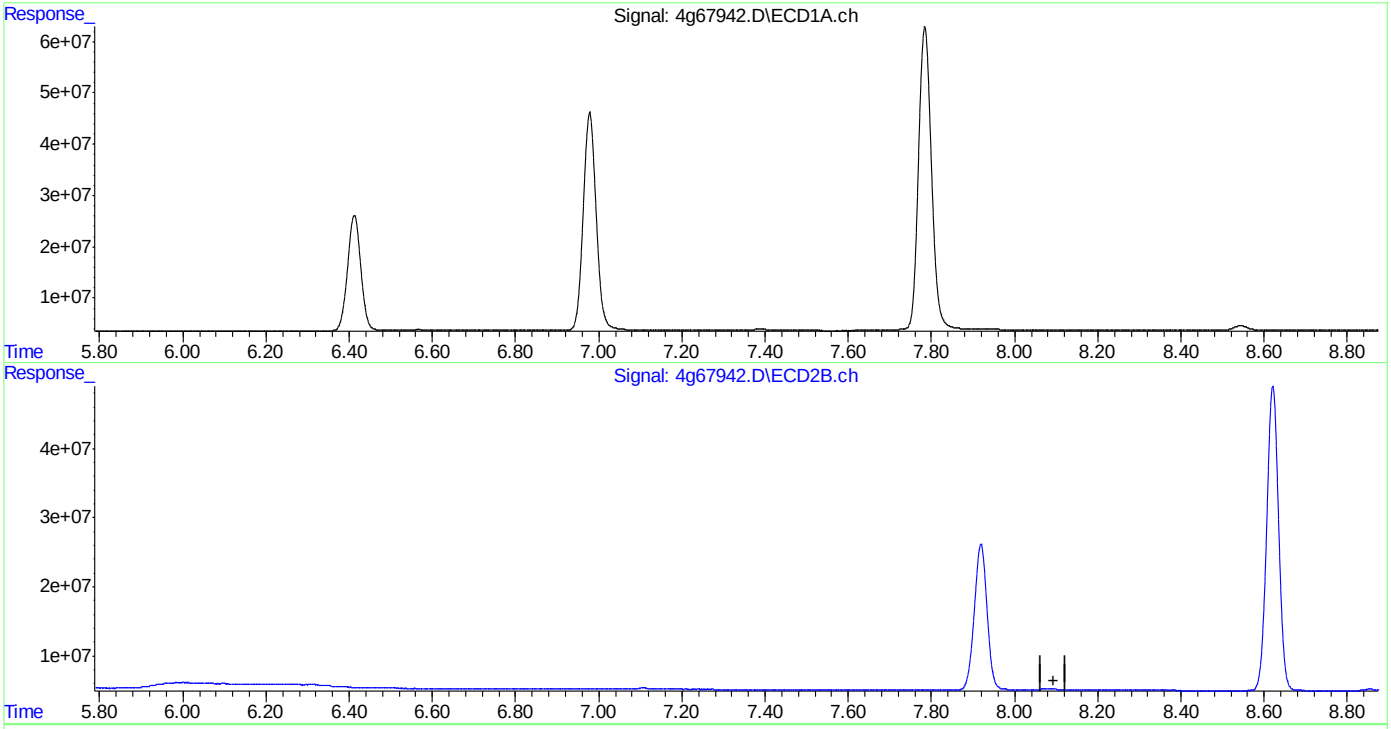
(+) = Expected Retention Time
4PST1778.M Fri May 06 09:36:42 2016 RPT1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67942.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016   7:42 am
Operator  : brittanp
Sample    : ddt
Misc      : op93644,g4g1782,15.5,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 07:55:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(16) 4,4'-DDD (A)
0.000min 0.000 PPB
response 0

(16) 4,4'-DDD #2 (A)
0.000min 0.000 PPB
response 0

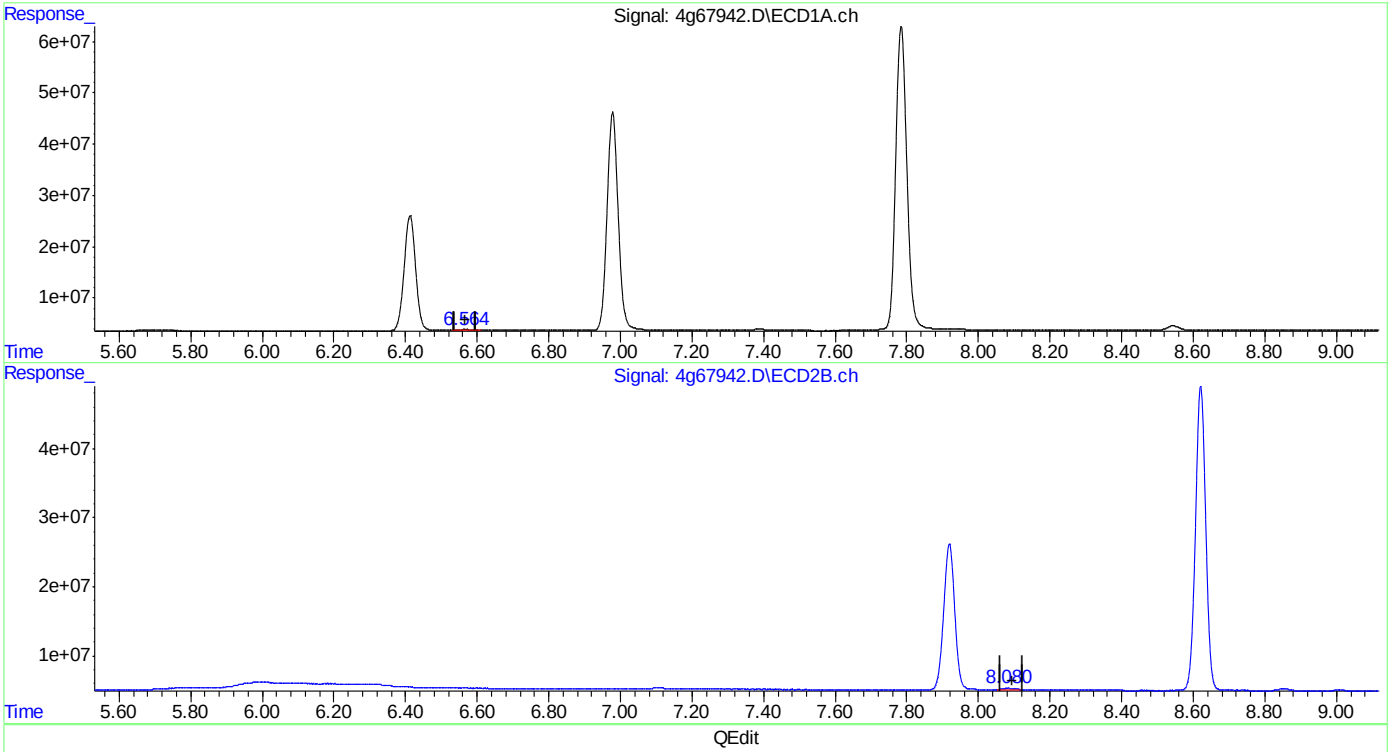
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67942.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:42 am
Operator : brittanp
Sample : ddt
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 07:55:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(16) 4,4'-DDD (A)
6.564min 0.405 PPB m
response 3032566

(16) 4,4'-DDD #2 (A)
8.080min 0.597 PPB m
response 4285767

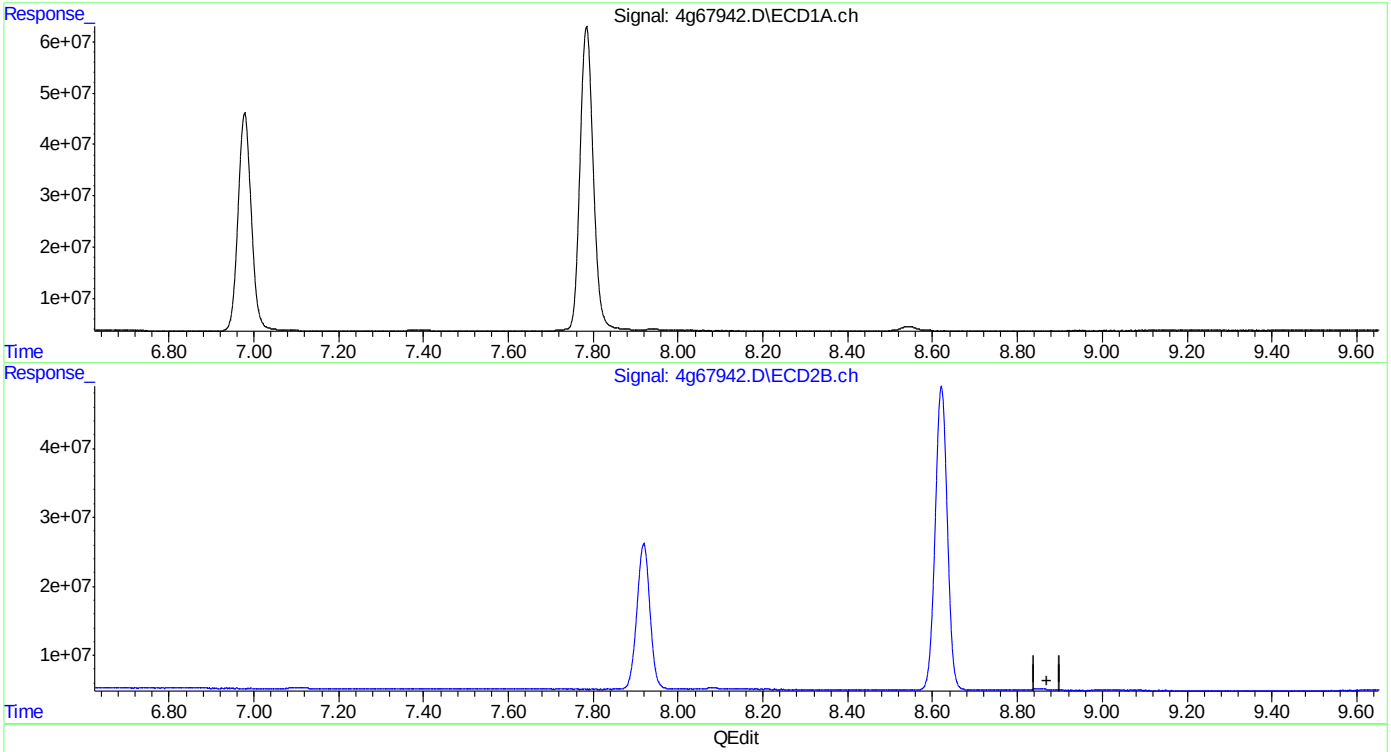
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67942.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:42 am
Operator : brittanp
Sample : ddt
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 07:55:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(19) Endrin Aldehyde (B)
0.000min 0.000 PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000 PPB
response 0

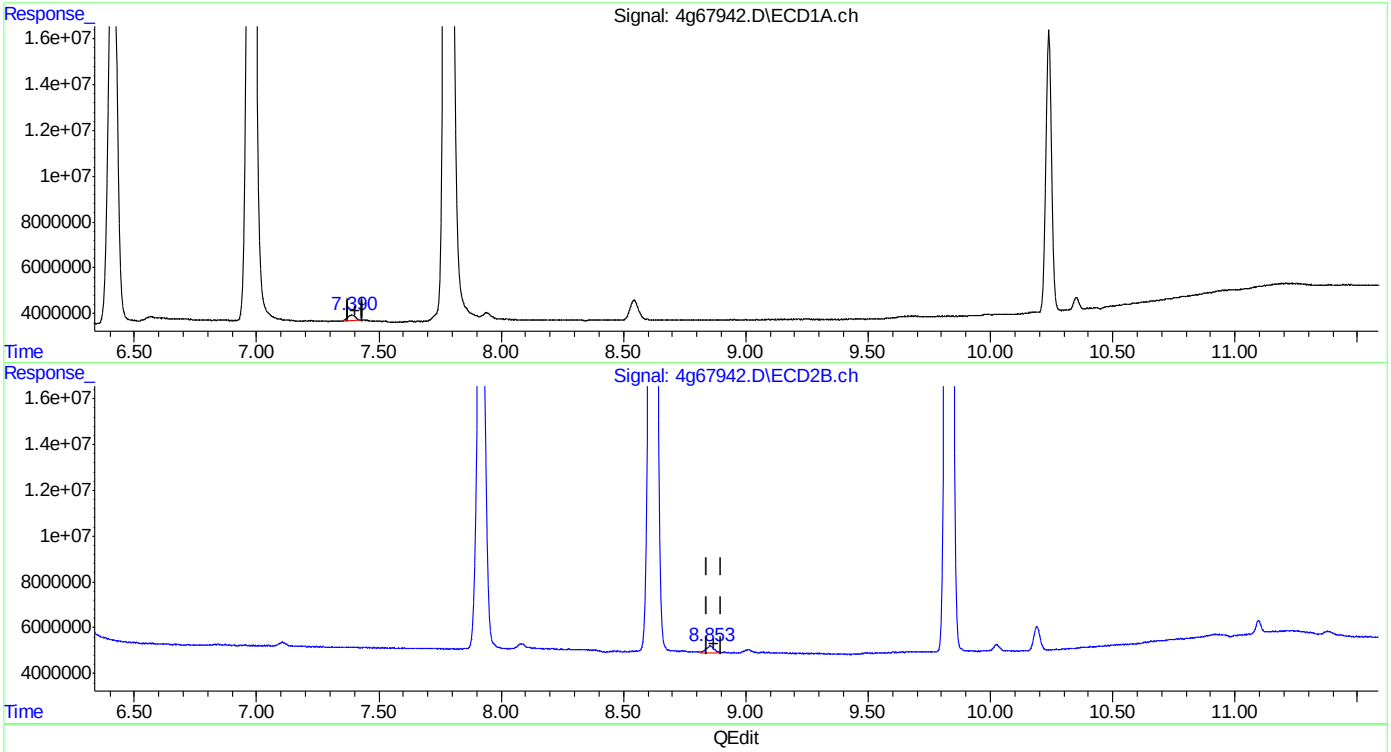
(+) = Expected Retention Time
4PST1778.M Fri May 06 09:37:10 2016 RPT1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67942.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016   7:42 am
Operator  : brittanp
Sample    : ddt
Misc      : op93644,g4g1782,15.5,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 07:55:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



(19) Endrin Aldehyde (B)

7.390min 0.817 PPB m

response 5873647

(19) Endrin Aldehyde #2 (B)

8.853min 1.092 PPB m

response 6487849

(+) = Expected Retention Time

4PST1778.M Fri May 06 09:37:24 2016 RPT1

SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/09/16 06:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:19:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.787	2.062	534.7E6	489.2E6	50.000	50.000
25) I	1-bromo-2...	1.787	2.062	534.7E6	489.2E6	50.000	50.000
31) I	1-bromo-2...	1.787	2.062	534.7E6	489.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.575	3.097	204.0E6	187.4E6	22.126	21.746
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	55.32%	54.36%
24) SA	Decachlor...	10.239	11.639	234.4E6	146.4E6	26.979	23.958
	Spiked Amount 40.000			Recovery	=	67.45%	59.89%
	Target Compounds						
13) B	4,4'-DDE	5.692	7.104	5367484	8646322	0.569m	0.871 #
15) MA	Endrin	6.411	7.917	590.9E6	522.4E6	62.541	59.106
16) A	4,4'-DDD	6.632f	8.083	22121084	4963083	2.766m	0.619m#
18) MA	4,4'-DDT	6.981	8.620	811.2E6	952.4E6	103.301	135.779 #
19) B	Endrin Al...	7.394	8.848	5587284	5381880	0.728	0.811m
23) B	Endrin Ke...	8.546	10.190	21667838	19578143	2.248	2.439

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

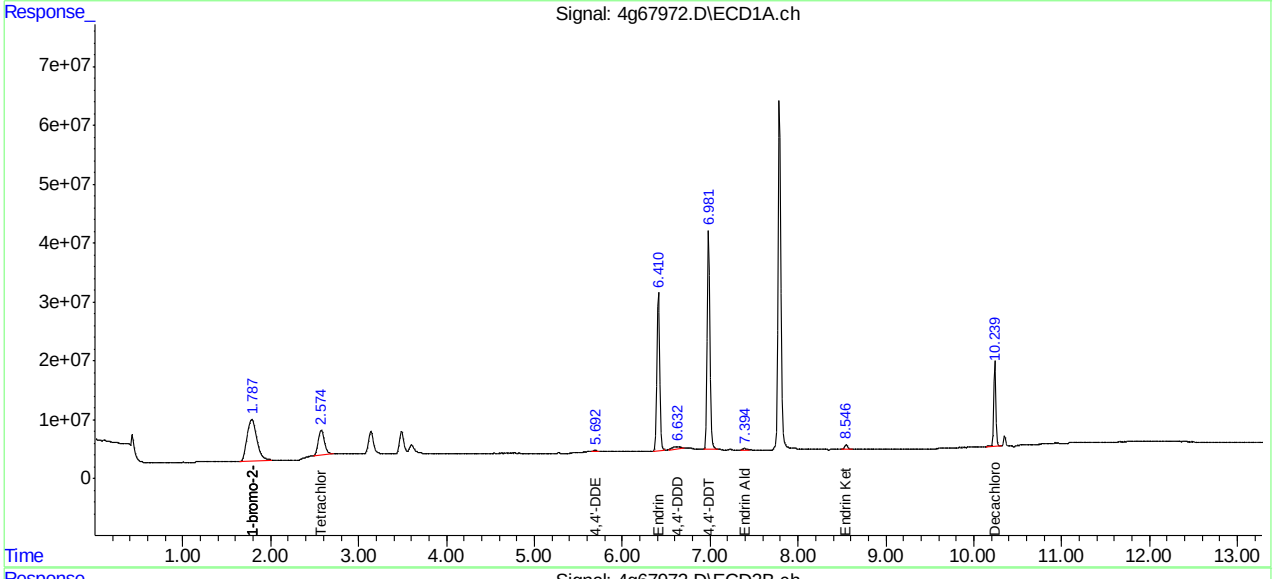
9.5.5
9

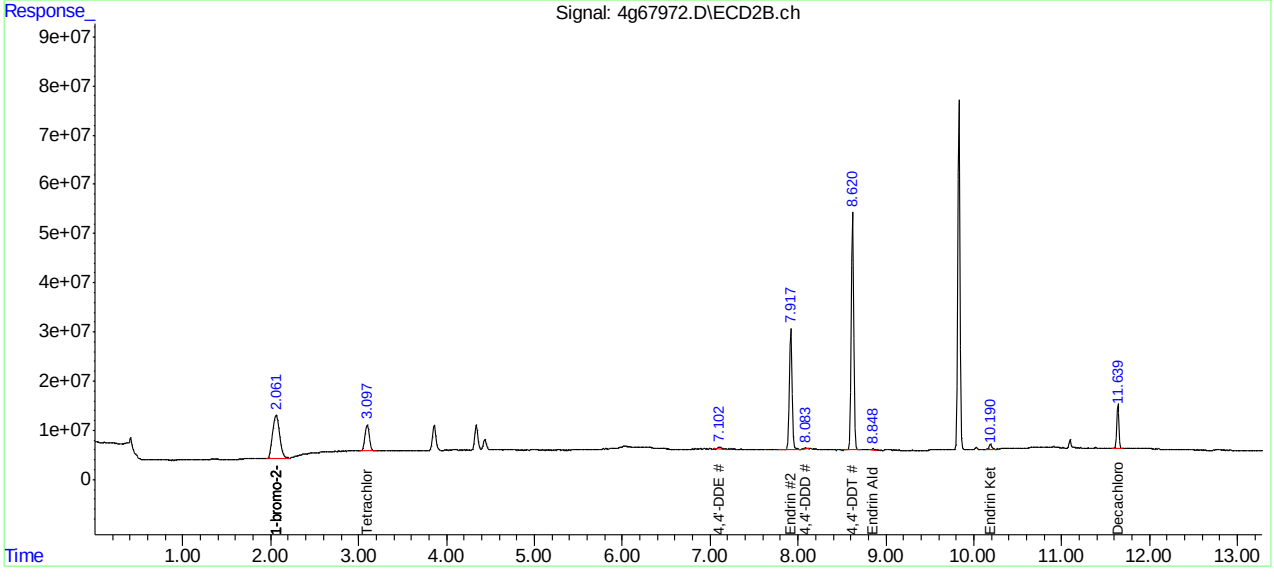
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:19:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1782-DDT	**Method:**	SW846 8081B
Lab FileID:	4G67972.D	**Analyst approved:**	05/06/16 18:24 Dhara Saparia
Injection Time:	05/06/16 14:42	**Supervisor approved:**	05/09/16 06:55 Gwendolyn Burns

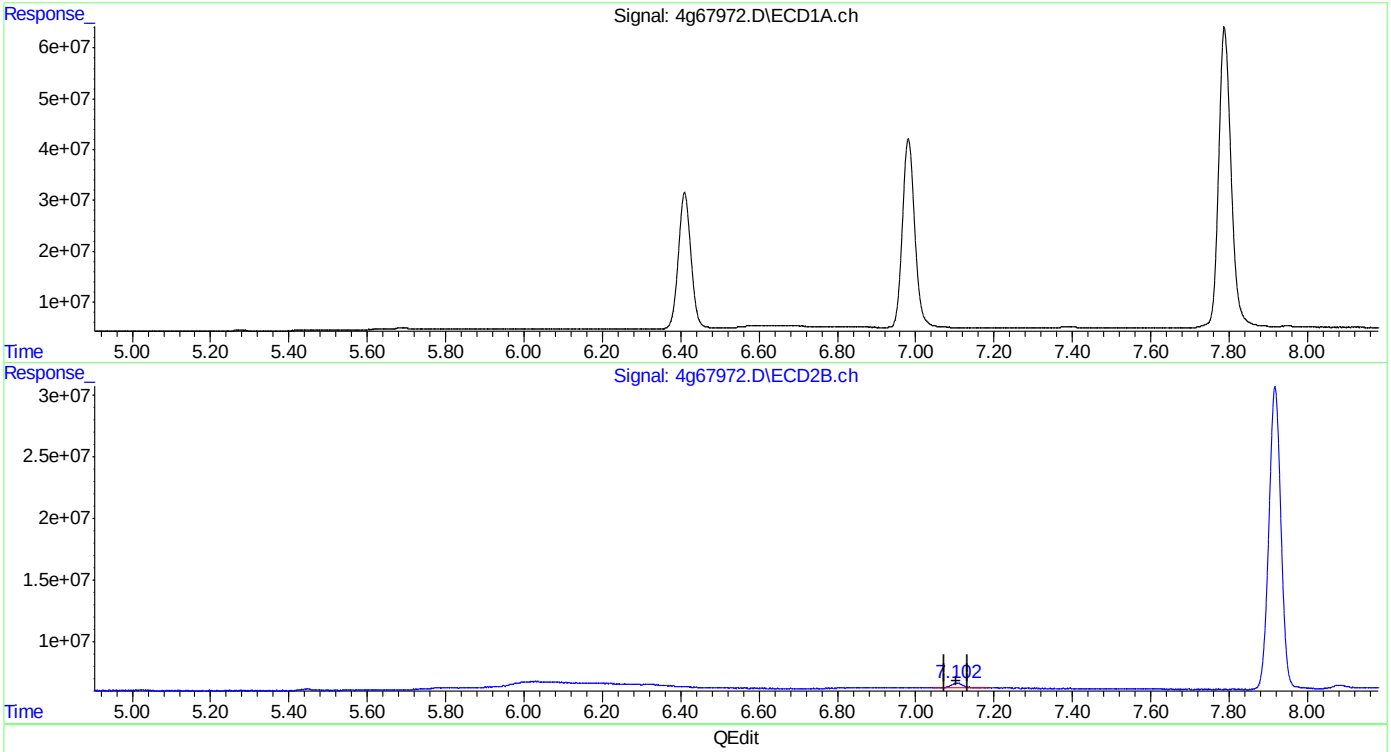
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	5.69	Poor instrument integration
4,4'-DDD	72-54-8	1	6.63	Poor instrument integration
4,4'-DDD	72-54-8	2	8.08	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.85	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
0.000min 0.000 PPB
response 0

(13) 4,4'-DDE #2 (B)
7.104min 0.871 PPB
response 8646322

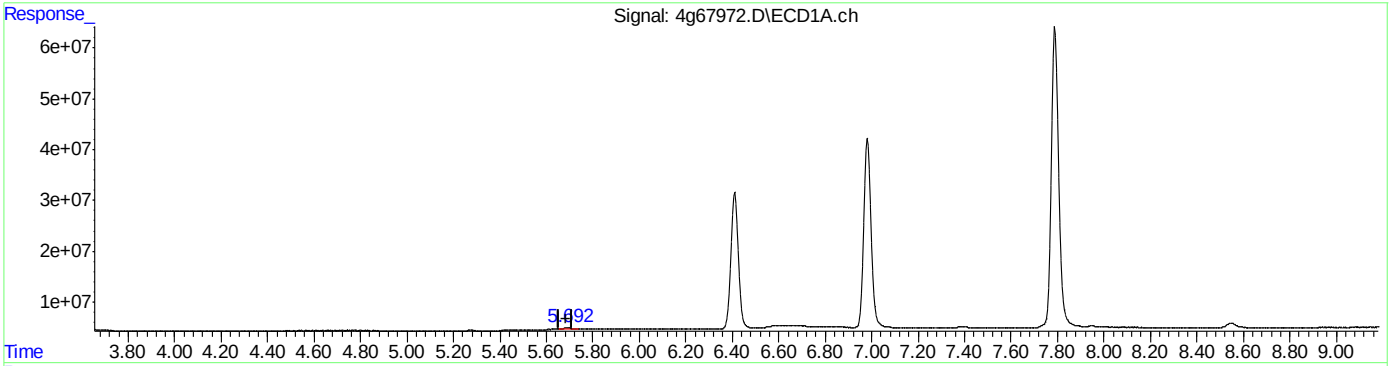
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:18:34 2016 RPT1

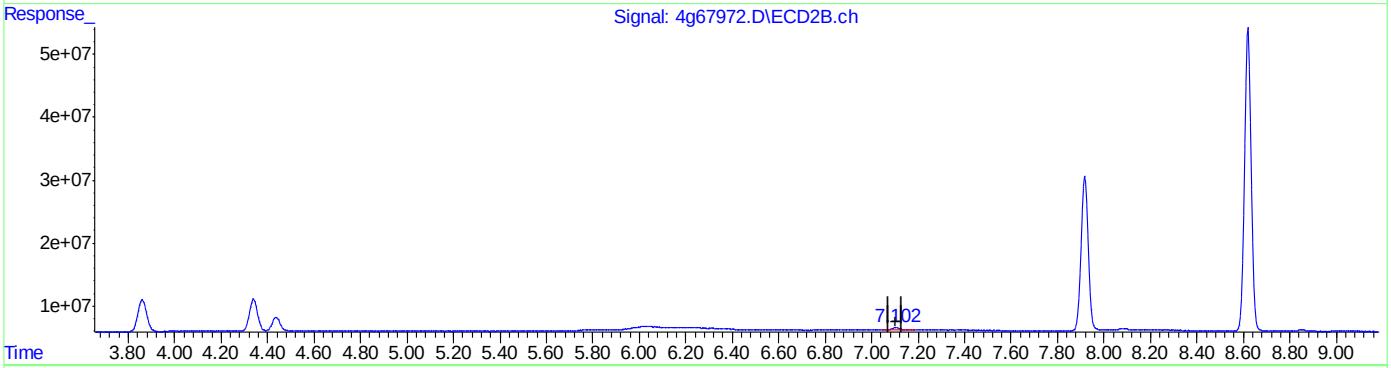
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016   2:42 pm
Operator  : dharas
Sample    : ddt
Misc      : op93657,g4g1782,100,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```





QEdit

(13) 4,4'-DDE (B)

5.692min 0.569 PPB m

response 5367484

(13) 4,4'-DDE #2 (B)

7.104min 0.871 PPB

response 8646322

(+) = Expected Retention Time

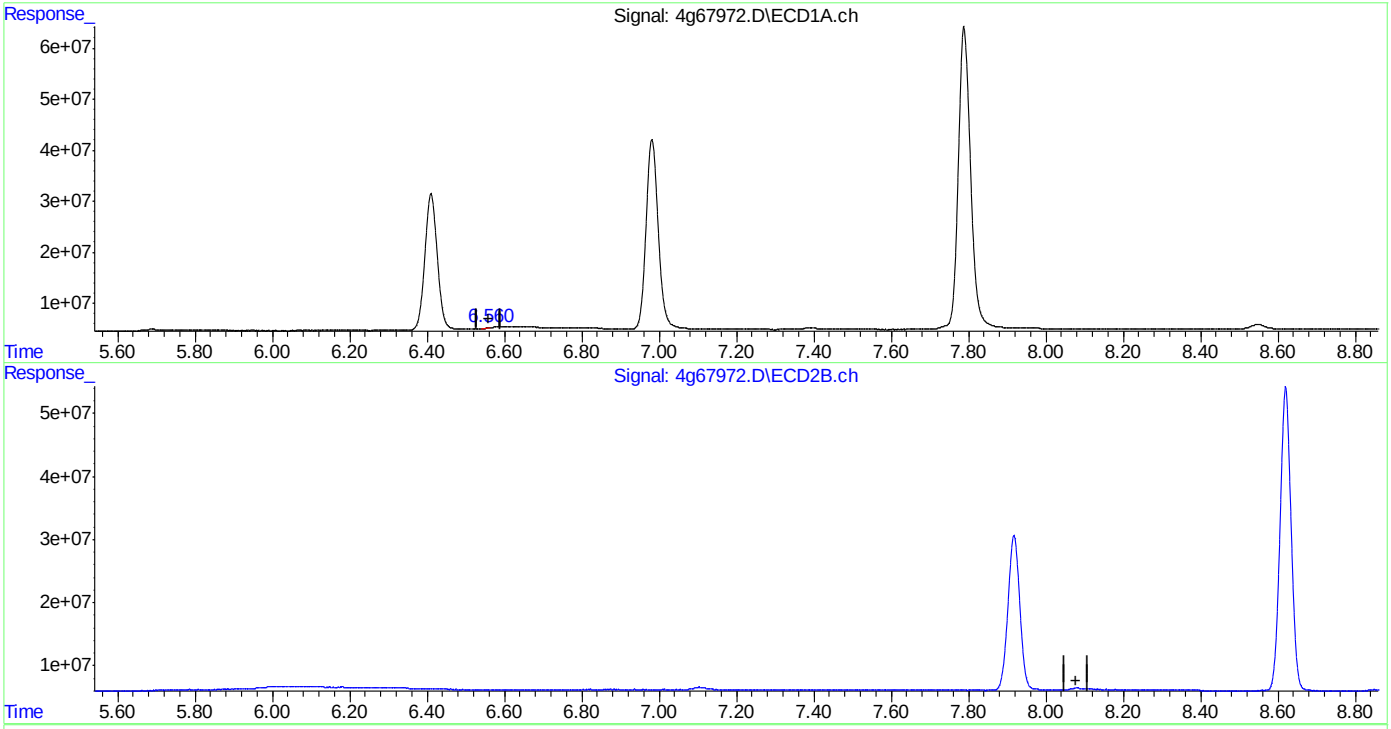
4PST1778.M Fri May 06 18:18:47 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(16) 4,4'-DDD (A)
6.561min 0.065 PPB
response 522307

(16) 4,4'-DDD #2 (A)
0.000min 0.000 PPB
response 0

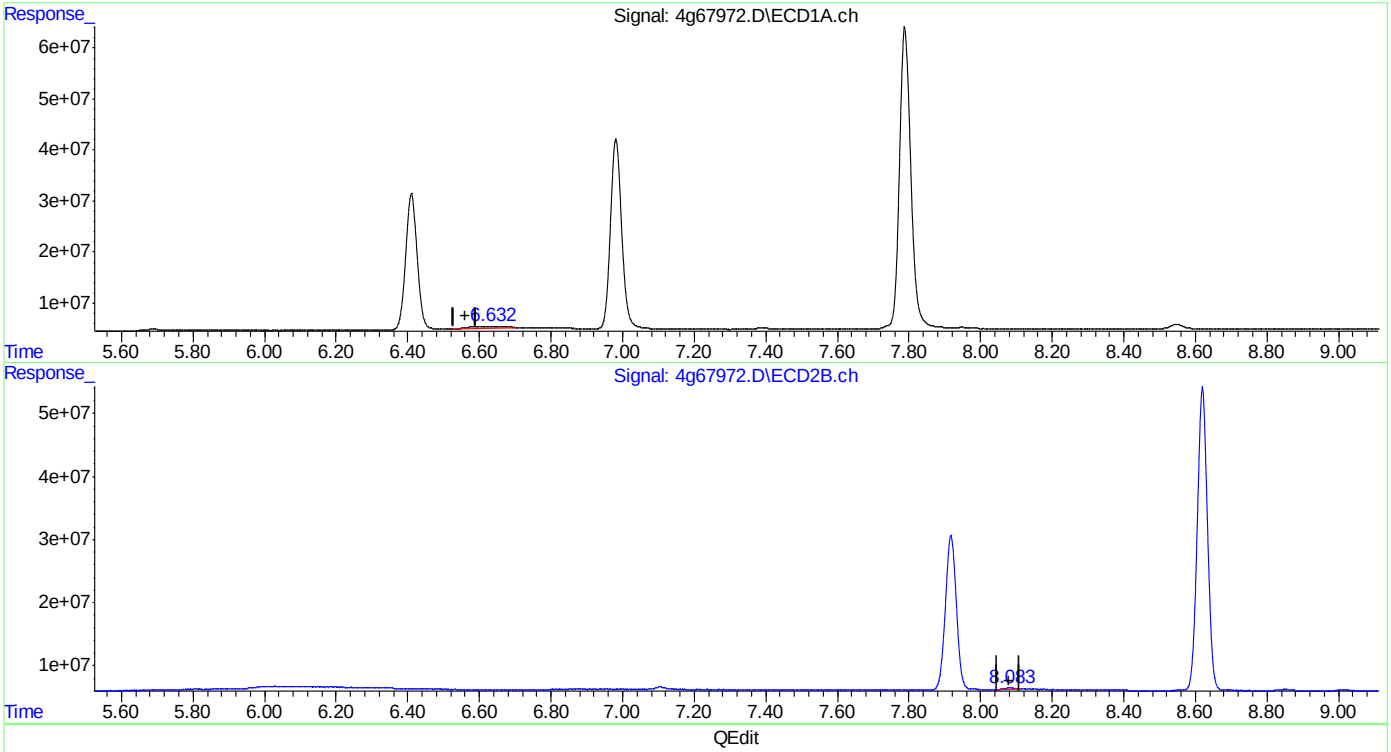
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(16) 4,4'-DDD (A)
6.632min 2.766 PPB m
response 22121084

(16) 4,4'-DDD #2 (A)
8.083min 0.619 PPB m
response 4963083

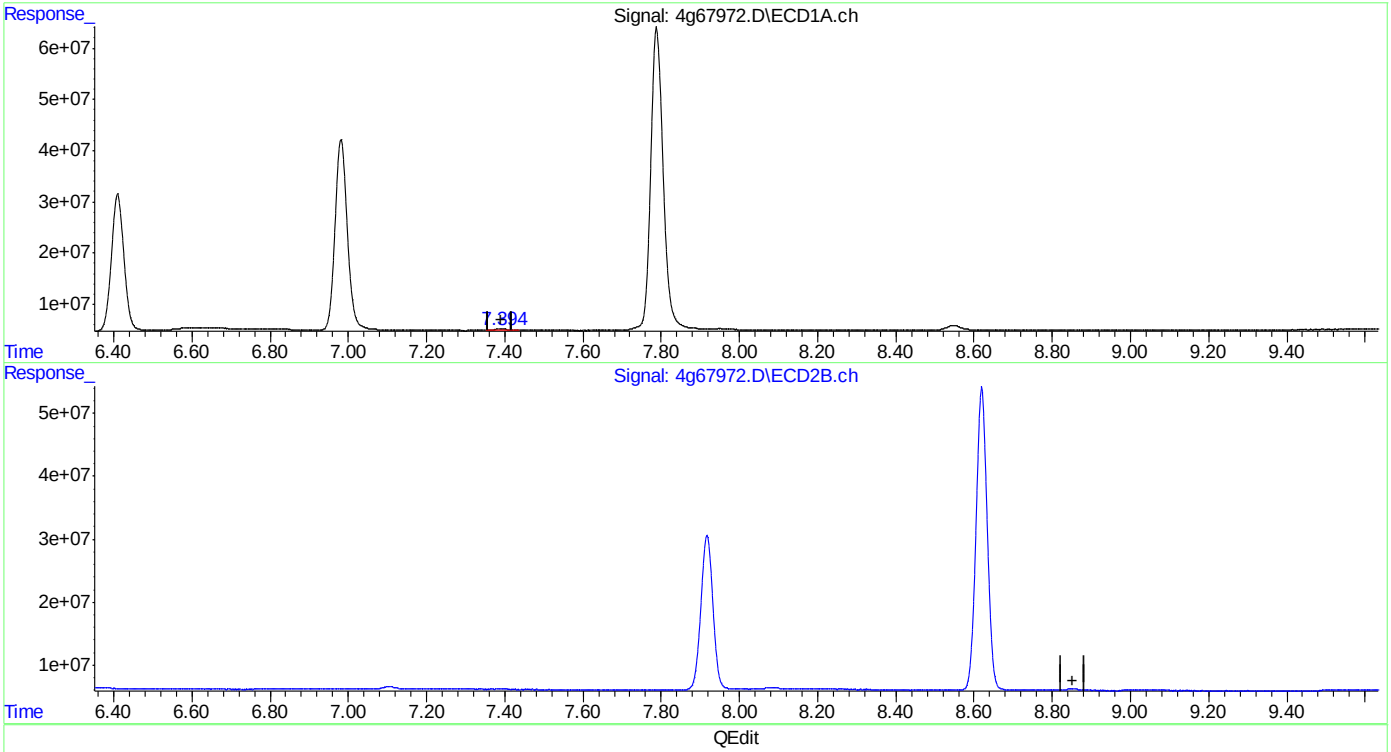
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.394min 0.728 PPB
response 5587284

(19) Endrin Aldehyde #2 (B)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time
4PST1778.M Fri May 06 18:19:37 2016 RPT1

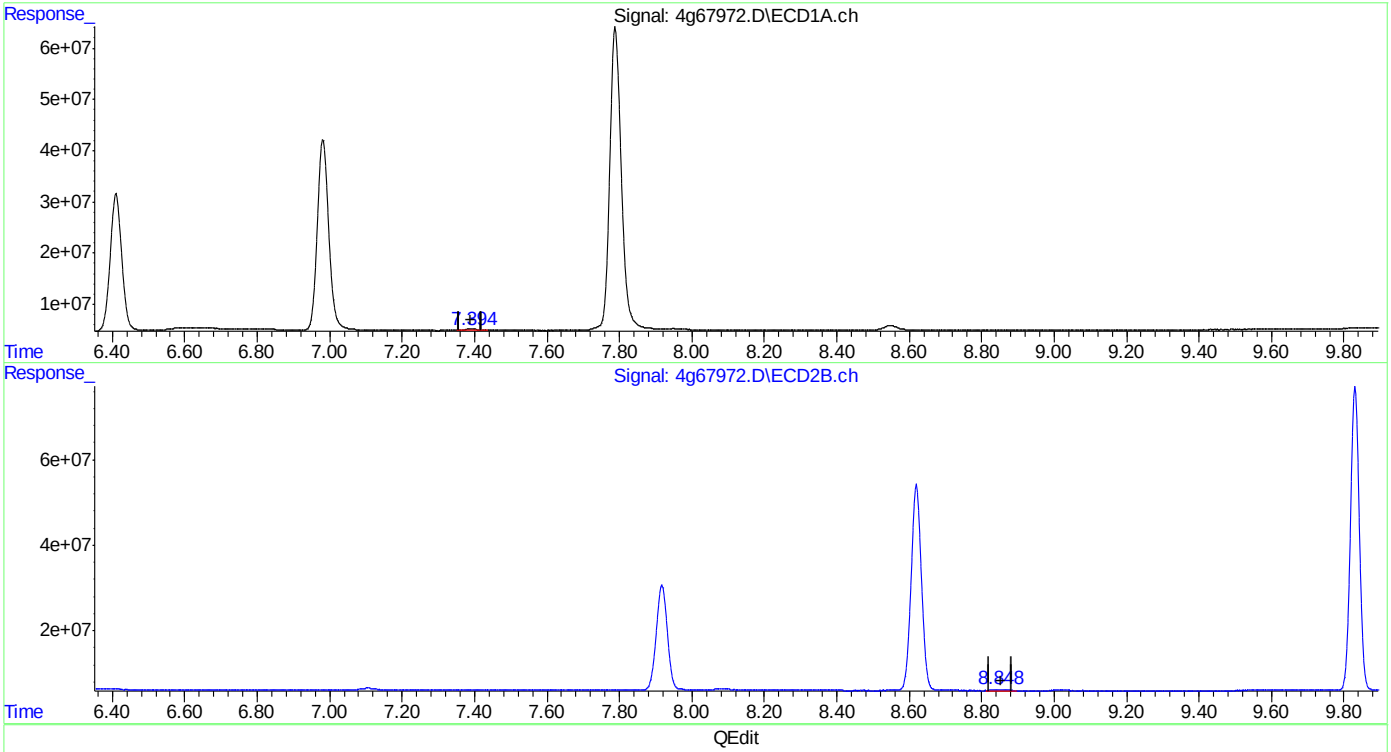
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.394min 0.728 PPB
response 5587284

(19) Endrin Aldehyde #2 (B)
8.848min 0.811 PPB m
response 5381880

(+) = Expected Retention Time
4PST1778.M Fri May 06 18:19:52 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On : 27 Apr 2016 11:42 am Operator: dharas
Sample : ic3973-1 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:51 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	56807008	897.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	1365731	16978659	1.258m	1.203
Spiked Amount	40.000	Range	30 - 150	Recovery	=	3.15%#	3.01%#
24) SA	Decachlorobiphen	8.94	10.86	2302680	10942426	1.535	1.179
Spiked Amount	40.000			Recovery	=	3.84%	2.95%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	1329092	27109613	1.031	1.273
4) MA	gamma-BHC	2.50	3.47	1372193	24399756	1.115	1.275
5) MA	Heptachlor	2.98	4.04	1538640	22108606	1.164	1.285
6) B	beta-BHC	2.59	3.56	767796	10223407	1.226m	1.257
7) B	delta-BHC	2.76	3.95	1042591	21214111	0.962m	1.207
8) MB	Aldrin	3.30	4.49	1508472	25238653	1.226	1.467
9) B	Heptachlor Epoxi	3.99	5.31	1417990	20610215	1.158	1.324
10) B	gamma-Chlordane	4.15	5.60	1640412	20078620	1.271	1.289
11) B	alpha-Chlordane	4.31	5.83	1689199	22438437	1.357	1.490
12) A	Endosulfan I	4.49	5.92	1602571	21389391	1.354	1.454
13) B	4,4'-DDE	4.44	6.10	1431032	19160828	1.259	1.236
14) MA	Dieldrin	4.80	6.36	1546996	19823864	1.291	1.204
15) MA	Endrin	5.12	6.86	1270051	17574377	1.133	1.230
16) A	4,4'-DDD	5.28	7.06	937505	18234050	0.993	1.386
17) B	Endosulfan II	5.44	7.21	1205242	19601127	1.060	1.378
18) MA	4,4'-DDT	5.67	7.58	796168	7231675	0.885	0.702m
19) B	Endrin Aldehyde	6.06	7.79	1164032	11880499	1.208	1.077
20) B	Endosulfan Sulfa	6.74	8.26	1204108	13340599	1.165	1.114
21) A	Methoxychlor	6.45	8.84	671673	6175298	1.108m	1.130
22)	Mirex	6.53	9.14	1768056	12068702	1.540	1.318
23) B	Endrin Ketone	7.17	9.22	1182565	12354814	0.980	0.970

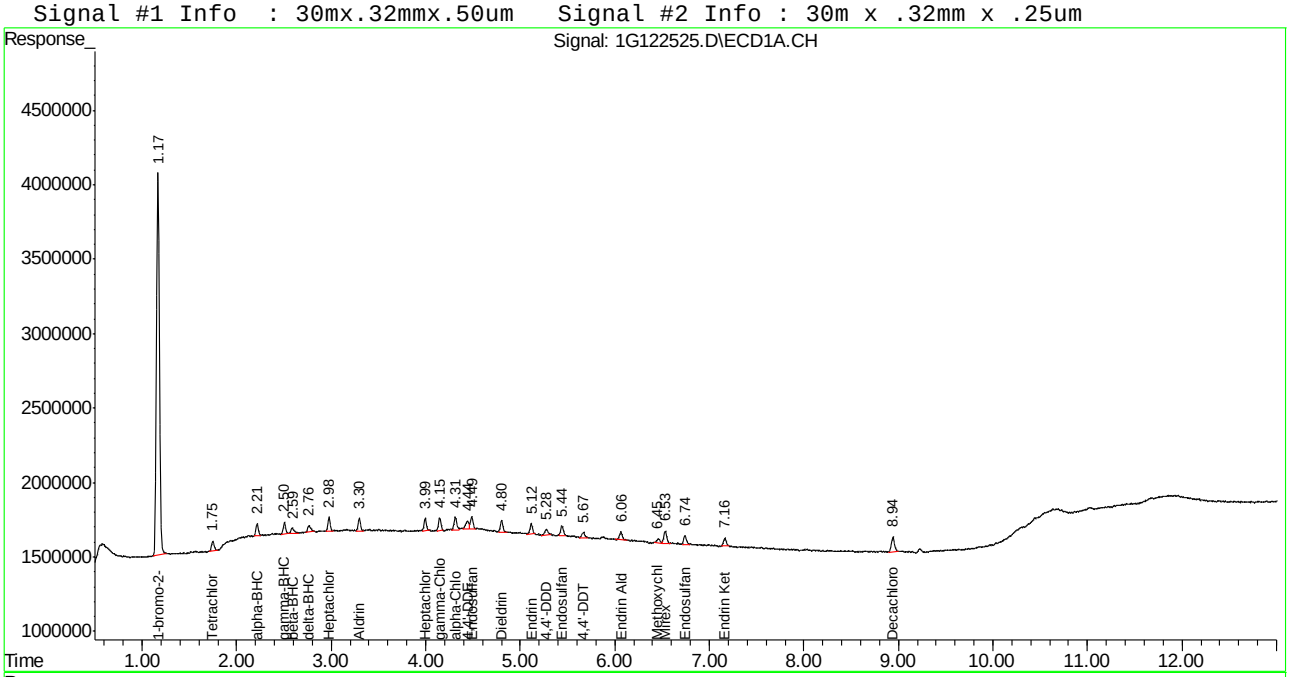
(f)=RT Delta > 1/2 Window (m)=manual int.

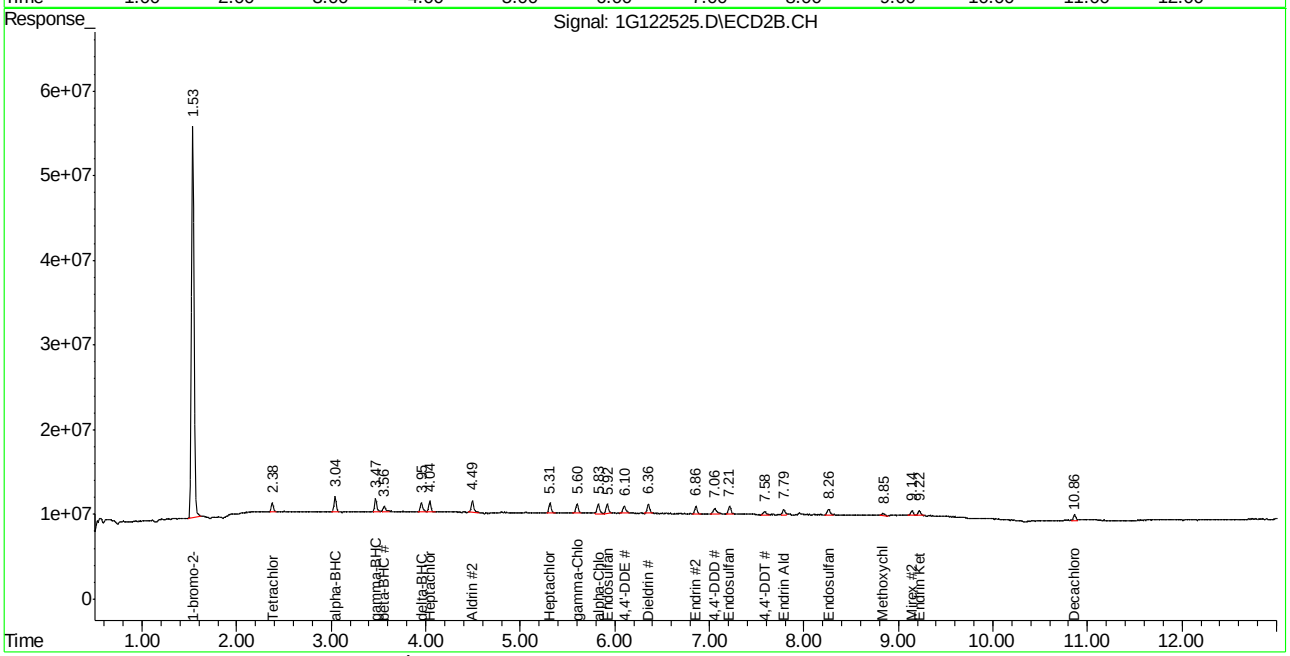
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On : 27 Apr 2016 11:42 am Operator: dharas
Sample : ic3973-1 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:51 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

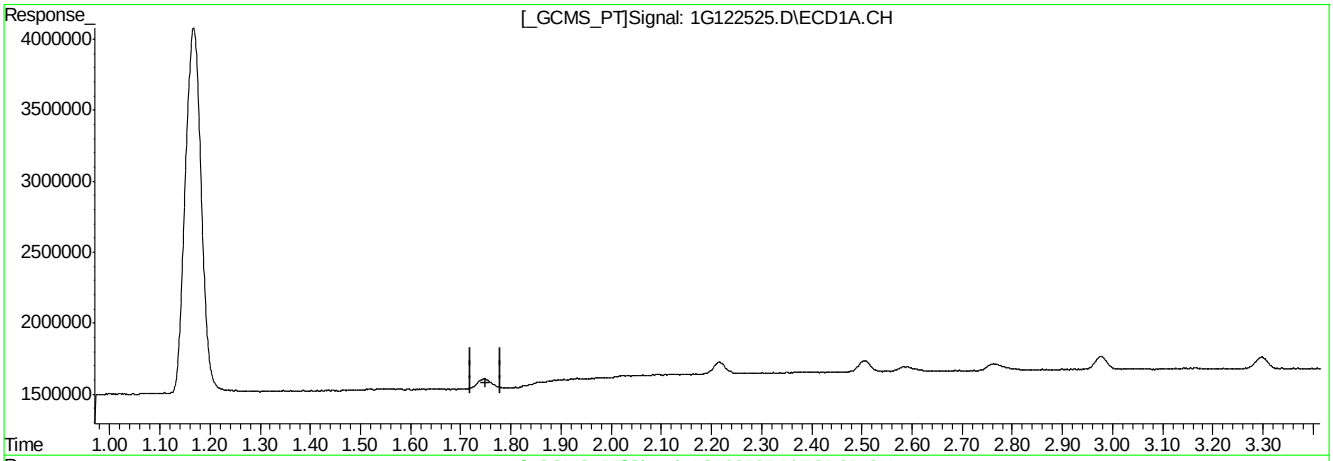
Sample Number:	G1G3973-IC3973	**Method:**	SW846 8081B
Lab FileID:	1G122525.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 11:42	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

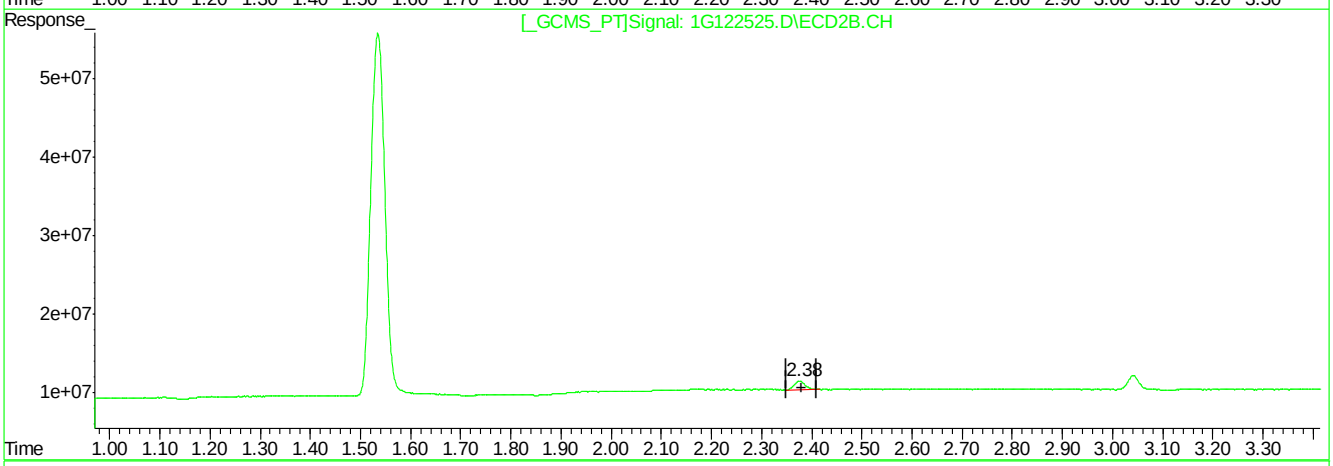
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.75	Poor instrument integration
beta-BHC	319-85-7	1	2.59	Poor instrument integration
delta-BHC	319-86-8	1	2.76	Poor instrument integration
Methoxychlor	72-43-5	1	6.45	Poor instrument integration
4,4'-DDT	50-29-3	2	7.58	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

0.00min 0.000PPB

response 0

(2) Tetrachloro-m-xylene #2 (SAB)

2.38min 1.203PPB

response 16978659

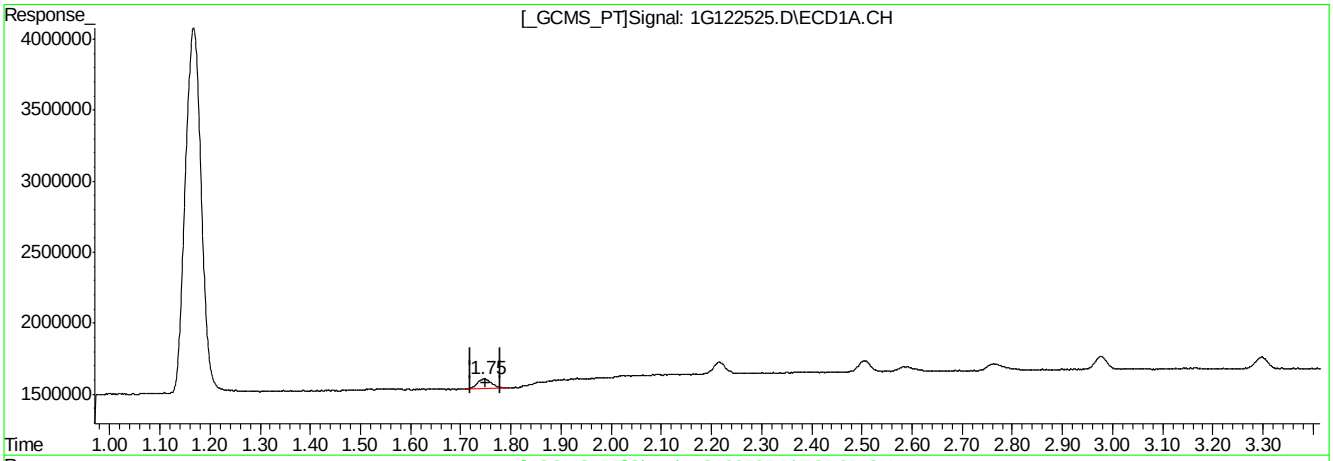
(+) = Expected Retention Time

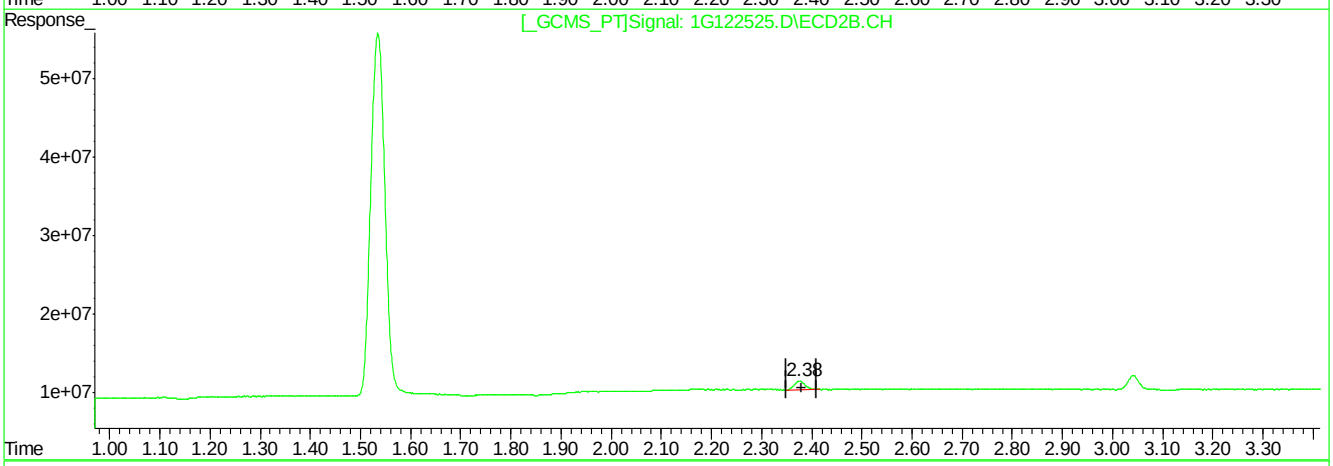
1G122525.D 1PST3973.M Wed Apr 27 14:08:47 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.75min 1.258PPB m

response 1365731

(2) Tetrachloro-m-xylene #2 (SAB)

2.38min 1.203PPB

response 16978659

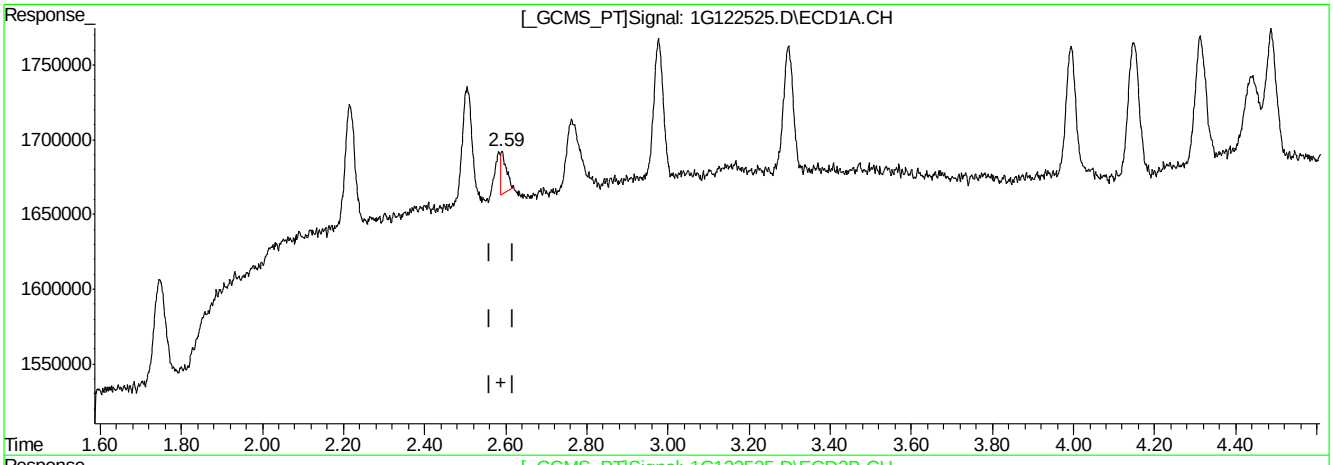
(+) = Expected Retention Time

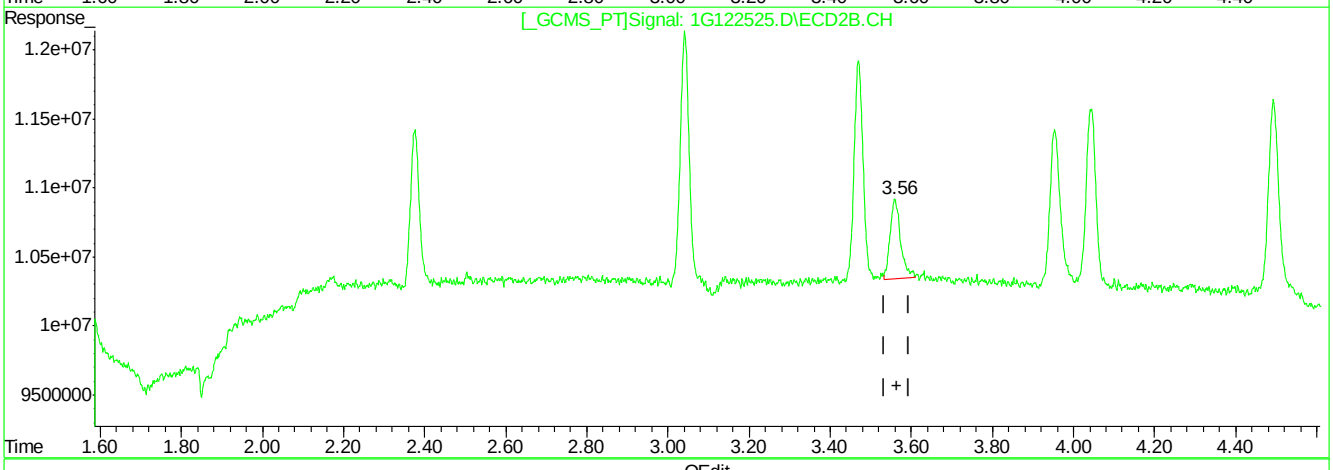
1G122525.D 1PST3973.M Wed Apr 27 14:08:57 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(6) beta-BHC (B)

2.59min 0.439PPB

response 274682

(6) beta-BHC #2 (B)

3.56min 1.257PPB

response 10223407

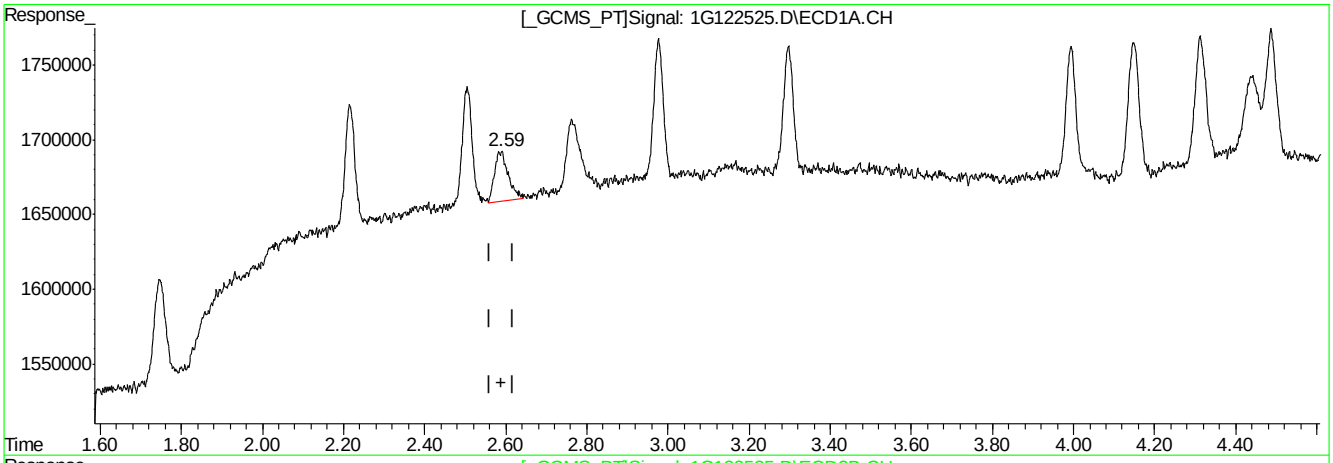
(+) = Expected Retention Time

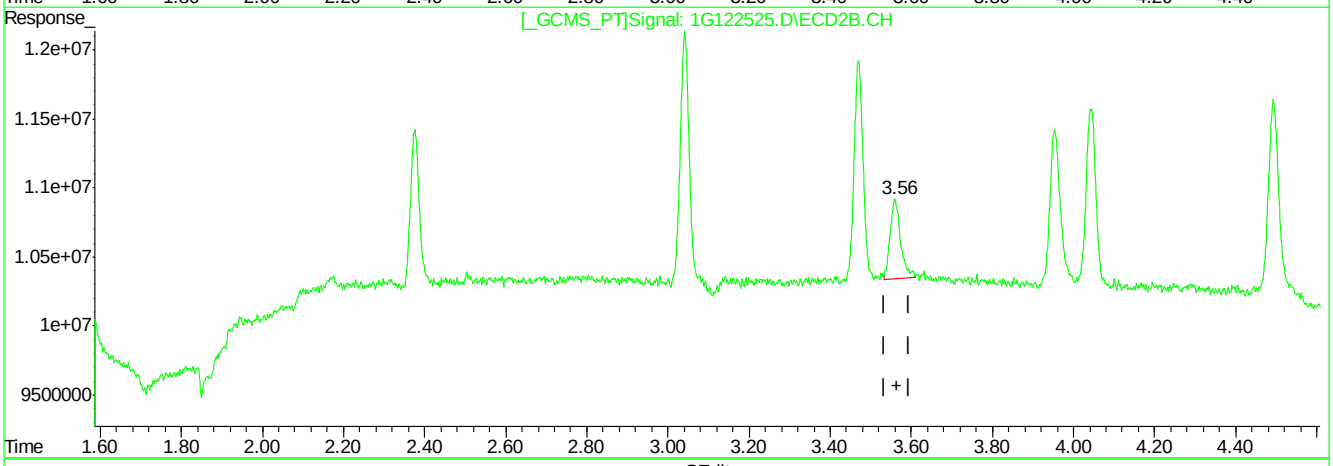
1G122525.D 1PST3973.M Wed Apr 27 14:09:04 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(6) beta-BHC (B)

2.59min 1.226PPB m

response 767796

(6) beta-BHC #2 (B)

3.56min 1.257PPB

response 10223407

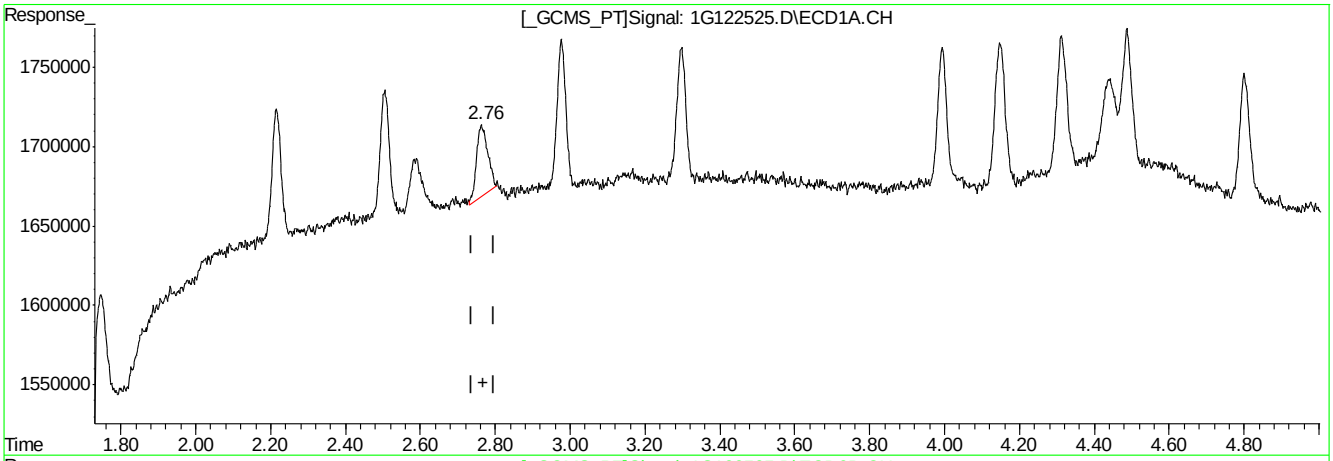
(+) = Expected Retention Time

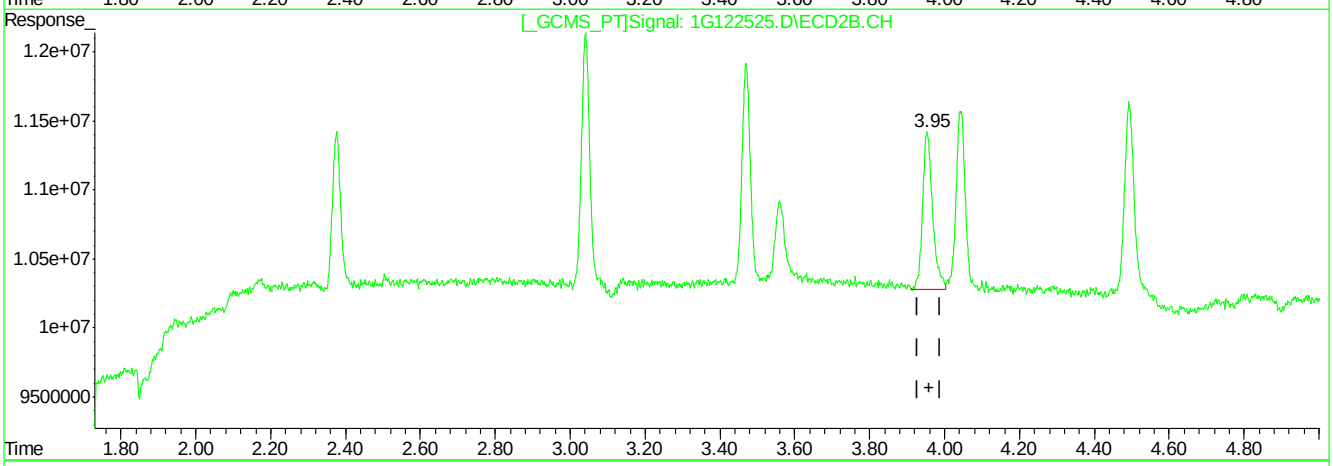
1G122525.D 1PST3973.M Wed Apr 27 14:09:15 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(7) delta-BHC (B)

2.76min 0.857PPB

response 929026

(7) delta-BHC #2 (B)

3.95min 1.207PPB

response 21214111

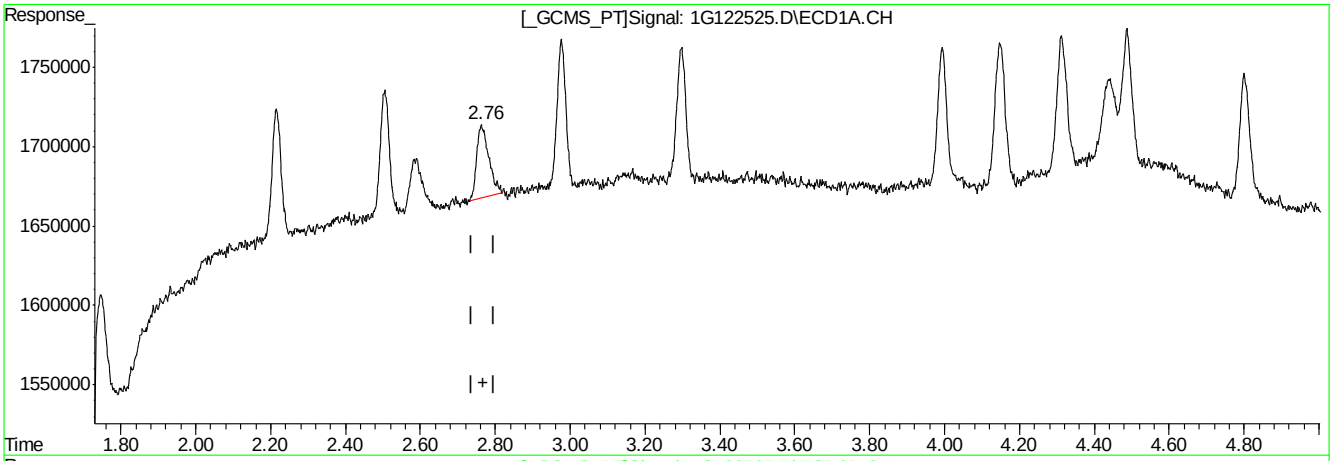
(+) = Expected Retention Time

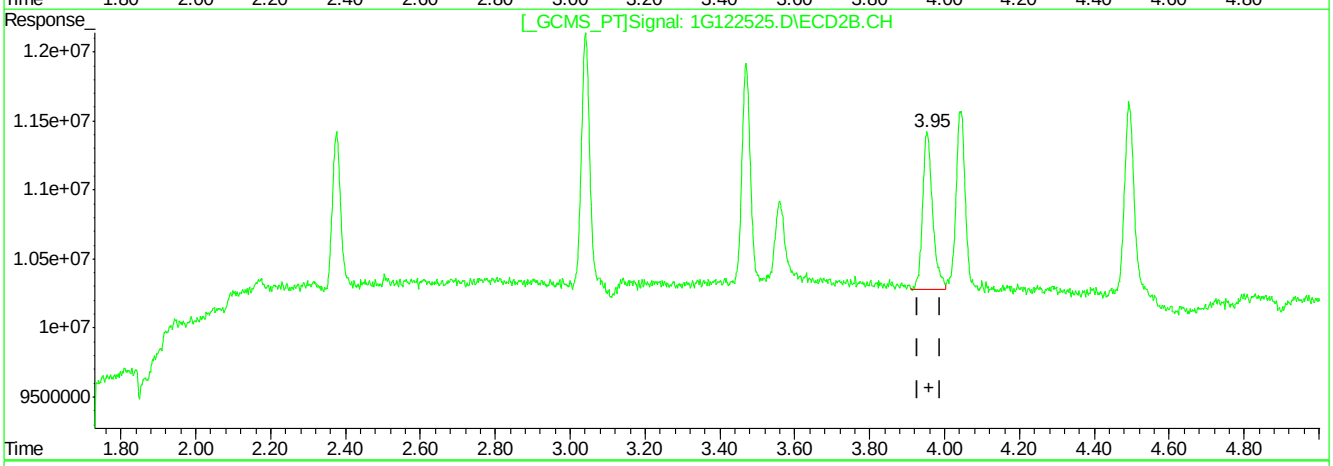
1G122525.D 1PST3973.M Wed Apr 27 14:09:25 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(7) delta-BHC (B)

2.76min 0.962PPB m

response 1042591

(7) delta-BHC #2 (B)

3.95min 1.207PPB

response 21214111

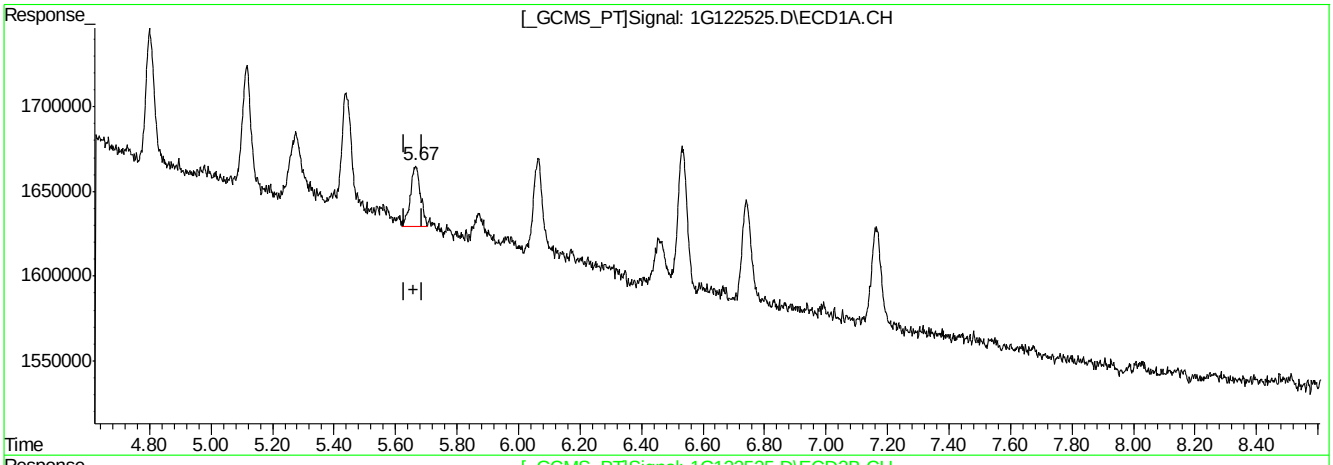
(+) = Expected Retention Time

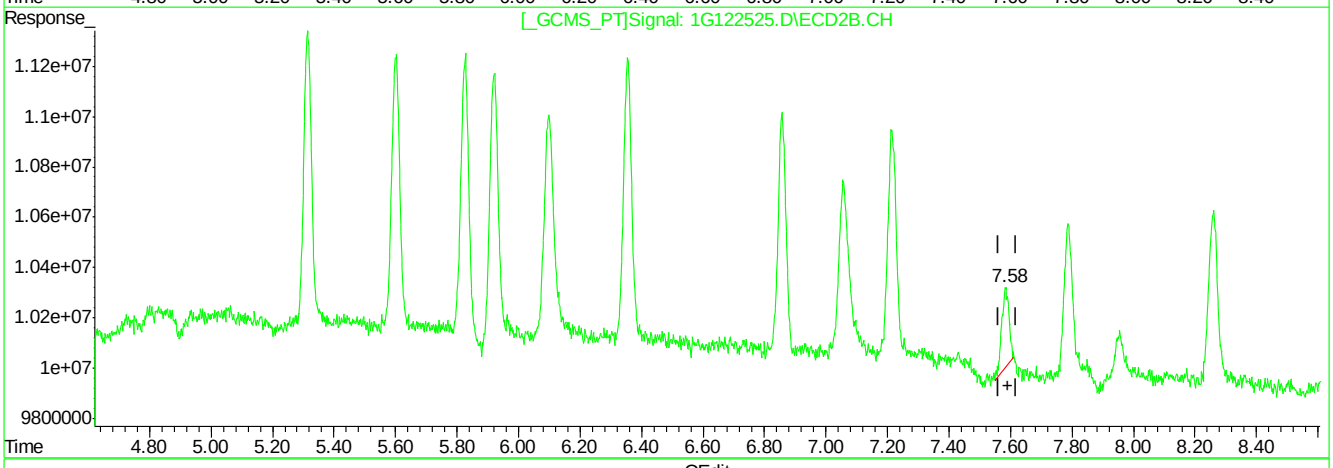
1G122525.D 1PST3973.M Wed Apr 27 14:09:35 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(18) 4,4'-DDT (MA)

5.67min 0.885PPB

response 796168

(18) 4,4'-DDT #2 (MA)

7.58min 0.510PPB

response 5252690

(+) = Expected Retention Time

1G122525.D 1PST3973.M Wed Apr 27 14:09:52 2016 RPT1

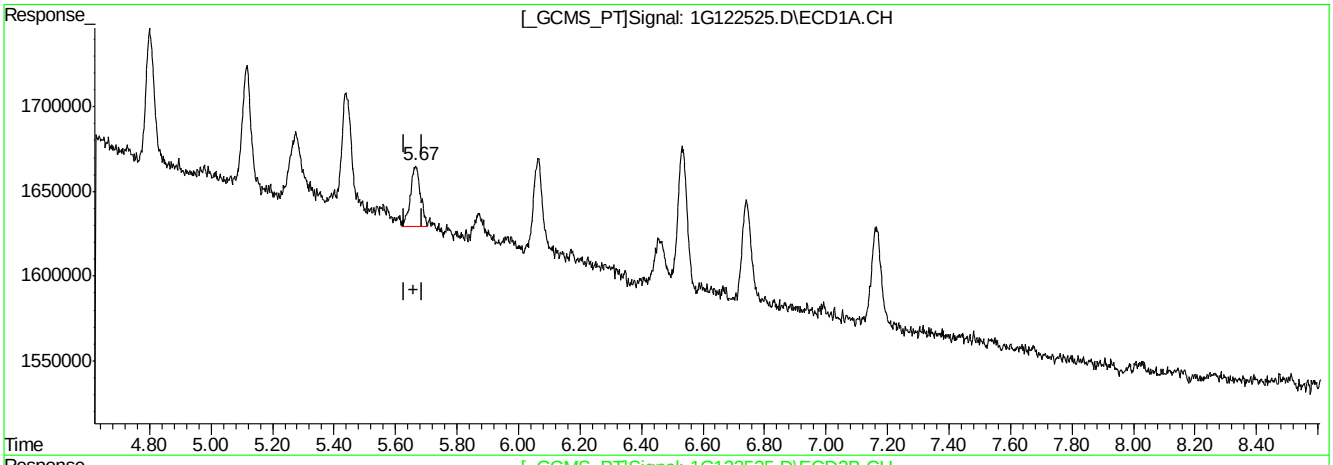
9.6.1.8

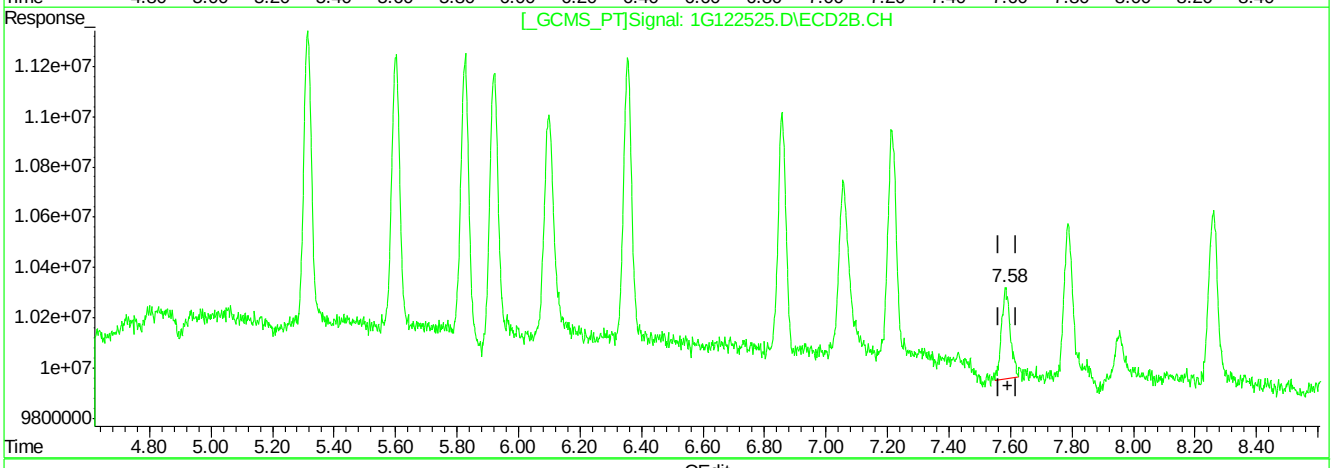
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(18) 4,4'-DDT (MA)

5.67min 0.885PPB

response 796168

(18) 4,4'-DDT #2 (MA)

7.58min 0.702PPB m

response 7231675

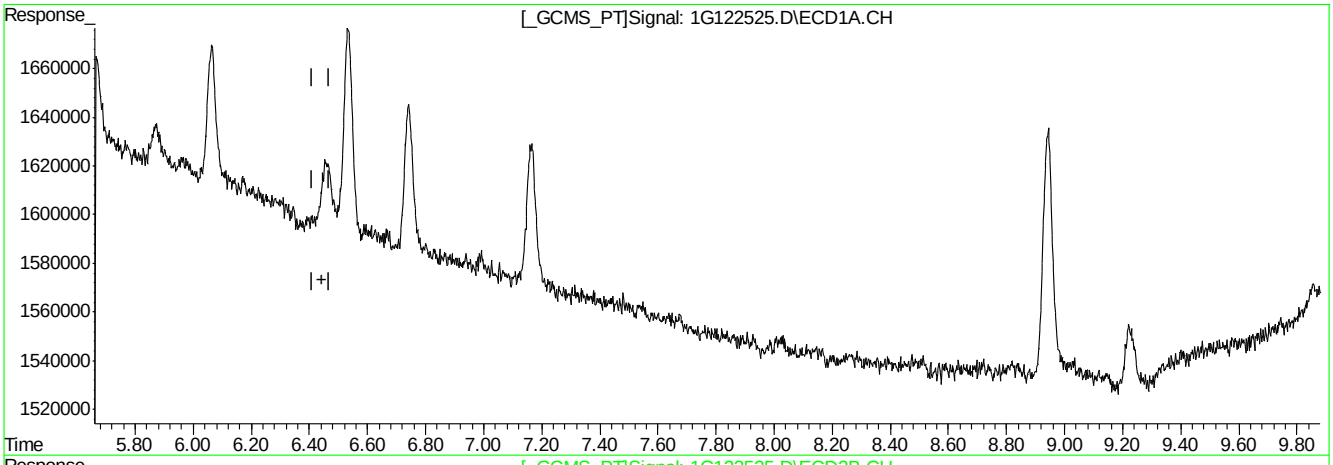
(+) = Expected Retention Time

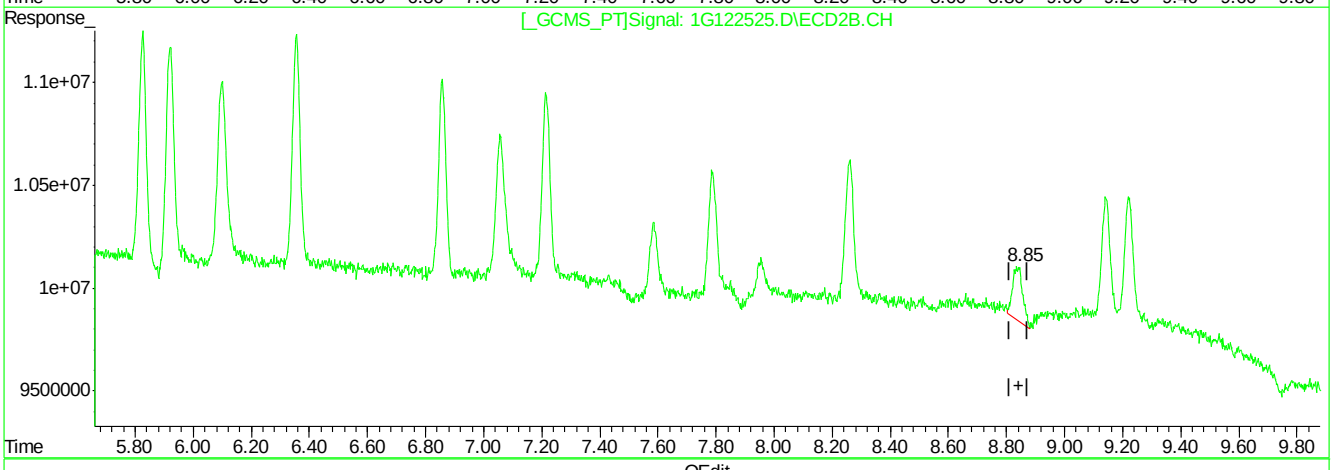
1G122525.D 1PST3973.M Wed Apr 27 14:10:03 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

0.00min 0.000PPB

response 0

(21) Methoxychlor #2 (A)

8.84min 1.130PPB

response 6175298

(+) = Expected Retention Time

1G122525.D 1PST3973.M Wed Apr 27 14:10:08 2016 RPT1

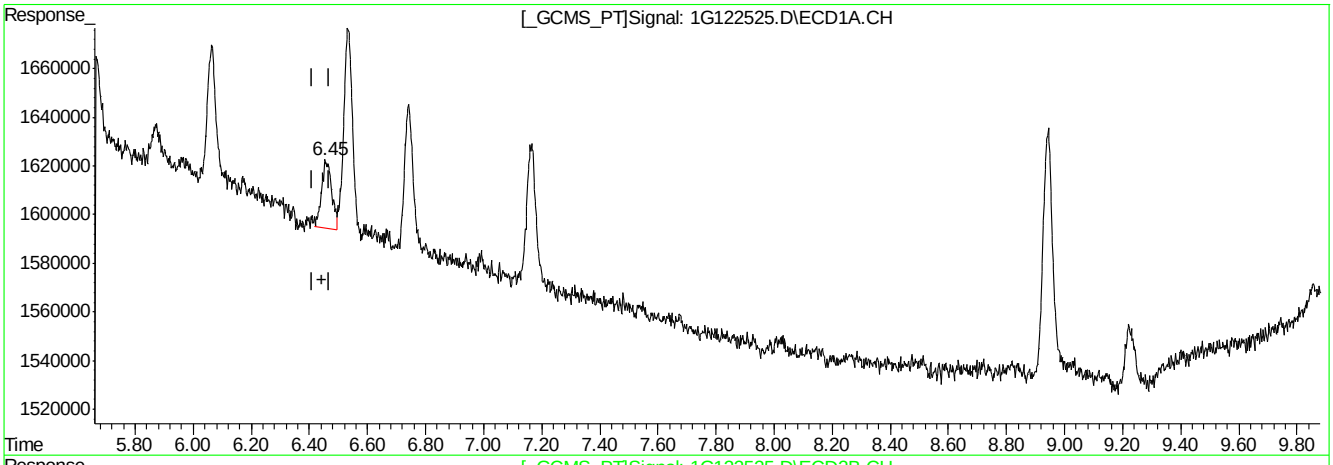
9.6.1.10

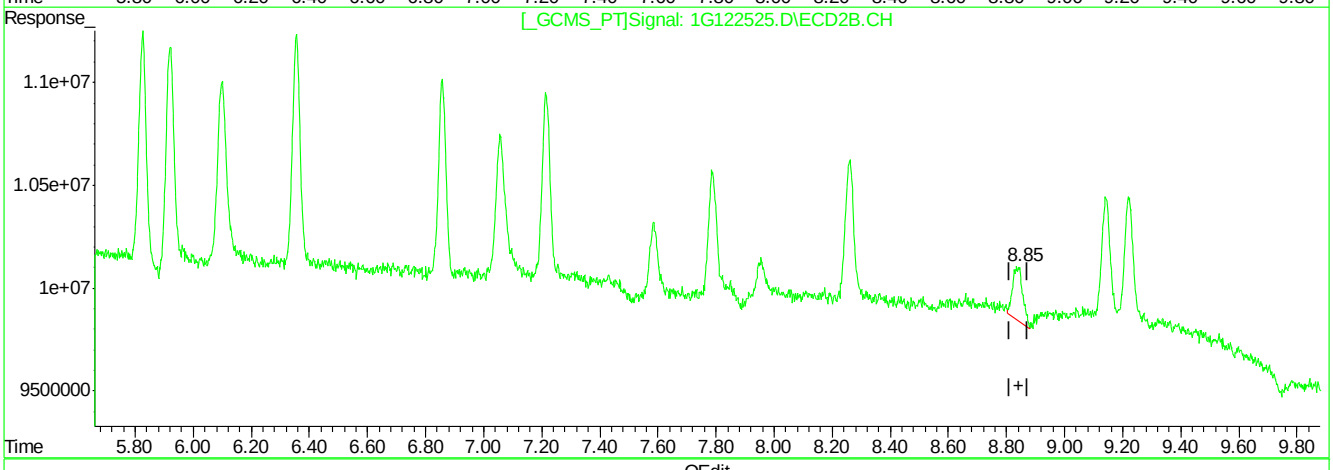
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.45min 1.108PPB m

response 671673

(21) Methoxychlor #2 (A)

8.84min 1.130PPB

response 6175298

(+) = Expected Retention Time

1G122525.D 1PST3973.M Wed Apr 27 14:10:29 2016 RPT1

9.6.1.11

9

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD2B.CH
Acq On : 27 Apr 2016 12:00 pm Operator: dharas
Sample : ic3973-2 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	57633325	912.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	2500509	36944498	2.270m	2.574
Spiked Amount	40.000	Range	30 - 150	Recovery	=	5.67%#	6.43%#
24) SA	Decachlorobiphen	8.94	10.86	4511853	20895509	2.965	2.213
Spiked Amount	40.000			Recovery	=	7.41%	5.53%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	2722638	53227516	2.081	2.457
4) MA	gamma-BHC	2.51	3.47	2678077	47345704	2.145	2.433
5) MA	Heptachlor	2.98	4.04	3010664	43024430	2.245	2.459
6) B	beta-BHC	2.59	3.56	1349800	20351464	2.124	2.462
7) B	delta-BHC	2.76	3.95	2036067	43091402	1.852	2.411
8) MB	Aldrin	3.30	4.49	2909550	47920184	2.330	2.740
9) B	Heptachlor Epoxi	3.99	5.32	2922990	42354508	2.352	2.675
10) B	gamma-Chlordane	4.15	5.60	3063940	41289445	2.339	2.607
11) B	alpha-Chlordane	4.31	5.83	3055832	38326207	2.420	2.502
12) A	Endosulfan I	4.49	5.92	3419119	38999360	2.848	2.608
13) B	4,4'-DDE	4.44	6.10	2341551	39405602	2.030	2.499
14) MA	Dieldrin	4.80	6.36	2859749	41898176	2.353	2.502
15) MA	Endrin	5.12	6.86	2692376	36636272	2.368	2.522
16) A	4,4'-DDD	5.27	7.06	2051581	32925891	2.141	2.461
17) B	Endosulfan II	5.44	7.21	2718571	33773789	2.356	2.335
18) MA	4,4'-DDT	5.67	7.59	1546010	15633714	1.693	1.493
19) B	Endrin Aldehyde	6.06	7.79	2278504	24060058	2.331	2.145
20) B	Endosulfan Sulfa	6.74	8.26	2632691	29124099	2.511	2.392
21) A	Methoxychlor	6.46	8.84	1346844	11144013	2.190	2.005
22)	Mirex	6.53	9.14	3659545	23161258	3.141	2.488
23) B	Endrin Ketone	7.16	9.22	2554192	26246245	2.086	2.026

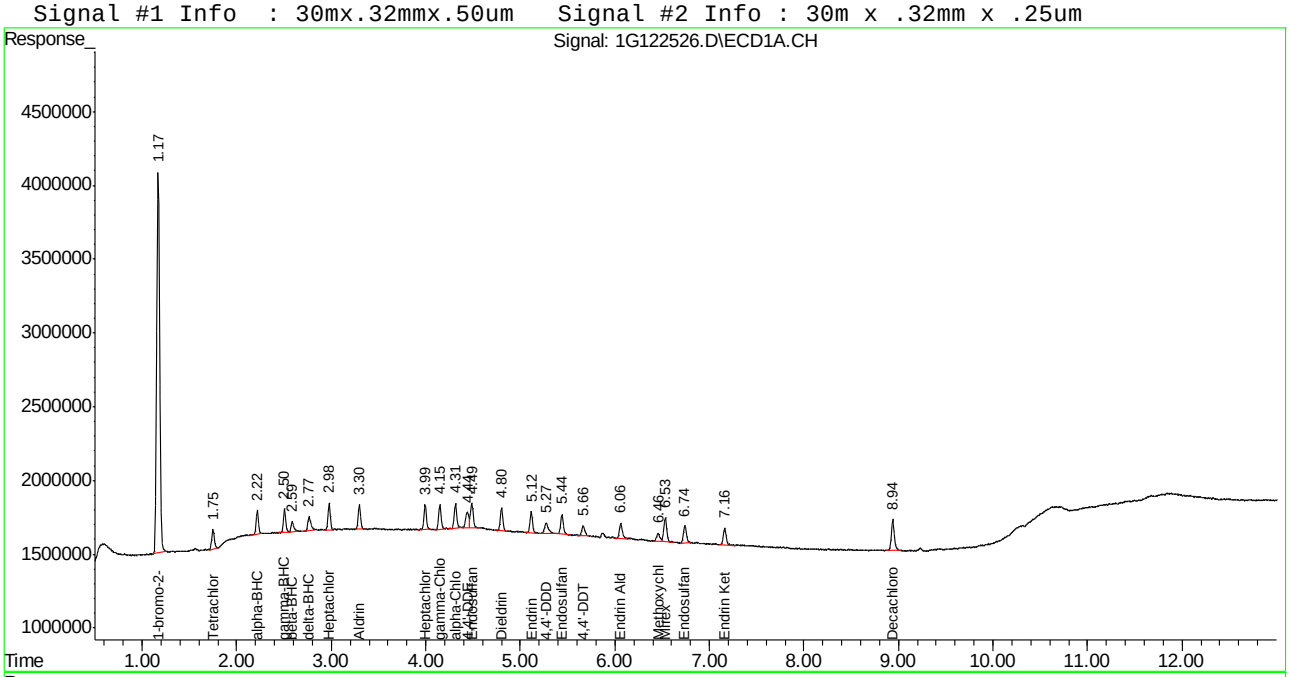
(f)=RT Delta > 1/2 Window (m)=manual int.

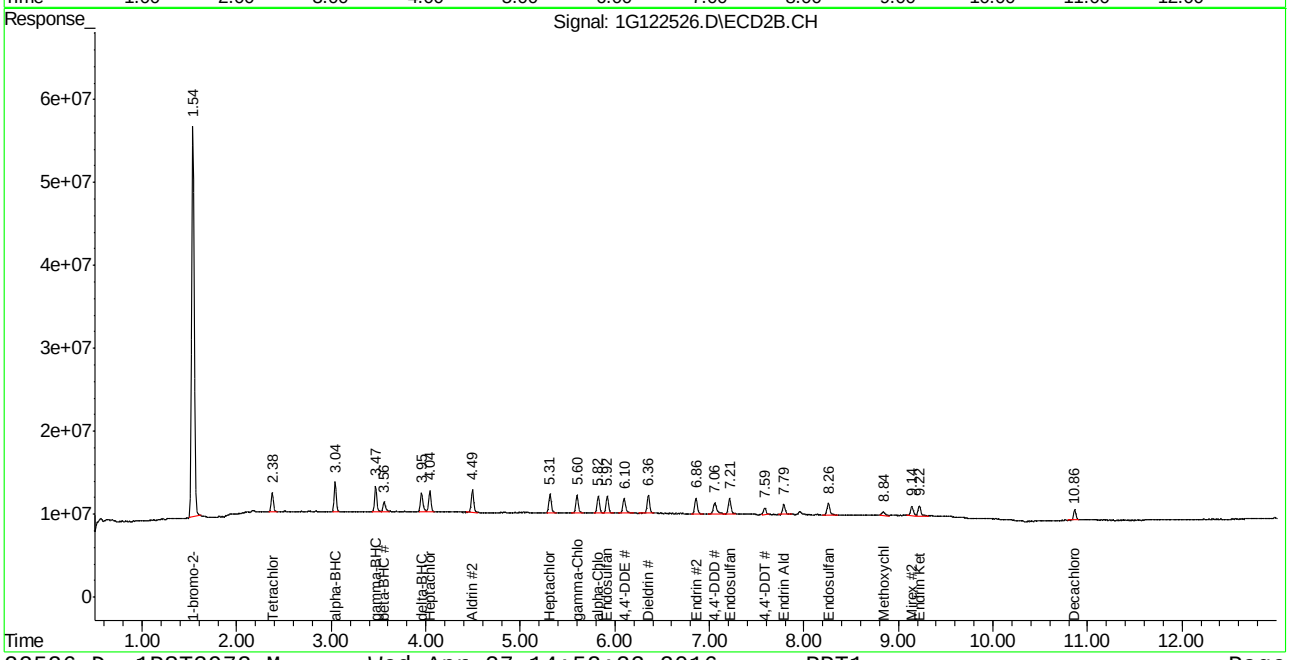
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD2B.CH
Acq On : 27 Apr 2016 12:00 pm Operator: dharas
Sample : ic3973-2 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

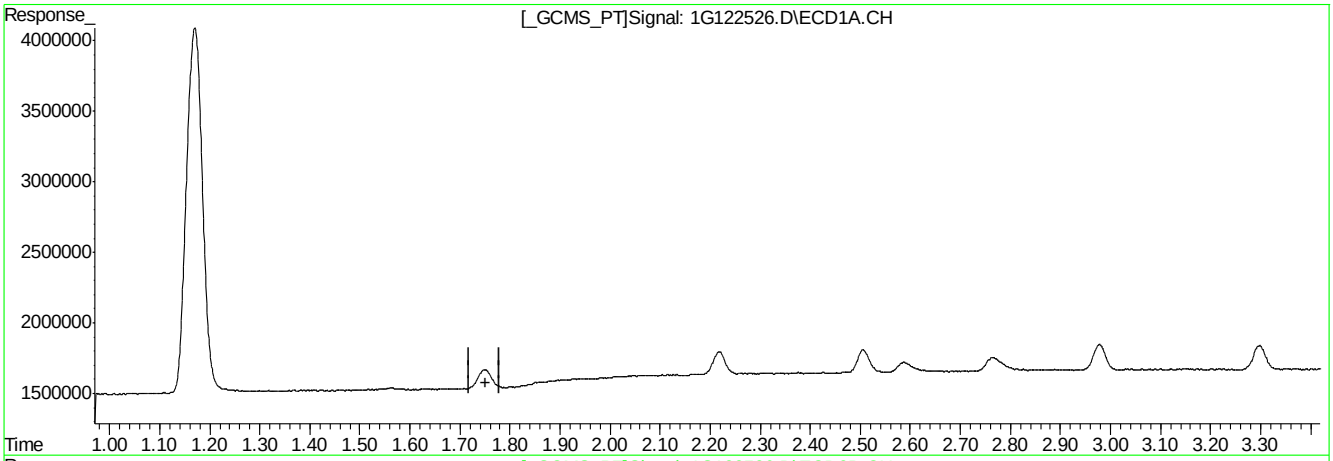
Sample Number:	G1G3973-IC3973	**Method:**	SW846 8081B
Lab FileID:	1G122526.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 12:00	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

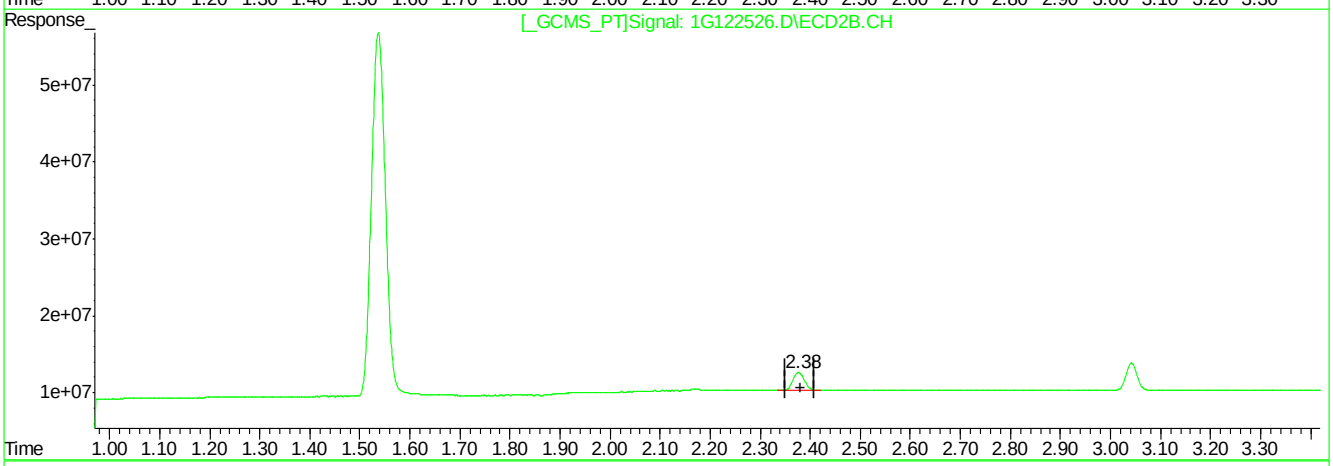
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.75	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD2B.CH
Acq On    : 27 Apr 2016  12:00 pm                    Operator: dharas
Sample    : ic3973-2                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:01 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

0.00min 0.000PPB

response 0

(2) Tetrachloro-m-xylene #2 (SAB)

2.38min 2.574PPB

response 36944498

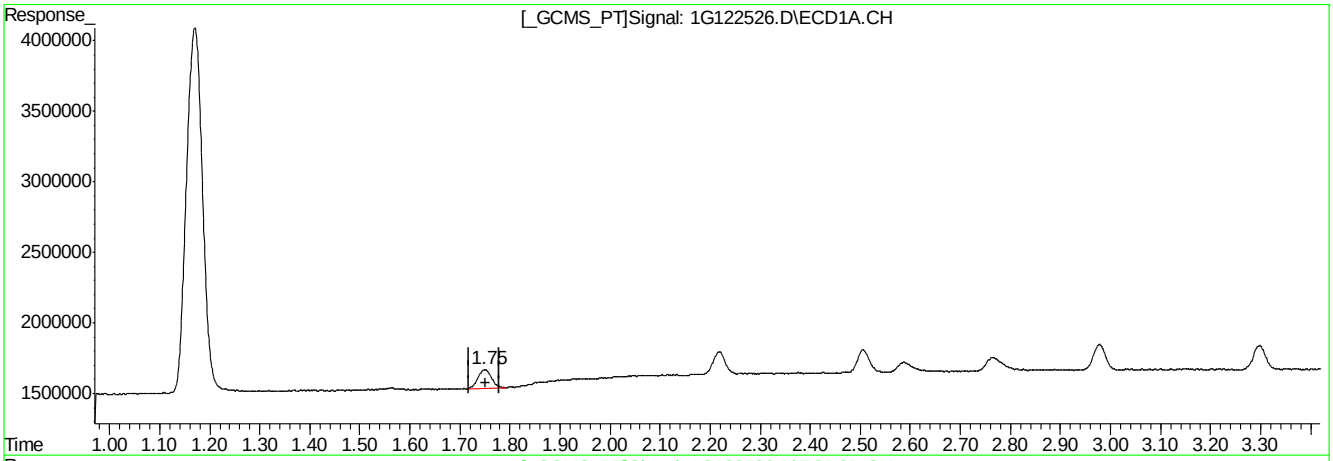
(+) = Expected Retention Time

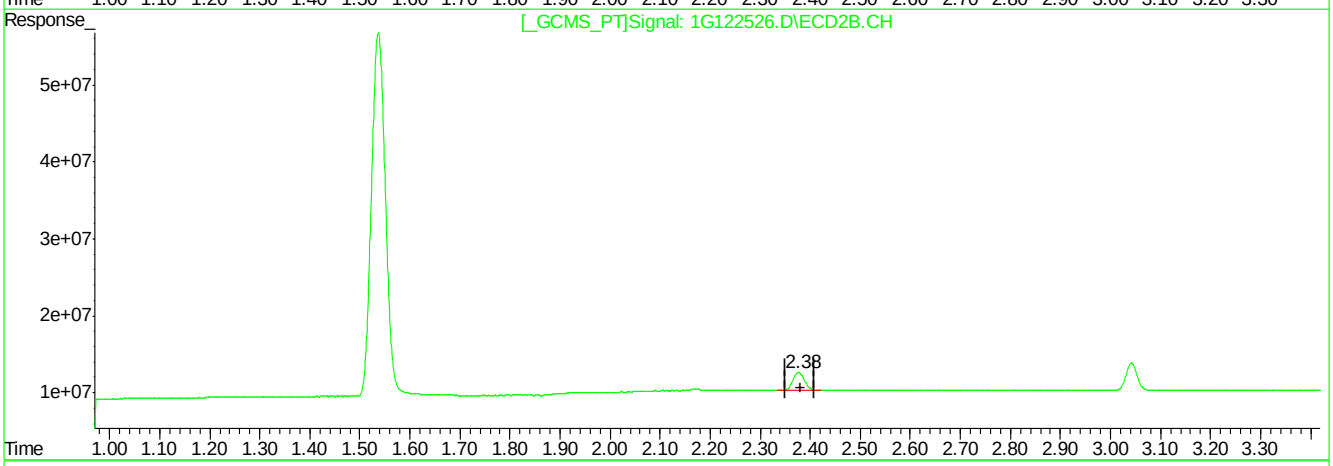
1G122526.D 1PST3973.M Wed Apr 27 14:01:42 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD2B.CH
Acq On    : 27 Apr 2016  12:00 pm                    Operator: dharas
Sample    : ic3973-2                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:01 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.75min 2.270PPB m

response 2500509

(2) Tetrachloro-m-xylene #2 (SAB)

2.38min 2.574PPB

response 36944498

(+) = Expected Retention Time

1G122526.D 1PST3973.M Wed Apr 27 14:01:51 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD2B.CH
Acq On : 27 Apr 2016 12:17 pm Operator: dharas
Sample : ic3973-5 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	59376848	941.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	5959406	89418990	5.250	6.035
Spiked Amount	40.000	Range	30 - 150	Recovery	=	13.13%#	15.09%#
24) SA	Decachlorobiphen	8.94	10.87	11235862	51284197	7.166	5.263
Spiked Amount	40.000			Recovery	=	17.91%	13.16%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	6930521	131.4E6	5.142	5.877
4) MA	gamma-BHC	2.51	3.47	6702663	116.2E6	5.211	5.782
5) MA	Heptachlor	2.98	4.04	7593219	102.2E6	5.496	5.658
6) B	beta-BHC	2.59	3.56	3573830	47934749	5.460	5.617
7) B	delta-BHC	2.76	3.95	5695508	108.9E6	5.029	5.905
8) MB	Aldrin	3.30	4.49	7184456	110.1E6	5.584	6.101
9) B	Heptachlor Epoxi	3.99	5.31	7587232	97356924	5.926	5.956
10) B	gamma-Chlordane	4.15	5.60	7466781	95840412	5.533	5.861
11) B	alpha-Chlordane	4.31	5.83	7578168	92573334	5.826	5.855
12) A	Endosulfan I	4.49	5.92	8136429	93390506	6.578	6.049
13) B	4,4'-DDE	4.44	6.10	5959039	89558750	5.014	5.502
14) MA	Dieldrin	4.80	6.36	6982120	99608080	5.575	5.763
15) MA	Endrin	5.12	6.86	6706685	87508282	5.725	5.835
16) A	4,4'-DDD	5.27	7.06	4908525	78921875	4.972	5.713
17) B	Endosulfan II	5.44	7.21	6803006	83563592	5.723	5.596
18) MA	4,4'-DDT	5.67	7.58	4458722	46205056	4.739	4.275
19) B	Endrin Aldehyde	6.06	7.79	5487378	60666126	5.448	5.241
20) B	Endosulfan Sulfa	6.74	8.26	6349219	70803625	5.878	5.633
21) A	Methoxychlor	6.46	8.84	3198879	25411206	5.049	4.429m
22)	Mirex	6.53	9.14	8520685	57121955	7.098	5.944
23) B	Endrin Ketone	7.16	9.22	6036975	61894771	4.785	4.629

(f)=RT Delta > 1/2 Window (m)=manual int.
1G122527.D 1PST3973.M Wed Apr 27 14:52:38 2016 RPT1 Page 1

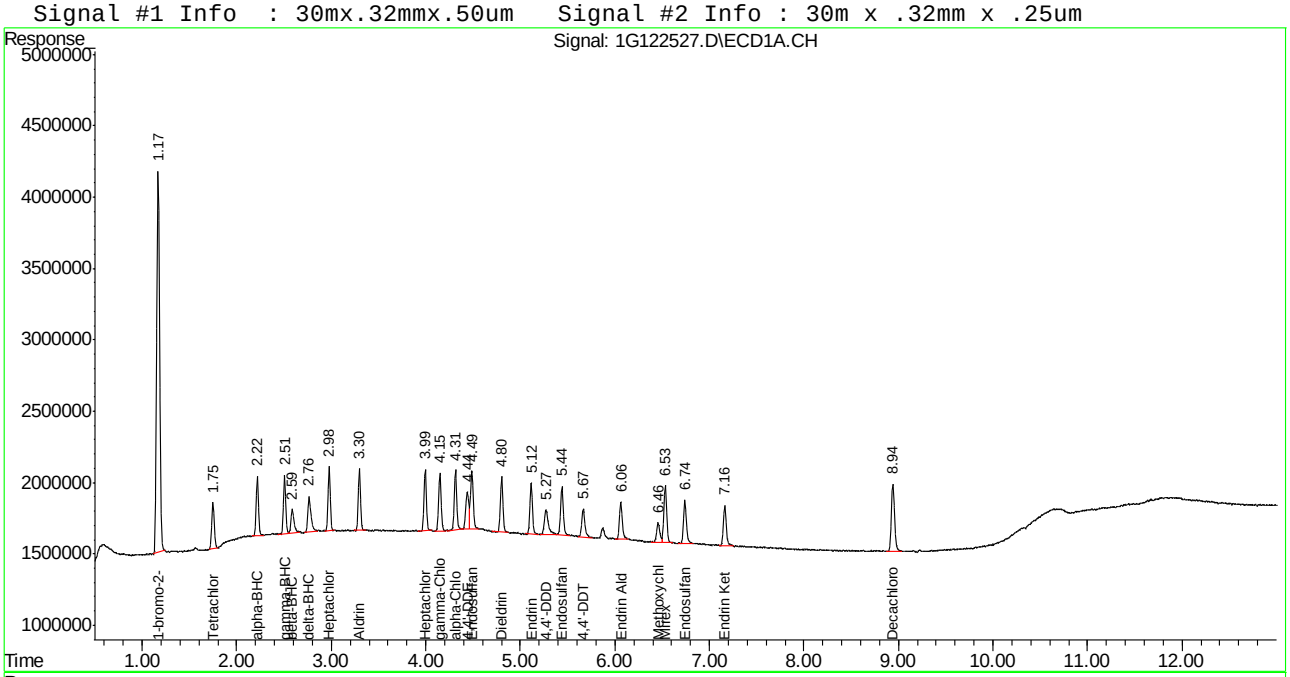
9.6.3
9

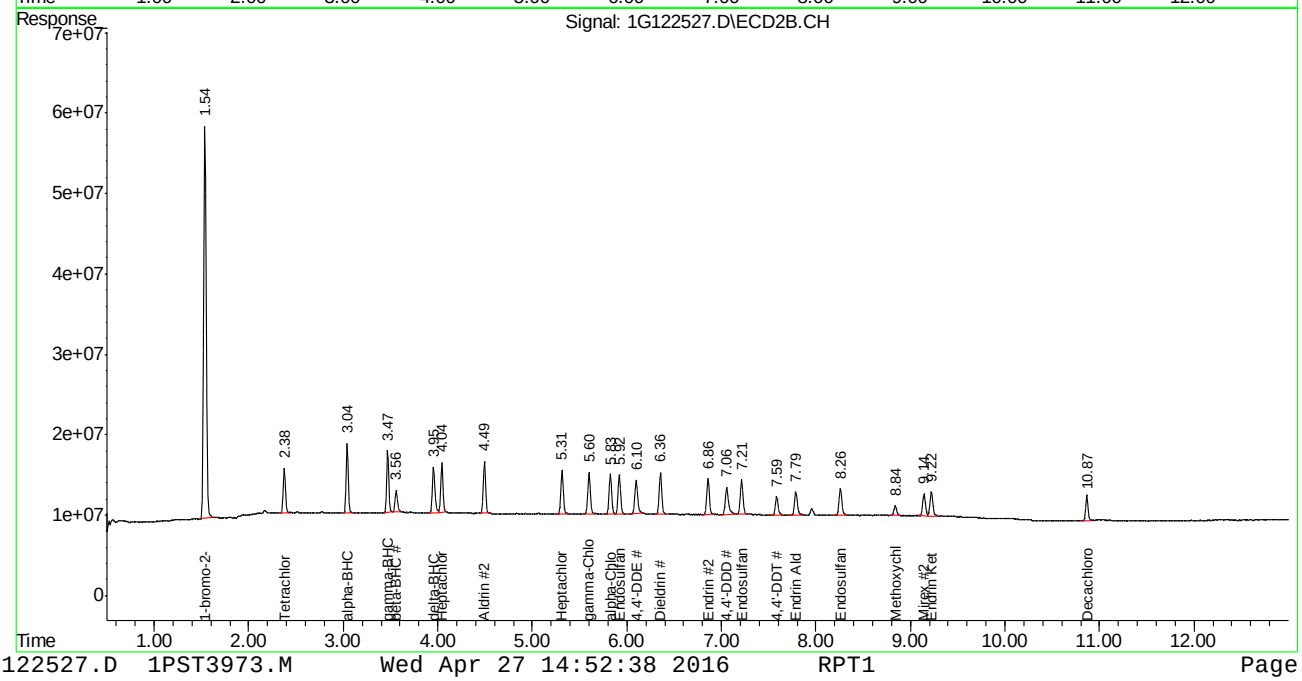
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD2B.CH
Acq On : 27 Apr 2016 12:17 pm Operator: dharas
Sample : ic3973-5 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC19423

Manual Integration Approval Summary

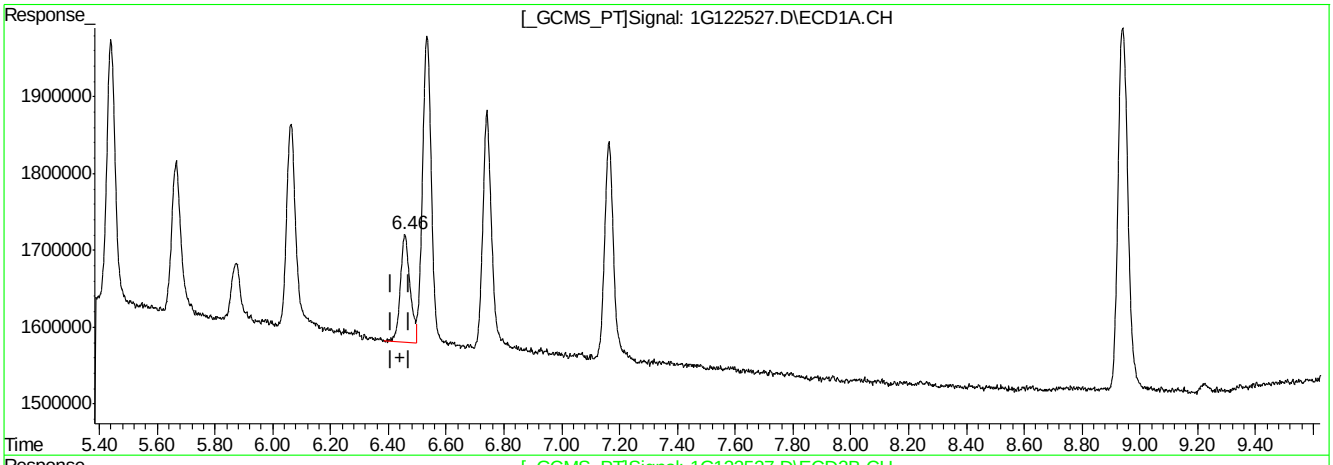
Sample Number:	G1G3973-IC3973	**Method:**	SW846 8081B
Lab FileID:	1G122527.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 12:17	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

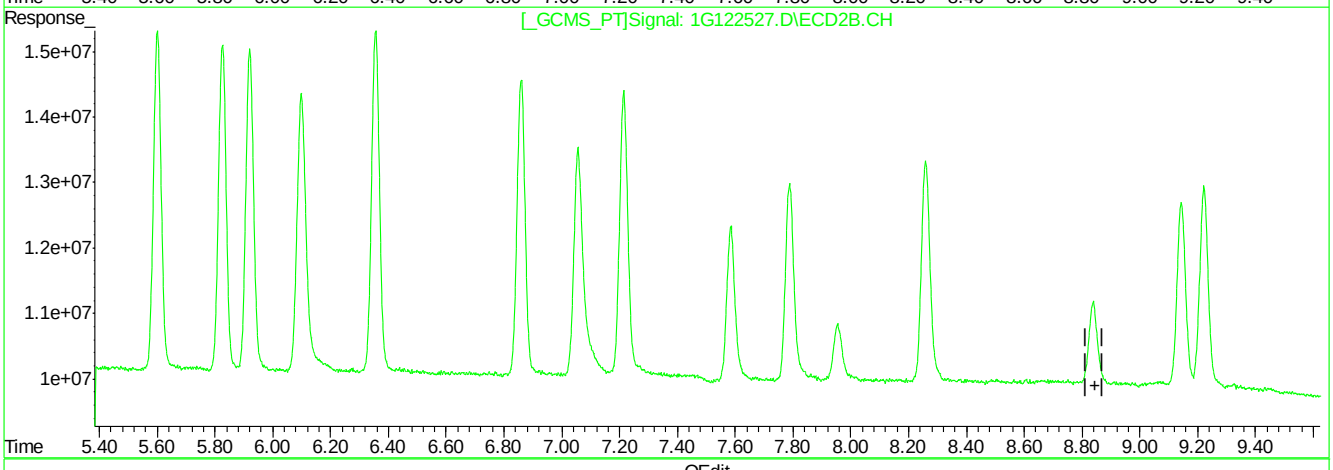
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methoxychlor	72-43-5	2	8.84	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD2B.CH
Acq On    : 27 Apr 2016  12:17 pm                    Operator: dharas
Sample    : ic3973-5                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 13:58 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.46min 5.049PPB

response 3198879

(21) Methoxychlor #2 (A)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G122527.D 1PST3973.M Wed Apr 27 13:59:18 2016 RPT1

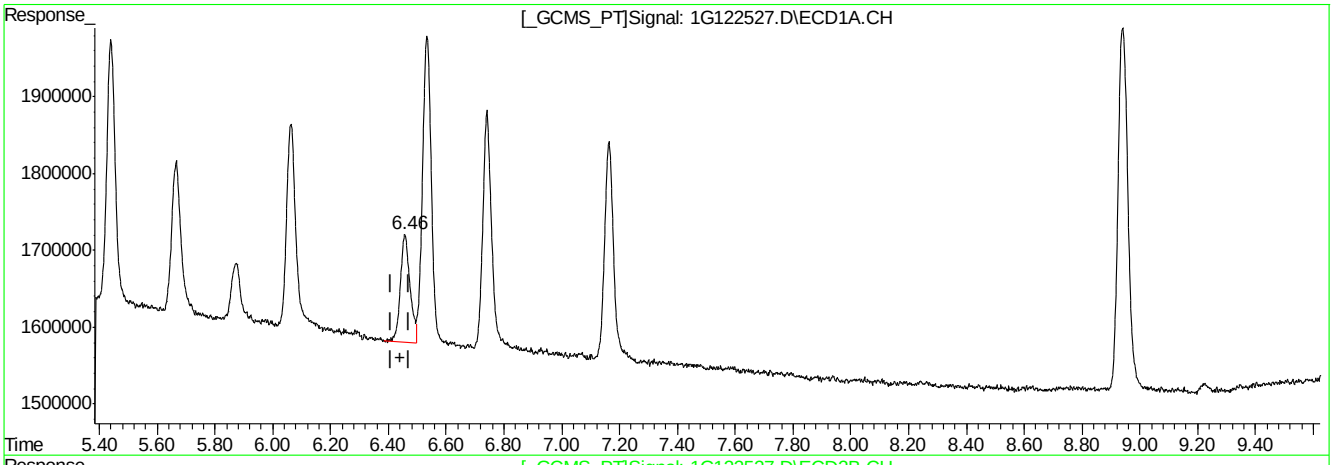
9.6.3.2

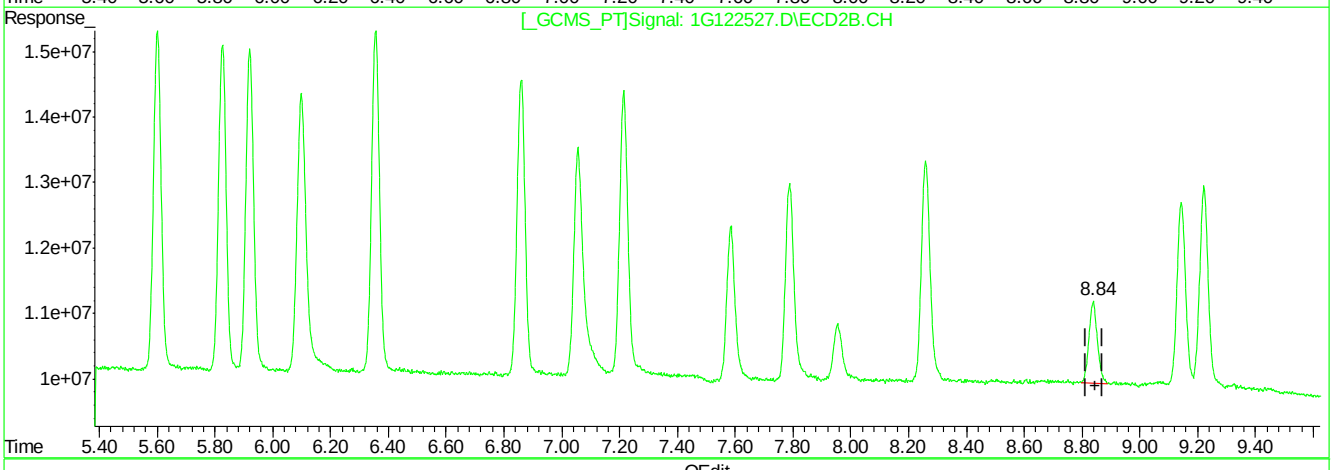
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD2B.CH
Acq On    : 27 Apr 2016  12:17 pm                    Operator: dharas
Sample    : ic3973-5                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 13:58 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.46min 5.049PPB

response 3198879

(21) Methoxychlor #2 (A)

8.84min 4.429PPB m

response 25411206

(+) = Expected Retention Time

1G122527.D 1PST3973.M Wed Apr 27 13:59:28 2016 RPT1

9.6.3.3

9

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122528.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122528.D\ECD2B.CH
Acq On : 27 Apr 2016 12:35 pm Operator: dharas
Sample : ic3973-10 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	58121382	919.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	11787238	169.9E6	10.609	11.737
Spiked Amount	40.000	Range	30 - 150	Recovery	=	26.52%#	29.34%#
24) SA	Decachlorobiphen	8.94	10.87	21558565	98416103	14.047	10.338
Spiked Amount	40.000			Recovery	=	35.12%	25.84%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	13637256	253.3E6	10.336	11.599
4) MA	gamma-BHC	2.51	3.47	13261905	223.3E6	10.533	11.379
5) MA	Heptachlor	2.98	4.04	14822755	193.4E6	10.960	10.963
6) B	beta-BHC	2.59	3.56	6866002	92728116	10.716	11.123
7) B	delta-BHC	2.77	3.96	11620460	207.6E6	10.482	11.522
8) MB	Aldrin	3.30	4.49	14303611	206.9E6	11.358	11.733
9) B	Heptachlor Epoxi	3.99	5.32	15073603	187.5E6	12.027	11.744
10) B	gamma-Chlordane	4.15	5.60	14616554	182.2E6	11.065	11.405
11) B	alpha-Chlordane	4.31	5.83	14754656	175.5E6	11.588	11.361
12) A	Endosulfan I	4.49	5.92	16142689	174.2E6	13.333	11.553
13) B	4,4'-DDE	4.44	6.10	11751595	172.9E6	10.102	10.872
14) MA	Dieldrin	4.80	6.36	14177272	188.3E6	11.566	11.153
15) MA	Endrin	5.12	6.86	13392548	167.6E6	11.679	11.438
16) A	4,4'-DDD	5.27	7.06	10871327	153.3E6	11.249	11.360
17) B	Endosulfan II	5.44	7.21	13971775	162.1E6	12.008	11.113
18) MA	4,4'-DDT	5.67	7.58	9136314	99514402	9.921	9.425
19) B	Endrin Aldehyde	6.06	7.79	11384740	120.5E6	11.547	10.659
20) B	Endosulfan Sulfa	6.74	8.26	12581438	135.0E6	11.899	10.990
21) A	Methoxychlor	6.46	8.84	6425859	52739104	10.361	9.410
22)	Mirex	6.54	9.14	16014284	108.0E6	13.629	11.507
23) B	Endrin Ketone	7.16	9.22	12210084	123.0E6	9.887	9.417

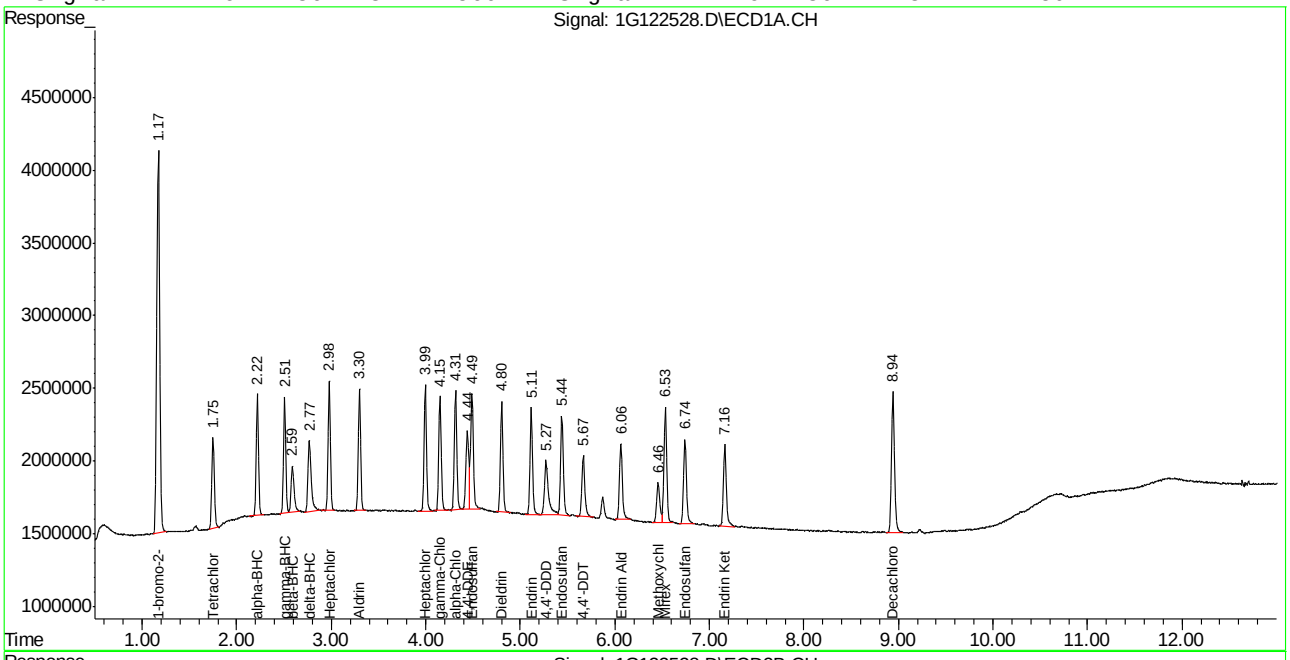
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122528.D 1PST3973.M Wed Apr 27 14:52:55 2016 RPT1 Page 1

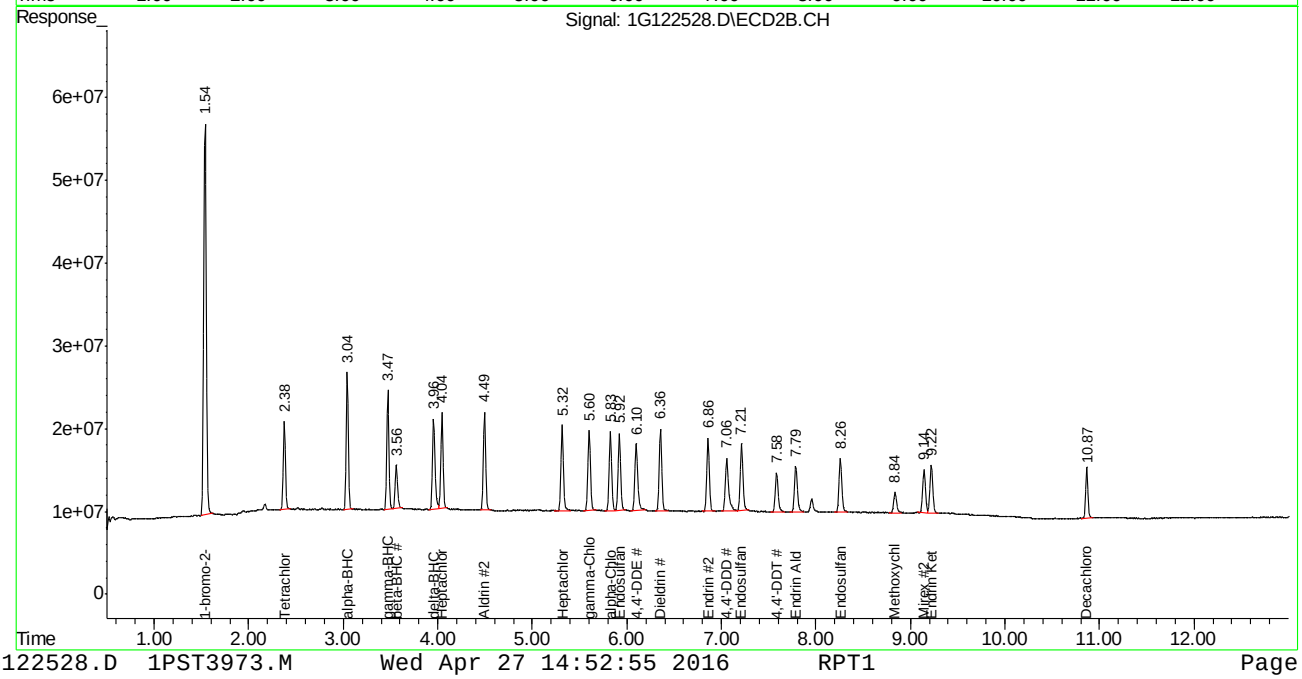
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122528.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122528.D\ECD2B.CH
Acq On : 27 Apr 2016 12:35 pm Operator: dharas
Sample : ic3973-10 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122529.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122529.D\ECD2B.CH
Acq On : 27 Apr 2016 12:52 pm Operator: dharas
Sample : icc3973-25 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:53 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	57466784	909.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	29571761	405.6E6	26.918	28.346
	Spiked Amount 40.000	Range 30 - 150		Recovery	=	67.29%	70.86%
24) SA	Decachlorobiphen	8.94	10.87	53044296	236.9E6	34.956	25.169
	Spiked Amount 40.000			Recovery	=	87.39%	62.92%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	36643968	618.0E6	28.091	28.620
4) MA	gamma-BHC	2.51	3.47	35518061	549.7E6	28.531	28.334
5) MA	Heptachlor	2.98	4.04	39004730	476.7E6	29.170	27.333
6) B	beta-BHC	2.59	3.56	17348175	234.3E6	27.384	28.434
7) B	delta-BHC	2.76	3.96	30165605	516.2E6	27.520	28.978
8) MB	Aldrin	3.30	4.49	37637191	499.0E6	30.226	28.622
9) B	Heptachlor Epoxi	3.99	5.32	39040122	449.9E6	31.504	28.504
10) B	gamma-Chlordane	4.15	5.60	37850680	445.3E6	28.981	28.198
11) B	alpha-Chlordane	4.31	5.83	38048145	424.9E6	30.222	27.828
12) A	Endosulfan I	4.49	5.92	41523624	423.4E6	34.686	28.399
13) B	4,4'-DDE	4.44	6.10	29925300	436.6E6	26.017	27.774
14) MA	Dieldrin	4.80	6.36	37306244	458.7E6	30.780	27.480
15) MA	Endrin	5.12	6.86	34832521	405.0E6	30.723	27.965
16) A	4,4'-DDD	5.27	7.05	27645217	376.7E6	28.932	28.237
17) B	Endosulfan II	5.44	7.21	36083487	406.7E6	31.364	28.203
18) MA	4,4'-DDT	5.66	7.58	26087301	275.2E6	28.651	26.367
19) B	Endrin Aldehyde	6.06	7.79	29284491	302.1E6	30.040	27.028
20) B	Endosulfan Sulfa	6.74	8.26	32858227	332.4E6	31.429	27.387
21) A	Methoxychlor	6.46	8.84	17086512	139.4E6	27.865	25.169
22)	Mirex	6.53	9.14	40546243	257.4E6	34.901	27.735
23) B	Endrin Ketone	7.16	9.22	32465905	307.6E6	26.589	23.821

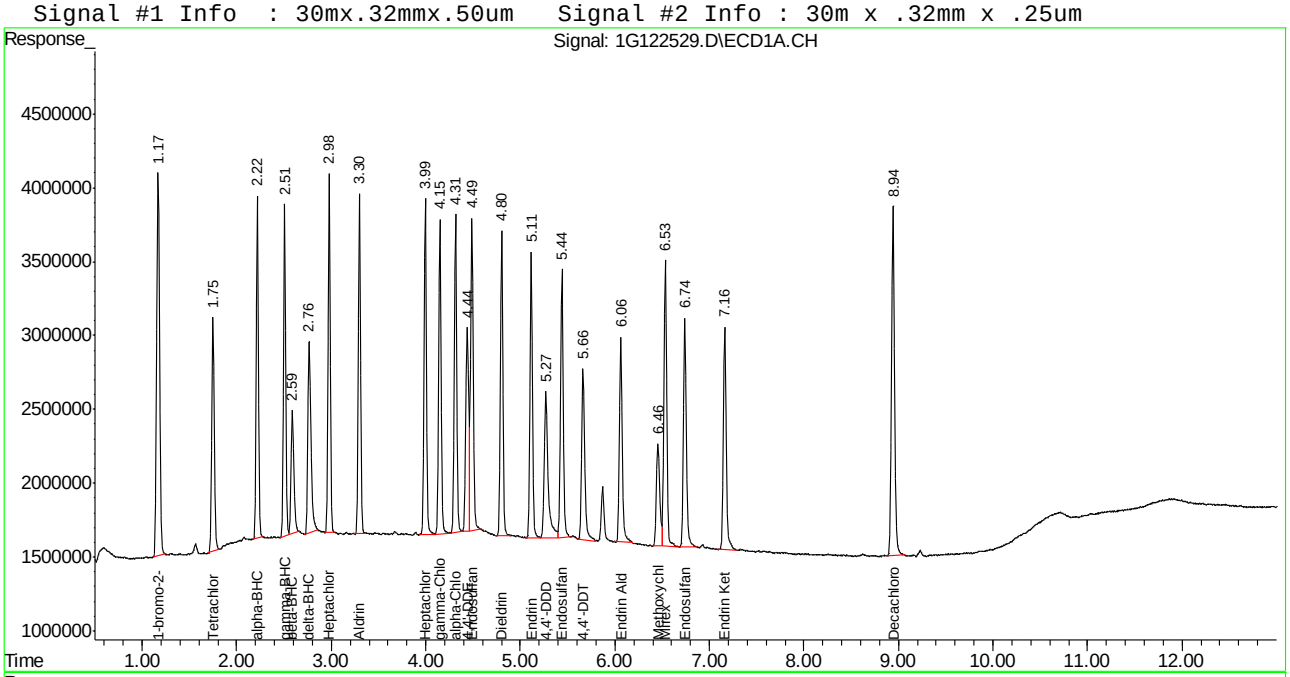
(f)=RT Delta > 1/2 Window (m)=manual int.

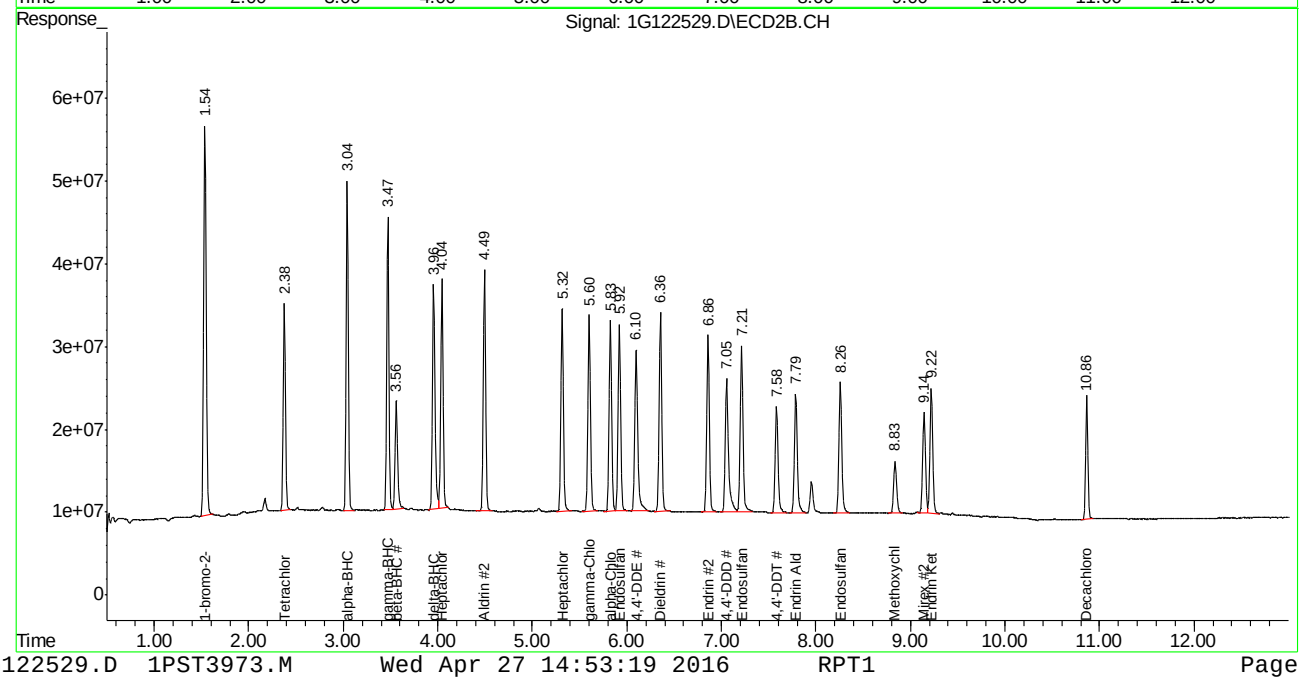
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122529.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122529.D\ECD2B.CH
Acq On : 27 Apr 2016 12:52 pm Operator: dharas
Sample : icc3973-25 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:53 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122530.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122530.D\ECD2B.CH
Acq On : 4-27-16 01:10:20 PM Operator: dharas
Sample : ic3973-50 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:13 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	57794331	914.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	58342609	782.6E6	52.806	54.410
Spiked Amount	40.000	Range	30 - 150	Recovery	=	132.01%	136.03%
24) SA	Decachlorobiphen	8.94	10.86	102.2E6	449.8E6	66.942	47.545
Spiked Amount	40.000			Recovery	=	167.35%	118.86%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	78612301	1190.9E6	59.921	54.865
4) MA	gamma-BHC	2.51	3.47	75134203	1061.1E6	60.011	54.409
5) MA	Heptachlor	2.98	4.04	80719976	928.4E6	60.025	52.951
6) B	beta-BHC	2.59	3.56	34721171	457.0E6	54.496	55.161
7) B	delta-BHC	2.77	3.96	66182222	1018.1E6	60.036	56.854
8) MB	Aldrin	3.30	4.49	78771248	936.6E6	62.902	53.435
9) B	Heptachlor Epoxi	3.99	5.31	78602650	845.3E6	63.070	53.269
10) B	gamma-Chlordane	4.15	5.60	77903136	836.1E6	59.309	52.669
11) B	alpha-Chlordane	4.31	5.83	77733080	799.2E6	61.394	52.070
12) A	Endosulfan I	4.49	5.92	83705314	791.7E6	69.525	52.828
13) B	4,4'-DDE	4.44	6.10	63110726	827.3E6	54.558	52.354
14) MA	Dieldrin	4.80	6.36	77617680	862.9E6	63.677	51.425
15) MA	Endrin	5.11	6.86	71990966	772.5E6	63.138	53.067
16) A	4,4'-DDD	5.27	7.05	52055620	713.0E6	54.170	53.171
17) B	Endosulfan II	5.44	7.21	70885456	764.9E6	61.265	52.765
18) MA	4,4'-DDT	5.66	7.58	55487632	560.5E6	60.596	53.416
19) B	Endrin Aldehyde	6.06	7.79	59424199	572.9E6	60.612	50.978
20) B	Endosulfan Sulfa	6.74	8.26	66158880	635.8E6	62.923	52.101
21) A	Methoxychlor	6.45	8.84	34113502	279.2E6	55.318	50.138
22)	Mirex	6.53	9.14	77043395	493.0E6	65.940	52.846
23) B	Endrin Ketone	7.16	9.22	67882288	603.2E6	55.279	46.475

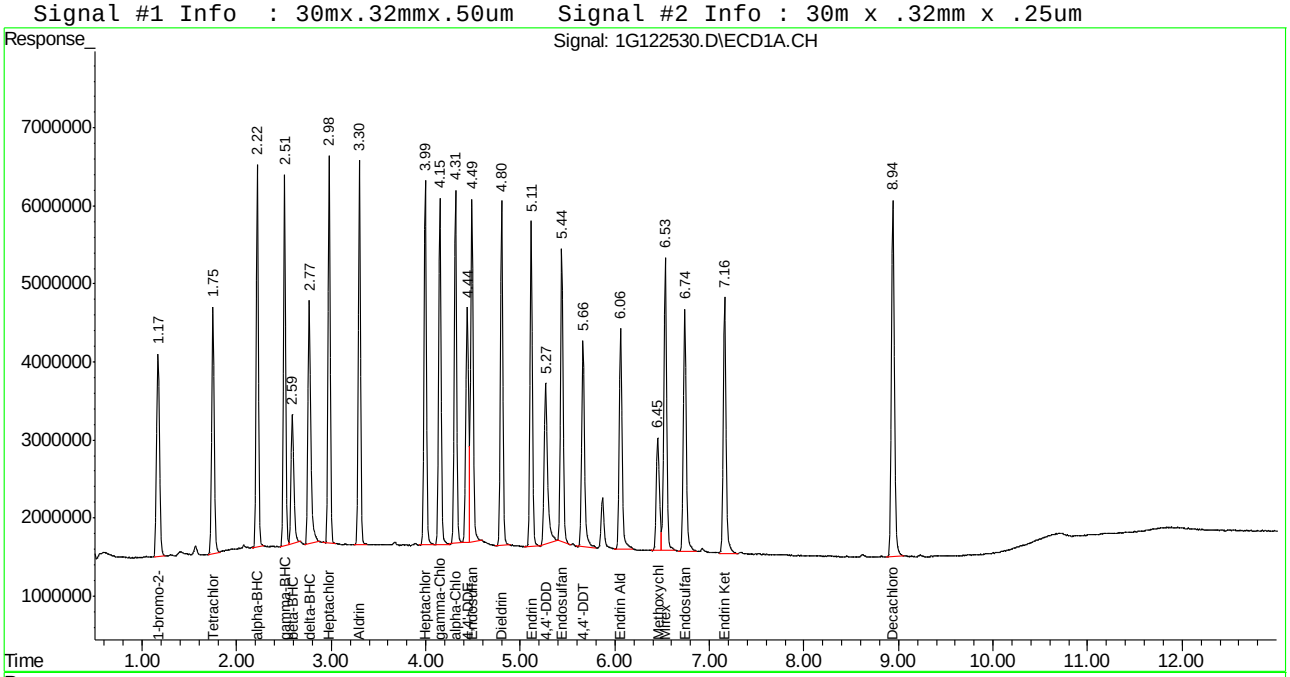
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122530.D 1PST3973.M Wed Apr 27 16:13:33 2016 RPT1 Page 1

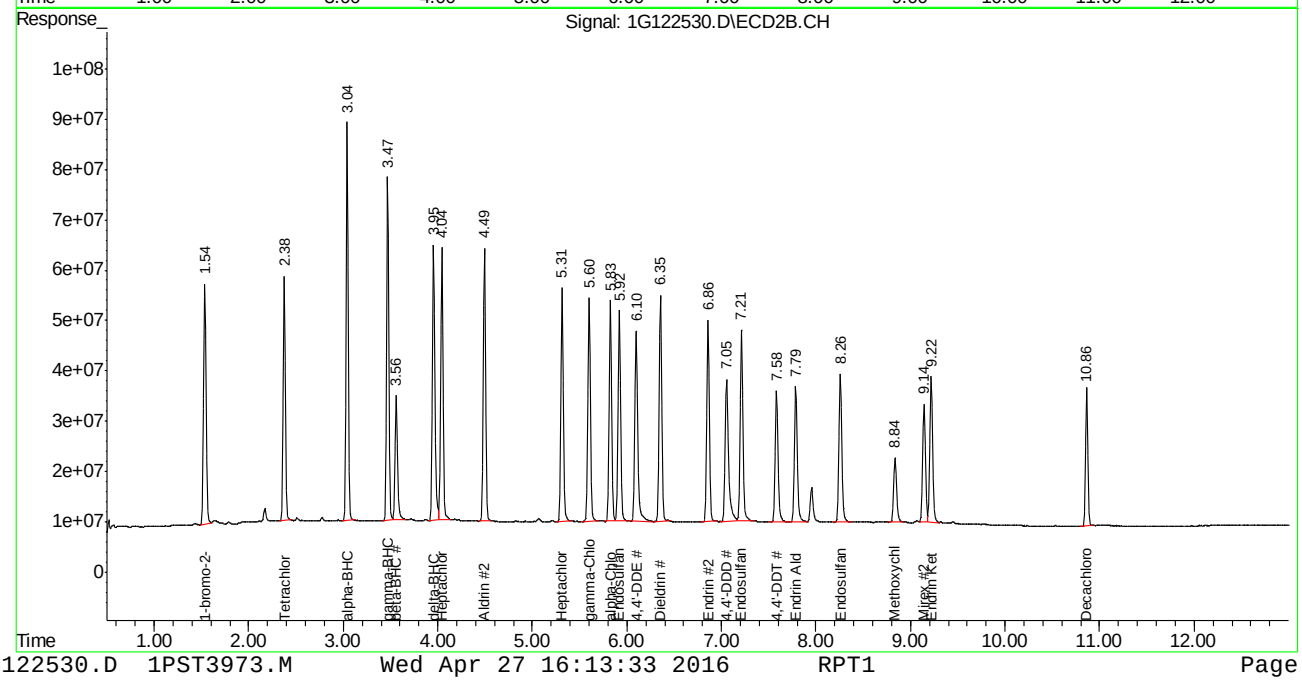
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122530.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122530.D\ECD2B.CH
Acq On : 4-27-16 01:10:20 PM Operator: dharas
Sample : ic3973-50 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:13 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122531.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122531.D\ECD2B.CH
Acq On : 4-27-16 01:27:50 PM Operator: dharas
Sample : ic3973-75 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:54 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	58879836	935.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	89129610	1164.5E6	79.184	79.119
	Spiked Amount 40.000	Range 30 - 150		Recovery	=	197.96%#	197.80%#
24) SA	Decachlorobiphen	8.94	10.86	152.3E6	662.8E6	97.987	68.476
	Spiked Amount 40.000			Recovery	=	244.97%	171.19%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	126.9E6	1790.7E6	94.908	80.628
4) MA	gamma-BHC	2.51	3.47	119.9E6	1590.8E6	94.021	79.715
5) MA	Heptachlor	2.98	4.05	127.0E6	1385.0E6	92.703	77.201
6) B	beta-BHC	2.59	3.56	53595161	679.3E6	82.569	80.137
7) B	delta-BHC	2.77	3.95	106.4E6	1535.5E6	94.761	83.797
8) MB	Aldrin	3.30	4.49	124.8E6	1383.5E6	97.825	77.142
9) B	Heptachlor Epoxi	4.00	5.32	122.1E6	1241.2E6	96.195	76.445
10) B	gamma-Chlordane	4.15	5.60	121.5E6	1238.4E6	90.803	76.242
11) B	alpha-Chlordane	4.31	5.83	120.8E6	1181.9E6	93.627	75.260
12) A	Endosulfan I	4.49	5.92	129.7E6	1164.7E6	105.764	75.950
13) B	4,4'-DDE	4.44	6.10	99507577	1224.7E6	84.437	75.739
14) MA	Dieldrin	4.80	6.36	122.9E6	1275.0E6	99.003	74.260
15) MA	Endrin	5.12	6.86	112.9E6	1140.5E6	97.164	76.564
16) A	4,4'-DDD	5.27	7.05	87188642	1047.0E6	89.058	76.303
17) B	Endosulfan II	5.44	7.21	114.0E6	1125.1E6	96.748	75.845
18) MA	4,4'-DDT	5.66	7.58	90104809	849.9E6	96.586	79.163
19) B	Endrin Aldehyde	6.06	7.79	92077834	847.1E6	92.187	73.669
20) B	Endosulfan Sulfa	6.74	8.26	102.8E6	934.0E6	96.014	74.802
21) A	Methoxychlor	6.45	8.84	52887930	427.7E6	84.181	75.050
22)	Mirex	6.53	9.14	115.7E6	724.5E6	97.227	75.901
23) B	Endrin Ketone	7.16	9.22	104.8E6	895.0E6	83.736	67.386

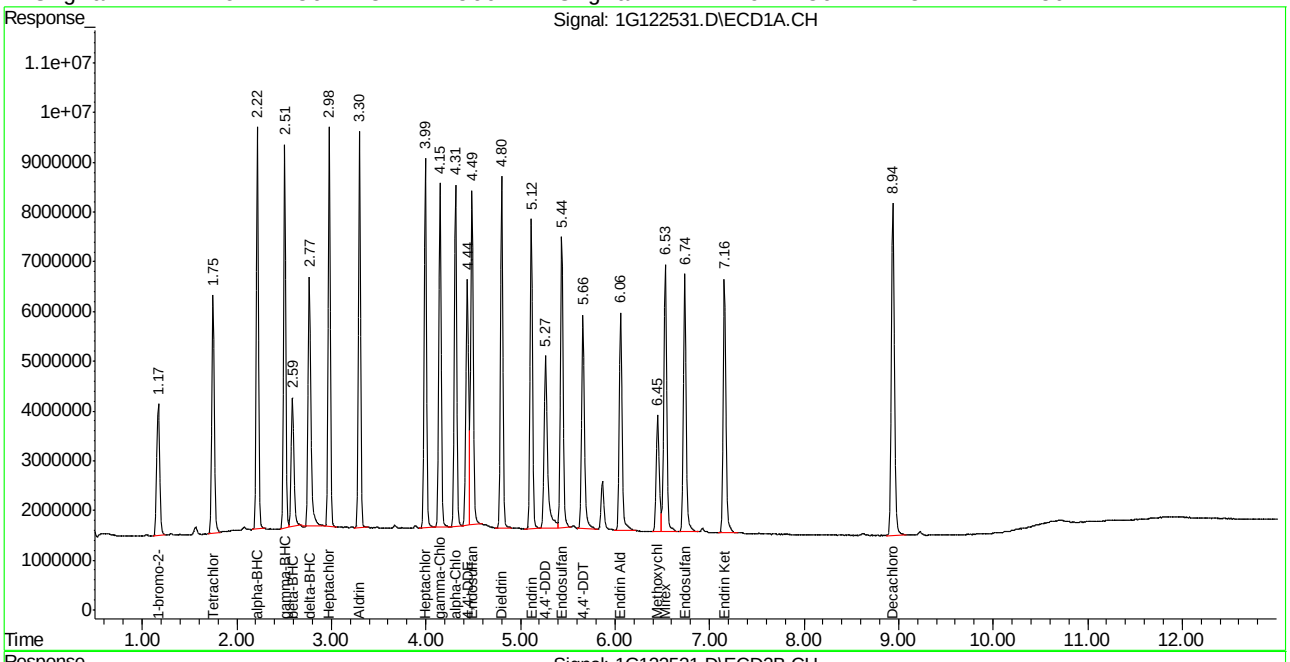
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122531.D 1PST3973.M Wed Apr 27 14:54:48 2016 RPT1 Page 1

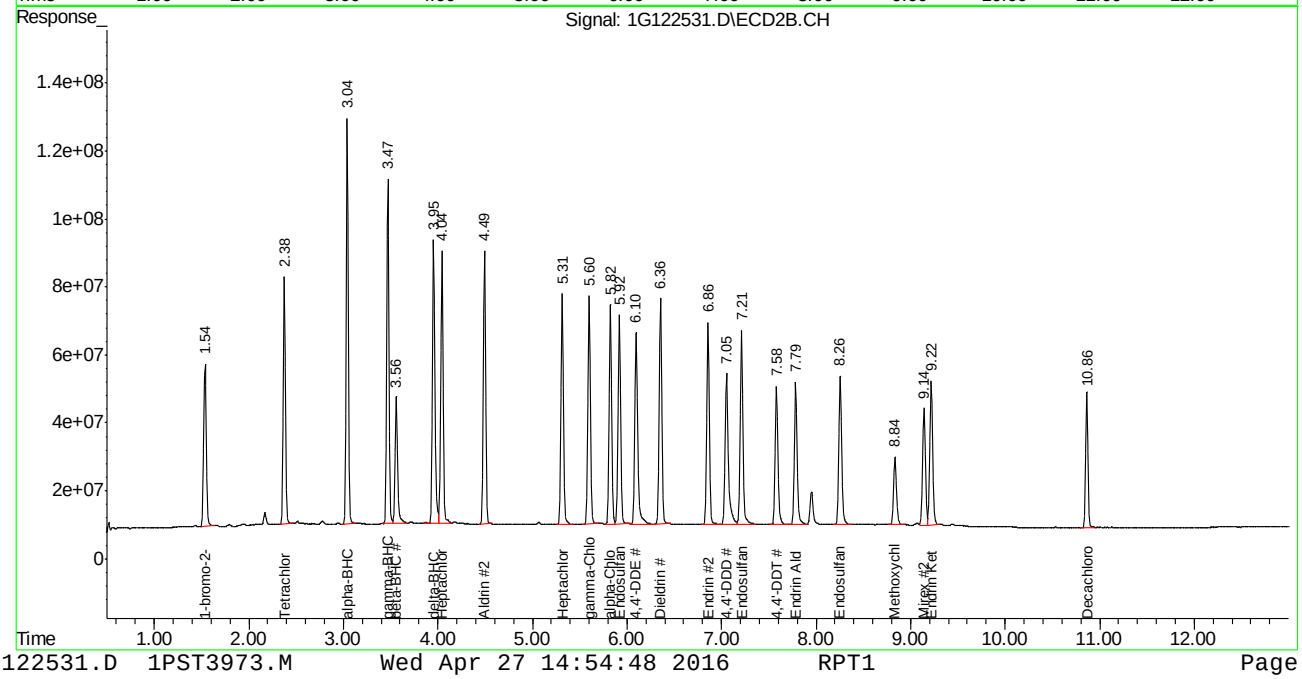
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122531.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122531.D\ECD2B.CH
Acq On : 4-27-16 01:27:50 PM Operator: dharas
Sample : ic3973-75 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:54 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122532.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122532.D\ECD2B.CH
Acq On : 4-27-16 01:45:26 PM Operator: dharas
Sample : ic3973-100 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:55 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	59226745	940.5E6	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachloro-m-xy	1.75	2.38	121.9E6	1550.5E6	107.680	104.765
	Spiked Amount 40.000	Range 30 - 150		Recovery	=	269.20%#	261.91%#
24)	SA Decachlorobiphen	8.94	10.87	204.9E6	888.3E6	131.022	91.259
	Spiked Amount 40.000			Recovery	=	327.56%	228.15%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	180.7E6	2408.1E6	134.377	107.824
4) MA	gamma-BHC	2.51	3.47	170.0E6	2140.5E6	132.463	106.668
5) MA	Heptachlor	2.98	4.04	177.4E6	1843.2E6	128.757	102.177
6) B	beta-BHC	2.59	3.56	75984655	911.0E6	116.376	106.871
7) B	delta-BHC	2.77	3.95	152.8E6	2060.8E6	135.240	111.841
8) MB	Aldrin	3.30	4.49	175.0E6	1845.2E6	136.372	102.315
9) B	Heptachlor Epoxi	4.00	5.32	169.6E6	1642.5E6	132.809	100.596
10) B	gamma-Chlordane	4.15	5.60	170.0E6	1667.6E6	126.293	102.099
11) B	alpha-Chlordane	4.31	5.82	168.7E6	1582.3E6	129.982	100.192
12) A	Endosulfan I	4.49	5.92	182.4E6	1560.8E6	147.862	101.219
13) B	4,4'-DDE	4.44	6.10	140.3E6	1655.8E6	118.372	101.835
14) MA	Dieldrin	4.80	6.36	172.6E6	1719.4E6	138.197	99.588
15) MA	Endrin	5.11	6.86	157.2E6	1513.2E6	134.506	101.022
16) A	4,4'-DDD	5.26	7.05	122.5E6	1399.0E6	124.408	101.392
17) B	Endosulfan II	5.44	7.21	158.5E6	1494.5E6	133.645	100.189
18) MA	4,4'-DDT	5.66	7.58	129.1E6	1153.0E6	137.614	106.800
19) B	Endrin Aldehyde	6.06	7.79	128.0E6	1132.5E6	127.427	97.940
20) B	Endosulfan Sulfa	6.74	8.26	141.9E6	1237.8E6	131.677	98.583
21) A	Methoxychlor	6.45	8.84	72530175	584.7E6	114.769	102.030
22)	Mirex	6.53	9.14	155.3E6	962.5E6	129.708	100.275
23) B	Endrin Ketone	7.16	9.22	145.4E6	1210.9E6	115.572	90.667

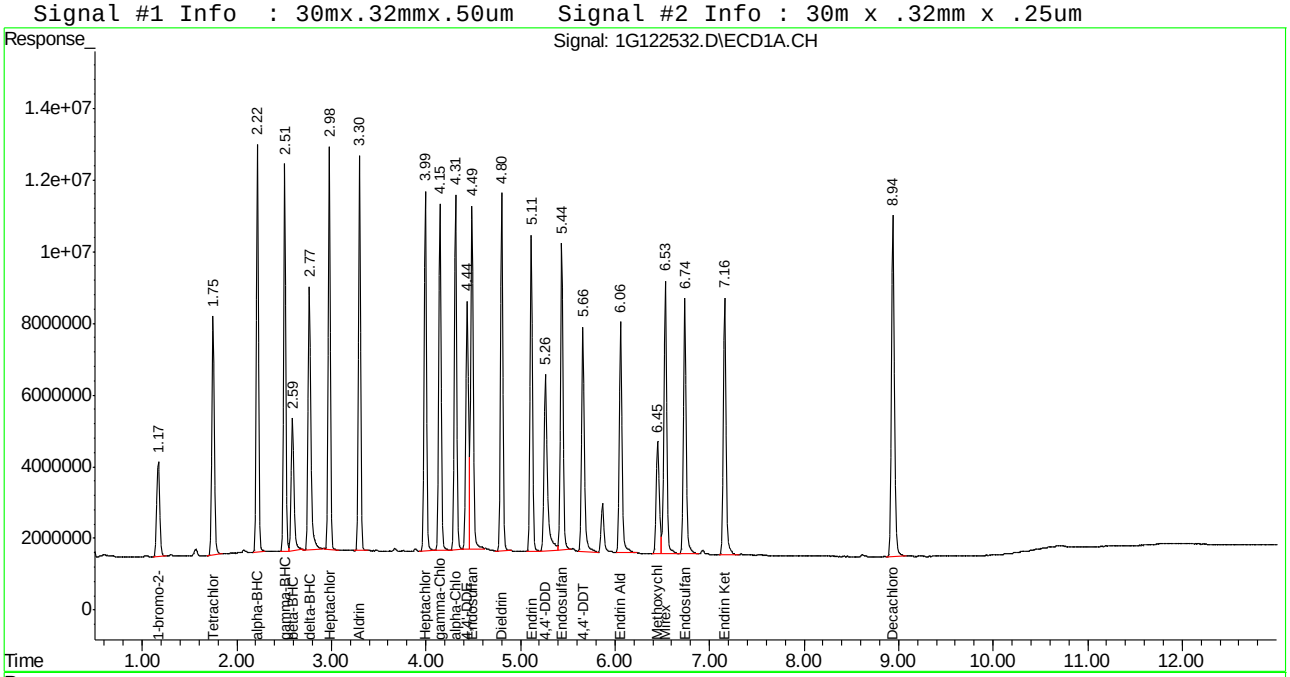
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122532.D 1PST3973.M Wed Apr 27 14:55:26 2016 RPT1 Page 1

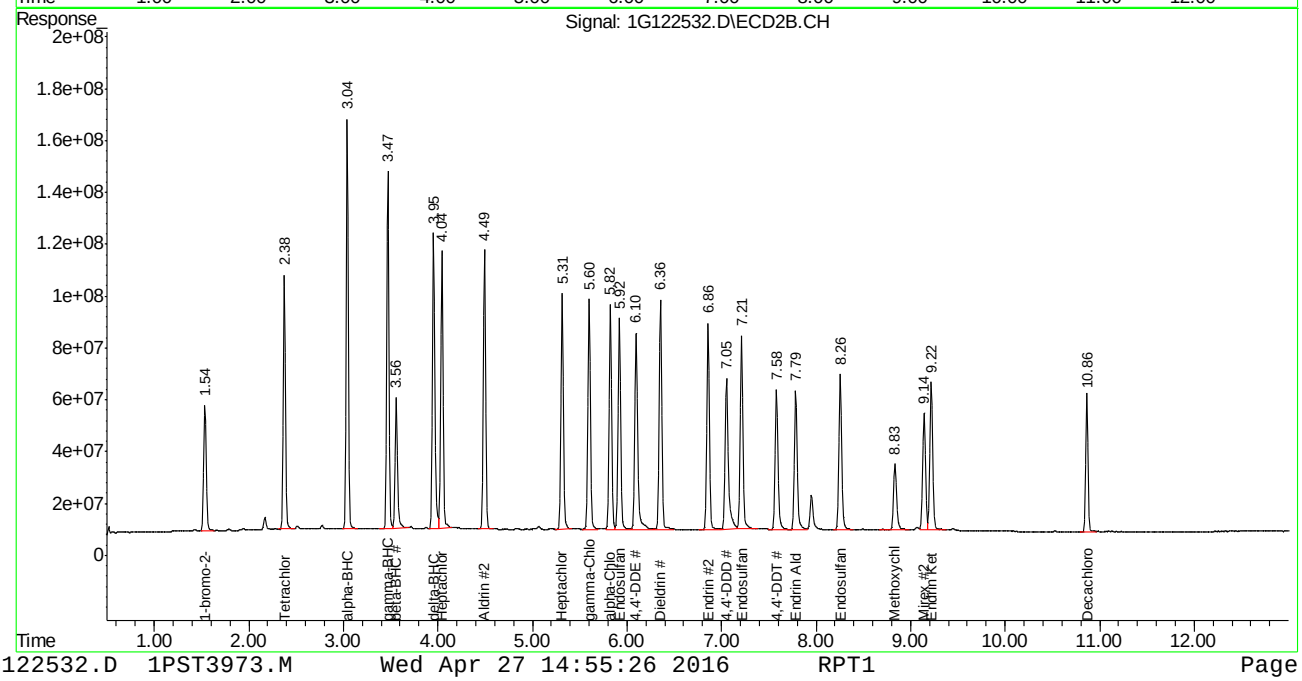
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122532.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122532.D\ECD2B.CH
Acq On : 4-27-16 01:45:26 PM Operator: dharas
Sample : ic3973-100 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:55 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD2B.CH
Acq On : 4-27-16 02:02:54 PM Operator: dharas
Sample : ic3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:07 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:05:41 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	62870373	997.8E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.17	1.54	62870373	997.8E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.17	1.54	62870373	997.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	59898439	798.8E6	45.468	44.260
Spiked Amount	40.000	Range	30 - 150	Recovery	=	113.67%	110.65%
24) SA	Decachlorobiphen	8.94	10.87	103.2E6	468.5E6	44.376	44.502
Spiked Amount	40.000			Recovery	=	110.94%	111.26%
	Target Compounds						
32)	Chlordane {A}	2.98	4.04	44475816	539.5E6	991.174	869.711
33)	Chlordane {B}	3.44	4.69	34296300	313.5E6	520.942	498.451
34)	Chlordane {C}	4.15	5.60	106.8E6	1047.2E6	502.827	498.445
35)	Chlordane {D}	4.31	5.83	173.3E6	1762.4E6	502.056	498.663m
36)	Chlordane {E}	5.33	7.29	24356532	287.9E6	527.569	499.352

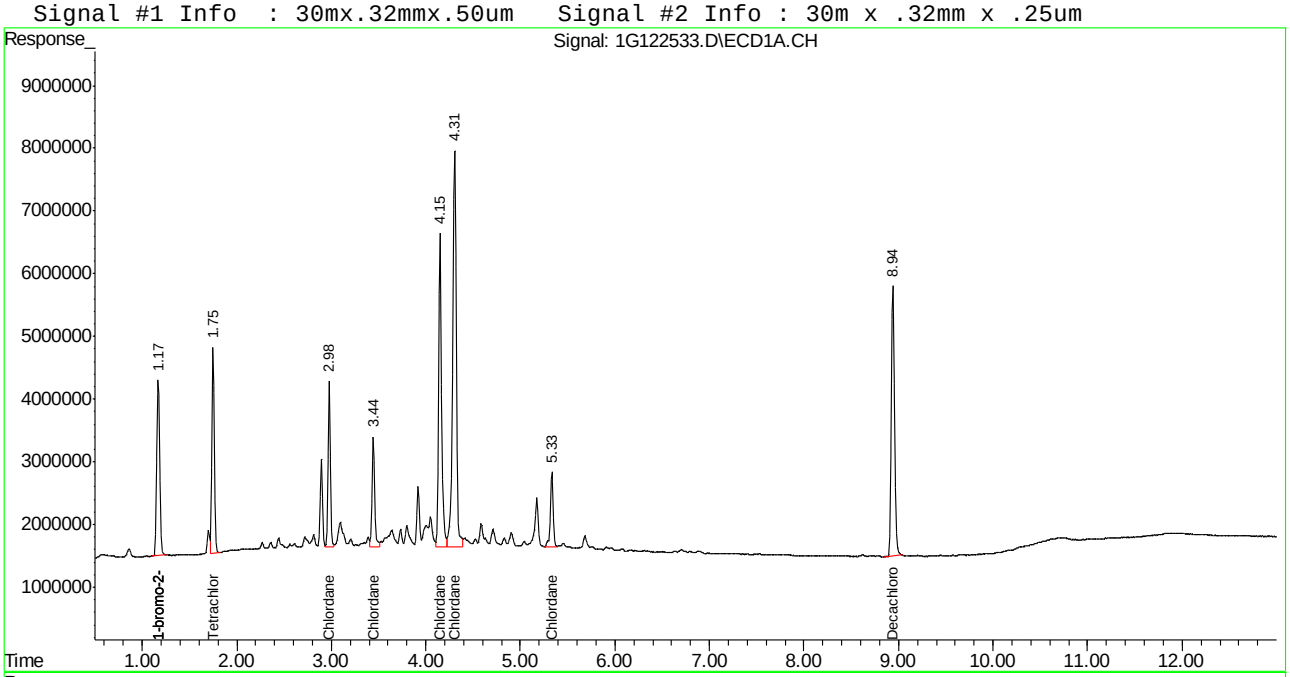
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122533.D 1PST3973.M Wed Apr 27 16:07:18 2016 RPT1 Page 1

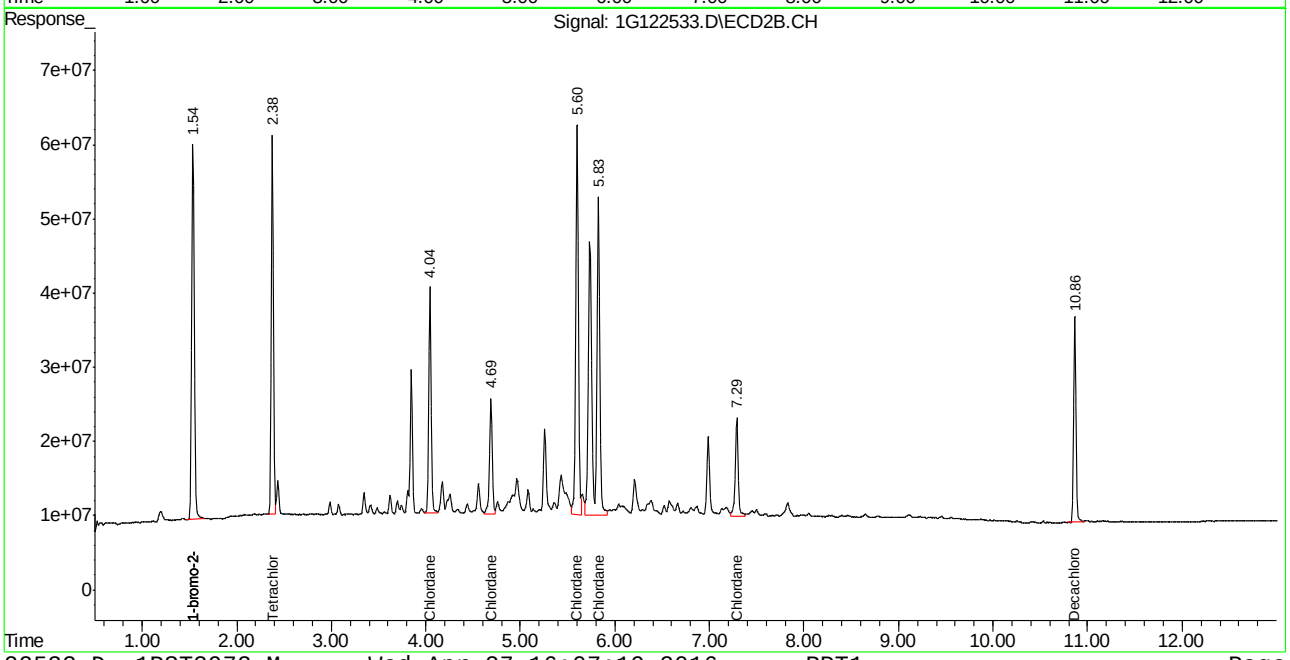
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD2B.CH
Acq On : 4-27-16 02:02:54 PM Operator: dharas
Sample : ic3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:07 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:05:41 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

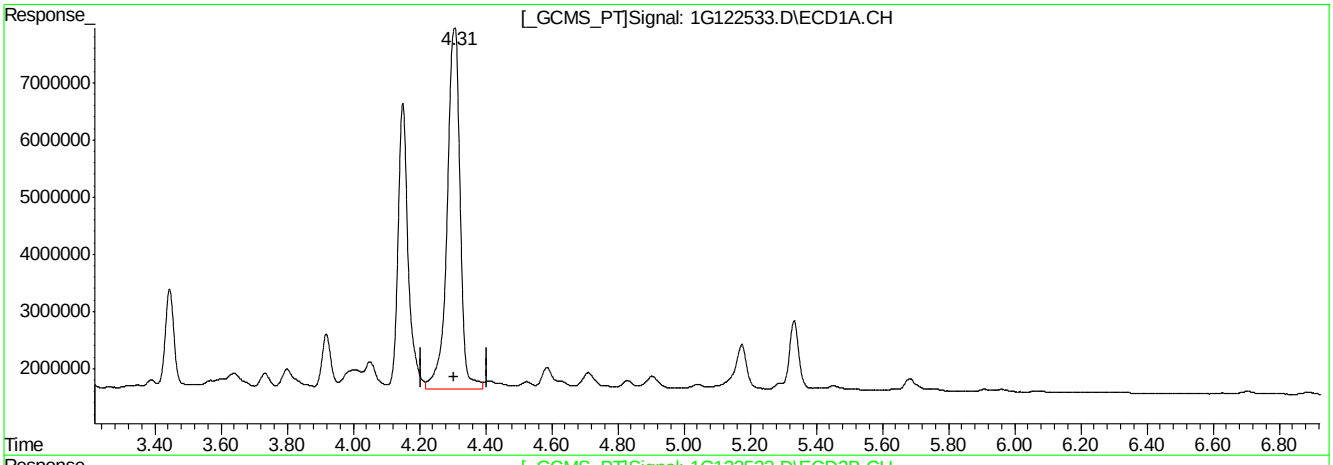
Sample Number:	G1G3973-IC3973	**Method:**	SW846 8081B
Lab FileID:	1G122533.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 14:02	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

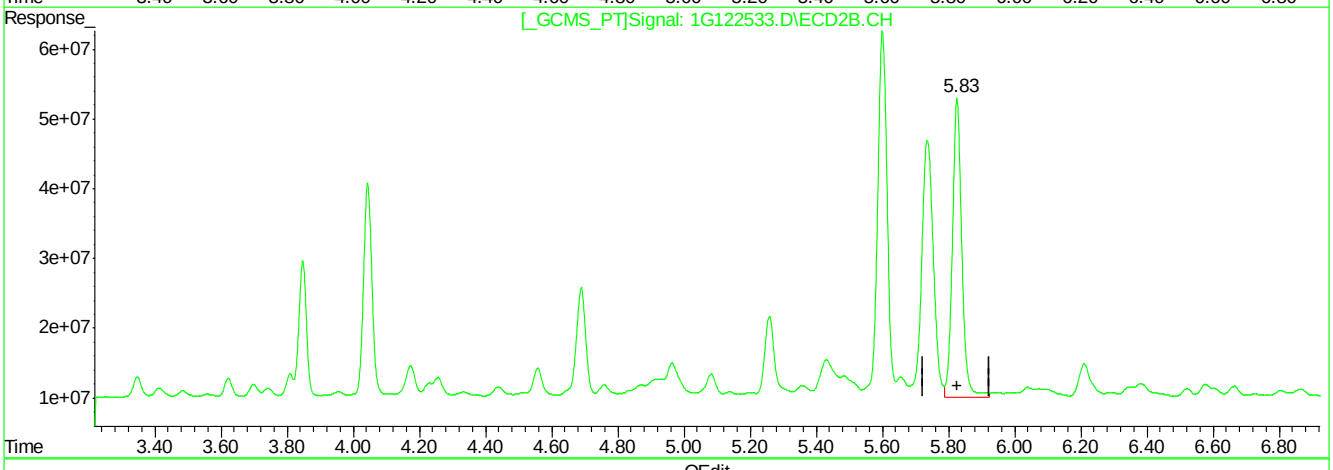
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.83	Split peak

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD2B.CH
Acq On    : 4-27-16 02:02:54 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:05 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:05:41 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.31min 502.056PPB

response 173288732

(35) Chlordane {D} #2

5.83min 241.501PPB

response 853505487

(+) = Expected Retention Time

1G122533.D 1PST3973.M Wed Apr 27 16:06:31 2016 RPT1

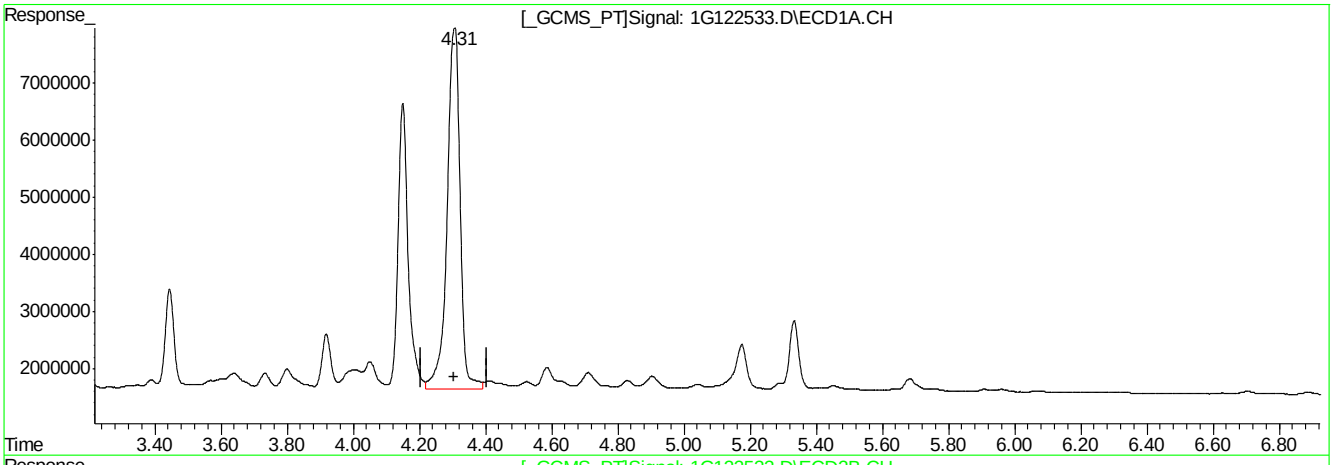
9.6.9.2

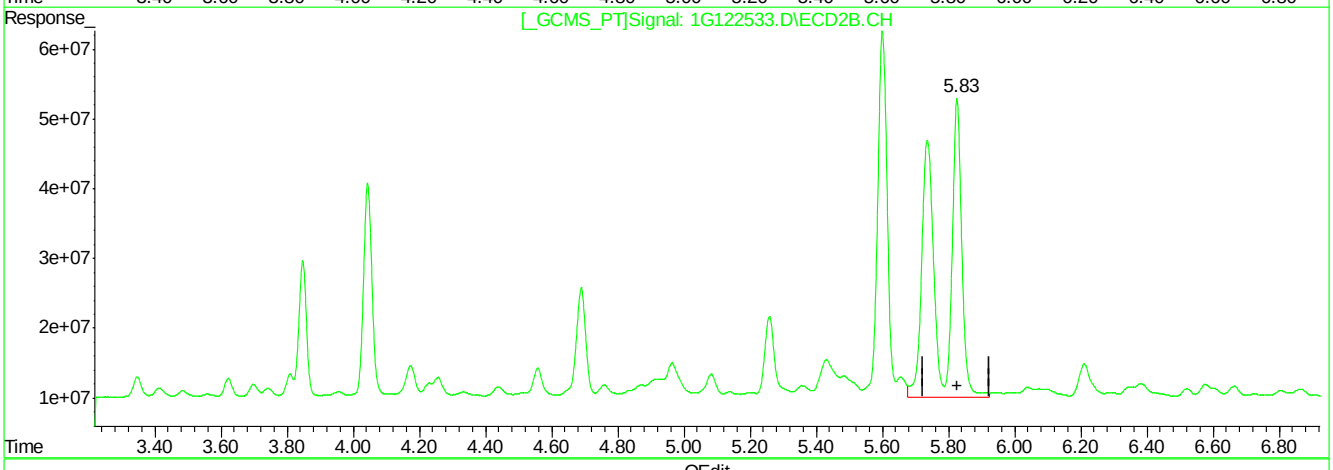
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD2B.CH
Acq On    : 4-27-16 02:02:54 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:05 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:05:41 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.31min 502.056PPB

response 173288732

(35) Chlordane {D} #2

5.83min 498.663PPB m

response 1762356898

(+) = Expected Retention Time

1G122533.D 1PST3973.M Wed Apr 27 16:06:55 2016 RPT1

9.6.9.3

9

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On : 4-27-16 02:20:24 PM Operator: dharas
Sample : ic3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:56 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
25) I	1-bromo-2-nitrob	1.17	1.54	62037752	1026.6E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
26) L8	Toxaphene{A}	4.81	6.32	13730720	204.9E6	626.720m	463.922
27) L8	Toxaphene{B}	5.42	7.18	32123504	254.1E6	551.380m	494.120
28) L8	Toxaphene{C}	5.60	7.35	24966468	382.3E6	563.230	389.645
29) L8	Toxaphene{D}	5.93	7.79	23828150	230.8E6	532.313	408.653
30) L8	Toxaphene{E}	6.57	8.69	22704377	168.8E6	574.506	381.424

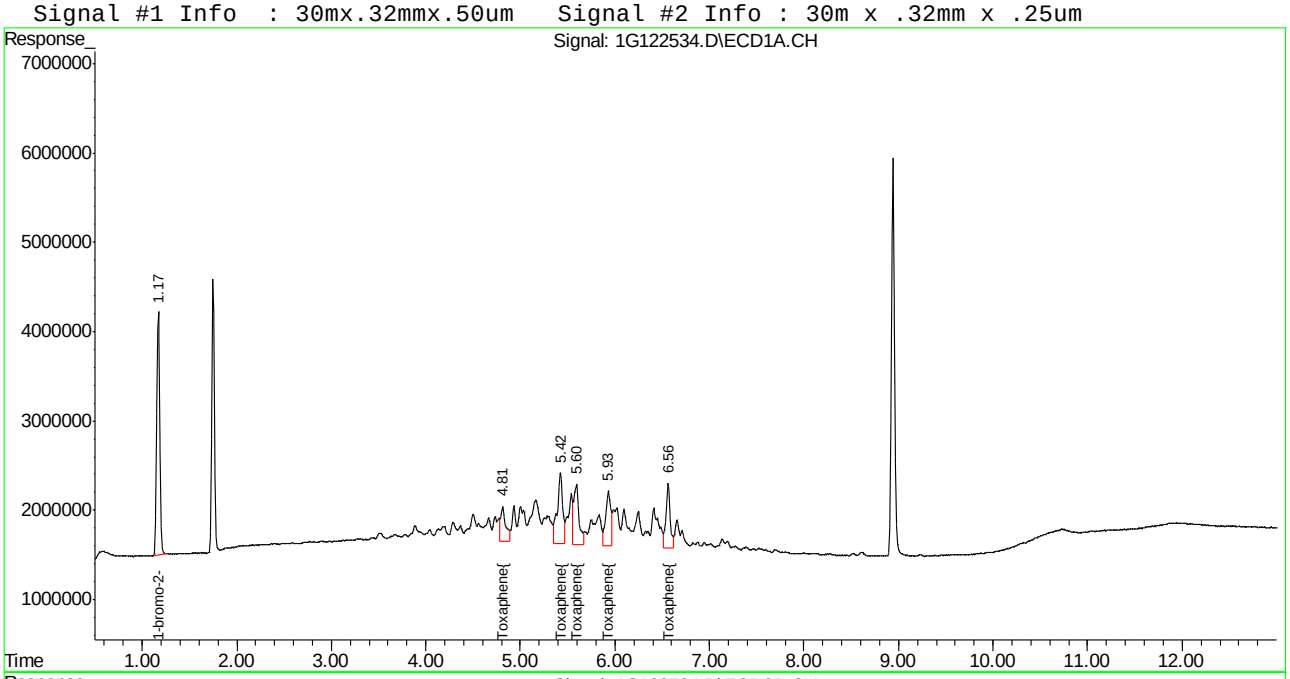
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122534.D 1PST3973.M Wed Apr 27 14:56:32 2016 RPT1 Page 1

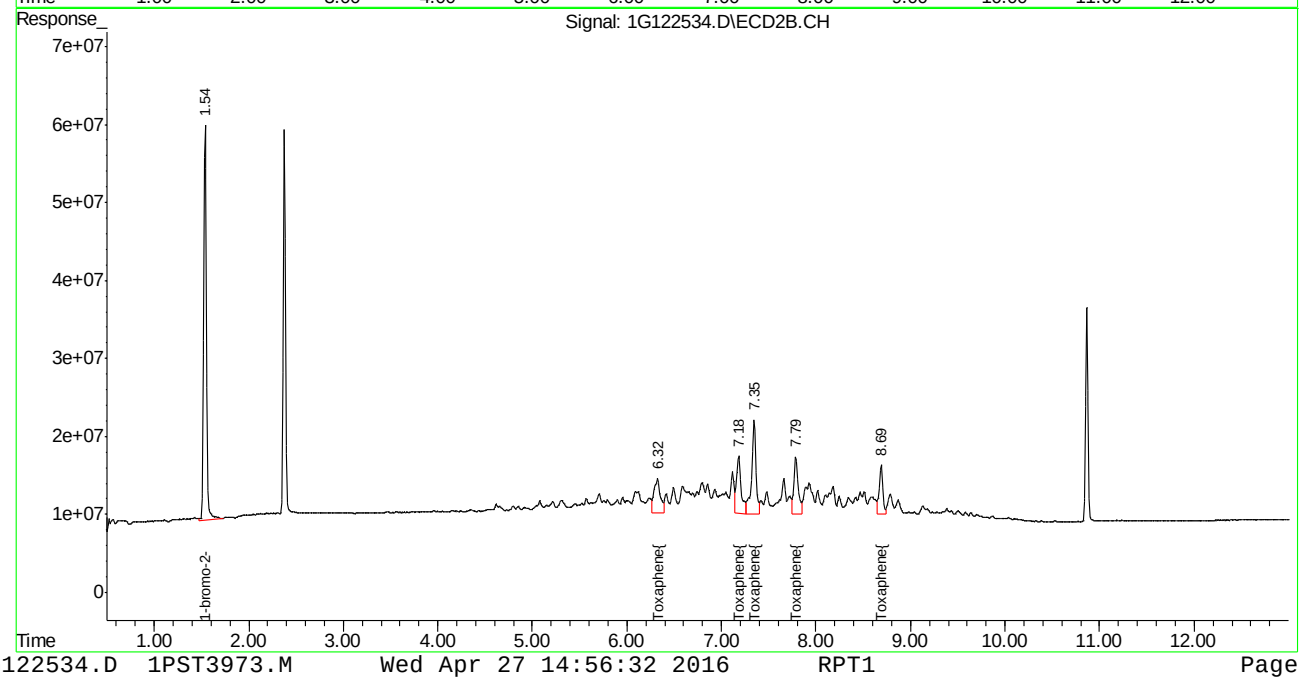
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On : 4-27-16 02:20:24 PM Operator: dharas
Sample : ic3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:56 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

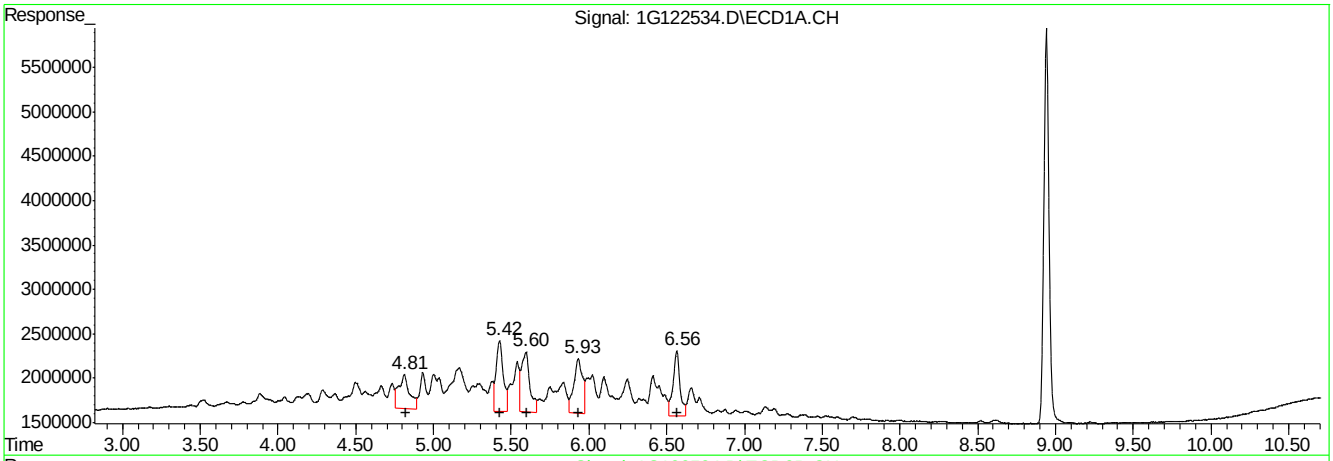
Sample Number:	G1G3973-IC3973	**Method:**	SW846 8081B
Lab FileID:	1G122534.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 14:20	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

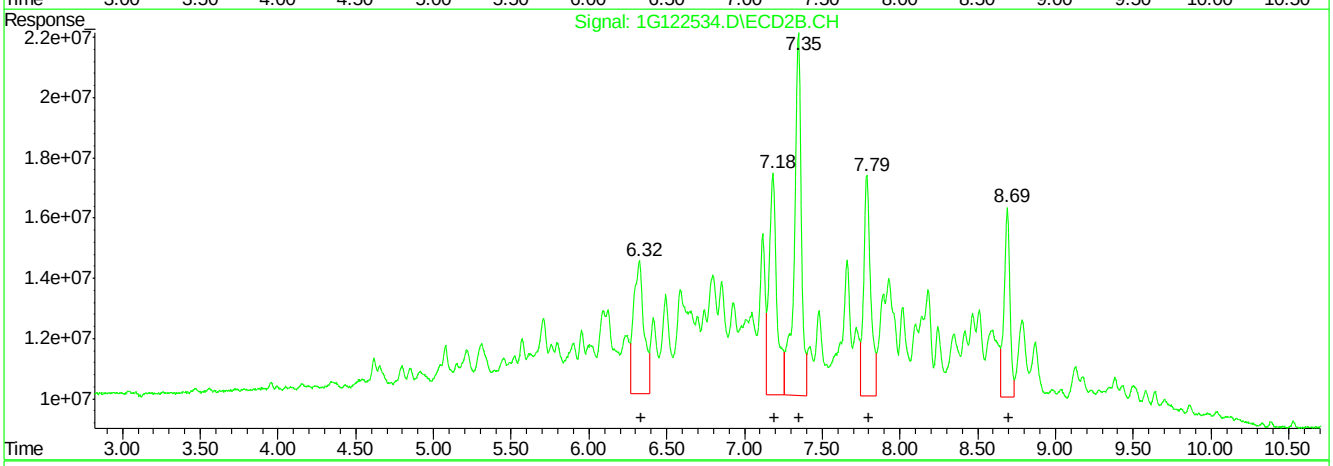
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-A		1	4.81	Poor instrument integration
Toxaphene-B		1	5.42	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On    : 4-27-16 02:20:24 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:46 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
4.81	18707843	853.89
5.42	25308456	434.40
5.60	24966468	563.23
5.93	23828150	532.31
6.57	22704377	574.51

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.32	204932438	463.92
7.18	254124998	494.12
7.35	382263914	389.64
7.79	230797432	408.65
8.69	168815105	381.42

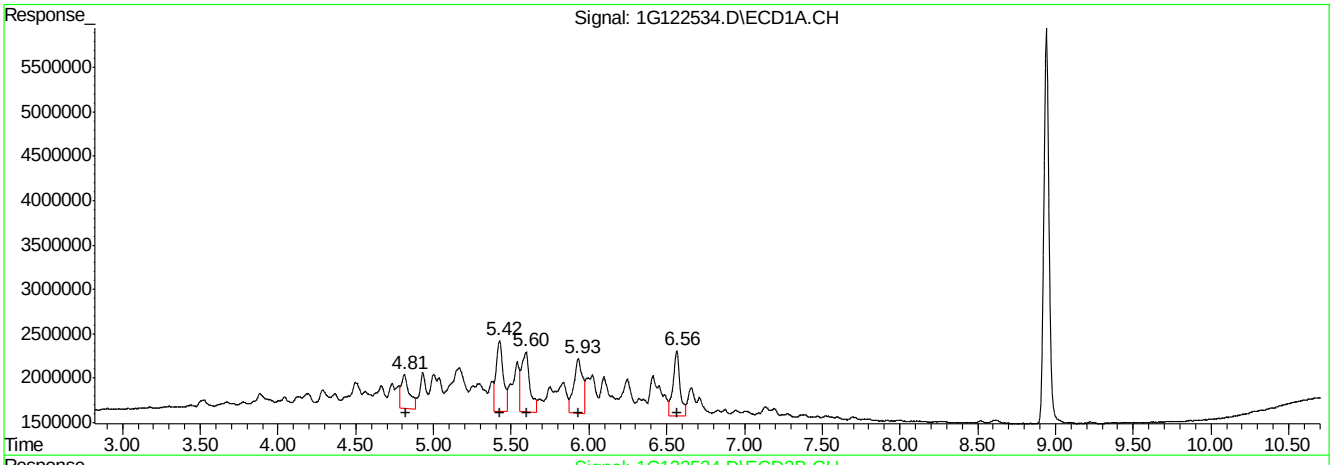
(+) = Expected Retention Time

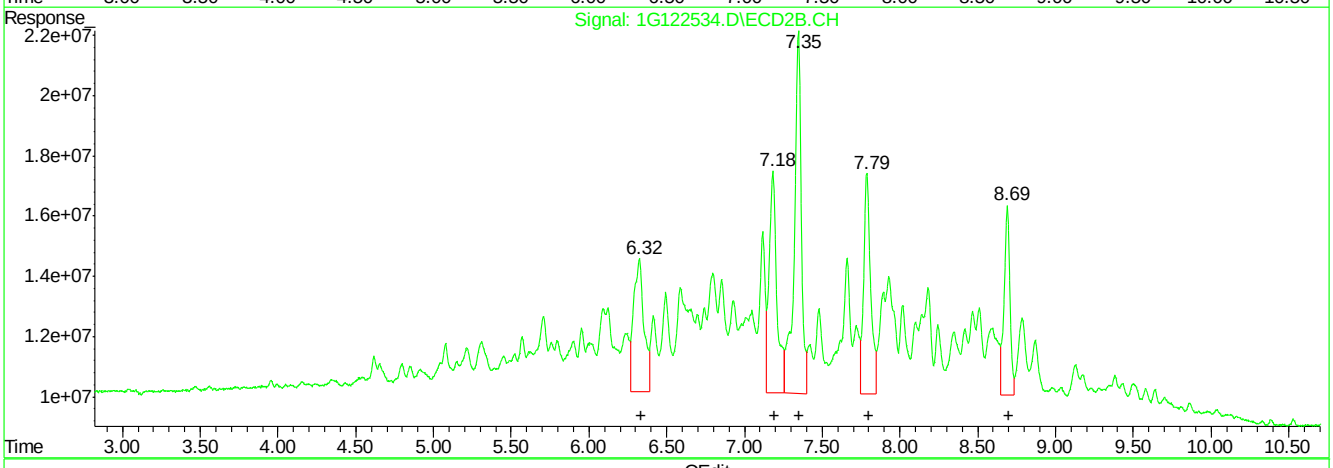
1G122534.D 1PST3973.M Wed Apr 27 14:47:03 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On : 4-27-16 02:20:24 PM Operator: dharas
Sample : ic3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:46 2016 Quant Results File: 1PST3973.RES

Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration





QEdit

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
4.81	13730720	626.72
5.42	25308456	434.40
5.60	24966468	563.23
5.93	23828150	532.31
6.57	22704377	574.51

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.32	204932438	463.92
7.18	254124998	494.12
7.35	382263914	389.64
7.79	230797432	408.65
8.69	168815105	381.42

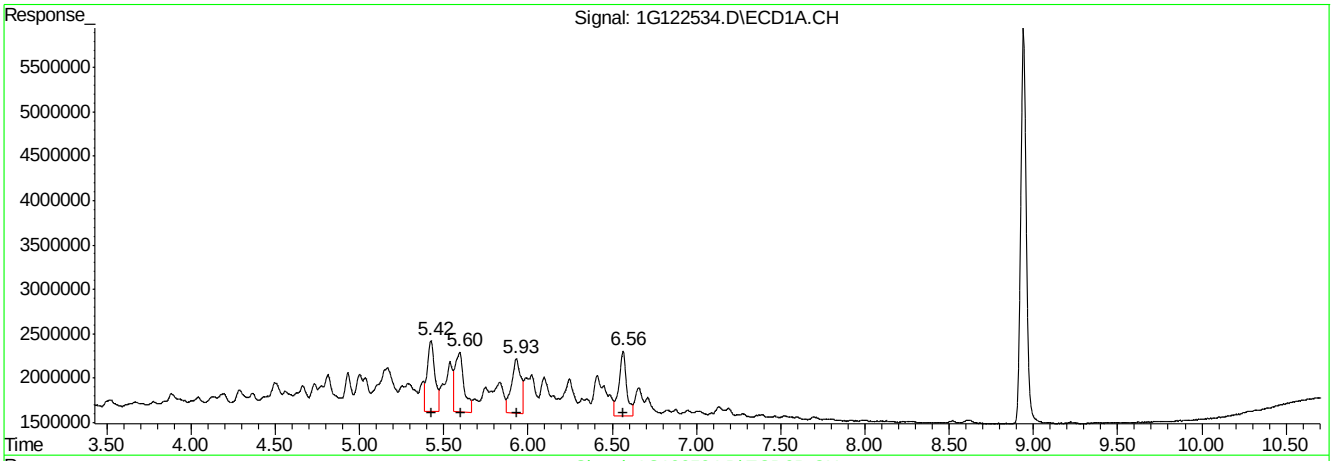
(+) = Expected Retention Time

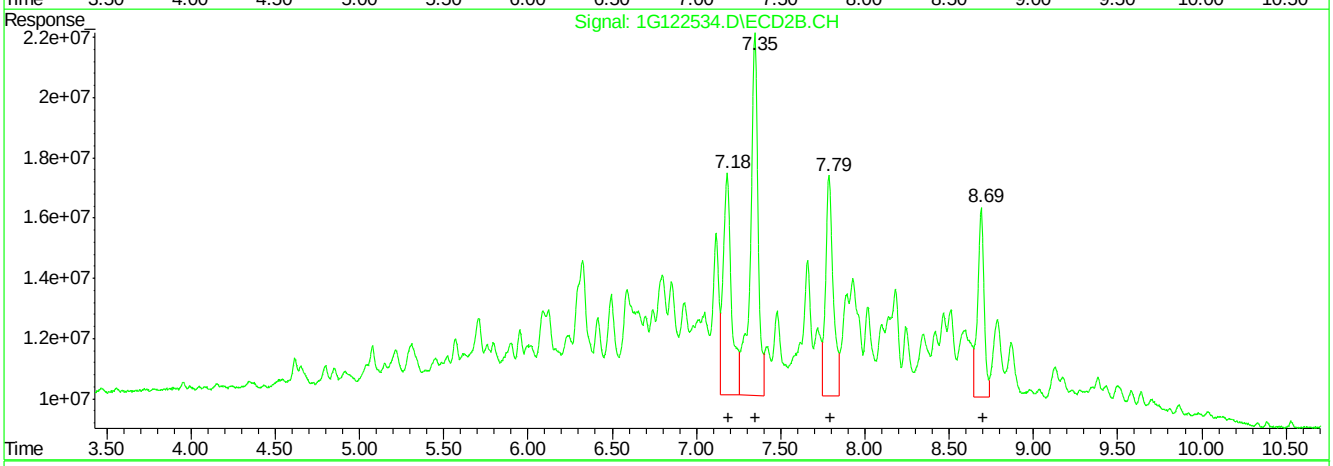
1G122534.D 1PST3973.M Wed Apr 27 14:48:22 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On    : 4-27-16 02:20:24 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:46 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(27) Toxaphene{B} (L8)

R.T.	Response	Conc
5.42	25308456	434.40
5.60	24966468	563.23
5.93	23828150	532.31
6.57	22704377	574.51

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
7.18	254124998	494.12
7.35	382263914	389.64
7.79	230797432	408.65
8.69	168815105	381.42

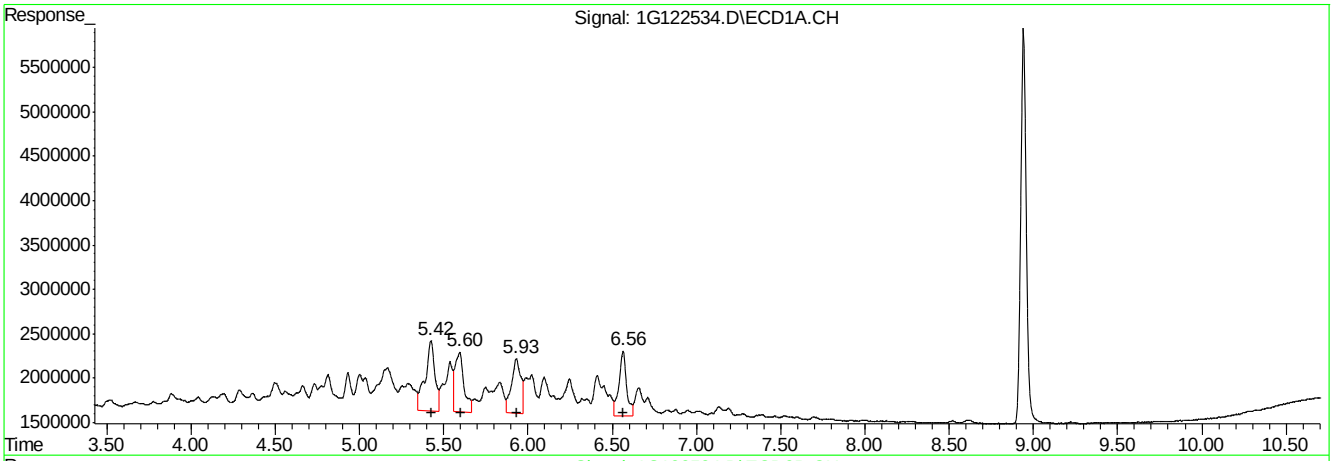
(+) = Expected Retention Time

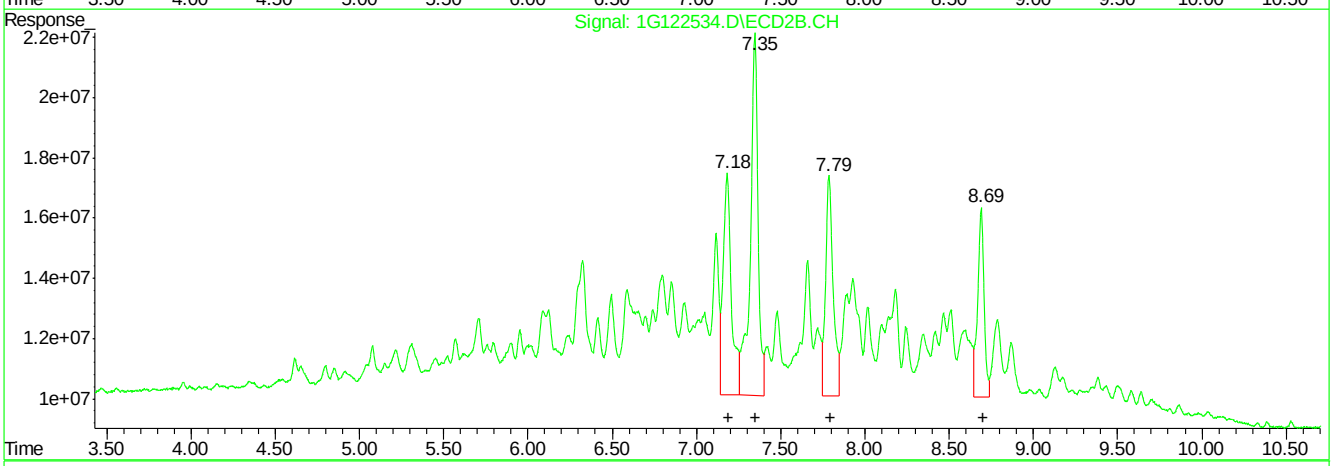
1G122534.D 1PST3973.M Wed Apr 27 14:48:38 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On    : 4-27-16 02:20:24 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:46 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
5.42	32123504	551.38
5.60	24966468	563.23
5.93	23828150	532.31
6.57	22704377	574.51

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
7.18	254124998	494.12
7.35	382263914	389.64
7.79	230797432	408.65
8.69	168815105	381.42

(+) = Expected Retention Time

1G122534.D 1PST3973.M Wed Apr 27 14:49:25 2016 RPT1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD2B.CH
Acq On : 4-27-16 02:37:54 PM Operator: dharas
Sample : icv3973-25 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:35 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 15:00:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	62654048	994.2E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.17	1.54	62654048	994.2E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.17	1.54	62654048	994.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	28023533	395.9E6	21.346	22.015
Spiked Amount	40.000 Range	30 - 150	Recovery	=		53.36%	55.04%
24) SA	Decachlorobiphen	8.94	10.87	52076323	243.5E6	22.465	23.210
Spiked Amount	40.000		Recovery	=		56.16%	58.03%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	33080967	572.1E6	20.528	20.998
4) MA	gamma-BHC	2.51	3.47	32360319	510.4E6	20.726	21.068
5) MA	Heptachlor	2.98	4.04	34629944	451.6E6	20.275	21.178
6) B	beta-BHC	2.59	3.56	16315476	222.6E6	21.229	21.715
7) B	delta-BHC	2.77	3.96	29608596	509.9E6	22.372	22.570
8) MB	Aldrin	3.30	4.49	33922250	466.5E6	20.443	20.615
9) B	Heptachlor Epoxi	3.99	5.32	35391537	424.6E6	21.268	21.259
10) B	gamma-Chlordane	4.15	5.60	35381480	425.8E6	20.985	21.624
11) B	alpha-Chlordane	4.31	5.83	35028055	401.2E6	20.671	20.881
12) A	Endosulfan I	4.49	5.92	38051439	396.0E6	21.024	20.808
13) B	4,4'-DDE	4.44	6.10	27408130	419.5E6	20.033	22.039
14) MA	Dieldrin	4.80	6.35	34831584	443.5E6	21.202	22.000
15) MA	Endrin	5.12	6.86	32988523	401.3E6	21.870	22.497
16) A	4,4'-DDD	5.27	7.06	25224435	361.3E6	21.876	21.729
17) B	Endosulfan II	5.44	7.21	33389629	388.8E6	21.978	21.987
18) MA	4,4'-DDT	5.66	7.58	22546539	248.8E6	20.902	23.280
19) B	Endrin Aldehyde	6.06	7.79	29427307	306.7E6	23.231	24.107
20) B	Endosulfan Sulfa	6.74	8.26	29835396	317.2E6	21.155	22.084
21) A	Methoxychlor	6.46	8.84	16333970	130.6E6	22.363	21.585
23) B	Endrin Ketone	7.16	9.22	29958726	291.3E6	21.408	21.896

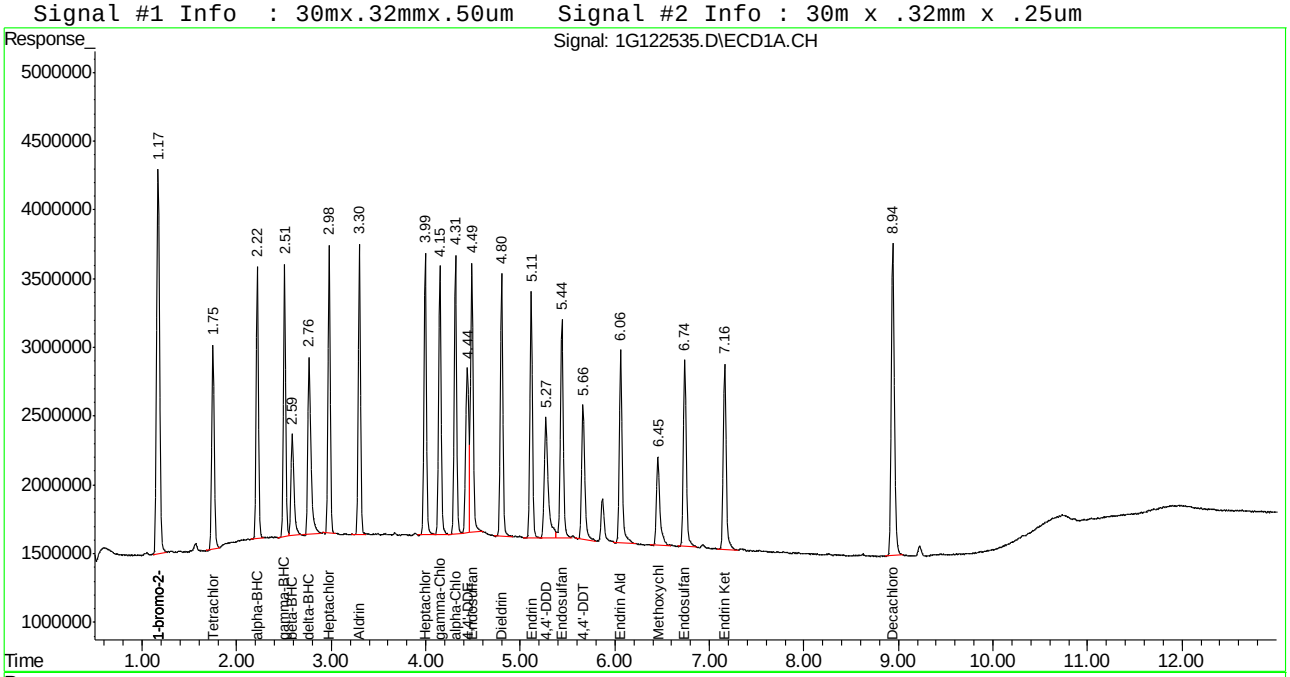
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122535.D 1PST3973.M Wed Apr 27 15:35:32 2016 RPT1 Page 1

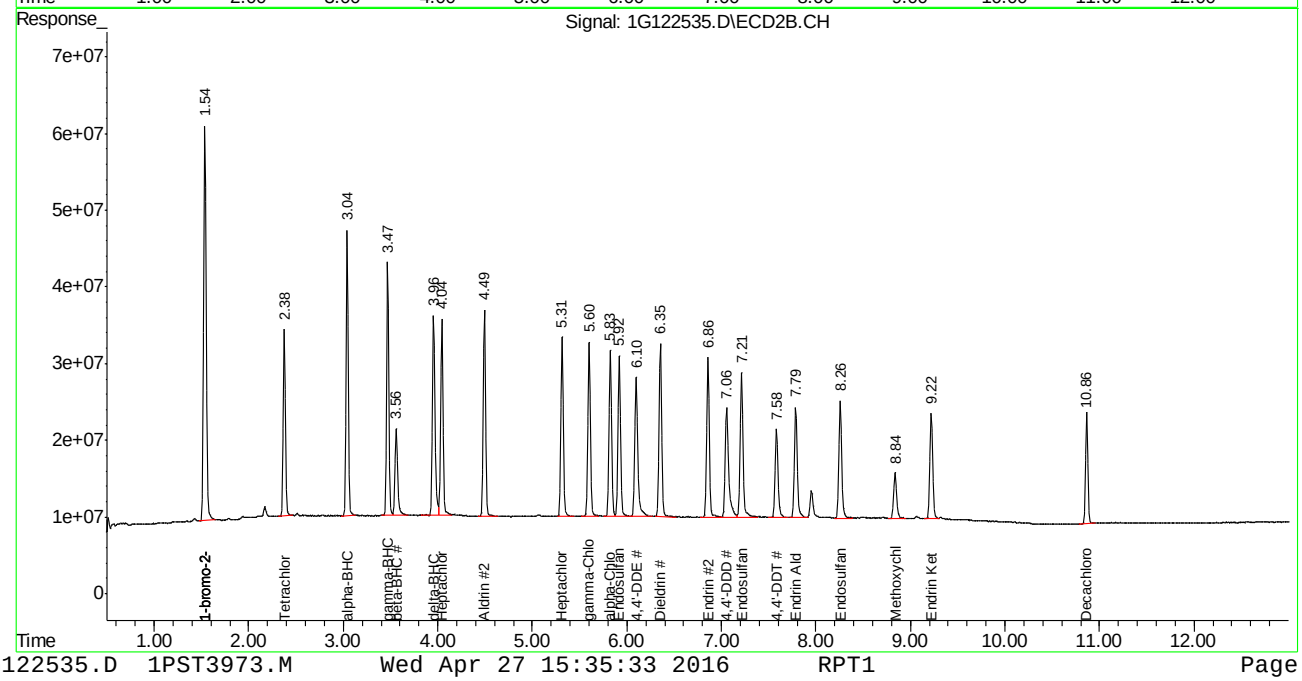
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD2B.CH
Acq On : 4-27-16 02:37:54 PM Operator: dharas
Sample : icv3973-25 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:35 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 15:00:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD2B.CH
Acq On    : 4-27-16 02:55:30 PM                      Operator: dharas
Sample    : icv3973-25                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:36 2016  Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 15:00:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```

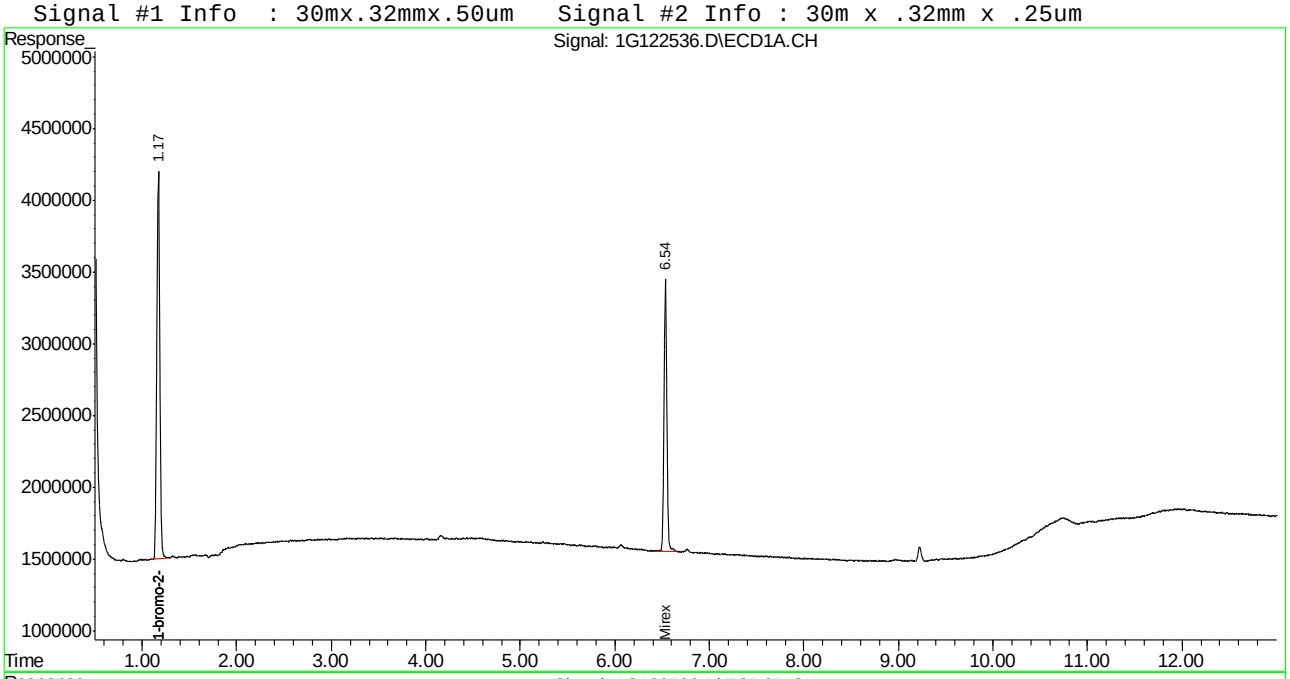
		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		Internal Standards						
1)	I	1-bromo-2-nitrob	1.17	1.54	59989264	982.9E6	50.000	50.000
25)	I	1-bromo-2-nitrob	1.17	1.54	59989264	982.9E6	50.000	50.000
31)	I	1-bromo-2-nitrob	1.17	1.54	59989264	982.9E6	50.000	50.000
		System Monitoring Compounds						
		Target Compounds						
22)		Mirex	6.54	9.15	39227107	274.7E6	23.102	24.117

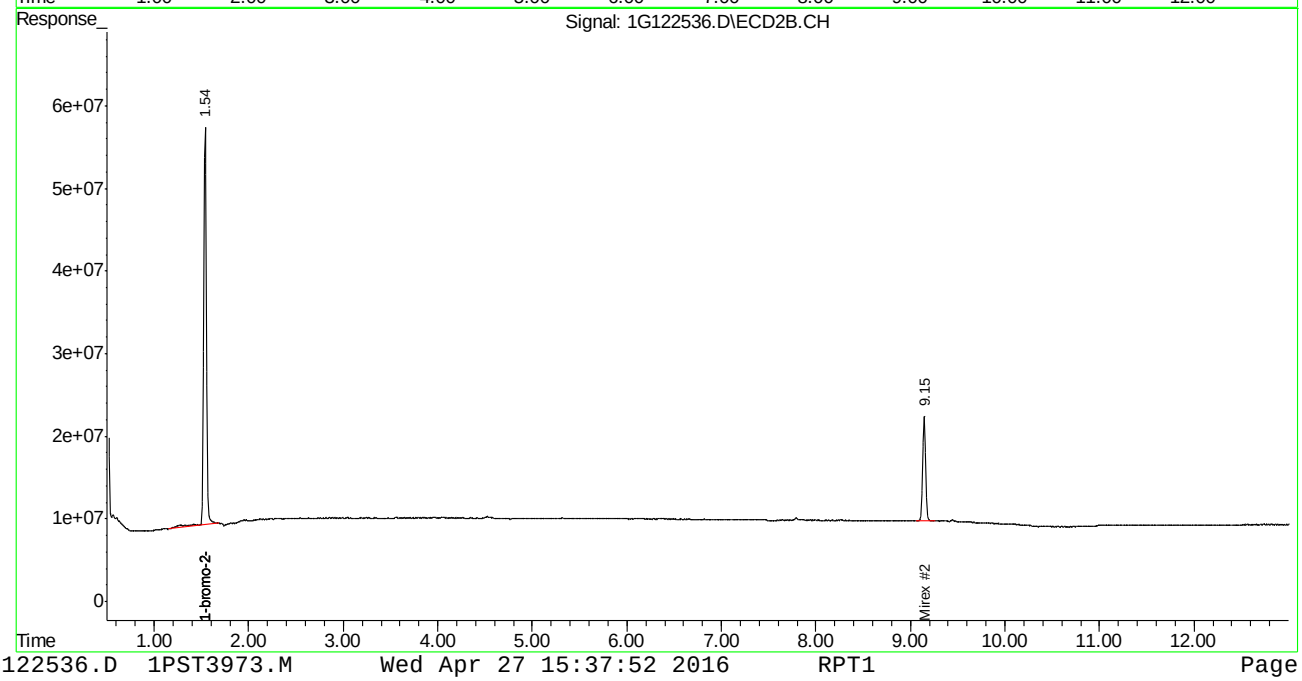
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD2B.CH
Acq On : 4-27-16 02:55:30 PM Operator: dharas
Sample : icv3973-25 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:36 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 15:00:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD2B.CH
Acq On : 4-27-16 03:12:59 PM Operator: dharas
Sample : icv3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:12 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:10:51 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	60625194	960.7E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.17	1.54	60625194	960.7E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.17	1.54	60625194	960.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	54389117	724.3E6	42.815	41.685
Spiked Amount	40.000	Range	30 - 150	Recovery	=	107.04%	104.21%
24) SA	Decachlorobiphen	8.94	10.87	101.2E6	466.4E6	45.128	46.018
Spiked Amount	40.000			Recovery	=	112.82%	115.05%
	Target Compounds						
32)	Chlordane {A}	2.98	4.04	35263537	483.5E6	411.116	465.452
33)	Chlordane {B}	3.45	4.69	29949992	329.4E6	452.806	545.670
34)	Chlordane {C}	4.15	5.60	101.2E6	1030.1E6	491.253	510.818
35)	Chlordane {D}	4.31	5.82	167.5E6	1733.6E6	501.070	510.835m
36)	Chlordane {E}	5.33	7.29	26210372	294.7E6	557.983	531.605

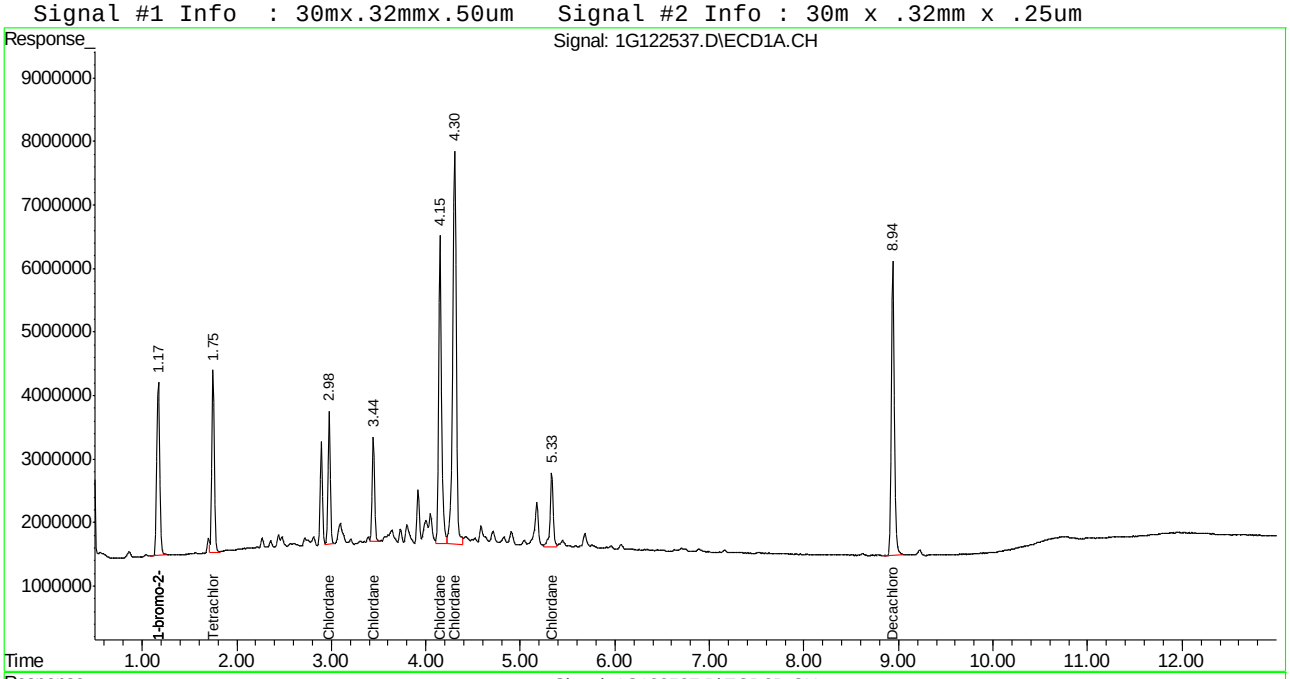
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122537.D 1PST3973.M Wed Apr 27 16:12:29 2016 RPT1 Page 1

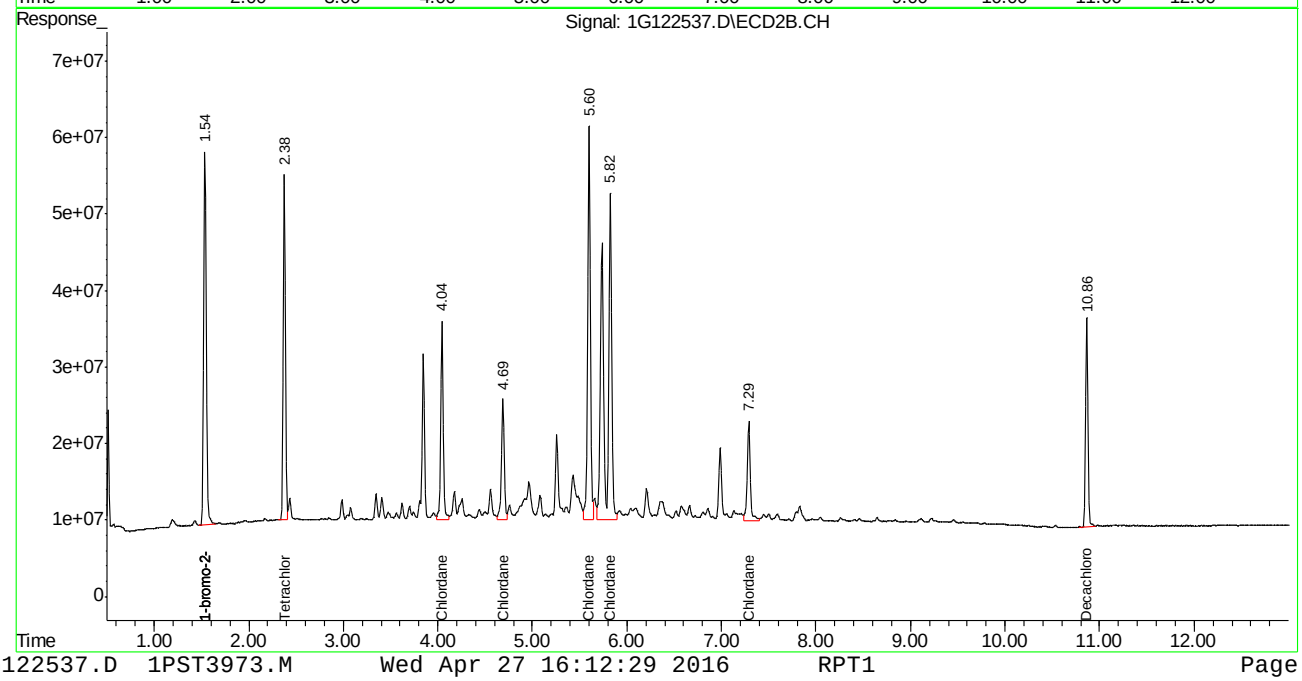
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD2B.CH
Acq On : 4-27-16 03:12:59 PM Operator: dharas
Sample : icv3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:12 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:10:51 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

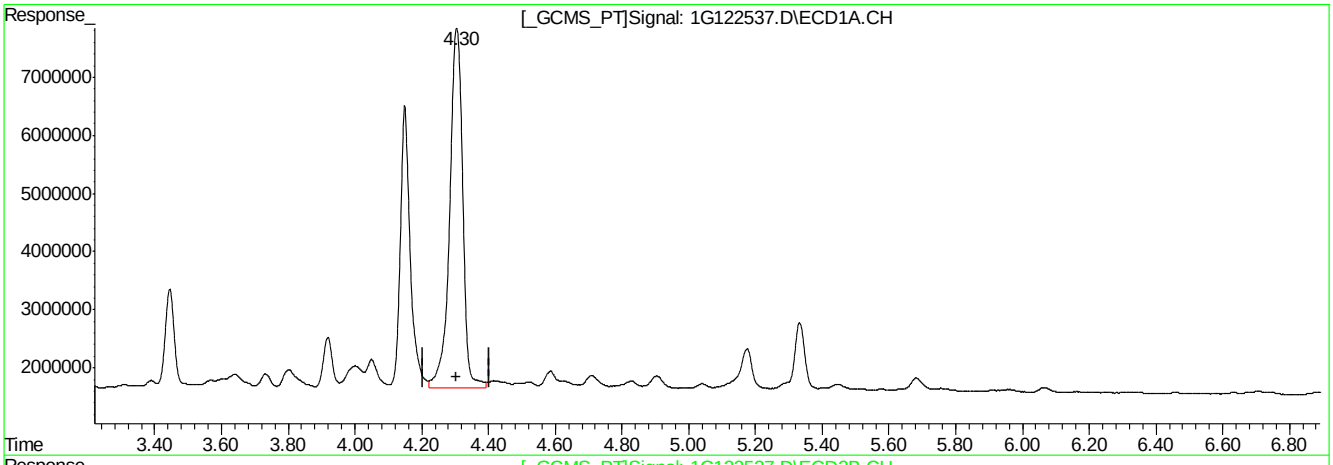
Sample Number:	G1G3973-ICV3973	**Method:**	SW846 8081B
Lab FileID:	1G122537.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 15:12	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

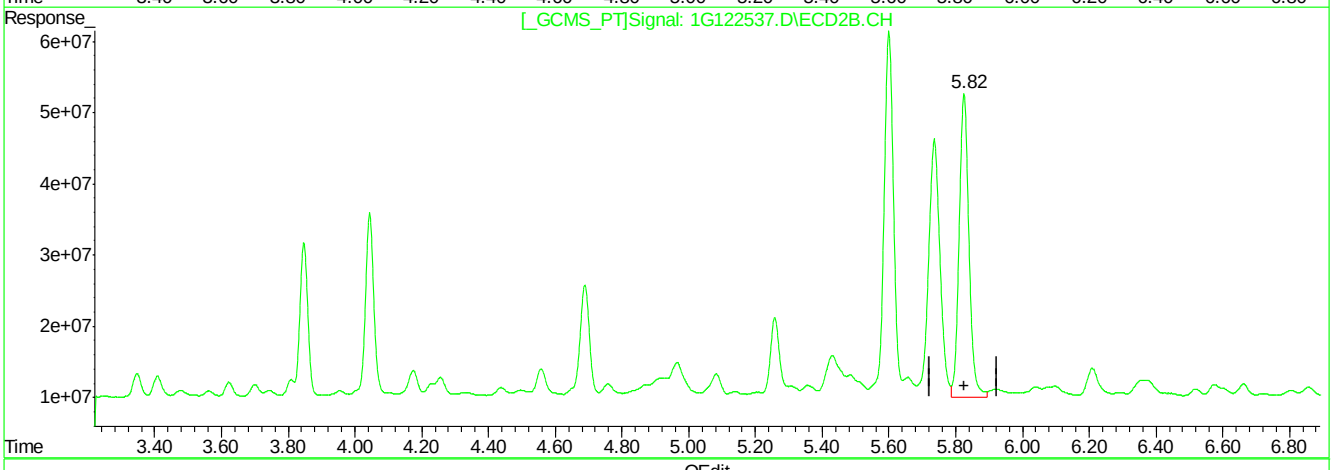
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.82	Split peak

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD2B.CH
Acq On    : 4-27-16 03:12:59 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:11 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:10:51 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.31min 501.070PPB

response 167457938

(35) Chlordane {D} #2

5.83min 255.850PPB

response 868271848

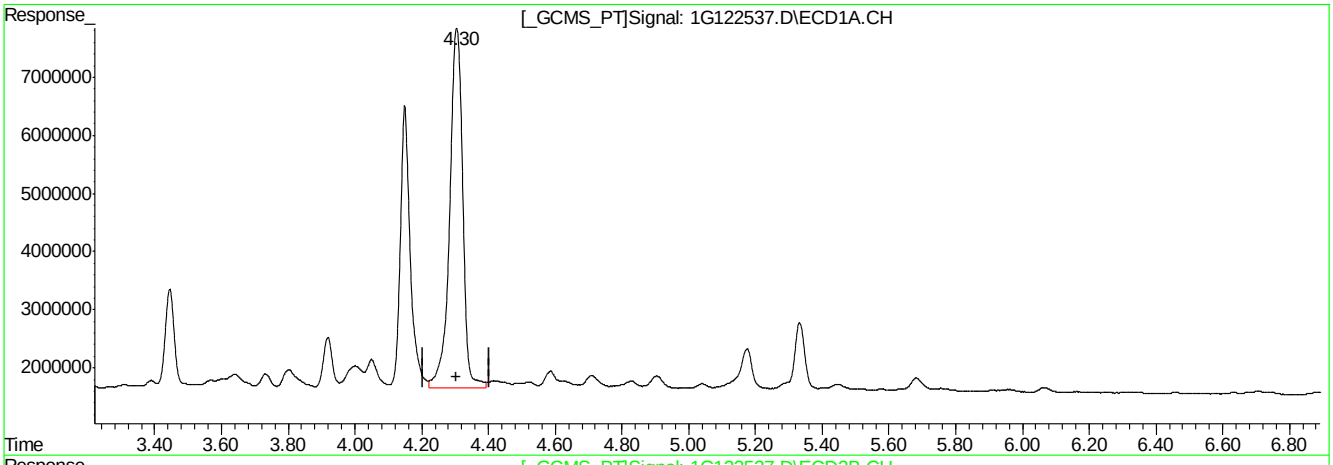
(+) = Expected Retention Time

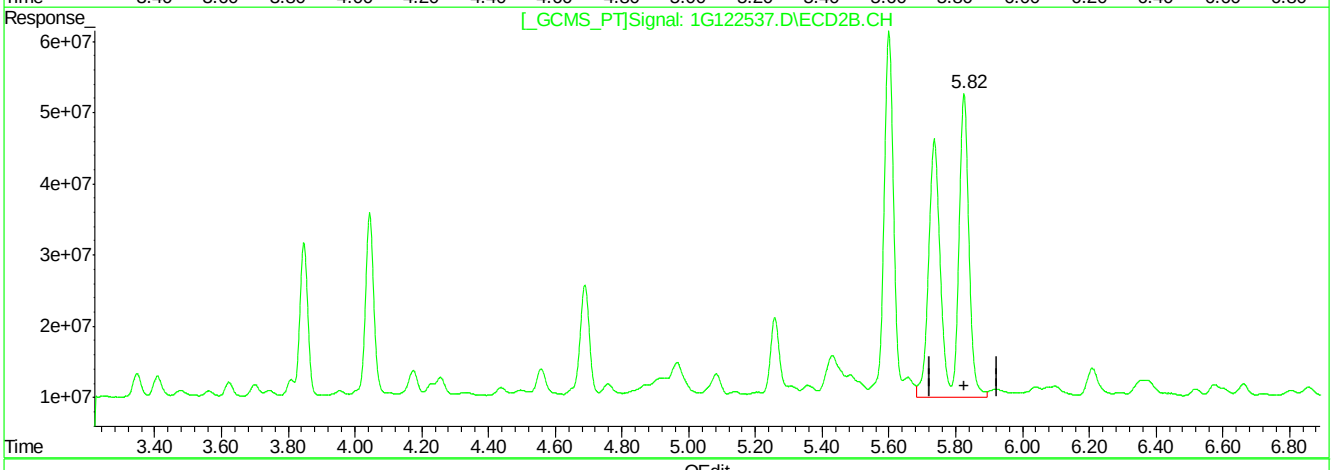
1G122537.D 1PST3973.M Wed Apr 27 16:11:56 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD2B.CH
Acq On    : 4-27-16 03:12:59 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:11 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:10:51 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.31min 501.070PPB

response 167457938

(35) Chlordane {D} #2

5.82min 510.835PPB m

response 1733607291

(+) = Expected Retention Time

1G122537.D 1PST3973.M Wed Apr 27 16:12:22 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD2B.CH
Acq On : 4-27-16 03:30:28 PM Operator: dharas
Sample : icv3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:55 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 15:00:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.17	1.54	61638851	977.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.17	1.54	61638851	977.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.17	1.54	61638851	977.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	52461200	721.9E6	40.618	40.846
Spiked Amount	40.000	Range	30 - 150	Recovery	=	101.55%	102.11%
24) SA	Decachlorobiphen	8.94	10.87	97365793	446.3E6	42.694	43.294
Spiked Amount	40.000			Recovery	=	106.74%	108.23%
	Target Compounds						
26) L8	Toxaphene{A}	4.81	6.32	12777565	223.7E6	468.302	573.474
27) L8	Toxaphene{B}	5.42	7.18	31951412	272.0E6	500.540m	562.202
28) L8	Toxaphene{C}	5.60	7.35	24227930	360.2E6	488.349	495.078
29) L8	Toxaphene{D}	5.93	7.79	23620314	254.3E6	498.846	578.768
30) L8	Toxaphene{E}	6.56	8.69	22586431	182.3E6	500.622	567.210

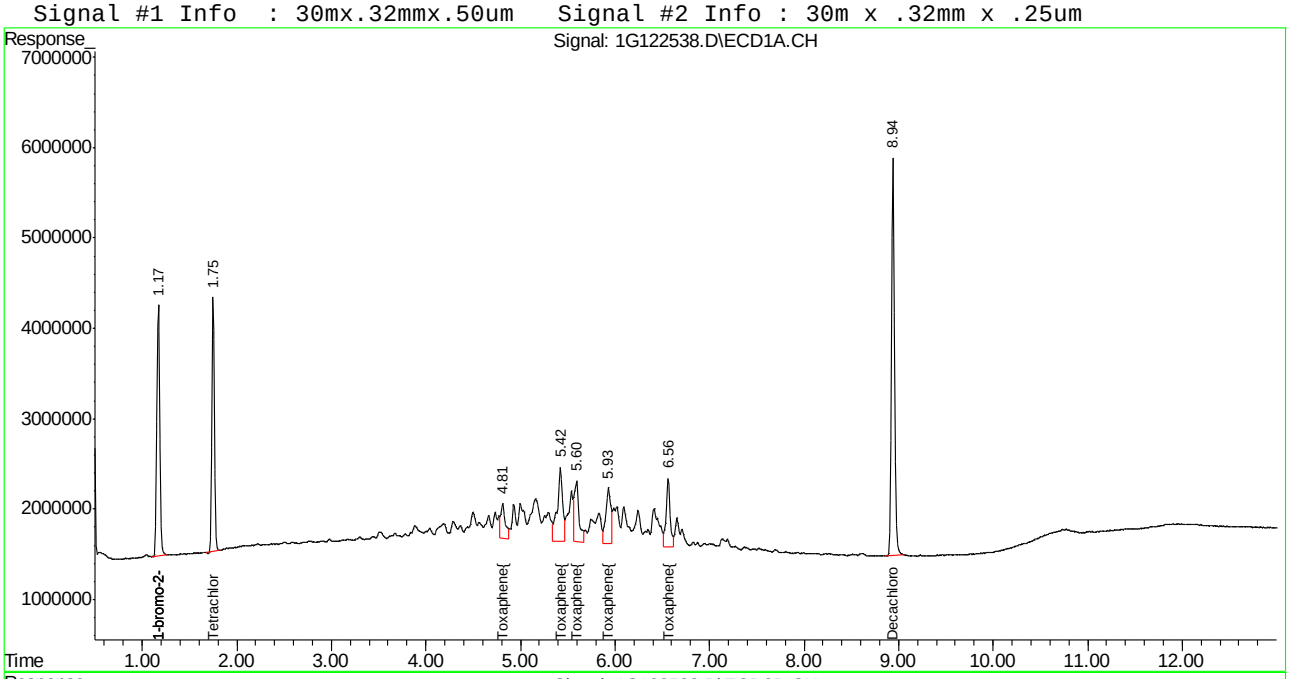
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122538.D 1PST3973.M Wed Apr 27 15:55:44 2016 RPT1 Page 1

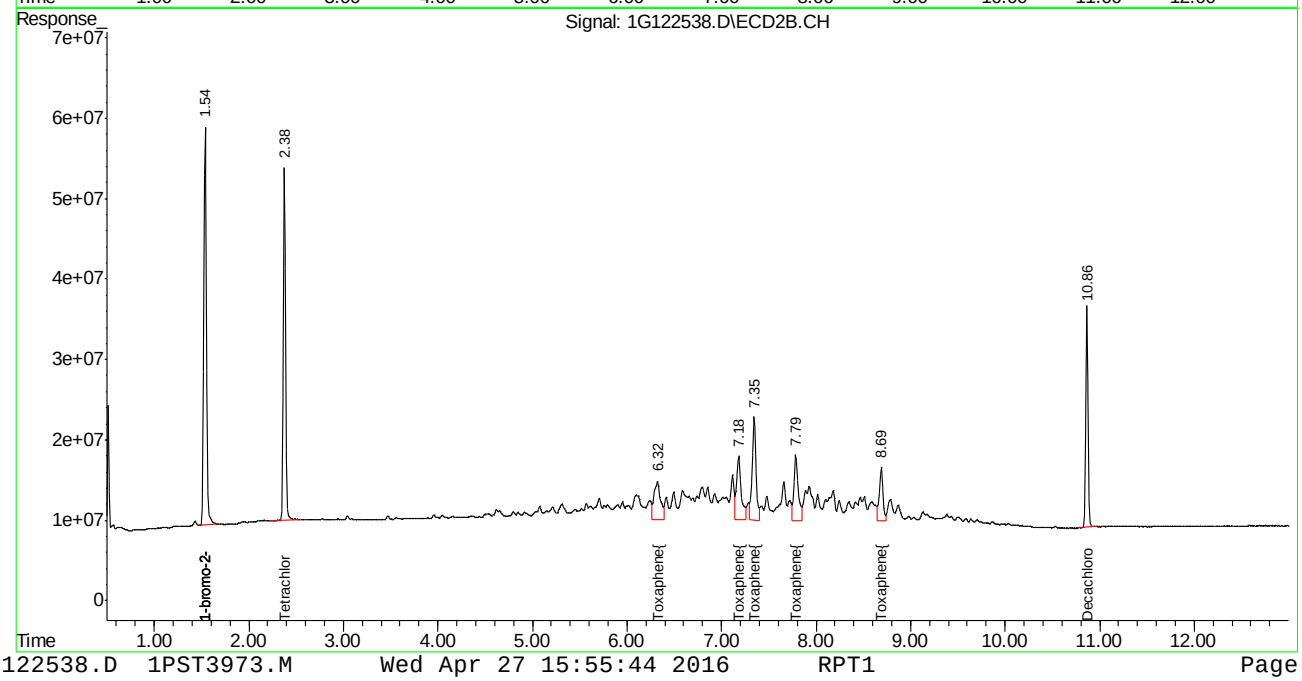
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD2B.CH
Acq On : 4-27-16 03:30:28 PM Operator: dharas
Sample : icv3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:55 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 15:00:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

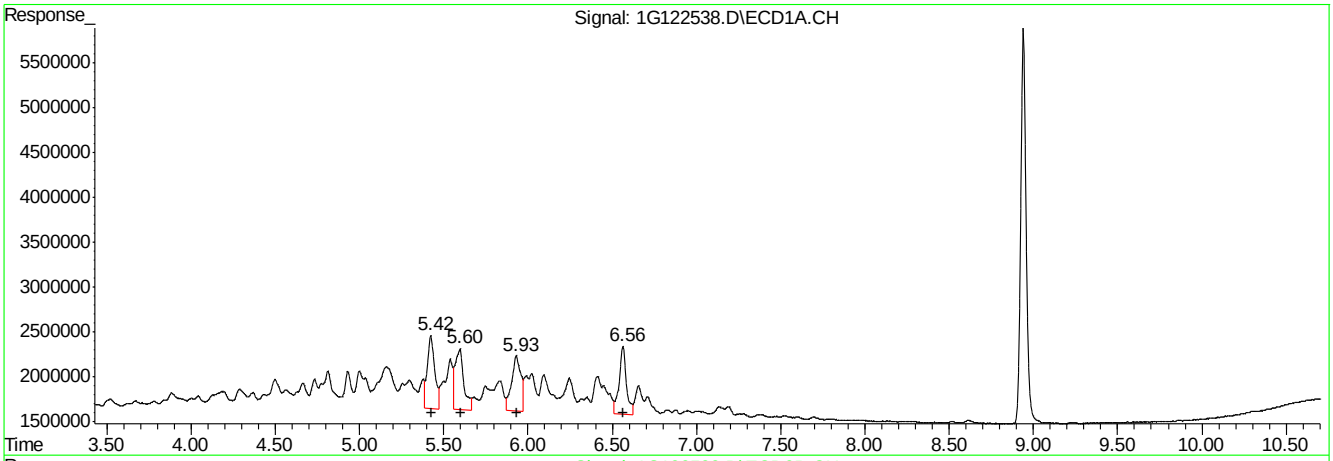
Sample Number:	G1G3973-ICV3973	**Method:**	SW846 8081B
Lab FileID:	1G122538.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 15:30	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

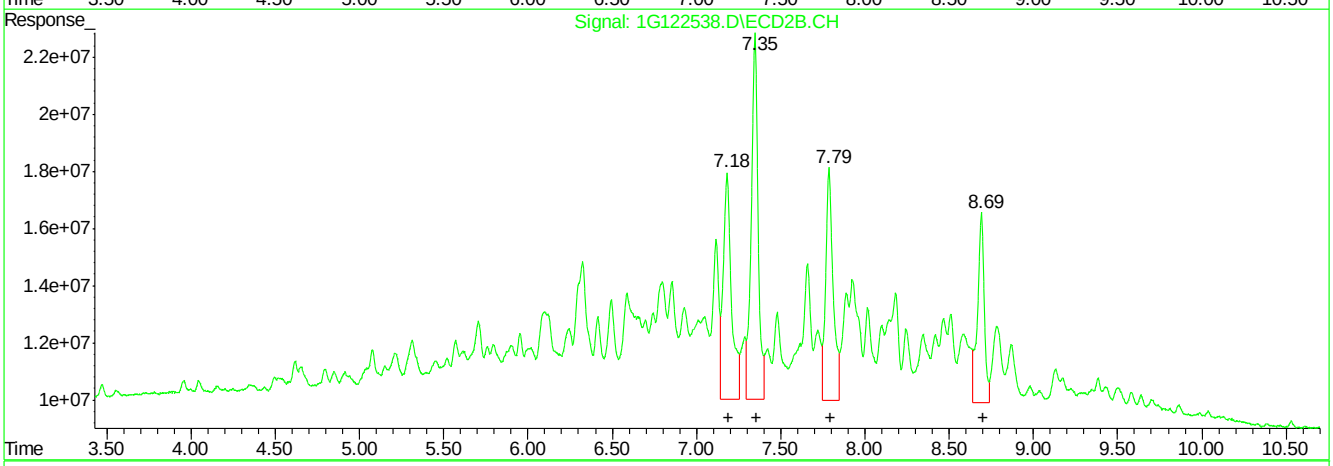
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-B		1	5.42	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD2B.CH
Acq On    : 4-27-16 03:30:28 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:53 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 15:00:31 2016
Response via : Multiple Level Calibration
```





QEdit

(27) Toxaphene{B} (L8)

R.T.	Response	Conc
5.42	24768256	388.01
5.60	24227930	488.35
5.93	23620314	498.85
6.56	22586431	500.62

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
7.18	271960748	562.20
7.35	360249392	495.08
7.79	254273927	578.77
8.69	182272513	567.21

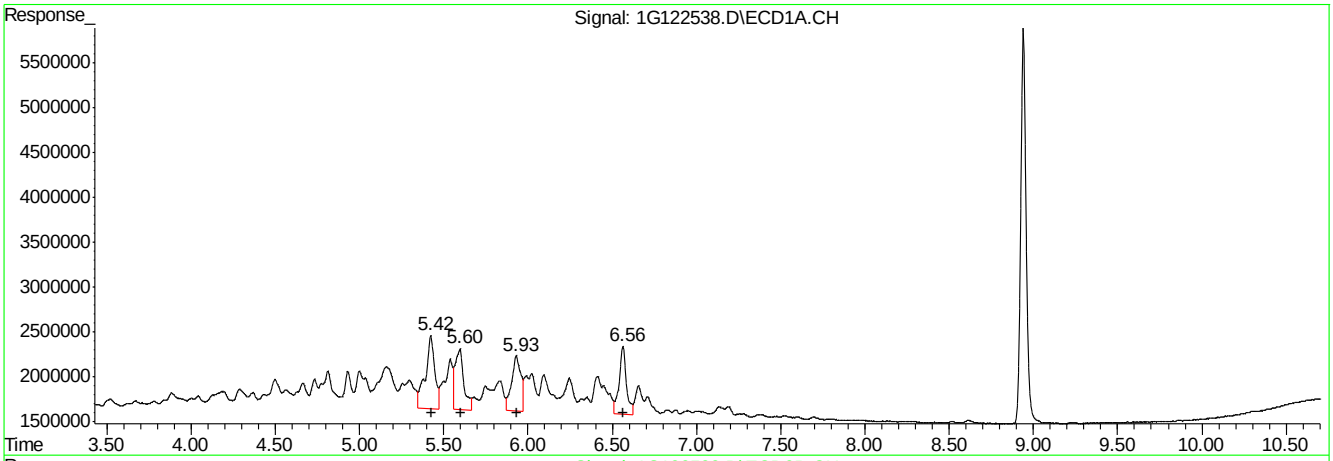
(+) = Expected Retention Time

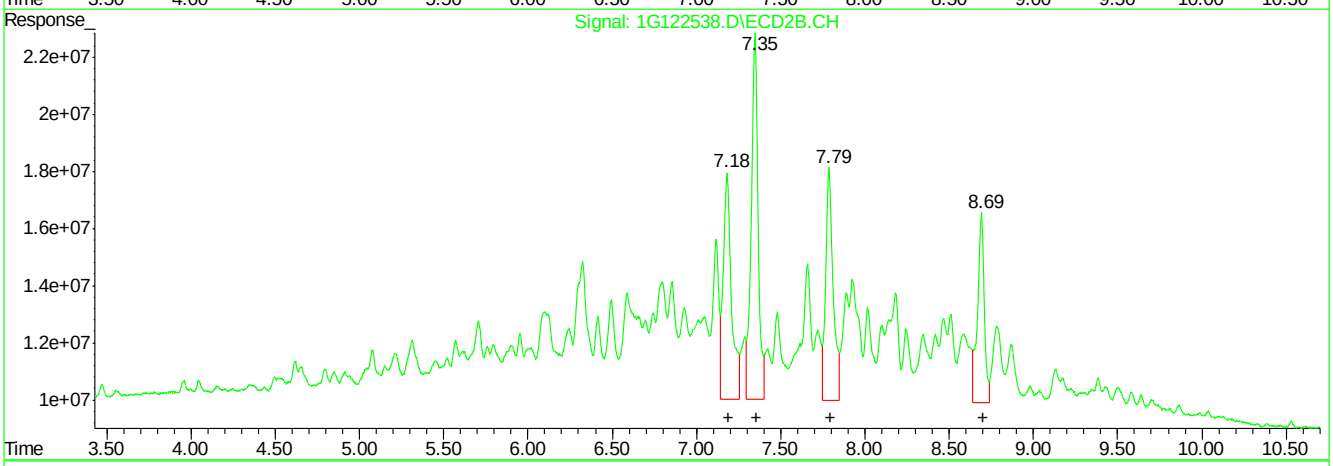
1G122538.D 1PST3973.M Wed Apr 27 15:54:26 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD2B.CH
Acq On    : 4-27-16 03:30:28 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:53 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 15:00:31 2016
Response via : Multiple Level Calibration
```





QEdit

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
5.42	31951412	500.54
5.60	24227930	488.35
5.93	23620314	498.85
6.56	22586431	500.62

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
7.18	271960748	562.20
7.35	360249392	495.08
7.79	254273927	578.77
8.69	182272513	567.21

(+) = Expected Retention Time

1G122538.D 1PST3973.M Wed Apr 27 15:55:34 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/03/16 12:39

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122658.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122658.D\ECD2B.CH
Acq On : 5-2-16 03:24:24 PM Operator: dharas
Sample : cc3973-50 Inst : GC1G
Misc : op93517,g1g3977,15.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 2 15:44 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.16	1.53	81199555	1017.3E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.16	1.53	81199555	1017.3E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.16	1.53	81199555	1017.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.74	2.37	84004562	838.9E6	49.373	45.594
Spiked Amount	40.000 Range	30 - 150	Recovery	=		123.43%	113.99%
24) SA	Decachlorobiphen	8.93	10.86	112.9E6	525.1E6	37.596	48.922
Spiked Amount	40.000		Recovery	=		93.99%	122.30%
	Target Compounds						
3) A	alpha-BHC	2.21	3.04	128.4E6	1293.7E6	61.484m	46.408
4) MA	gamma-BHC	2.50	3.47	116.1E6	1107.2E6	57.380	44.667
5) MA	Heptachlor	2.97	4.04	125.5E6	1076.5E6	56.688	49.335
6) B	beta-BHC	2.58	3.56	51279962	460.6E6	51.483	43.906
7) B	delta-BHC	2.76	3.95	106.7E6	1048.1E6	62.221	45.345
8) MB	Aldrin	3.29	4.49	120.2E6	1025.4E6	55.896	44.284
9) B	Heptachlor Epoxi	3.99	5.31	110.4E6	898.6E6	51.173	43.971
10) B	gamma-Chlordane	4.14	5.60	108.3E6	904.6E6	49.574	44.900
11) B	alpha-Chlordane	4.31	5.82	108.2E6	863.4E6	49.281	43.914
12) A	Endosulfan I	4.48	5.92	116.4E6	834.9E6	49.615	42.874
13) B	4,4'-DDE	4.43	6.09	98224115	872.1E6	55.397	44.780
14) MA	Dieldrin	4.79	6.35	115.5E6	916.5E6	54.241	44.430
15) MA	Endrin	5.11	6.86	109.4E6	830.8E6	55.951	45.515
16) A	4,4'-DDD	5.26	7.05	82280653	735.1E6	55.062	43.214
17) B	Endosulfan II	5.43	7.21	102.4E6	788.9E6	51.990	43.597
18) MA	4,4'-DDT	5.65	7.58	85565699	596.0E6	61.206	54.489
19) B	Endrin Aldehyde	6.05	7.78	78531405	588.8E6	47.836	45.229
20) B	Endosulfan Sulfa	6.73	8.25	91895708	670.0E6	50.276	45.598
21) A	Methoxychlor	6.44	8.83	46009650	306.1E6	48.606	49.443
22)	Mirex	6.53	9.14	90136828	531.6E6	39.218	45.097
23) B	Endrin Ketone	7.15	9.22	103.5E6	698.3E6	57.040	51.299

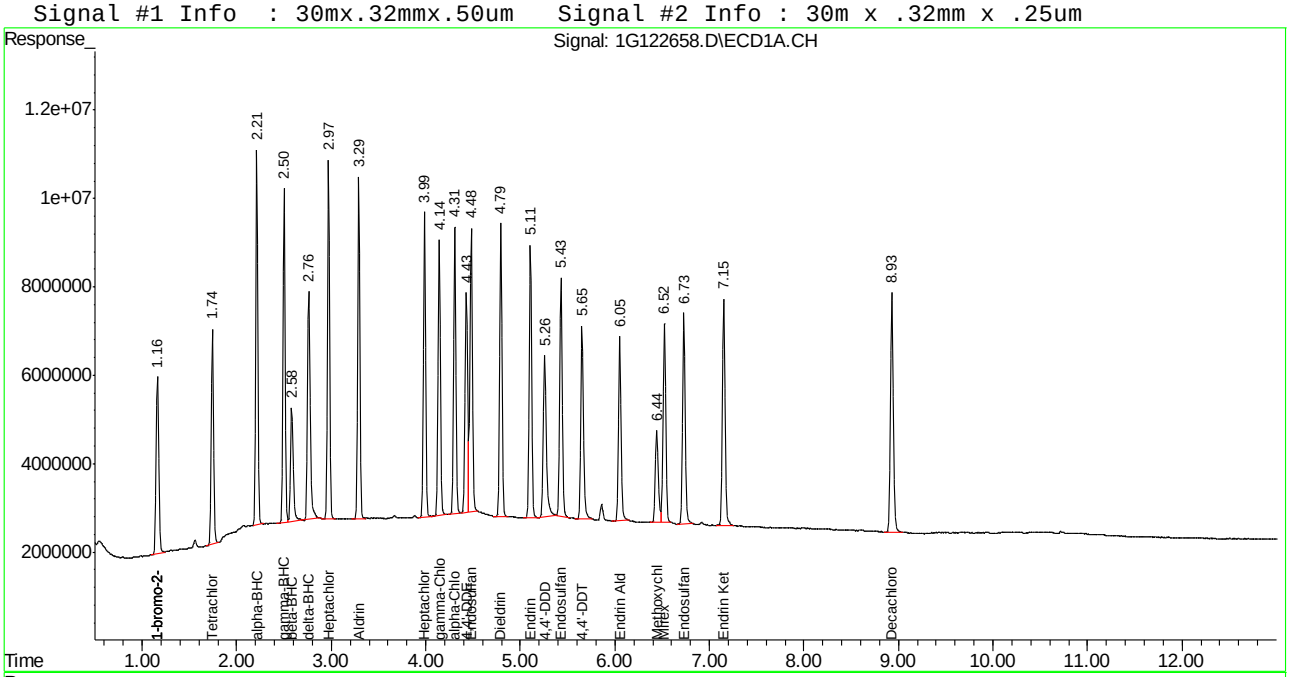
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122658.D 1PST3973.M Mon May 02 15:44:57 2016 RPT1 Page 1

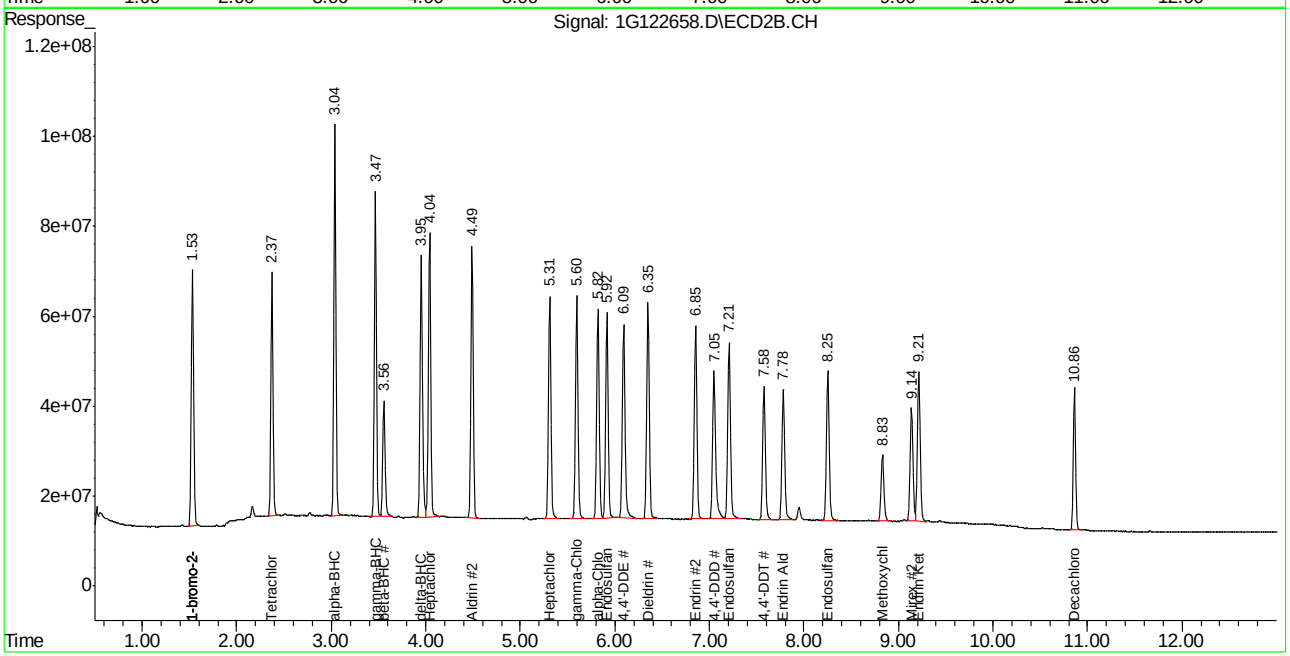
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122658.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122658.D\ECD2B.CH
Acq On : 5-2-16 03:24:24 PM Operator: dharas
Sample : cc3973-50 Inst : GC1G
Misc : op93517,g1g3977,15.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 2 15:44 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS 1193 of 1428 ACCUTEST JC19423

Manual Integration Approval Summary

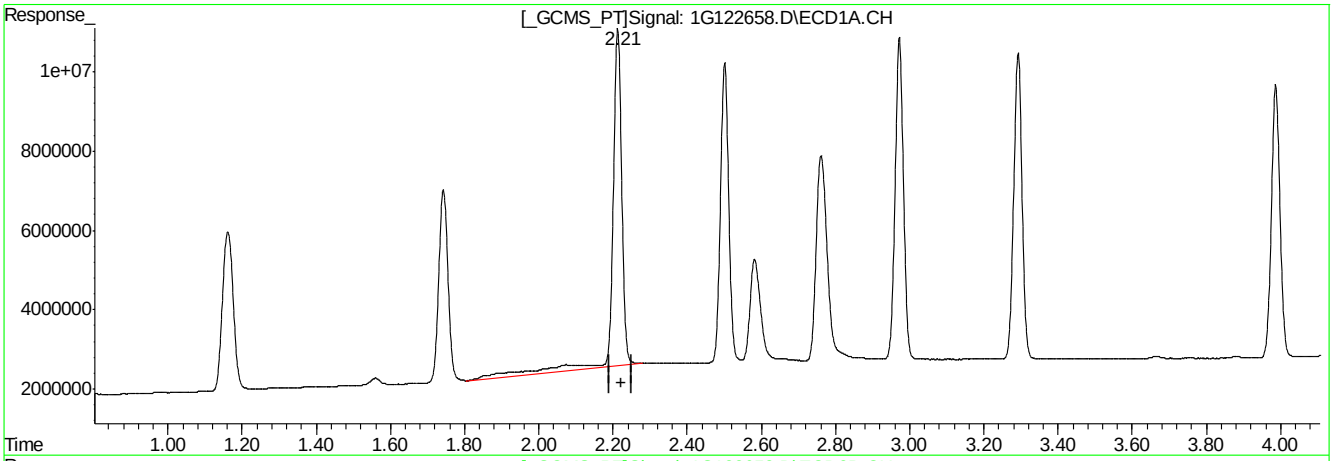
Sample Number:	G1G3977-CC3973	**Method:**	SW846 8081B
Lab FileID:	1G122658.D	**Analyst approved:**	05/03/16 11:44 Dhara Saparia
Injection Time:	05/02/16 15:24	**Supervisor approved:**	05/03/16 12:39 Gwendolyn Burns

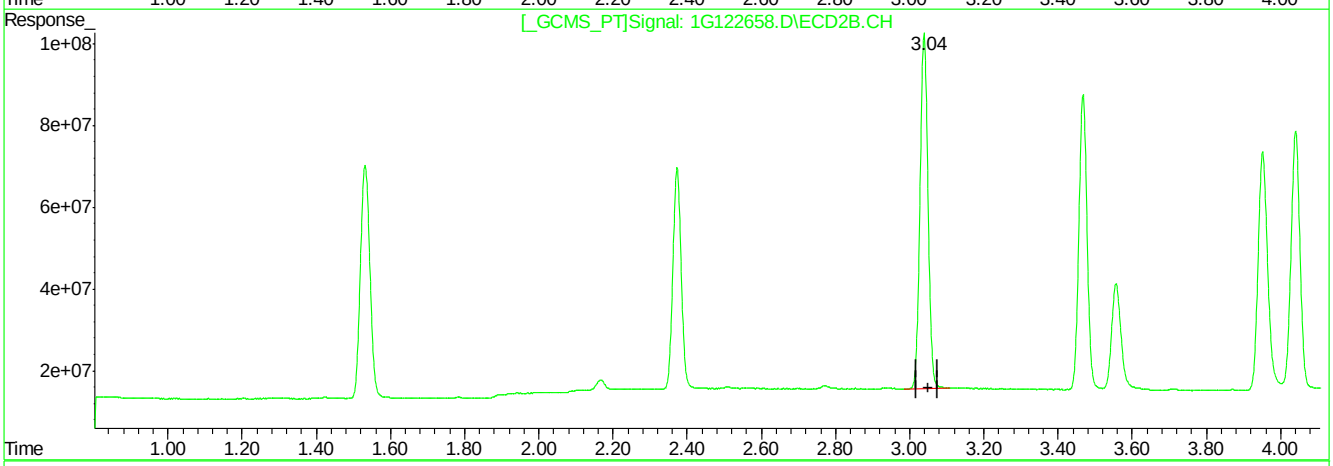
Parameter	CAS	Sig#	R.T. (min.)	Reason
alpha-BHC	319-84-6	1	2.21	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122658.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122658.D\ECD2B.CH
Acq On    : 5-2-16 03:24:24 PM                        Operator: dharas
Sample    : cc3973-50                                 Inst    : GC1G
Misc      : op93517,g1g3977,15.1,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  2 15:43 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(3) alpha-BHC (A)

2.21min 71.959PPB

response 150286424

(3) alpha-BHC #2 (A)

3.04min 46.408PPB

response 1293730692

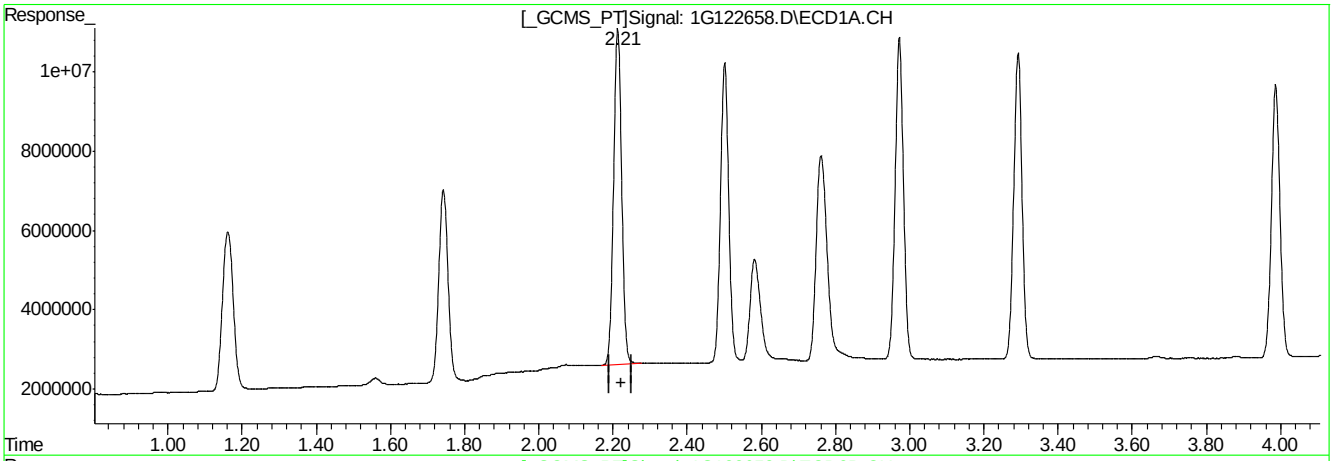
(+) = Expected Retention Time

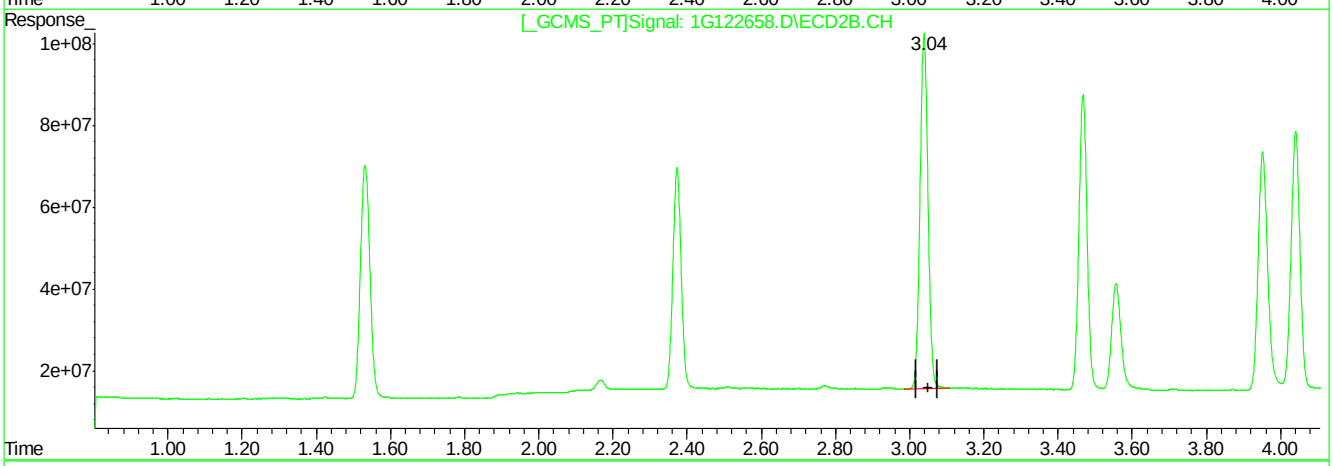
1G122658.D 1PST3973.M Mon May 02 15:44:18 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3977\1G122658.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3977\1G122658.D\ECD2B.CH
Acq On    : 5-2-16 03:24:24 PM                        Operator: dharas
Sample    : cc3973-50                                 Inst    : GC1G
Misc      : op93517,g1g3977,15.1,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  2 15:43 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(3) alpha-BHC (A)

2.21min 61.484PPB m

response 128409449

(3) alpha-BHC #2 (A)

3.04min 46.408PPB

response 1293730692

(+) = Expected Retention Time

1G122658.D 1PST3973.M Mon May 02 15:44:26 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/03/16 13:55

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3978\1G122689.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G3978\1G122689.D\ECD2B.CH
Acq On : 03 May 2016 10:29 am Operator: dharas
Sample : cc3973-25 Inst : GC1G
Misc : op93501,g1g3978,100,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 10:44 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.16	1.53	78928295	983.0E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.16	1.53	78928295	983.0E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.16	1.53	78928295	983.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.74	2.37	40730942	400.7E6	24.628	22.536
Spiked Amount	40.000 Range	30 - 150	Recovery	=		61.57%	56.34%
24) SA	Decachlorobiphen	8.93	10.86	58430074	277.5E6	20.009	26.762
Spiked Amount	40.000		Recovery	=		50.02%	66.91%
	Target Compounds						
3) A	alpha-BHC	2.21	3.04	59231483	612.7E6	29.177m	22.746
4) MA	gamma-BHC	2.50	3.47	55460663	541.4E6	28.197	22.601
5) MA	Heptachlor	2.97	4.04	60823805	522.5E6	28.268	24.784
6) B	beta-BHC	2.58	3.56	24921759	233.0E6	25.741	22.990
7) B	delta-BHC	2.76	3.95	52557305	517.3E6	31.523	23.160
8) MB	Aldrin	3.29	4.49	58049843	516.0E6	27.770	23.065
9) B	Heptachlor Epoxi	3.99	5.31	53167832	459.7E6	25.362	23.278
10) B	gamma-Chlordane	4.14	5.60	54582696	456.0E6	25.698	23.424
11) B	alpha-Chlordane	4.31	5.82	54836581	434.4E6	25.688	22.866
12) A	Endosulfan I	4.48	5.92	56420940	428.5E6	24.745	22.769
13) B	4,4'-DDE	4.43	6.09	50261964	439.3E6	29.163	23.345
14) MA	Dieldrin	4.80	6.35	56786153	467.3E6	27.439	23.445
15) MA	Endrin	5.11	6.86	53565714	420.2E6	28.189	23.824
16) A	4,4'-DDD	5.26	7.05	41886840	384.0E6	28.837	23.358
17) B	Endosulfan II	5.43	7.21	50784584	398.3E6	26.536	22.780
18) MA	4,4'-DDT	5.65	7.58	41475948	291.2E6	30.522	27.553
19) B	Endrin Aldehyde	6.05	7.78	39960297	307.1E6	25.041	24.417
20) B	Endosulfan Sulfa	6.73	8.25	45728458	336.3E6	25.738	23.684
21) A	Methoxychlor	6.44	8.83	23831180	144.1E6	25.900	24.086
22)	Mirex	6.53	9.14	45829657	276.0E6	20.514	24.230
23) B	Endrin Ketone	7.15	9.22	49836503	350.1E6	28.269	26.621

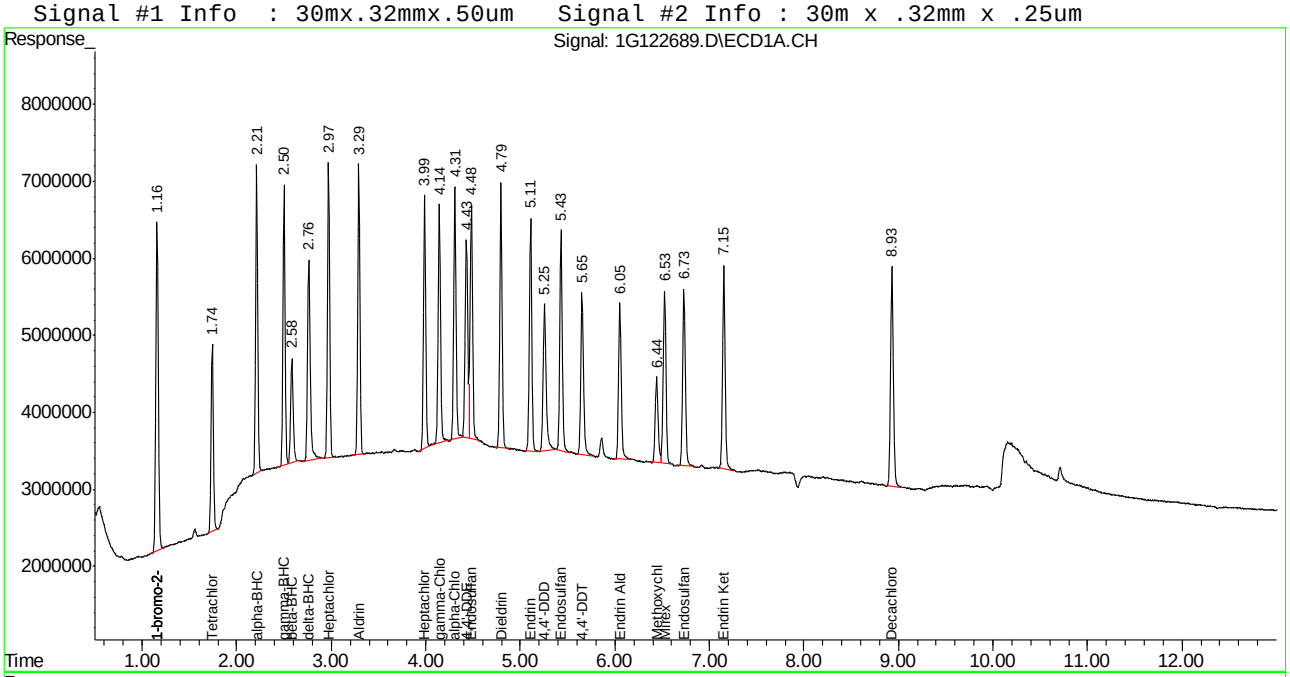
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122689.D 1PST3973.M Tue May 03 12:52:37 2016 RPT1 Page 1

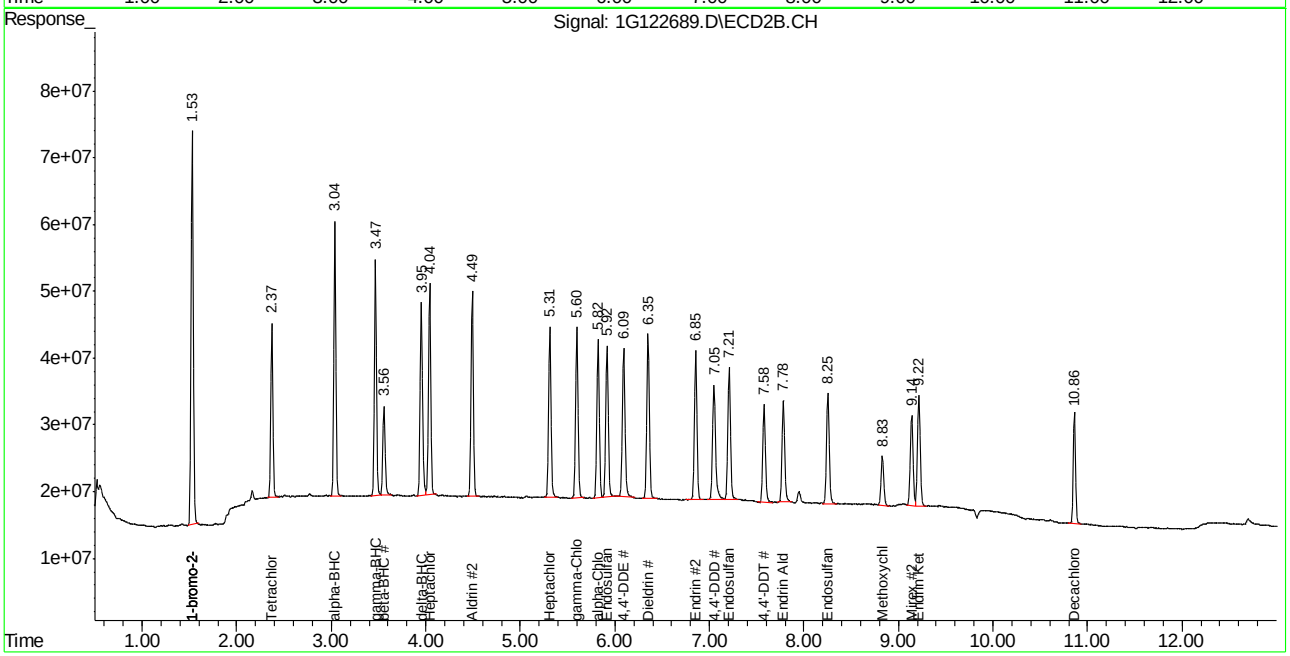
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3978\1G122689.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G3978\1G122689.D\ECD2B.CH
Acq On : 03 May 2016 10:29 am Operator: dharas
Sample : cc3973-25 Inst : GC1G
Misc : op93501,g1g3978,100,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 10:44 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

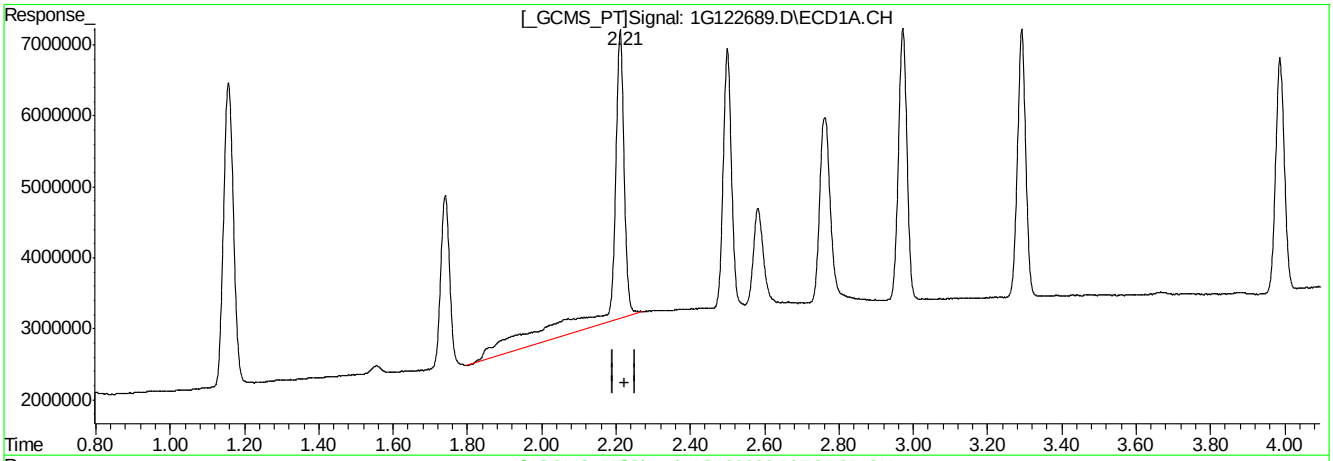
Sample Number:	G1G3978-CC3973	**Method:**	SW846 8081B
Lab FileID:	1G122689.D	**Analyst approved:**	05/03/16 13:29 Dhara Saparia
Injection Time:	05/03/16 10:29	**Supervisor approved:**	05/03/16 13:55 Gwendolyn Burns

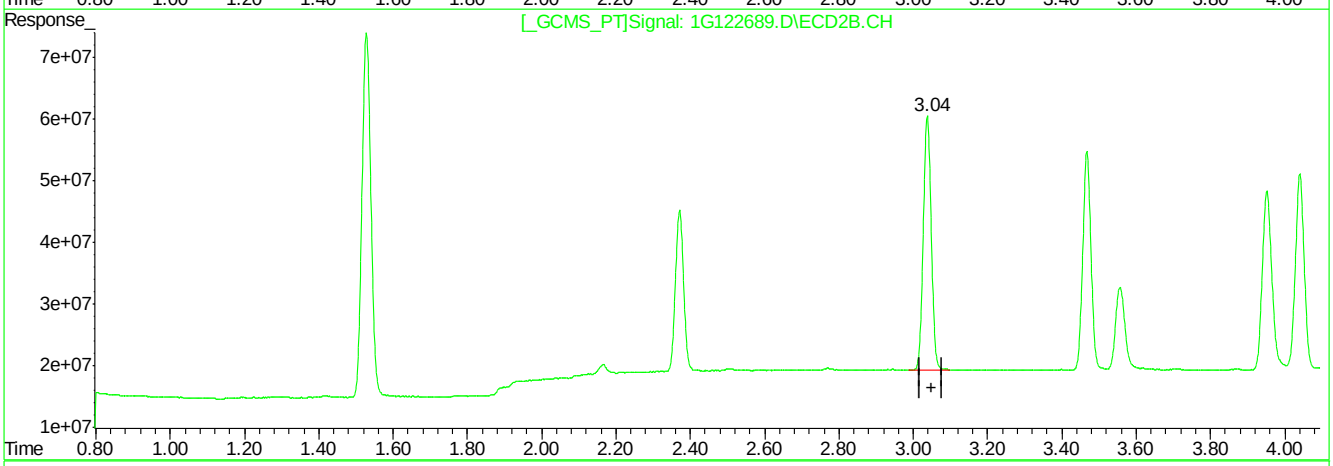
Parameter	CAS	Sig#	R.T. (min.)	Reason
alpha-BHC	319-84-6	1	2.21	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3978\1G122689.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G3978\1G122689.D\ECD2B.CH
Acq On    : 03 May 2016  10:29 am                    Operator: dharas
Sample    : cc3973-25                                Inst    : GC1G
Misc      : op93501,g1g3978,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 10:43 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(3) alpha-BHC (A)

2.21min 48.231PPB

response 97912600

(3) alpha-BHC #2 (A)

3.04min 22.746PPB

response 612698301

(+) = Expected Retention Time

1G122689.D 1PST3973.M Tue May 03 10:44:02 2016 RPT1

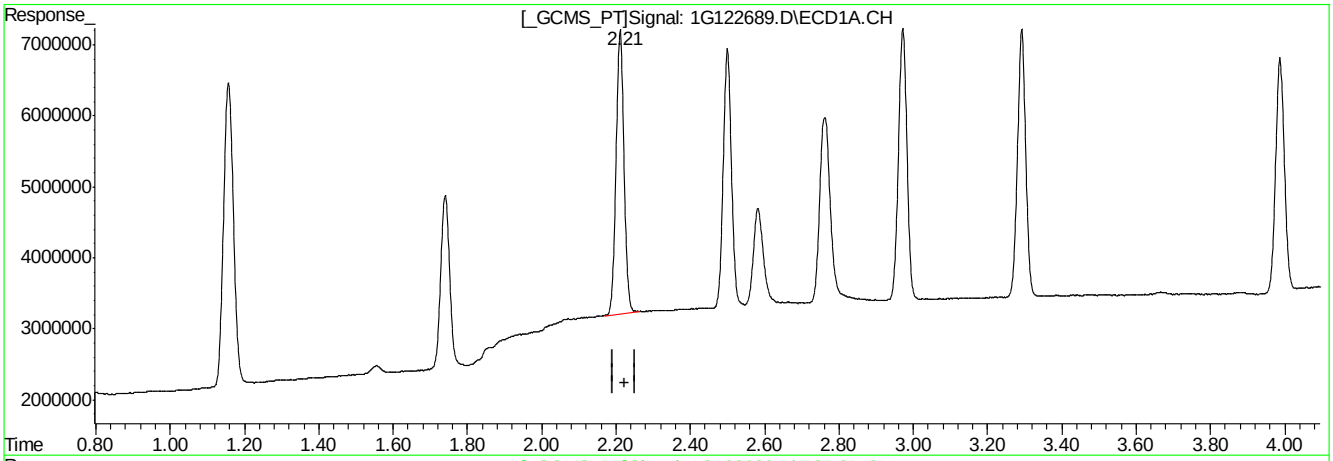
9.6.16.2

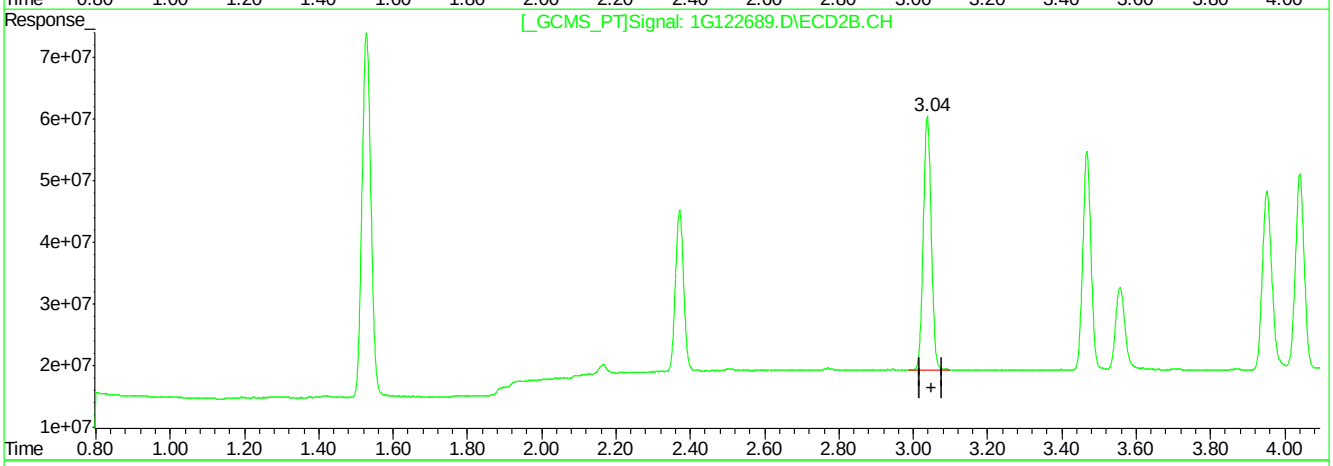
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3978\1G122689.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G3978\1G122689.D\ECD2B.CH
Acq On    : 03 May 2016  10:29 am                    Operator: dharas
Sample    : cc3973-25                                Inst    : GC1G
Misc      : op93501,g1g3978,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May  3 10:43 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(3) alpha-BHC (A)

2.21min 29.177PPB m

response 59231483

(3) alpha-BHC #2 (A)

3.04min 22.746PPB

response 612698301

(+) = Expected Retention Time

1G122689.D 1PST3973.M Tue May 03 10:44:09 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.798	2.074	404.6E6	350.7E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.586	3.109	6962584	6110595	0.922m	0.964	
	Spiked Amount 40.000 Range 30 - 150 Recovery =					2.31%#	2.41%#	
24) SA	Decachlor...	10.251	11.660	6737480	4639115	0.857m	0.824	
	Spiked Amount 40.000 Recovery =					2.14%	2.06%	
	Target Compounds							
3) A	alpha-BHC	3.154	3.871	9435652	9644001	1.001	1.141	
4) MA	gamma-BHC	3.501	4.355	7770516	7902276	0.961	1.030	
5) MA	Heptachlor	3.819	4.979	7052339	8539292	0.812	1.079	#
6) B	beta-BHC	3.610	4.450	3847992	3733076	0.987	1.065	
7) B	delta-BHC	4.063	4.881	7421452	6995438	0.936	0.997	
8) MB	Aldrin	4.438	5.463	7708909	9027664	0.913	1.177	#
9) B	Heptachlo...	5.205	6.326	6953341	8070682	0.945	1.147	
10) B	gamma-Chl...	5.384	6.627	6671076	6909544	0.935m	0.997	
11) B	alpha-Chl...	5.567	6.860	8387247	7793341	1.135	1.133	
12) A	Endosulfan I	5.753	6.966	8617919	6752682	1.072	1.023	
13) B	4,4'-DDE	5.693	7.121	8224968	6954461	1.403	1.061	
14) MA	Dieldrin	6.091	7.414	6900266	7069632	0.925m	1.032	
15) MA	Endrin	6.428	7.935	6964797	6178520	1.002m	1.002	
16) A	4,4'-DDD	6.572	8.094	6042117	5592972	1.098	1.011	
17) B	Endosulfa...	6.769	8.293	5885684	6240514	0.870	1.015	
18) MA	4,4'-DDT	6.998	8.637	2984622	5047828	1.377	1.067	
19) B	Endrin Al...	7.405	8.867	5880255	5075556	1.029	1.030	
20) B	Endosulfa...	8.099	9.341	6211467	5458341	1.068	1.073	
21) A	Methoxychlor	7.807	9.844	2446157	2727859	0.820m	1.017	
22)	Mirex	7.997	10.161	6420057	5072743	1.034	1.092	
23) B	Endrin Ke...	8.563	10.202	6337010	5962417	0.938m	1.092	
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.17

9

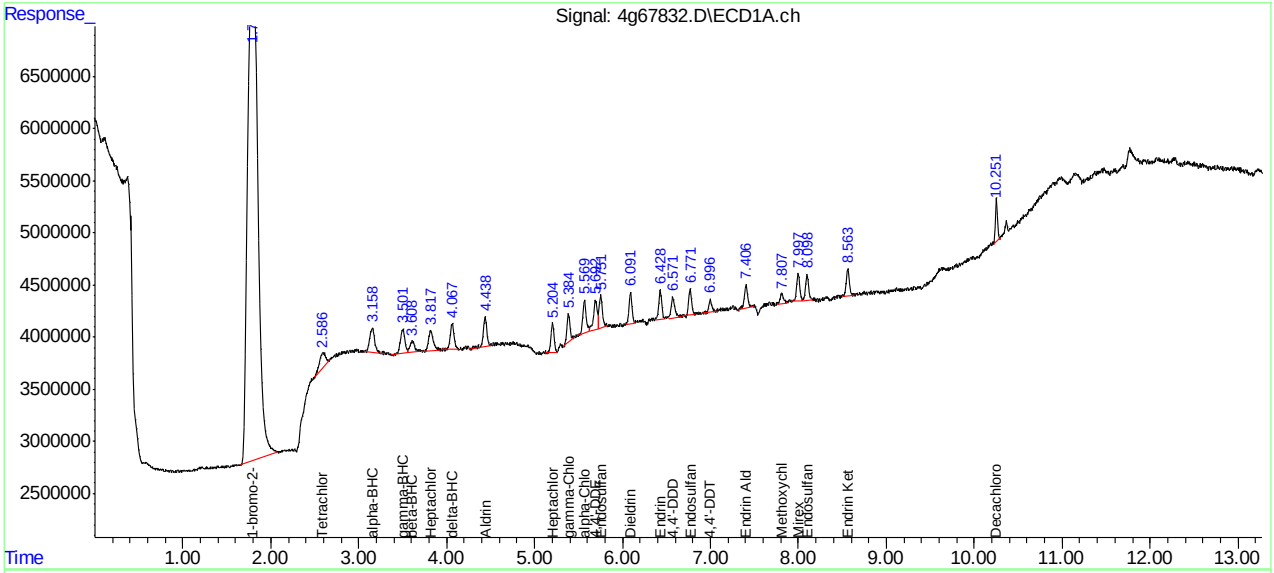
SGS ACCUTEST JC19423

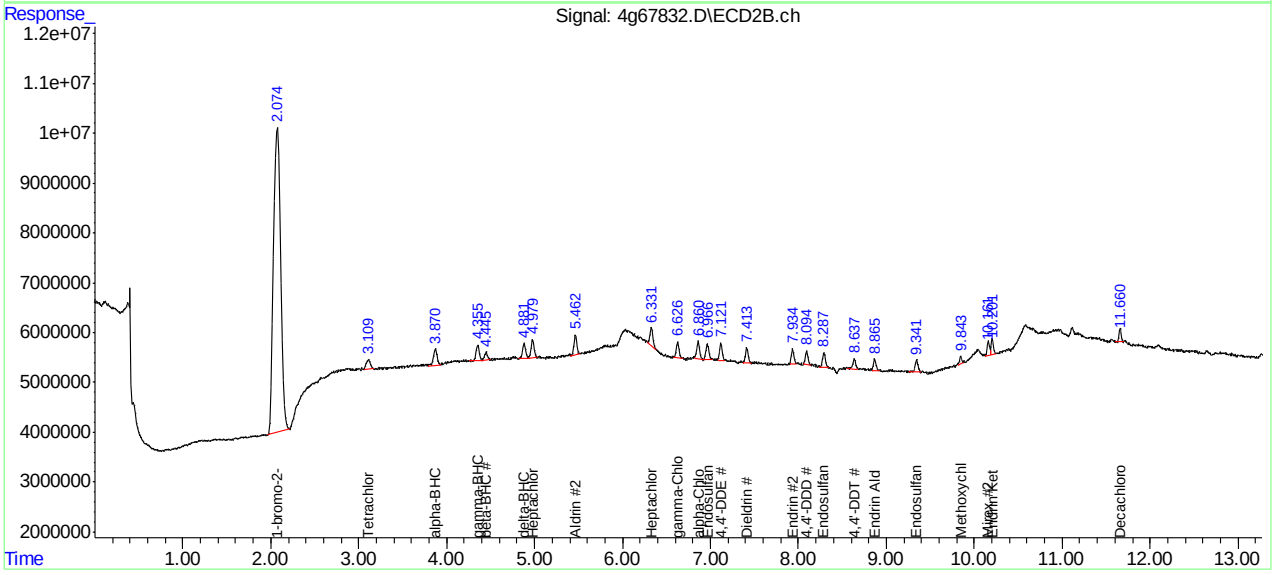
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67832.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 14:26	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

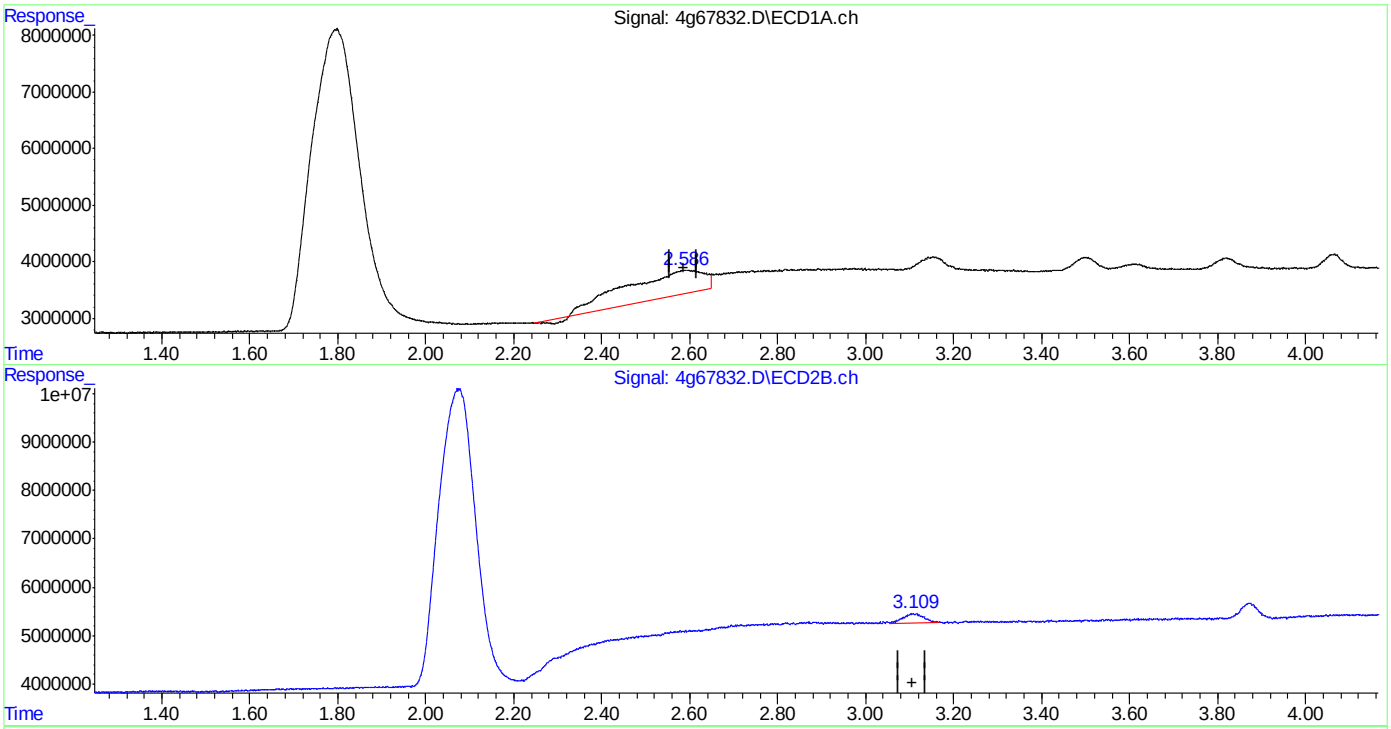
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
gamma-Chlordane	5103-74-2	1	5.38	Poorly defined baseline
Dieldrin	60-57-1	1	6.09	Poorly defined baseline
Endrin	72-20-8	1	6.43	Poorly defined baseline
Methoxychlor	72-43-5	1	7.81	Poorly defined baseline
Endrin ketone	53494-70-5	1	8.56	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   2:26 pm
Operator  : dharas
Sample    : ic1778-1
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(2) Tetrachloro-m-xylene (SAB)

2.587min 7.286 PPB

response 55021137

(2) Tetrachloro-m-xylene #2 (SAB)

3.109min 0.964 PPB

response 6110595

(+) = Expected Retention Time

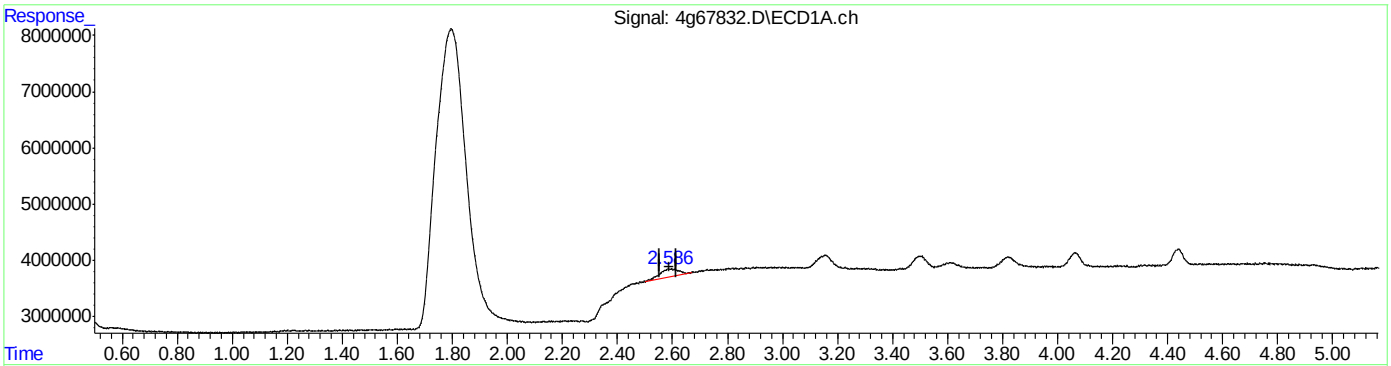
4PST1778.M Tue May 03 15:00:24 2016 RPT1

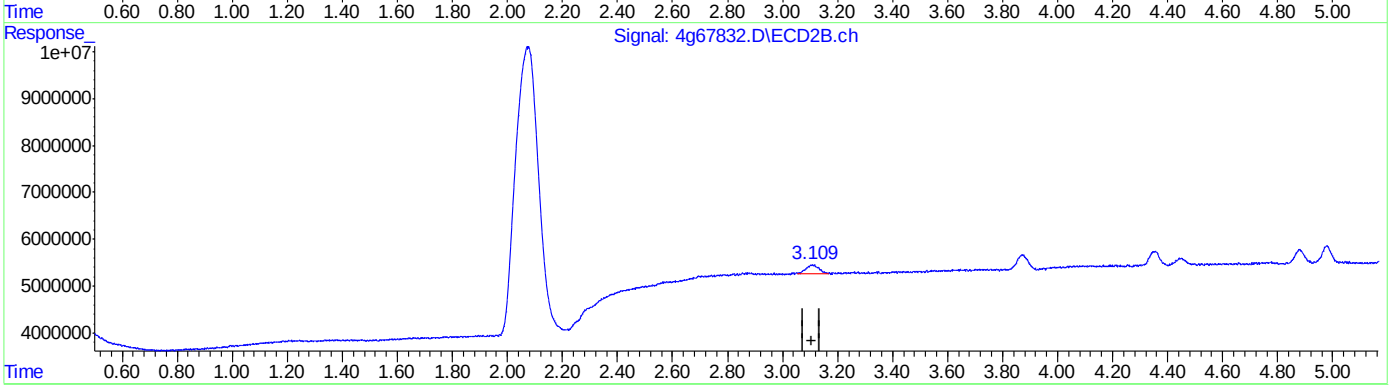
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   2:26 pm
Operator  : dharas
Sample    : ic1778-1
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

2.586min 0.922 PPB m

response 6962584

(2) Tetrachloro-m-xylene #2 (SAB)

3.109min 0.964 PPB

response 6110595

(+) = Expected Retention Time

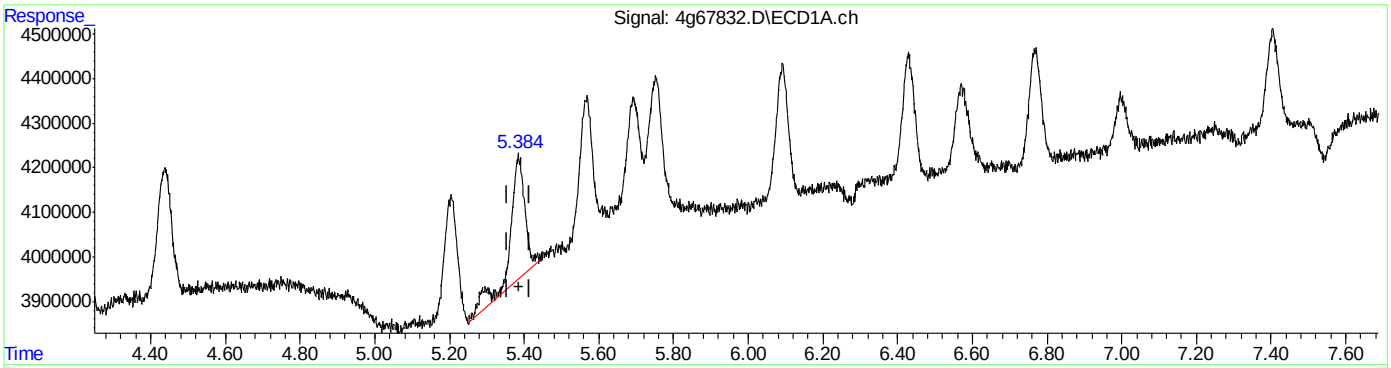
4PST1778.M Tue May 03 15:00:29 2016 RPT1

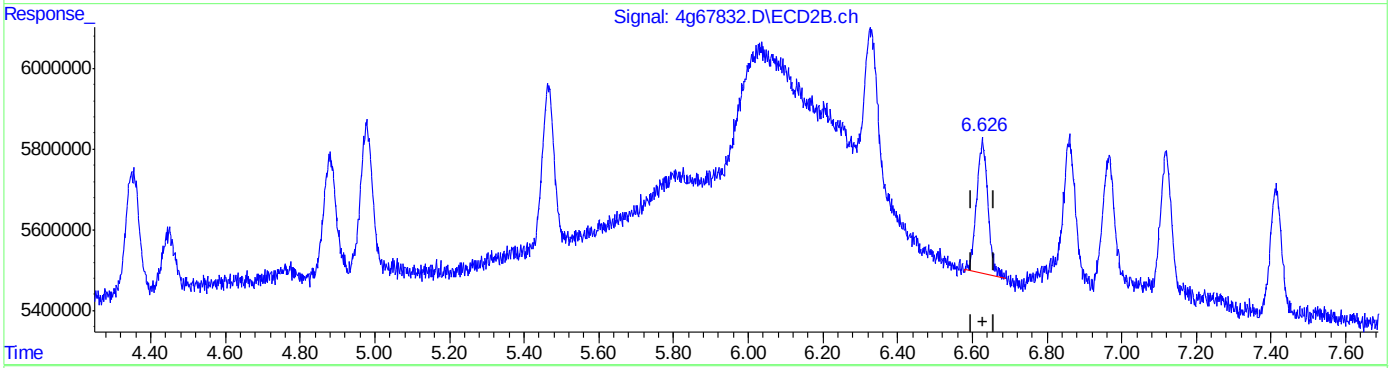
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(10) gamma-Chlordane (B)
5.385min 1.073 PPB
response 7652075

(10) gamma-Chlordane #2 (B)
6.627min 0.997 PPB
response 6909544

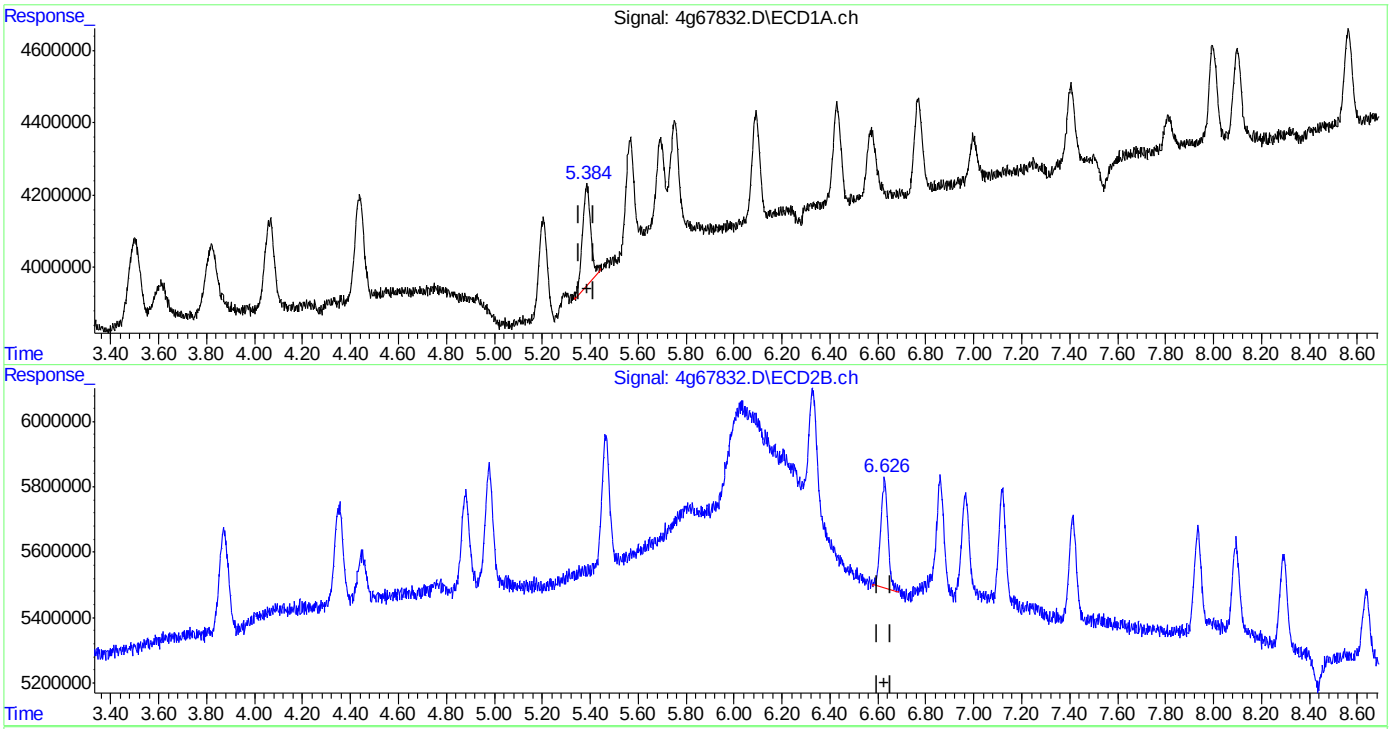
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   2:26 pm
Operator  : dharas
Sample    : ic1778-1
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



(10) gamma-Chlordane (B)

5.384min 0.935 PPB m

response 6671076

(10) gamma-Chlordane #2 (B)

6.627min 0.997 PPB

response 6909544

(+) = Expected Retention Time

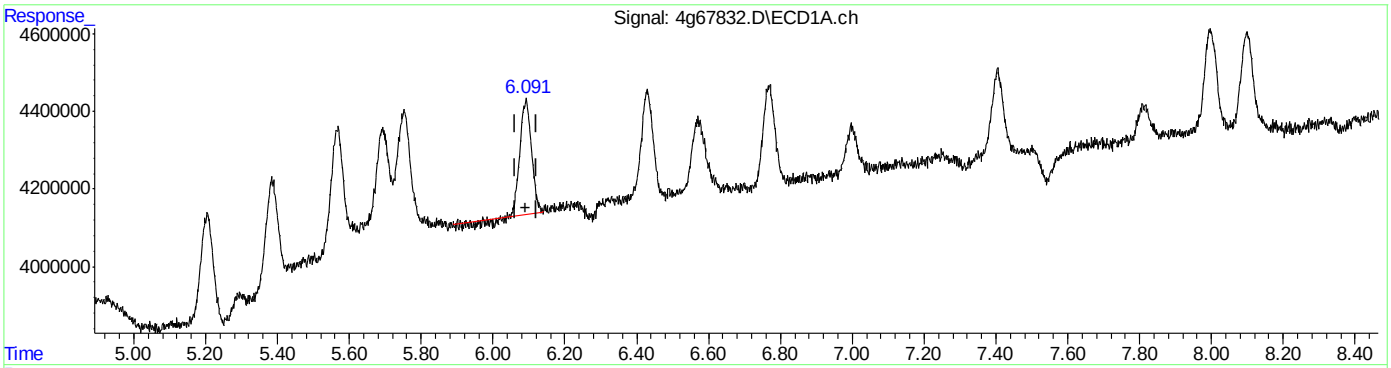
4PST1778.M Tue May 03 15:00:44 2016 RPT1

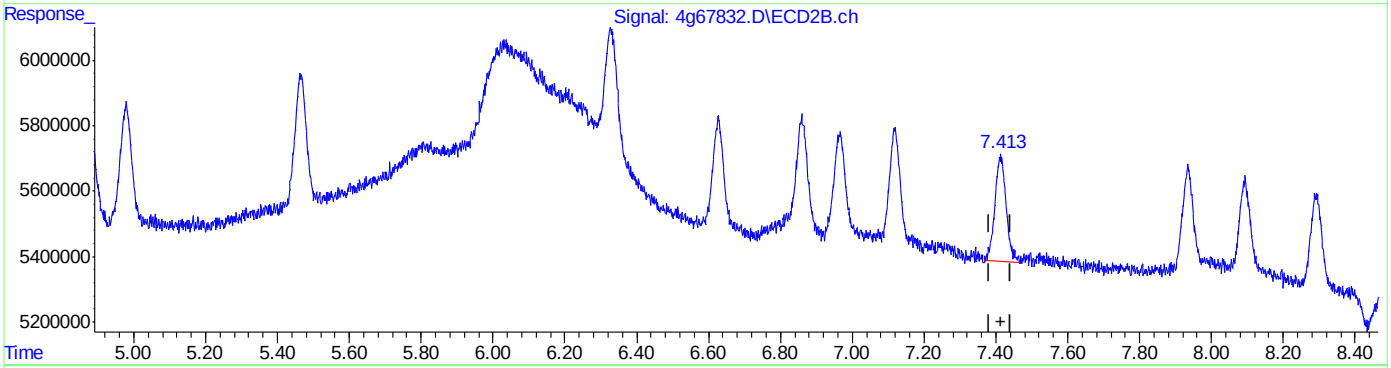
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(14) Dieldrin (MA)
6.092min 0.853 PPB
response 6362395

(14) Dieldrin #2 (MA)
7.414min 1.032 PPB
response 7069632

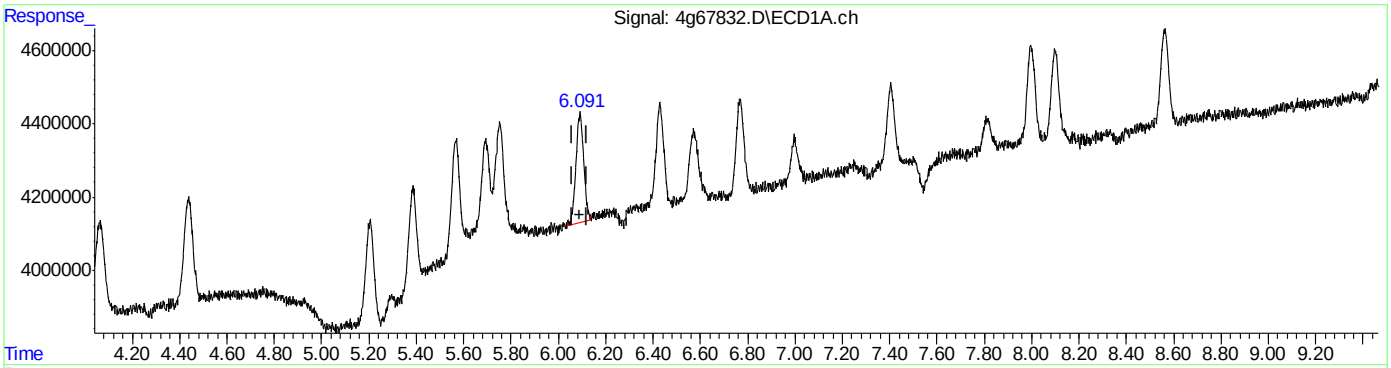
(+) = Expected Retention Time

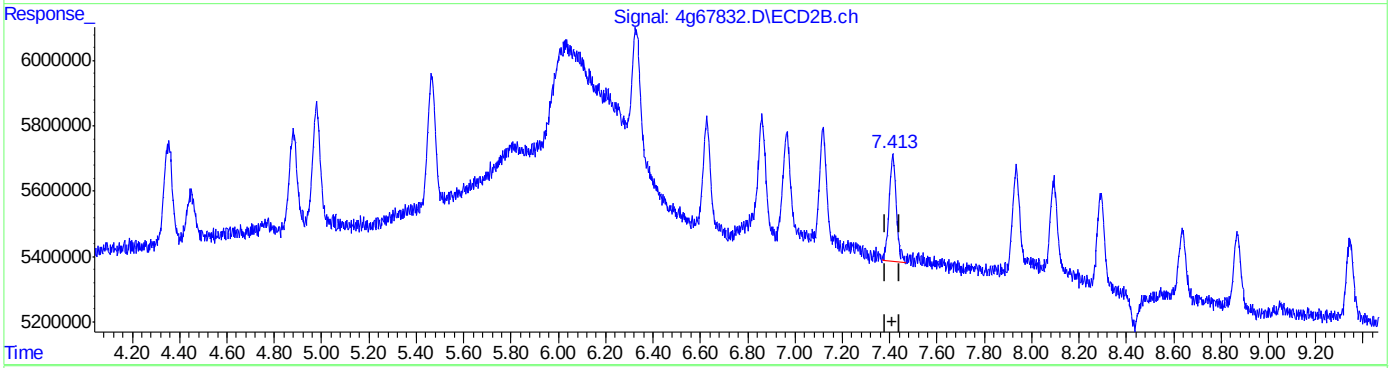
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(14) Dieldrin (MA)
6.091min 0.925 PPB m
response 6900266

(14) Dieldrin #2 (MA)
7.414min 1.032 PPB
response 7069632

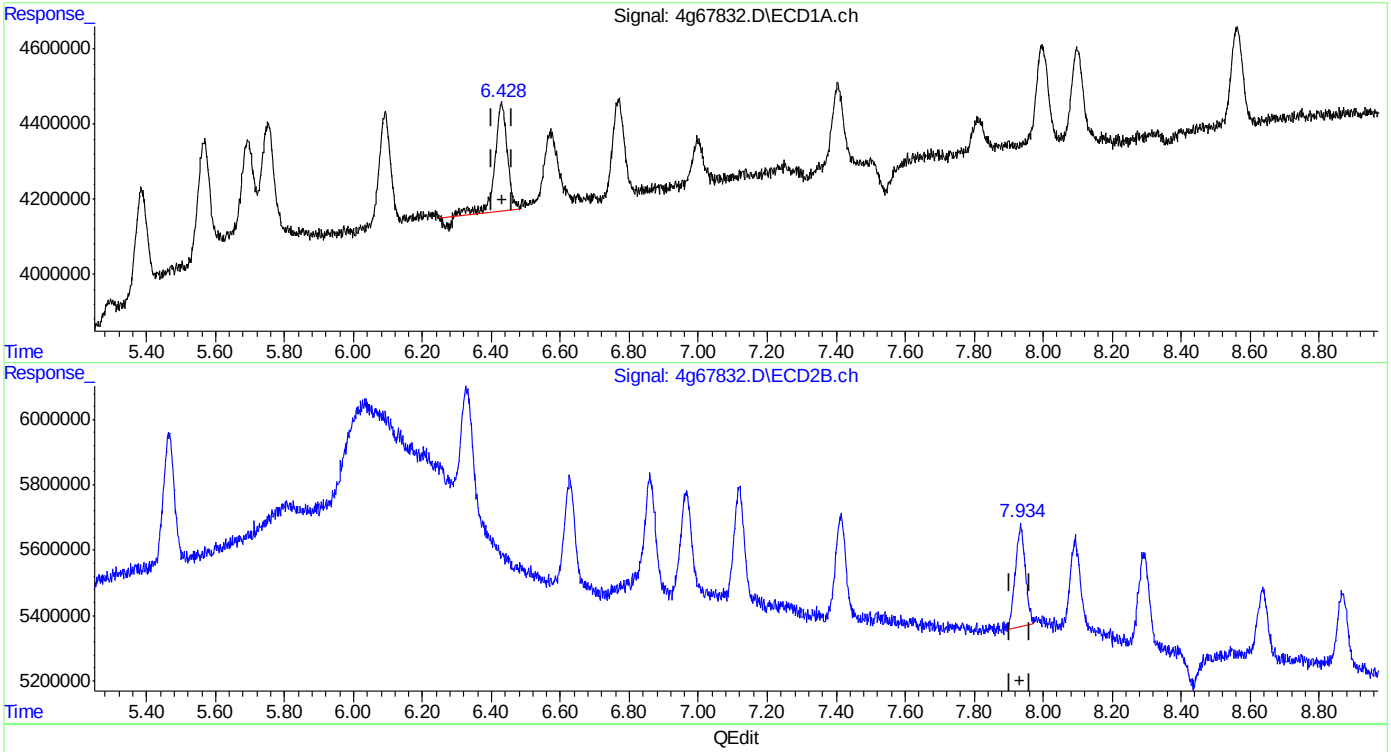
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(15) Endrin (MA)
6.429min 1.047 PPB
response 7280251

(15) Endrin #2 (MA)
7.935min 1.002 PPB
response 6178520

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:01:03 2016 RPT1

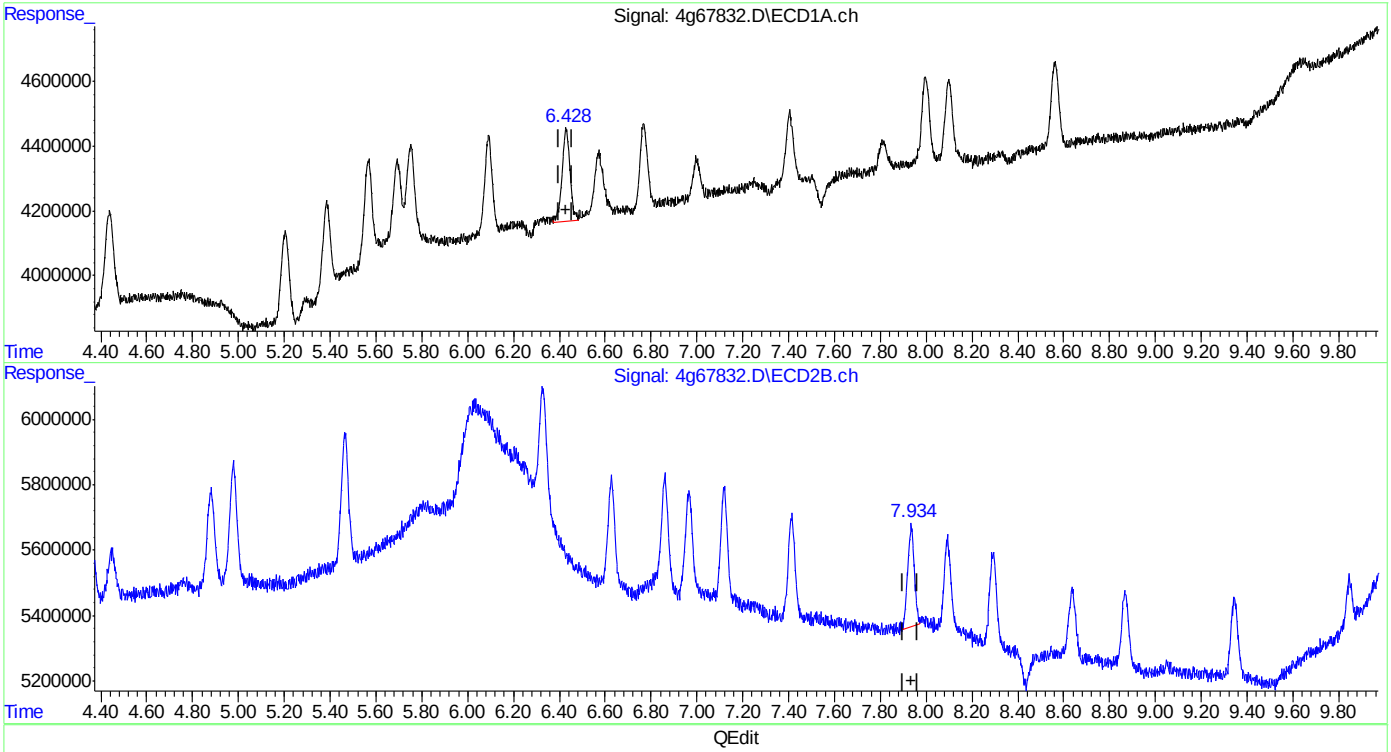
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(15) Endrin (MA)
6.428min 1.002 PPB m
response 6964797

(15) Endrin #2 (MA)
7.935min 1.002 PPB
response 6178520

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:01:08 2016 RPT1

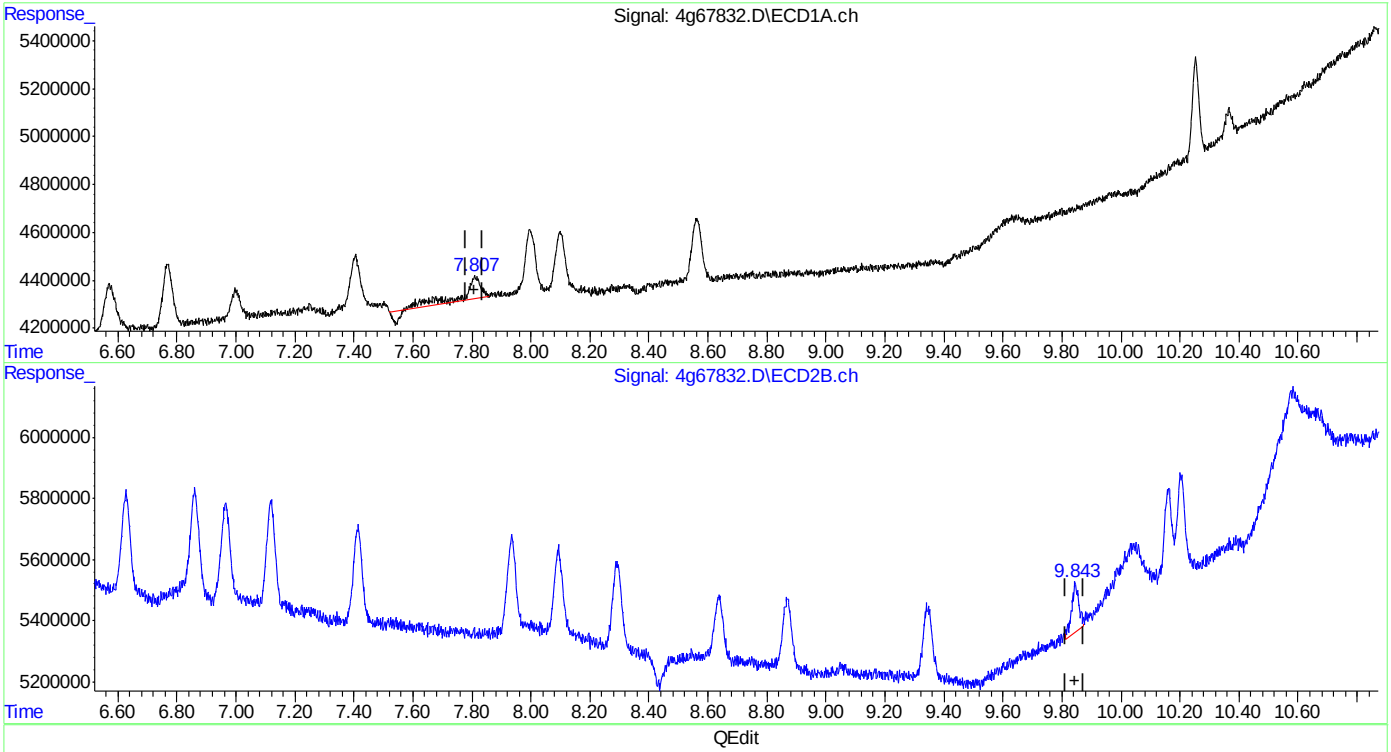
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.811min 1.186 PPB
response 3539759

(21) Methoxychlor #2 (A)
9.844min 1.017 PPB
response 2727859

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:01:16 2016 RPT1

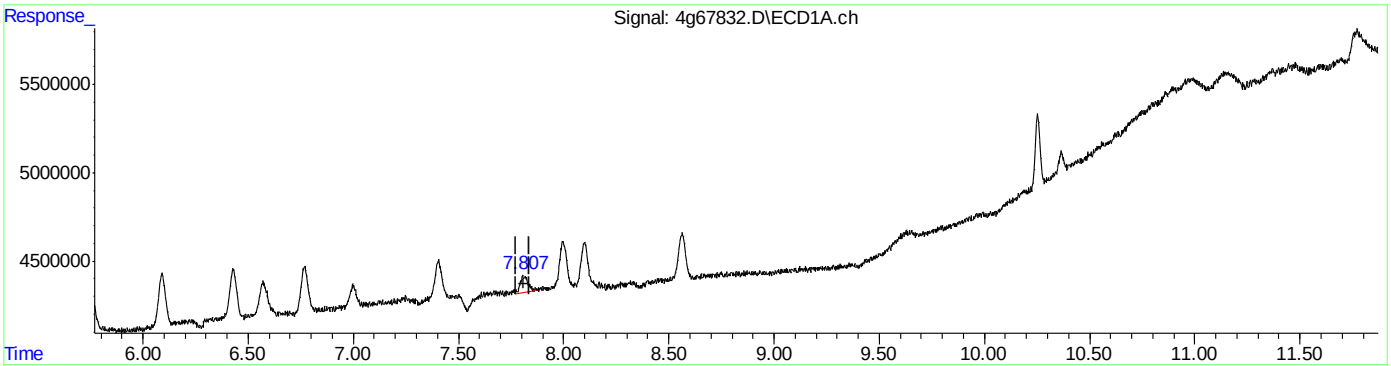
SGS ACCUTEST JC19423

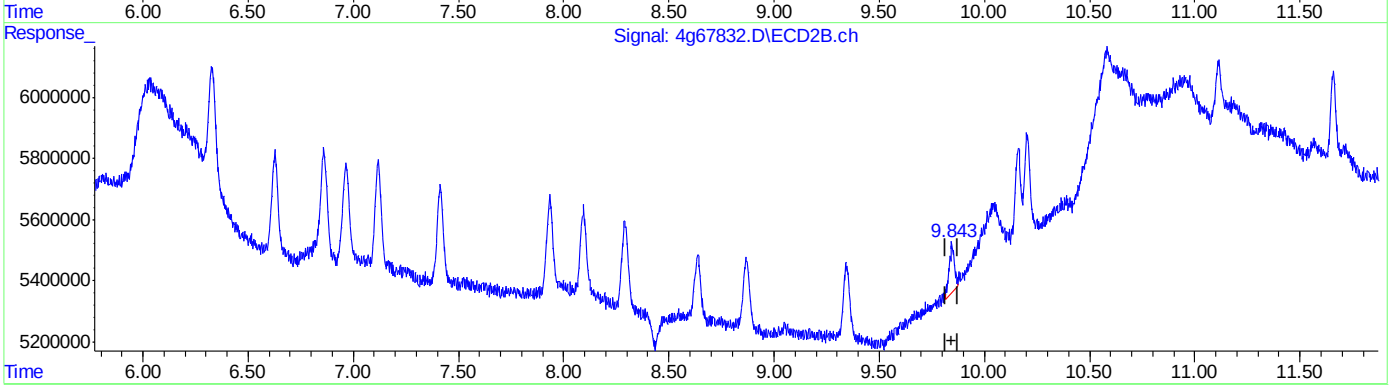
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(21) Methoxychlor (A)
7.807min 0.820 PPB m
response 2446157

(21) Methoxychlor #2 (A)
9.844min 1.017 PPB
response 2727859

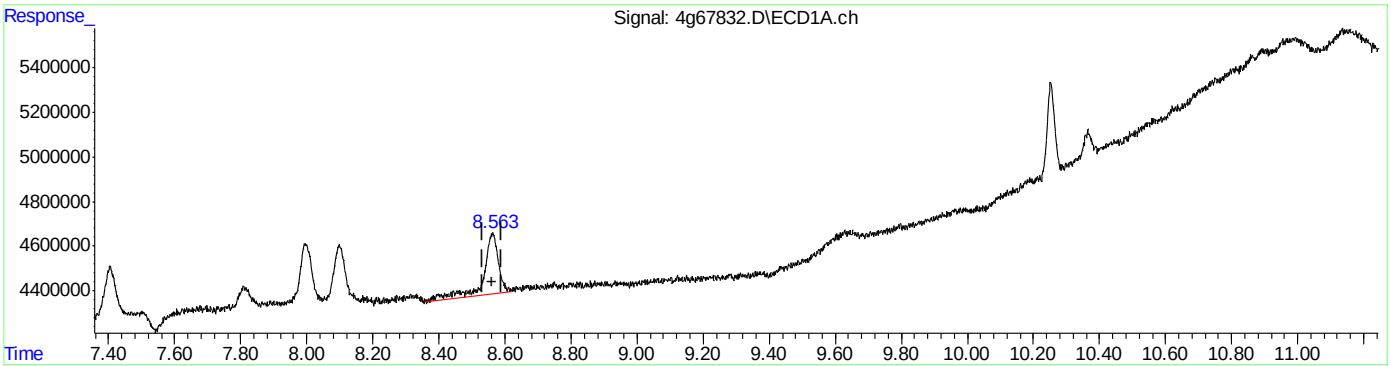
(+) = Expected Retention Time

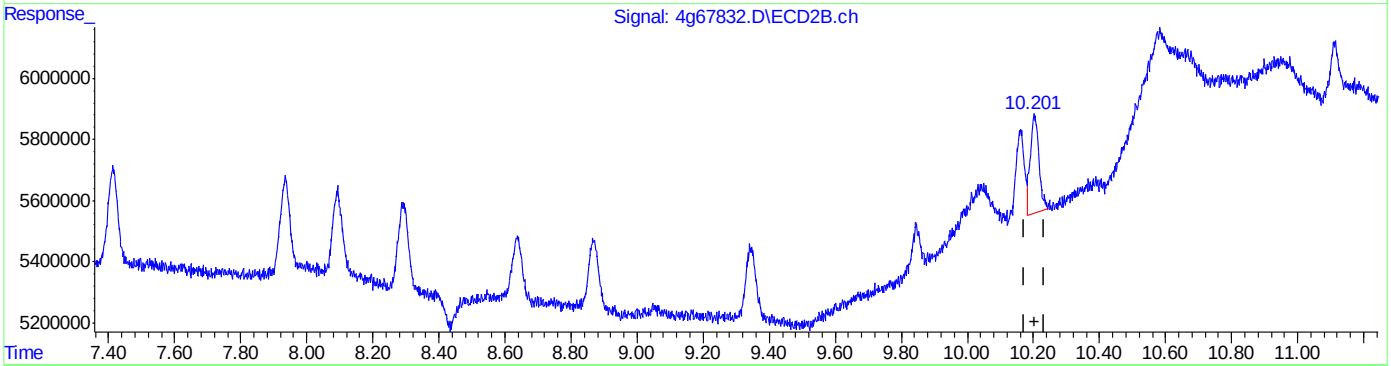
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   2:26 pm
Operator  : dharas
Sample    : ic1778-1
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```





QEdit

(23) Endrin Ketone (B)
8.562min 1.247 PPB
response 8417859

(23) Endrin Ketone #2 (B)
10.202min 1.092 PPB
response 5962417

(+) = Expected Retention Time

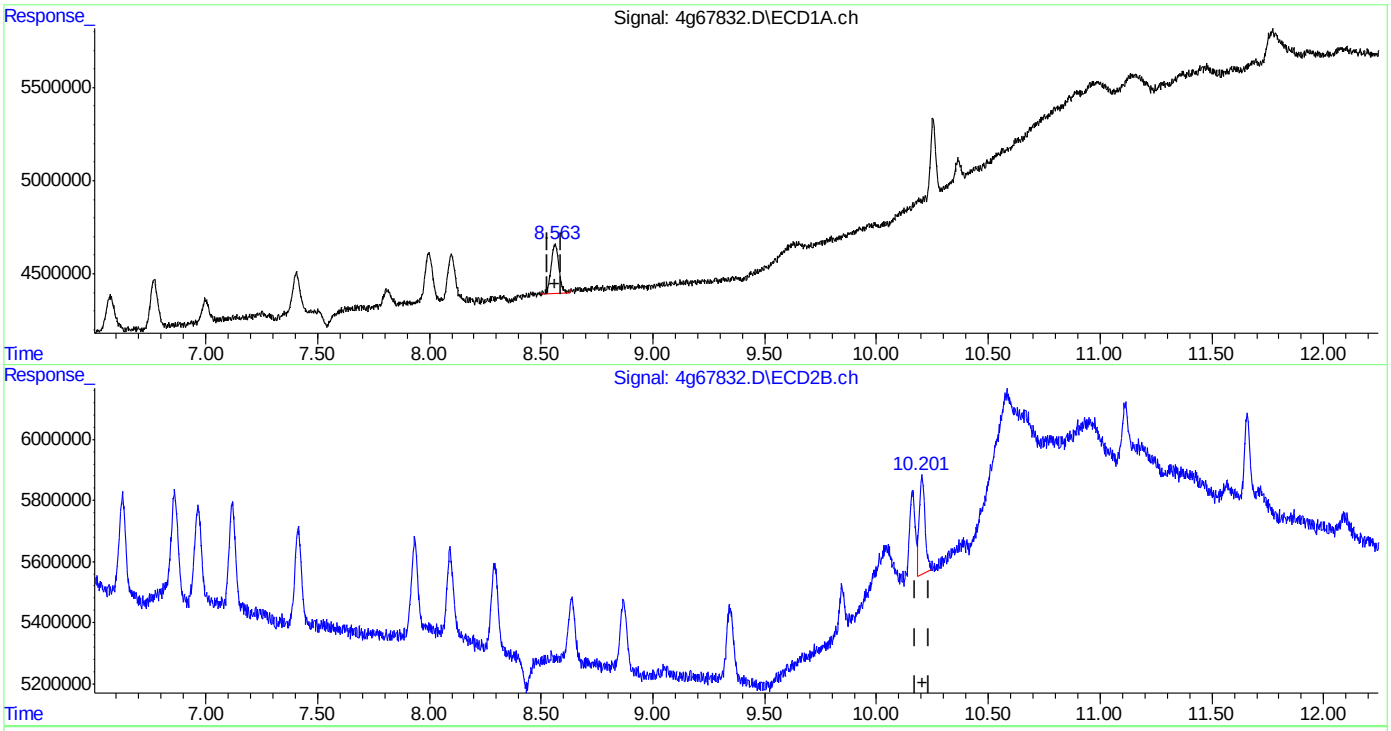
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(23) Endrin Ketone (B)
8.563min 0.938 PPB m
response 6337010

(23) Endrin Ketone #2 (B)
10.202min 1.092 PPB
response 5962417

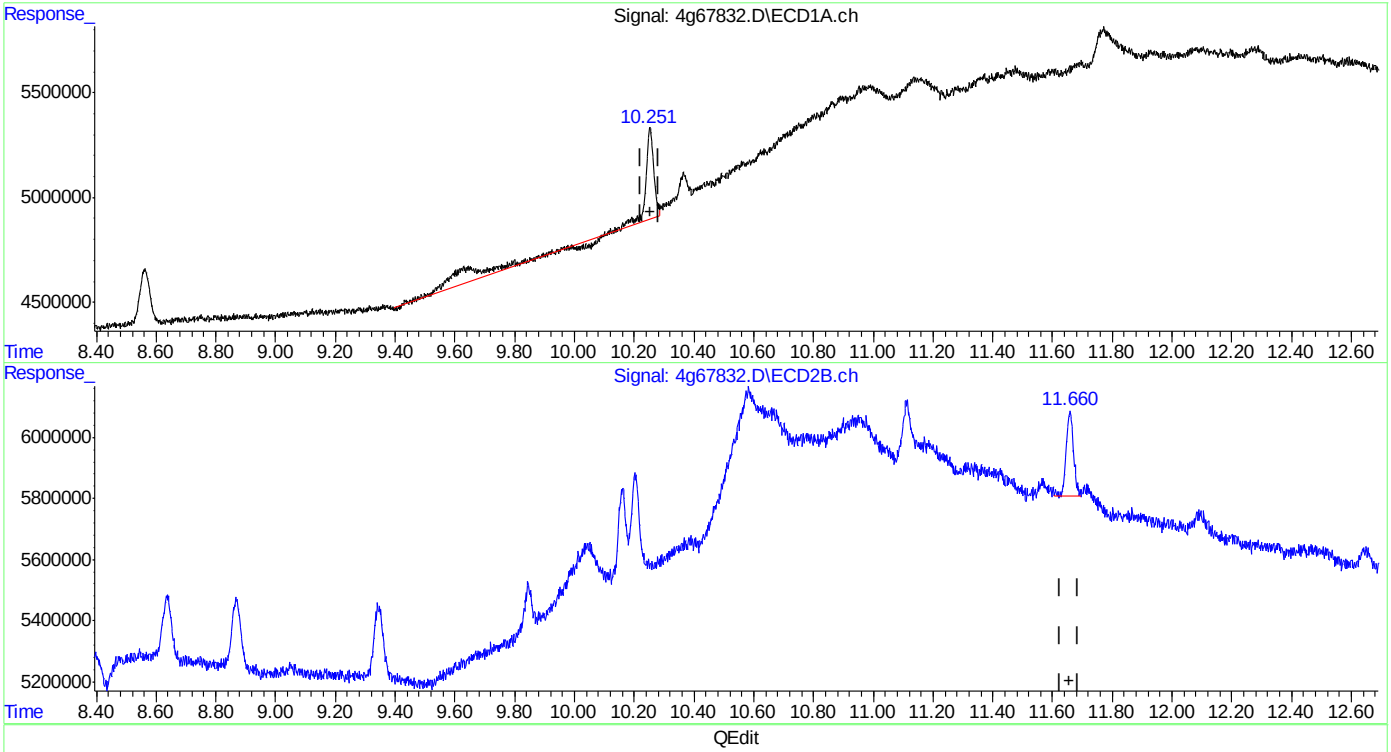
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   2:26 pm
Operator  : dharas
Sample    : ic1778-1
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(24) Decachlorobiphenyl (SA)

10.253min 1.525 PPB

response 11996237

(24) Decachlorobiphenyl #2 (SA)

11.660min 0.824 PPB

response 4639115

(+) = Expected Retention Time

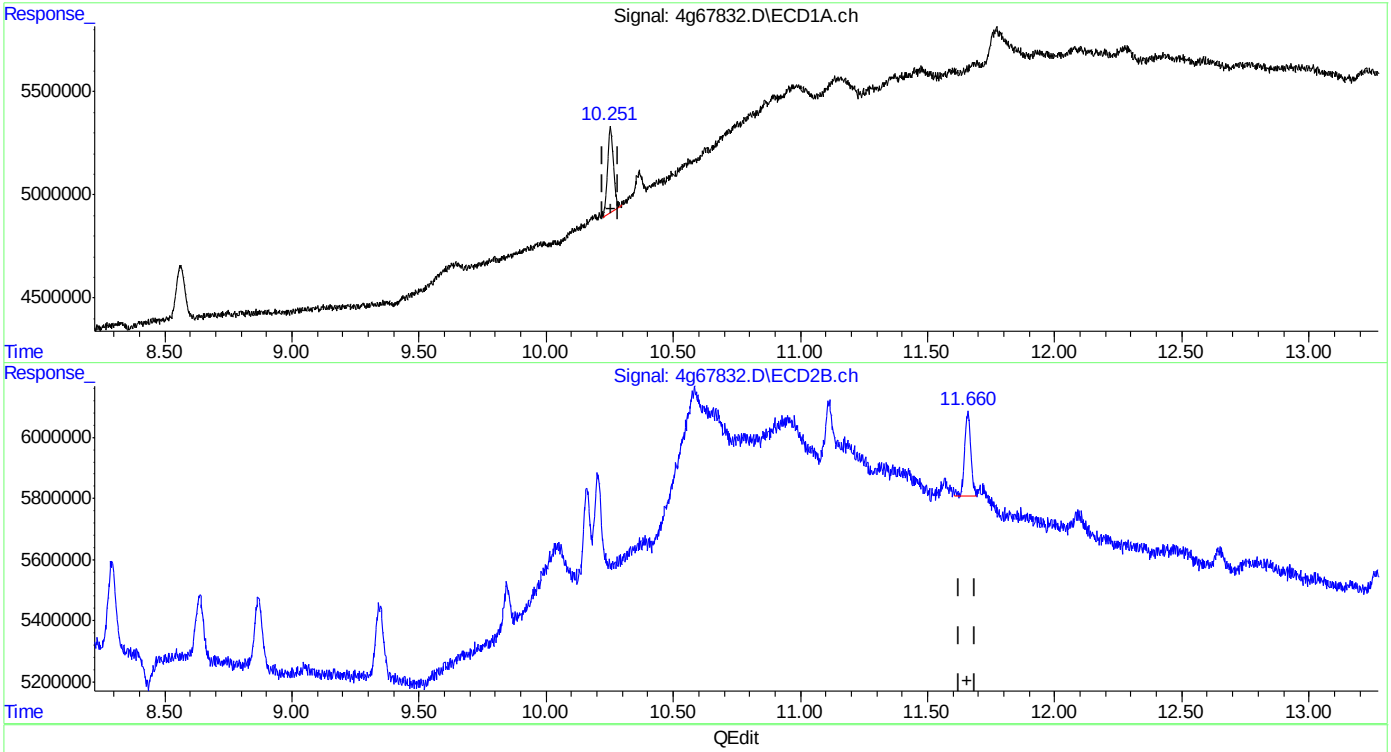
4PST1778.M Tue May 03 15:01:33 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.251min 0.857 PPB m
response 6737480

(24) Decachlorobiphenyl #2 (SA)
11.660min 0.824 PPB
response 4639115

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.786	2.071	418.4E6	360.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.589	3.104	14628969	13534834	1.873m	2.076
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	4.68%#	5.19%#
24) SA	Decachlor...	10.254	11.659	13928632	9697016	1.713m	1.676
	Spiked Amount 40.000			Recovery	=	4.28%	4.19%
	Target Compounds						
3) A	alpha-BHC	3.149	3.871	18365386	17879927	1.884	2.057
4) MA	gamma-BHC	3.498	4.350	15983959	16073254	1.912	2.037
5) MA	Heptachlor	3.822	4.975	14504205	16672961	1.616	2.048m#
6) B	beta-BHC	3.604	4.451	7565271	7627540	1.877	2.116
7) B	delta-BHC	4.062	4.880	14498248	15211216	1.768	2.108
8) MB	Aldrin	4.435	5.465	15323190	17494835	1.756	2.218 #
9) B	Heptachlo...	5.203	6.328	13774021	15746249	1.810	2.176
10) B	gamma-Chl...	5.382	6.628	13205173	14703573	1.791m	2.062
11) B	alpha-Chl...	5.567	6.860	16075989	16003308	2.104	2.262
12) A	Endosulfan I	5.750	6.965	15751275	14847420	1.895	2.188
13) B	4,4'-DDE	5.692	7.118	14669445	14441000	2.420	2.143
14) MA	Dieldrin	6.090	7.412	13366340	13877451	1.732	1.970
15) MA	Endrin	6.428	7.935	14271815	12518166	1.986	1.975
16) A	4,4'-DDD	6.572	8.093	11537678	11992111	2.028	2.108
17) B	Endosulfa...	6.768	8.291	13096497	12886995	1.871	2.039
18) MA	4,4'-DDT	6.997	8.638	6033350	9053134	1.984	1.860
19) B	Endrin Al...	7.407	8.869	11203774	9693232	1.896	1.913
20) B	Endosulfa...	8.099	9.347	12437414	11156263	2.067	2.133
21) A	Methoxychlor	7.813	9.845	4797125	5960684	1.555	2.162 #
22)	Mirex	7.998	10.159	12673452	9535377	1.974	1.996
23) B	Endrin Ke...	8.564	10.203	14581660	11550849	2.088	2.058

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.18

6

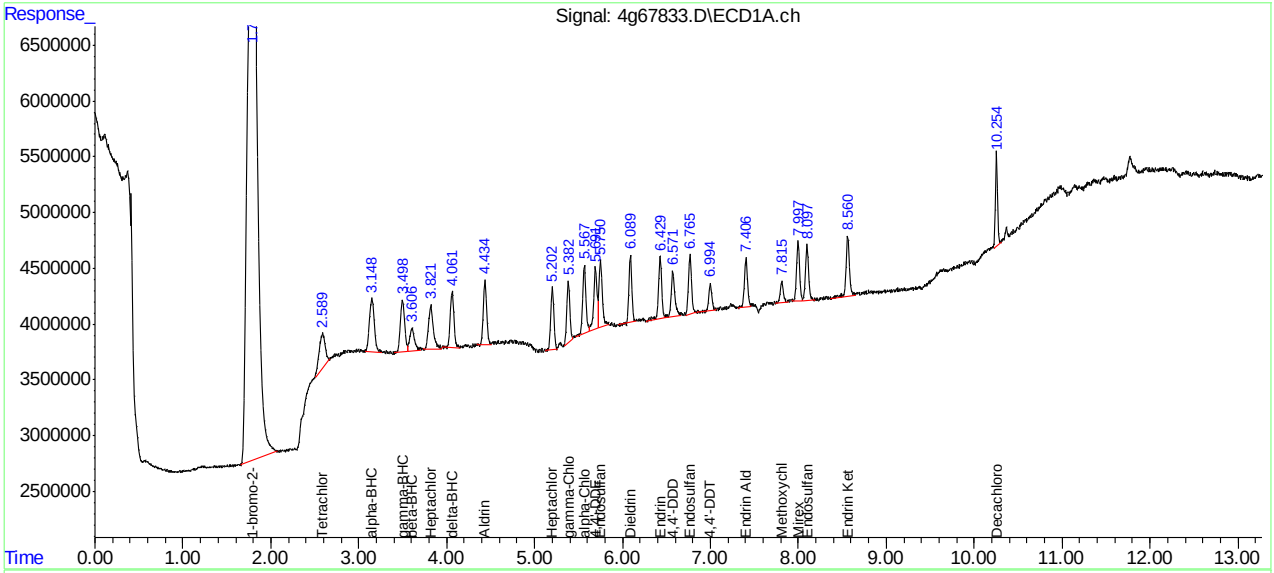
SGS ACCUTEST JC19423

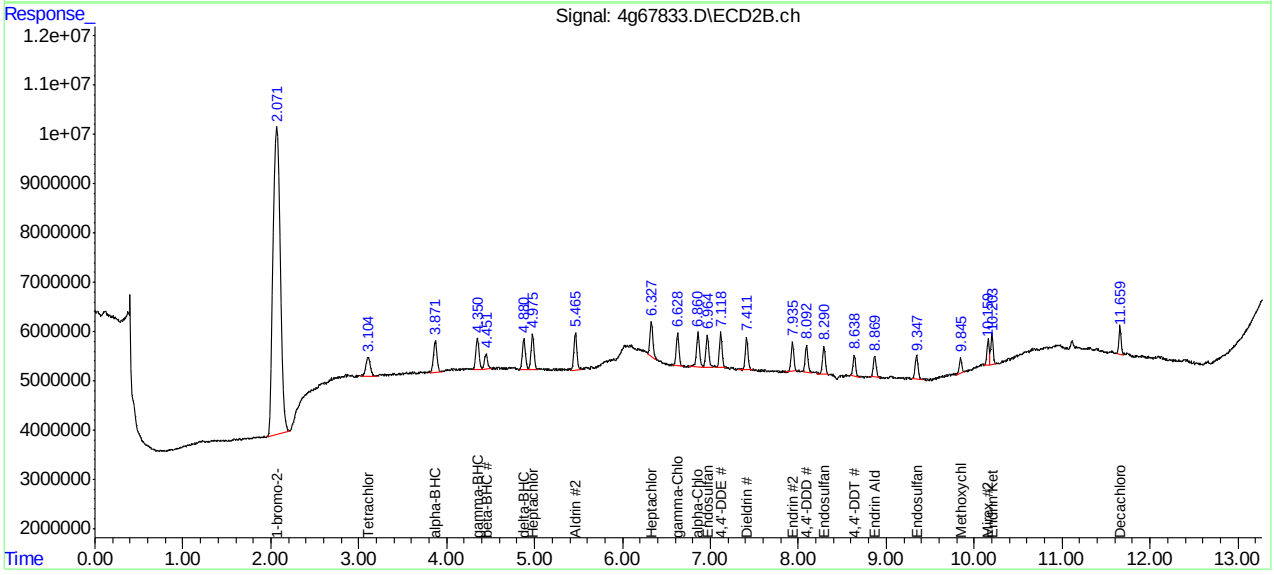
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67833.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 14:41	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

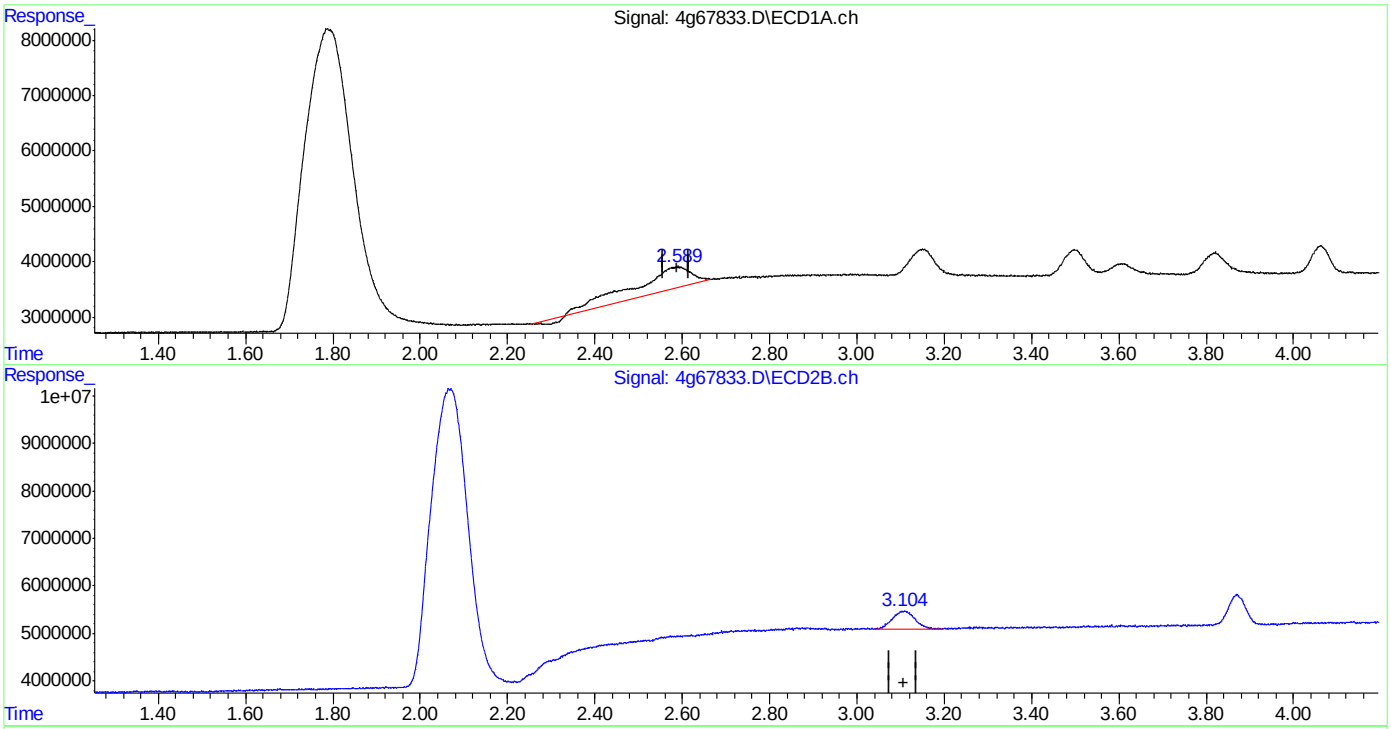
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Heptachlor	76-44-8	2	4.98	Poorly defined baseline
gamma-Chlordane	5103-74-2	1	5.38	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   2:41 pm
Operator  : dharas
Sample    : ic1778-2
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 4   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



(2) Tetrachloro-m-xylene (SAB)

2.589min 4.638 PPB

response 36214055

(2) Tetrachloro-m-xylene #2 (SAB)

3.104min 2.076 PPB

response 13534834

(+) = Expected Retention Time

4PST1778.M Tue May 03 14:57:59 2016 RPT1

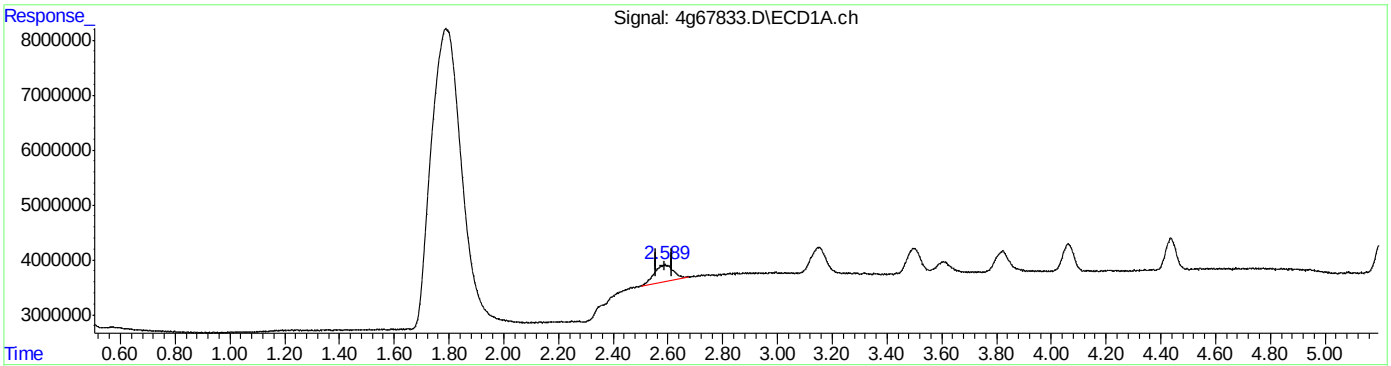
SGS ACCUTEST JC19423

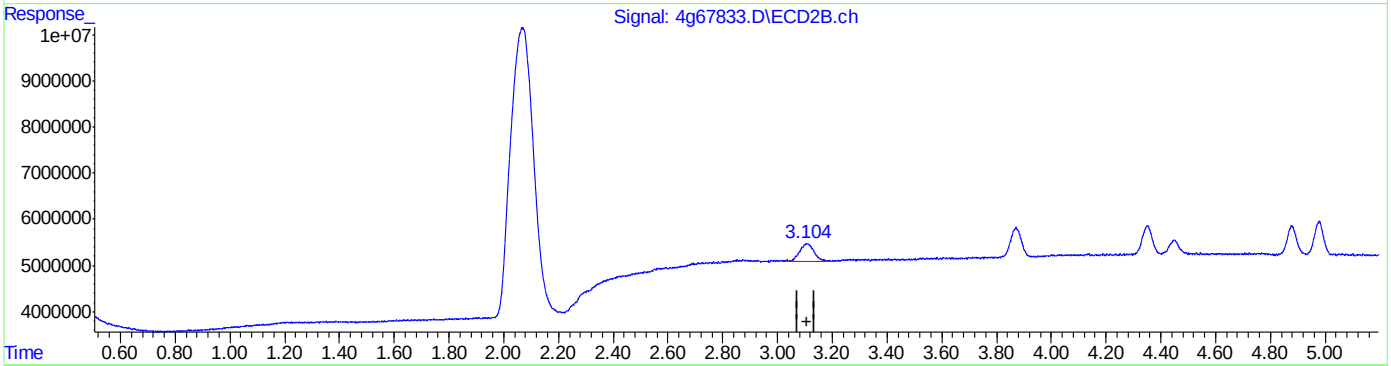
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.589min 1.873 PPB m
response 14628969

(2) Tetrachloro-m-xylene #2 (SAB)
3.104min 2.076 PPB
response 13534834

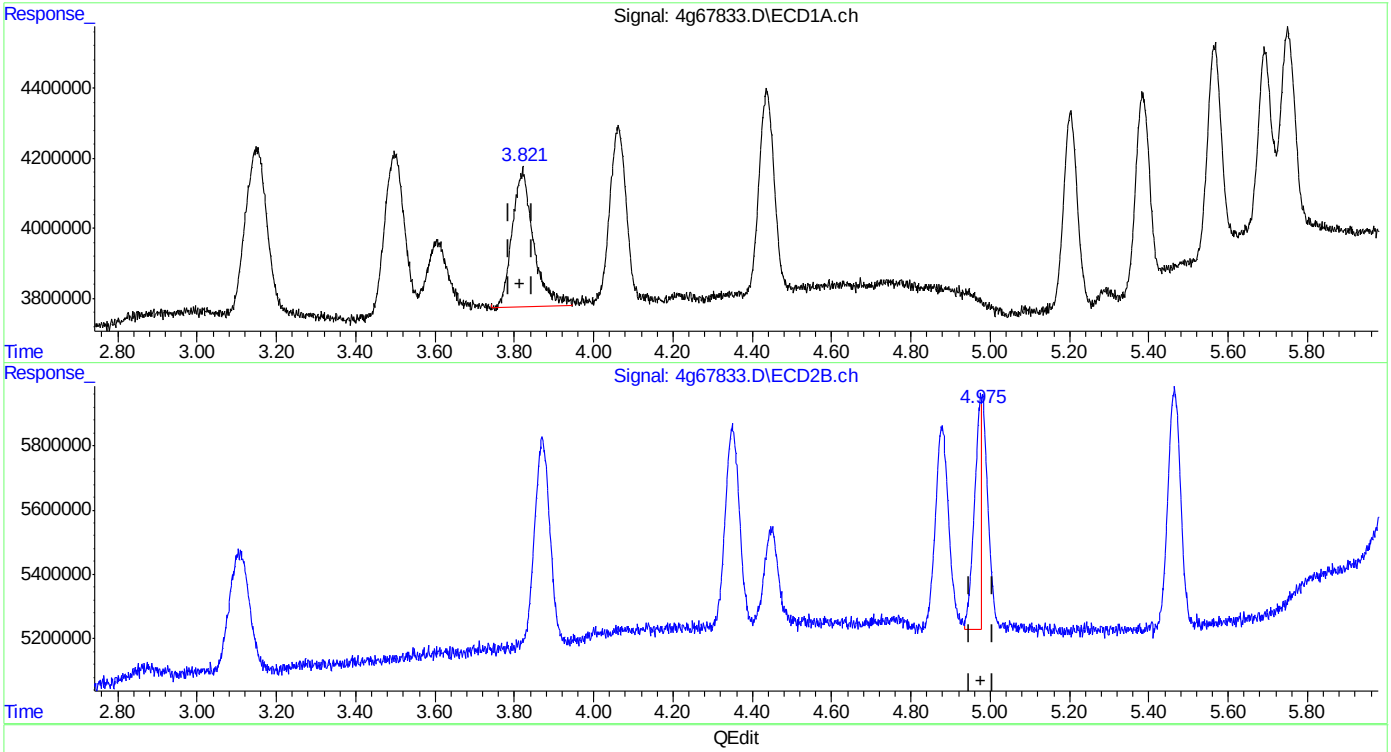
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(5) Heptachlor (MA)
3.822min 1.616 PPB
response 14504205

(5) Heptachlor #2 (MA)
4.976min 1.088 PPB
response 8859133

(+) = Expected Retention Time

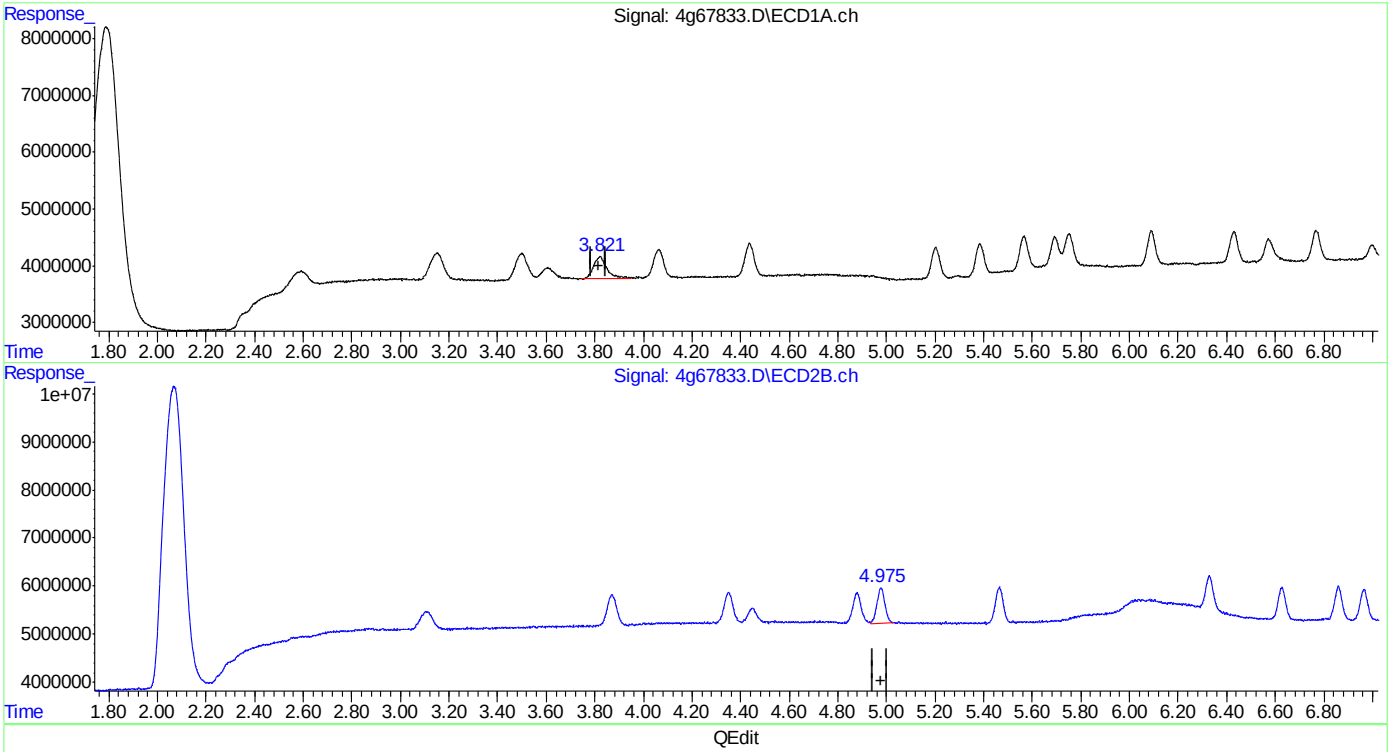
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(5) Heptachlor (MA)
3.822min 1.616 PPB
response 14504205

(5) Heptachlor #2 (MA)
4.975min 2.048 PPB m
response 16672961

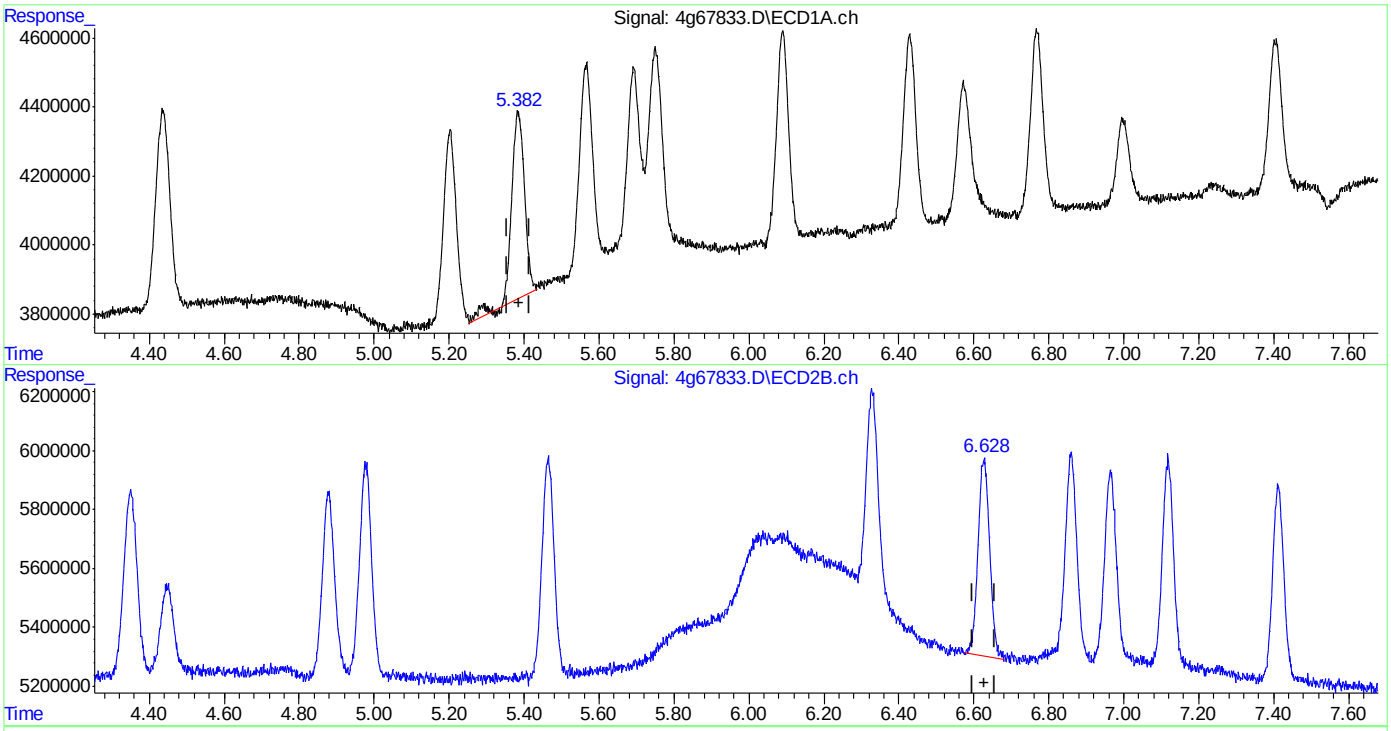
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(10) gamma-Chlordane (B)
5.384min 1.794 PPB
response 13233389

(10) gamma-Chlordane #2 (B)
6.628min 2.062 PPB
response 14703573

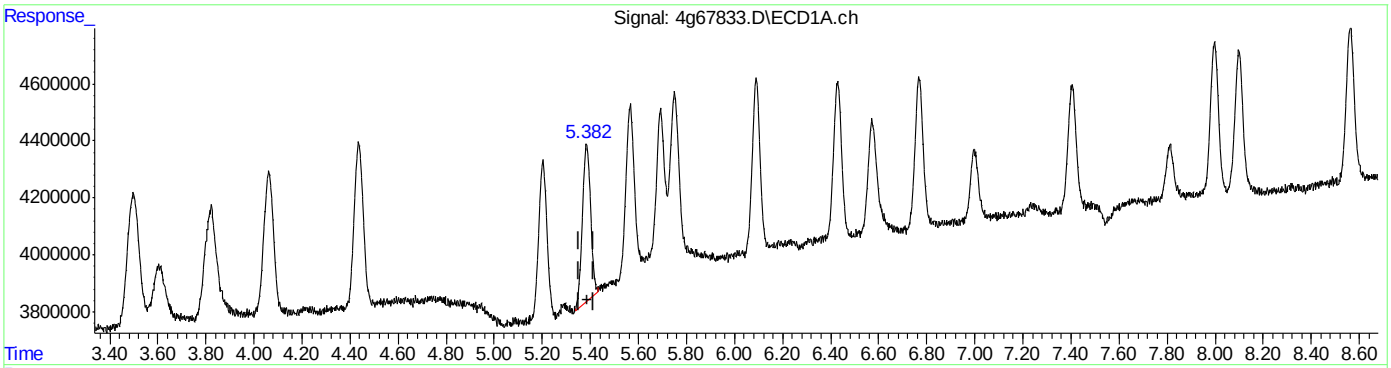
(+) = Expected Retention Time

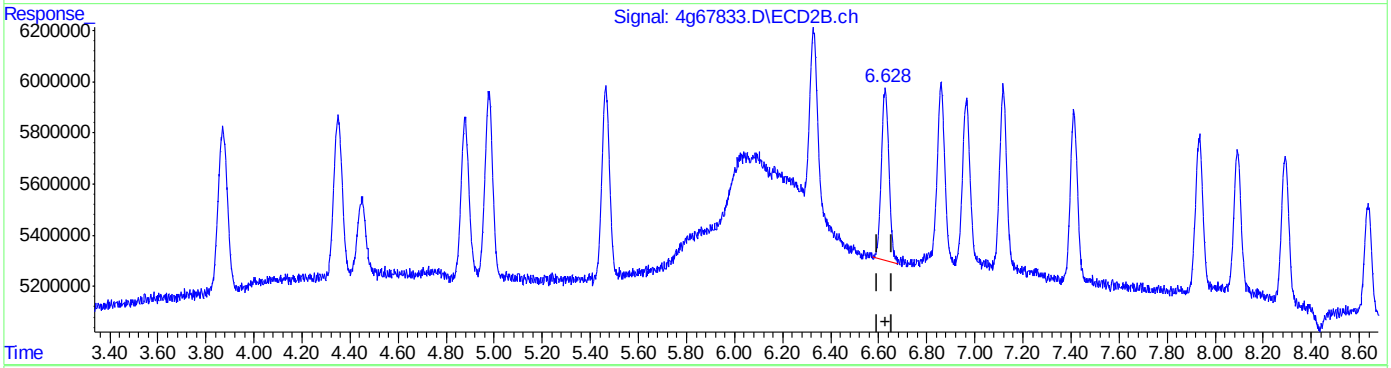
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(10) gamma-Chlordane (B)
5.382min 1.791 PPB m
response 13205173

(10) gamma-Chlordane #2 (B)
6.628min 2.062 PPB
response 14703573

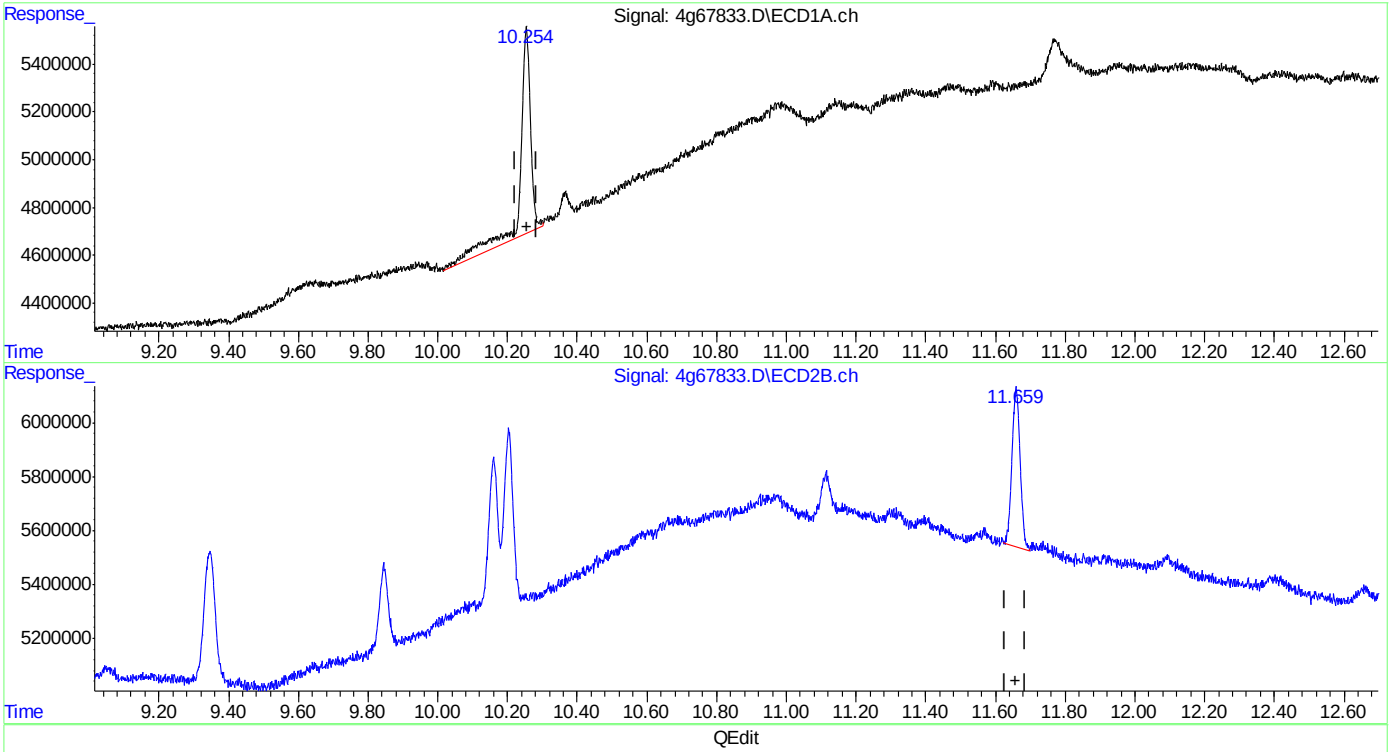
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:58:30 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.255min 2.237 PPB
response 18196219

(24) Decachlorobiphenyl #2 (SA)
11.659min 1.676 PPB
response 9697016

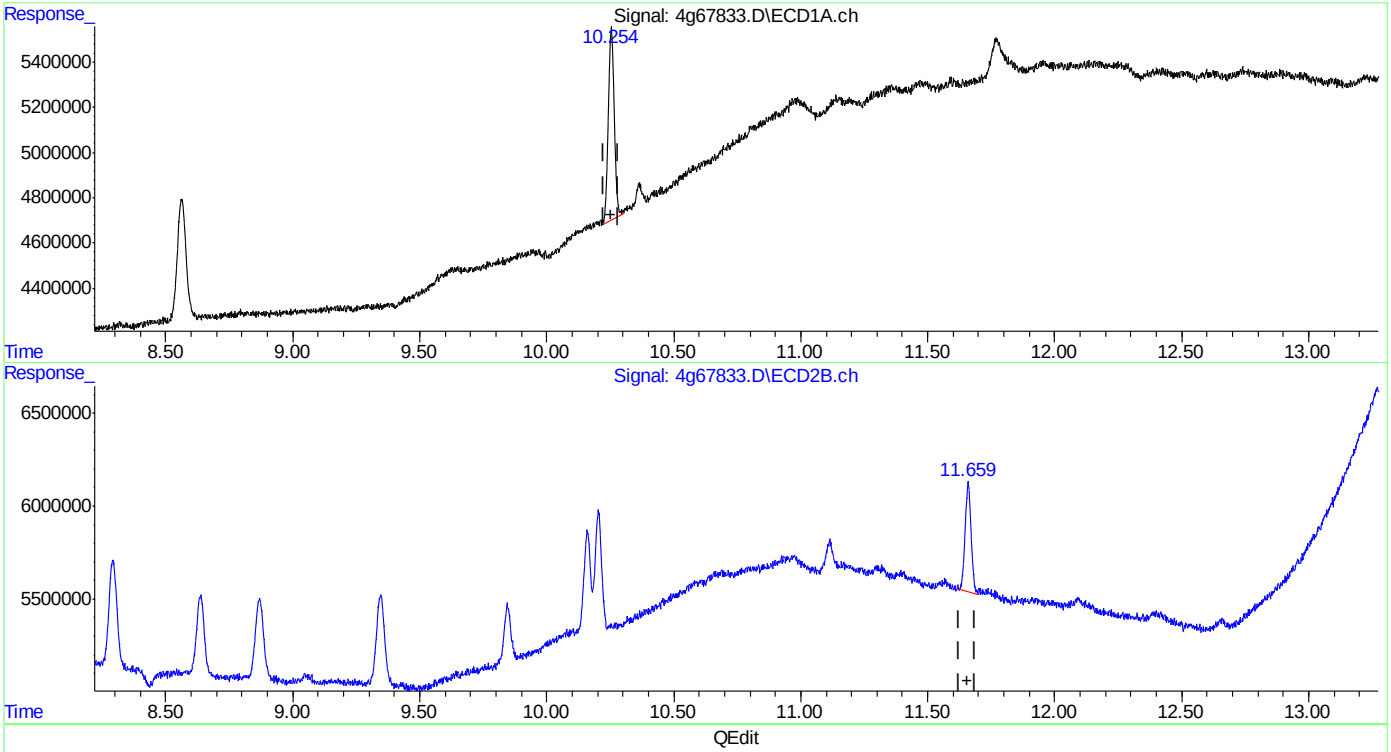
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.254min 1.713 PPB m
response 13928632

(24) Decachlorobiphenyl #2 (SA)
11.659min 1.676 PPB
response 9697016

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.797	2.075	435.6E6	375.6E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.589	3.110	37120423	31510534	4.566m	4.642	
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	11.42%#	11.61%#	
24) SA	Decachlor...	10.254	11.657	33146111	23062577	3.915	3.827	
	Spiked Amount 40.000			Recovery	=	9.79%	9.57%	
	Target Compounds							
3) A	alpha-BHC	3.153	3.874	46219553	43431583	4.553	4.798	
4) MA	gamma-BHC	3.504	4.351	40547275	39948855	4.659	4.861	
5) MA	Heptachlor	3.818	4.979	36931170	42263285	3.952	4.986	#
6) B	beta-BHC	3.606	4.449	19597202	18993035	4.670	5.060	
7) B	delta-BHC	4.064	4.881	36808299	37184195	4.312	4.949	
8) MB	Aldrin	4.439	5.466	38643434	40469208	4.253	4.926	
9) B	Heptachlo...	5.202	6.330	34168170	37267227	4.314	4.945	
10) B	gamma-Chl...	5.386	6.627	34551843	36408537	4.500	4.904	
11) B	alpha-Chl...	5.566	6.860	38177274	36218841	4.799m	4.916	
12) A	Endosulfan I	5.753	6.965	38581346	35170488	4.459	4.976	
13) B	4,4'-DDE	5.694	7.119	34073143	36221405	5.400	5.160	
14) MA	Dieldrin	6.091	7.413	35667338	35546228	4.440	4.846	
15) MA	Endrin	6.429	7.935	33499994	32244532	4.477	4.884	
16) A	4,4'-DDD	6.572	8.093	27165840	28835872	4.587	4.868	
17) B	Endosulfa...	6.770	8.293	32658172	31838628	4.482	4.837	
18) MA	4,4'-DDT	6.998	8.637	16296273	23974623	3.946	4.731	
19) B	Endrin Al...	7.405	8.868	27297036	24559300	4.438	4.654	
20) B	Endosulfa...	8.100	9.345	30350970	27674564	4.846	5.081	
21) A	Methoxychlor	7.812	9.844	11400355	14306289	3.549	4.982	#
22)	Mirex	7.998	10.159	32427661	22642104	4.853	4.551	
23) B	Endrin Ke...	8.563	10.203	34261066	28771653	4.713	4.923	

SemiQuant Compounds - Not Calibrated on this Instrument

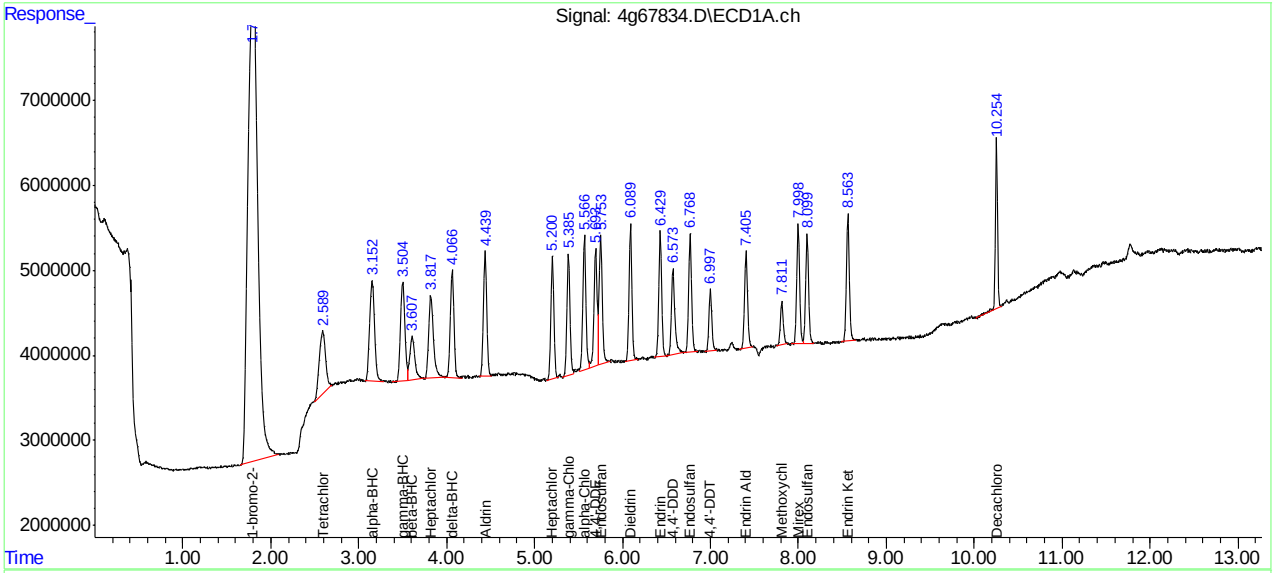
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

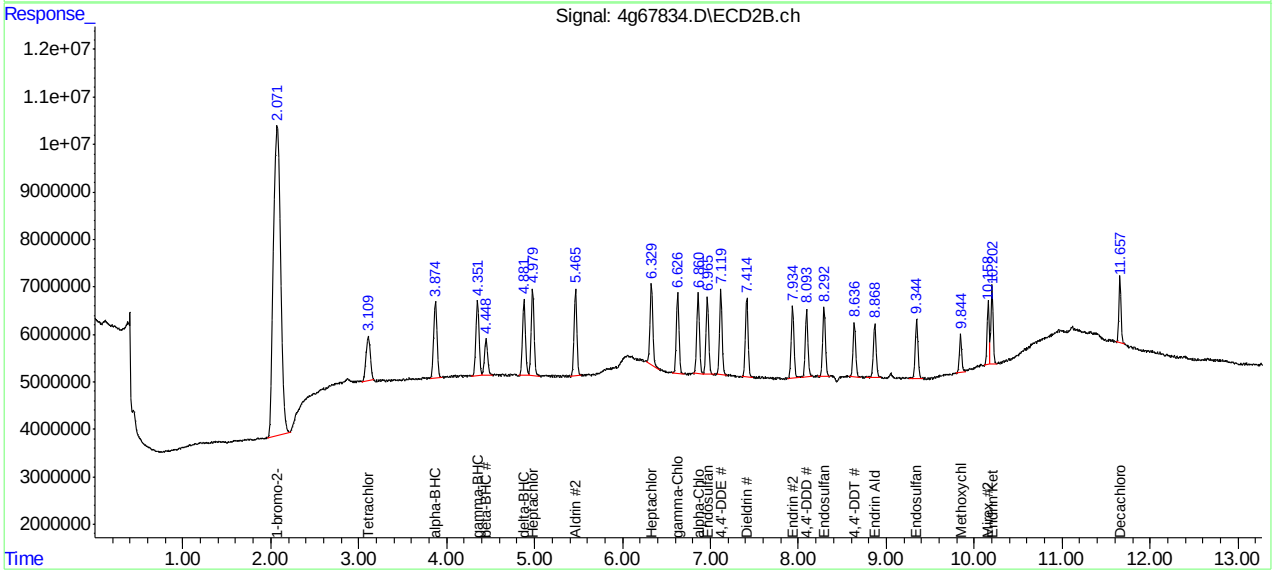
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC19423

Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67834.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 14:56	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

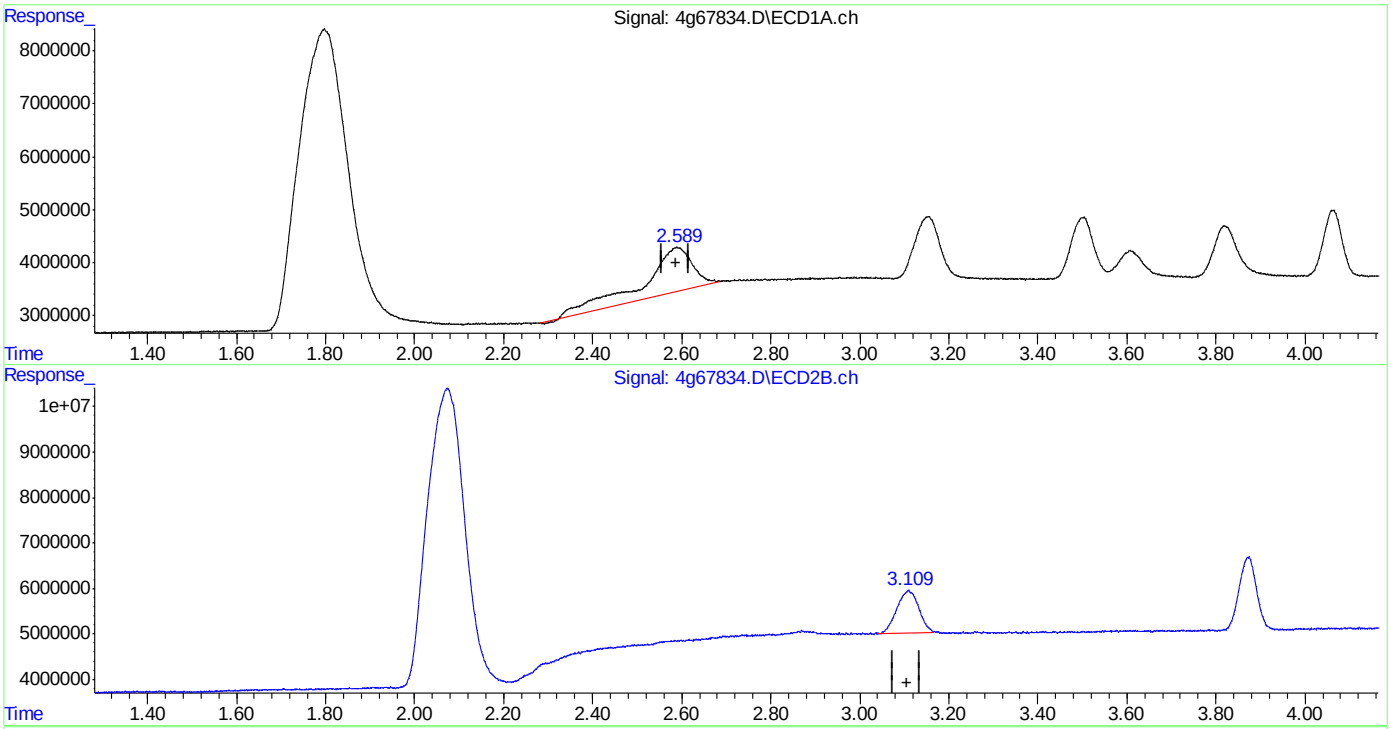
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
alpha-Chlordane	5103-71-9	1	5.57	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.589min 8.082 PPB
response 65701446

(2) Tetrachloro-m-xylene #2 (SAB)
3.110min 4.642 PPB
response 31510534

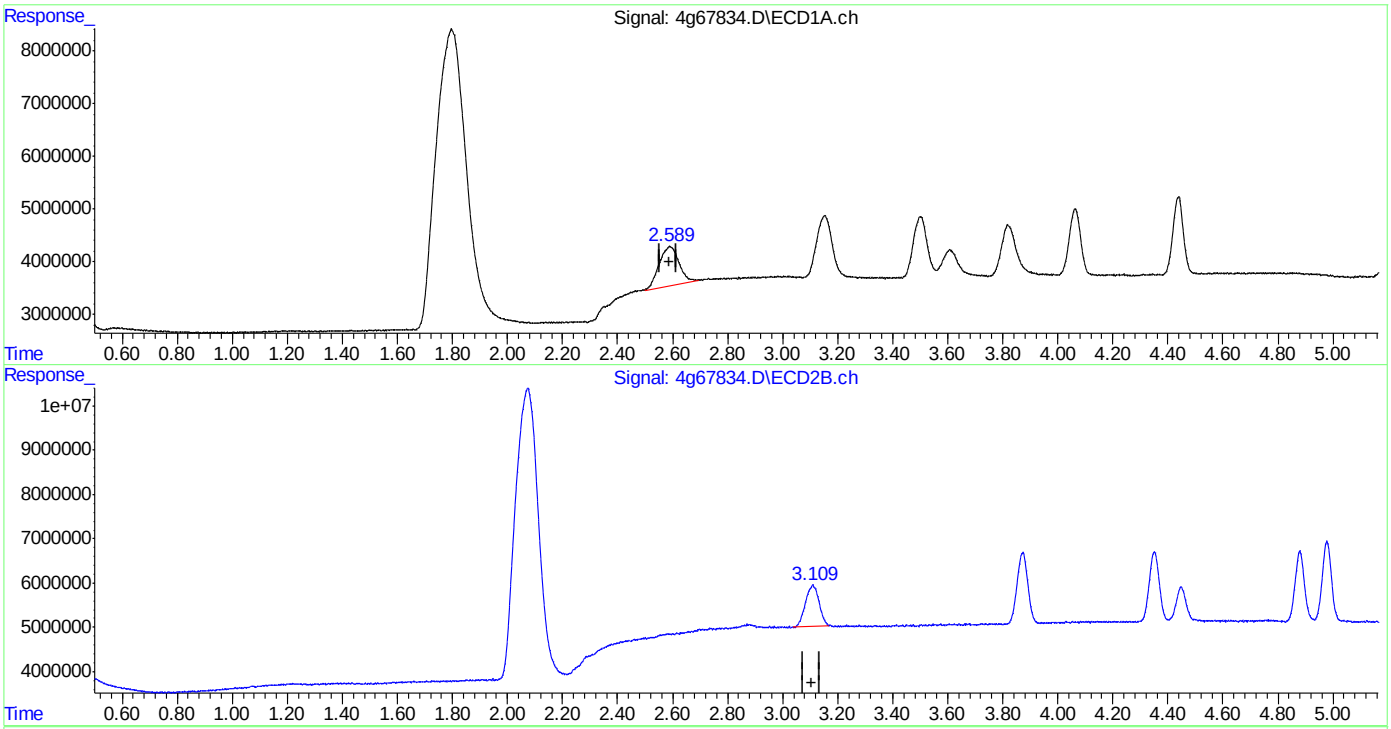
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:55:54 2016 RPT1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   2:56 pm
Operator  : dharas
Sample    : ic1778-5
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 5   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(2) Tetrachloro-m-xylene (SAB)

2.589min 4.566 PPB m

response 37120423

(2) Tetrachloro-m-xylene #2 (SAB)

3.110min 4.642 PPB

response 31510534

(+) = Expected Retention Time

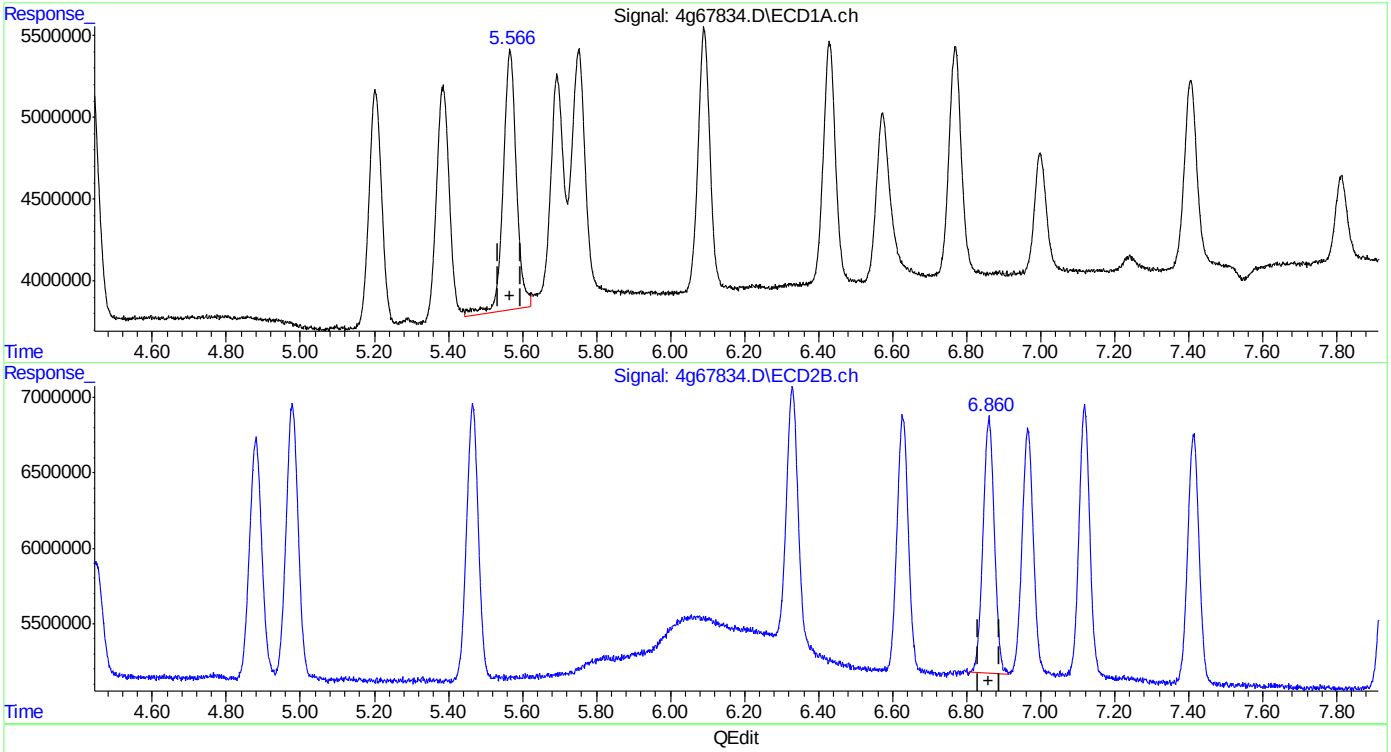
4PST1778.M Tue May 03 14:56:00 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(11) alpha-Chlordane (B)
5.566min 4.945 PPB
response 39336194

(11) alpha-Chlordane #2 (B)
6.860min 4.916 PPB
response 36218841

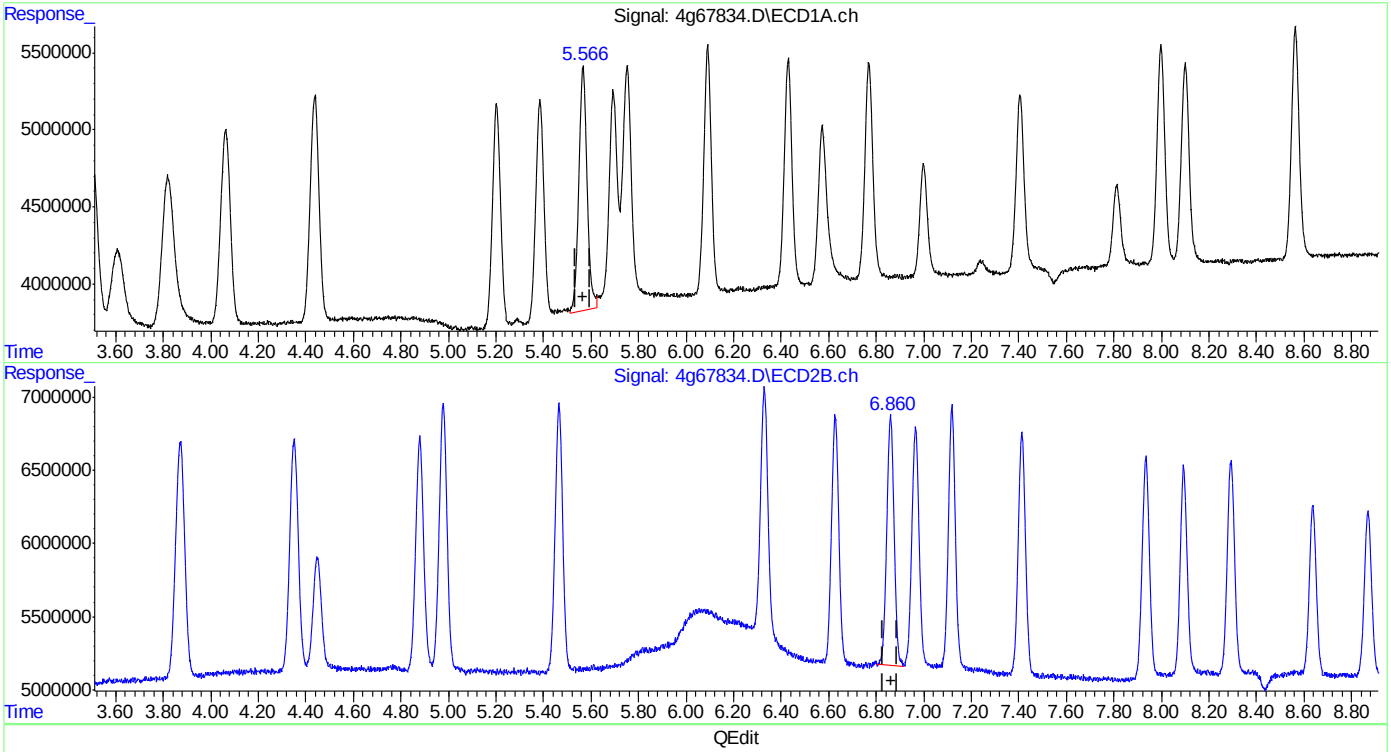
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(11) alpha-Chlordane (B)
5.566min 4.799 PPB m
response 38177274

(11) alpha-Chlordane #2 (B)
6.860min 4.916 PPB
response 36218841

(+) = Expected Retention Time

SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.786	2.065	411.1E6	356.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.586	3.105	69594232	62600360	9.072m	9.719
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	22.68%#	24.30%#
24) SA	Decachlor...	10.253	11.658	65389757	44644072	8.183m	7.809
	Spiked Amount 40.000			Recovery	=	20.46%	19.52%
	Target Compounds						
3) A	alpha-BHC	3.150	3.870	89915281	85888233	9.386	9.999
4) MA	gamma-BHC	3.499	4.351	80147947	78252821	9.758	10.035
5) MA	Heptachlor	3.819	4.977	72318460	81192861	8.200	10.095
6) B	beta-BHC	3.607	4.447	39757995	36316888	10.040	10.198
7) B	delta-BHC	4.061	4.879	71938995	73286371	8.931	10.280
8) MB	Aldrin	4.436	5.464	76050120	77604763	8.869	9.955
9) B	Heptachlo...	5.204	6.329	67773826	71904390	9.067	10.057
10) B	gamma-Chl...	5.385	6.627	66349566	70400286	9.157	9.993
11) B	alpha-Chl...	5.566	6.859	70879047	70047048	9.442	10.020
12) A	Endosulfan I	5.752	6.965	73933198	67583347	9.053	10.078
13) B	4,4'-DDE	5.694	7.118	62035845	70477191	10.419	10.582
14) MA	Dieldrin	6.091	7.413	70073829	69640743	9.244	10.006
15) MA	Endrin	6.430	7.934	66080818	63398145	9.358	10.122
16) A	4,4'-DDD	6.573	8.094	53993241	56062249	9.661	9.974
17) B	Endosulfa...	6.768	8.292	64484515	62683056	9.377	10.038
18) MA	4,4'-DDT	6.998	8.637	36008378	48486712	8.137	10.084
19) B	Endrin Al...	7.405	8.869	54665173	47318705	9.418	9.451
20) B	Endosulfa...	8.100	9.346	60063043	52034402	10.163	10.069
21) A	Methoxychlor	7.811	9.845	25471597	27319112	8.402	10.027
22)	Mirex	7.998	10.160	63168824	44456767	10.017	9.418
23) B	Endrin Ke...	8.564	10.204	69012051	56428001	10.059	10.176

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.20

9

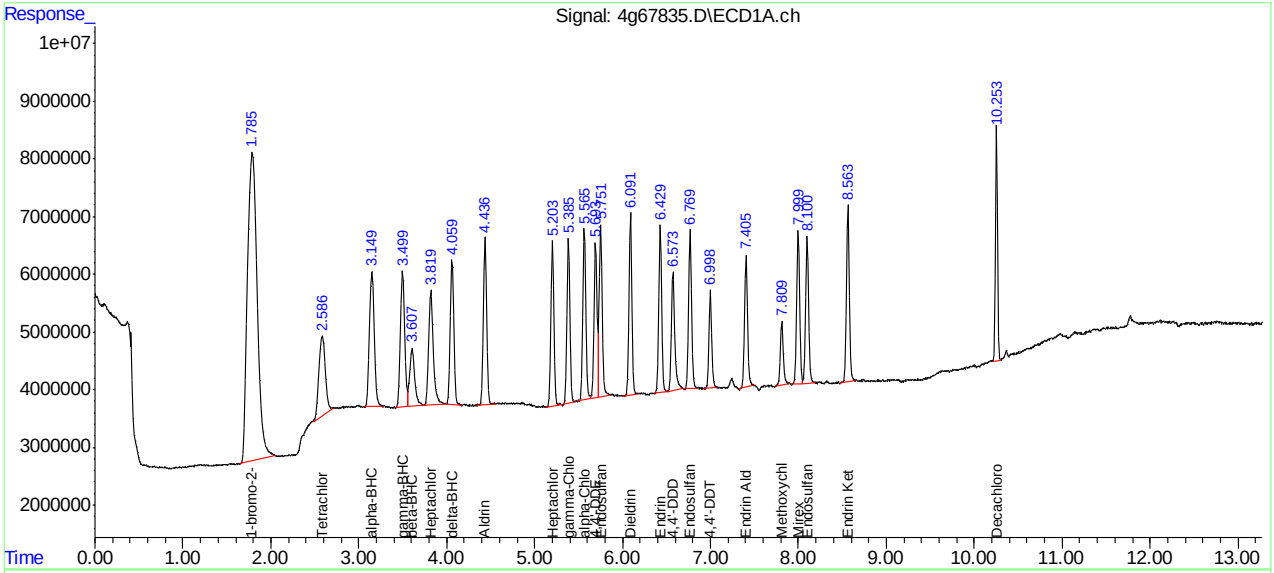
SGS ACCUTEST JC19423

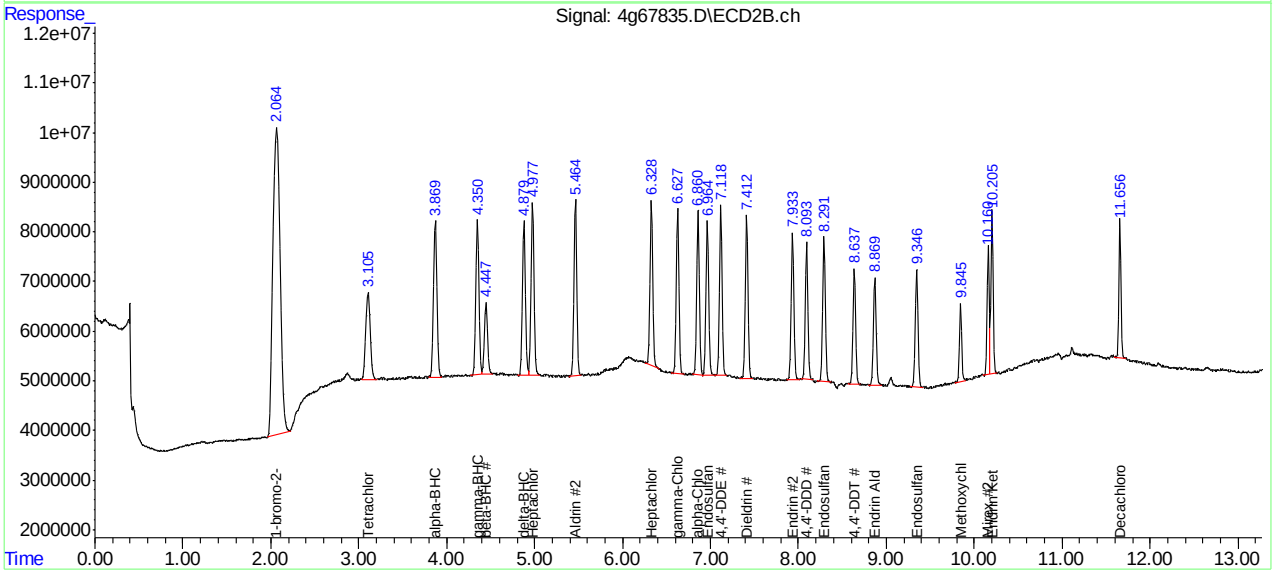
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67835.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 15:11	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

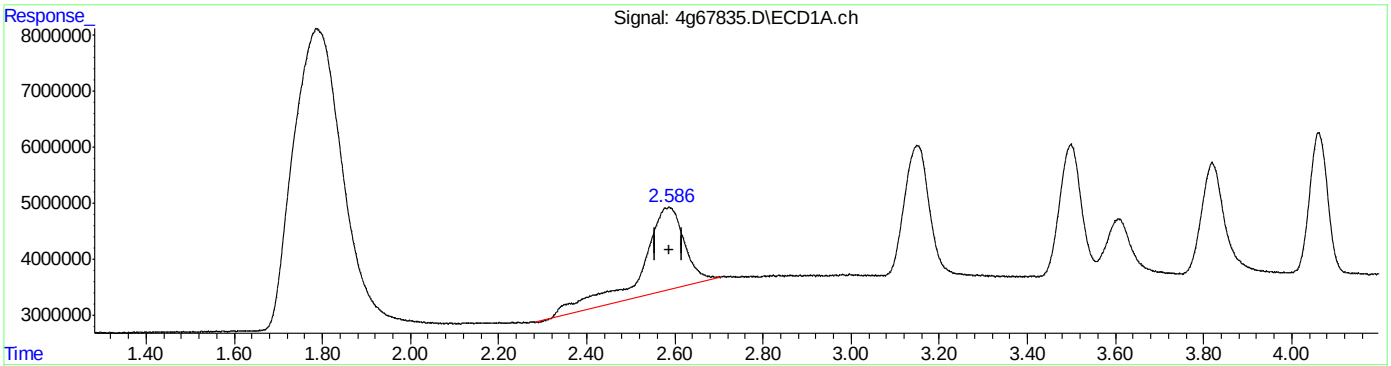
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

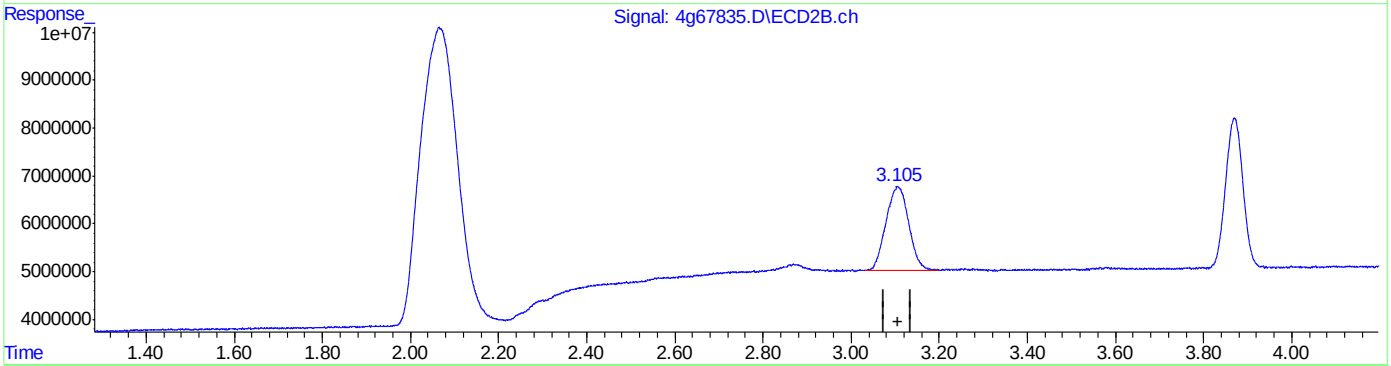
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.587min 13.216 PPB
response 101384592

(2) Tetrachloro-m-xylene #2 (SAB)
3.105min 9.719 PPB
response 62600360

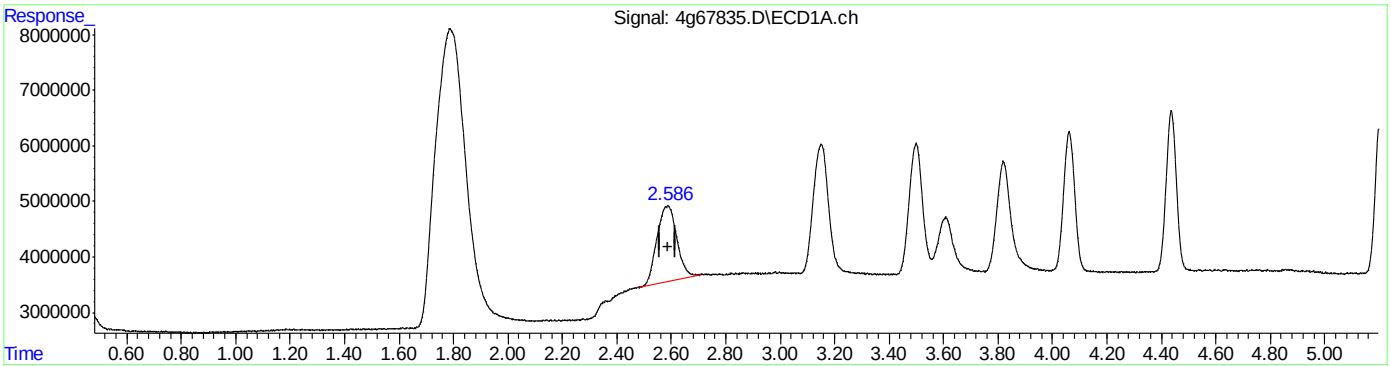
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:54:27 2016 RPT1

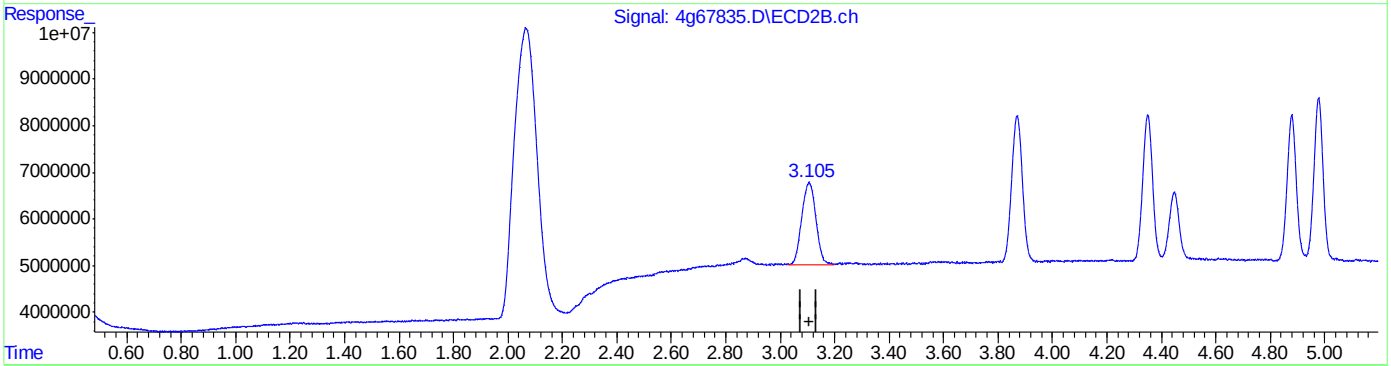
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.586min 9.072 PPB m
response 69594232

(2) Tetrachloro-m-xylene #2 (SAB)
3.105min 9.719 PPB
response 62600360

(+) = Expected Retention Time

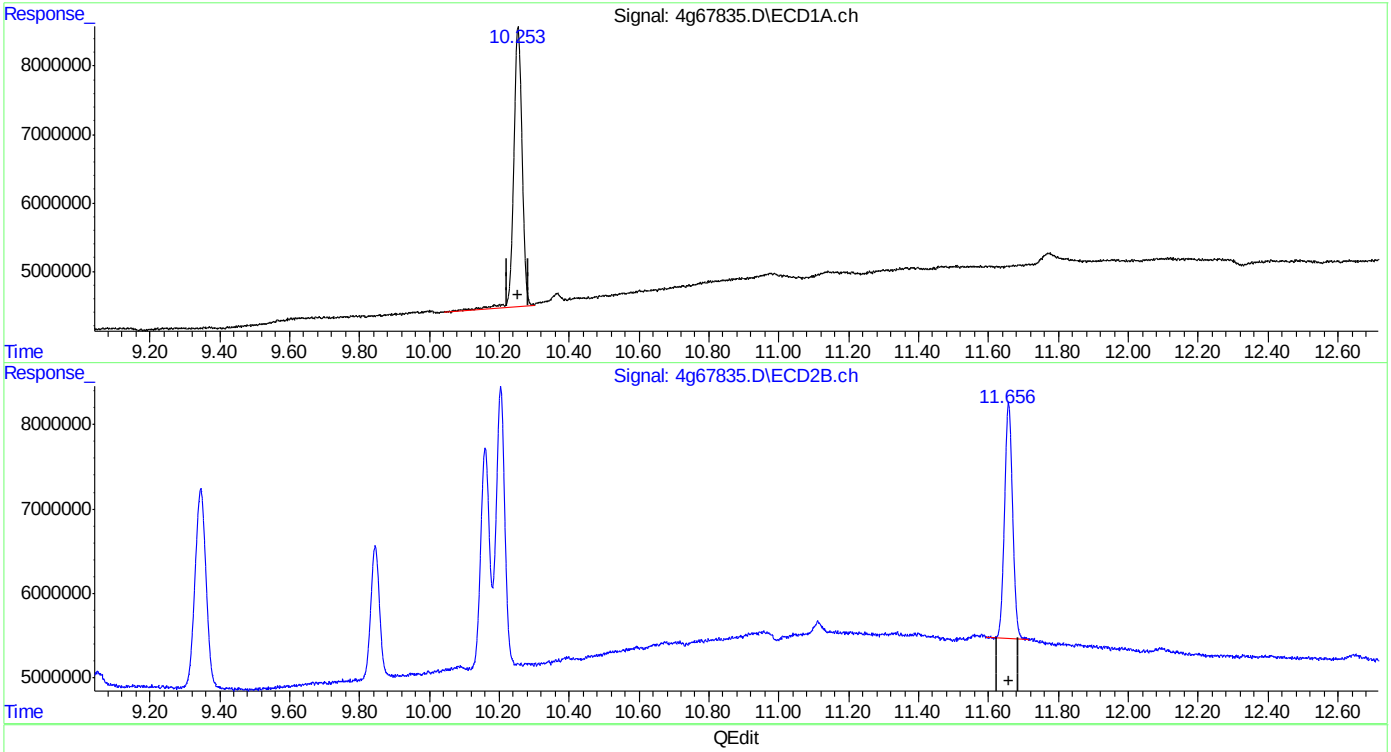
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.254min 8.450 PPB
response 67519126

(24) Decachlorobiphenyl #2 (SA)
11.658min 7.809 PPB
response 44644072

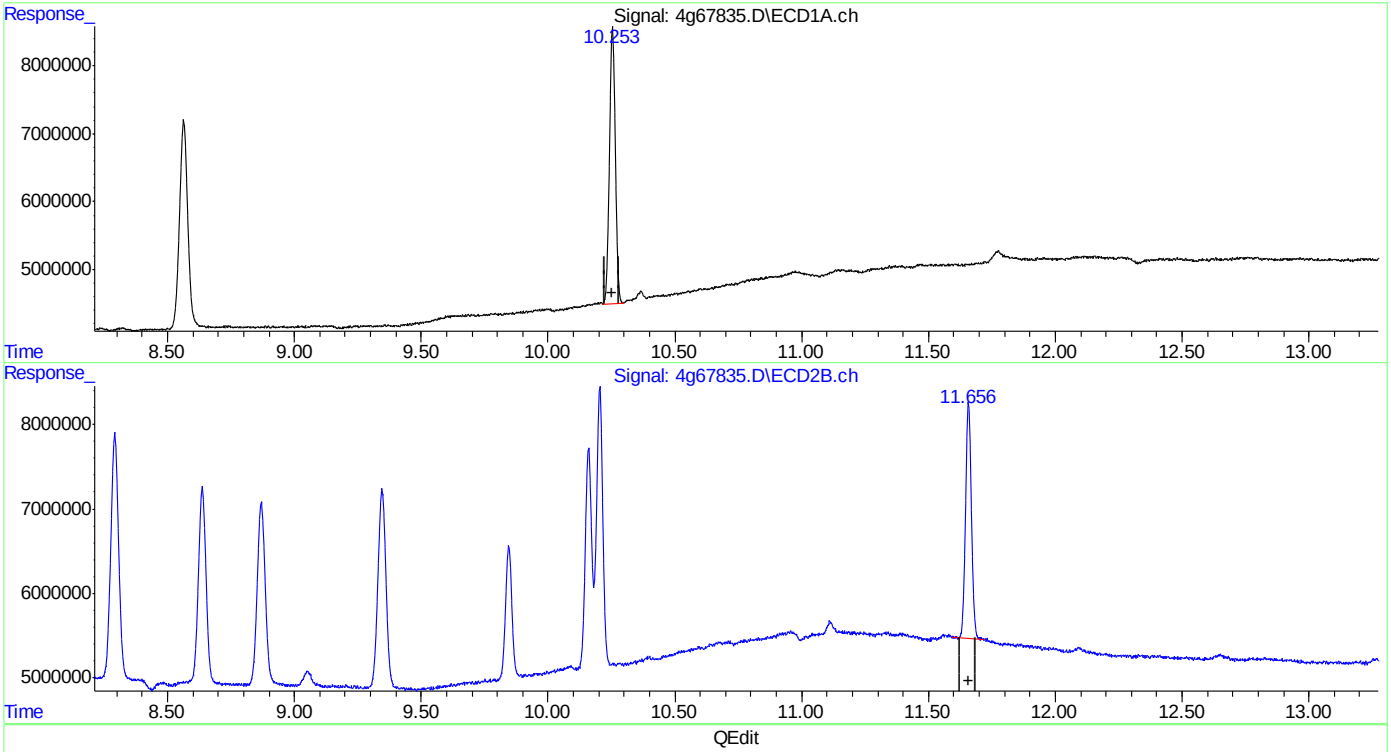
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.253min 8.183 PPB m
response 65389757

(24) Decachlorobiphenyl #2 (SA)
11.658min 7.809 PPB
response 44644072

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:54:58 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.797	2.073	431.7E6	375.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.592	3.108	186.1E6	165.7E6	23.099m	24.393
	Spiked Amount 40.000 Range 30 - 150 Recovery = 57.75% 60.98%						
24) SA	Decachlor...	10.253	11.656	174.3E6	115.1E6	20.768m	19.090
	Spiked Amount 40.000 Recovery = 51.92% 47.73%						
	Target Compounds						
3) A	alpha-BHC	3.154	3.873	249.7E6	237.0E6	24.827	26.162
4) MA	gamma-BHC	3.501	4.352	220.5E6	211.8E6	25.572	25.754
5) MA	Heptachlor	3.820	4.979	202.4E6	217.3E6	21.860	25.620
6) B	beta-BHC	3.606	4.448	104.7E6	95390450	25.175	25.395
7) B	delta-BHC	4.064	4.880	195.1E6	200.5E6	23.071	26.669
8) MB	Aldrin	4.439	5.466	209.7E6	209.2E6	23.287	25.448
9) B	Heptachlo...	5.203	6.330	185.5E6	190.2E6	23.638	25.224
10) B	gamma-Chl...	5.386	6.628	188.5E6	187.8E6	24.772	25.269
11) B	alpha-Chl...	5.567	6.861	193.7E6	183.7E6	24.568	24.917
12) A	Endosulfan I	5.753	6.966	202.9E6	178.0E6	23.666	25.164
13) B	4,4'-DDE	5.694	7.119	175.1E6	188.4E6	28.001	26.822
14) MA	Dieldrin	6.091	7.413	199.3E6	189.4E6	25.037	25.797
15) MA	Endrin	6.430	7.935	183.3E6	167.9E6	24.726	25.411
16) A	4,4'-DDD	6.571	8.093	157.3E6	151.9E6	26.802	25.623
17) B	Endosulfa...	6.769	8.292	183.5E6	165.5E6	25.415	25.120
18) MA	4,4'-DDT	6.998	8.637	112.2E6	134.0E6	21.697	26.428
19) B	Endrin Al...	7.405	8.869	151.5E6	126.0E6	24.863	23.863
20) B	Endosulfa...	8.099	9.346	164.7E6	136.9E6	26.535	25.108
21) A	Methoxychlor	7.809	9.845	72837603	71070940	22.880	24.731
22)	Mirex	7.997	10.160	165.5E6	112.4E6	24.989	22.570
23) B	Endrin Ke...	8.563	10.203	195.2E6	151.5E6	27.097	25.906

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.21

9

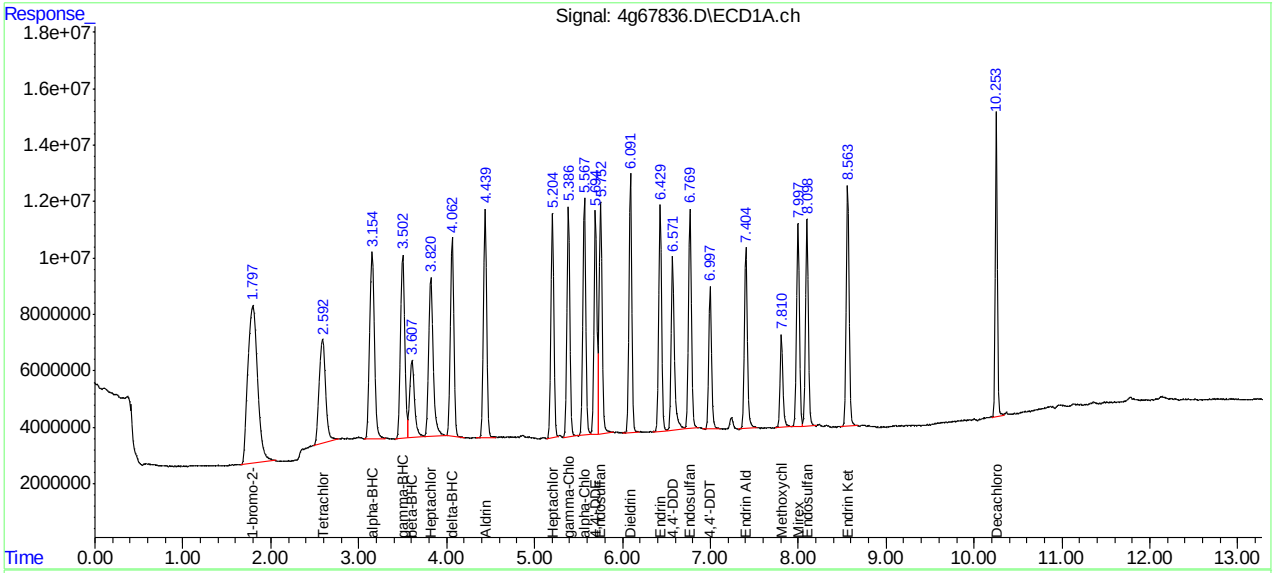
SGS ACCUTEST JC19423

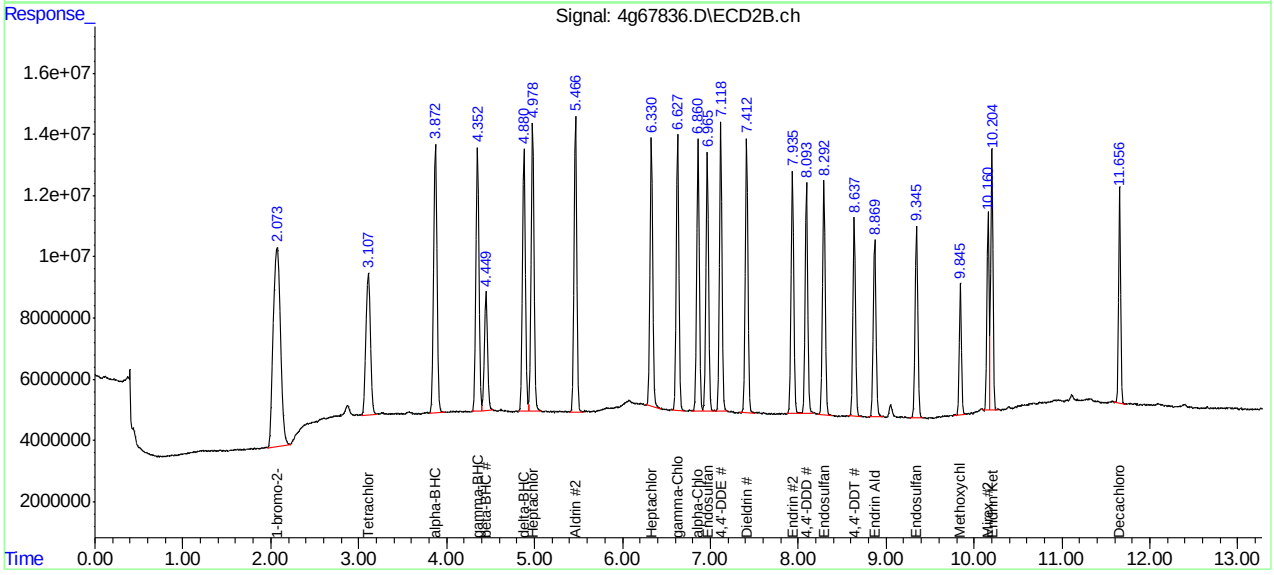
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-ICC1778	**Method:**	SW846 8081B
Lab FileID:	4G67836.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 15:26	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

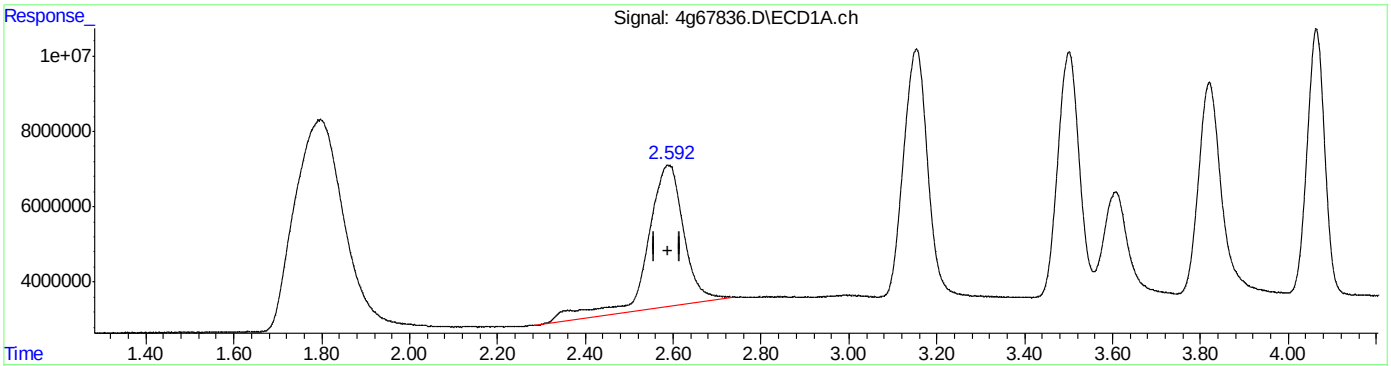
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

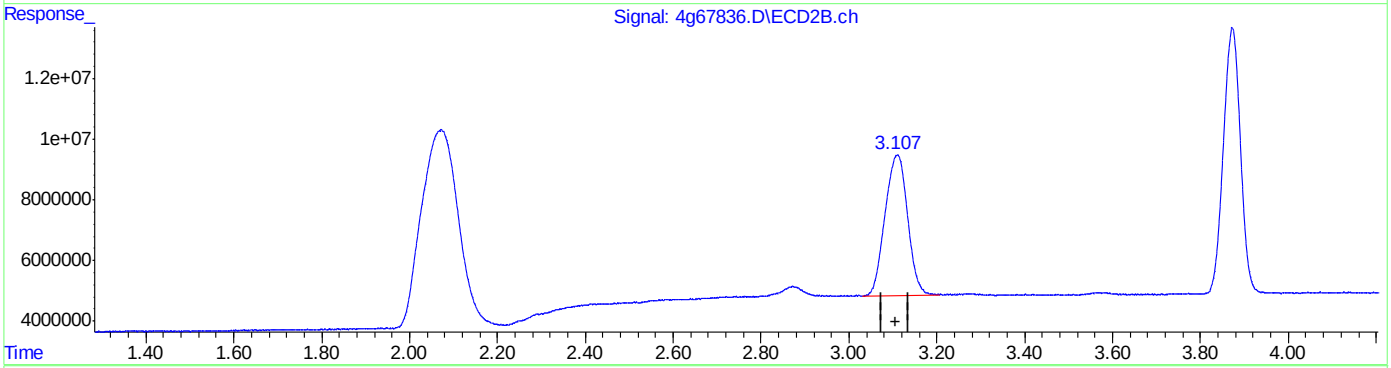
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:53:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.588min 27.139 PPB
response 218617775

(2) Tetrachloro-m-xylene #2 (SAB)
3.108min 24.393 PPB
response 165722496

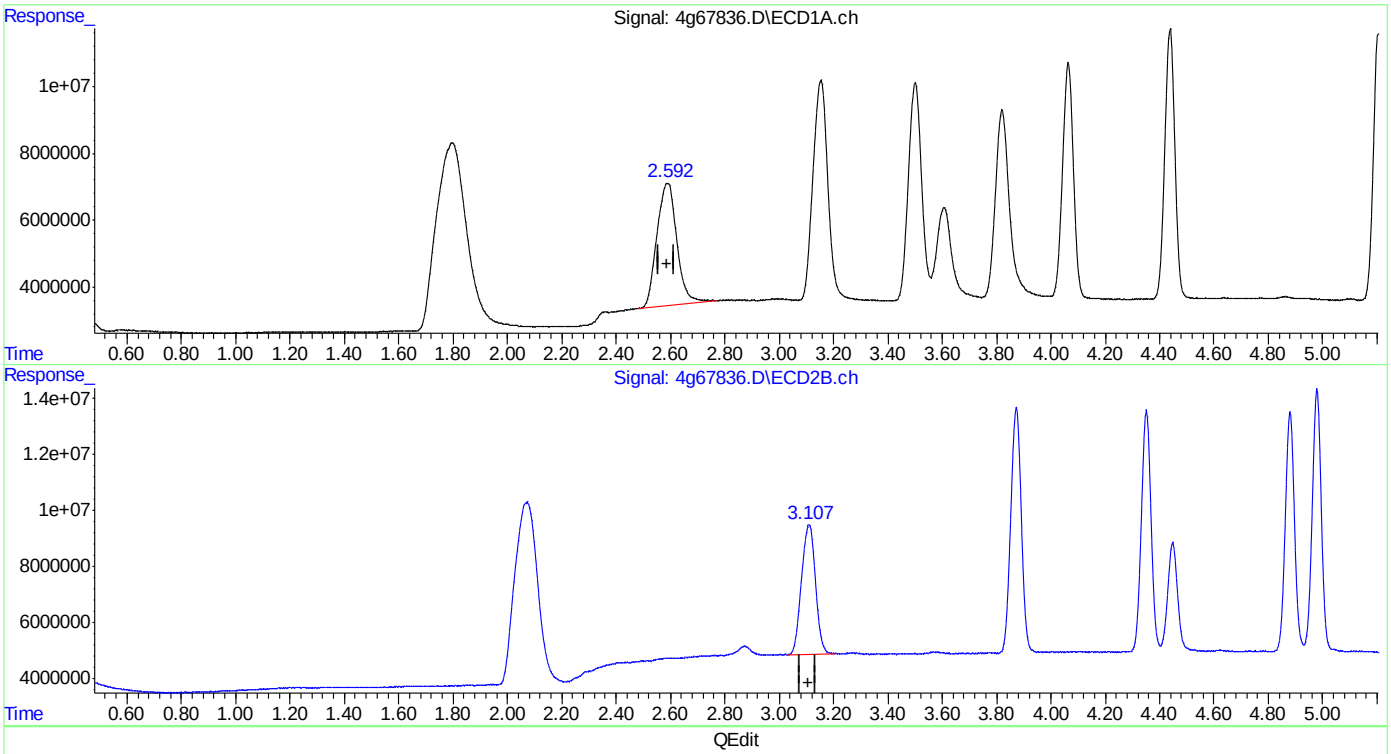
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:53:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.592min 23.099 PPB m
response 186077076

(2) Tetrachloro-m-xylene #2 (SAB)
3.108min 24.393 PPB
response 165722496

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:53:30 2016 RPT1

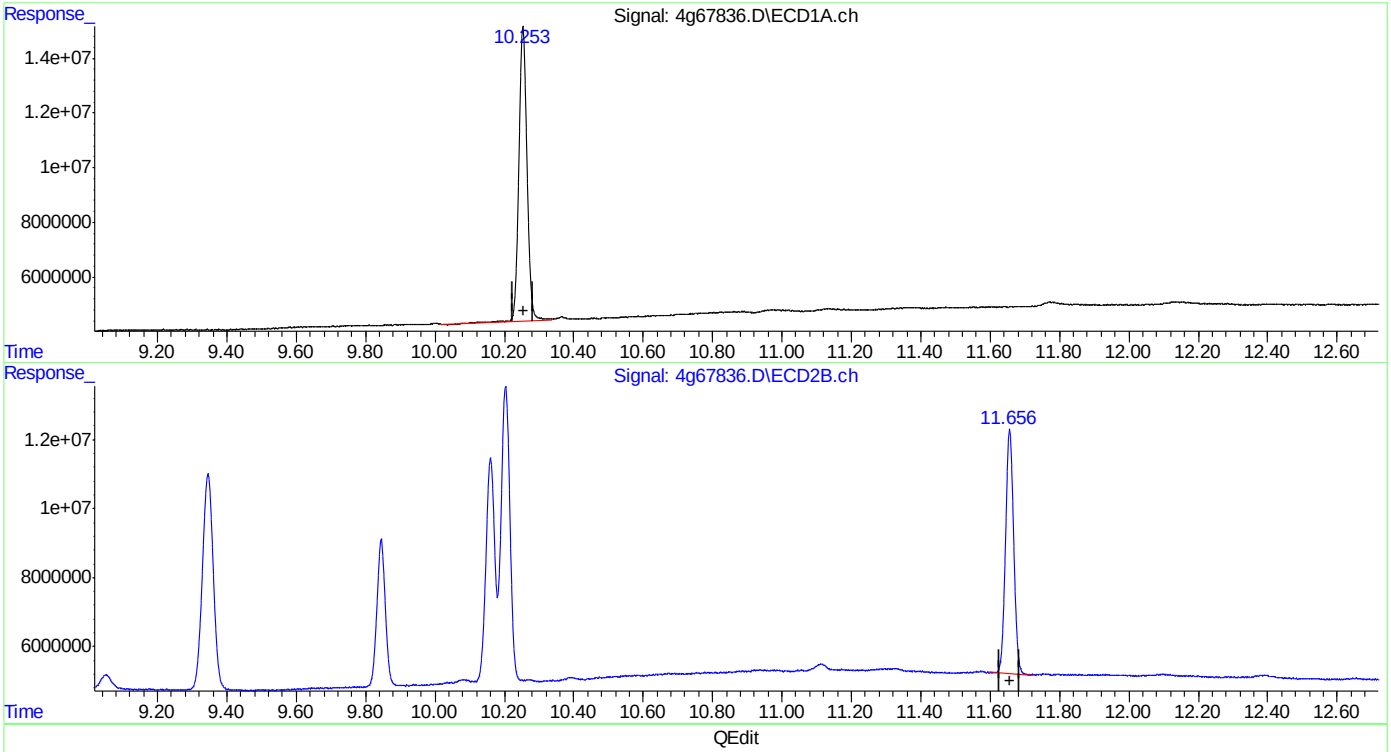
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:53:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.253min 20.863 PPB
response 175049871

(24) Decachlorobiphenyl #2 (SA)
11.656min 19.090 PPB
response 115123212

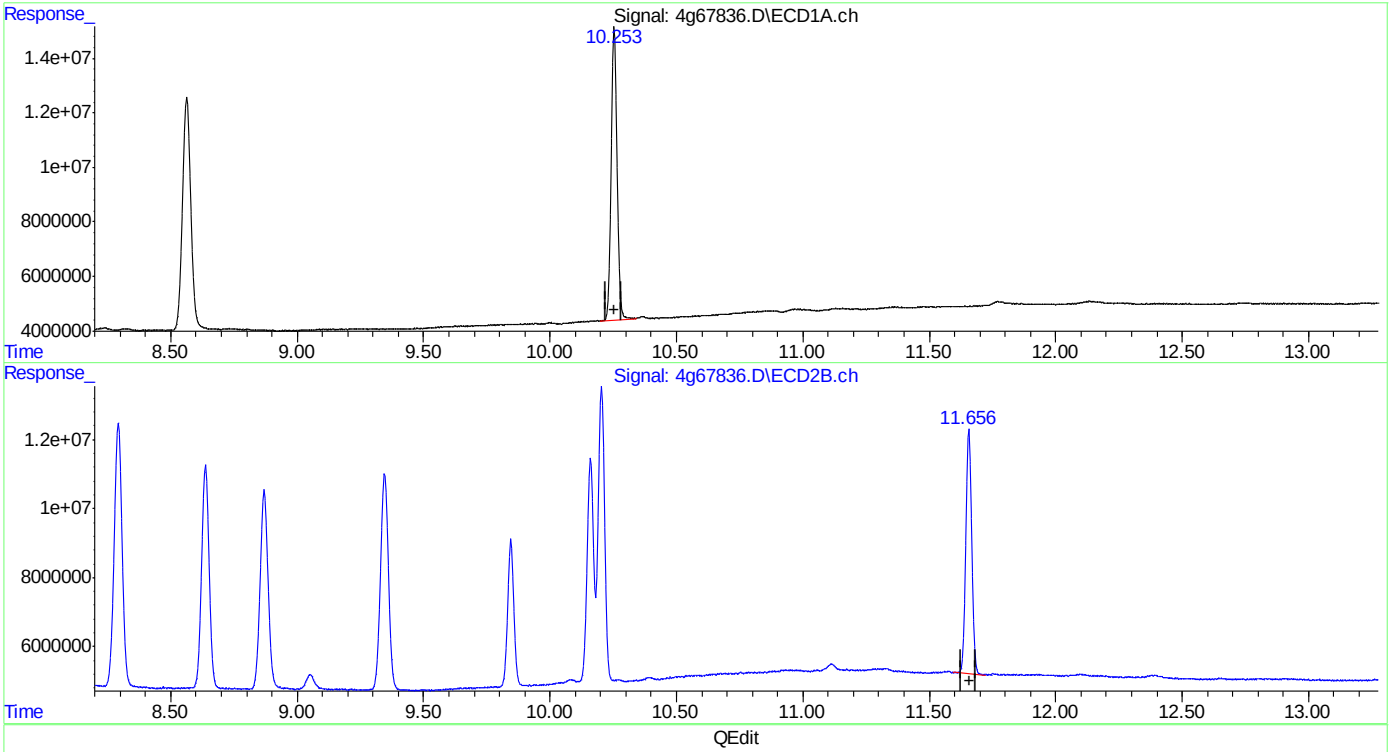
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:53:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.253min 20.768 PPB m
response 174257754

(24) Decachlorobiphenyl #2 (SA)
11.656min 19.090 PPB
response 115123212

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.791	2.069	419.5E6	370.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.587	3.108	360.1E6	324.0E6	46.003	48.360
	Spiked Amount 40.000 Range 30 - 150 Recovery = 115.01% 120.90%						
24) SA	Decachlor...	10.255	11.658	335.2E6	223.6E6	41.113	37.600
	Spiked Amount 40.000 Recovery = 102.78% 94.00%						
	Target Compounds						
3) A	alpha-BHC	3.153	3.872	515.9E6	484.4E6	52.777	54.214
4) MA	gamma-BHC	3.500	4.351	455.6E6	432.9E6	54.355	53.362
5) MA	Heptachlor	3.817	4.979	444.5E6	435.4E6	49.387	52.041
6) B	beta-BHC	3.603	4.447	219.6E6	190.4E6	54.352	51.402
7) B	delta-BHC	4.064	4.880	414.3E6	409.6E6	50.407	55.235
8) MB	Aldrin	4.438	5.466	433.3E6	420.7E6	49.515	51.882
9) B	Heptachlo...	5.204	6.329	390.4E6	378.7E6	51.183	50.915
10) B	gamma-Chl...	5.386	6.628	395.0E6	378.2E6	53.418	51.602
11) B	alpha-Chl...	5.568	6.861	399.2E6	364.6E6	52.114	50.133
12) A	Endosulfan I	5.752	6.966	416.3E6	356.3E6	49.954	51.077
13) B	4,4'-DDE	5.693	7.119	371.7E6	380.9E6	61.172	54.983
14) MA	Dieldrin	6.092	7.414	421.3E6	384.5E6	54.464	53.107
15) MA	Endrin	6.431	7.934	387.4E6	340.5E6	53.756	52.253
16) A	4,4'-DDD	6.570	8.094	331.2E6	308.2E6	58.075	52.708
17) B	Endosulfa...	6.769	8.293	381.6E6	332.8E6	54.383	51.235
18) MA	4,4'-DDT	6.998	8.638	254.1E6	277.5E6	45.953	55.478
19) B	Endrin Al...	7.404	8.871	316.8E6	249.5E6	53.489m	47.903
20) B	Endosulfa...	8.101	9.346	340.5E6	271.4E6	56.456	50.486
21) A	Methoxychlor	7.809	9.846	155.0E6	140.6E6	50.111m	49.602
22)	Mirex	7.999	10.161	327.7E6	221.7E6	50.921	45.152
23) B	Endrin Ke...	8.563	10.205	406.4E6	307.8E6	58.042	53.351

SemiQuant Compounds - Not Calibrated on this Instrument

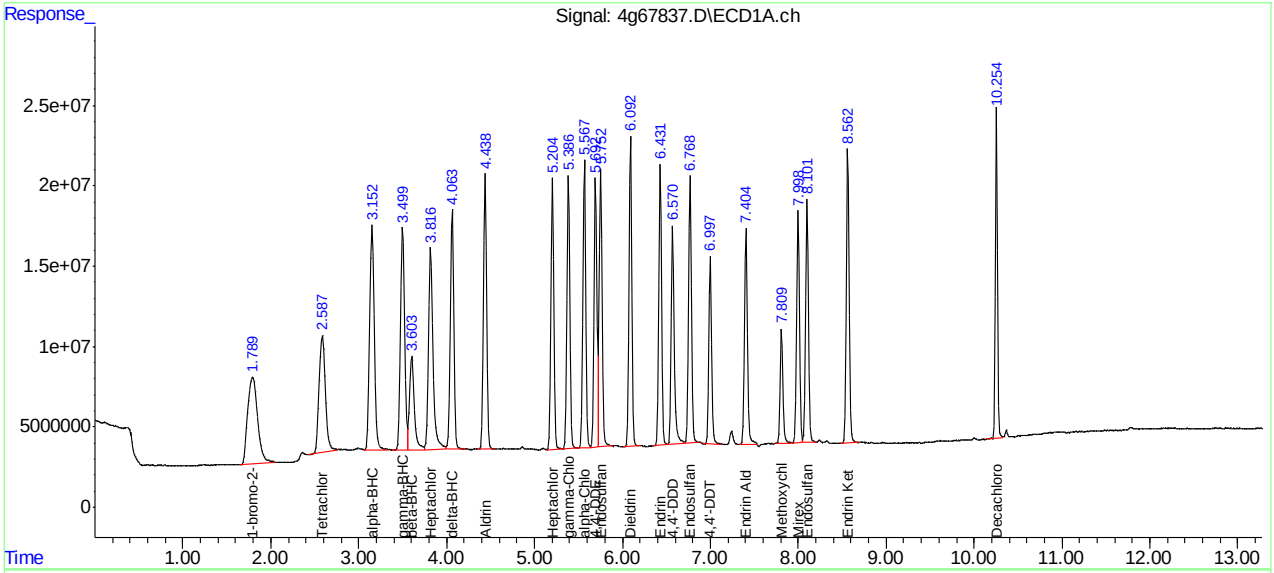
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

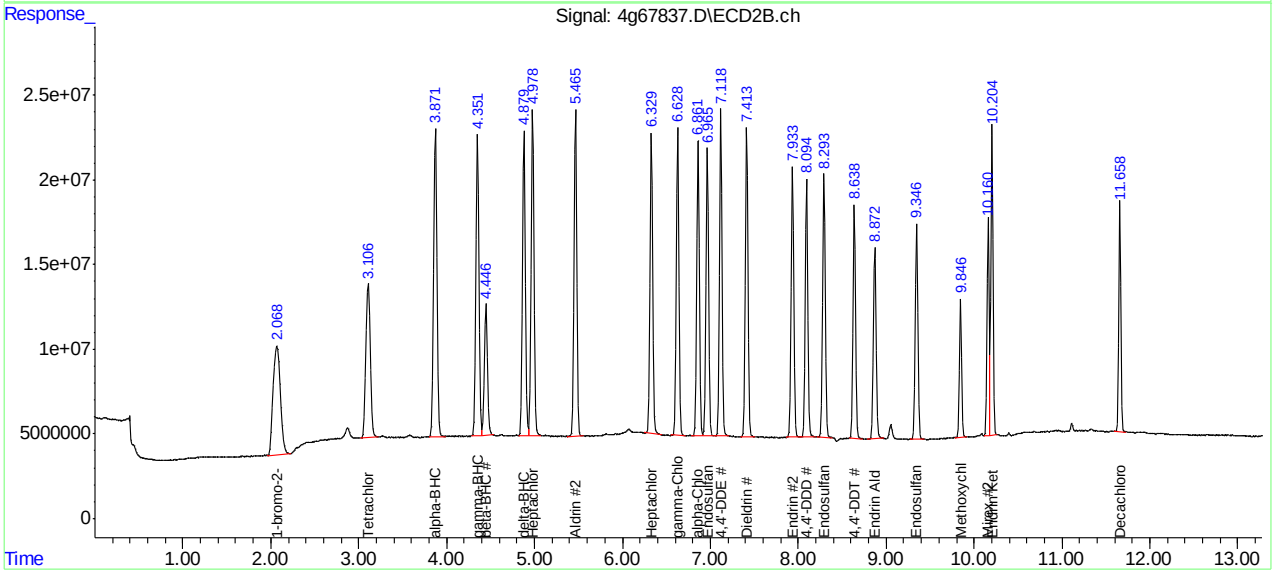
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67837.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 15:41	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

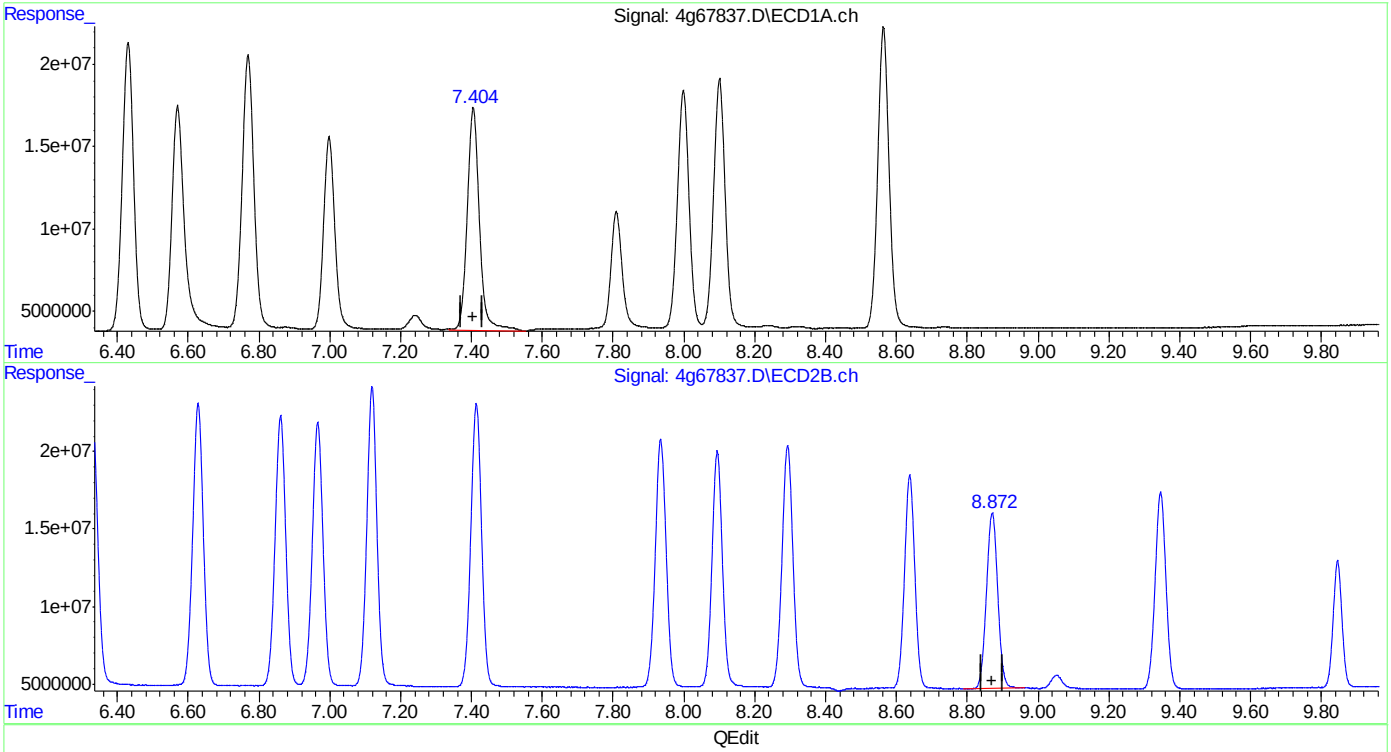
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin aldehyde	7421-93-4	1	7.40	Poorly defined baseline
Methoxychlor	72-43-5	1	7.81	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:43:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.405min 54.582 PPB
response 323282330

(19) Endrin Aldehyde #2 (B)
8.871min 47.903 PPB
response 249500342

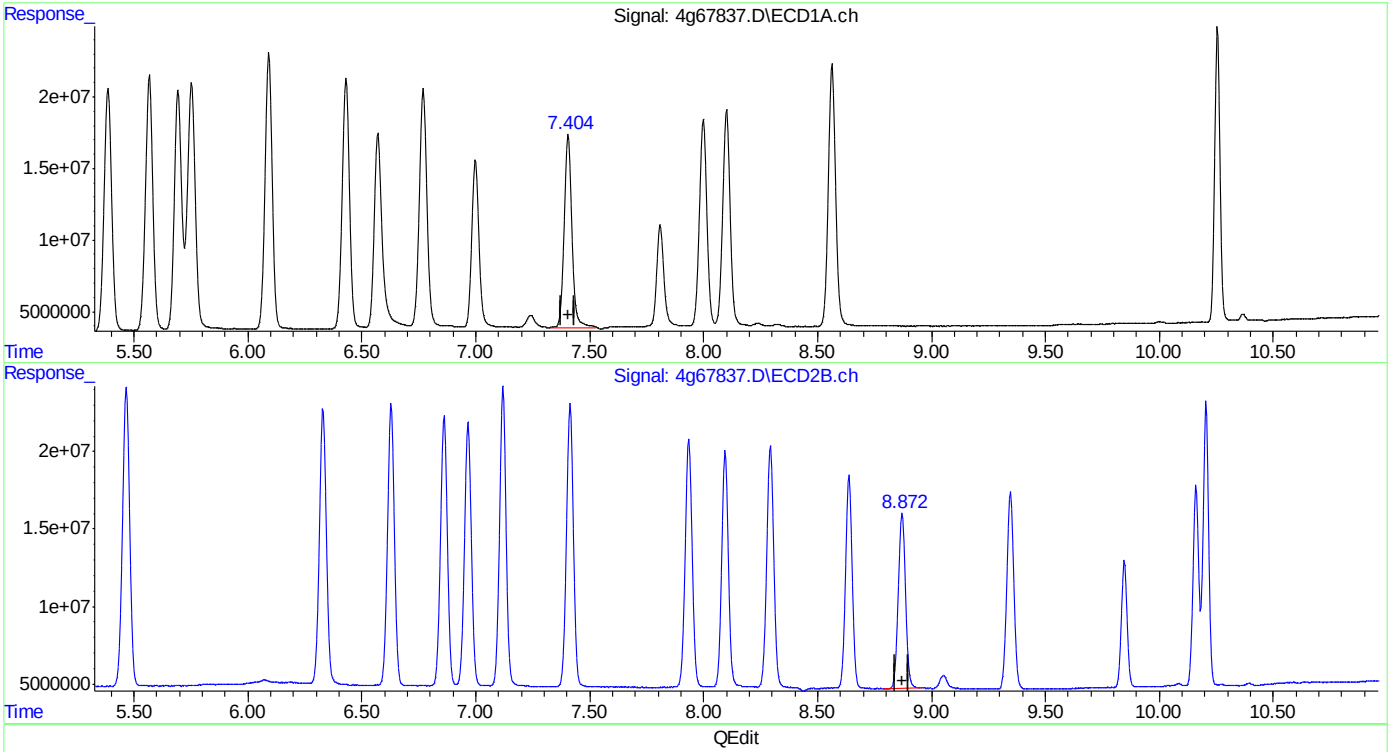
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:43:33 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:43:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.404min 53.489 PPB m
response 316808768

(19) Endrin Aldehyde #2 (B)
8.871min 47.903 PPB
response 249500342

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:43:40 2016 RPT1

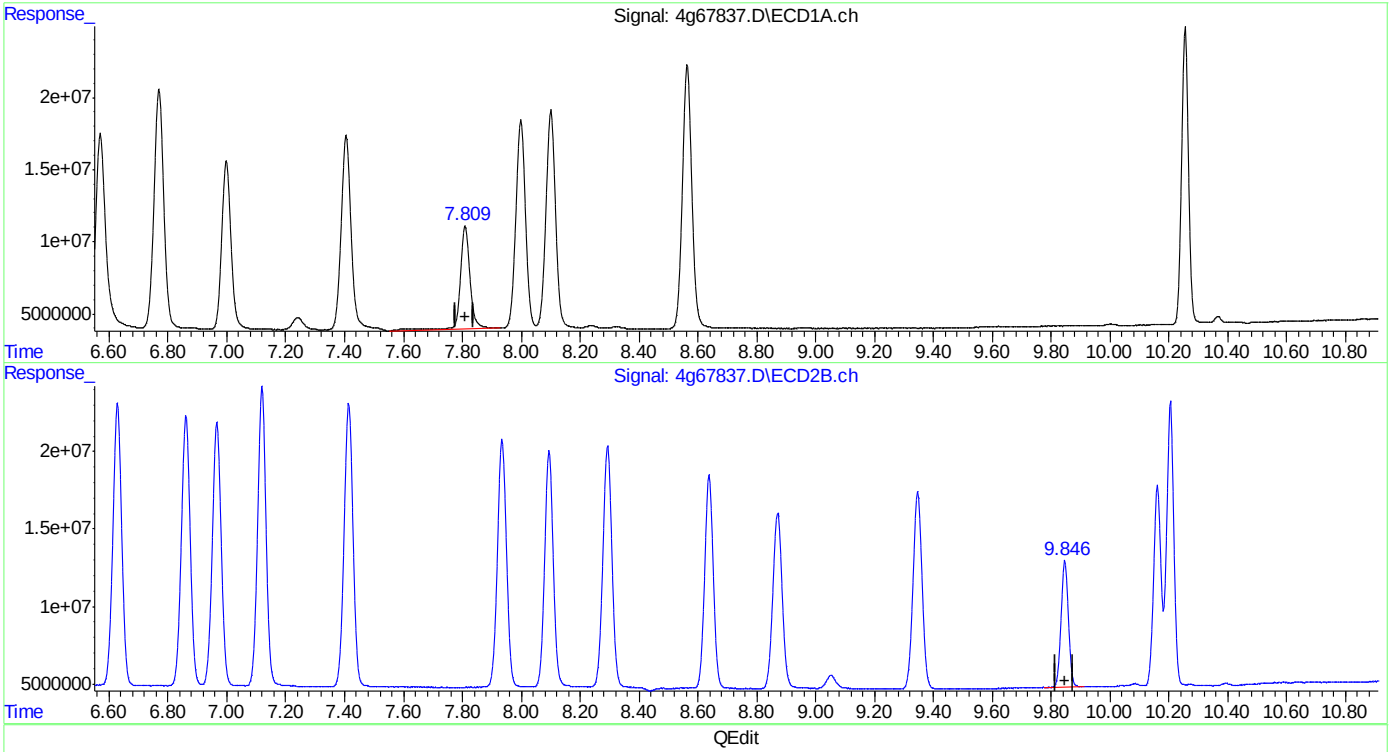
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:43:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.809min 54.026 PPB
response 167139311

(21) Methoxychlor #2 (A)
9.846min 49.602 PPB
response 140581662

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:43:43 2016 RPT1

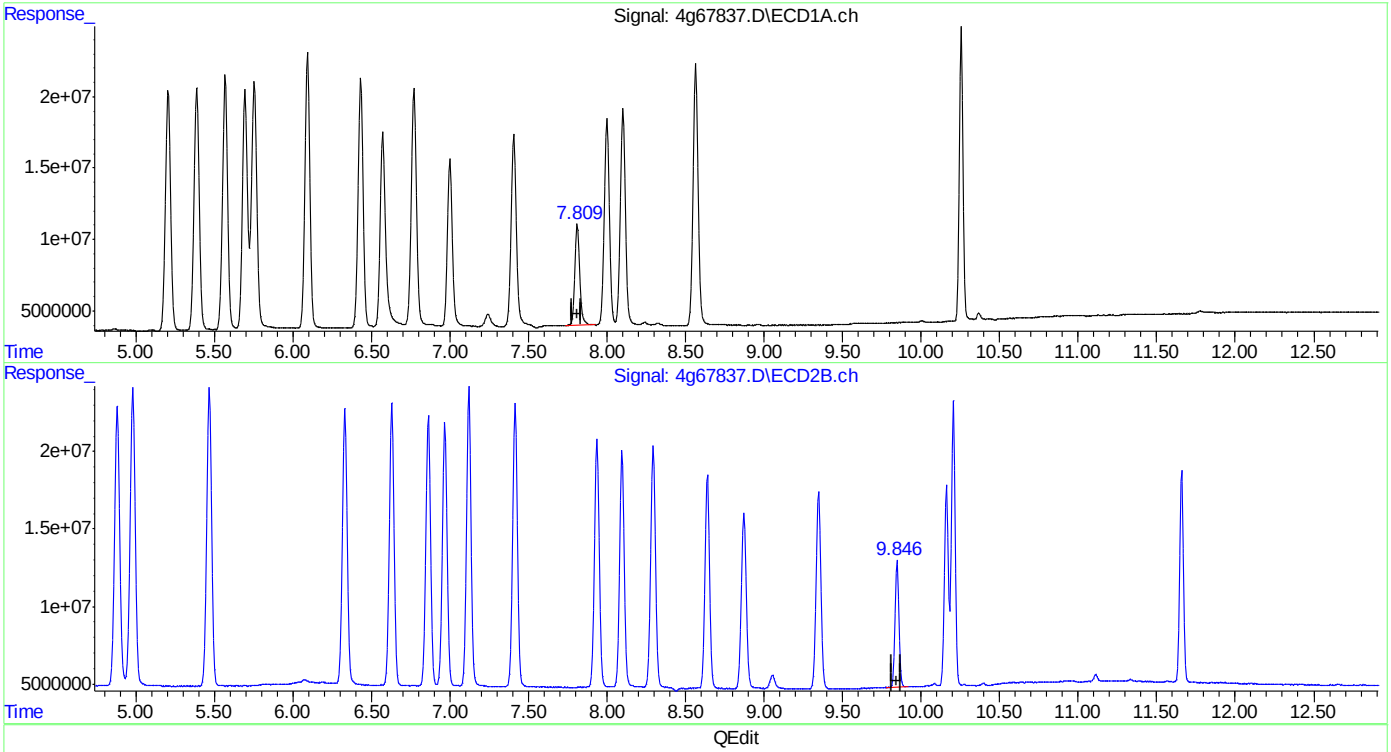
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:43:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.809min 50.111 PPB m
response 155027769

(21) Methoxychlor #2 (A)
9.846min 49.602 PPB
response 140581662

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:43:51 2016 RPT1

SGS ACCUTEST JC19423

4G67838.D

Manual Integrations APPROVED (compounds with "m" flag)

Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:57 pm
Operator : dharas
Sample : ic1778-75
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.793	2.070	415.3E6	374.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.584	3.106	532.1E6	478.6E6	68.652	70.660
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	171.63%#	176.65%#
24) SA	Decachlor...	10.253	11.658	521.7E6	338.4E6	64.623	56.282
	Spiked Amount 40.000			Recovery	=	161.56%	140.70%
	Target Compounds						
3) A	alpha-BHC	3.152	3.872	817.5E6	758.2E6	84.477	83.940
4) MA	gamma-BHC	3.498	4.350	721.8E6	676.4E6	86.994	82.490
5) MA	Heptachlor	3.816	4.978	705.9E6	679.9E6	79.227	80.393
6) B	beta-BHC	3.600	4.447	340.5E6	290.2E6	85.114	77.493
7) B	delta-BHC	4.063	4.879	654.8E6	618.2E6	80.470	82.470
8) MB	Aldrin	4.438	5.465	688.8E6	655.6E6	79.512	79.980
9) B	Heptachlo...	5.203	6.329	611.8E6	583.9E6	81.021	77.666
10) B	gamma-Chl...	5.385	6.628	627.3E6	586.9E6	85.701	79.228
11) B	alpha-Chl...	5.566	6.860	627.7E6	546.6E6	82.774	74.357
12) A	Endosulfan I	5.752	6.965	654.1E6	549.7E6	79.288	77.957
13) B	4,4'-DDE	5.691	7.118	594.4E6	591.4E6	98.809	84.449
14) MA	Dieldrin	6.091	7.413	670.7E6	597.8E6	87.574	81.686
15) MA	Endrin	6.429	7.935	623.1E6	528.5E6	87.351	80.243
16) A	4,4'-DDD	6.567	8.094	540.1E6	479.0E6	95.654	81.051
17) B	Endosulfa...	6.767	8.292	619.8E6	511.9E6	89.216	77.947
18) MA	4,4'-DDT	6.997	8.637	426.8E6	439.5E6	71.798	86.926
19) B	Endrin Al...	7.404	8.870	498.5E6	373.7E6	85.019	70.978
20) B	Endosulfa...	8.099	9.346	534.6E6	415.5E6	89.535	76.458
21) A	Methoxychlor	7.807	9.846	246.7E6	219.0E6	80.541	76.438
22)	Mirex	7.997	10.160	503.1E6	336.5E6	78.969	67.792
23) B	Endrin Ke...	8.560	10.204	641.5E6	476.5E6	92.558m	81.713

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.23

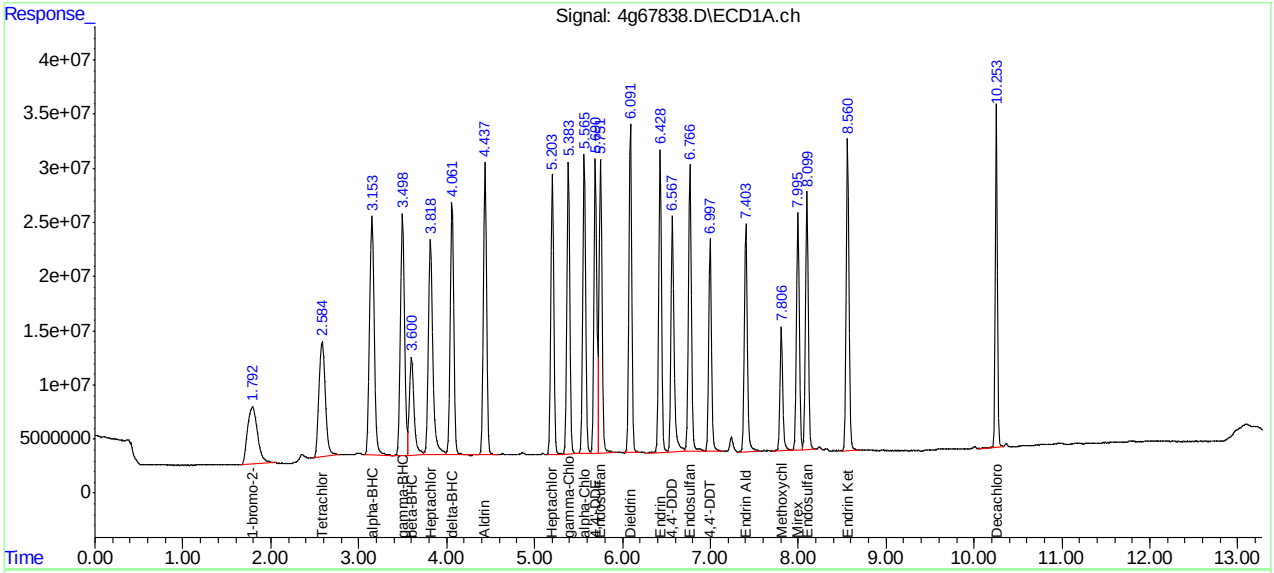
9

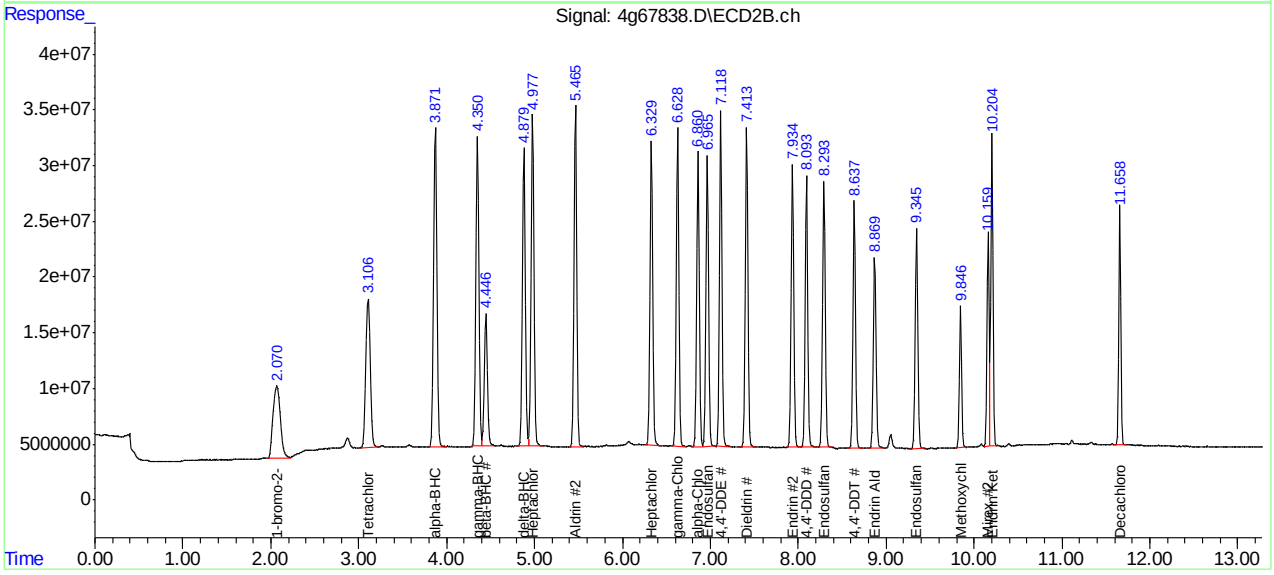
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:57 pm
Operator : dharas
Sample : ic1778-75
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67838.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 15:57	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

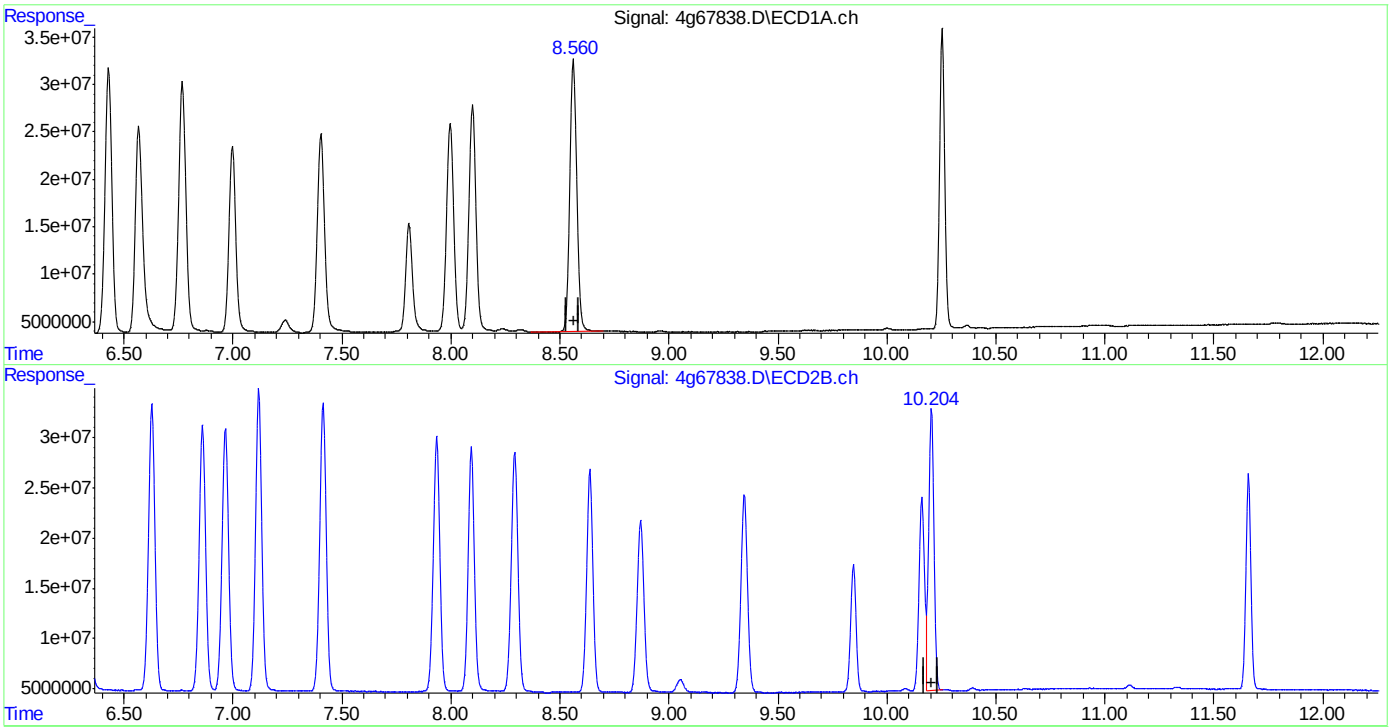
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin ketone	53494-70-5	1	8.56	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:57 pm
Operator : dharas
Sample : ic1778-75
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:51:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(23) Endrin Ketone (B)
8.561min 93.275 PPB
response 646481914

(23) Endrin Ketone #2 (B)
10.204min 81.713 PPB
response 476495180

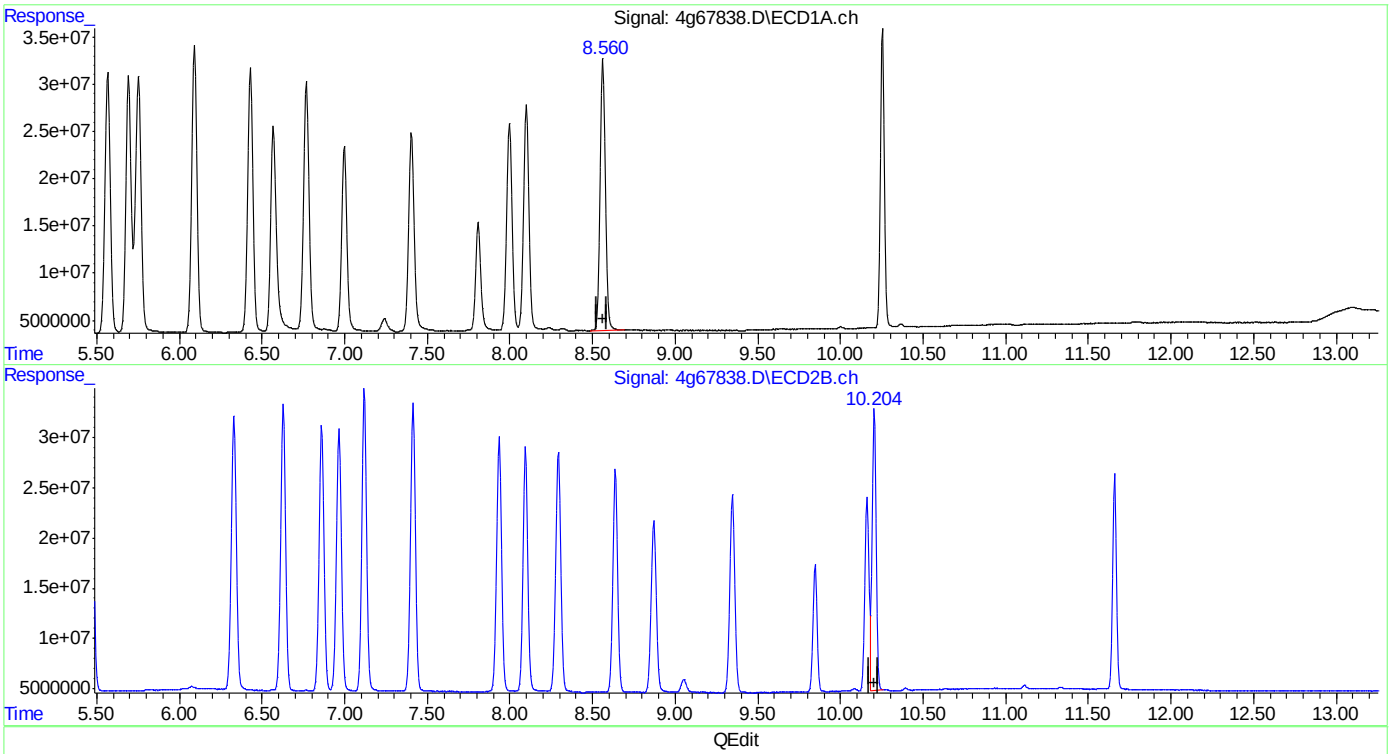
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:57 pm
Operator : dharas
Sample : ic1778-75
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:51:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(23) Endrin Ketone (B)
8.560min 92.558 PPB m
response 641511204

(23) Endrin Ketone #2 (B)
10.204min 81.713 PPB
response 476495180

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:12 pm
Operator : dharas
Sample : ic1778-100
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:20:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.800	2.071	428.6E6	373.8E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.590	3.108	762.3E6	681.0E6	95.315	100.796	
	Spiked Amount 40.000 Range 30 - 150 Recovery = 238.29%# 251.99%#							
24) SA	Decachlor...	10.254	11.659	715.3E6	451.9E6	85.866	75.353	
	Spiked Amount 40.000 Recovery = 214.67% 188.38%							
	Target Compounds							
3) A	alpha-BHC	3.155	3.873	1132.1E6	1051.3E6	113.363	116.683	
4) MA	gamma-BHC	3.500	4.351	998.9E6	936.7E6	116.662	114.526	
5) MA	Heptachlor	3.818	4.980	986.2E6	935.0E6	107.263	110.834	
6) B	beta-BHC	3.602	4.448	460.1E6	397.0E6	111.447	106.286	
7) B	delta-BHC	4.066	4.879	918.0E6	897.8E6	109.319	120.062	
8) MB	Aldrin	4.440	5.466	955.0E6	902.8E6	106.828	110.419	
9) B	Heptachlo...	5.205	6.331	856.9E6	801.6E6	109.968	106.889	
10) B	gamma-Chl...	5.388	6.629	879.8E6	808.8E6	116.475	109.453	
11) B	alpha-Chl...	5.568	6.861	874.3E6	777.6E6	111.722	106.037	
12) A	Endosulfan I	5.753	6.967	905.6E6	755.8E6	106.366	107.447	
13) B	4,4'-DDE	5.692	7.120	838.9E6	816.1E6	135.140	116.821	
14) MA	Dieldrin	6.092	7.414	940.0E6	826.2E6	118.944	113.170	
15) MA	Endrin	6.431	7.935	864.5E6	730.8E6	117.437	111.235	
16) A	4,4'-DDD	6.568	8.095	754.7E6	662.2E6	129.537	112.316	
17) B	Endosulfa...	6.769	8.293	858.5E6	705.6E6	119.744	107.729	
18) MA	4,4'-DDT	6.998	8.638	618.5E6	617.0E6	94.482	122.335	#
19) B	Endrin Al...	7.404	8.871	682.4E6	526.9E6	112.778	100.329	
20) B	Endosulfa...	8.100	9.347	739.7E6	568.8E6	120.051	104.922	
21) A	Methoxychlor	7.809	9.846	344.1E6	301.5E6	108.887	105.483	
22)	Mirex	7.999	10.161	682.7E6	455.3E6	103.844	91.945	
23) B	Endrin Ke...	8.562	10.204	879.5E6	650.7E6	122.964	111.871	

SemiQuant Compounds - Not Calibrated on this Instrument

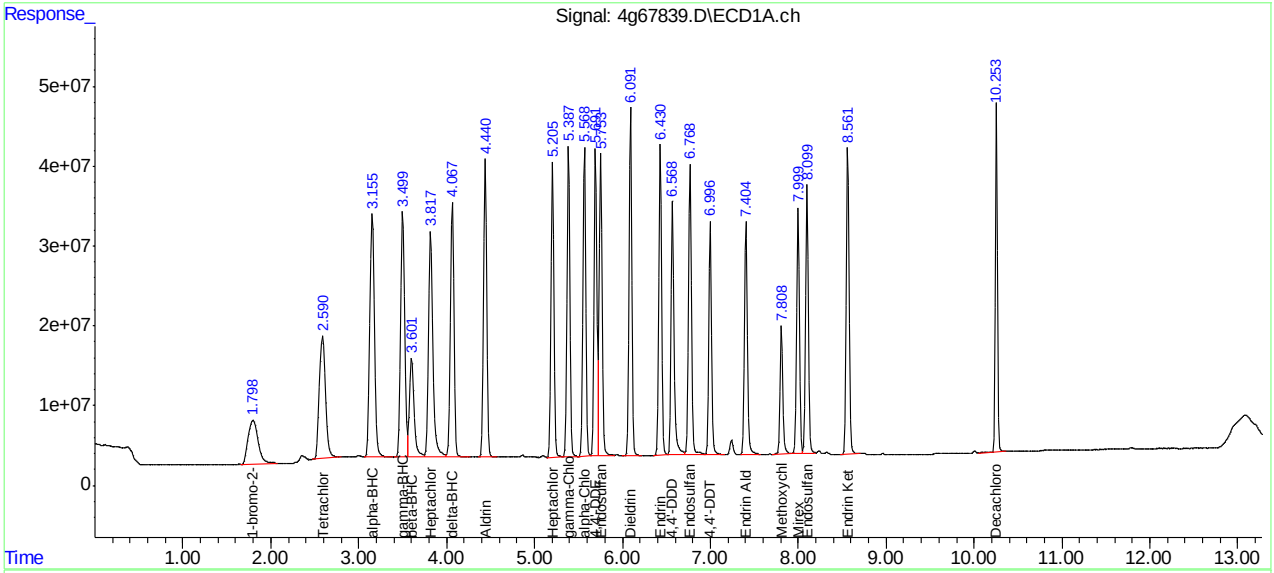
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

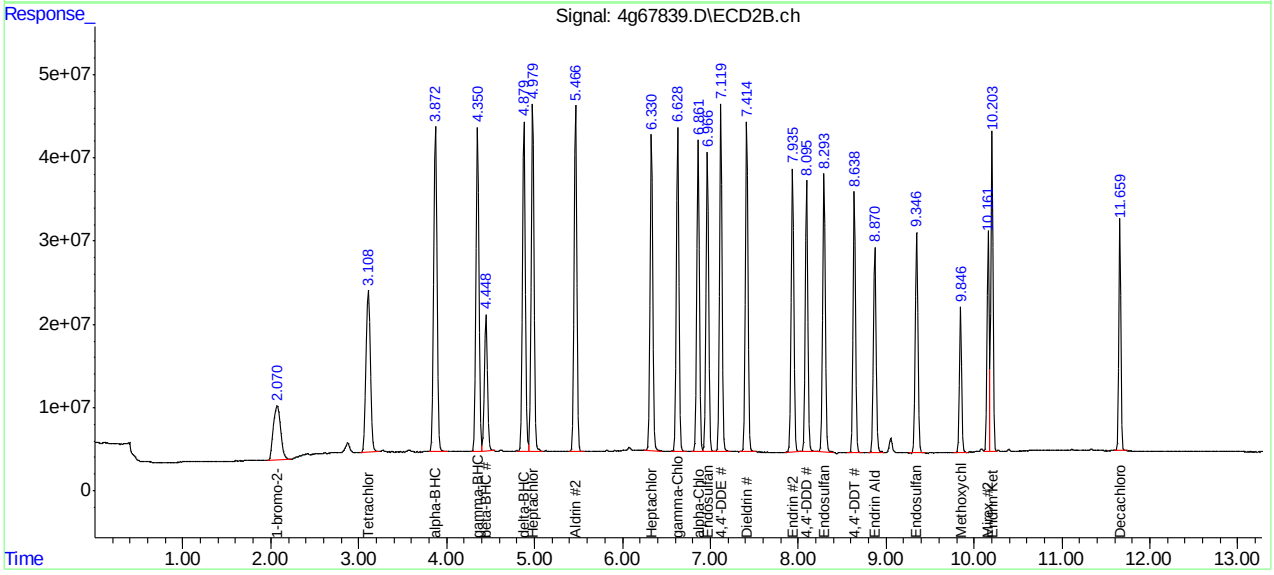
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:12 pm
Operator : dharas
Sample : ic1778-100
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:20:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:27 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:09:54 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
31) I	1-bromo-2...	1.803	2.075	424.0E6	370.6E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
32)	Chlordane...	3.963	4.768	119.9E6	138.0E6	549.150	581.233
33)	Chlordane...	4.595	5.669	153.9E6	129.0E6	509.420	572.820
34)	Chlordane...	5.389	6.629	518.8E6	474.6E6	575.261	553.319
35)	Chlordane...	5.561	6.862	842.6E6	770.3E6	579.366	552.743m
36)	Chlordane...	6.682	8.375	127.3E6	123.2E6	598.874	585.066
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

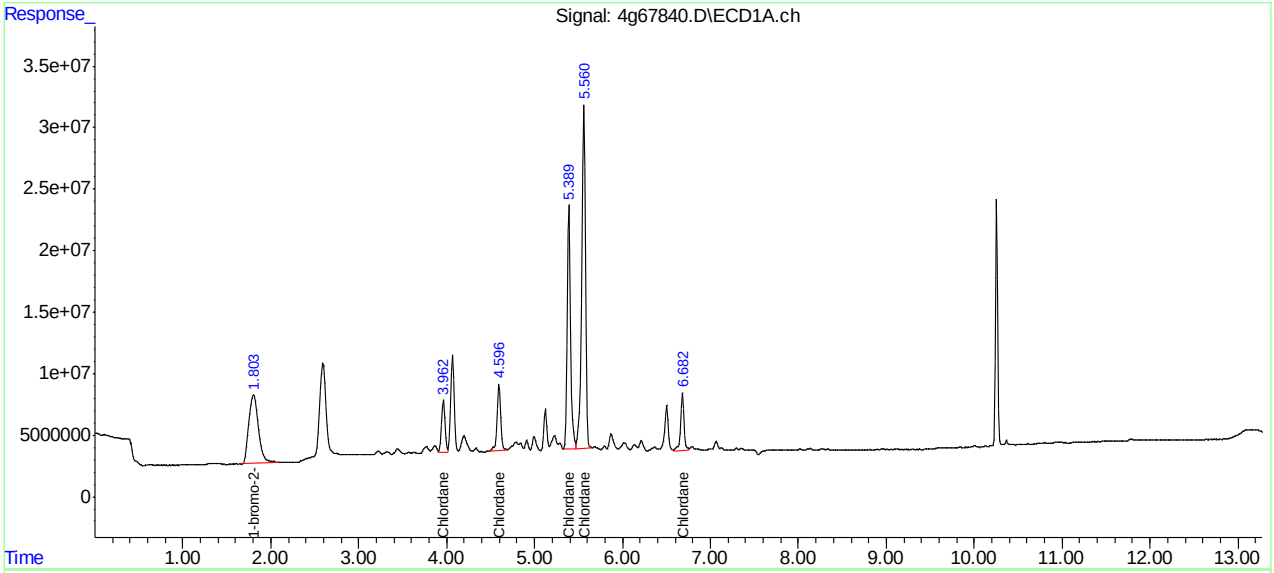
9.6.25
9

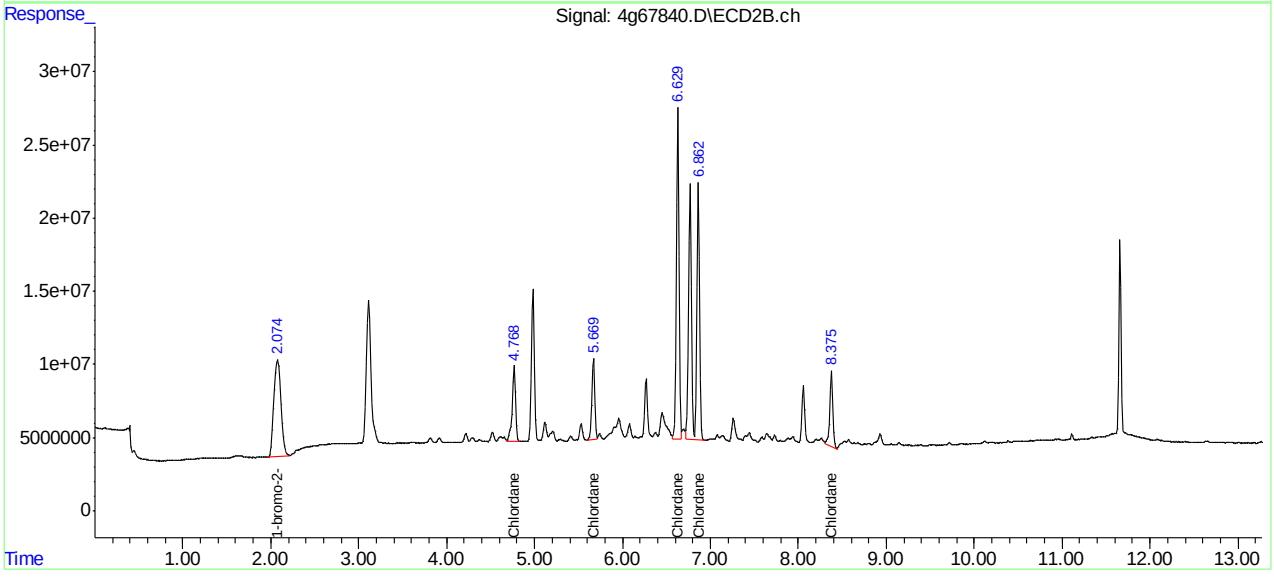
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:27 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:09:54 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67840.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 16:27	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

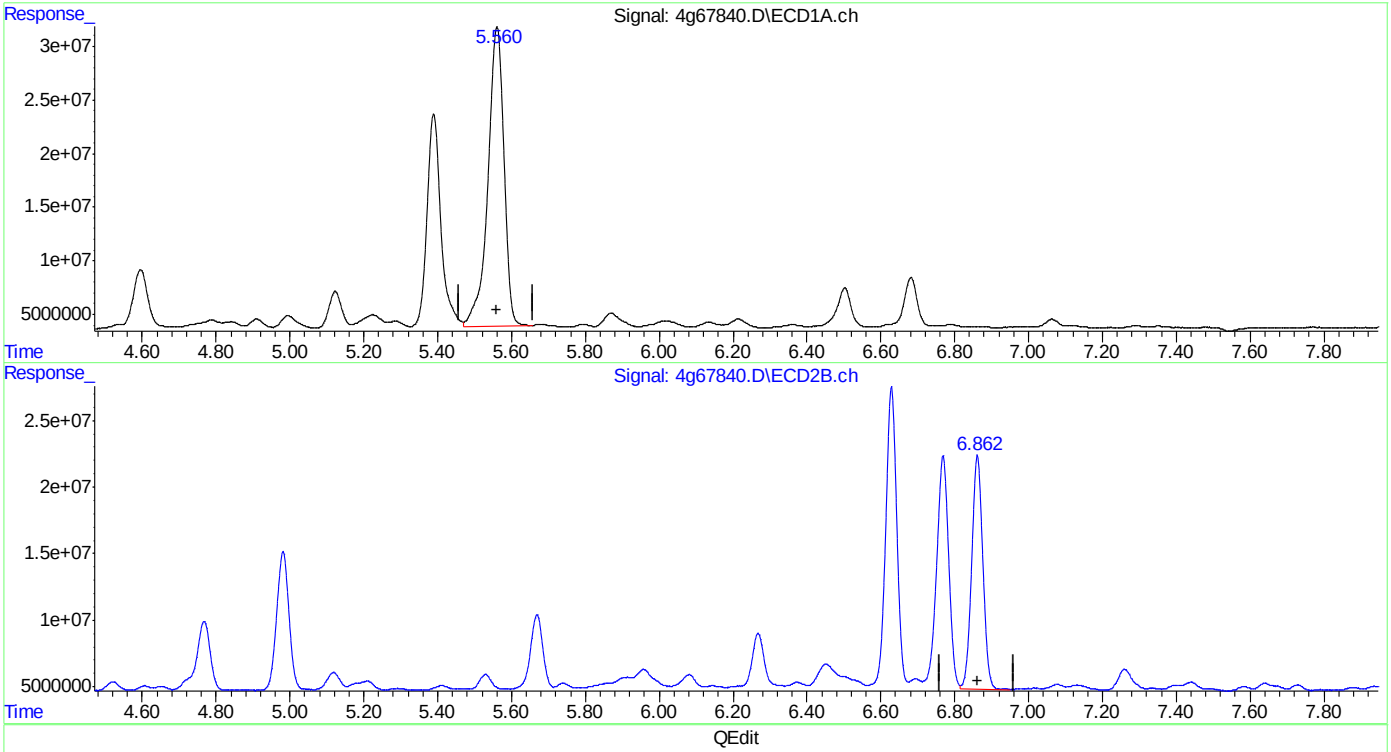
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Chlordane-D		2	6.86	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.66	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:27 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:09:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:09:54 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(35) Chlordane {D}
5.561min 579.366 PPB
response 842595879

(35) Chlordane {D} #2
6.862min 264.113 PPB
response 368069999

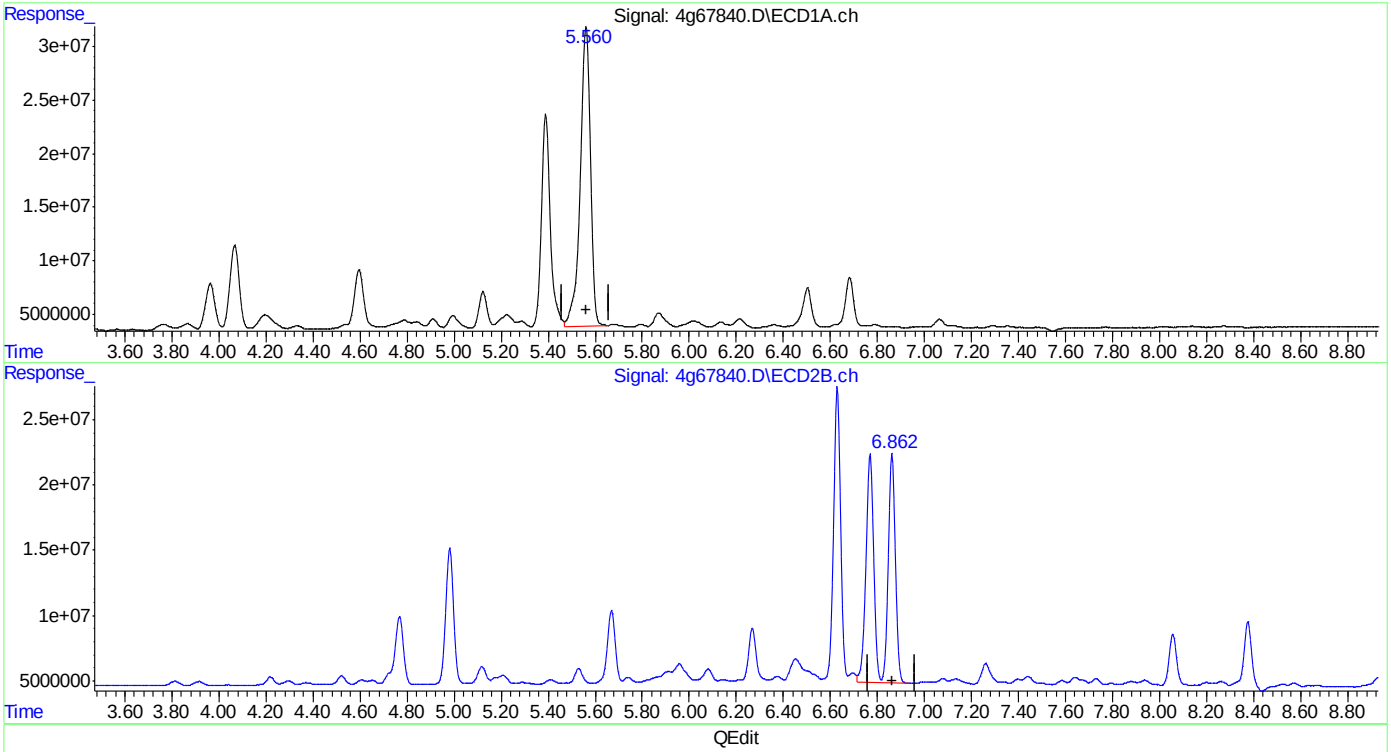
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:27 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:09:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:09:54 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(35) Chlordane {D}
5.561min 579.366 PPB
response 842595879

(35) Chlordane {D} #2
6.862min 552.743 PPB m
response 770308138

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67841.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:42 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:17:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:14:48 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
25) I	1-bromo-2...	1.797	2.074	438.0E6	383.1E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
26) L8	Toxaphene{A}	6.486	7.373	142.2E6	68329507	516.971	487.897
27) L8	Toxaphene{B}	6.756	8.261	146.0E6	80885233	511.480	467.993
28) L8	Toxaphene{C}	6.932	8.427	195.7E6	137.9E6	497.287	481.889
29) L8	Toxaphene{D}	7.293	8.870	130.7E6	81210154	544.384	453.381
30) L8	Toxaphene{E}	7.971	9.773	87027325	64276056	421.747	431.824
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

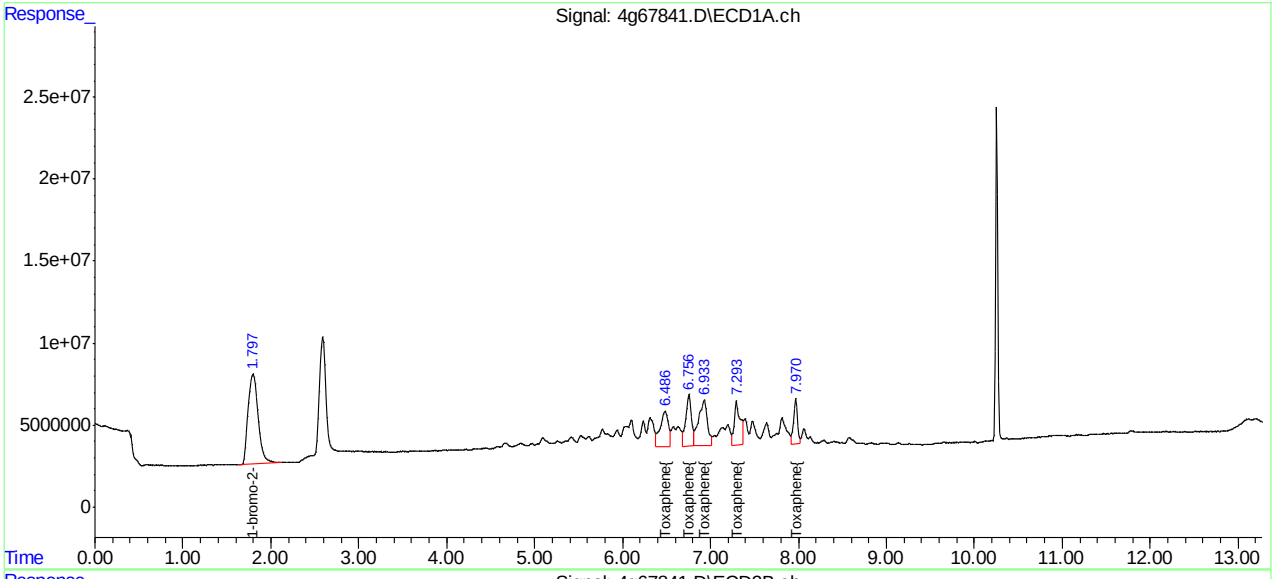
9.6.26
9

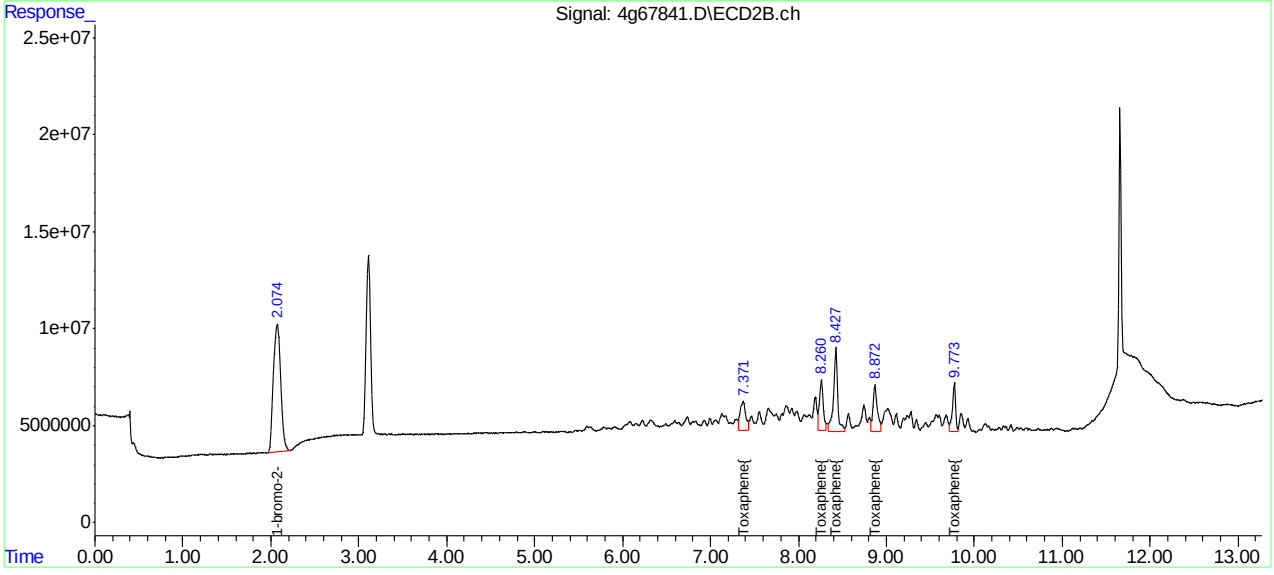
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67841.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:42 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:17:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:14:48 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67841.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 16:42	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	3.11	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.66	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:45:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.797	2.070	447.9E6	395.6E6	50.000	50.000
25) I	1-bromo-2...	1.797	2.070	447.9E6	395.6E6	50.000	50.000
31) I	1-bromo-2...	1.797	2.070	447.9E6	395.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.590	3.108	180.0E6	155.5E6	23.306m	22.318
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	58.27%	55.80%
24) SA	Decachlor...	10.254	11.658	161.3E6	117.3E6	22.161m	23.749m
	Spiked Amount 40.000			Recovery	=	55.40%	59.37%
	Target Compounds						
3) A	alpha-BHC	3.157	3.874	231.1E6	220.6E6	21.865	21.663
4) MA	gamma-BHC	3.504	4.352	211.8E6	200.5E6	22.924	22.153
5) MA	Heptachlor	3.824	4.979	210.1E6	203.5E6	24.217	21.822
6) B	beta-BHC	3.612	4.449	106.8E6	91892610	24.139	22.418
7) B	delta-BHC	4.064	4.881	189.3E6	192.9E6	22.486	22.832
8) MB	Aldrin	4.438	5.466	199.4E6	195.1E6	22.525	21.240
9) B	Heptachlo...	5.206	6.331	181.4E6	182.2E6	22.939	21.967
10) B	gamma-Chl...	5.388	6.629	187.1E6	181.9E6	23.668	22.684
11) B	alpha-Chl...	5.569	6.862	186.3E6	172.0E6	21.854	21.359
12) A	Endosulfan I	5.754	6.967	195.4E6	166.8E6	22.287	21.698
13) B	4,4'-DDE	5.699	7.121	161.7E6	182.2E6	20.456	22.688
14) MA	Dieldrin	6.093	7.414	191.9E6	182.2E6	23.091	22.721
15) MA	Endrin	6.433	7.935	181.5E6	165.6E6	22.929	23.169
16) A	4,4'-DDD	6.579	8.096	149.4E6	148.7E6	22.306	22.914
17) B	Endosulfa...	6.772	8.295	175.0E6	159.0E6	22.978	22.502
18) MA	4,4'-DDT	7.003	8.639	101.9E6	125.0E6	21.374	22.033m
19) B	Endrin Al...	7.409	8.871	161.1E6	122.6E6	25.053	22.836
20) B	Endosulfa...	8.103	9.348	158.3E6	130.1E6	22.675	22.009
21) A	Methoxychlor	7.816	9.846	66800291	67219438	22.387	21.810m
23) B	Endrin Ke...	8.567	10.205	186.3E6	142.4E6	23.077	21.947

SemiQuant Compounds - Not Calibrated on this Instrument

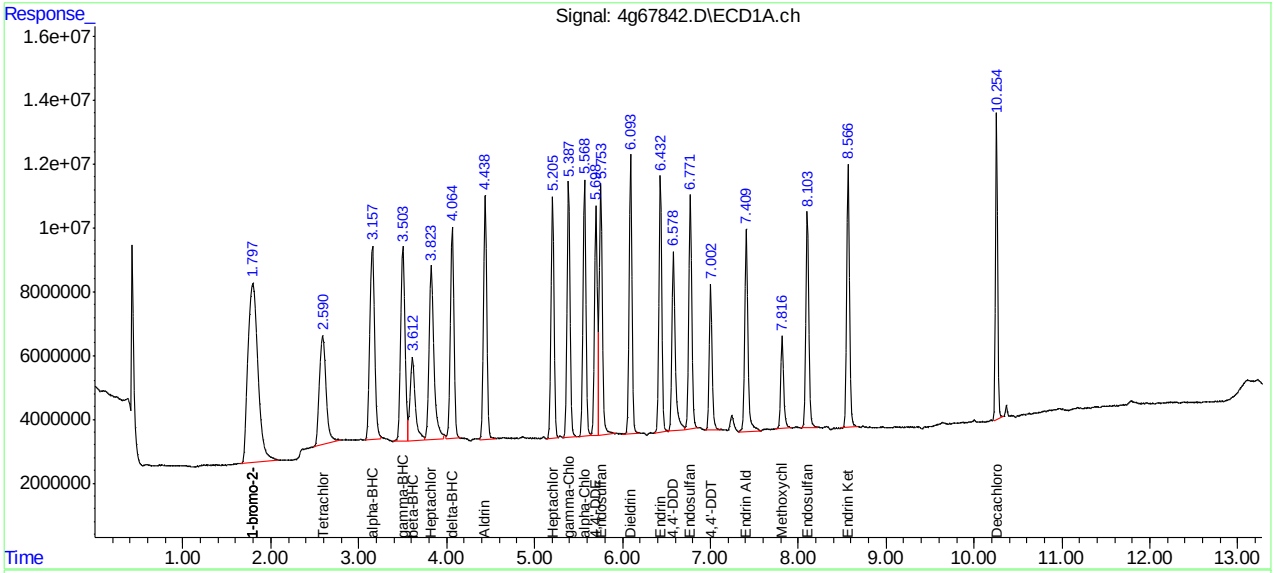
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

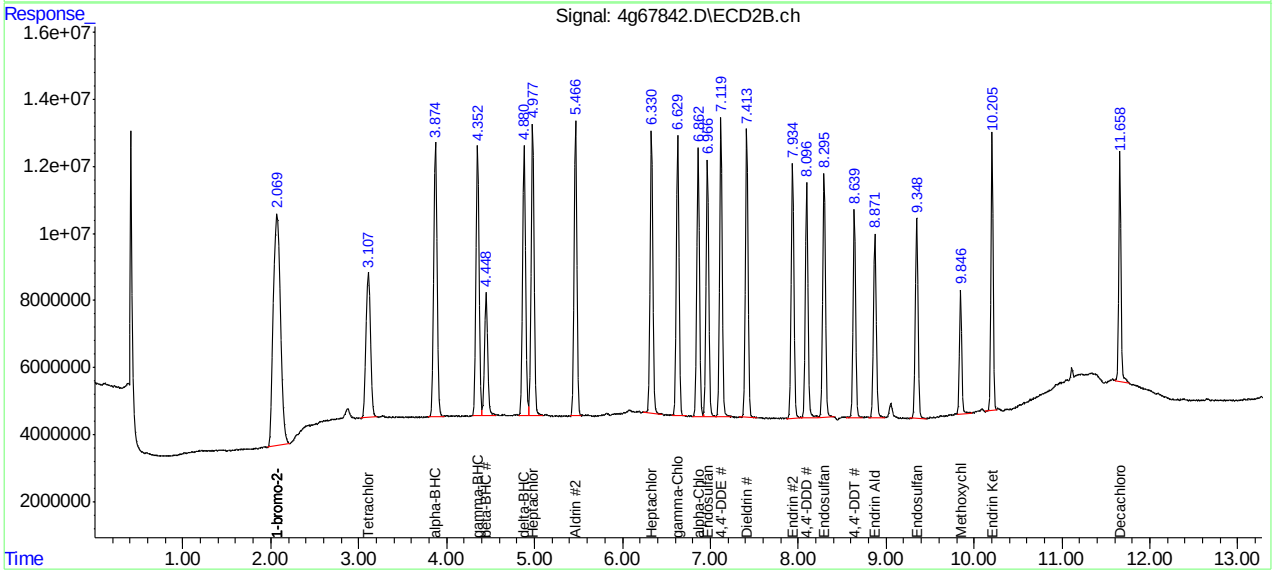
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:45:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-ICV1778	**Method:**	SW846 8081B
Lab FileID:	4G67842.D	**Analyst approved:**	05/03/16 16:01 Joseph Ravino
Injection Time:	05/02/16 16:57	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

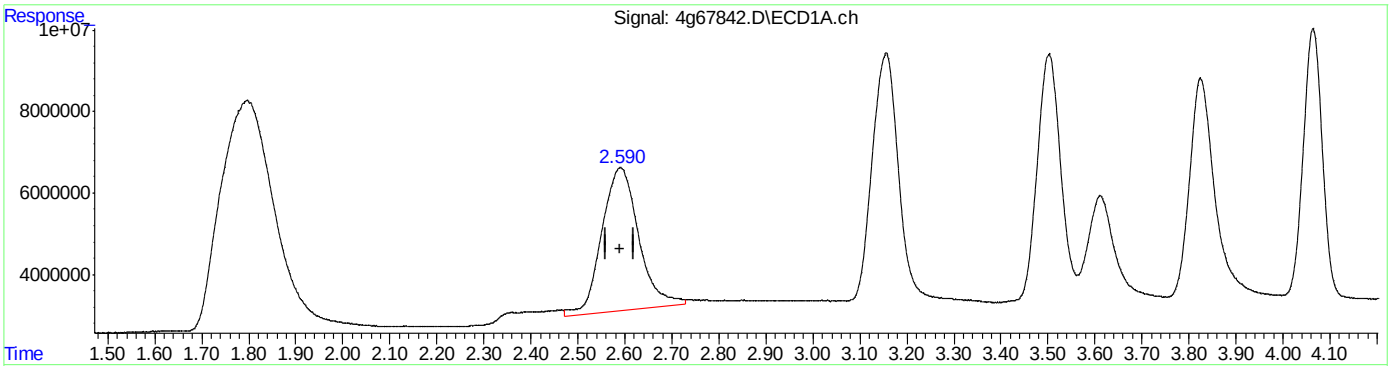
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
4,4'-DDT	50-29-3	2	8.64	Poor instrument integration
Methoxychlor	72-43-5	2	9.85	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.25	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	11.66	Poor instrument integration

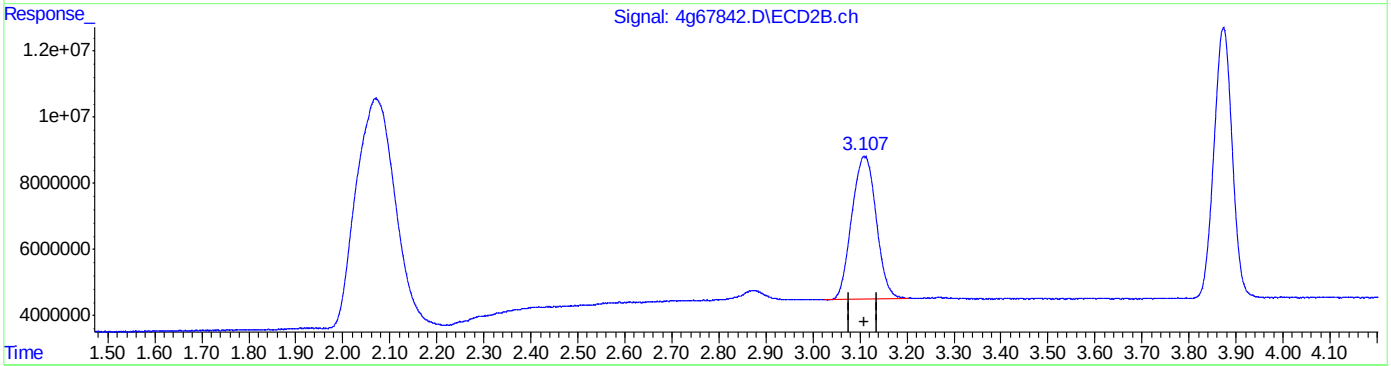
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.591min 25.008 PPB
response 193134554

(2) Tetrachloro-m-xylene #2 (SAB)
3.108min 22.318 PPB
response 155495357

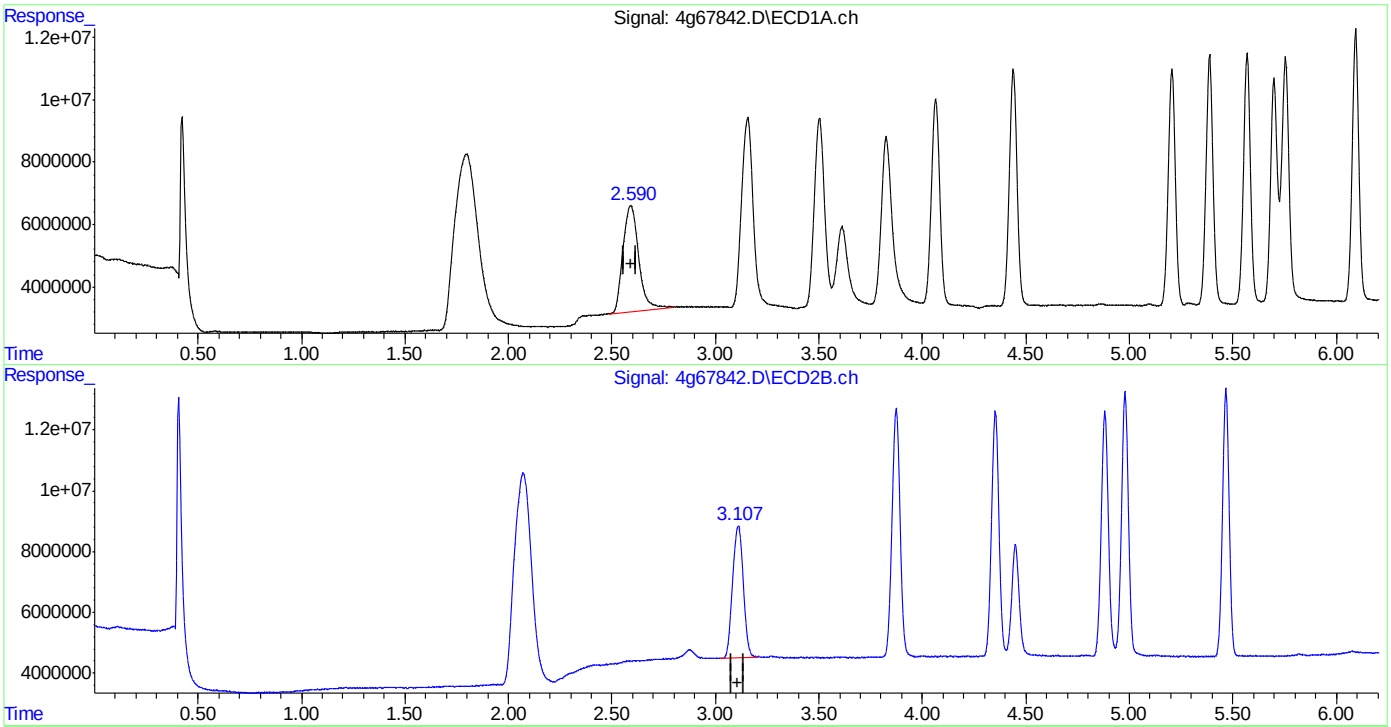
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(2) Tetrachloro-m-xylene (SAB)
2.590min 23.306 PPB m
response 179985359

(2) Tetrachloro-m-xylene #2 (SAB)
3.108min 22.318 PPB
response 155495357

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:44:02 2016 RPT1

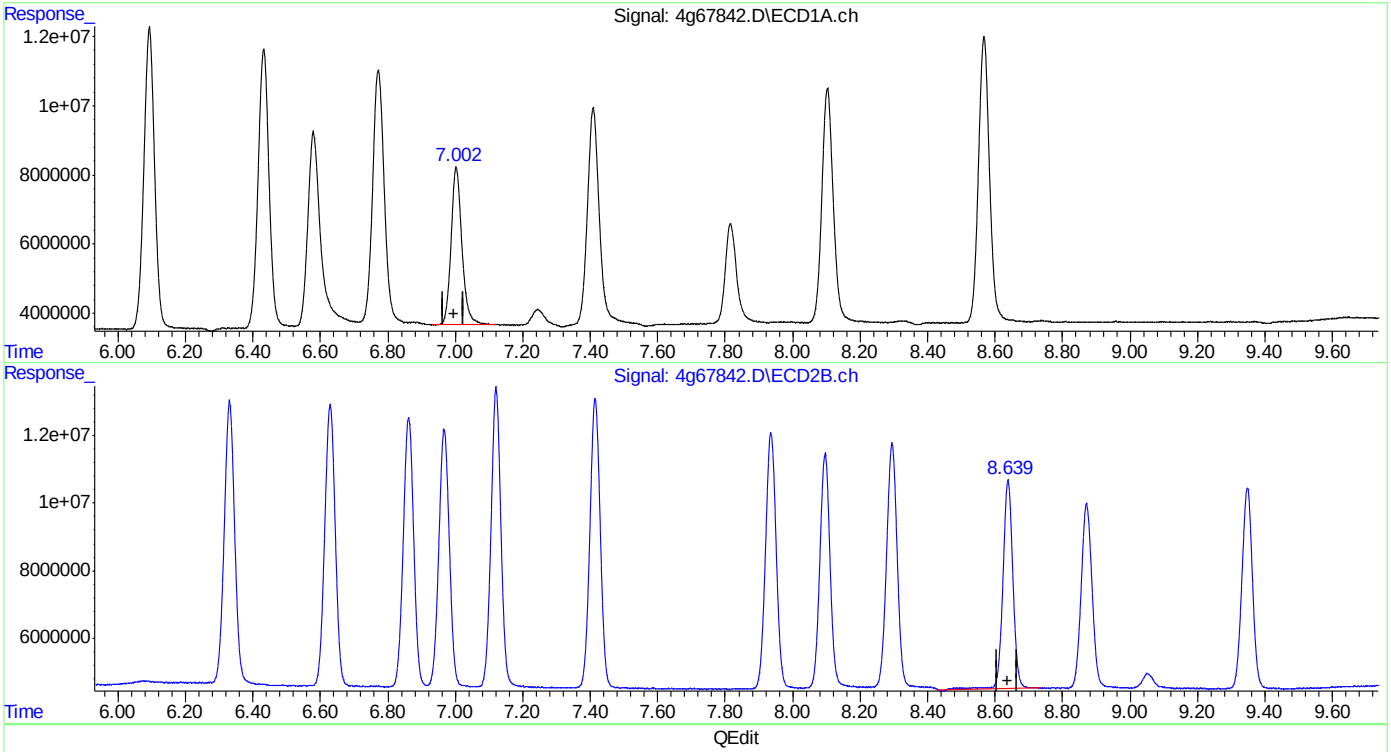
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(18) 4,4'-DDT (MA)
7.003min 21.374 PPB
response 101850530

(18) 4,4'-DDT #2 (MA)
8.639min 22.461 PPB
response 127387090

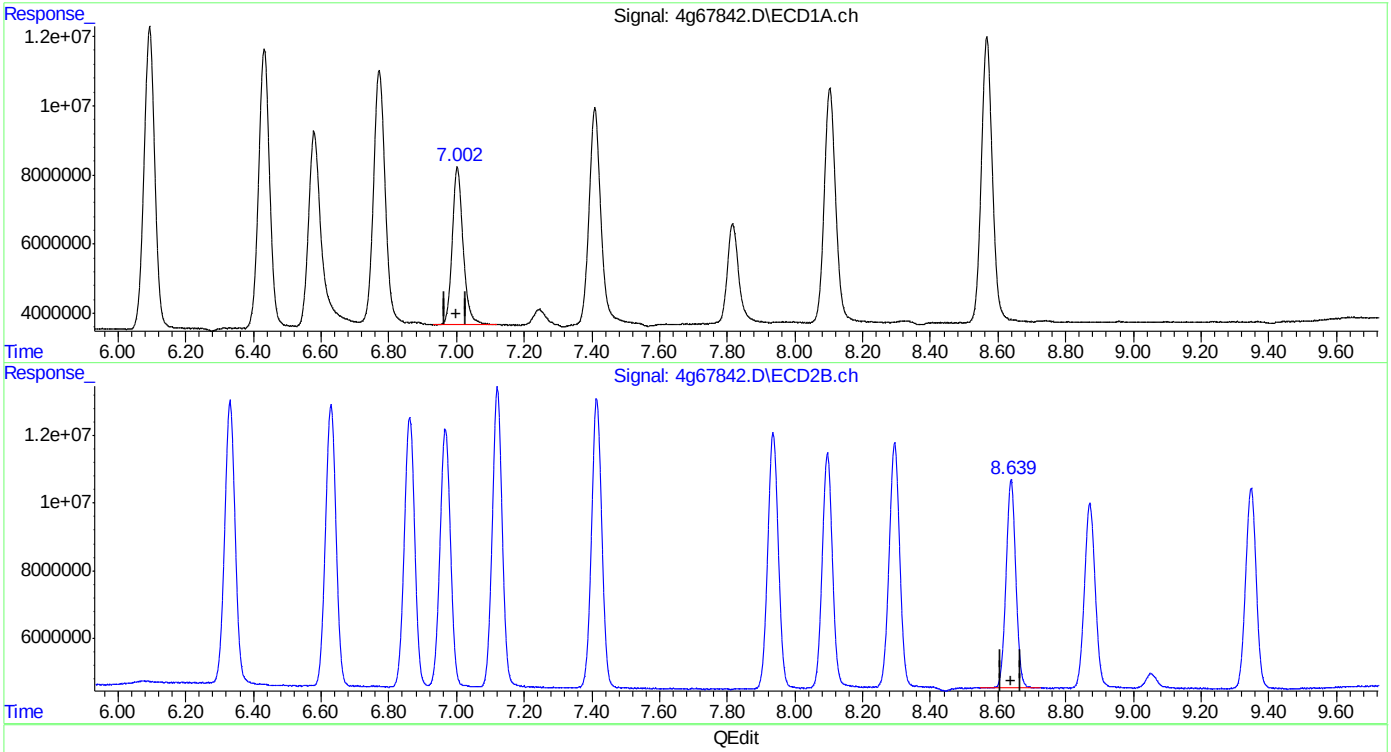
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(18) 4,4'-DDT (MA)
7.003min 21.374 PPB
response 101850530

(18) 4,4'-DDT #2 (MA)
8.639min 22.033 PPB m
response 124961944

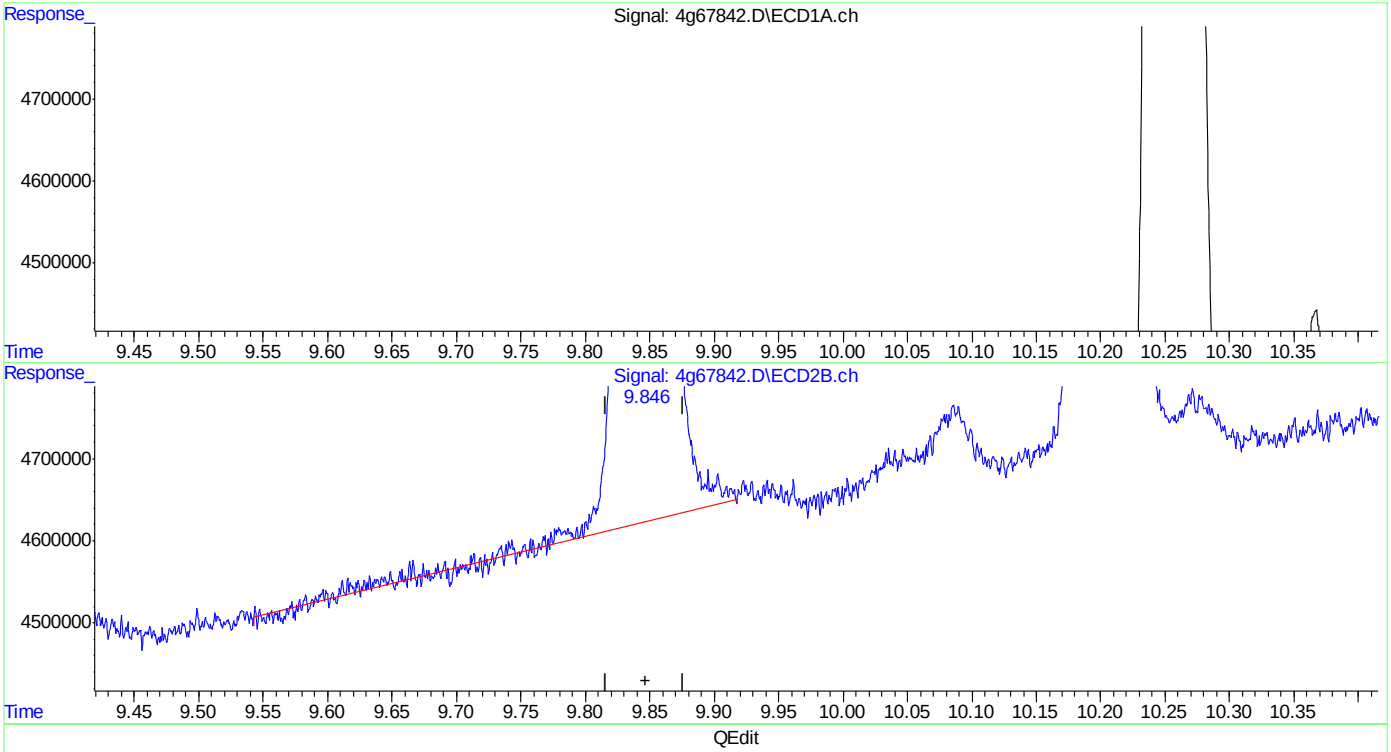
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.816min 22.387 PPB
response 66800291

(21) Methoxychlor #2 (A)
9.847min 21.412 PPB
response 65994725

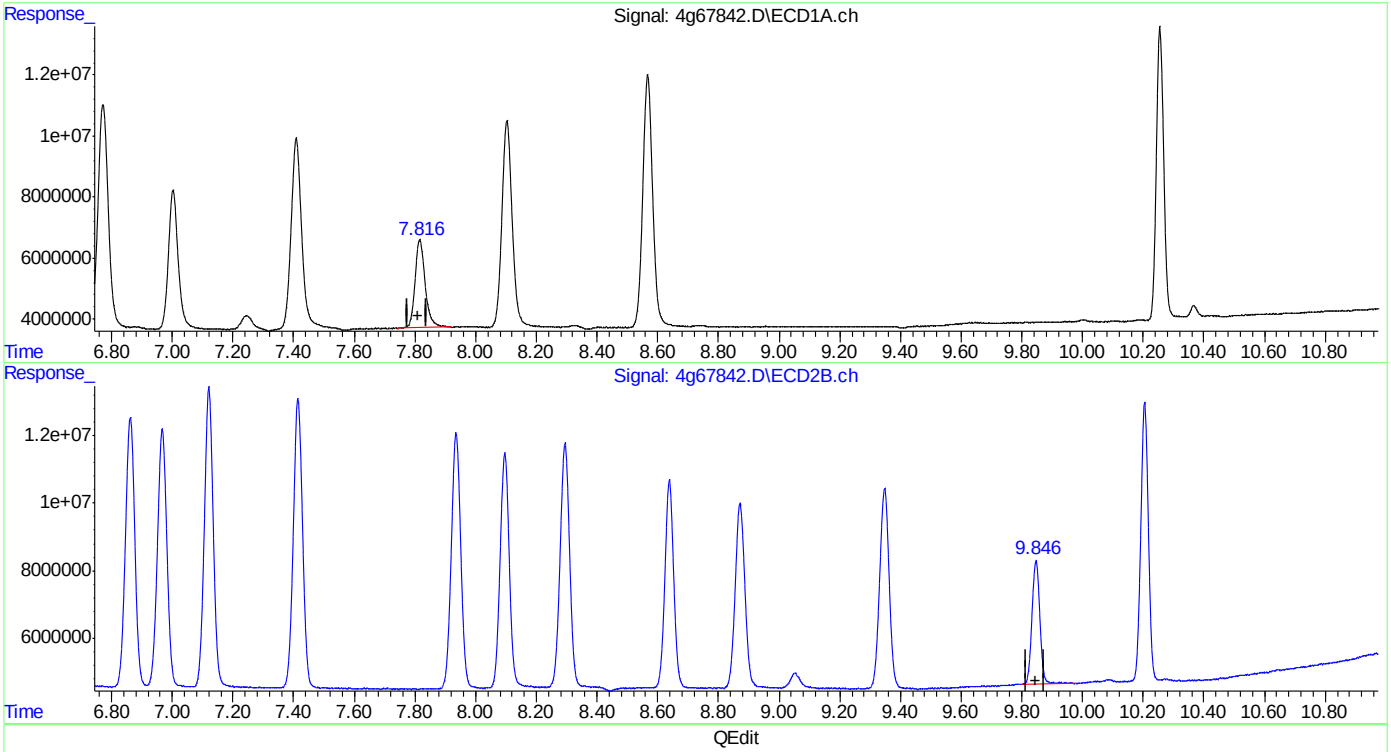
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.816min 22.387 PPB
response 66800291

(21) Methoxychlor #2 (A)
9.846min 21.810 PPB m
response 67219438

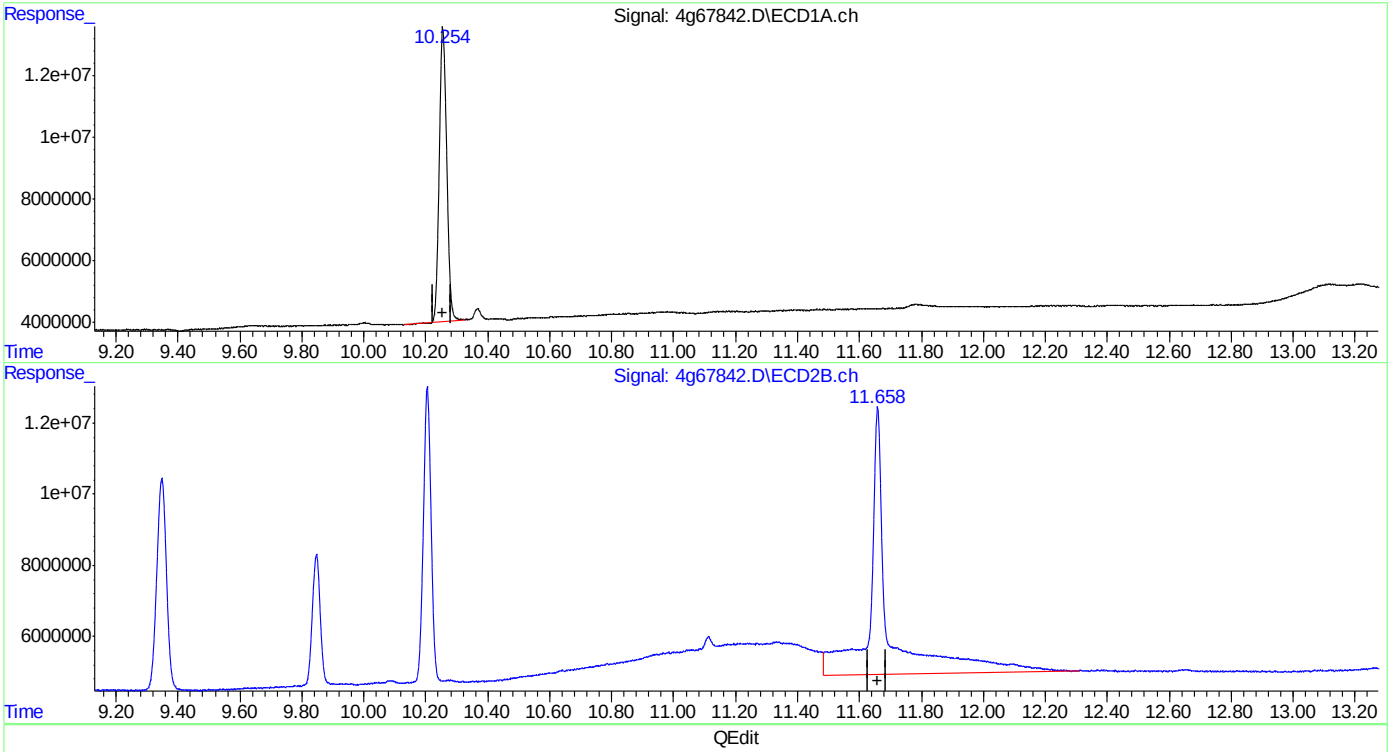
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:44:44 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.255min 21.851 PPB
response 159017875

(24) Decachlorobiphenyl #2 (SA)
11.659min 65.026 PPB
response 321299025

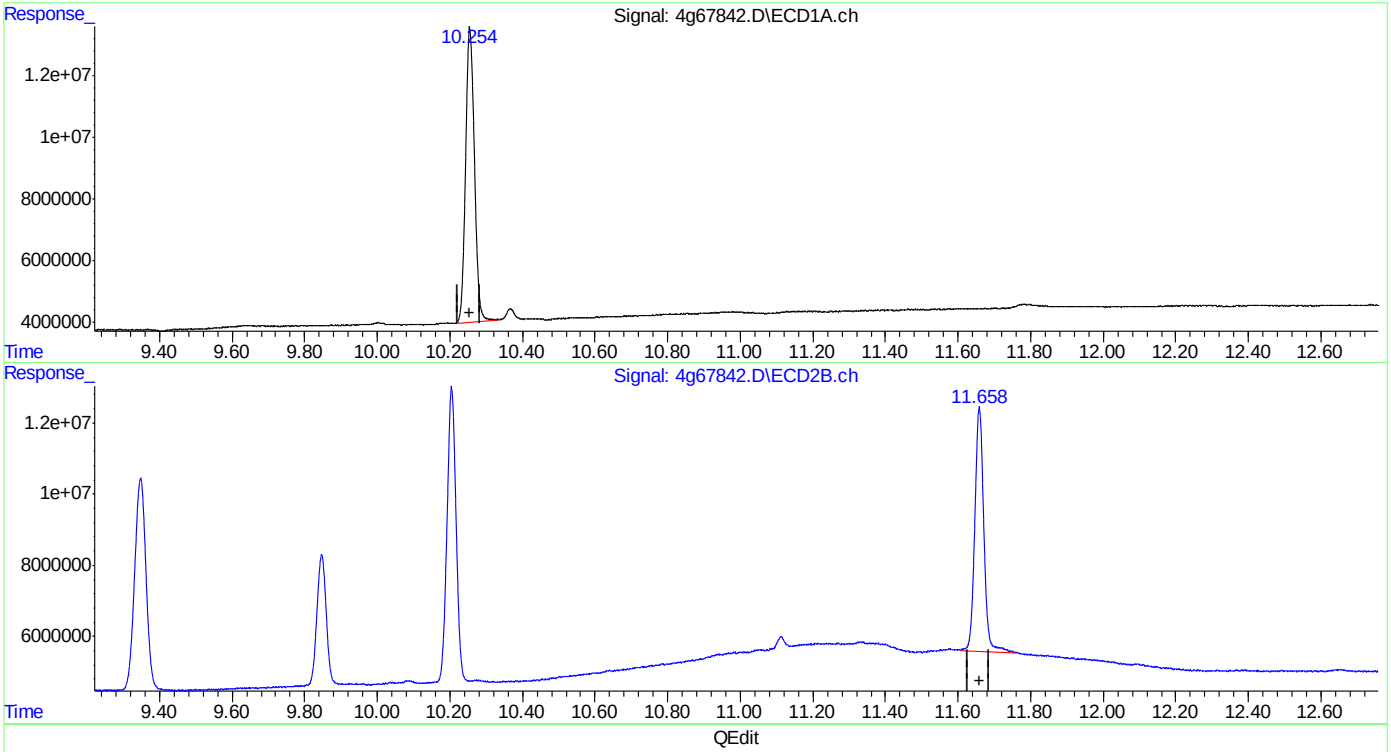
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.254min 22.161 PPB m
response 161275990

(24) Decachlorobiphenyl #2 (SA)
11.658min 23.749 PPB m
response 117342933

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:12 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.798	2.076	476.0E6	416.5E6	50.000	50.000
25) I	1-bromo-2...	1.798	2.076	476.0E6	416.5E6	50.000	50.000
31) I	1-bromo-2...	1.798	2.076	476.0E6	416.5E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
22)	Mirex	8.000	10.161	190.9E6	133.7E6	25.818	25.608
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.28

9

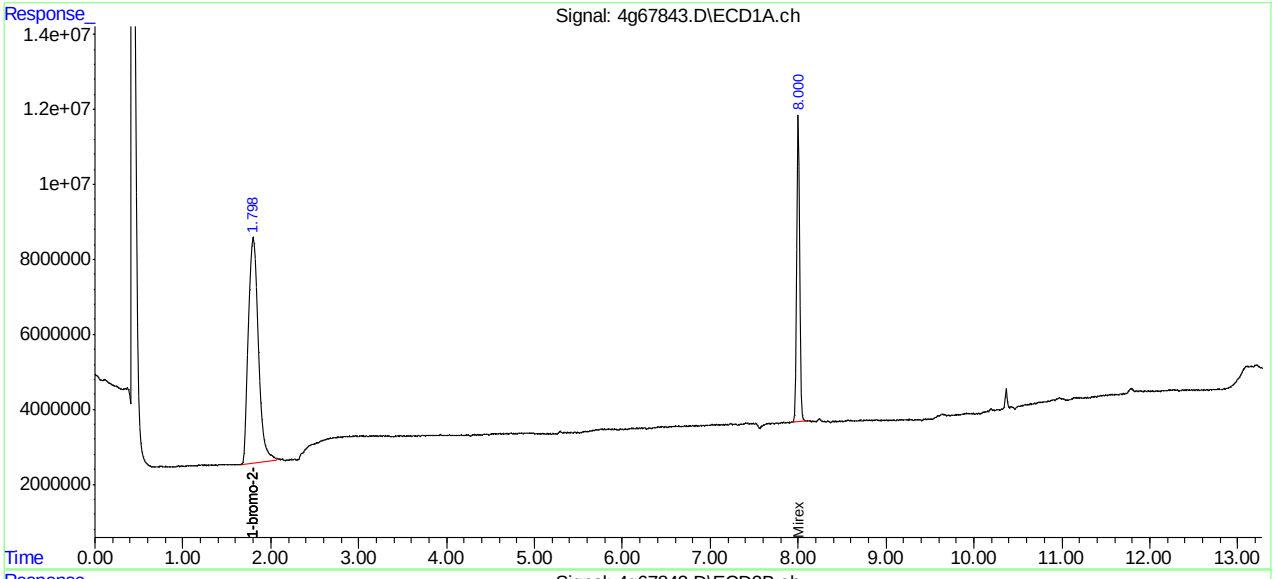
SGS ACCUTEST JC19423

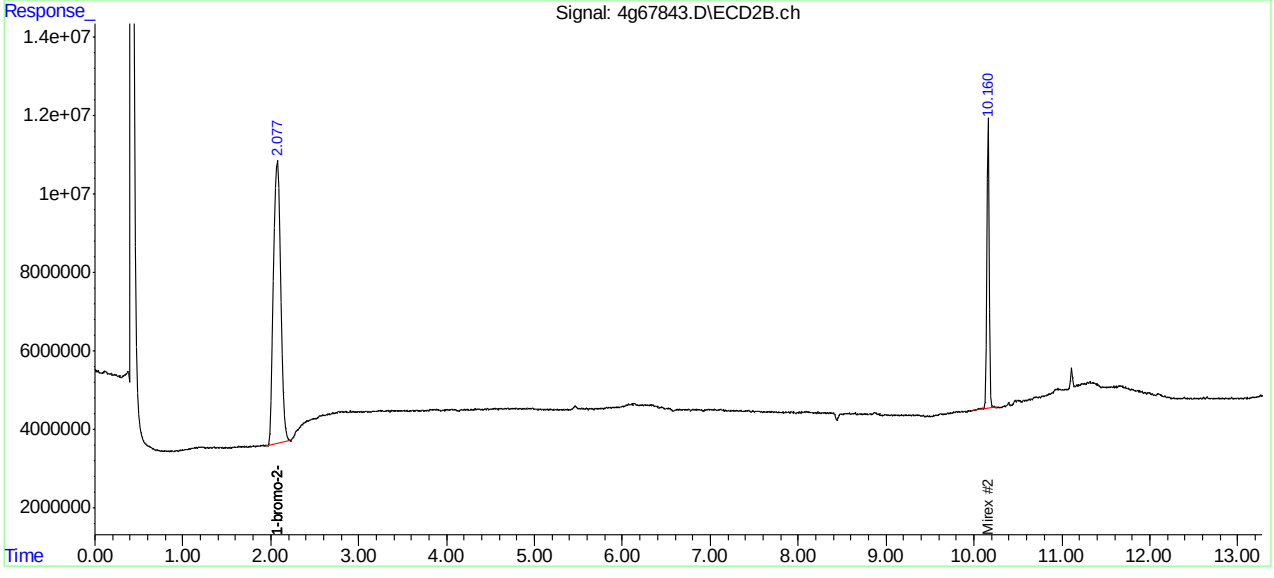
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:12 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:49:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.803	2.077	439.5E6	383.3E6	50.000	50.000
25) I	1-bromo-2...	1.803	2.077	439.5E6	383.3E6	50.000	50.000
31) I	1-bromo-2...	1.803	2.077	439.5E6	383.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.593	3.113	359.8E6	329.5E6	47.476m	48.809
Spiked Amount		40.000	Range	30 - 150	Recovery	= 118.69%	122.02%
24) SA	Decachlor...	10.255	11.658	328.6E6	215.7E6	46.017m	45.043
Spiked Amount		40.000			Recovery	= 115.04%	112.61%
	Target Compounds						
32)	Chlordane...	3.962	4.767	145.4E6	154.4E6	584.851	540.811
33)	Chlordane...	4.595	5.667	159.1E6	134.0E6	498.659	502.048
34)	Chlordane...	5.389	6.628	516.8E6	468.5E6	480.429	477.267
35)	Chlordane...	5.561	6.861	857.8E6	770.4E6	491.023	483.494m
36)	Chlordane...	6.682	8.374	110.1E6	122.4E6	417.425	480.465m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

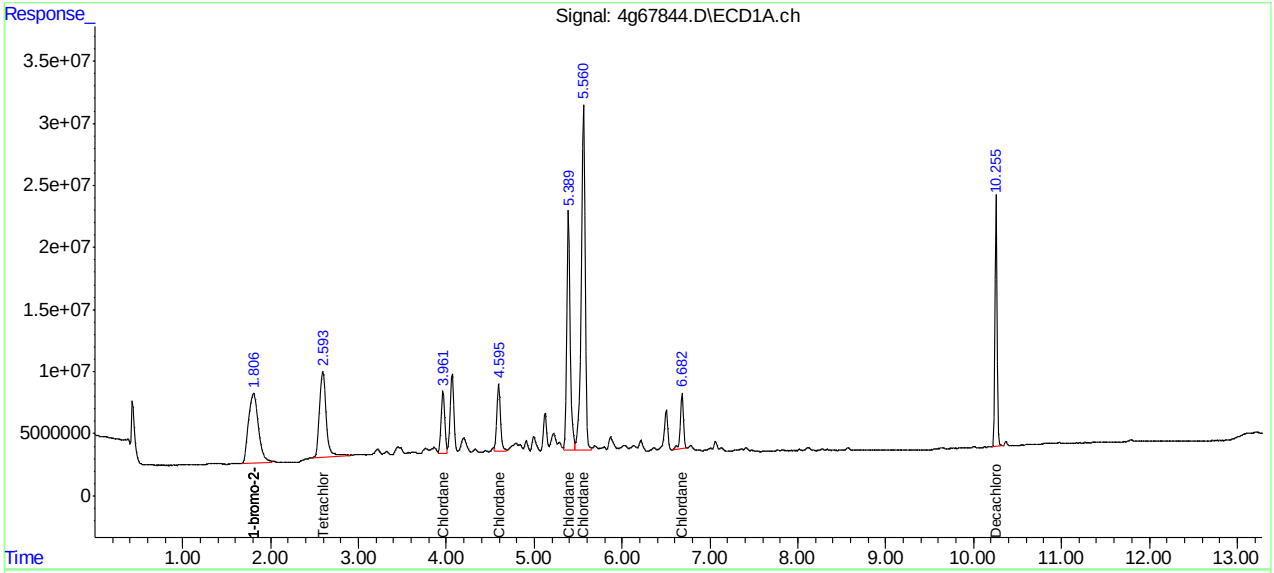
9.6.29
9

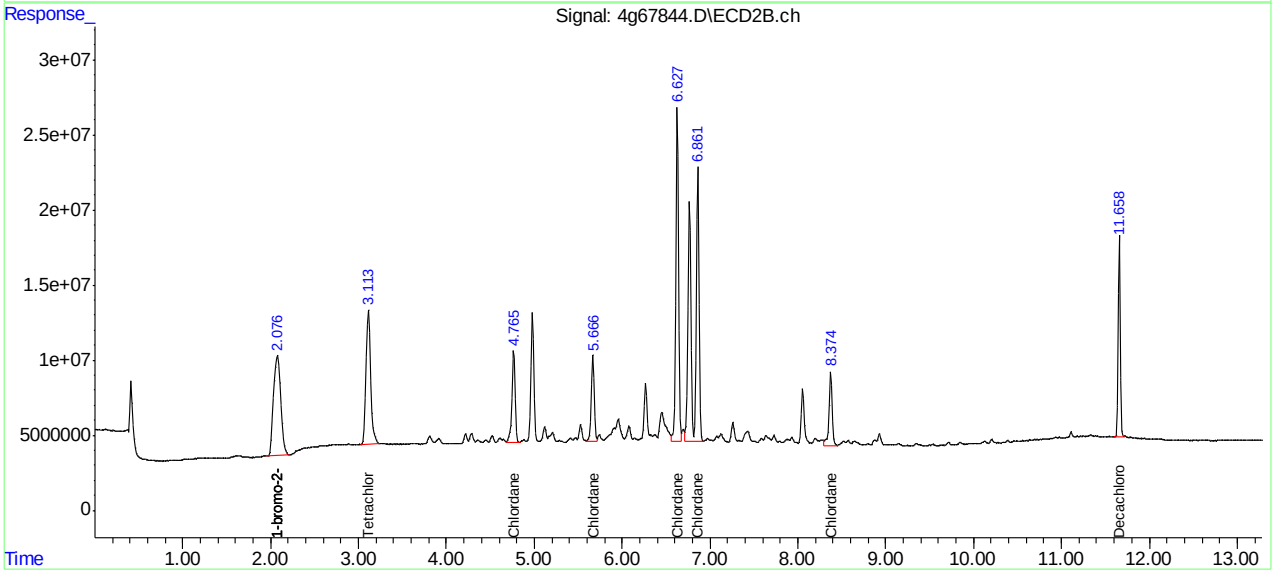
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:49:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-ICV1778	**Method:**	SW846 8081B
Lab FileID:	4G67844.D	**Analyst approved:**	05/03/16 16:01 Joseph Ravino
Injection Time:	05/02/16 17:27	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

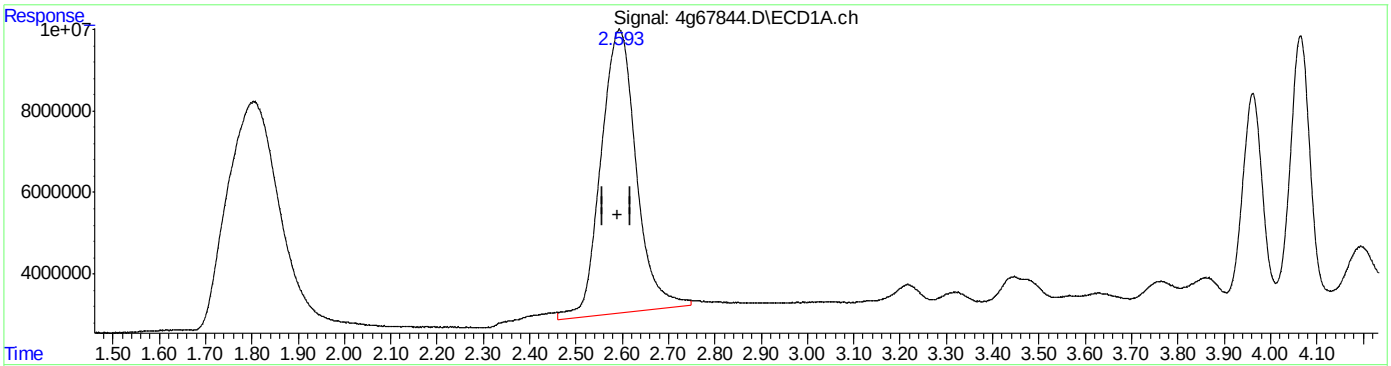
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
Chlordane-D		2	6.86	Split peak
Chlordane-E		2	8.37	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.26	Poor instrument integration

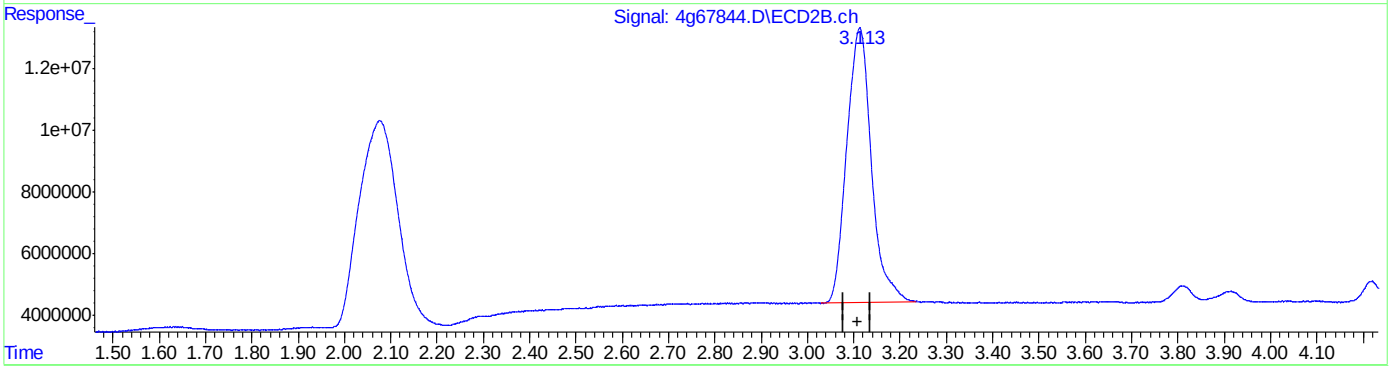
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.594min 48.835 PPB
response 370119696

(2) Tetrachloro-m-xylene #2 (SAB)
3.113min 48.809 PPB
response 329519867

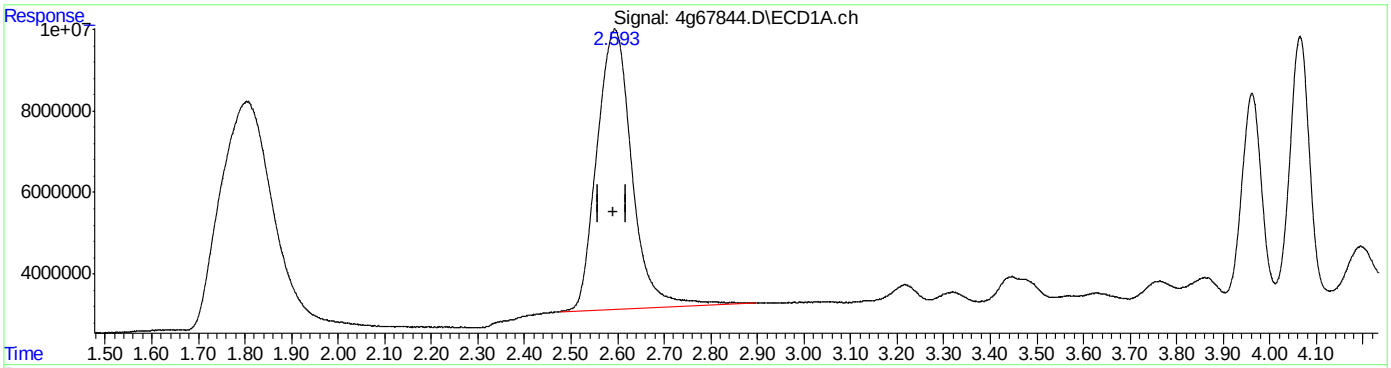
(+) = Expected Retention Time

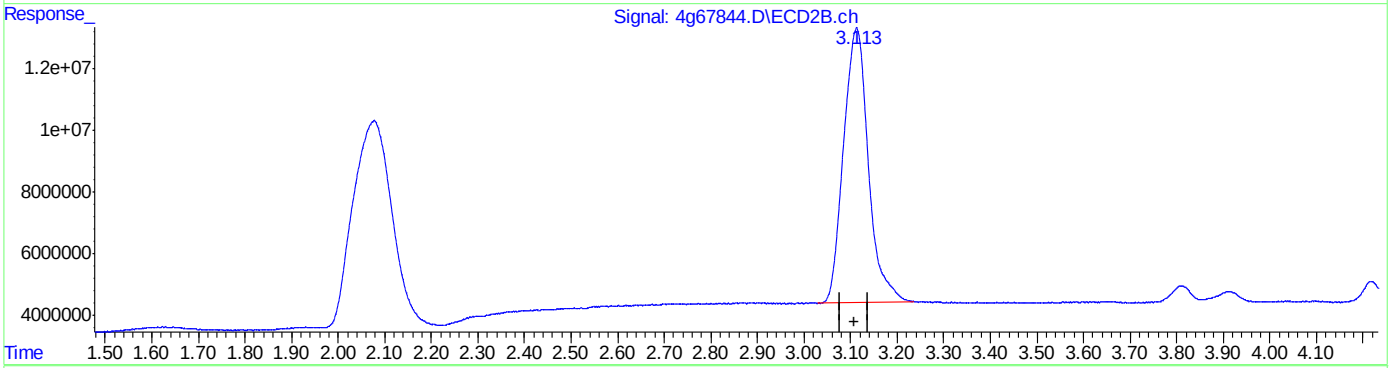
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.593min 47.476 PPB m
response 359820827

(2) Tetrachloro-m-xylene #2 (SAB)
3.113min 48.809 PPB
response 329519867

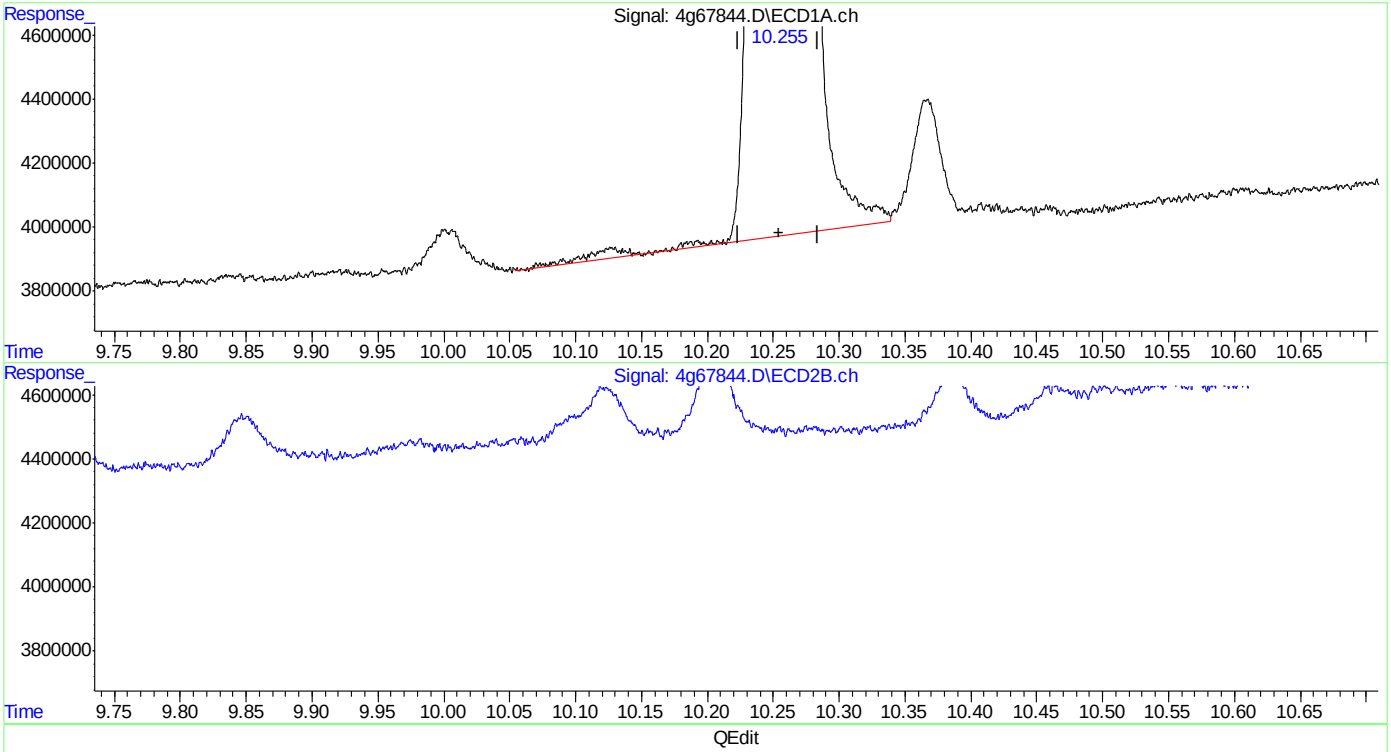
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   5:27 pm
Operator  : dharas
Sample    : icv1778-500
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 15   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(24) Decachlorobiphenyl (SA)

10.256min 46.239 PPB

response 330233091

(24) Decachlorobiphenyl #2 (SA)

11.658min 45.043 PPB

response 215658476

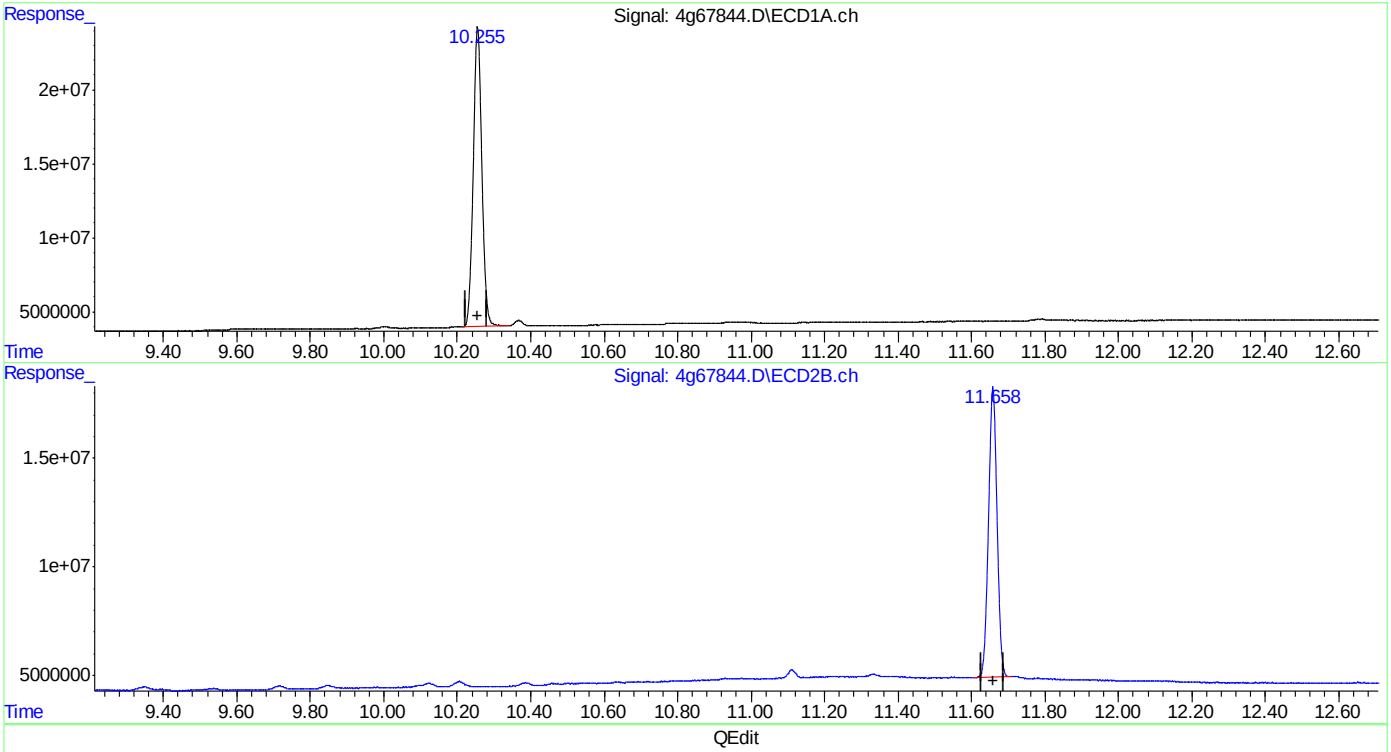
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.255min 46.017 PPB m
response 328647279

(24) Decachlorobiphenyl #2 (SA)
11.658min 45.043 PPB
response 215658476

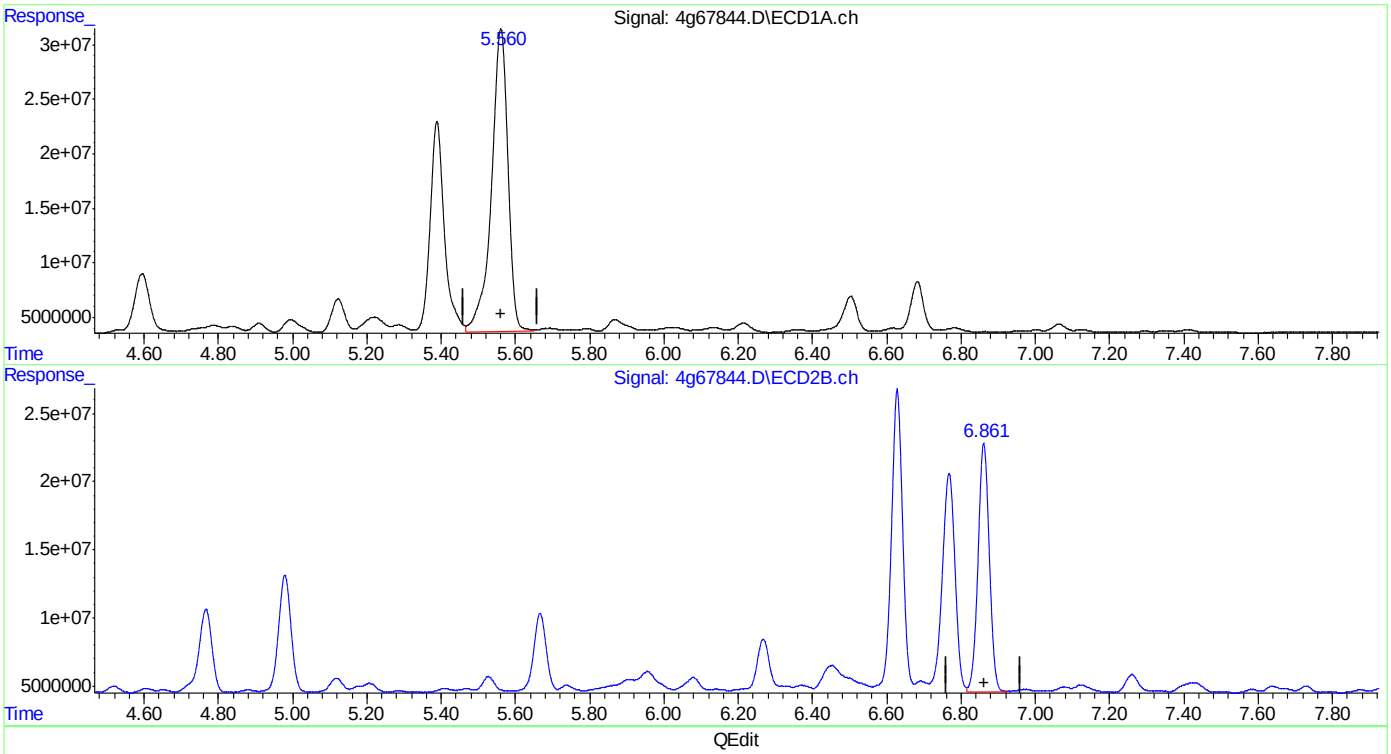
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(35) Chlordane {D}
5.561min 491.023 PPB
response 857819158

(35) Chlordane {D} #2
6.861min 241.391 PPB
response 384618387

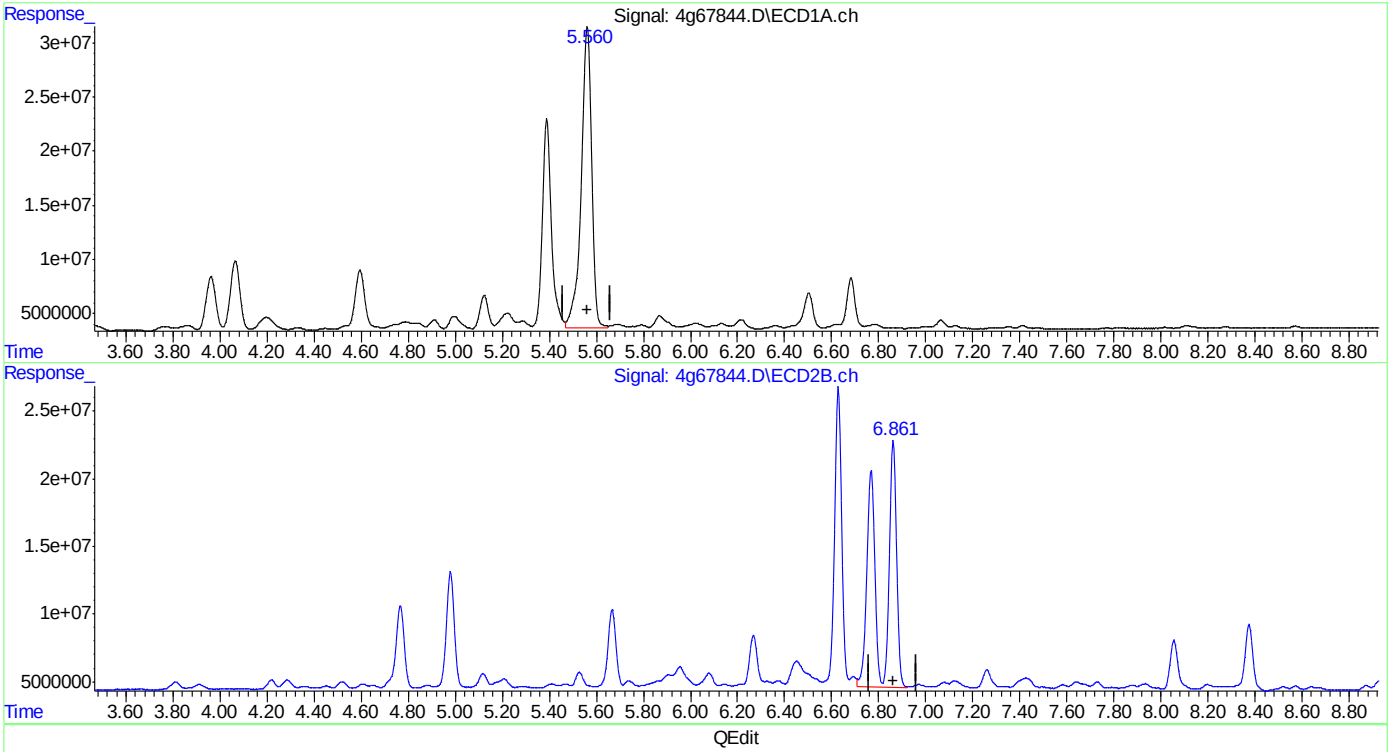
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:48:58 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(35) Chlordane {D}
5.561min 491.023 PPB
response 857819158

(35) Chlordane {D} #2
6.861min 483.494 PPB m
response 770372391

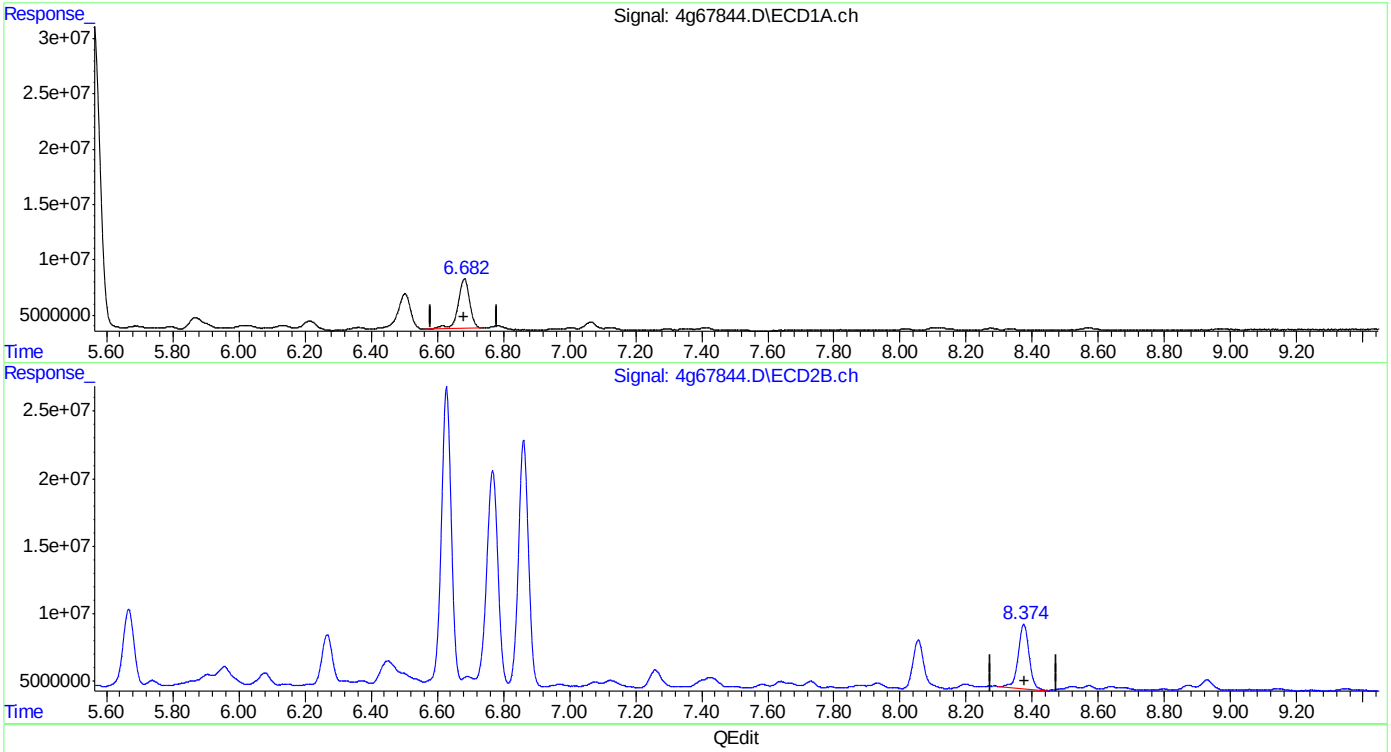
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(36) Chlordane {E}
6.682min 417.425 PPB
response 110145191

(36) Chlordane {E} #2
8.374min 424.264 PPB
response 108125507

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:49:13 2016 RPT1

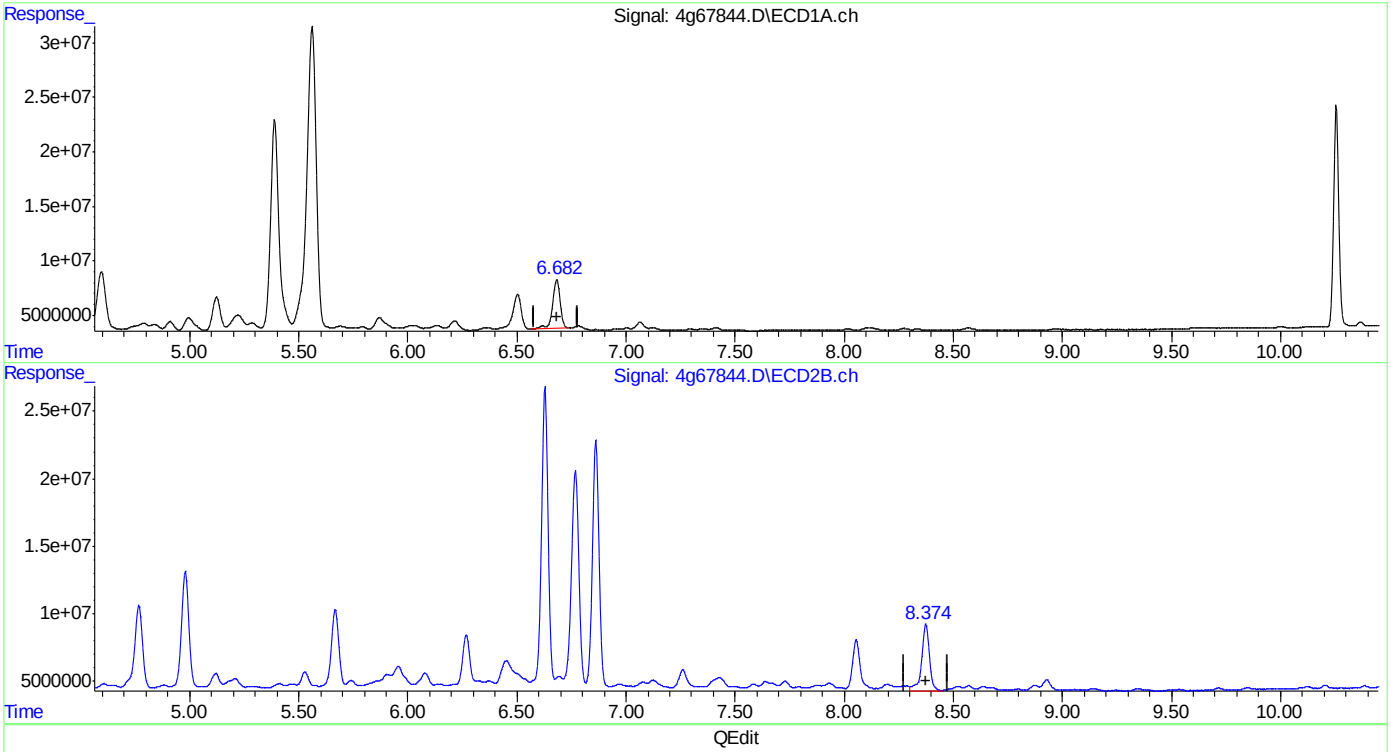
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(36) Chlordane {E}
6.682min 417.425 PPB
response 110145191

(36) Chlordane {E} #2
8.374min 480.465 PPB m
response 122448490

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:57:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.802	2.078	439.8E6	388.8E6	50.000	50.000
25) I	1-bromo-2...	1.802	2.078	439.8E6	388.8E6	50.000	50.000
31) I	1-bromo-2...	1.802	2.078	439.8E6	388.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.596	3.112	339.7E6	304.8E6	44.795m	44.512
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	111.99%	111.28%
24) SA	Decachlor...	10.256	11.658	317.4E6	216.6E6	44.418	44.611
	Spiked Amount 40.000			Recovery	=	111.04%	111.53%
	Target Compounds						
26) L8	Toxaphene{A}	6.480	7.374	134.8E6	71828526	471.946	517.994
27) L8	Toxaphene{B}	6.757	8.262	142.9E6	87910102	487.368	535.557
28) L8	Toxaphene{C}	6.925	8.425	193.6E6	141.4E6	492.678	505.345
29) L8	Toxaphene{D}	7.297	8.868	130.3E6	86061044	496.434m	522.195
30) L8	Toxaphene{E}	7.971	9.772	86943512	66083312	497.486	506.616

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

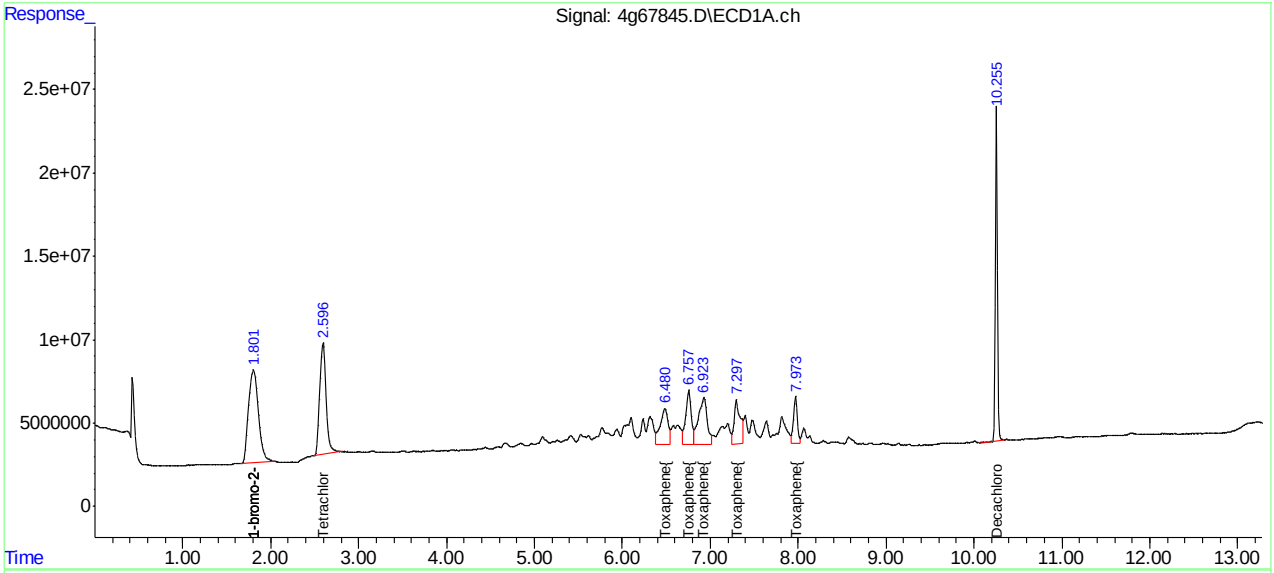
9.6.30
9

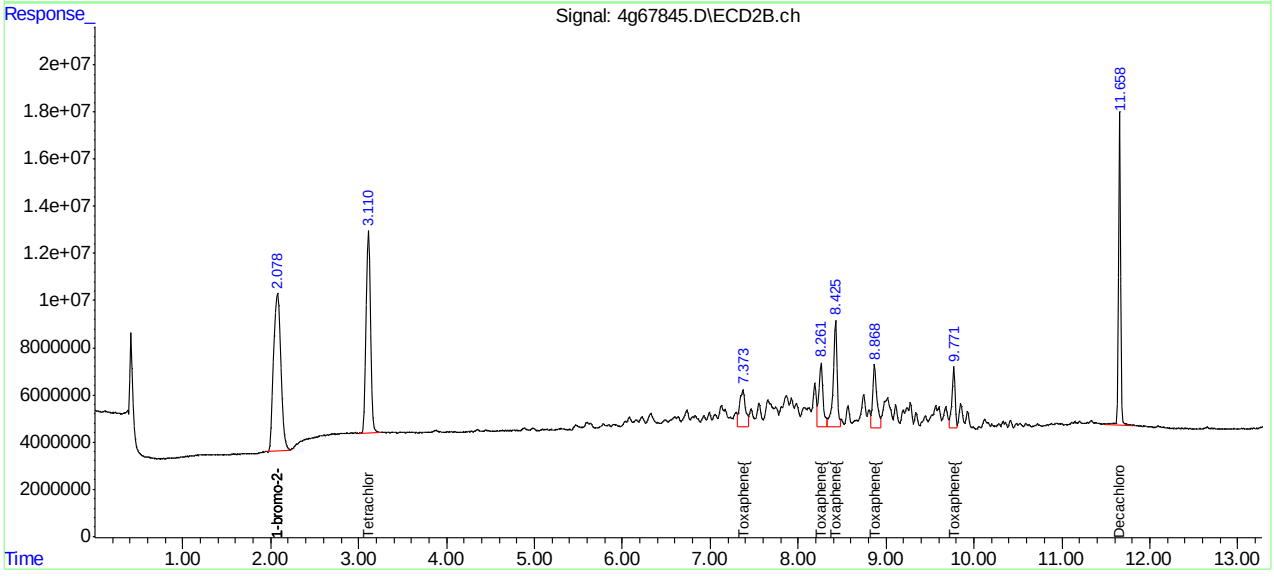
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:57:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-ICV1778	**Method:**	SW846 8081B
Lab FileID:	4G67845.D	**Analyst approved:**	05/03/16 16:01 Joseph Ravino
Injection Time:	05/02/16 17:43	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

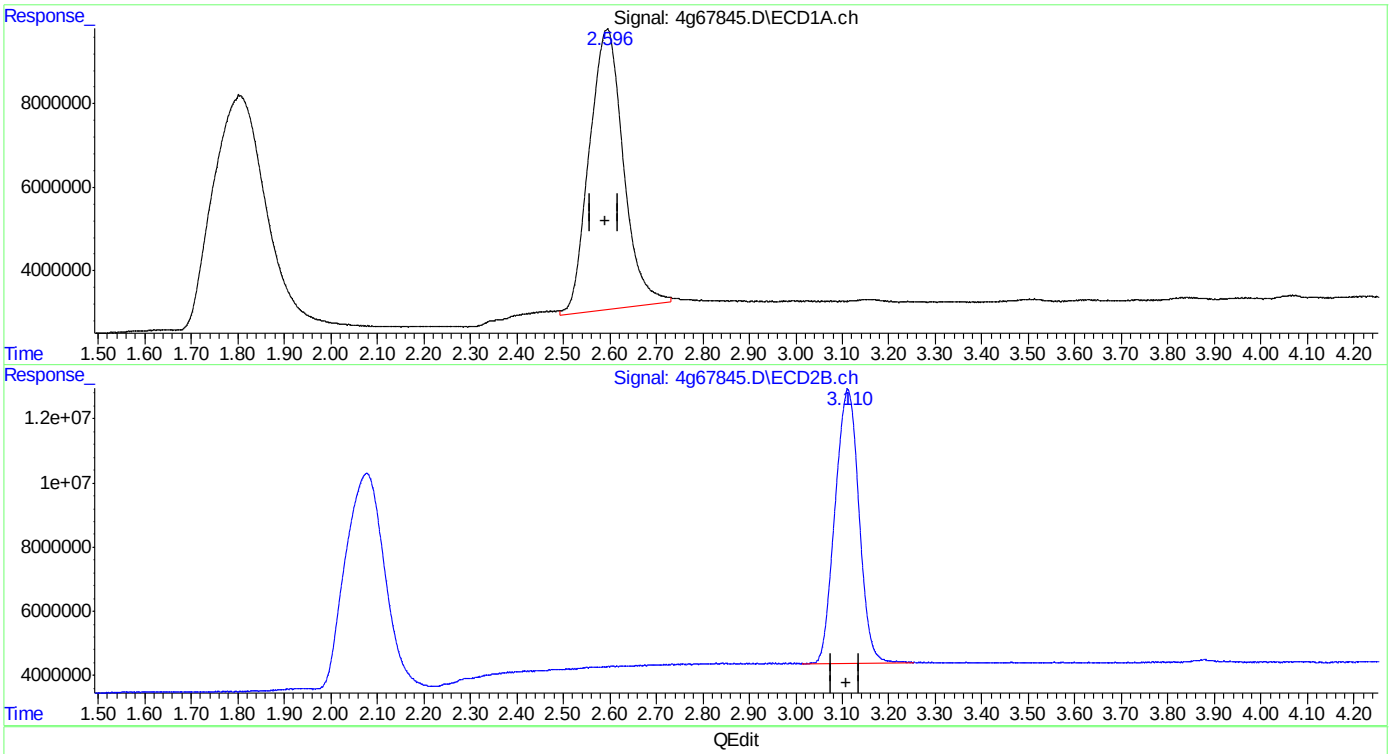
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.60	Poor instrument integration
Toxaphene-D		1	7.30	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:51:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.596min 45.130 PPB
response 342259313

(2) Tetrachloro-m-xylene #2 (SAB)
3.112min 44.512 PPB
response 304771635

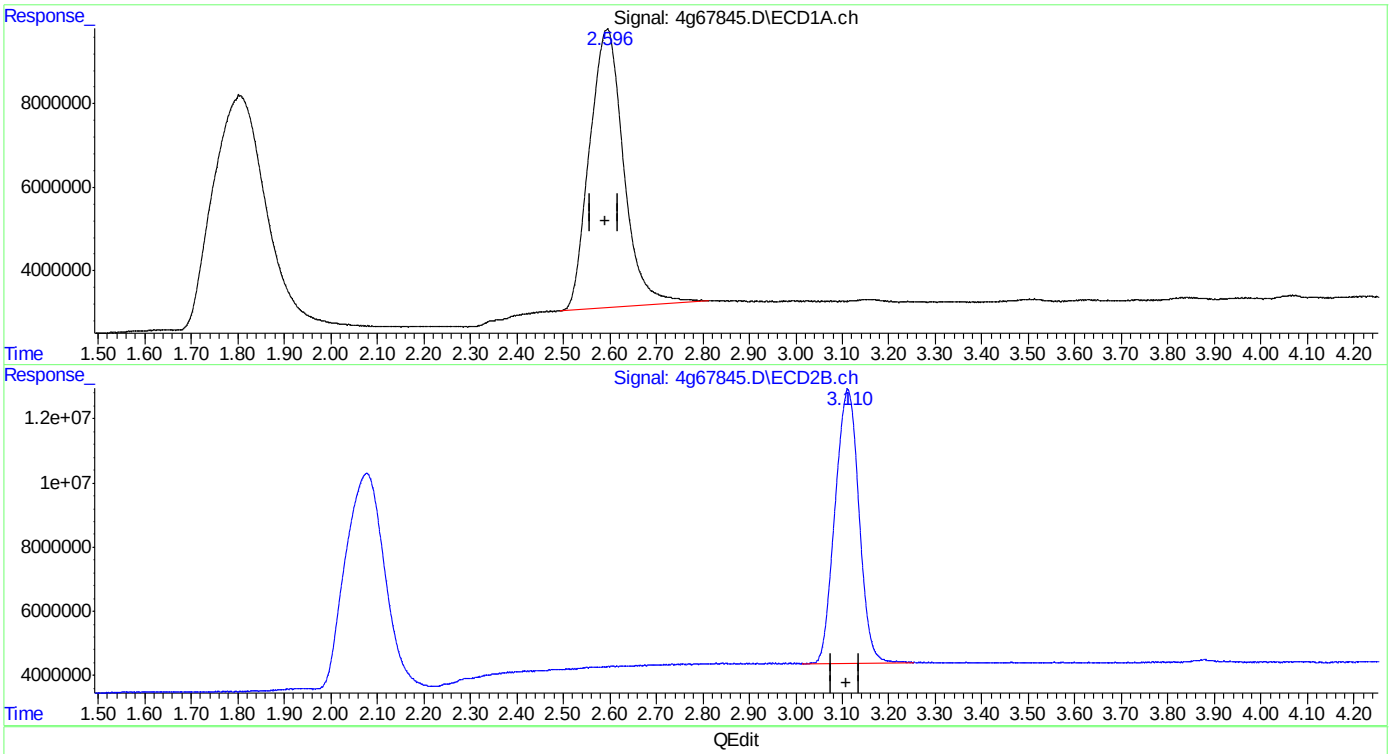
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   5:43 pm
Operator  : dharas
Sample    : icv1778-500
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 16   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:51:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(2) Tetrachloro-m-xylene (SAB)

2.596min 44.795 PPB m

response 339720589

(2) Tetrachloro-m-xylene #2 (SAB)

3.112min 44.512 PPB

response 304771635

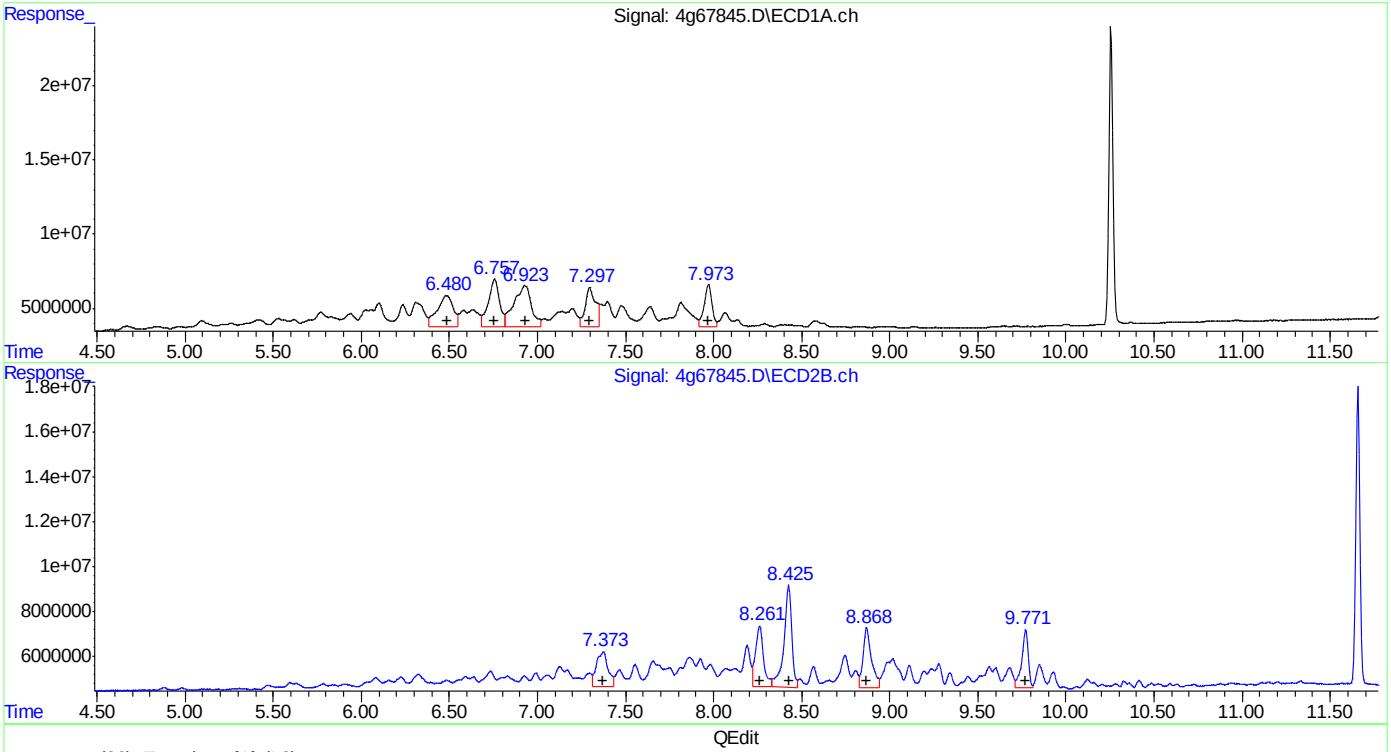
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:51:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
6.48	134779811	471.95
6.76	142940362	487.37
6.92	193629010	492.68
7.30	110917152	422.69
7.97	86943512	497.49

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
7.37	71828526	517.99
8.26	87910102	535.56
8.43	141404945	505.35
8.87	86061044	522.19
9.77	66083312	506.62

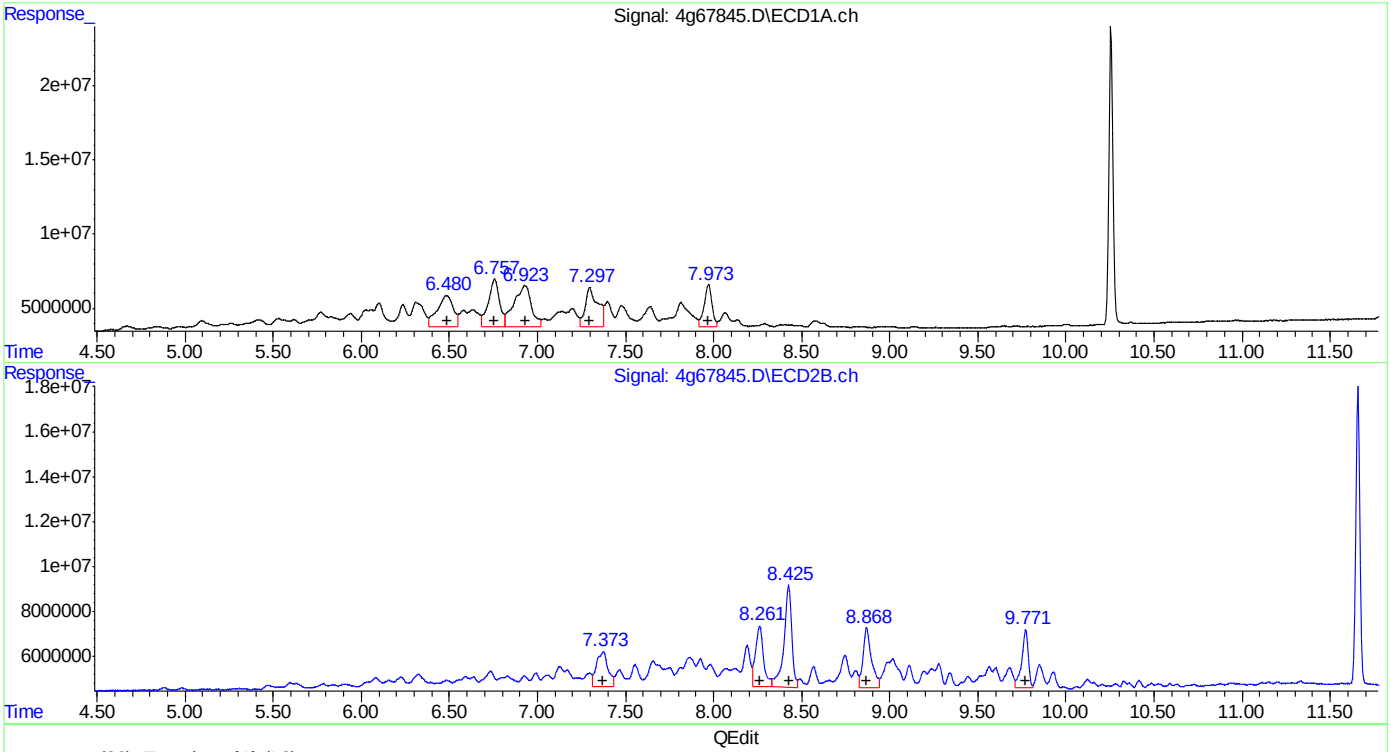
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:51:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
6.48	134779811	471.95
6.76	142940362	487.37
6.92	193629010	492.68
7.30	130268171	496.43
7.97	86943512	497.49

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
7.37	71828526	517.99
8.26	87910102	535.56
8.43	141404945	505.35
8.87	86061044	522.19
9.77	66083312	506.62

(+) = Expected Retention Time

SGS ACCUTEST JC19423

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/06/16 10:47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67943.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:57 am
Operator : brittanp
Sample : cc1778-25
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 08:13:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.789	2.069	434.7E6	388.5E6	50.000	50.000
25) I	1-bromo-2...	1.789	2.069	434.7E6	388.5E6	50.000	50.000
31) I	1-bromo-2...	1.789	2.069	434.7E6	388.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.577	3.106	187.1E6	171.4E6	24.962m	25.057
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 62.41%	62.64%
24) SA	Decachlor...	10.242	11.644	195.4E6	121.6E6	27.659	25.049
	Spiked Amount	40.000			Recovery	= 69.15%	62.62%
	Target Compounds						
3) A	alpha-BHC	3.148	3.865	254.9E6	239.4E6	24.854	23.936
4) MA	gamma-BHC	3.493	4.344	220.3E6	214.6E6	24.563	24.143
5) MA	Heptachlor	3.810	4.970	222.0E6	228.3E6	26.373	24.932
6) B	beta-BHC	3.596	4.438	115.3E6	96121276	26.834	23.878
7) B	delta-BHC	4.056	4.869	221.4E6	210.6E6	27.100	25.382
8) MB	Aldrin	4.431	5.455	211.3E6	214.1E6	24.604	23.734
9) B	Heptachlo...	5.193	6.316	183.9E6	193.1E6	23.953	23.700
10) B	gamma-Chl...	5.376	6.615	184.3E6	192.4E6	24.021	24.431
11) B	alpha-Chl...	5.557	6.847	193.7E6	187.7E6	23.411	23.742
12) A	Endosulfan I	5.742	6.952	208.4E6	181.8E6	24.492	24.075
13) B	4,4'-DDE	5.684	7.104f	171.6E6	192.8E6	22.373	24.451
14) MA	Dieldrin	6.079	7.399f	200.3E6	194.7E6	24.826	24.728
15) MA	Endrin	6.416	7.919f	187.8E6	176.3E6	24.449	25.120
16) A	4,4'-DDD	6.560	8.079f	142.9E6	152.6E6	21.983	23.945
17) B	Endosulfa...	6.755	8.277f	184.1E6	169.8E6	24.910	24.475
18) MA	4,4'-DDT	6.987	8.622f	135.5E6	151.7E6	28.149	27.228m
19) B	Endrin Al...	7.389f	8.854f	155.6E6	129.5E6	24.933	24.574
20) B	Endosulfa...	8.084f	9.329f	179.3E6	149.2E6	26.466	25.689
21) A	Methoxychlor	7.797	9.832	85318930	80493724	29.460	26.594
22)	Mirex	7.982f	10.147	172.5E6	121.7E6	25.538	24.999
23) B	Endrin Ke...	8.547f	10.191	209.6E6	166.3E6	26.758	26.083

SemiQuant Compounds - Not Calibrated on this Instrument

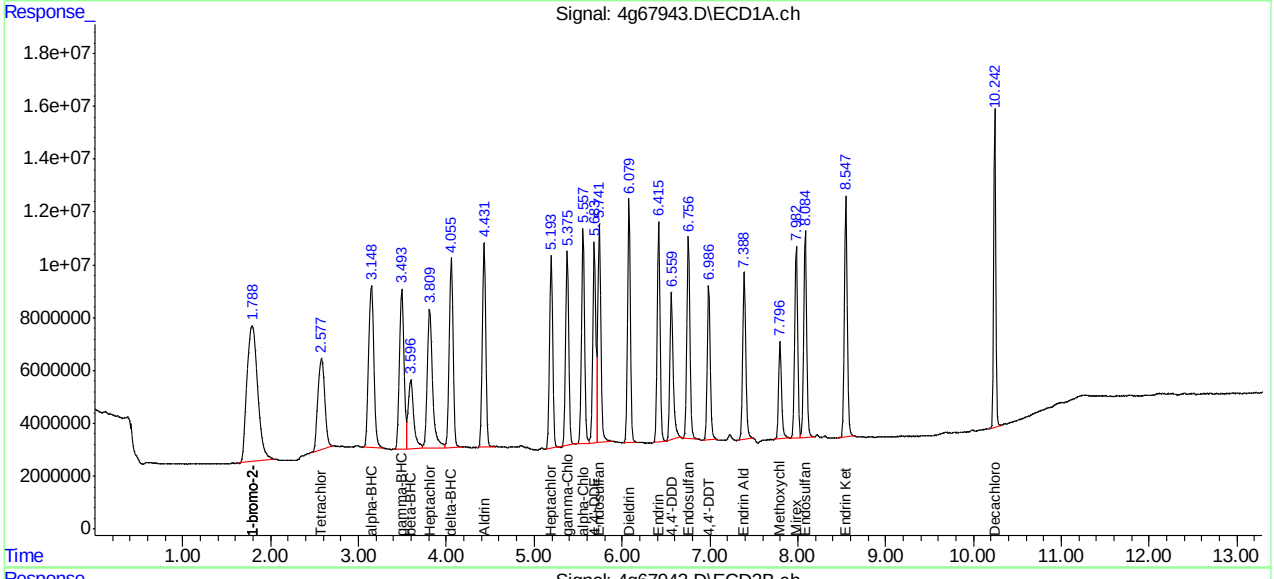
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

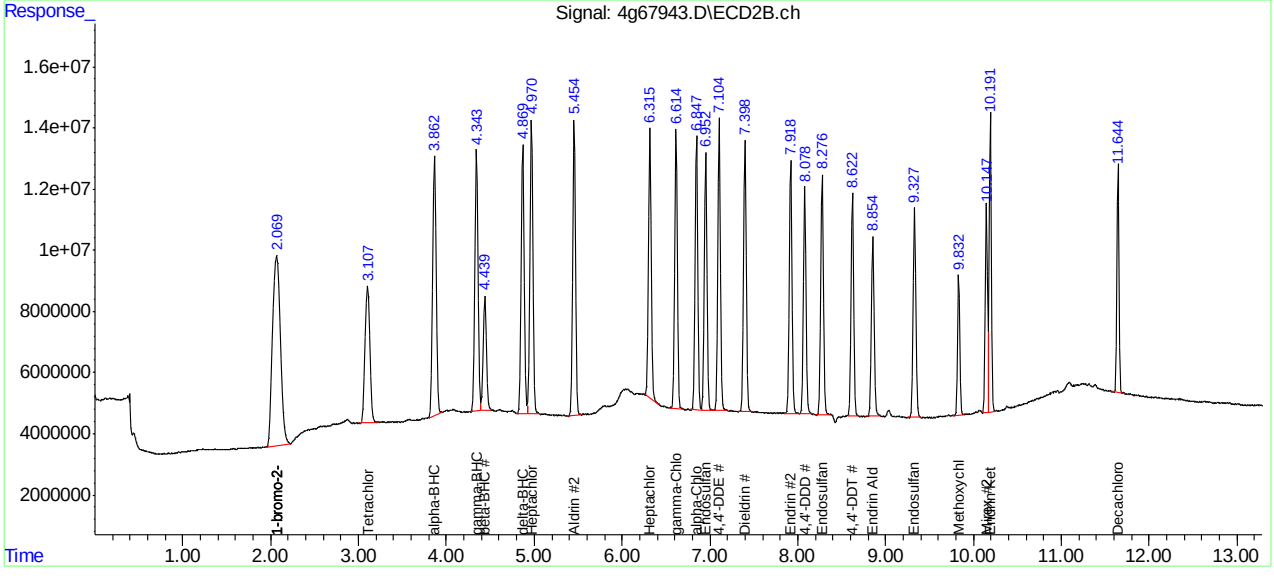
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67943.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:57 am
Operator : brittanp
Sample : cc1778-25
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 08:13:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1782-CC1778	**Method:**	SW846 8081B
Lab FileID:	4G67943.D	**Analyst approved:**	05/06/16 09:43 Brittany Piercy
Injection Time:	05/06/16 07:57	**Supervisor approved:**	05/06/16 10:47 Gwendolyn Burns

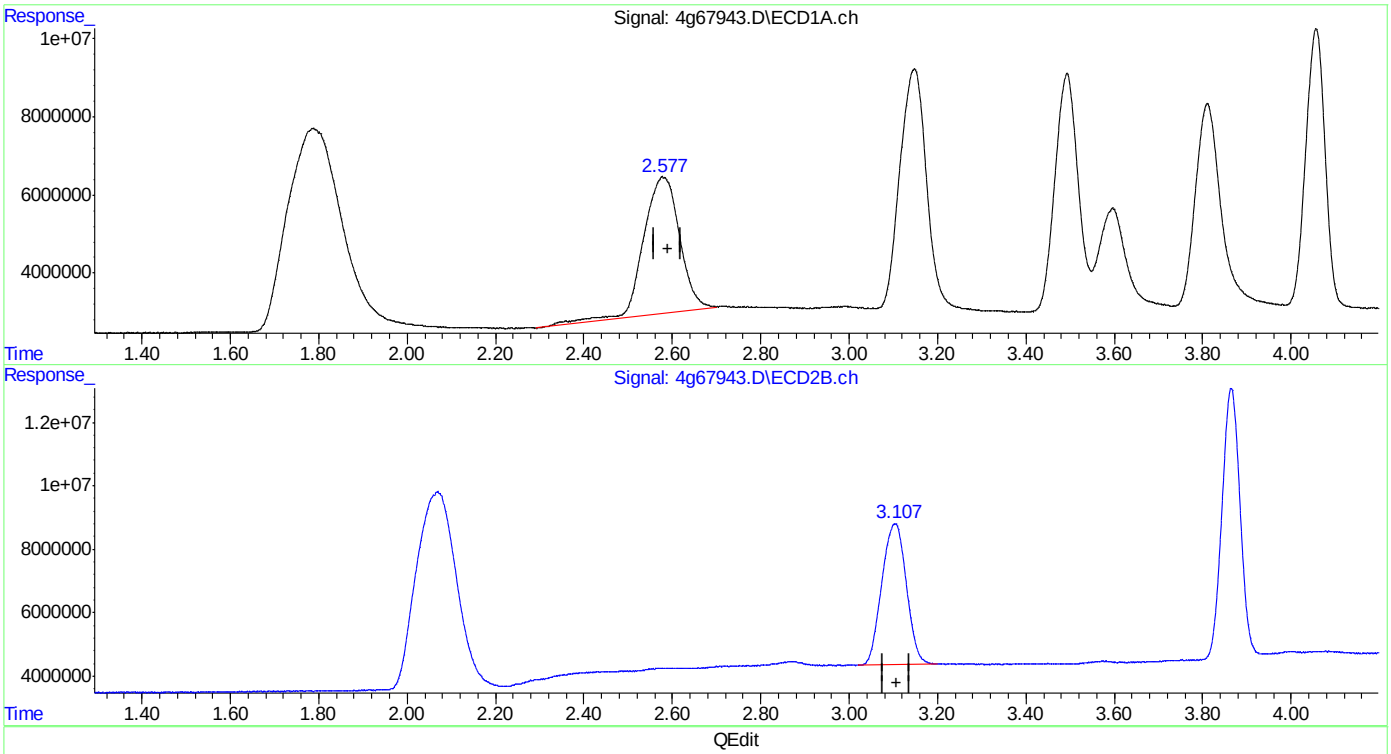
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.58	Poor instrument integration
4,4'-DDT	50-29-3	2	8.62	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67943.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:57 am
Operator : brittanp
Sample : cc1778-25
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 08:10:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.576min 26.587 PPB
response 199282481

(2) Tetrachloro-m-xylene #2 (SAB)
3.106min 25.057 PPB
response 171444730

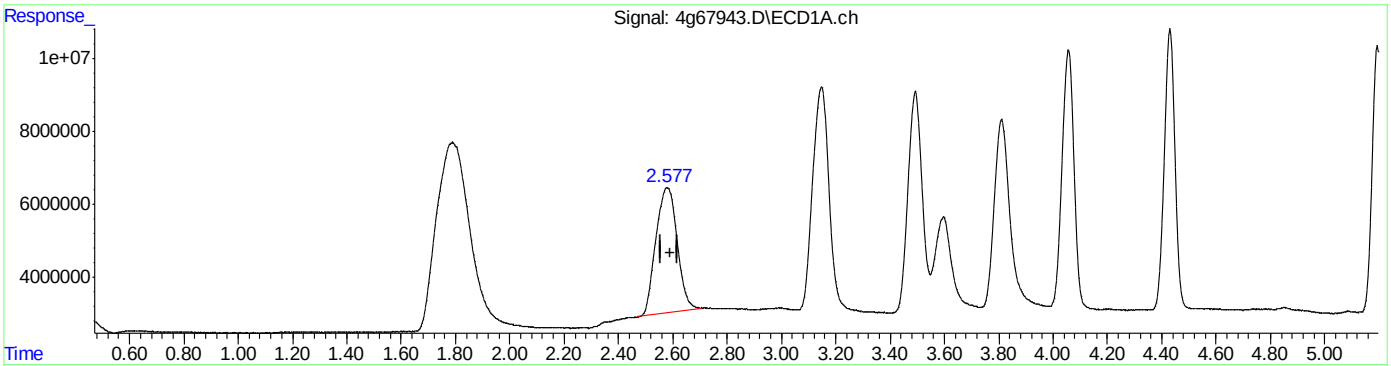
(+) = Expected Retention Time
4PST1778.M Fri May 06 08:12:54 2016 RPT1

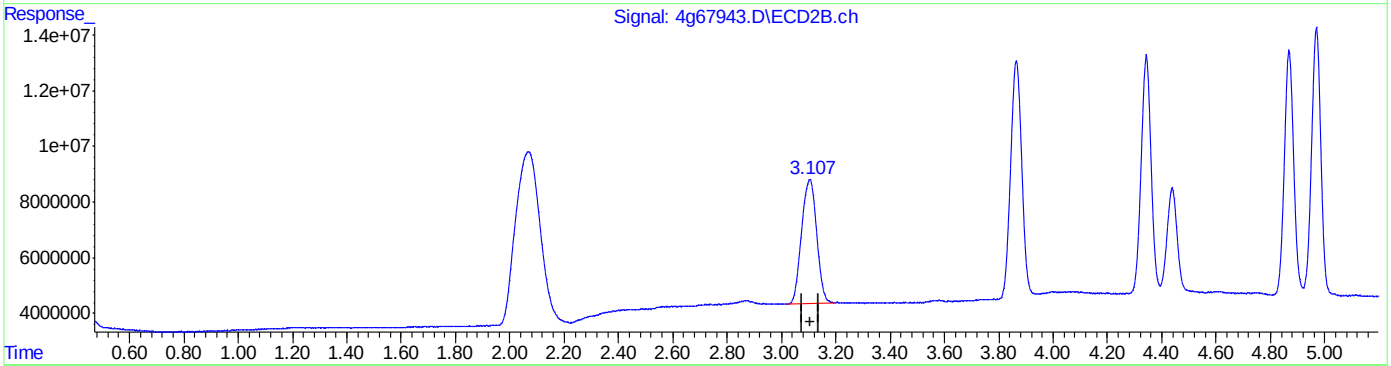
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67943.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016   7:57 am
Operator  : brittanp
Sample    : cc1778-25
Misc      : op93644,g4g1782,15.5,,,10,1
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 08:10:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

2.577min 24.962 PPB m

response 187099682

(2) Tetrachloro-m-xylene #2 (SAB)

3.106min 25.057 PPB

response 171444730

(+) = Expected Retention Time

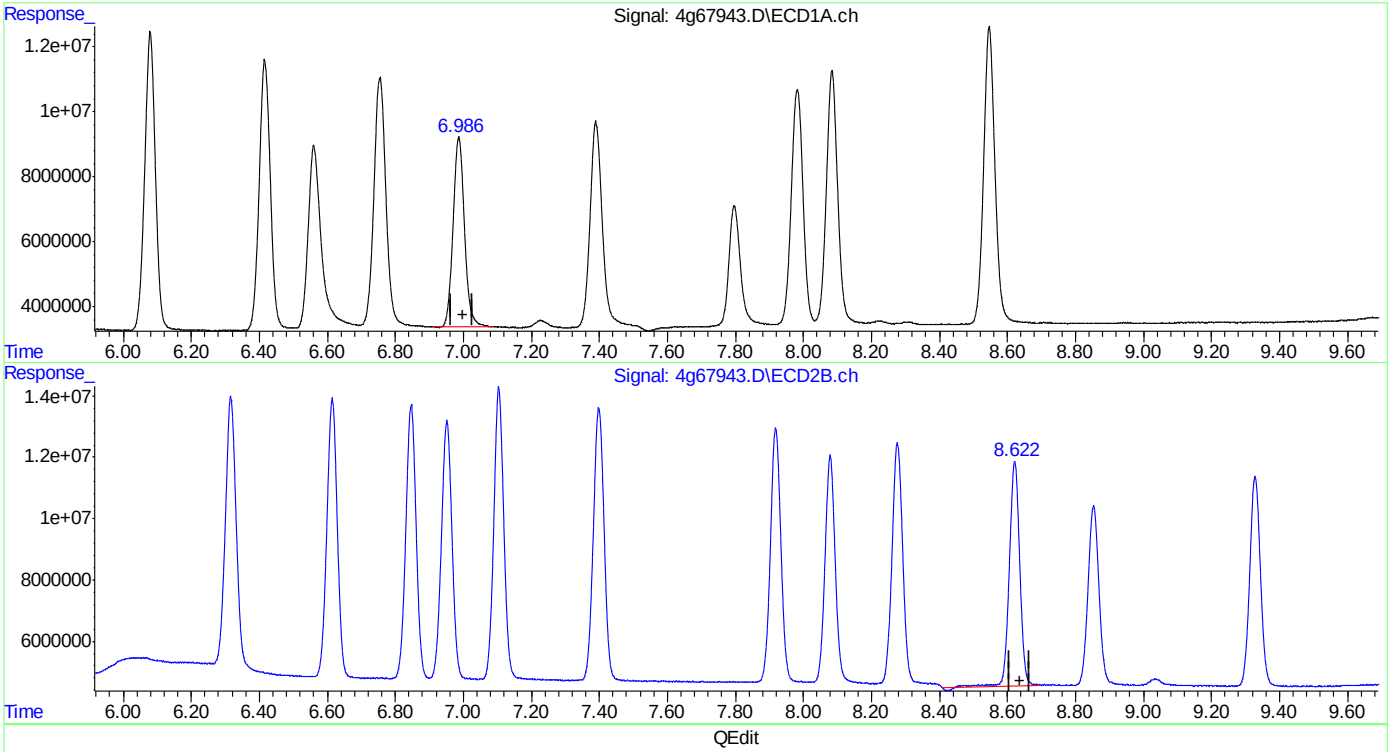
4PST1778.M Fri May 06 08:12:59 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67943.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:57 am
Operator : brittanp
Sample : cc1778-25
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 08:10:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(18) 4,4'-DDT (MA)
6.987min 28.149 PPB
response 135520778

(18) 4,4'-DDT #2 (MA)
8.622min 27.934 PPB
response 155587265

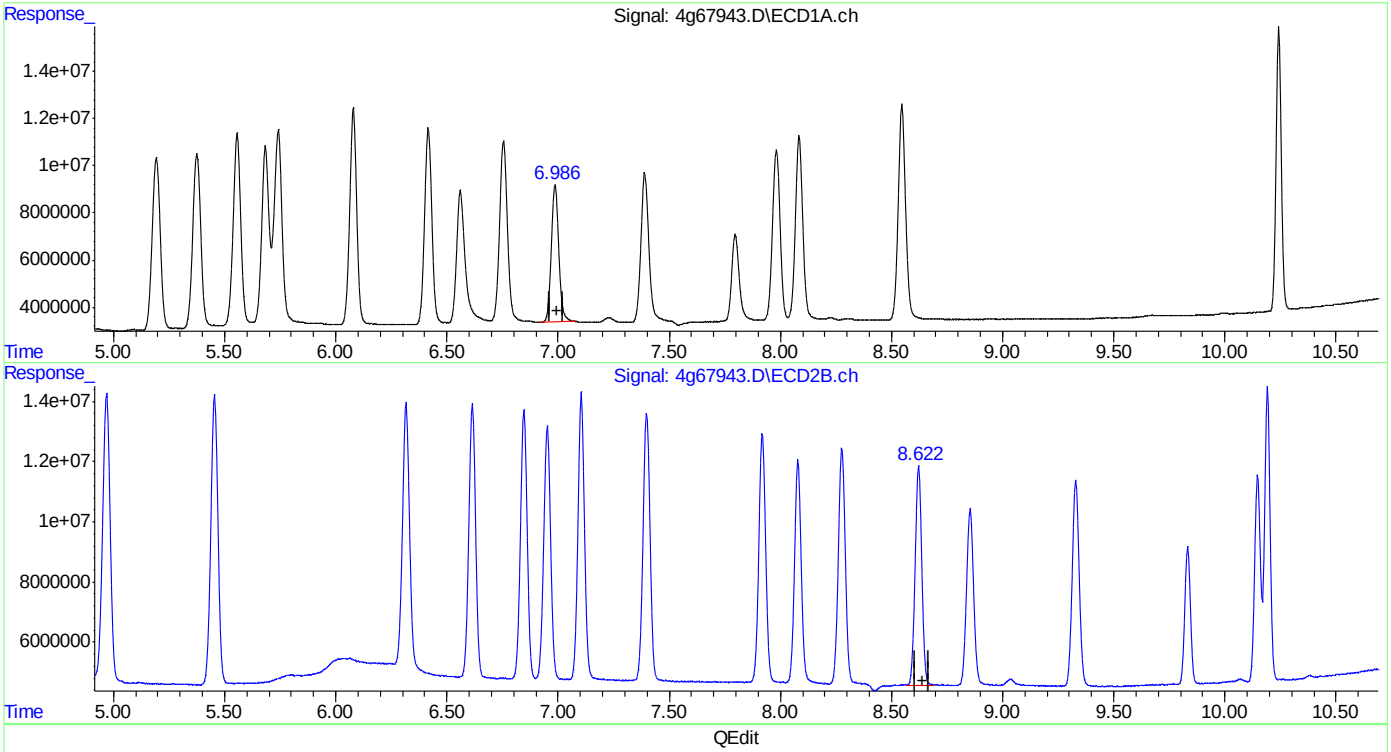
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67943.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 7:57 am
Operator : brittanp
Sample : cc1778-25
Misc : op93644,g4g1782,15.5,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 08:10:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(18) 4,4'-DDT (MA)
6.987min 28.149 PPB
response 135520778

(18) 4,4'-DDT #2 (MA)
8.622min 27.228 PPB m
response 151657087

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67973.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:57 pm
Operator : dharas
Sample : cc1778-50
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 15:15:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.818f	2.088f	415.2E6	368.2E6	50.000	50.000	
25) I	1-bromo-2...	1.818	2.088	415.2E6	368.2E6	50.000	50.000	
31) I	1-bromo-2...	1.818	2.088	415.2E6	368.2E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.594f	3.110	409.9E6	335.1E6	57.251	51.680	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 143.13%	129.20%	
24) SA	Decachlor...	10.245	11.643	390.7E6	243.0E6	57.906	52.828	
	Spiked Amount	40.000			Recovery	= 144.76%	132.07%	
	Target Compounds							
3) A	alpha-BHC	3.156	3.868	532.8E6	499.1E6	54.388	52.649	
4) MA	gamma-BHC	3.501	4.346	466.7E6	447.1E6	54.477	53.065	
5) MA	Heptachlor	3.822	4.971	464.2E6	452.1E6	57.725	52.088	
6) B	beta-BHC	3.607	4.441	224.9E6	197.4E6	54.812	51.731	
7) B	delta-BHC	4.058	4.872	407.0E6	436.5E6	52.153	55.511	
8) MB	Aldrin	4.430	5.455	445.1E6	434.8E6	54.246	50.855	
9) B	Heptachlo...	5.195	6.318	394.3E6	390.4E6	53.777	50.570	
10) B	gamma-Chl...	5.377	6.615	398.1E6	391.4E6	54.309	52.455	
11) B	alpha-Chl...	5.557	6.847	408.3E6	379.5E6	51.675	50.645	
12) A	Endosulfan I	5.743	6.952	442.3E6	372.5E6	54.412	52.062	
13) B	4,4'-DDE	5.689	7.106	367.9E6	399.6E6	50.208	53.471	
14) MA	Dieldrin	6.080	7.400	438.4E6	402.2E6	56.896	53.894	
15) MA	Endrin	6.418	7.920	415.1E6	366.4E6	56.573	55.083	
16) A	4,4'-DDD	6.570	8.081	348.6E6	319.4E6	56.145	52.892	
17) B	Endosulfa...	6.759	8.278	421.7E6	349.8E6	59.733	53.197	
18) MA	4,4'-DDT	6.992	8.623	214.3E6	298.7E6	43.374	56.583	#
19) B	Endrin Al...	7.395	8.855	334.5E6	264.3E6	56.134	52.916	
20) B	Endosulfa...	8.089	9.331	384.6E6	298.6E6	59.435	54.262	
21) A	Methoxychlor	7.807	9.834	143.4E6	154.1E6	51.837	53.729	
22)	Mirex	7.982	10.147	351.7E6	238.9E6	54.505	51.749	
23) B	Endrin Ke...	8.551	10.192	424.4E6	335.4E6	56.706	55.511	

SemiQuant Compounds - Not Calibrated on this Instrument

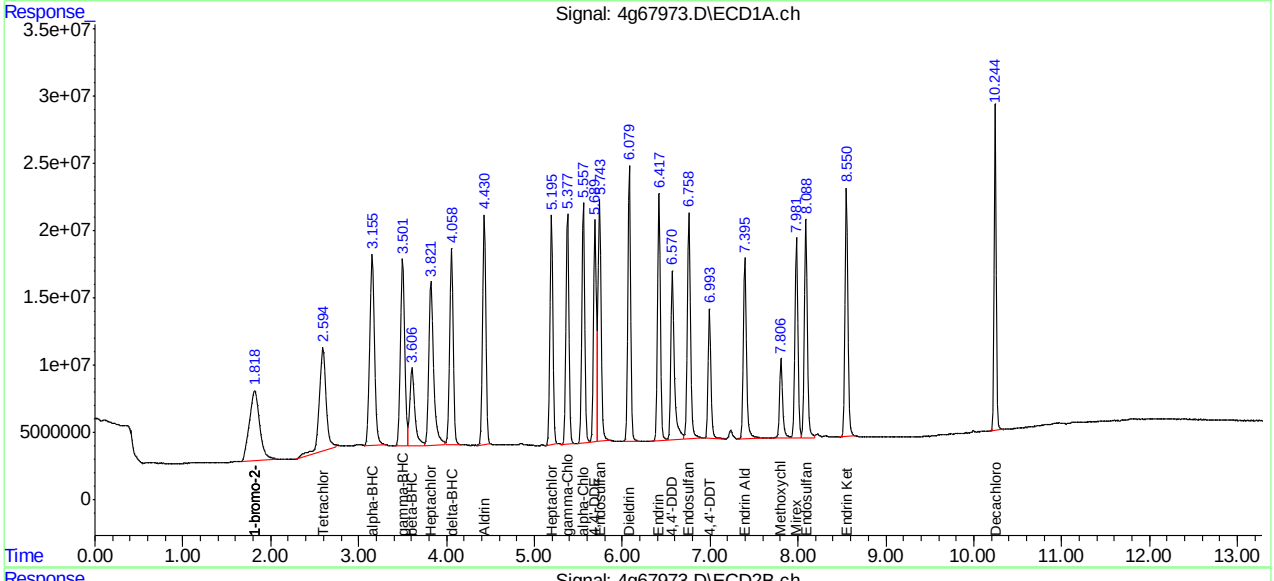
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

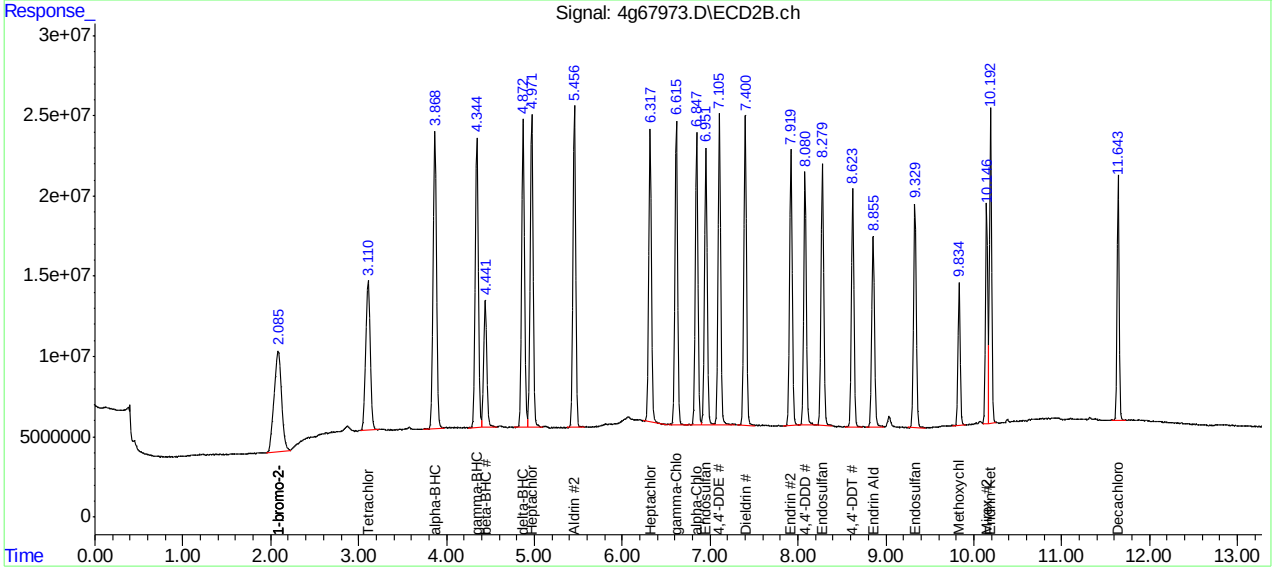
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67973.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:57 pm
Operator : dharas
Sample : cc1778-50
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 15:15:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/09/16 06:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:33:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.813f	2.070	458.4E6	401.0E6	50.000	50.000
25) I	1-bromo-2...	1.813	2.070	458.4E6	401.0E6	50.000	50.000
31) I	1-bromo-2...	1.813	2.070	458.4E6	401.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.599f	3.104	195.2E6	174.8E6	24.692	24.759
	Spiked Amount 40.000 Range 30 - 150 Recovery = 61.73% 61.90%						
24) SA	Decachlor...	10.248	11.644	173.9E6	119.9E6	23.344	23.943
	Spiked Amount 40.000 Recovery = 58.36% 59.86%						
	Target Compounds						
3) A	alpha-BHC	3.158	3.866	260.2E6	250.4E6	24.058	24.259
4) MA	gamma-BHC	3.506	4.344	228.6E6	228.0E6	24.166	24.844
5) MA	Heptachlor	3.849f	4.969	202.7E6	224.0E6	22.835m	23.702
6) B	beta-BHC	3.631f	4.441	100.7E6	108.0E6	22.219m	26.004
7) B	delta-BHC	4.056	4.874	212.0E6	215.0E6	24.601	25.109
8) MB	Aldrin	4.430	5.455	228.3E6	226.2E6	25.205	24.291
9) B	Heptachlo...	5.197	6.316	214.8E6	208.8E6	26.541	24.835
10) B	gamma-Chl...	5.380	6.615	216.7E6	208.4E6	26.770	25.646
11) B	alpha-Chl...	5.561	6.847	215.8E6	202.7E6	24.738	24.841
12) A	Endosulfan I	5.742	6.953	287.0E6	197.5E6	31.976m	25.341
13) B	4,4'-DDE	5.720f	7.107	111.5E6	210.9E6	13.783m	25.914 #
14) MA	Dieldrin	6.084	7.400	221.9E6	211.6E6	26.079	26.044
15) MA	Endrin	6.422	7.920	179.8E6	165.4E6	22.193	22.841
16) A	4,4'-DDD	6.604f	8.083	153.6E6	167.8E6	22.404m	25.513
17) B	Endosulfa...	6.767	8.278	233.1E6	186.5E6	29.904	26.049
18) MA	4,4'-DDT	7.011f	8.624	96948554	132.9E6	20.058	23.122
19) B	Endrin Al...	7.404	8.856	184.6E6	150.0E6	28.054	27.567
20) B	Endosulfa...	8.097	9.332	183.0E6	150.6E6	25.607	25.135
21) A	Methoxychlor	7.832f	9.835	55355664	67124386	18.124m	21.486
22)	Mirex	7.986	10.147	193.5E6	131.6E6	27.159	26.178
23) B	Endrin Ke...	8.559	10.193	221.5E6	175.1E6	26.811	26.618

SemiQuant Compounds - Not Calibrated on this Instrument

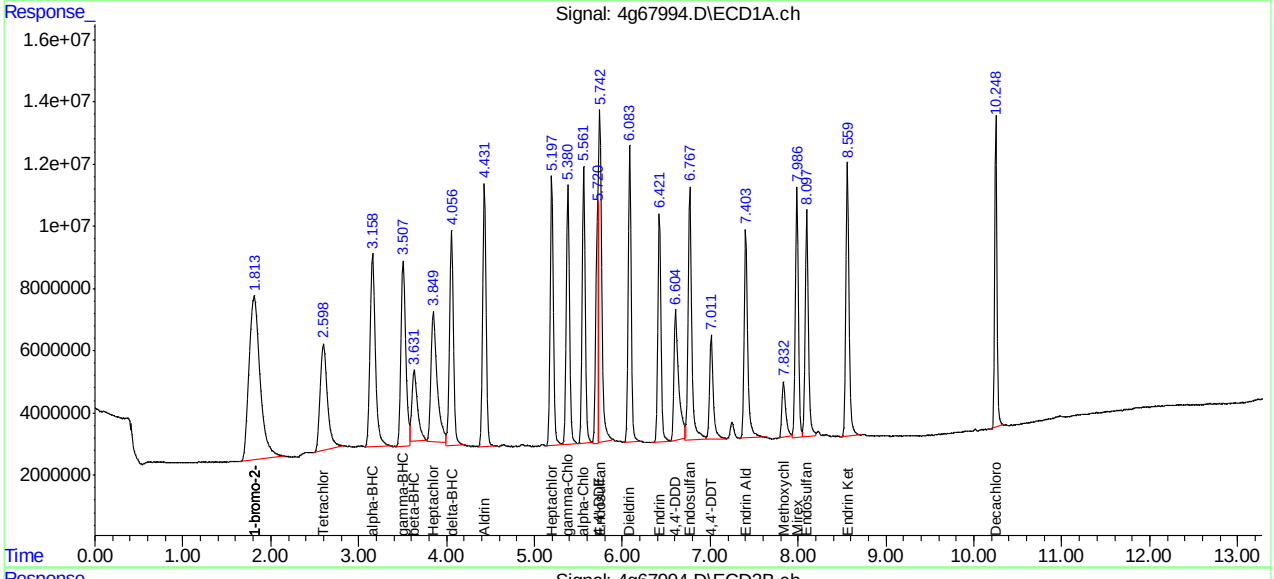
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

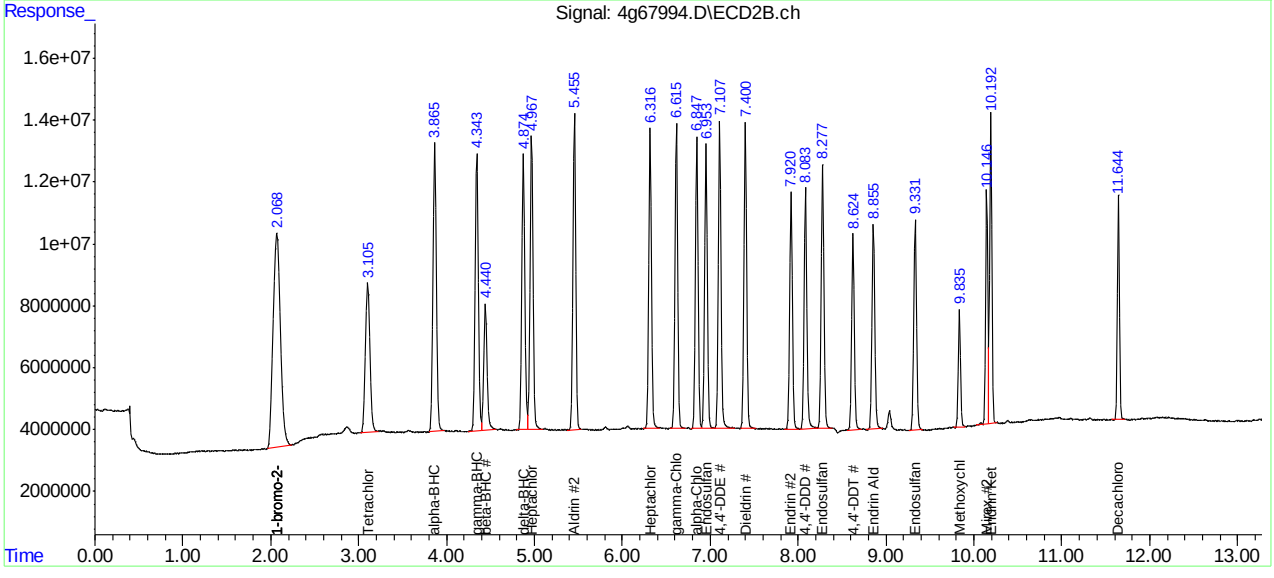
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:33:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1782-CC1778	**Method:**	SW846 8081B
Lab FileID:	4G67994.D	**Analyst approved:**	05/07/16 16:59 Brittany Piercy
Injection Time:	05/06/16 20:15	**Supervisor approved:**	05/09/16 06:55 Gwendolyn Burns

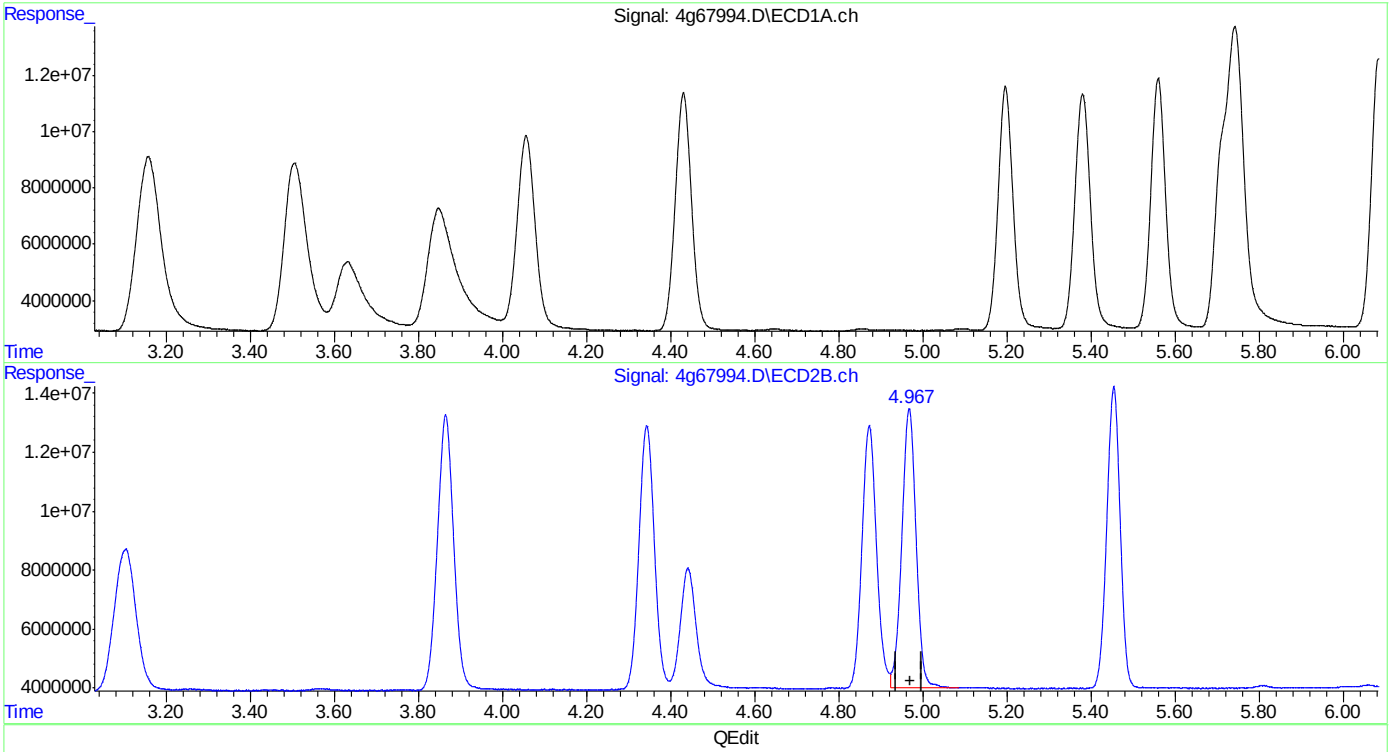
Parameter	CAS	Sig#	R.T. (min.)	Reason
beta-BHC	319-85-7	1	3.63	Poor instrument integration
Heptachlor	76-44-8	1	3.85	Poor instrument integration
4,4'-DDE	72-55-9	1	5.72	Poor instrument integration
Endosulfan-I	959-98-8	1	5.74	Poor instrument integration
4,4'-DDD	72-54-8	1	6.60	Poor instrument integration
Methoxychlor	72-43-5	1	7.83	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(5) Heptachlor (MA)
0.000min 0.000 PPB
response 0

(5) Heptachlor #2 (MA)
4.969min 23.702 PPB
response 224030055

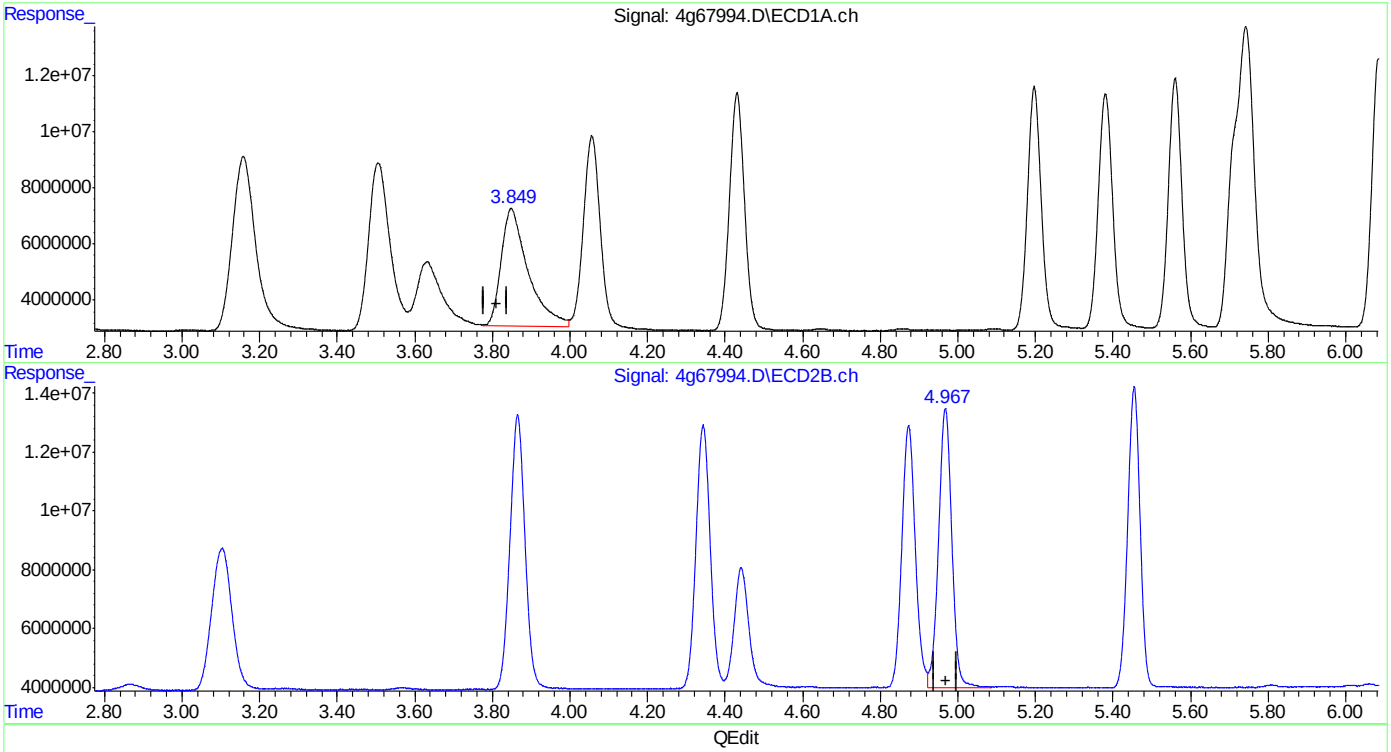
(+) = Expected Retention Time
4PST1778.M Sat May 07 14:30:37 2016 RPT1 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(5) Heptachlor (MA)
3.849min 22.835 PPB m
response 202734368

(5) Heptachlor #2 (MA)
4.969min 23.702 PPB
response 224030055

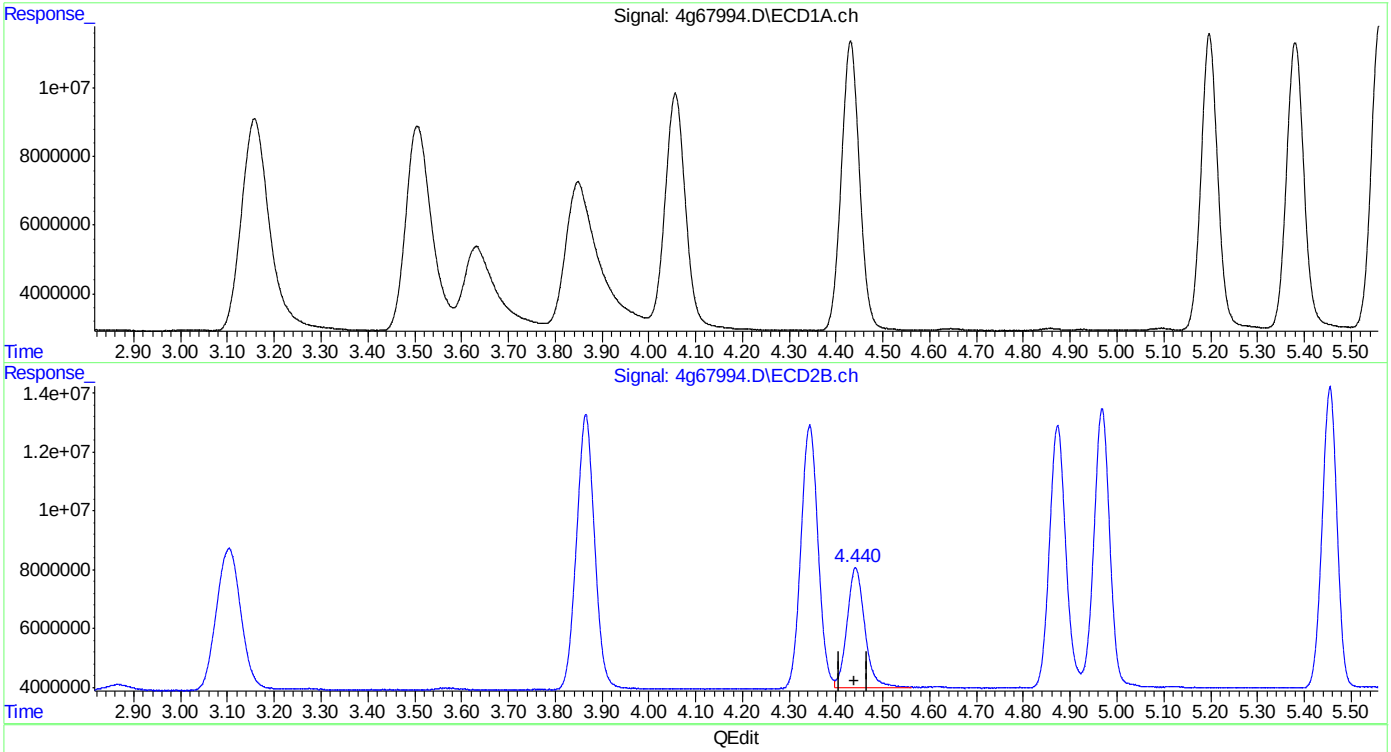
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(6) beta-BHC (B)
0.000min 0.000 PPB
response 0

(6) beta-BHC #2 (B)
4.441min 26.004 PPB
response 108043261

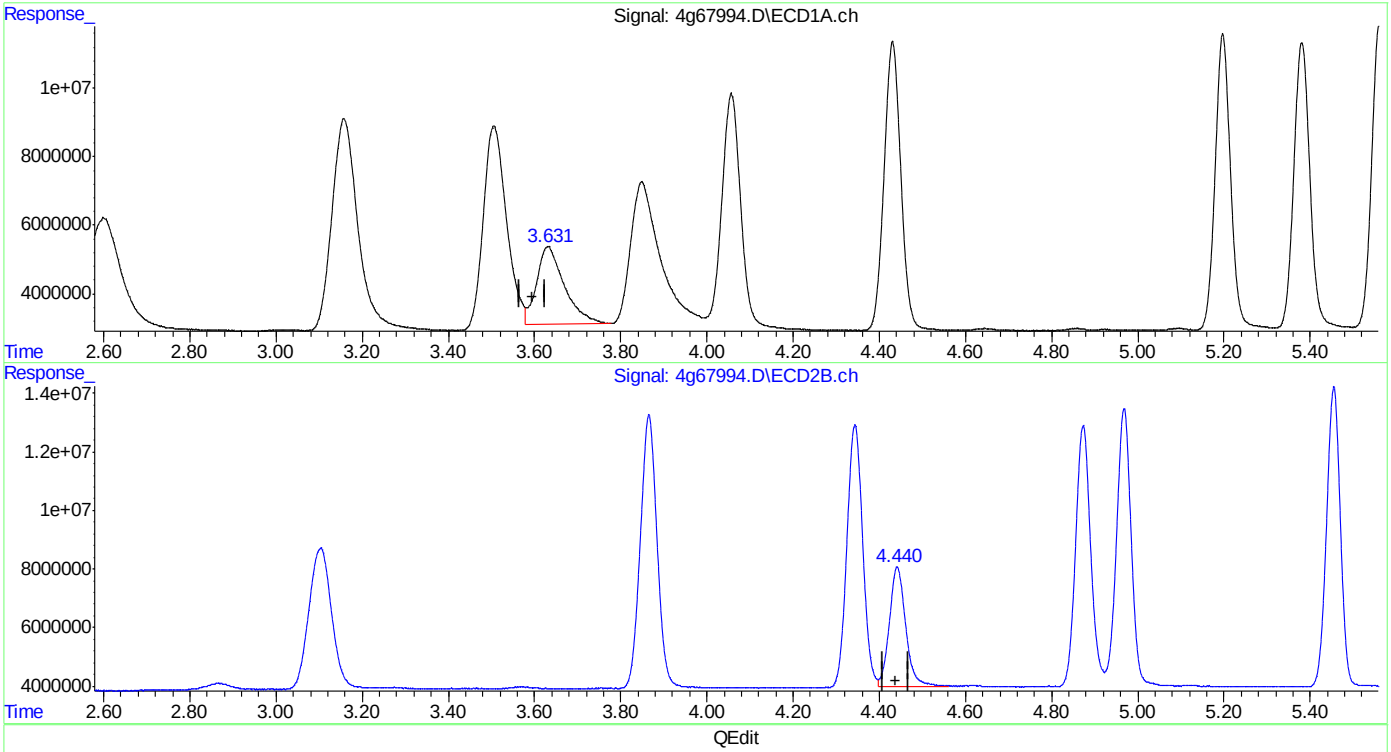
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(6) beta-BHC (B)
3.631min 22.219 PPB m
response 100659402

(6) beta-BHC #2 (B)
4.441min 26.004 PPB
response 108043261

(+) = Expected Retention Time
4PST1778.M Sat May 07 14:31:03 2016 RPT1

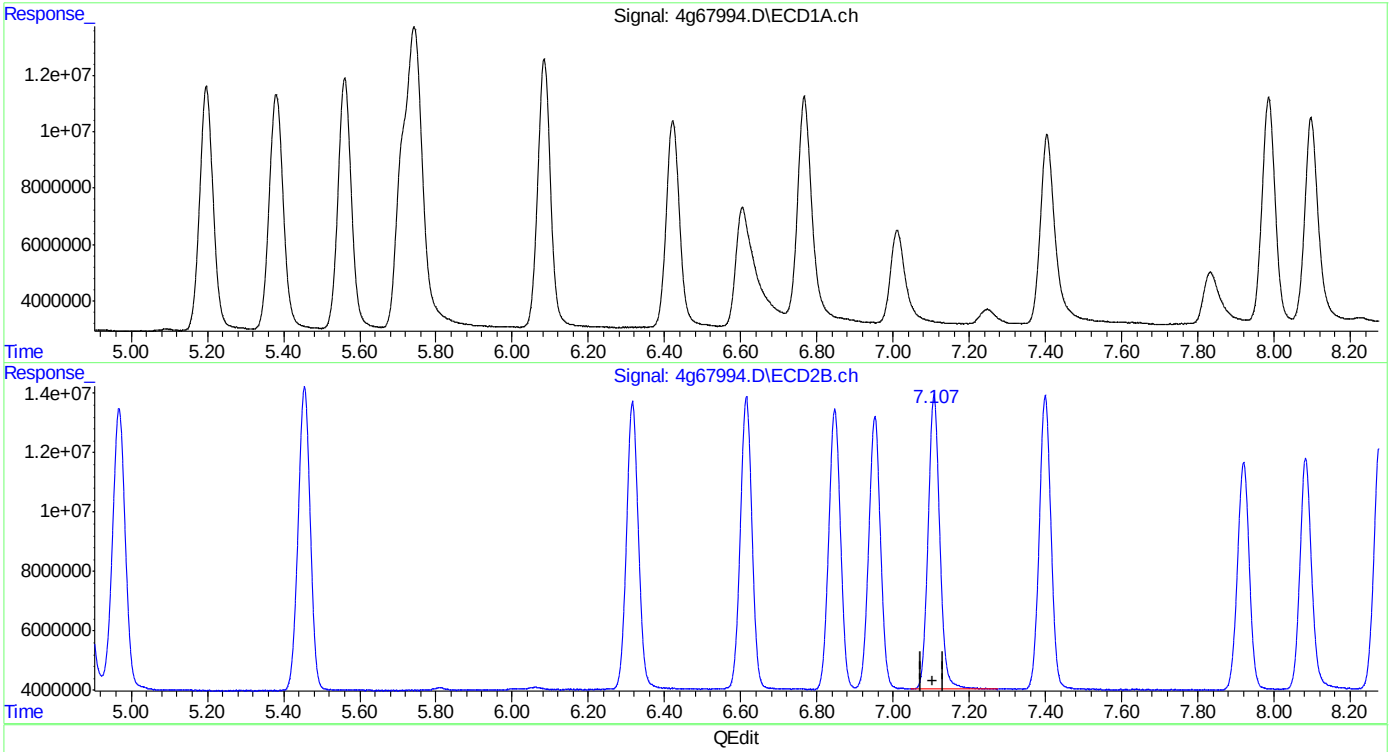
SGS ACCUTEST JC19423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(13) 4,4'-DDE (B)
0.000min 0.000 PPB
response 0

(13) 4,4'-DDE #2 (B)
7.107min 25.914 PPB
response 210921696

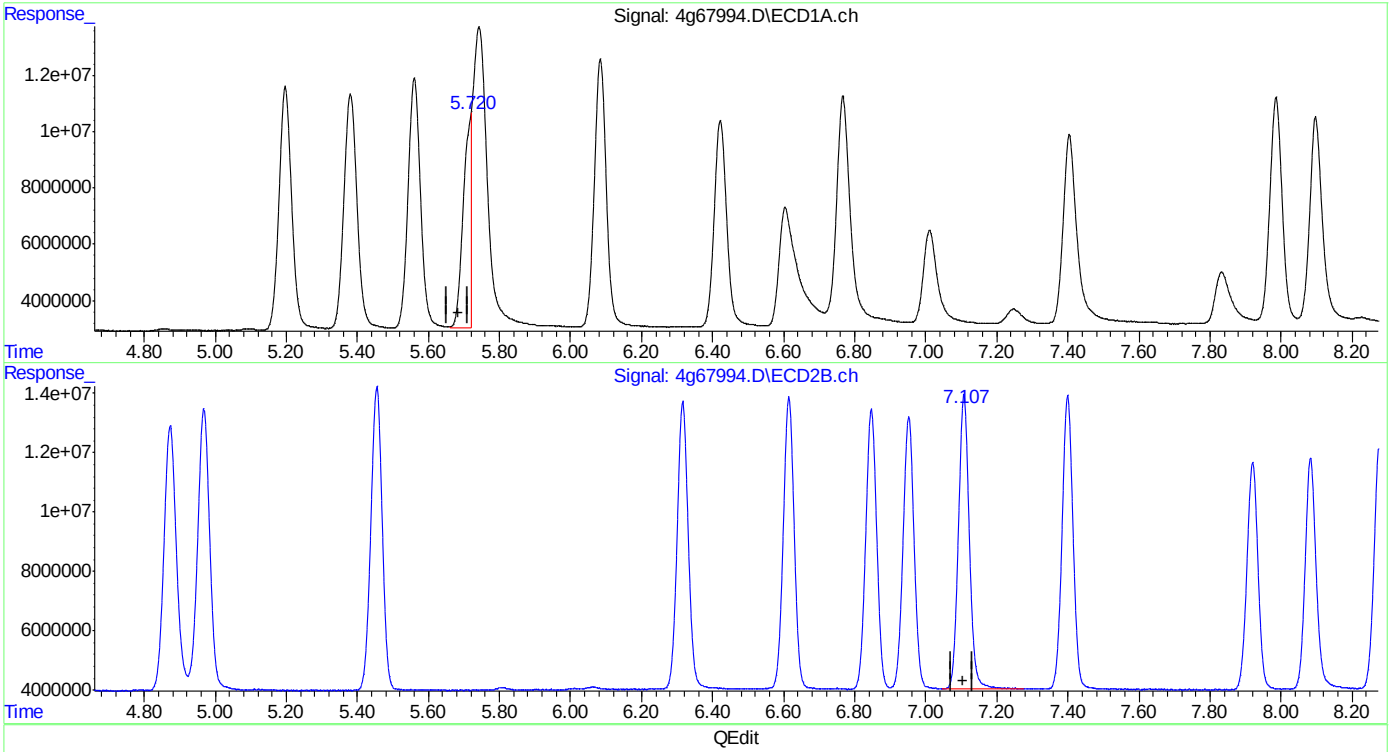
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(13) 4,4'-DDE (B)
5.720min 13.783 PPB m
response 111521699

(13) 4,4'-DDE #2 (B)
7.107min 25.914 PPB
response 210921696

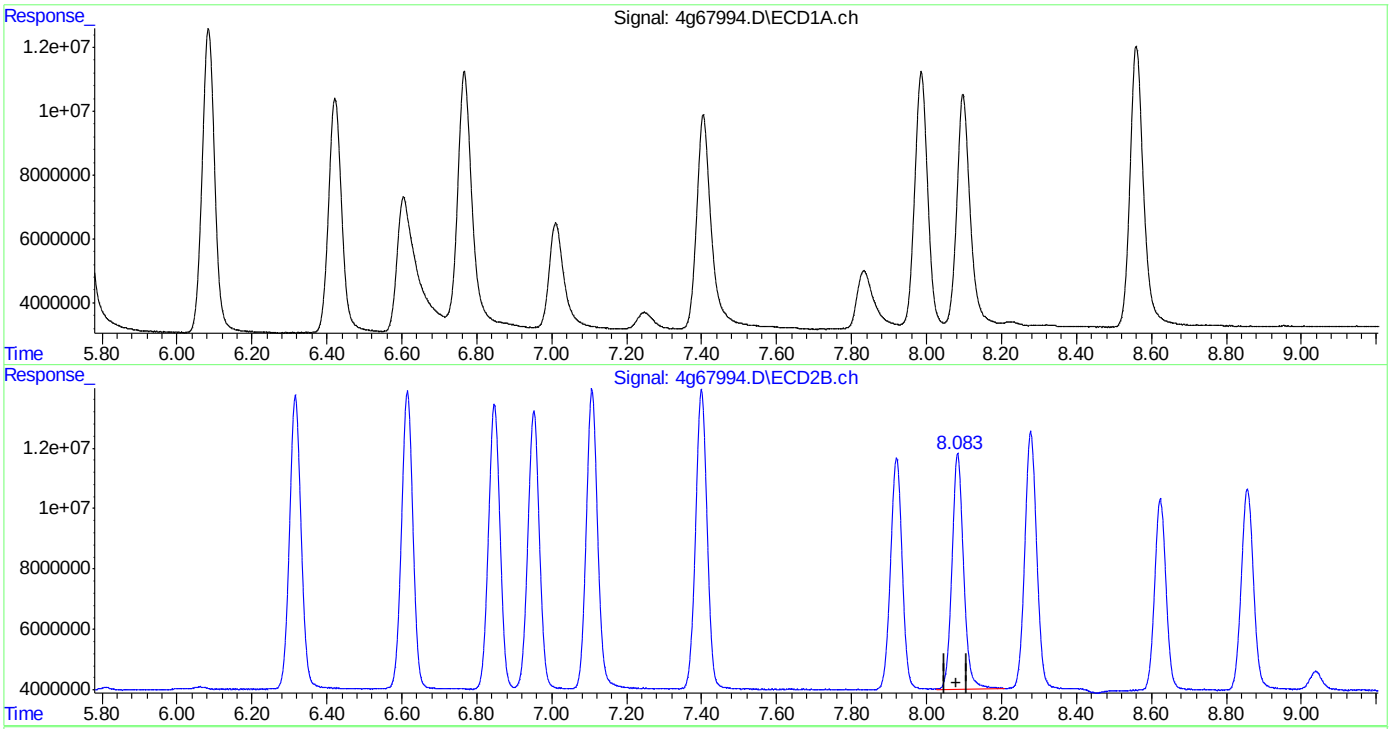
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(16) 4,4'-DDD (A)
0.000min 0.000 PPB
response 0

(16) 4,4'-DDD #2 (A)
8.083min 25.513 PPB
response 167784874

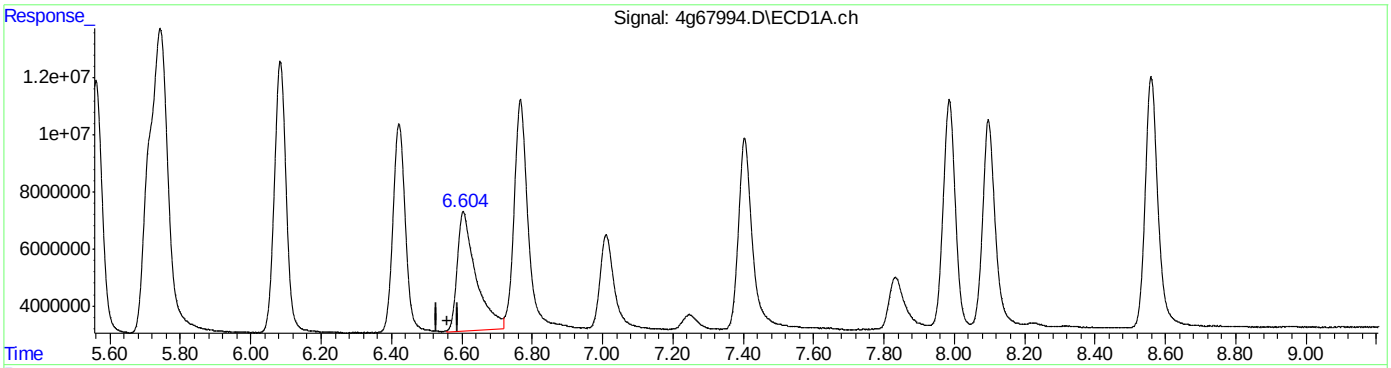
(+) = Expected Retention Time

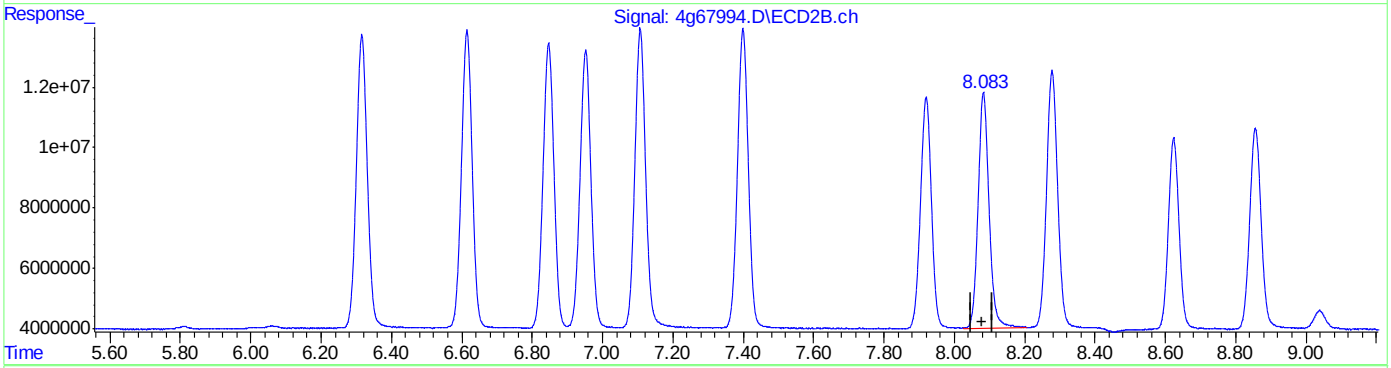
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
6.604min 22.404 PPB m
response 153600472

(16) 4,4'-DDD #2 (A)
8.083min 25.513 PPB
response 167784874

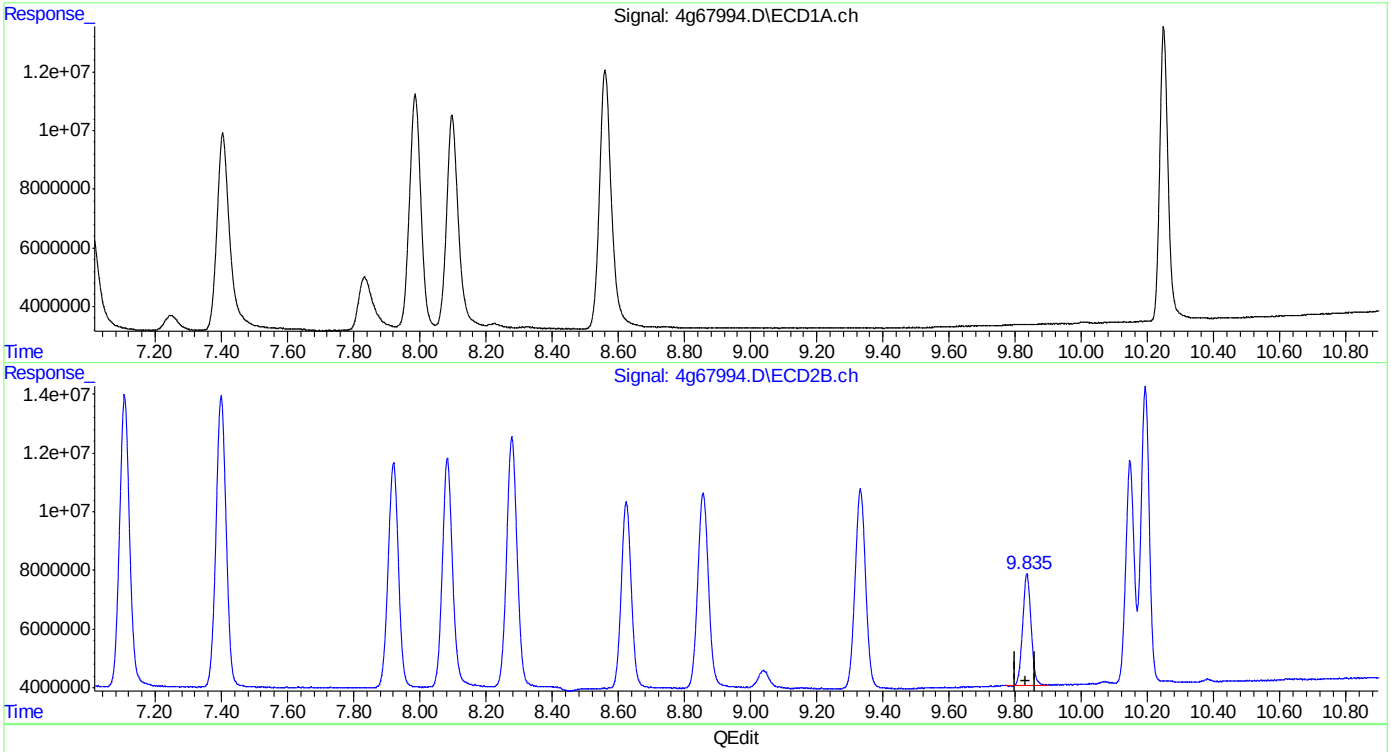
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(21) Methoxychlor (A)
0.000min 0.000 PPB
response 0

(21) Methoxychlor #2 (A)
9.835min 21.486 PPB
response 67124386

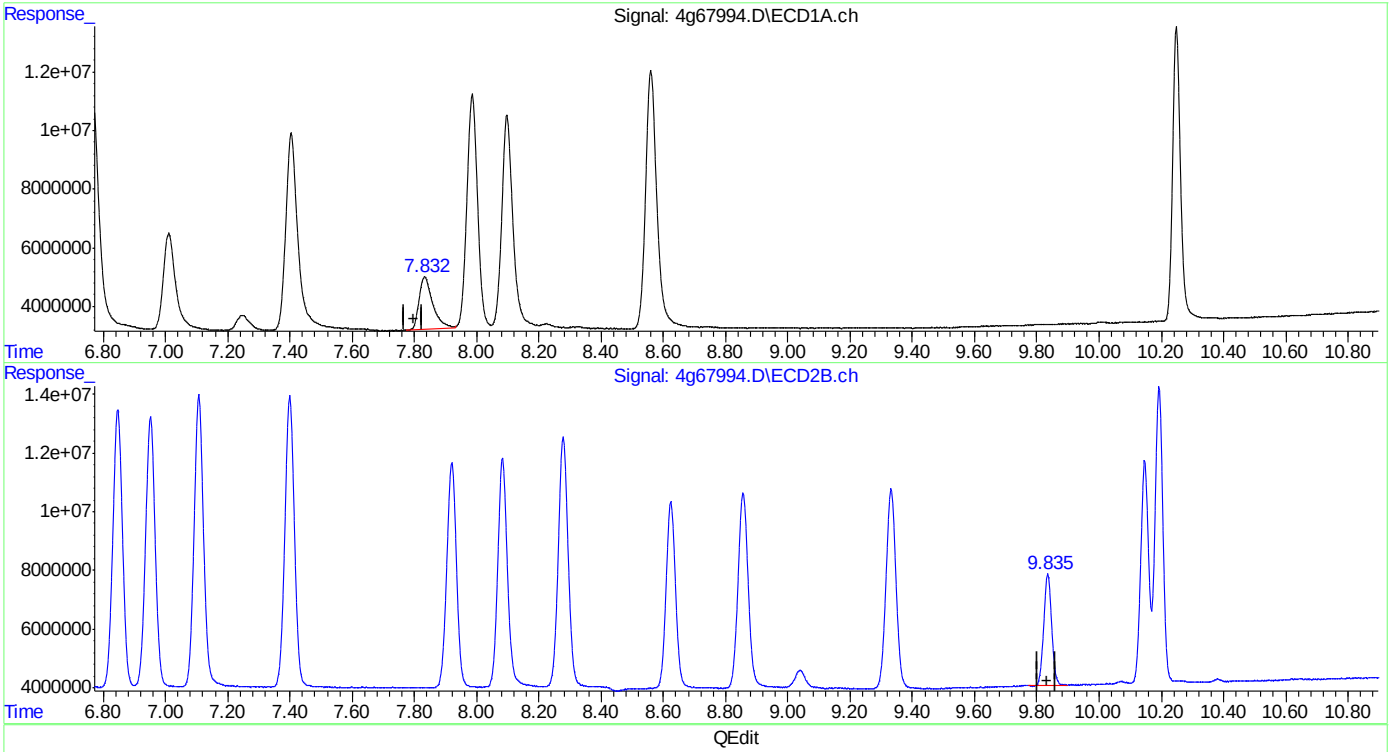
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.832min 18.124 PPB m
response 55355664

(21) Methoxychlor #2 (A)
9.835min 21.486 PPB
response 67124386

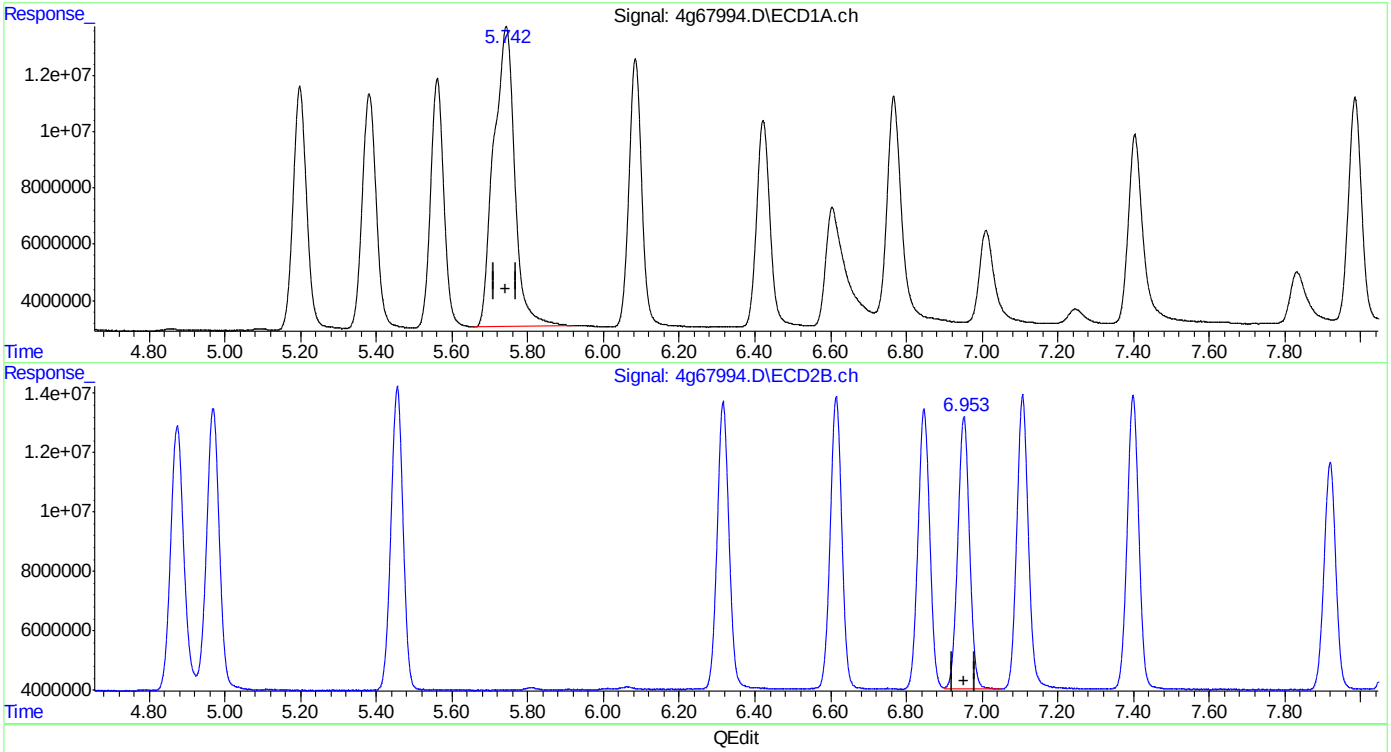
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:32:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(12) Endosulfan I (A)
5.742min 45.802 PPB
response 411033355

(12) Endosulfan I #2 (A)
6.953min 25.341 PPB
response 197475536

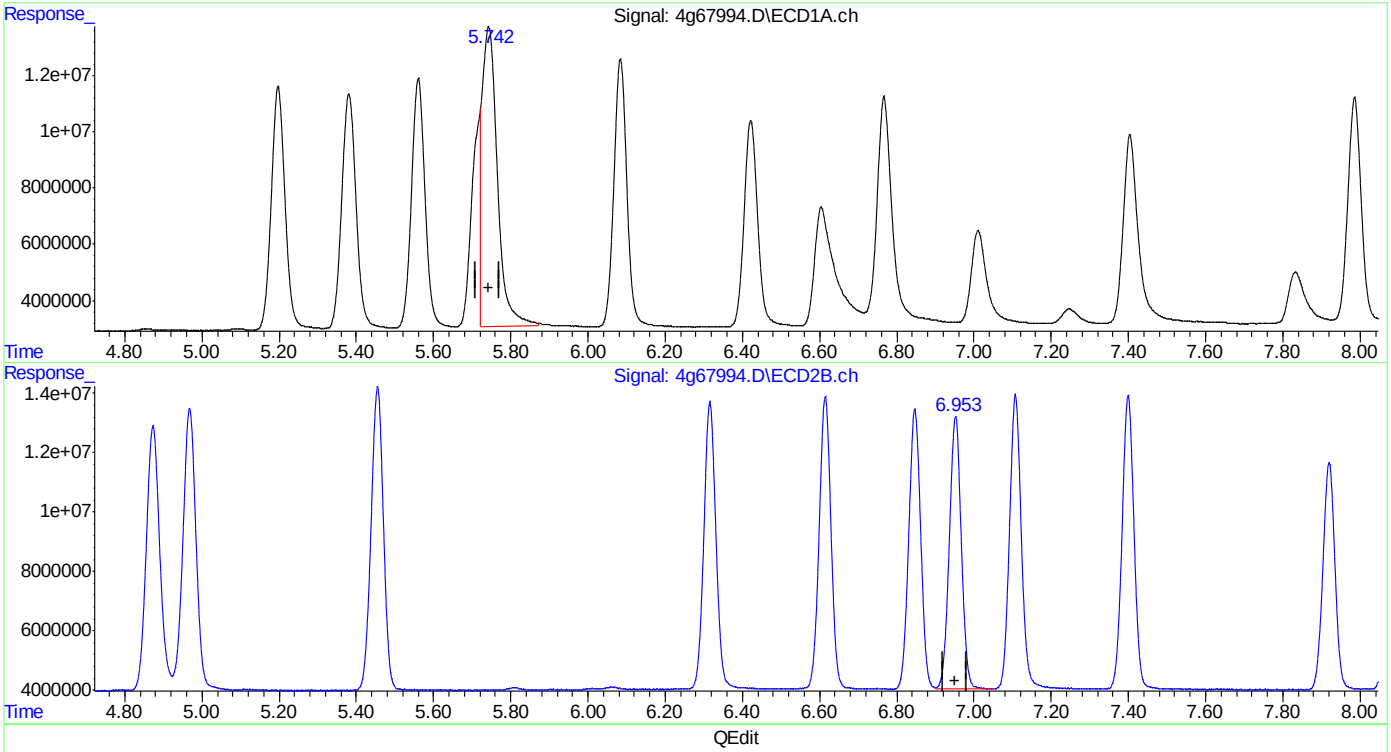
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:32:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(12) Endosulfan I (A)
5.742min 31.976 PPB m
response 286955218

(12) Endosulfan I #2 (A)
6.953min 25.341 PPB
response 197475536

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/09/16 15:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1783\
Data File : 4g68010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 May 2016 3:13 pm
Operator : brittanp
Sample : cc1778-50
Misc : op93683,g4g1783,15.0,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.784	2.050f	440.4E6	378.1E6	50.000	50.000
25) I	1-bromo-2...	1.784	2.050	440.4E6	378.1E6	50.000	50.000
31) I	1-bromo-2...	1.784	2.050	440.4E6	378.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.567	3.091f	375.3E6	345.7E6	49.430m	51.923
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 123.57%	129.81%
24) SA	Decachlor...	10.242	11.640	398.7E6	248.1E6	55.723	52.529
	Spiked Amount	40.000			Recovery	= 139.31%	131.32%
	Target Compounds						
3) A	alpha-BHC	3.137	3.857	546.2E6	508.7E6	52.570	52.256
4) MA	gamma-BHC	3.487	4.337	461.8E6	453.7E6	50.824	52.437
5) MA	Heptachlor	3.809	4.964	467.8E6	471.8E6	54.849	52.942
6) B	beta-BHC	3.592	4.433	229.4E6	200.9E6	52.711	51.271
7) B	delta-BHC	4.048	4.865	460.0E6	448.8E6	55.586	55.580
8) MB	Aldrin	4.422	5.450	452.3E6	446.7E6	51.974	50.879
9) B	Heptachlo...	5.188	6.313	393.9E6	396.1E6	50.662	49.963
10) B	gamma-Chl...	5.370	6.611	401.0E6	401.6E6	51.587	52.417
11) B	alpha-Chl...	5.552	6.843	413.6E6	389.6E6	49.352	50.624
12) A	Endosulfan I	5.738	6.948	464.3E6	381.0E6	53.858	51.847
13) B	4,4'-DDE	5.684	7.103	360.4E6	407.1E6	46.370	53.040
14) MA	Dieldrin	6.075	7.397	445.7E6	412.7E6	54.534	53.862
15) MA	Endrin	6.414	7.916	418.9E6	373.6E6	53.841	54.704
16) A	4,4'-DDD	6.566	8.077	342.4E6	325.8E6	51.992	52.548
17) B	Endosulfa...	6.755	8.274	435.8E6	358.7E6	58.209	53.130
18) MA	4,4'-DDT	6.988	8.620	308.5E6	329.2E6	55.984	60.737
19) B	Endrin Al...	7.391	8.852	341.4E6	272.9E6	54.013	53.207
20) B	Endosulfa...	8.085	9.328	393.1E6	311.0E6	57.287	55.037
21) A	Methoxychlor	7.803	9.832	177.5E6	166.6E6	60.509	56.563
22)	Mirex	7.980	10.144	362.7E6	248.5E6	53.002	52.434
23) B	Endrin Ke...	8.548	10.190	455.0E6	348.4E6	57.326	56.160

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.34

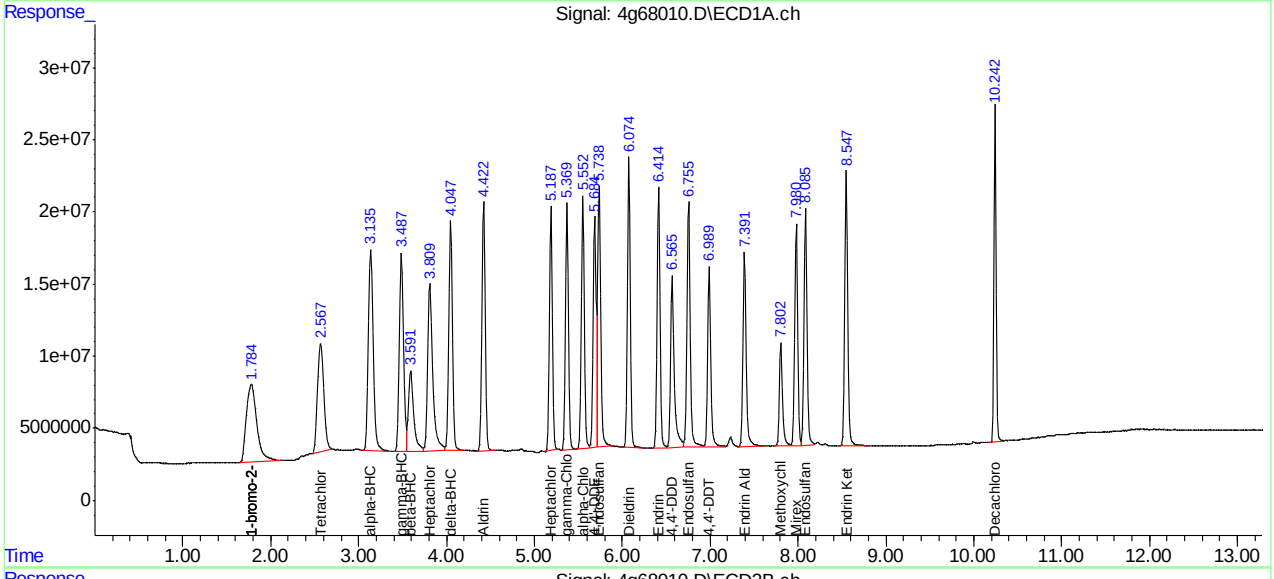
9

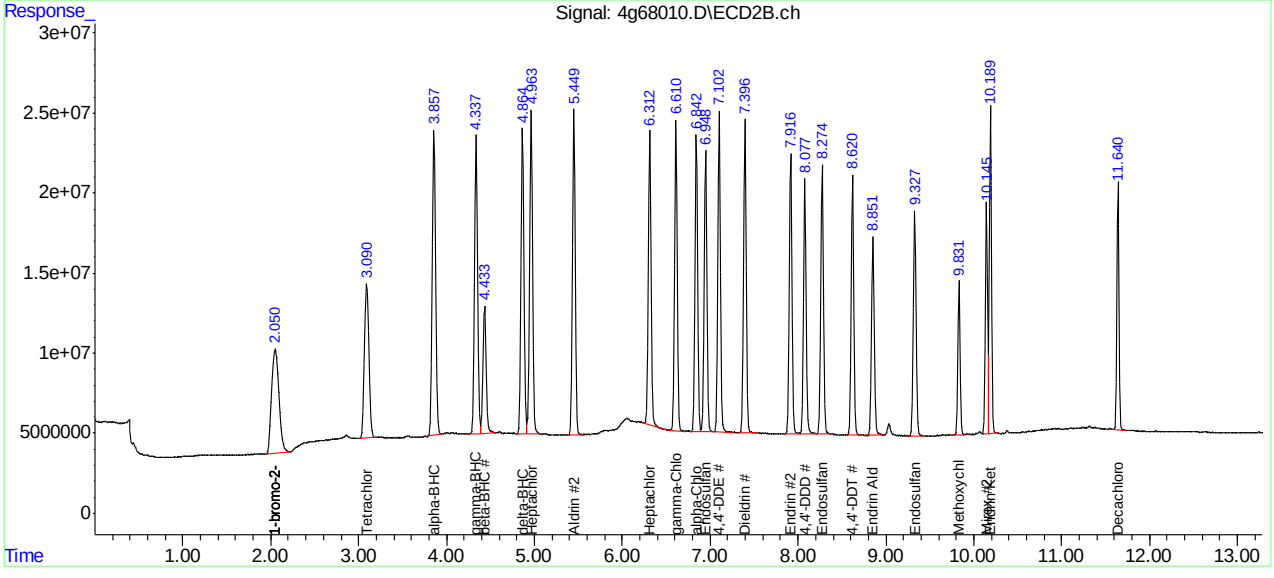
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1783\
Data File : 4g68010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 May 2016 3:13 pm
Operator : brittanp
Sample : cc1778-50
Misc : op93683,g4g1783,15.0,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1783-CC1778	**Method:**	SW846 8081B
Lab FileID:	4G68010.D	**Analyst approved:**	05/09/16 09:19 Brittany Piercy
Injection Time:	05/07/16 15:13	**Supervisor approved:**	05/09/16 15:01 Gwendolyn Burns

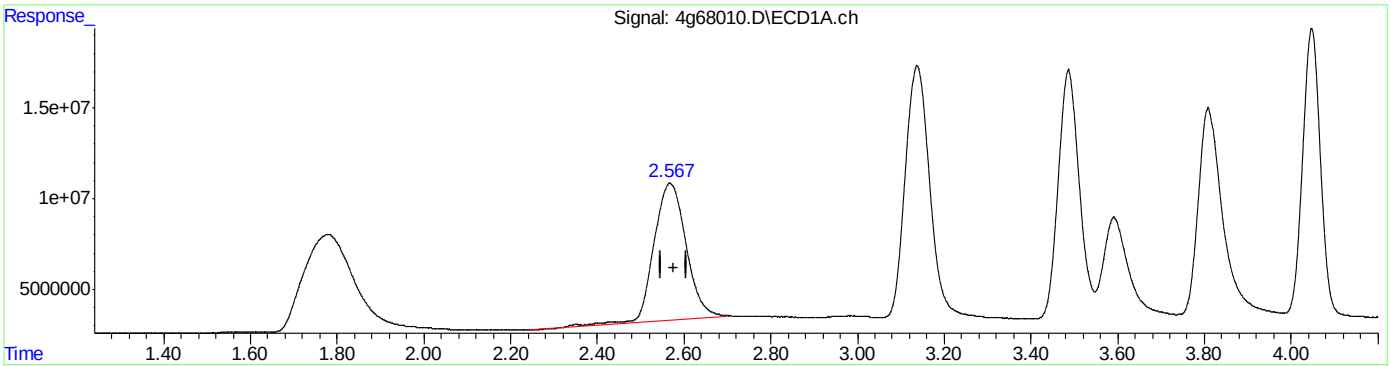
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.57	Poor instrument integration

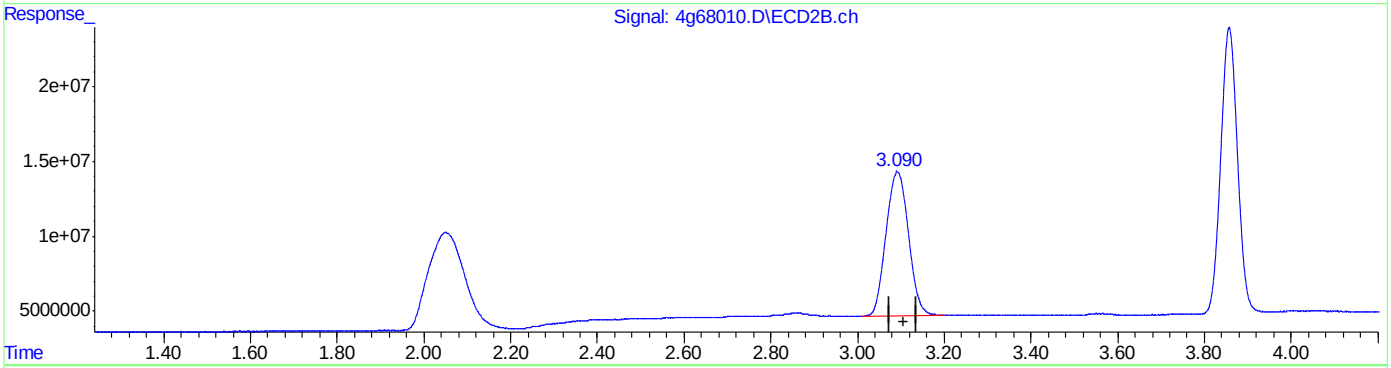
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1783\
Data File : 4g68010.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  7 May 2016   3:13 pm
Operator  : brittanp
Sample    : cc1778-50
Misc      : op93683,g4g1783,15.0,,,10,1
ALS Vial  : 4   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:32:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

2.567min 51.641 PPB

response 392105404

(2) Tetrachloro-m-xylene #2 (SAB)

3.091min 51.923 PPB

response 345744814

(+) = Expected Retention Time

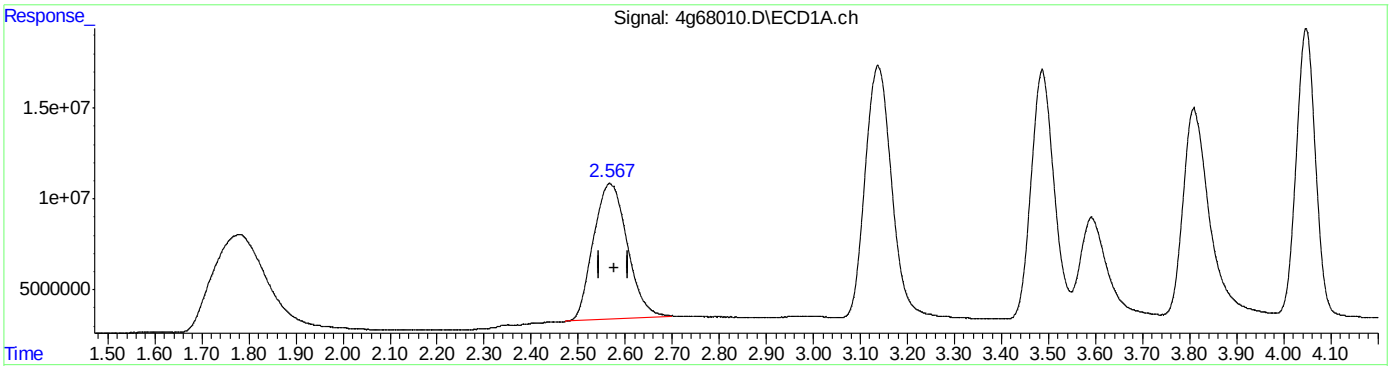
4PST1778.M Sat May 07 15:32:58 2016 RPT1

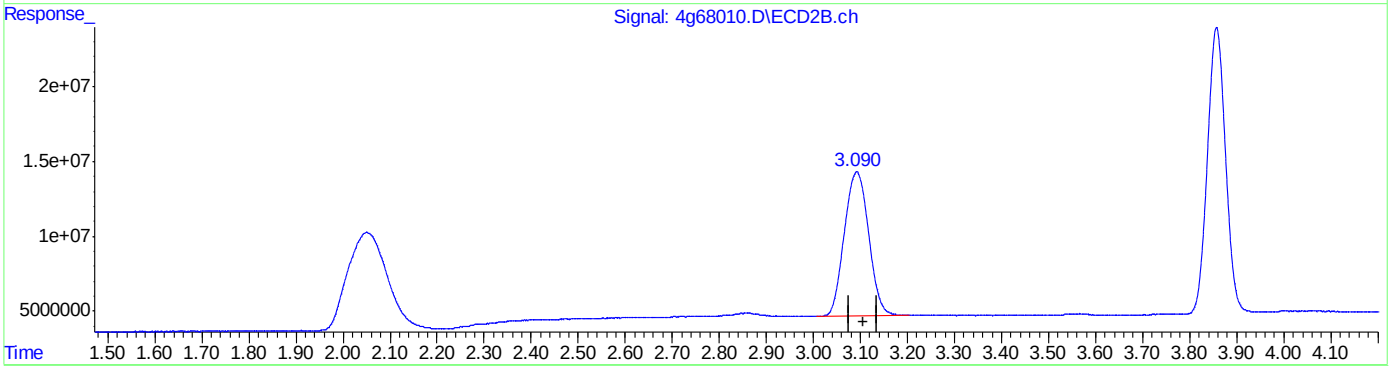
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1783\
Data File : 4g68010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 May 2016 3:13 pm
Operator : brittanp
Sample : cc1778-50
Misc : op93683,g4g1783,15.0,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:32:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.567min 49.430 PPB m
response 375322418

(2) Tetrachloro-m-xylene #2 (SAB)
3.091min 51.923 PPB
response 345744814

(+) = Expected Retention Time

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: 0-16 3973

Print Analyst Name: Dhara Saporia

Date: 04/27/16

Analyst Signature: DS

Columns: 2BCLPI / 2BCLPII

Method 8081, 608

Initial Cal. Method IPST 3973

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.
SV161874-1mA	pest mix 1st source	25 ppb
-1mB		50
-1mC		1
-1mD		2
-1mE		5
-1mF		10
-1mG		75
-1mH		100
OP153564-137	mirex 2nd source	250 ppb

Standard Data

Lot #	Description	Conc.
SV161874-135	pest ISTD	5 ppm
-74	PEM	10-250 ppb
-57	IB	20 ppb
-20	chlordane 1st	90 ppm
-21	Toxaphene 1st	10 ppm
-95	pest mix 2nd source	250 ppb
-96	chlordane 2nd source	500 ppb
-97	Toxaphene 2nd source	500 ppb
160863	Hexane	

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: JK **Date:** 4/28/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	18122523	ddt				1			✓	OK	
	524	IB				2			✓	OK	
	525	IC3973-1	1st source			3			✓	OK	
	526	-2				4			✓	OK	
	527	-5				5			✓	OK	
	528	-10				6			✓	OK	
	529	ICC3973-25				7			✓	OK	
	530	IC3973-50				8			✓	OK	
	531	-75				9			✓	OK	
	532	-100				10			✓	OK	
	533	-500		CHL		11	20		✓	OK	
	534	-500		TOX		12	20		✓	OK	
	535	ICV3973-25	2nd source	pest		13	10		✓	OK	
	536	-25		mirex		14	10		✓	OK	
	537	-500		CHL		15			✓	OK	
	538	-500		TOX		16			✓	OK	

DK 4/27

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G3977

Print Analyst Name: Brittany Piercy

Analyst Signature: B.P.

Date: 05/02/2016

Columns: ZBCLPI / ZBCLPII

Method 8081 / 608

Initial Cal. Method 1PST3973

Injection Volume: 1µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM6189-135	Pest ISTD	5ppm
-79	Pem	10-250ppb
-148A	Pest Mix	25
-148B	DP 5/2/16 ~~IB~~ 1	50
-87	IB	20
1608163	Hexane (Fisher)	—

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: SD **Date:** 5/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	lg 122639	ddt			W	1				OK	
	640	CC3973-25				2				OK	Delta BHC ↑ 1st Mirex ∝ DCB ↓ 1st
	641	I.B.				3				OK	
	642	OP93104-MB1	93104-1	8081 Dieldrn SPLP	W	5				OK	
	643	-BS1				6				OK	
	644	-LB11				7				OK	
	645	-LS7				8				OK	
	646	-MSD				9				OK	
	647	JC18119-1A~~Q~~xh				10				OK	
	648	OP93517-MB1	93517-1	8081 TCL	S	11				OK	Ran Before 122644
	649	-BS1				12				OK	
	650	JC19191-1				13				OK	
	651	JC19192-1				14				OK	
	652	-2				15				OK	
	653	OP93517-MS				16				OK	
	654	-MSD				17				OK	
	655	JC19193-1				18				OK	
	656	-2				19				OK	
	657	ddt				~~20~~	DP 5/2/16			OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

9.7.2 9

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G 3977

Print Analyst Name: Dhesa Saporio

Date: 05/02/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1615-W-135	Pest IS/TD	5 ppm
-74	PCM	10-250 ppb
-87	IB	20 ppb
-100	Pest mix	25
-100	Pest mix	50
160563	Hexane (Fisher)	–

Columns: 2DCLPI / 2DCLPII

Method 8081

Initial Cal. Method 1G5T3973

Injection Volume: 1.0 uL

Date Archived:

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: SB

Date: 5/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12122658	CC3973-50				4				OK	Mirex, DCB 1st variable 7 1st
	659	IB				3				OK	
	660	OP93501-MD1	93502	8081 Tcl	W	5				OK	
	661	-DS1				6				NG	deb ↑ one signal
	662	OP93509-MD1	93509	8081 Tcl	W	7				OK	
	663	-DS1				8				OK	
	664	-MS				9				OK	
	665	-MSD				10				OK	
	666	JC19423-2				11				OK	
	667	JC19247-1A	93501	8081 Tcl	W	12				Not using	Rx BS ↑
	668	-2A				13					
	669	-3A				14					
	670	-4A				15					
	671	-5A				16					
	672	-6A				17					
	673	-7A				18					
	674	JC19252-1A				19					
	675	JC19253-1A				20					
	676	JC19136-5A	93502			21					

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

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9.7.2 9

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: 01G 3978

Print Analyst Name: Dhara Saparia

Date: 05/03/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161[illegible]	Pest DSO	5 ppm
-741	PCM	10 250 ppb
-1468	Pest mix	25 ppb
-1499	Pest mix	50
161922-04	DB	20
160863	Hexane Chlorin	–

Columns: 2DCLPD / 2DCLPM

Method 8081

Initial Cal. Method 1PST 3973

Injection Volume: 1.0 ul

Date Archived:

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: JR Date: 5/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12122688	dblt				1				OK	
	689	cc3973-25				2				OK	
	690	DB				3				OK	
	691	OP93543-MD1	93543	8081 TCLP	W	5				OK	
	692	-MS1				6				OK	
	693	-LB19				7				OK	
	694	JC19390-10A				8				OK	
	695	-20A				9				OK	
	696	-25A				10				OK	
	697	OP93543-LS3				11				OK	+MS
	698	-MSD				12				OK	
	699	JC19390-30A				13				OK	
	700	JC19390-5A				14				OK	
	701	-15A				15				OK	
	702	-35A				16				OK	
	703	JC19395-1				17				OK	
	704	-2				18				OK	
	705	JC19343-1A				19				OK	
	706	JC19323-1				20				OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

1

Form: OR016-08
Rev. Date: 1/19/16

9.7.3

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SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G 3978

Print Analyst Name: Dhara Sarpani

Analyst Signature: [signature]

Date: 05/03/16

Columns: 2DCLPP / 2DCLPA

Method: 8081

Initial Cal. Method: 1PST 3973

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1618724-133	PCBs 1016	5 PPM
-74	PCBs	10-250 PPM
-1 mix	PCBs mix	25 PPM
-1 mix	PCBs mix	50
1619133-09	IS	20
1605-63	Hexane (Fisher)	—

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: 5/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	MALS #	Dilution	IS	SU	Status (Data)	Comments
	12122707	JC19340-11A	93543	8081 TCLP	W	21				OK	
	708	-12A				22				OK	
	709	-13A				23				OK	
	710	debt				1				OK	
	711	CC3973-50				4				OK	Various 1st, deb 1st
	712	IS				3				OK	
	713	OP93546-MS1	93546	8081 TCL		5				OK	
	714	-MS1				6				OK	
	715	JC19200-1				7				OK	
	716	OP93546-MS				8				OK	
	717	-MSD				9				OK	
	718	JC19200-2				10				OK	
	719	-3				11				OK	
	720	-4				12				OK	
	721	-5				13				OK	RR 1:5
	722	-6				14				OK	RR 1:10
	723	-7				15				OK	
	724	-8				16				OK	RR 1:5
	725	-9				17				OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

3

Form: OR016-08
Rev. Date: 1/19/16

9.7.3

9

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G3978

Print Analyst Name: Dhera Saparia

Date: 5/3/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
[illegible]	Rest IRTD	5 PPM

Columns: DBCLPI / DBCLPII

Method 8081

Initial Cal. Method 1ST 3973

Injection Volume: 1.0 uL

Date Archived:

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: JP Date: 5/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12122726	JC19200-10	93546	8081 TCL		18				OK	
	727	JC19202-1				19				OK	
	728	JC19379-11A	93543	8081 TCL	W	20				OK	
	729	-12A				21				OK	

BP 5/04/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

5

Form: OR016-08
Rev. Date: 1/19/16

9.7.3

9

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: anc-1778

Print Analyst Name: Dhara Sapara

Analyst Signature:

Date: 05/02/16

Columns: 2ncLPT | 2nCLPT

Method 8081, 608

Initial Cal. Method MPST 1778

Injection Volume: 1.0ul

Date Archived:

Standard Data

Lot #	Description	Conc.
SV1615724-1HSA	Pest mix 1st source	25 ppb
-1HSB		50
-1HSC		1
-1HSD		2
-1HSE		5
-1HSF		10
-1HSG		25
-1HSH		100
CP1515624-137	mix + 2nd source	250 ppb

Standard Data

Lot #	Description	Conc.
SV1615724-125	Pest IS/SD	5 ppm
-71	PCM	10-250 ppb
-87	IB	200 ppb
-20	chlordane 1st	10 ppm
-31	Toxaphene 1st	10 ppm
-95	Pest mix 2nd source	250 ppb
-96	chlordane 2nd source	500 ppb
-97	Toxaphene 2nd source	500 ppb

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: JR Date: 5/4/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	h2678-30	blank				1			/	ok	
	831	IB				2			/	ok	
	832	IC 1778-1	1st source	Pest mix		3			/	ok	
	833	-2				4			/	ok	
	834	-5				5			/	ok	
	835	-10				6			/	ok	
	836	IC 1778-25				7			/	ok	
	837	IC 1778-50				8			/	ok	
	838	-75				9			/	ok	
	839	-100				10			/	ok	
	840	-500		CHL		11	20		/	ok	
	841	-500		TOX		12	20		/	ok	
	842	IC 1778-25	2nd source	Pest		13	10		/	ok	
	843	-25		mix		14	10		/	ok	
	844	-500		CHL		15			/	ok	
	845	-500		TOX		16			/	ok	

JR 5/3/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST JC19423

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RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC4G
Method: SW846 8081B

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	4G67836.D	05/02/16 15:26	G4G1778-ICC1778	DHARAS
Std#2	4G67851.D	05/03/16 17:05	G4G1779-CC1778	DHARAS
Std#3	4G67868.D	05/04/16 08:33	G4G1780-CC1778	BRITTANP

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
1-Bromo-2-nitrobenzene	1	ISTD	1.80	1.78	1.78	1.79	0.012	+/- 0.035
1-Bromo-2-nitrobenzene	2	ISTD	2.07	2.06	2.05	2.06	0.010	+/- 0.030
Tetrachloro-m-xylene	1	SURR	2.59	2.58	2.57	2.58	0.010	+/- 0.030
Decachlorobiphenyl	1	SURR	10.25	10.25	10.25	10.25	0.000	+/- 0.030 [a]
Tetrachloro-m-xylene	2	SURR	3.11	3.10	3.10	3.10	0.006	+/- 0.030 [a]
Decachlorobiphenyl	2	SURR	11.66	11.65	11.65	11.65	0.006	+/- 0.030 [a]
alpha-BHC	1	REG	3.15	3.14	3.14	3.14	0.006	+/- 0.030 [a]
gamma-BHC (Lindane)	1	REG	3.50	3.49	3.49	3.49	0.006	+/- 0.030 [a]
beta-BHC	1	REG	3.61	3.60	3.60	3.60	0.006	+/- 0.030 [a]
Heptachlor	1	REG	3.82	3.81	3.81	3.81	0.006	+/- 0.030 [a]
delta-BHC	1	REG	4.06	4.05	4.05	4.05	0.006	+/- 0.030 [a]
Aldrin	1	REG	4.44	4.43	4.43	4.43	0.006	+/- 0.030 [a]
Heptachlor epoxide	1	REG	5.20	5.20	5.19	5.20	0.006	+/- 0.030 [a]
gamma-Chlordane	1	REG	5.39	5.38	5.38	5.38	0.006	+/- 0.030 [a]
alpha-Chlordane	1	REG	5.57	5.56	5.56	5.56	0.006	+/- 0.030 [a]
4,4'-DDE	1	REG	5.69	5.69	5.69	5.69	0.000	+/- 0.030 [a]
Endosulfan-I	1	REG	5.75	5.75	5.74	5.75	0.006	+/- 0.030 [a]
Dieldrin	1	REG	6.09	6.09	6.08	6.09	0.006	+/- 0.030 [a]
Endrin	1	REG	6.43	6.43	6.42	6.43	0.006	+/- 0.030 [a]
4,4'-DDD	1	REG	6.57	6.57	6.57	6.57	0.000	+/- 0.030 [a]
Endosulfan-II	1	REG	6.77	6.77	6.76	6.77	0.006	+/- 0.030 [a]
4,4'-DDT	1	REG	7.00	7.00	6.99	7.00	0.006	+/- 0.030 [a]
Endrin aldehyde	1	REG	7.40	7.40	7.40	7.40	0.000	+/- 0.030 [a]
Methoxychlor	1	REG	7.81	7.81	7.81	7.81	0.000	+/- 0.030 [a]
Mirex	1	REG	8.00	7.99	7.99	7.99	0.006	+/- 0.030 [a]
Endosulfan sulfate	1	REG	8.10	8.10	8.09	8.10	0.006	+/- 0.030 [a]
Endrin ketone	1	REG	8.56	8.56	8.56	8.56	0.000	+/- 0.030 [a]
alpha-BHC	2	REG	3.87	3.87	3.86	3.87	0.006	+/- 0.030 [a]
gamma-BHC (Lindane)	2	REG	4.35	4.35	4.34	4.35	0.006	+/- 0.030 [a]
beta-BHC	2	REG	4.45	4.44	4.44	4.44	0.006	+/- 0.030 [a]
delta-BHC	2	REG	4.88	4.87	4.87	4.87	0.006	+/- 0.030 [a]
Heptachlor	2	REG	4.98	4.97	4.97	4.97	0.006	+/- 0.030 [a]
Aldrin	2	REG	5.47	5.46	5.46	5.46	0.006	+/- 0.030 [a]
Heptachlor epoxide	2	REG	6.33	6.33	6.32	6.33	0.006	+/- 0.030 [a]
gamma-Chlordane	2	REG	6.63	6.62	6.62	6.62	0.006	+/- 0.030 [a]
alpha-Chlordane	2	REG	6.86	6.86	6.85	6.86	0.006	+/- 0.030 [a]
Endosulfan-I	2	REG	6.97	6.96	6.96	6.96	0.006	+/- 0.030 [a]
4,4'-DDE	2	REG	7.12	7.12	7.11	7.12	0.006	+/- 0.030 [a]
Dieldrin	2	REG	7.41	7.41	7.41	7.41	0.000	+/- 0.030 [a]
Endrin	2	REG	7.93	7.93	7.93	7.93	0.000	+/- 0.030 [a]

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC4G
Method: SW846 8081B

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	4G67836.D	05/02/16 15:26	G4G1778-ICC1778	DHARAS
Std#2	4G67851.D	05/03/16 17:05	G4G1779-CC1778	DHARAS
Std#3	4G67868.D	05/04/16 08:33	G4G1780-CC1778	BRITTANP

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
4,4'-DDD	2	REG	8.09	8.09	8.09	8.09	0.000	+/- 0.030 [a]
Endosulfan-II	2	REG	8.29	8.29	8.28	8.29	0.006	+/- 0.030 [a]
4,4'-DDT	2	REG	8.64	8.63	8.63	8.63	0.006	+/- 0.030 [a]
Endrin aldehyde	2	REG	8.87	8.87	8.86	8.87	0.006	+/- 0.030 [a]
Endosulfan sulfate	2	REG	9.35	9.34	9.34	9.34	0.006	+/- 0.030 [a]
Methoxychlor	2	REG	9.84	9.84	9.84	9.84	0.000	+/- 0.030 [a]
Mirex	2	REG	10.16	10.16	10.15	10.16	0.006	+/- 0.030 [a]
Endrin ketone	2	REG	10.20	10.20	10.20	10.20	0.000	+/- 0.030 [a]

(a) Default minimum StdDev of .01 minutes employed.

9.7.4

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SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G1782

Print Analyst Name: Brittany Piercy

Date: 05/06/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM16874-125	Pest ISTD	5ppm
-79	Pem	10-250ppb
-148A	Pest Mix	25 ppb
-148B	1	50
-87	I.B.	20
1608063	Hexane (Fisher)	—

Columns: ZBCLPI | ZBCLPII

Method 8081/1608

Initial Cal. Method 4PST 1778

Injection Volume: 1µL

Date Archived:

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: JP **Date:** 5/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4g 67942	ddt			W	1				OK	
	943	cc1778-25				2				OK	
	944	I.B.				3				OK	
	945	OP93657-MB1	93657-1	8081 TCLP	W	5				OK	
	946	-BS1				6				OK	
	947	OP93667-MB1	93667-1	8081 TCL	W	7				NOT RUN	Cut from Sequence
	948	-BS1				8				↓	↓
	949	-BSD				9				↓	↓
	950	JC19523-1	93657-1	8081 TCLP	W	10				OK	
	951	JC18915-5R				11				OK	
	952	JC19524-1				12				OK	
	953	JC19569-1				13				NOT RUN	Cut from Seque
	954	-2				14				↓	↓
	955	JC19559-1				15				↓	↓
	956	JC19558-7A				16				↓	↓
	957	JC19573-6A				17				↓	↓
	958	-13A				18				↓	↓
	959	OP93657-LB28				19				↓	↓
	960	-LB29				20				NOT RUN	Cut from Sequence

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G1782

Print Analyst Name: Brittany Pierce

Analyst Signature: B.P.

Date: 05/06/2016

Columns: ZBCLPI / ZBCLPII

Method 8081 / 608

Initial Cal. Method 4PST 1778

Injection Volume: 1 µl

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
8M61874-136	Pest ISTD	5ppm
-79	Pem	10-250ppb
-148B	Pest Mix	50
-148A	1	25
-87	I.B.	20
1608663	Hexane (Fisher)	—

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: JP **Date:** 5/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4g 67951	OP93657-LS15	93657-1	8081 TCLP	W	21				NOT RUN	Cut from sequence. +MS also
	962	-MSD				22				↓	↓
	963	JC13380-46	93667-1	8081 TCL	W	23				NOT RUN	Cut from Sequence
	947	OP93665-MB1	93665-1	8081 TCL	W S	7				OK	
	948	-BS1		BPS 6/16		8				OK	
	960	JC19644-1				20				OK	Ran Before "4g67952"
	961	-2				21				OK	
	962	-3				22				OK	
	963	OP93665-MS				23				NOT RUN	cut from sequence
	964	-MSD				24				NOT RUN	↓
	963	OP93683-MB1	93683	8081 TCL	S	23				OK	
	964	-BS1				24				OK	
	965	-BS13				25				OK	
	966	JC19505-1				26				OK	
	967	-2				27				OK	
	968	-3				28				OK	
	969	JC19509-1				29				OK	
	970	-2				30				OK	
	971	JC19559-1	93657	8081 TCLP	W	31				OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G 1782

Print Analyst Name: Dhara Saporia

Date: 5/6/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16154-DS	Pest ISTD	50 ppm
-79	PCM	10-250 ppb
-87	DB	20 ppb
-100	Pest mix	25
-100	Pest mix	50
1605-63	Methane (Fisher)	–

Columns: 2DCLPP | 2DCLPM

Method 8081

Initial Cal. Method LPS1 1778

Injection Volume: 1.0 µL

Date Archived:

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: JR Date: 5/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	h267972	blank				1				ok	
	973	CC1778-50				2				ok	
	974	DB				3				ok	
	975	OP93694-MB1	93694	8081 TCL	W	5				ok	
	976	-BS1				6				ok	
	977	-MS				7				ok	
	978	-MSD				8				ok	
	979	JC19759-1				9				ok	
	980	-2				10				ok	
	981	-3				11				ok	
	982	-4				12				ok	
	983	-5				13				ok	
	984	-6				14				ok	
	985	JC19569-1	93657	8081 TCLP	W	15				ok	
	986	-2				16				ok	
	987	JC19558-7A				17				ok	
	988	JC19573-6A				18				ok	
	989	-13A				19				ok	
	990	OP93657-2BR				20				ok	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: anc-1782

Print Analyst Name: Dhara Sudarsia

Date: 5/6/16

Analyst Signature: [signature]

Columns: 2DCLPD1 2DCLPD2

Method 8081

Initial Cal. Method hpst 1778

Injection Volume: 1.0uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1616-1m-135	Pest IRTD	5 ppm
-79	RGM	10-250 ppb
-87	TB	20 ppb
-1wm	Pest mix	25
-1wm	Pest mix	50
160863	Hexane (Rinse)	-

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: JR

Date: 5/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	h267991	OP93657-2029	93657	8081 TCLP	W	21				OK	
	992	-2515				22				OK	+ ms
	993	-MSD				23				OK	
	994	CC1778-25				2				OK	Endosulfan I ↑ 1st DDE & Methoxychlor ↓ 1st
	995	IB				3				OK	
	996	OP93665-MS	93665	8081 TCL	W	24				OK	
	997	-MSD				25				OK	
	998	OP93683-MS	93683	8081 TCL	S	26				OK	
	999	-MSD				27				OK	
	h268000	JC19462-NO				28				OK	
	001	-45				29				OK	
	002	-50				30				OK	
	003	-55				31				OK	
	004	JC19423-1				32				OK	
	005	JC19424-1				33				OK	
	006	JC19445-1				34				OK	
	007	JC19473-3				35				OK	
	008	JC19477-1		TCL/CHL		36				OK	

BP 05/07/16

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G1783

Print Analyst Name: Brittany Percy

Analyst Signature: BP.

Date: 05/07/2016

Columns: ZBCLPI / ZBCLPII

Method 8081/608

Initial Cal. Method 4PST1778

Injection Volume: 1µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
8M16874-135	Pest ISTD	5ppm
-79	Dem	10-250ppb
-148B	Pest Mix	50 ppb
-148A	1	20
-87	I.B.	DW
160863	Hexane (Fisher)	—

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: JR Date: 5/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4968009	ddt			W	1				OK	
	010	CC 1778-50				4				OK	DDT ↑ 2nd. Methoxychlor ↑ 1st
	011	I.B.				3				OK	
	012	OP93657-MB2	93699-1 93657-D	8081 TCLP	W	5				OK	
	013	-BS2				6				OK	
	014	JC19575-13A			W	7				OK	
	015	-14A				8				OK	
	016	OP93699-LB32	93699-1			9				OK	
	017	-LS16				10				OK	+MS Also
	018	-MSD				11				OK	
	019	JC19492-1A				12				OK	
	020	-2A				13				OK	
	021	-3A				14				OK	
	022	-4A				15				OK	
	023	-5A				16				OK	
	024	-6A				17				OK	
	025	-7A				18				OK	
	026	-8A				19				OK	
	027	-9A				20				OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G1783

Print Analyst Name: Brittany Pietal

Analyst Signature: BP

Date: 05/07/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV160874-135	Pest ISTD	5ppm
-79	Pem	10-250ppb
-148A	Pest Mix	25
-148B	1	50
-87	I.B.	20
160863		
160883 BP 5/9/16	Hexane (Fisher)	—

Columns: ZBCLPI / ZBCLPII

Method 8081/608

Initial Cal. Method 4PST1778

Injection Volume: 1µL

Date Archived:

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: JP **Date:** 5/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4g 68028	JC19492-10A	93699-1	8081 TCLP	W	21				OK	
	029	-11A				22				OK	
	030	-12A				23				OK	
	031	CC1778-25				2				OK	Endosulfan II ↓ 1st
	032	I.B.				3				OK	
	033	JC19492-13A				24				OK	
	034	-14A				25				OK	
	035	-15A				26				OK	
	036	-16A				27				OK	
	037	-17A				28				OK	
	038	-18A				29				OK	
											BP 05/07/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

9.7.6

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LOGBOOK ID: 6-1686

Pest/PCB Extraction Log - Aqueous

Date Started: 5/2/16 Time Started: 1145
Date Finished: 5/2/16 Time Finished: 1145

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # GC 93549 RACK# GE-60

Extracted by: NG YB, MP
Concentrated by: MP
Vialed by: EIC
Relinquished by:
Accepted by:
Supervisor Review: 5/2/16

Special Client Spike Instructions					
QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

Sample #	Analysis Type	Sample Bottle #	pH	Sample Description	Sample Volume (mL)	Final Extract Color	Final Extract Vol(mL)	Extract Cleanup GPC	Copper	H2SO4	Florisil	Comments
MB1	Pest			DI H2O	300	CLEAR	2		✓			
BS1	LVI			DI H2O	300	CLEAR	2		✓			
JC19423-2 MS		12		Yellow	300	CLEAR	2		✓			
MSD		9		Yellow	300	CLEAR	2		✓			
BS												
MS												
MSD												
1 JC19423-2	Pest	11		Yellow	300	CLEAR	2		✓			
2 ~~3~~	LVI											
3 ~~4~~												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

1d TAT CLS 5/2/16

Comments: Line 2,3 - Written incorrectly
* DCM Amount is 15mx3

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	B3	65	—	—	OK
Buchi Chiller	B3	65	—	—	OK
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)					

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	16171284	400	0.2

WITNESS SIGN: YB SPIKE SIGN: NG

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	16171277C	250	0.2
PCB			

WITNESS SIGN: YB SPIKE SIGN: NG

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162417	Fisher	~~[illegible]~~ YB
HEXANE	160863	Fisher	50x1

REAGENT	LOT #	BRAND
Sodium Sulfate	158459	Fisher
Glass Wool	02905-2	Lab
Filter Paper		
Copper	16171260	Aldrich
Florisil		
1:1 Sulfuric Acid		
Chlorine Strips		

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.
Form: OP021A-06
Rev Date: 1/13/16

LOGBOOK ID: 6-1721

Pest / PCB Extraction Log - Soils

Date Started: 5/6/16 Time Started: 7:30am
Date Finished: 5/6/16 Time Finished: 10:30am

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 √ Sonication SW3550C ____
Waste Dilution SW3580A ____ Soxhlet SW3540 ____

BATCH # GC 93683	RACK# PEST-23
Weighed/Extracted by:	SG
Concentrated by:	NK
Vialed by:	NK
Relinquished by:	
Accepted by:	
Supervisor Review:	5/6/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked
BS13	1ml	CHL	16171297	500ppb	1mL

WITNESS SIGN: MA SPIKE SIGN: NK
Manager/Supervisor/Team Lead Approval: NK

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Microwave ID / Sonicator ID	Final Extract Color	Final Extract Vol (mL)	Extract Cleanup H2SO4	Extract Cleanup Florisil	Extract Cleanup Cu	Extract Cleanup GPC	Comment
MB1	Pest		Sand	15.0		/	4	clear	10		/	/		
BS1			Sand	15.0		/	4	clear	10		/	/		
JC19505-4 MS		1	sand/clay	16.4		/	4	Clear	10		/	/		
MSD		1	Sand/clay	16.5		/	4	Clear	10		/	/		
BS	BCHL		Sand	15.0		/	4	clear	10		/	/		
MS														
MSD														
1 JC19505-4	Pest	1	sand/clay	15.6		/	4	Clear	10		/	/		
2 -2		1	sand	16.1		/	4	Clear	10		/	/		
3 -3		1	sand	16.8		/	4	Clear	10		/	/		
4 JC19509-1		1	Soil	15.7		/	4	L.Yellow	10		/	/		
5 -2		1	Soil	15.8		/	4	Yellow	10		/	/		
6 JC19462-40		1	Soil	16.0		/	4	Yellow	10		/	/		
7 -45		1	Soil	15.7		/	4	Yellow	10		/	/		
8 -50		1	Soil	16.3		/	4	Yellow	10		/	/		
9 -55		1	Soil	15.4		/	4	L.Yellow	10		/	/		
10 JC19423-1		1	Sand/clay	16.6		/	4	Clear	10		/	/		
11 JC19434-1		1	Soil	17.0		/	4	L.Yellow	10		/	/		
12 JC19445-1		1	Soil	16.0		/	4	L.Yellow	10		/	/		
13 JC19473-3		1	Soil	15.3		/	4	Clear	10		/	/		
14 JC19477-1		1	Soil	15.0		/	4	Yellow	10		/	/		
15														
16														
17														
18														
19														
20														

Comments:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason: toxaphene BHC

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	3, 4	65, 65	N/A	N/A	OK, OK
Buchi Chiller	B3, B4	11, 11	N/A	N/A	OK, OK
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)	2	35	+0.1	35	10psi
Balance	B47	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	16171284	400	1

WITNESS SIGN: MA SPIKE SIGN: NK

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	16171227D	250ppb	1
PCB			

WITNESS SIGN: MA SPIKE SIGN: NK

SOLVENT	LOT #	BRAND	AMT (mL)
2:1 HEXANE/ ACETONE	157194 / 158857	Fisher / Fisher	30
1:1 METH CHLOR/ ACETONE			
HEXANE			

REAGENT	LOT #	BRAND
HYDROMATRIX	62441128	Agilent ~~Aldrich~~ 5/6/16
SODIUM SULFATE	140420	Fisher
FILTER PAPER	9627994	Fisher
FLORISIL	S213007	Phenomenex
1:1 SULFURIC ACID		
COPPER	16171260	Aldrich

MATRIX	LOT #	BRAND
SAND	GGA160113 11A	Fisher

SGS ACCUTEST INC.
Form: OP018A-05
Rev Date: 11/20/15

[redacted]

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JC19423
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: JC19423-1 **Analyzed:** 04-MAY-16 by PV **Method:** SM2540 G-97
ClientID: MW-20S (7-8)

Wet Weight (Total)	35.74	g
Tare Weight	27.99	g
Dry Weight (Total)	33.75	g
Solids, Percent	74.3	%

Misc. Forms

Custody Documents and Other Forms

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

CHAIN OF CUSTODY

SGS ACCUTEST

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

FED-EX Tracking #	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest Job JC19423

Client / Reporting Information

Company Name: SGS Accutest
Street Address: 2235 Route 130
City: Dayton State: NJ Zip: 08810
Project Contact: sarad E-mail: sarad@accutest.com
Phone #: 732-329-0200 Fax #:
Sampler(s) Name(s): TT Phone:

Project Information

Project Name: BMSMC, Building 5 Area, PR
Street:
City: State:
Project #:
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	D8015LMA.	LAB USE ONLY
2AS	RA18-GWD (MS)		4/28/16	1:00:00 PM	TT	AQ	3	3								X	
2AD	RA18-GWD (MSD)		4/28/16	1:00:00 PM	TT	AQ	3	3								X	
2A	RA18-GWD		4/28/16	1:00:00 PM	TT	AQ	3	3								X	

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 5/9/2016

Emergency & Rush T/A data available VIA Lablink

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
- [X] Other FULT1

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

Comments / Special Instructions

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 [signature]	5/2/16 1700	1 FX	2 FX	5-3-16	2 J. Copple (AVSE) 13:30
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal # 768 ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp. 3.6
5		5			

11.1 11

JC19423: Chain of Custody
Page 1 of 6
SGS Accutest Southeast

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: JC 19423 CLIENT: ALNJ PROJECT: BMSMC

DATE/TIME RECEIVED: 5-3-16 1330 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 5633 9349 1319

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.6 (USED FOR LIMS)

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 5-3-16 REVIEWER SIGNATURE/DATE 5/3/16

NF 11/15 RECEIPTLOG040416.xls

11.1 11

ORIGIN ID:ZRPA (732) 329-0200
SAMPLE MGT.
SGS ACCUTEST
2235 US HIGHWAY 130

DAYTON, NJ 08810
UNITED STATES US

SHIP DATE: 02MAY16
ACTWGT: 10.3 LB
CAD: 0743430/CAFE2912

BILL SENDER

TO SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND ROAD
SUITE C-15
ORLANDO FL 32811
(407) 426-6700
REF: JC19423

FedEx Express

TRK# 0201 5633 9349 1319

TUE - 03 MAY 10:30A
PRIORITY OVERNIGHT

EA TIXA

32811
FL-US MCO

UNV12303
MADE IN USA

11.1

11

JC19423: Chain of Custody
Page 3 of 6

CHAIN OF CUSTODY

SGS ACCUTEST

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

FED-EX Tracking #	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest Job JC19423

Client / Reporting Information

Company Name: SGS Accutest
Street Address: 2235 Route 130
City / State / Zip: Dayton NJ 08810
Project Contact / E-mail: DonM / DonM@accutest.com
Phone # / Fax #: 732-329-0200
Sampler(s) Name(s) / Phone: NR

Project Information

Project Name: BMSMC, Building 5 Area, PR
Street
City / State
Project #
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	D8015LMA	LAB USE ONLY
1	MW-20S		4/28/16	12:37:00 PM	NR	SO	1					1				X	

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 5/16/2016

Emergency & Rush T/A data available VIA Lablink

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
- [X] Other FULT1

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

Comments / Special Instructions

Foreign Soil
60 ml bottle available for subcontract

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 [signature]	5/3/16 17:00	1 Fed Ex	2 FX	5-4-16	2 J. Cornel (Alpha) 09:45
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not Intact	Preserved where applicable [ ] On Ice [ ] Cooler Temp. 3.6

11.1 11

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: JC 19423 CLIENT: ALNJ PROJECT: BMSMC

DATE/TIME RECEIVED: 5-4-16 09:45 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 5633 9349 1320

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.6 (USED FOR LIMS)

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 5-4-16 REVIEWER SIGNATURE/DATE 5/4/16

NF 11/15 RECEIPTLOG040416.xls

11.1 11

ORIGIN ID:ZRPA (732) 329-0200
SAMPLE MGT.
SGS ACCUTEST
2235 US HIGHWAY 130

DAYTON, NJ 08810
UNITED STATES US

SHIP DATE: 03MAY16
ACTWGT: 14.6 LB
CAD: 0743430/CAFE2912

BILL SENDER

TO SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND ROAD
SUITE C-15
ORLANDO FL 32811
(407) 425-6700
REF: JC19423

FedEx Express

WED - 04 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 5633 9349 1320

EA TIXA

32811
FL-US MCO

Part # 156149Y-434 1UTF2 02/17

11.1

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JC19423: Chain of Custody
Page 6 of 6

Internal Sample Tracking Chronicle

Accutest New Jersey

Job No: JC19423

AMANYWP: BMSMC, Building 5 Area, PR
Project No: AMANYWP22704

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC19423-1	Collected: 28-APR-16 12:37 By: NR		Received: 02-MAY-16 By: JC			
MW-20S (7-8)						
JC19423-1	SW846 8015C MOD	06-MAY-16 09:02	SH			D8015LMA
JC19423-2A	Collected: 28-APR-16 13:00 By: TT		Received: 02-MAY-16 By: JC			
RA18-GWD						
JC19423-2A	SW846 8015C	05-MAY-16 11:08	SH			D8015LMA

GC Volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2774-MB	XY064112.D	1	05/05/16	SH	n/a	n/a	GXY2774

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC19423-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	5.0	1.0	mg/l	
78-83-1	Isobutyl Alcohol	ND	5.0	1.0	mg/l	
67-63-0	Isopropyl Alcohol	ND	5.0	1.0	mg/l	
71-23-8	n-Propyl Alcohol	ND	5.0	1.0	mg/l	
71-36-3	n-Butyl Alcohol	ND	5.0	1.0	mg/l	
67-56-1	Methanol	ND	5.0	1.0	mg/l	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	96%	73-123%

Method Blank Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2775-MB	XY064121.D	1	05/06/16	SH	n/a	n/a	GXY2775

The QC reported here applies to the following samples: **Method:** SW846 8015C MOD

JC19423-1

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	10	2.0	mg/kg	
78-83-1	Isobutyl Alcohol	ND	10	2.0	mg/kg	
67-63-0	Isopropyl Alcohol	ND	10	2.0	mg/kg	
71-23-8	n-Propyl Alcohol	ND	10	2.0	mg/kg	
71-36-3	n-Butyl Alcohol	ND	10	2.0	mg/kg	
67-56-1	Methanol	ND	10	2.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	114%	69-121%

Blank Spike Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2774-BS	XY064111.D	1	05/05/16	SH	n/a	n/a	GXY2774

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC19423-2A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
64-17-5	Ethanol	100	105	105	73-120
78-83-1	Isobutyl Alcohol	100	90.7	91	67-116
67-63-0	Isopropyl Alcohol	100	85.3	85	69-118
71-23-8	n-Propyl Alcohol	100	95.1	95	71-119
71-36-3	n-Butyl Alcohol	100	95.3	95	69-119
67-56-1	Methanol	100	92.8	93	70-118

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	92%	73-123%

12.2.1

12

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2775-BS	XY064120.D	1	05/06/16	SH	n/a	n/a	GXY2775

The QC reported here applies to the following samples: **Method:** SW846 8015C MOD

JC19423-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
64-17-5	Ethanol	200	232	116	80-117
78-83-1	Isobutyl Alcohol	200	219	110	72-117
67-63-0	Isopropyl Alcohol	200	228	114	75-116
71-23-8	n-Propyl Alcohol	200	230	115	78-116
71-36-3	n-Butyl Alcohol	200	231	116*	74-115
67-56-1	Methanol	200	226	113	77-116

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	111%	69-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC19423-2AMS	XY064116.D	1	05/05/16	SH	n/a	n/a	GXY2774
JC19423-2AMSD	XY064117.D	1	05/05/16	SH	n/a	n/a	GXY2774
JC19423-2A	XY064113.D	1	05/05/16	SH	n/a	n/a	GXY2774

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC19423-2A

CAS No.	Compound	JC19423-2A mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		100	108	108	100	118	118	9	73-120/16
78-83-1	Isobutyl Alcohol	ND		100	104	104	100	108	108	4	67-116/17
67-63-0	Isopropyl Alcohol	ND		100	109	109	100	108	108	1	69-118/17
71-23-8	n-Propyl Alcohol	ND		100	109	109	100	113	113	4	71-119/17
71-36-3	n-Butyl Alcohol	ND		100	110	110	100	114	114	4	69-119/17
67-56-1	Methanol	ND		100	107	107	100	111	111	4	70-118/17

CAS No.	Surrogate Recoveries	MS	MSD	JC19423-2A	Limits
111-27-3	Hexanol	107%	110%	106%	73-123%

12.3.1

12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC19423-1MS	XY064124.D	1	05/06/16	SH	n/a	n/a	GXY2775
JC19423-1MSD	XY064125.D	1	05/06/16	SH	n/a	n/a	GXY2775
JC19423-1 [a]	XY064122.D	1	05/06/16	SH	n/a	n/a	GXY2775

The QC reported here applies to the following samples: **Method:** SW846 8015C MOD

JC19423-1

CAS No.	Compound	JC19423-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		282	298	106	282	331	118*	10	80-117/13
78-83-1	Isobutyl Alcohol	ND		282	290	103	282	324	115	11	72-117/14
67-63-0	Isopropyl Alcohol	ND		282	303	108	282	340	121*	12	75-116/15
71-23-8	n-Propyl Alcohol	ND		282	301	107	282	337	120*	11	78-116/13
71-36-3	n-Butyl Alcohol	ND		282	303	108	282	339	120*	11	74-115/13
67-56-1	Methanol	ND		282	294	104	282	327	116	11	77-116/13

CAS No.	Surrogate Recoveries	MS	MSD	JC19423-1	Limits
111-27-3	Hexanol	102%	114%	112%	69-121%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

12.3.2

12

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Method: SW846 8015C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JC19423-2A	XY064113.D	106
GXY2774-BS	XY064111.D	92
GXY2774-MB	XY064112.D	96
JC19423-2AMS	XY064116.D	107
JC19423-2AMSD	XY064117.D	110

Surrogate Compounds	Recovery Limits
S1 = Hexanol	73-123%

(a) Recovery from GC signal #1

Volatile Surrogate Recovery Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Method: SW846 8015C MOD **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JC19423-1	XY064122.D	112
GXY2775-BS	XY064120.D	111
GXY2775-MB	XY064121.D	114
JC19423-1MS	XY064124.D	102
JC19423-1MSD	XY064125.D	114

Surrogate Compounds	Recovery Limits
S1 = Hexanol	69-121%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Check Std:	GXY2774-CC2772	**Injection Date:**	05/05/16
Lab File ID:	XY064110.D	**Injection Time:**	10:04
Instrument ID:	GCXY	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	13.73

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GXY2774-BS	XY064111.D	05/05/16	10:26	13.73
GXY2774-MB	XY064112.D	05/05/16	10:47	13.73
JC19423-2A	XY064113.D	05/05/16	11:08	13.73
ZZZZZZ	XY064114.D	05/05/16	11:30	13.73
ZZZZZZ	XY064115.D	05/05/16	11:51	13.73
JC19423-2AMS	XY064116.D	05/05/16	12:13	13.73
JC19423-2AMSD	XY064117.D	05/05/16	12:34	13.73
GXY2774-ECC2772	XY064118.D	05/05/16	12:56	13.73

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Check Std:	GXY2775-CC2772	**Injection Date:**	05/06/16
Lab File ID:	XY064119.D	**Injection Time:**	07:57
Instrument ID:	GCXY	**Method:**	SW846 8015C MOD

	S1 [a] **RT**
Check Std	13.73

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GXY2775-BS	XY064120.D	05/06/16	08:19	13.73
GXY2775-MB	XY064121.D	05/06/16	08:40	13.74
JC19423-1	XY064122.D	05/06/16	09:02	13.74
ZZZZZZ	XY064123.D	05/06/16	09:24	13.74
JC19423-1MS	XY064124.D	05/06/16	09:45	13.74
JC19423-1MSD	XY064125.D	05/06/16	10:07	13.74
GXY2775-ECC2772	XY064127.D	05/06/16	10:56	13.73

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #1

12.5.2

12

Initial Calibration Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Sample: GXY2772-ICC2772
Lab FileID: XY064083.D

Response Factor Report VOA5

Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Initial Calibration

Calibration Files
1 =XY064080.D 2 =XY064081.D 3 =XY064082.D 4 =XY064083.D
5 =XY064084.D 6 =XY064085.D 7 =XY064086.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) Methanol	2.993	2.776	2.570	2.800	2.625	2.668	2.600	2.719 E3	5.47
2) Isopropyl alcohol	3.875	3.653	3.396	3.732	3.600	3.854	3.786	3.699 E3	4.52
3) Ethanol	4.250	4.356	4.414	4.738	4.328	4.285	4.111	4.355 E3	4.46
4) n-Propyl alcohol	4.680	4.908	4.779	5.178	4.877	4.979	4.856	4.894 E3	3.21
5) Isobutyl alcohol	5.533	5.722	5.377	5.923	5.587	5.802	5.680	5.661 E3	3.18
6) n-Butyl alcohol	4.887	5.051	5.145	5.604	5.295	5.476	5.343	5.257 E3	4.72
7) 2-Ethoxyethanol	2.716	2.718	2.879	3.121	2.999	3.028	3.012	2.924 E3	5.41
8)S Hexanol	5.039	5.012	5.938	5.281	5.163	5.411	5.287	5.304 E3	5.91

(#) = Out of Range

D8015.M Tue May 03 09:21:32 2016

Initial Calibration Verification

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR
Sample: GXY2772-ICV2772
Lab FileID: XY064088.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\050216\XY064088.D          Vial: 10
Acq On    :  2 May 2016   5:30 pm                   Operator: StevenH
Sample    : icv2772-4                               Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
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 : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Methanol	100.000	112.212	-12.2	109	0.00	2.11- 2.71
2	Isopropyl alcohol	100.000	114.624	-14.6	114	0.00	2.44- 3.04
3	Ethanol	100.000	113.077	-13.1	104	0.00	2.62- 3.22
4	n-Propyl alcohol	100.000	114.047	-14.0	108	0.00	4.80- 5.40
5	Isobutyl alcohol	100.000	108.938	-8.9	104	0.00	6.56- 7.16
6	n-Butyl alcohol	100.000	114.044	-14.0	107	0.03	8.44- 9.04
7	2-Ethoxyethanol	100.000	116.228	-16.2	109	0.02	10.91-11.51
8 S	Hexanol	100.000	109.019	-9.0	110	0.00	13.40-14.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY064083.D D8015.M Tue May 03 09:21:06 2016

12.6.2

12

Continuing Calibration Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR
Sample: GXY2774-CC2772
Lab FileID: XY064110.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\050516\XY064110.D          Vial: 1
Acq On    :  5 May 2016  10:04 am                   Operator: StevenH
Sample    : cc2772-4                                Inst    : VOA5
Misc      : gc18792,gxy2774,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
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 : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Methanol	100.000	106.499	-6.5	103	0.03	2.11- 2.71
2	Isopropyl alcohol	100.000	107.951	-8.0	107	0.04	2.44- 3.04
3	Ethanol	100.000	105.717	-5.7	97	0.04	2.62- 3.22
4	n-Propyl alcohol	100.000	107.995	-8.0	102	0.06	4.80- 5.40
5	Isobutyl alcohol	100.000	107.551	-7.6	103	0.07	6.56- 7.16
6	n-Butyl alcohol	100.000	109.759	-9.8	103	0.08	8.44- 9.04
7	2-Ethoxyethanol	100.000	108.722	-8.7	102	0.06	10.91-11.51
8 S	Hexanol	100.000	100.580	-0.6	101	0.03	13.40-14.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY064083.D D8015.M Fri May 06 08:45:29 2016

12.6.3

12

Continuing Calibration Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR
Sample: GXY2774-ECC2772
Lab FileID: XY064118.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\050516\XY064118.D          Vial: 8
Acq On    :  5 May 2016  12:56 pm                   Operator: StevenH
Sample    : ecc2772-5                               Inst    : VOA5
Misc      : gc18792,gxy2774,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
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 : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Methanol	250.000	245.478	1.8	102	0.03	2.11- 2.71
2	Isopropyl alcohol	250.000	238.198	4.7	98	0.05	2.44- 3.04
3	Ethanol	250.000	259.428	-3.8	104	0.04	2.62- 3.22
4	n-Propyl alcohol	250.000	251.784	-0.7	101	0.07	4.80- 5.40
5	Isobutyl alcohol	250.000	248.472	0.6	101	0.10	6.56- 7.16
6	n-Butyl alcohol	250.000	254.267	-1.7	101	0.08	8.44- 9.04
7	2-Ethoxyethanol	250.000	252.814	-1.1	99	0.06	10.91-11.51
8 S	Hexanol	250.000	242.846	2.9	100	0.03	13.40-14.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY064084.D D8015.M Fri May 06 08:45:46 2016

12.6.4

12

Continuing Calibration Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR
Sample: GXY2775-CC2772
Lab FileID: XY064119.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\050616\XY064119.D          Vial: 1
Acq On    :  6 May 2016   7:57 am                   Operator: StevenH
Sample    : cc2772-4                                Inst    : VOA5
Misc      : gc18795,gxy2775,5.00,,,10,1             Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Mon May 09 08:21:29 2016
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 : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Methanol	100.000	110.968	-11.0	108	0.03	2.11- 2.71
2	Isopropyl alcohol	100.000	113.967	-14.0	113	0.04	2.44- 3.04
3	Ethanol	100.000	109.870	-9.9	101	0.04	2.62- 3.22
4	n-Propyl alcohol	100.000	112.852	-12.9	107	0.05	4.80- 5.40
5	Isobutyl alcohol	100.000	111.792	-11.8	107	0.07	6.56- 7.16
6	n-Butyl alcohol	100.000	113.891	-13.9	107	0.09	8.44- 9.04
7	2-Ethoxyethanol	100.000	109.669	-9.7	103	0.06	10.91-11.51
8 S	Hexanol	100.000	105.666	-5.7	106	0.03	13.40-14.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY064083.D D8015.M Mon May 09 08:58:51 2016

12.6.5

12

Continuing Calibration Summary

Job Number: JC19423
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR
Sample: GXY2775-ECC2772
Lab FileID: XY064127.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\050616\XY064127.D          Vial: 7
Acq On    :  6 May 2016  10:56 am                   Operator: StevenH
Sample    : ecc2772-5                               Inst    : VOA5
Misc      : gc18795,gxy2775,5.00,,,10,1             Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Mon May 09 08:21:29 2016
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 : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Methanol	250.000	223.106	10.8	92	0.04	2.11- 2.71
2	Isopropyl alcohol	250.000	223.920	10.4	92	0.05	2.44- 3.04
3	Ethanol	250.000	231.088	7.6	93	0.04	2.62- 3.22
4	n-Propyl alcohol	250.000	229.478	8.2	92	0.06	4.80- 5.40
5	Isobutyl alcohol	250.000	230.911	7.6	94	0.08	6.56- 7.16
6	n-Butyl alcohol	250.000	233.754	6.5	93	0.07	8.44- 9.04
7	2-Ethoxyethanol	250.000	229.329	8.3	89	0.05	10.91-11.51
8 S	Hexanol	250.000	222.522	11.0	91	0.04	13.40-14.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY064084.D D8015.M Mon May 09 08:58:23 2016

12.6.6

12

GC Volatiles

Raw Data

(SGS Accutest Southeast)

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050616\XY064122.D          Vial: 4
Acq On    :  6 May 2016   9:02 am                   Operator: StevenH
Sample    : jc19423-1                               Inst    : VOA5
Misc      : gc18795,gxy2775,4.78,,,10,1             Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  9  8:53 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Mon May 09 08:21:29 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

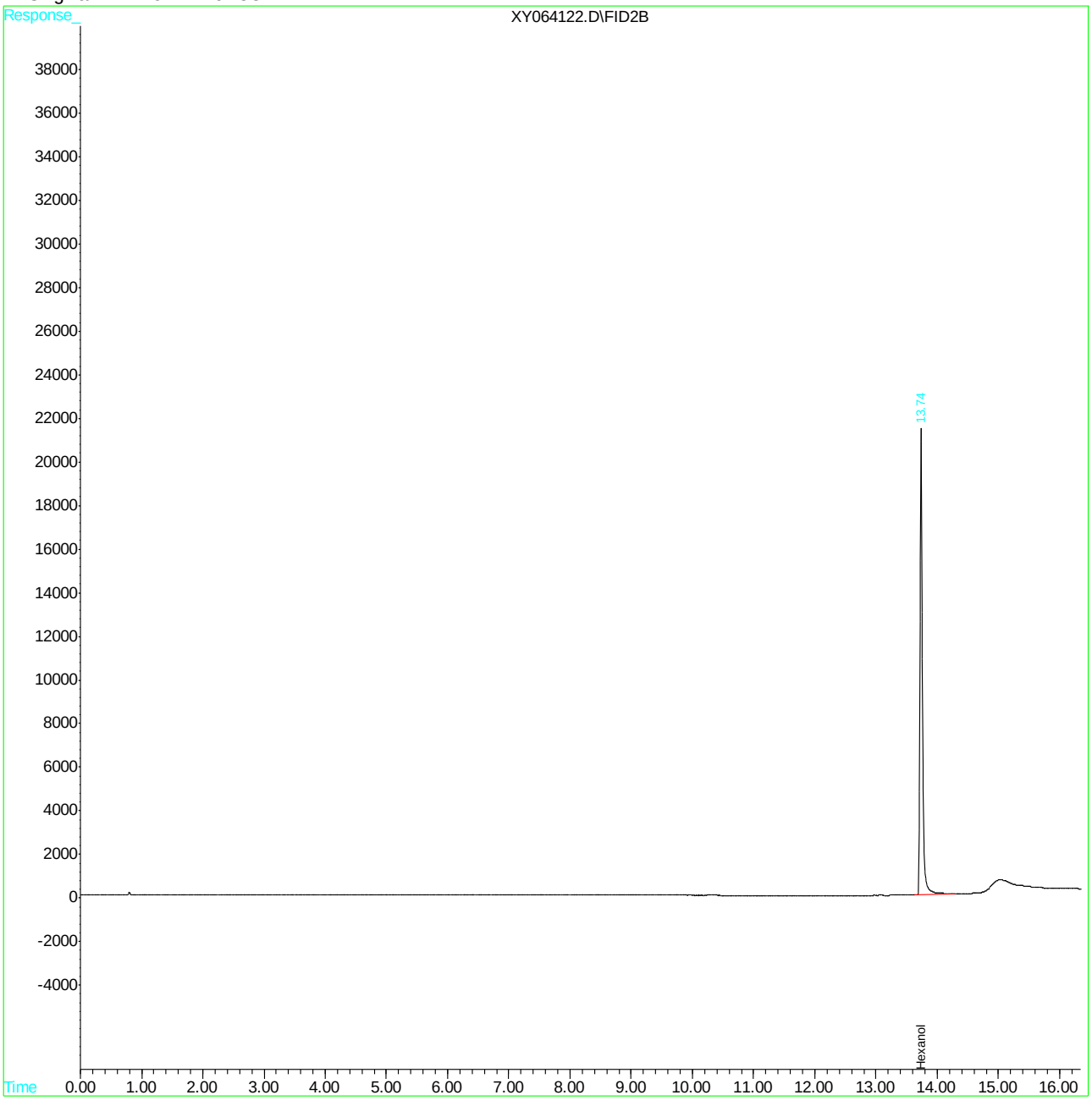
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
8) S Hexanol	13.74	593566	111.903	mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 111.90%				
Target Compounds				
1) Methanol	0.00	0	N.D.	mg/L
2) Isopropyl alcohol	0.00	0	N.D.	mg/L
3) Ethanol	0.00	0	N.D.	mg/L
4) n-Propyl alcohol	0.00	0	N.D.	mg/L
5) Isobutyl alcohol	0.00	0	N.D.	mg/L
6) n-Butyl alcohol	0.00	0	N.D.	mg/L
7) 2-Ethoxyethanol	0.00	0	N.D.	mg/L

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064122.D Vial: 4
Acq On : 6 May 2016 9:02 am Operator: StevenH
Sample : jc19423-1 Inst : VOA5
Misc : gc18795,gxy2775,4.78,,,10,1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 9 8:53 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 09 08:21:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050516\XY064113.D          Vial: 4
Acq On    :  5 May 2016  11:08 am                   Operator: StevenH
Sample    : jc19423-2a                              Inst    : VOA5
Misc      : gc18792,gxy2774,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  6  8:42 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

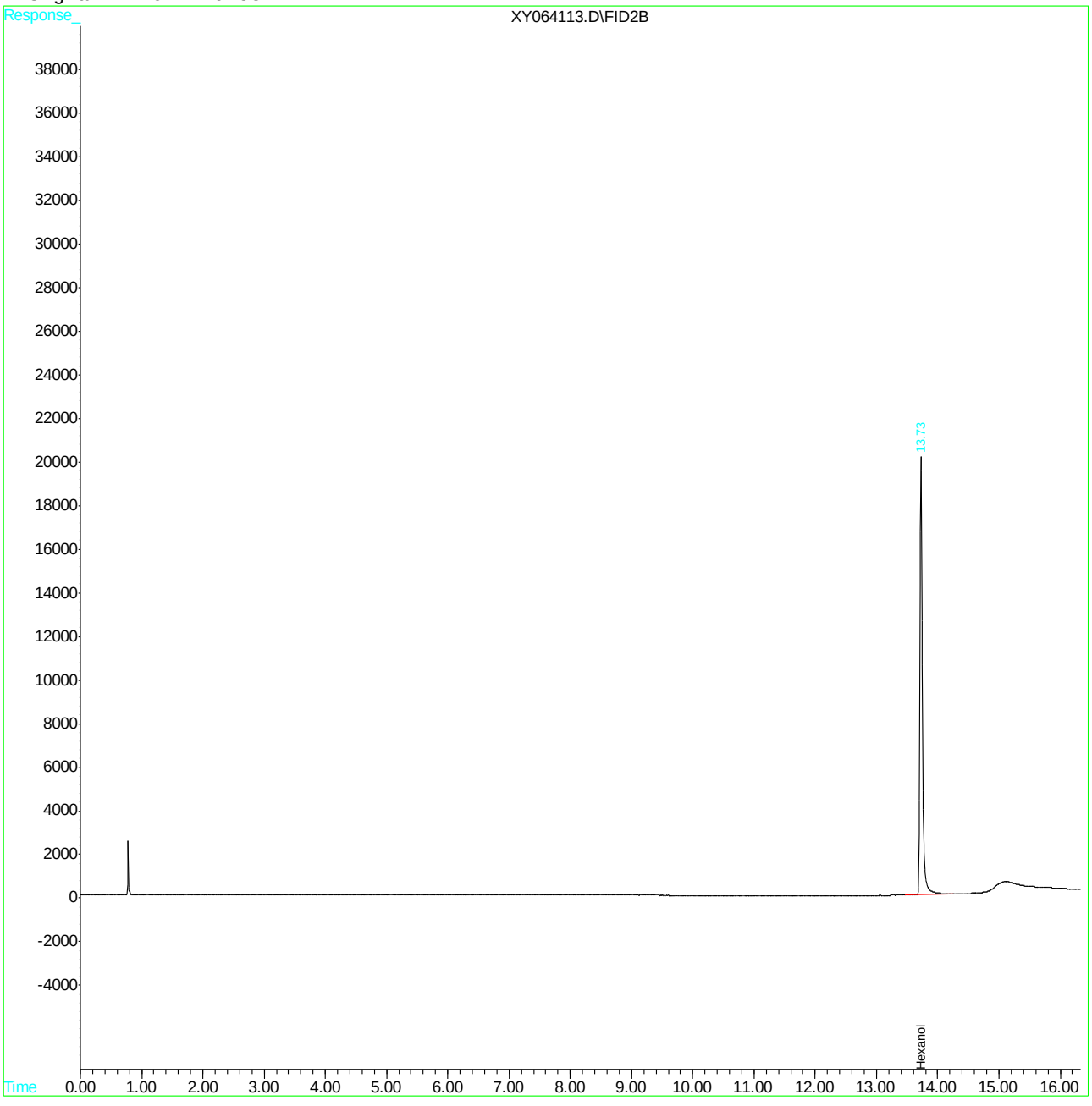
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
8) S Hexanol	13.73	562889	106.120	mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 106.12%				
Target Compounds				
1) Methanol	0.00	0	N.D.	mg/L
2) Isopropyl alcohol	0.00	0	N.D.	mg/L
3) Ethanol	0.00	0	N.D.	mg/L
4) n-Propyl alcohol	0.00	0	N.D.	mg/L
5) Isobutyl alcohol	0.00	0	N.D.	mg/L
6) n-Butyl alcohol	0.00	0	N.D.	mg/L
7) 2-Ethoxyethanol	0.00	0	N.D.	mg/L

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064113.D Vial: 4
Acq On : 5 May 2016 11:08 am Operator: StevenH
Sample : jc19423-2a Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050516\XY064112.D          Vial: 3
Acq On    :  5 May 2016  10:47 am                   Operator: StevenH
Sample    : mb                                      Inst    : VOA5
Misc      : gc18792,gxy2774,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  6  8:42 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
8) S Hexanol	13.73	508679	95.899	mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 95.90%				
Target Compounds				
1) Methanol	0.00	0	N.D.	mg/L
2) Isopropyl alcohol	0.00	0	N.D.	mg/L
3) Ethanol	0.00	0	N.D.	mg/L
4) n-Propyl alcohol	0.00	0	N.D.	mg/L
5) Isobutyl alcohol	0.00	0	N.D.	mg/L
6) n-Butyl alcohol	0.00	0	N.D.	mg/L
7) 2-Ethoxyethanol	0.00	0	N.D.	mg/L

13.2.1

13

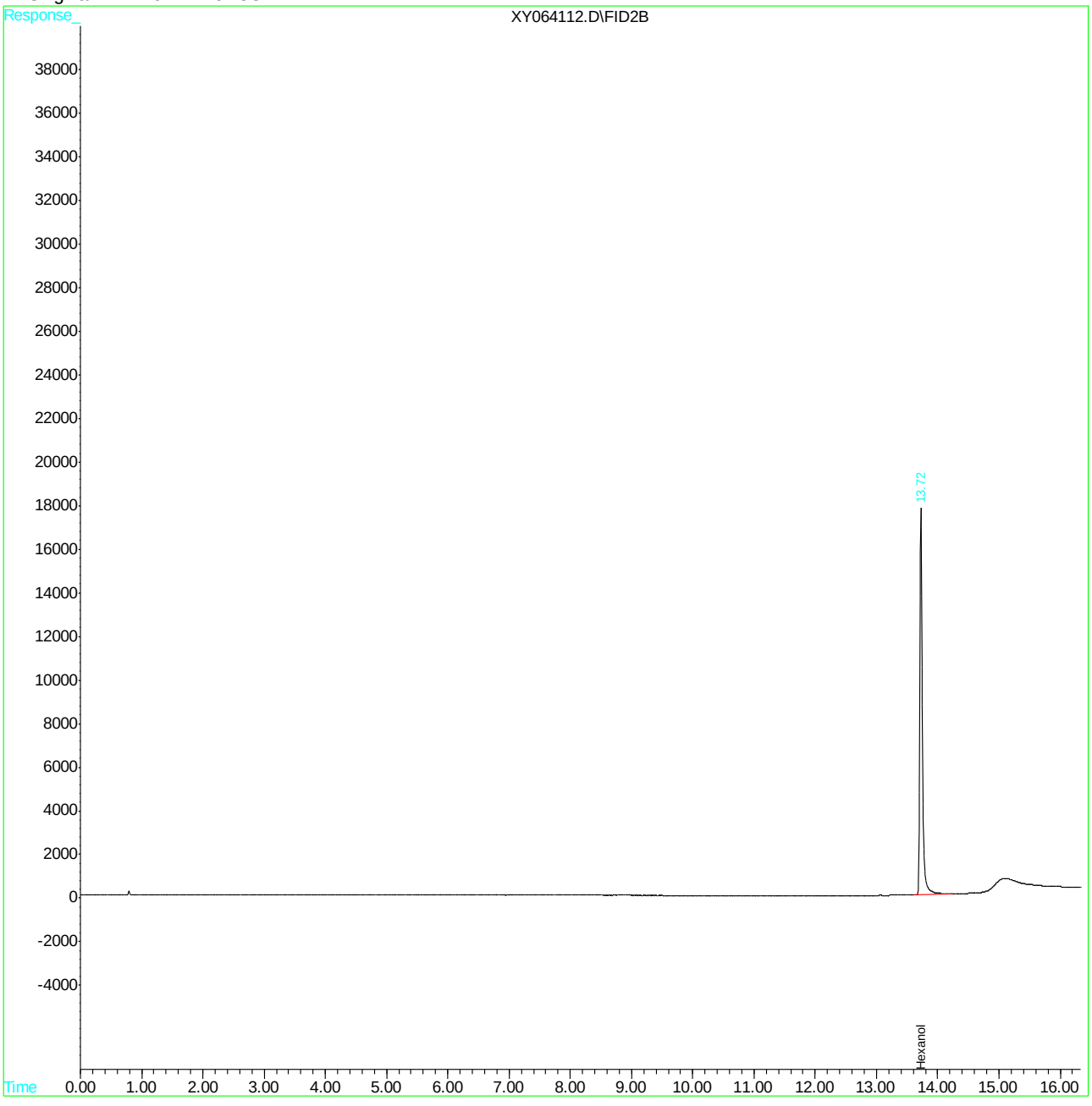
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064112.D Vial: 3
Acq On : 5 May 2016 10:47 am Operator: StevenH
Sample : mb Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



XY064112.D D8015.M Fri May 06 08:44:22 2016 Page 2

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050616\XY064121.D          Vial: 3
Acq On    :  6 May 2016   8:40 am                   Operator: StevenH
Sample    : mb                                      Inst    : VOA5
Misc      : gc18795,gxy2775,5.00,,,10,1             Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  9  8:53 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Mon May 09 08:21:29 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
8) S Hexanol	13.74	604054	113.880	mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 113.88%				
Target Compounds				
1) Methanol	0.00	0	N.D.	mg/L
2) Isopropyl alcohol	0.00	0	N.D.	mg/L
3) Ethanol	0.00	0	N.D.	mg/L
4) n-Propyl alcohol	0.00	0	N.D.	mg/L
5) Isobutyl alcohol	0.00	0	N.D.	mg/L
6) n-Butyl alcohol	0.00	0	N.D.	mg/L
7) 2-Ethoxyethanol	0.00	0	N.D.	mg/L

13.2.2

13

(f)=RT Delta > 1/2 Window (m)=manual int.

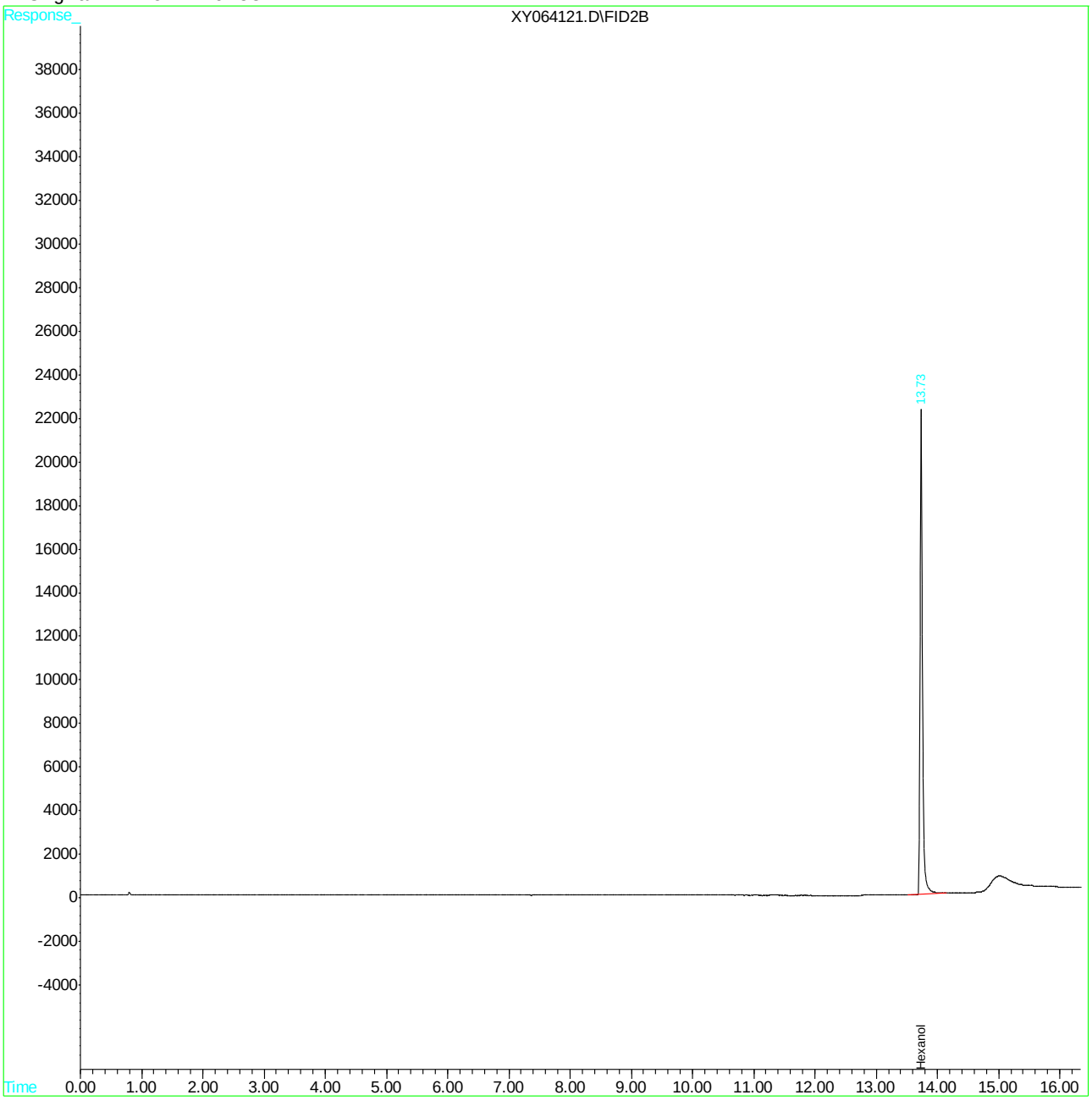
SGS ACCUTEST JC19423

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064121.D Vial: 3
Acq On : 6 May 2016 8:40 am Operator: StevenH
Sample : mb Inst : VOA5
Misc : gc18795,gxy2775,5.00,,,10,1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 9 8:53 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 09 08:21:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064111.D Vial: 2
Acq On : 5 May 2016 10:26 am Operator: StevenH
Sample : bs Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	486142	91.651 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 91.65%			
Target Compounds			
1) Methanol	2.46	252288	92.794 mg/L
2) Isopropyl alcohol	2.79	315648	85.324 mg/L
3) Ethanol	2.98	455386	104.578 mg/L
4) n-Propyl alcohol	5.19	465305	95.078 mg/L
5) Isobutyl alcohol	6.96	513397	90.696 mg/L
6) n-Butyl alcohol	8.84	500869	95.272 mg/L
7) 2-Ethoxyethanol	11.27	299684	102.475 mg/L

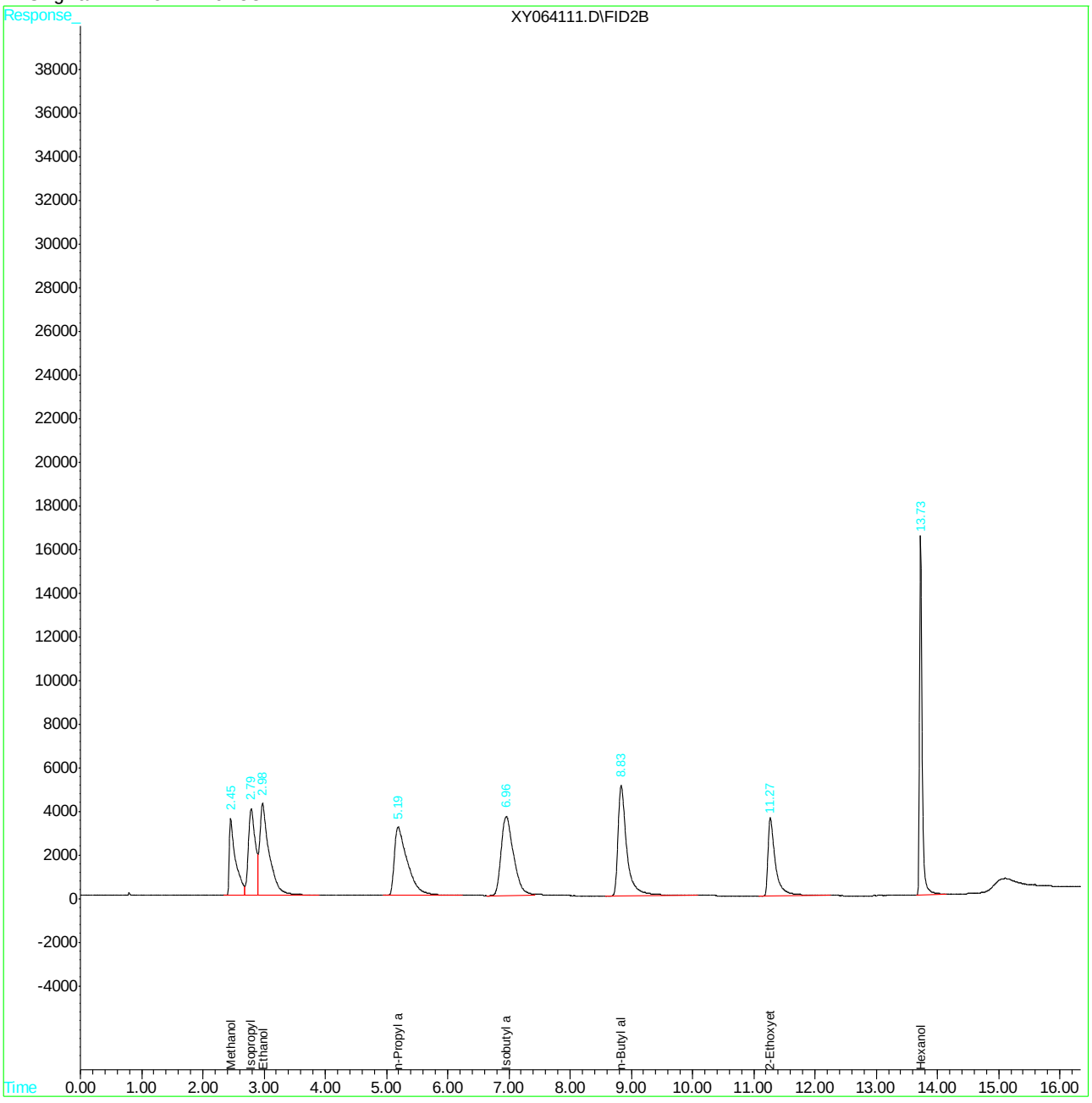
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064111.D Vial: 2
Acq On : 5 May 2016 10:26 am Operator: StevenH
Sample : bs Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050616\XY064120.D          Vial: 2
Acq On    :  6 May 2016   8:19 am                   Operator: StevenH
Sample    : bs                                      Inst    : VOA5
Misc      : gc18795,gxy2775,5.00,,,10,1             Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  9  8:53 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Mon May 09 08:21:29 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	586456	110.563 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 110.56%			
Target Compounds			
1) Methanol	2.45	307652	113.158 mg/L
2) Isopropyl alcohol	2.79	421387	113.907 mg/L
3) Ethanol	2.97	505467	116.079 mg/L
4) n-Propyl alcohol	5.18	562844	115.008 mg/L
5) Isobutyl alcohol	6.95	619584	109.455 mg/L
6) n-Butyl alcohol	8.87	605963	115.262 mg/L
7) 2-Ethoxyethanol	11.29	339095	115.951 mg/L

13.3.2

13

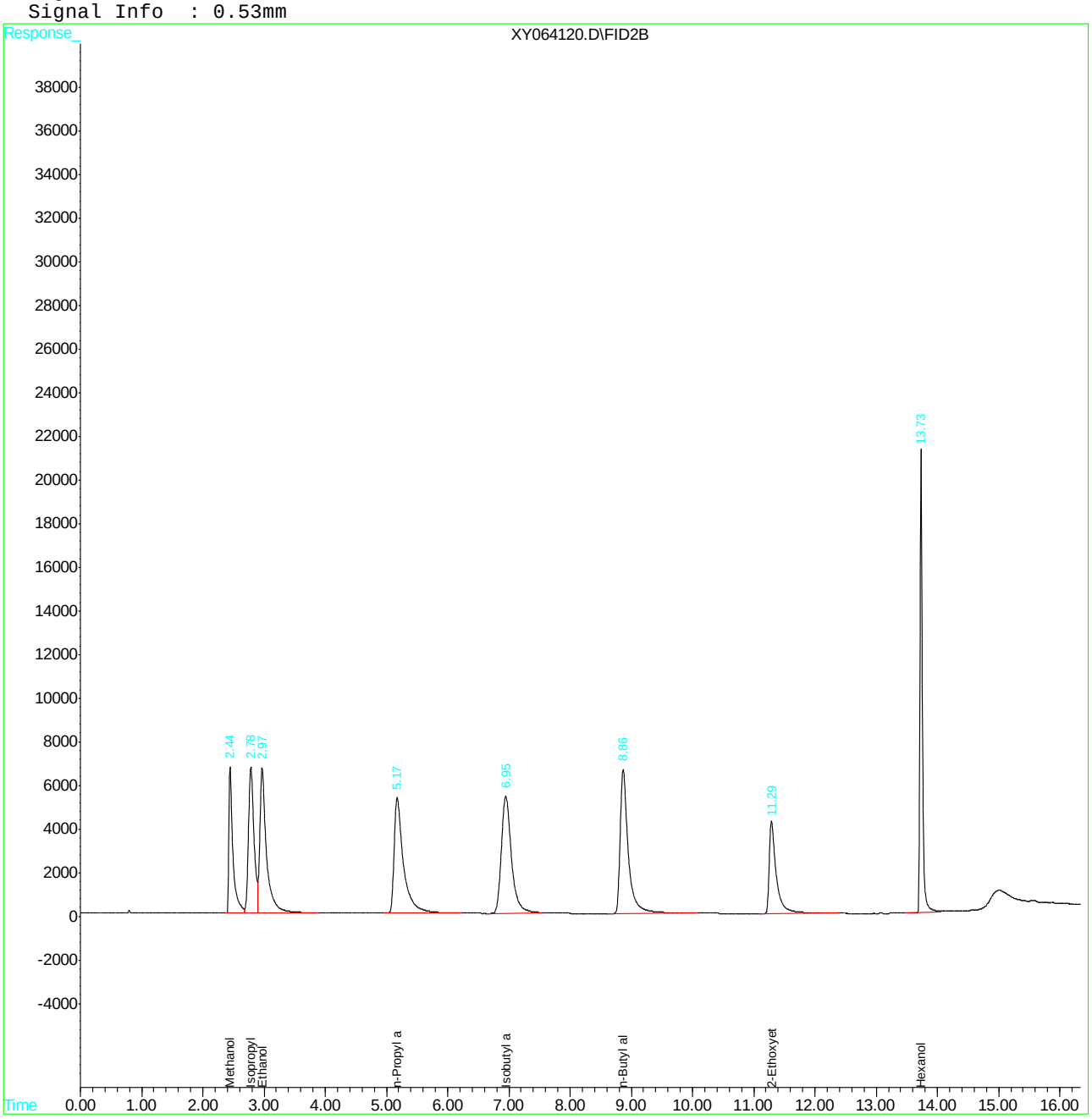
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064120.D Vial: 2
Acq On : 6 May 2016 8:19 am Operator: StevenH
Sample : bs Inst : VOA5
Misc : gc18795,gxy2775,5.00,,,10,1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 9 8:53 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 09 08:21:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



XY064120.D D8015.M Mon May 09 08:57:49 2016 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064116.D Vial: 7
Acq On : 5 May 2016 12:13 pm Operator: StevenH
Sample : jc19423-2ams Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	568315	107.142 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 107.14%			
Target Compounds			
1) Methanol	2.44	291009	107.036 mg/L
2) Isopropyl alcohol	2.78	404459	109.331 mg/L
3) Ethanol	2.96	472208	108.441 mg/L
4) n-Propyl alcohol	5.17	534709	109.259 mg/L
5) Isobutyl alcohol	6.94	590422	104.303 mg/L
6) n-Butyl alcohol	8.84	576506	109.659 mg/L
7) 2-Ethoxyethanol	11.28	317477	108.559 mg/L

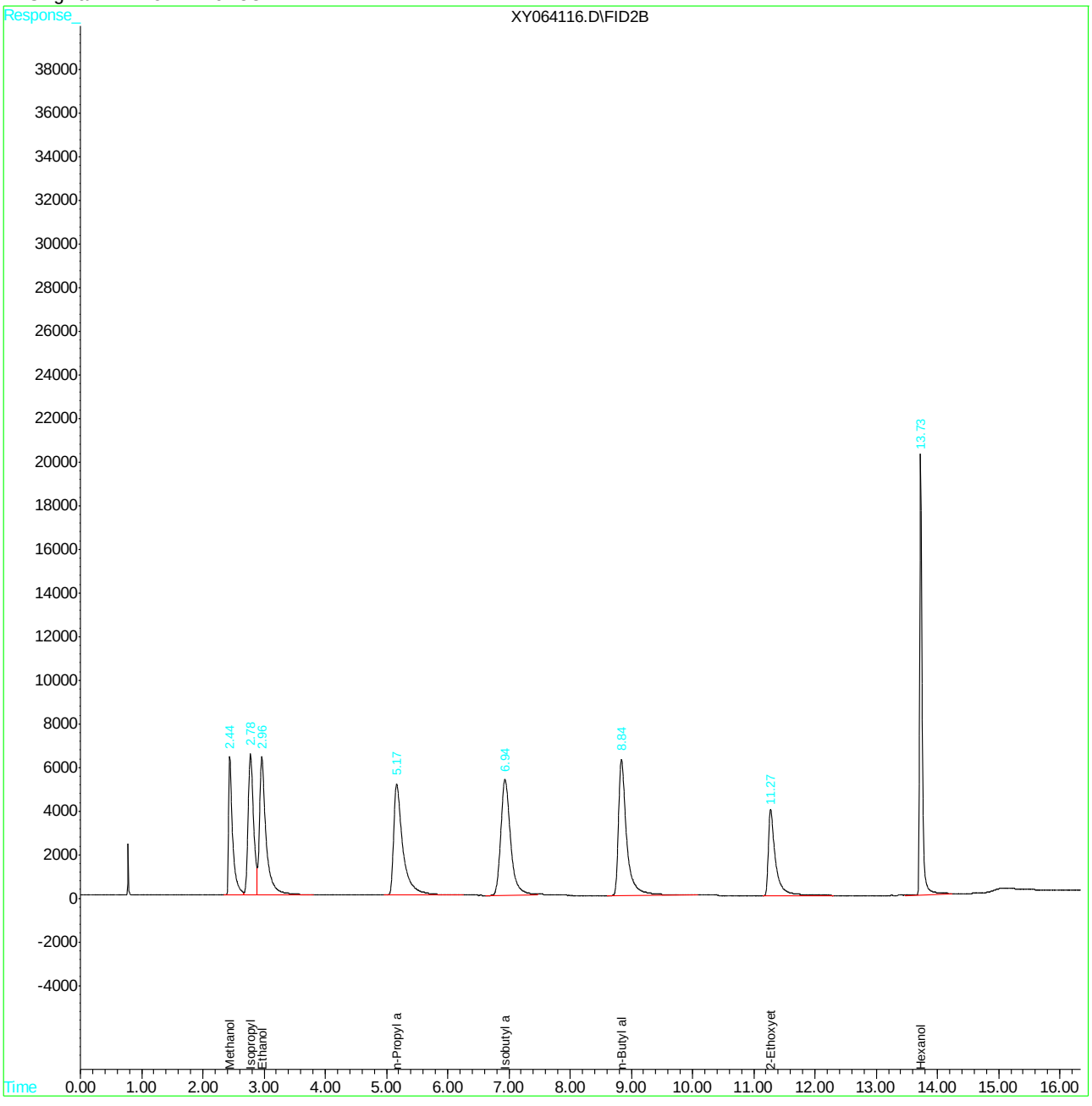
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064116.D D8015.M Fri May 06 08:44:27 2016 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064116.D Vial: 7
Acq On : 5 May 2016 12:13 pm Operator: StevenH
Sample : jc19423-2ams Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064117.D Vial: 7
Acq On : 5 May 2016 12:34 pm Operator: StevenH
Sample : jc19423-2amsd Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	583221	109.953 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 109.95%			
Target Compounds			
1) Methanol	2.44	300544	110.543 mg/L
2) Isopropyl alcohol	2.78	399106	107.884 mg/L
3) Ethanol	2.97	515176	118.309 mg/L
4) n-Propyl alcohol	5.18	554698	113.344 mg/L
5) Isobutyl alcohol	6.95	611394	108.008 mg/L
6) n-Butyl alcohol	8.87	597371	113.628 mg/L
7) 2-Ethoxyethanol	11.29	338353	115.698 mg/L

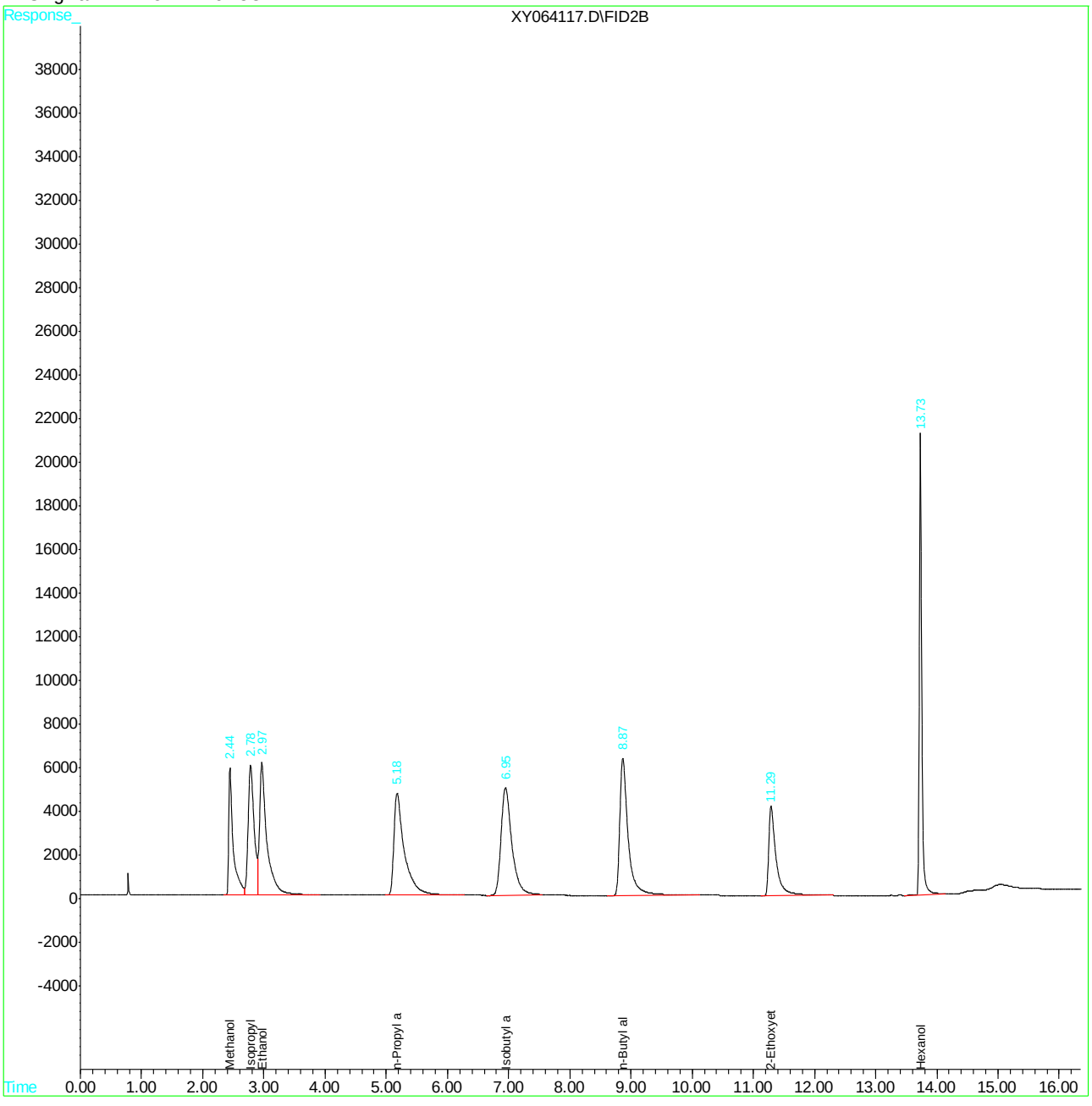
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064117.D D8015.M Fri May 06 08:44:29 2016 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064117.D Vial: 7
Acq On : 5 May 2016 12:34 pm Operator: StevenH
Sample : jc19423-2amsd Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050616\XY064124.D          Vial: 6
Acq On    :  6 May 2016   9:45 am                   Operator: StevenH
Sample    : jc19423-1ms                             Inst    : VOA5
Misc      : gc18795,gxy2775,4.78,,,10,1             Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  9  8:53 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Mon May 09 08:21:29 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

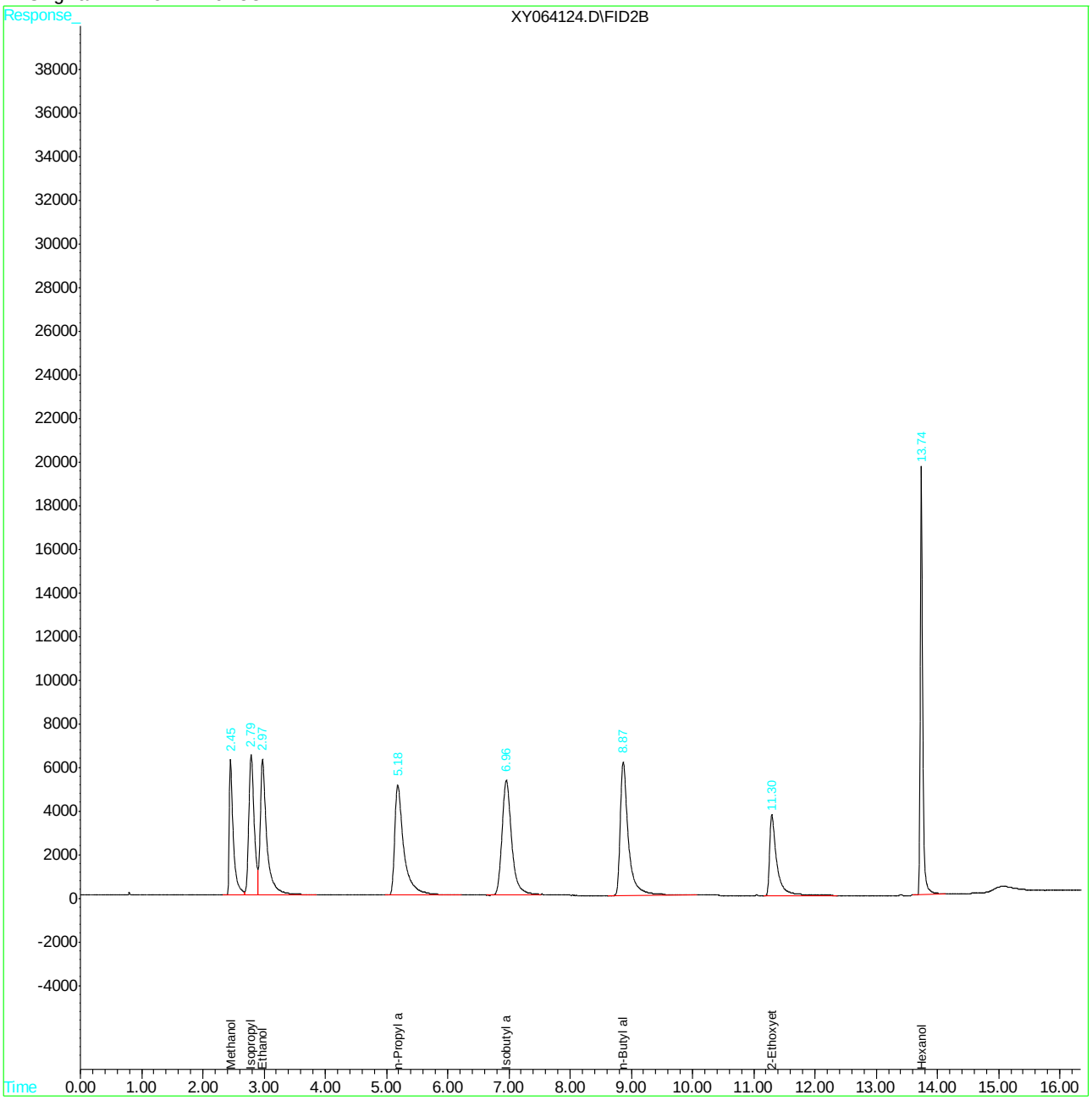
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.74	539690	101.746 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 101.75%			
Target Compounds			
1) Methanol	2.45	284017	104.464 mg/L
2) Isopropyl alcohol	2.79	397738	107.514 mg/L
3) Ethanol	2.98	461632	106.012 mg/L
4) n-Propyl alcohol	5.19	523799	107.030 mg/L
5) Isobutyl alcohol	6.96	582567	102.915 mg/L
6) n-Butyl alcohol	8.87	565846	107.631 mg/L
7) 2-Ethoxyethanol	11.30	300665	102.811 mg/L

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064124.D Vial: 6
Acq On : 6 May 2016 9:45 am Operator: StevenH
Sample : jc19423-1ms Inst : VOA5
Misc : gc18795,gxy2775,4.78,,,10,1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 9 8:53 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 09 08:21:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064125.D Vial: 6
Acq On : 6 May 2016 10:07 am Operator: StevenH
Sample : jc19423-1msd Inst : VOA5
Misc : gc18795,gxy2775,4.78,,,10,1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 9 8:53 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 09 08:21:29 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.74	606574	114.355 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 114.36%			
Target Compounds			
1) Methanol	2.45	315579	116.073 mg/L
2) Isopropyl alcohol	2.79	447053	120.845 mg/L
3) Ethanol	2.97	511590	117.485 mg/L
4) n-Propyl alcohol	5.18	585277	119.592 mg/L
5) Isobutyl alcohol	6.96	650605	114.935 mg/L
6) n-Butyl alcohol	8.88	633509	120.502 mg/L
7) 2-Ethoxyethanol	11.30	346703	118.553 mg/L

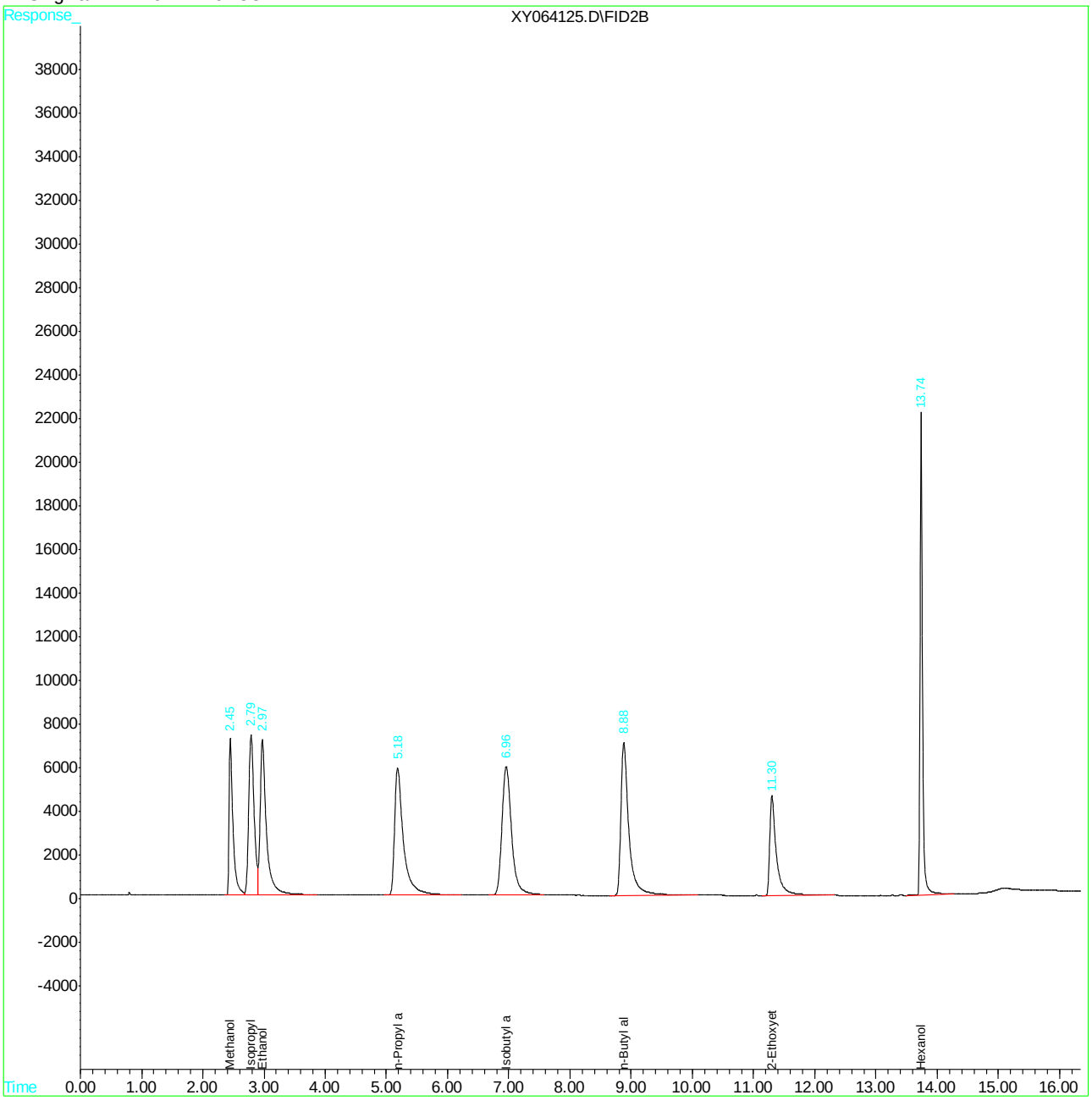
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064125.D Vial: 6
Acq On : 6 May 2016 10:07 am Operator: StevenH
Sample : jc19423-1msd Inst : VOA5
Misc : gc18795,gxy2775,4.78,,,10,1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 9 8:53 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 09 08:21:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Manual Integrations
APPROVED
(compounds with "m" flag)
Melissa Mangual
05/03/16 10:59

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050216\XY064080.D          Vial: 2
Acq On    :  2 May 2016   2:18 pm                   Operator: StevenH
Sample    : ic2772-1                                Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  3  7:33 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.70	10078	1.046 mg/L m
Spiked Amount 100.000 Range 57 - 142 Recovery = 1.05%#			
Target Compounds			
1) Methanol	2.48	5986	1.271 mg/L
2) Isopropyl alcohol	2.75	7749	1.205 mg/L
3) Ethanol	2.98	8501	1.141 mg/L
4) n-Propyl alcohol	5.16	9361	1.090 mg/L
5) Isobutyl alcohol	6.88	11067	1.116 mg/L
6) n-Butyl alcohol	8.77	9774	1.034 mg/L
7) 2-Ethoxyethanol	11.26	5432	1.041 mg/L

13.5.1
13

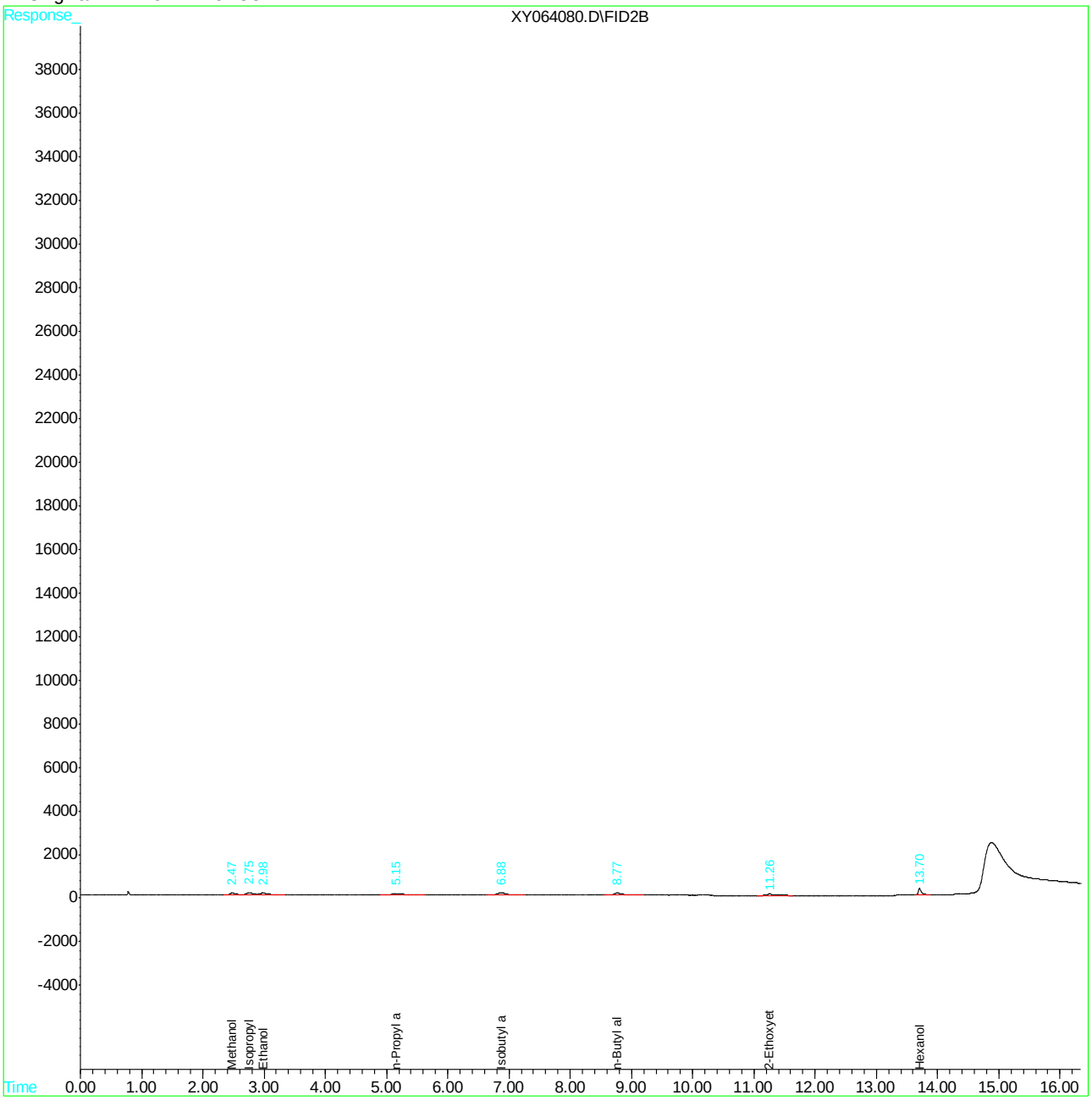
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064080.D Vial: 2
Acq On : 2 May 2016 2:18 pm Operator: StevenH
Sample : ic2772-1 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:33 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Manual Integration Approval Summary

Sample Number:	GXY2772-IC2772	**Method:**	SW846 8015C
Lab FileID:	XY064080.D	**Analyst approved:**	05/03/16 09:32 Steven Heller
Injection Time:	05/02/16 14:18	**Supervisor approved:**	05/03/16 10:59 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexanol	111-27-3	1	13.70	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/03/16 10:59

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064081.D Vial: 3
Acq On : 2 May 2016 3:00 pm Operator: StevenH
Sample : ic2772-2 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:34 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.70	25058	2.601 mg/L m
Spiked Amount 100.000 Range 57 - 142 Recovery = 2.60%#			
Target Compounds			
1) Methanol	2.45	13880	2.947 mg/L
2) Isopropyl alcohol	2.74	18265	2.839 mg/L
3) Ethanol	2.96	21780	2.924 mg/L
4) n-Propyl alcohol	5.14	24540	2.859 mg/L
5) Isobutyl alcohol	6.86	28610	2.885 mg/L
6) n-Butyl alcohol	8.76	25253	2.671 mg/L
7) 2-Ethoxyethanol	11.24	13590	2.604 mg/L

13.5.2
13

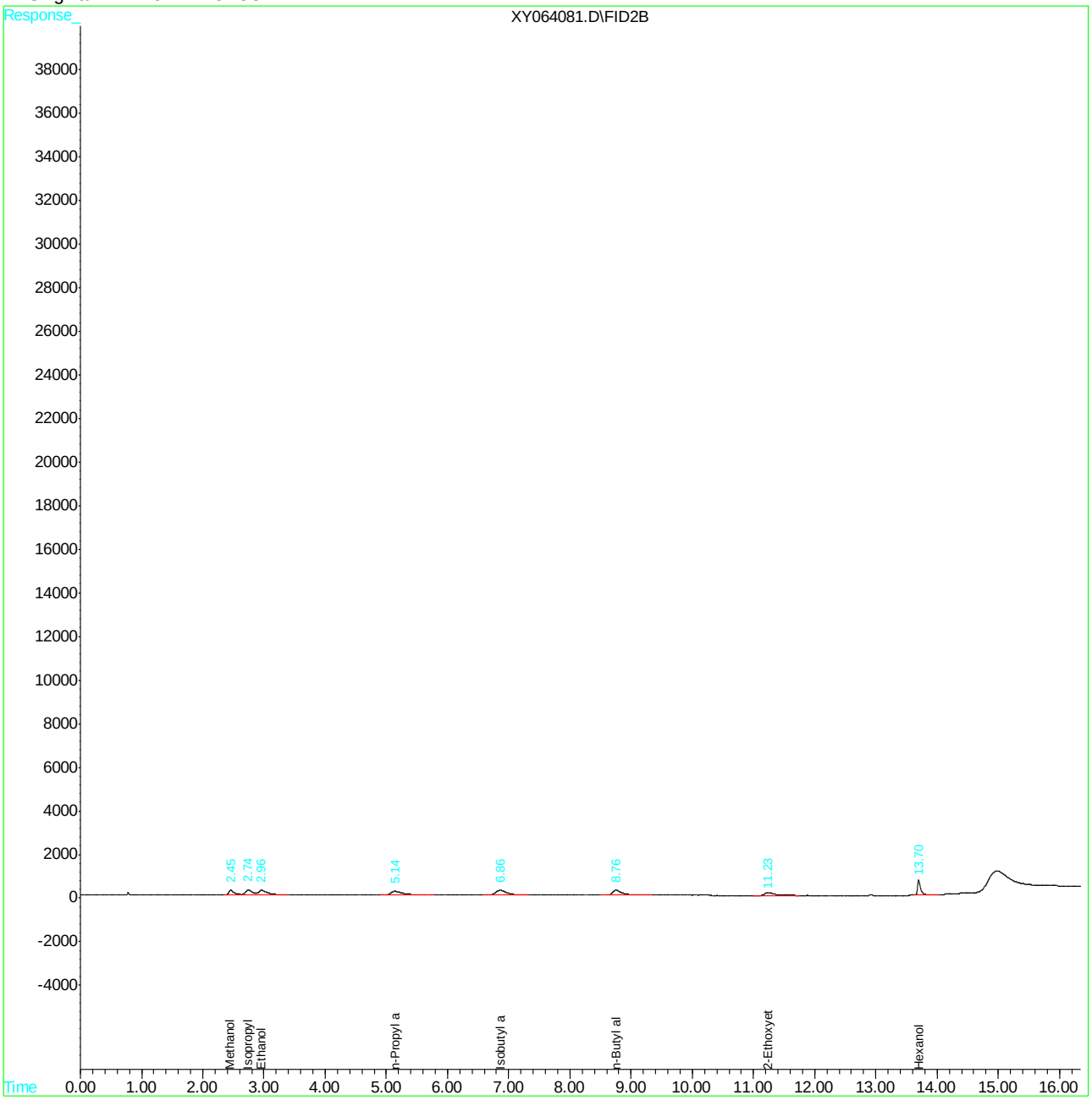
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064081.D D8015.M Tue May 03 07:44:29 2016

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064081.D Vial: 3
Acq On : 2 May 2016 3:00 pm Operator: StevenH
Sample : ic2772-2 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:34 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Manual Integration Approval Summary

Sample Number:	GXY2772-IC2772	**Method:**	SW846 8015C
Lab FileID:	XY064081.D	**Analyst approved:**	05/03/16 09:32 Steven Heller
Injection Time:	05/02/16 15:00	**Supervisor approved:**	05/03/16 10:59 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexanol	111-27-3	1	13.70	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/03/16 10:59

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064082.D Vial: 4
Acq On : 2 May 2016 3:22 pm Operator: StevenH
Sample : ic2772-3 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:34 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.70	148444	15.407 mg/L m
Spiked Amount 100.000 Range 57 - 142 Recovery = 15.41%#			
Target Compounds			
1) Methanol	2.44	64258	13.643 mg/L
2) Isopropyl alcohol	2.75	84903	13.197 mg/L
3) Ethanol	2.96	110361	14.816 mg/L
4) n-Propyl alcohol	5.15	119484	13.918 mg/L
5) Isobutyl alcohol	6.87	134431	13.557 mg/L
6) n-Butyl alcohol	8.76	128626	13.605 mg/L
7) 2-Ethoxyethanol	11.23	71964	13.791 mg/L

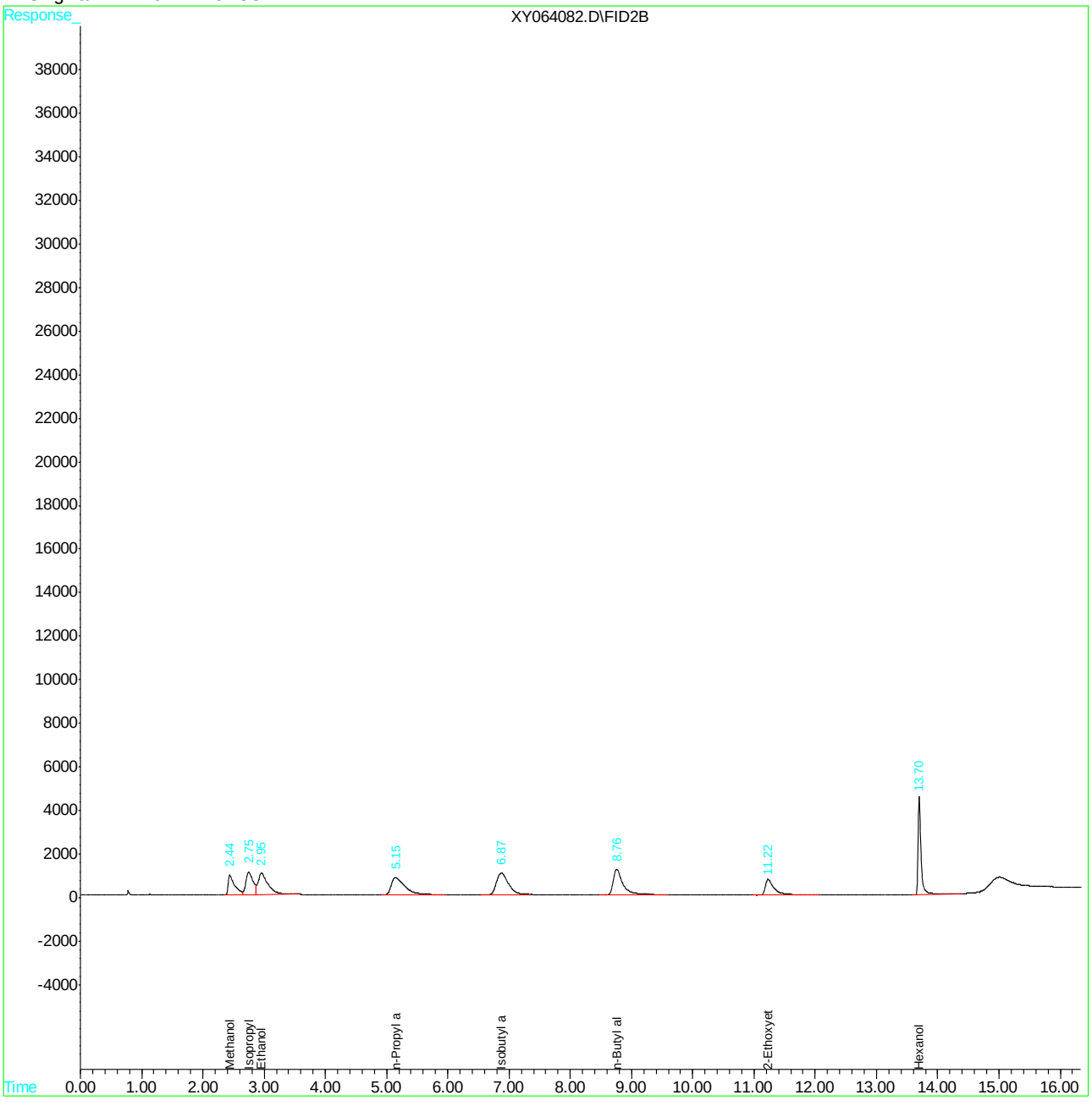
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064082.D Vial: 4
Acq On : 2 May 2016 3:22 pm Operator: StevenH
Sample : ic2772-3 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:34 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Manual Integration Approval Summary

Sample Number:	GXY2772-IC2772	**Method:**	SW846 8015C
Lab FileID:	XY064082.D	**Analyst approved:**	05/03/16 09:32 Steven Heller
Injection Time:	05/02/16 15:22	**Supervisor approved:**	05/03/16 10:59 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexanol	111-27-3	1	13.70	Poor instrument integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064083.D Vial: 5
Acq On : 2 May 2016 3:43 pm Operator: StevenH
Sample : icc2772-4 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 2 16:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.70	528072	54.809 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 54.81%#			
Target Compounds			
1) Methanol	2.41	279952	59.438 mg/L
2) Isopropyl alcohol	2.74	373158	58.001 mg/L
3) Ethanol	2.92	473754	63.602 mg/L
4) n-Propyl alcohol	5.10	517797	60.316 mg/L
5) Isobutyl alcohol	6.86	592309	59.732 mg/L
6) n-Butyl alcohol	8.74	560425	59.278 mg/L
7) 2-Ethoxyethanol	11.21	312068	59.803 mg/L

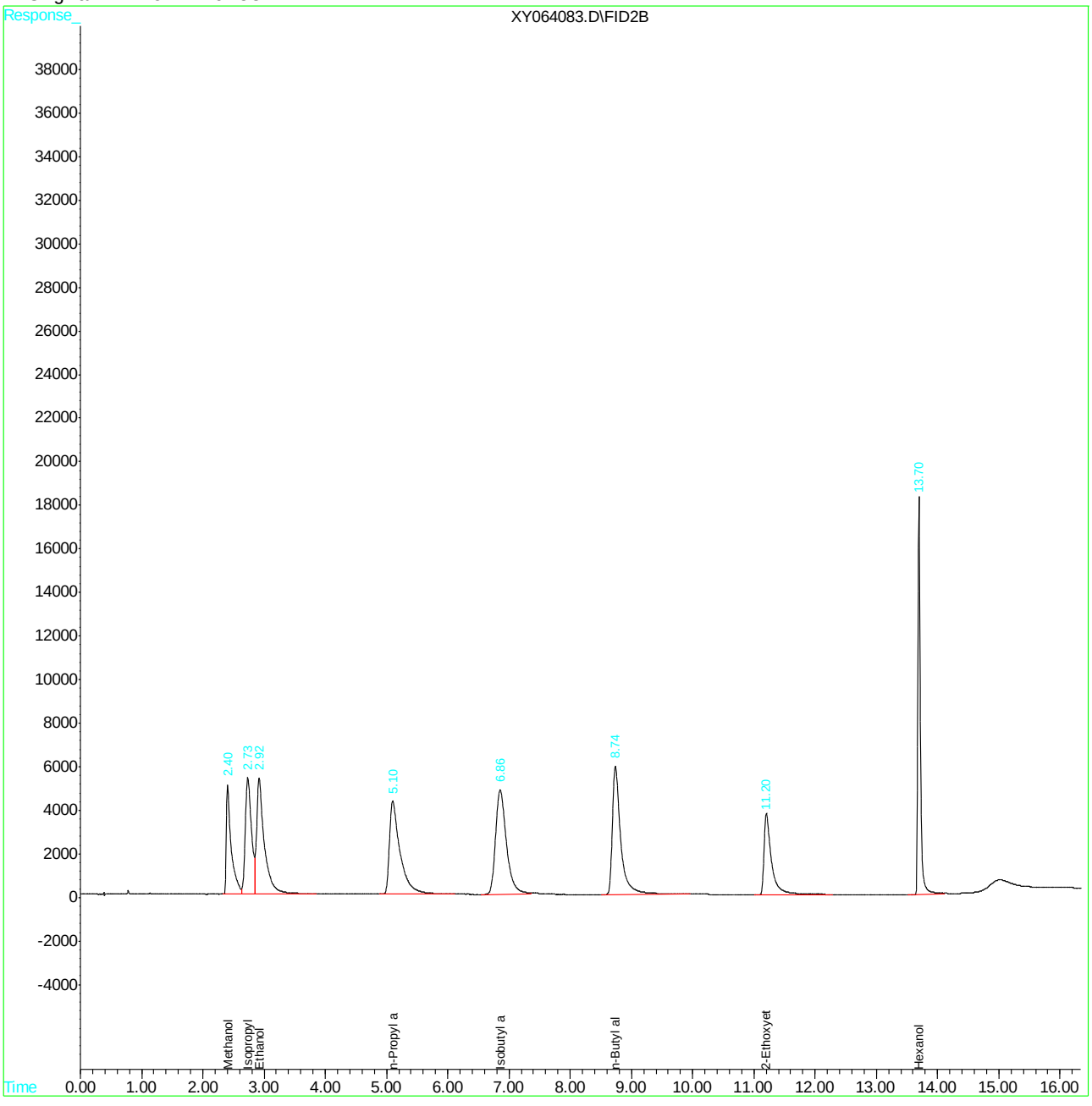
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064083.D D8015.M Tue May 03 07:44:32 2016

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064083.D Vial: 5
Acq On : 2 May 2016 3:43 pm Operator: StevenH
Sample : icc2772-4 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 2 16:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050216\XY064084.D          Vial: 6
Acq On    :  2 May 2016   4:04 pm                   Operator: StevenH
Sample    : ic2772-5                                Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  2 16:36 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.69	1290694	133.962 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 133.96%			
Target Compounds			
1) Methanol	2.40	656134	139.306 mg/L
2) Isopropyl alcohol	2.73	899899	139.875 mg/L
3) Ethanol	2.91	1082008	145.261 mg/L
4) n-Propyl alcohol	5.09	1219215	142.021 mg/L
5) Isobutyl alcohol	6.85	1396762	140.857 mg/L
6) n-Butyl alcohol	8.72	1323725	140.014 mg/L
7) 2-Ethoxyethanol	11.19	749665	143.660 mg/L

13.5.5

13

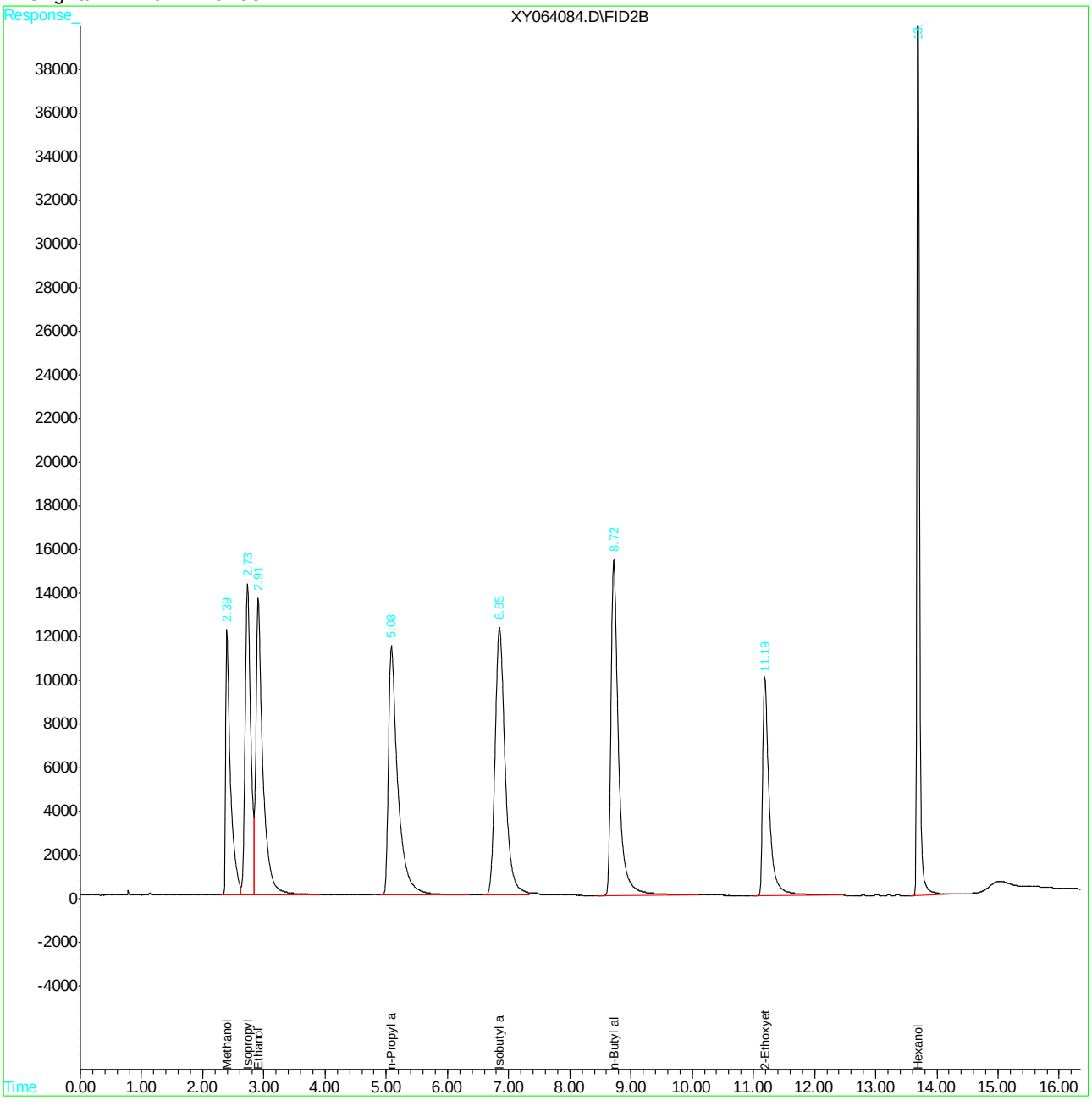
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064084.D Vial: 6
Acq On : 2 May 2016 4:04 pm Operator: StevenH
Sample : ic2772-5 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 2 16:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064085.D Vial: 7
Acq On : 2 May 2016 4:26 pm Operator: StevenH
Sample : ic2772-6 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:35 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.69	2705536	280.810 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 280.81%#			
Target Compounds			
1) Methanol	2.38	1334044	283.235 mg/L
2) Isopropyl alcohol	2.72	1927228	299.557 mg/L
3) Ethanol	2.89	2142314	287.608 mg/L
4) n-Propyl alcohol	5.06	2489394	289.978 mg/L
5) Isobutyl alcohol	6.84	2900763	292.529 mg/L
6) n-Butyl alcohol	8.71	2737807	289.586 mg/L
7) 2-Ethoxyethanol	11.18	1513751	290.085 mg/L

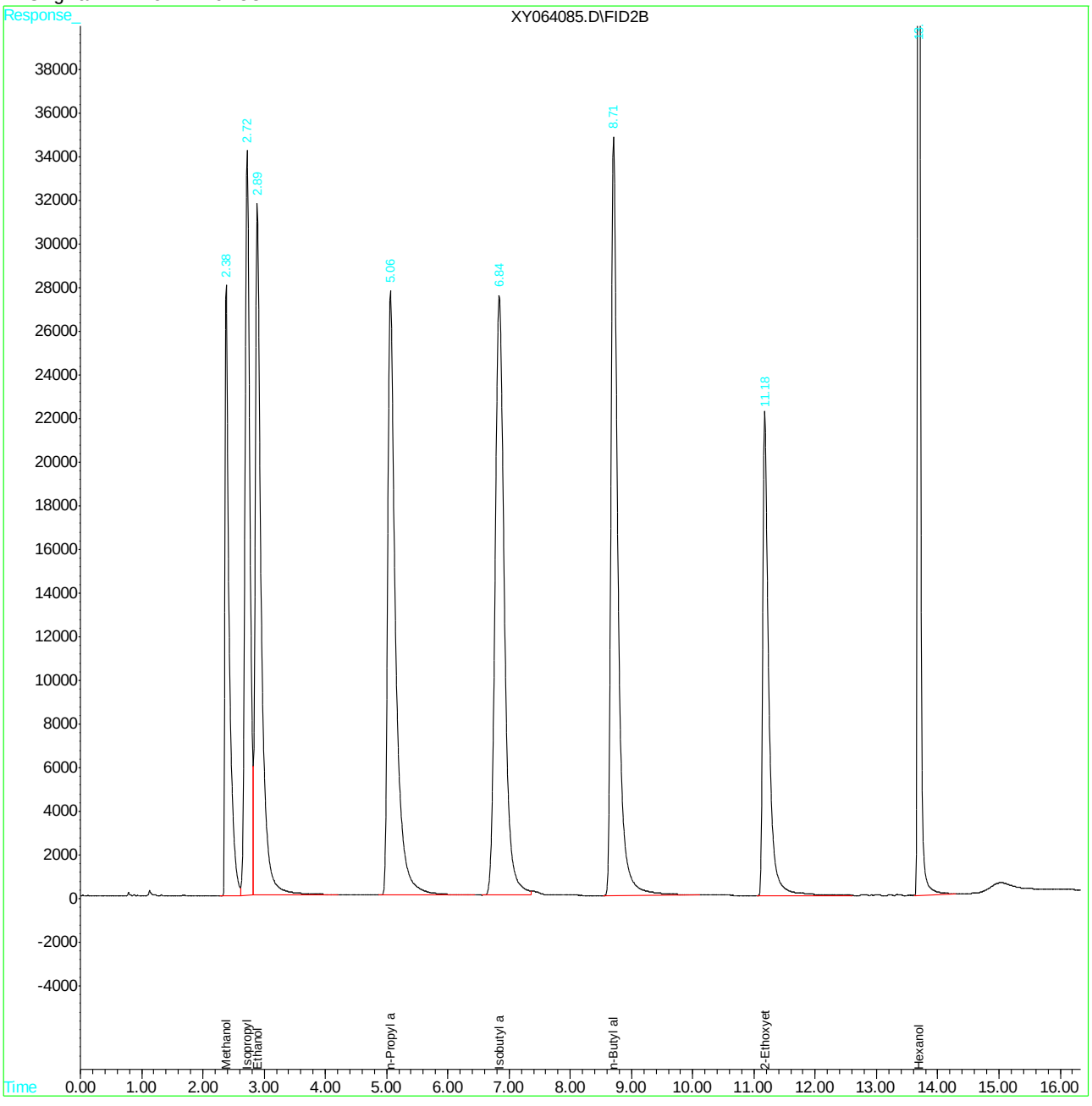
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064085.D D8015.M Tue May 03 07:44:35 2016

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064085.D Vial: 7
Acq On : 2 May 2016 4:26 pm Operator: StevenH
Sample : ic2772-6 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:35 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064086.D Vial: 8
Acq On : 2 May 2016 4:47 pm Operator: StevenH
Sample : ic2772-7 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.69	5286903	548.733 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 548.73%#			
Target Compounds			
1) Methanol	2.37	2599968	552.007 mg/L
2) Isopropyl alcohol	2.72	3786367	588.530 mg/L
3) Ethanol	2.88	4110606	551.854 mg/L
4) n-Propyl alcohol	5.05	4856237	565.680 mg/L
5) Isobutyl alcohol	6.83	5680267	572.830 mg/L
6) n-Butyl alcohol	8.69	5343327	565.179 mg/L
7) 2-Ethoxyethanol	11.17	3011713	577.143 mg/L

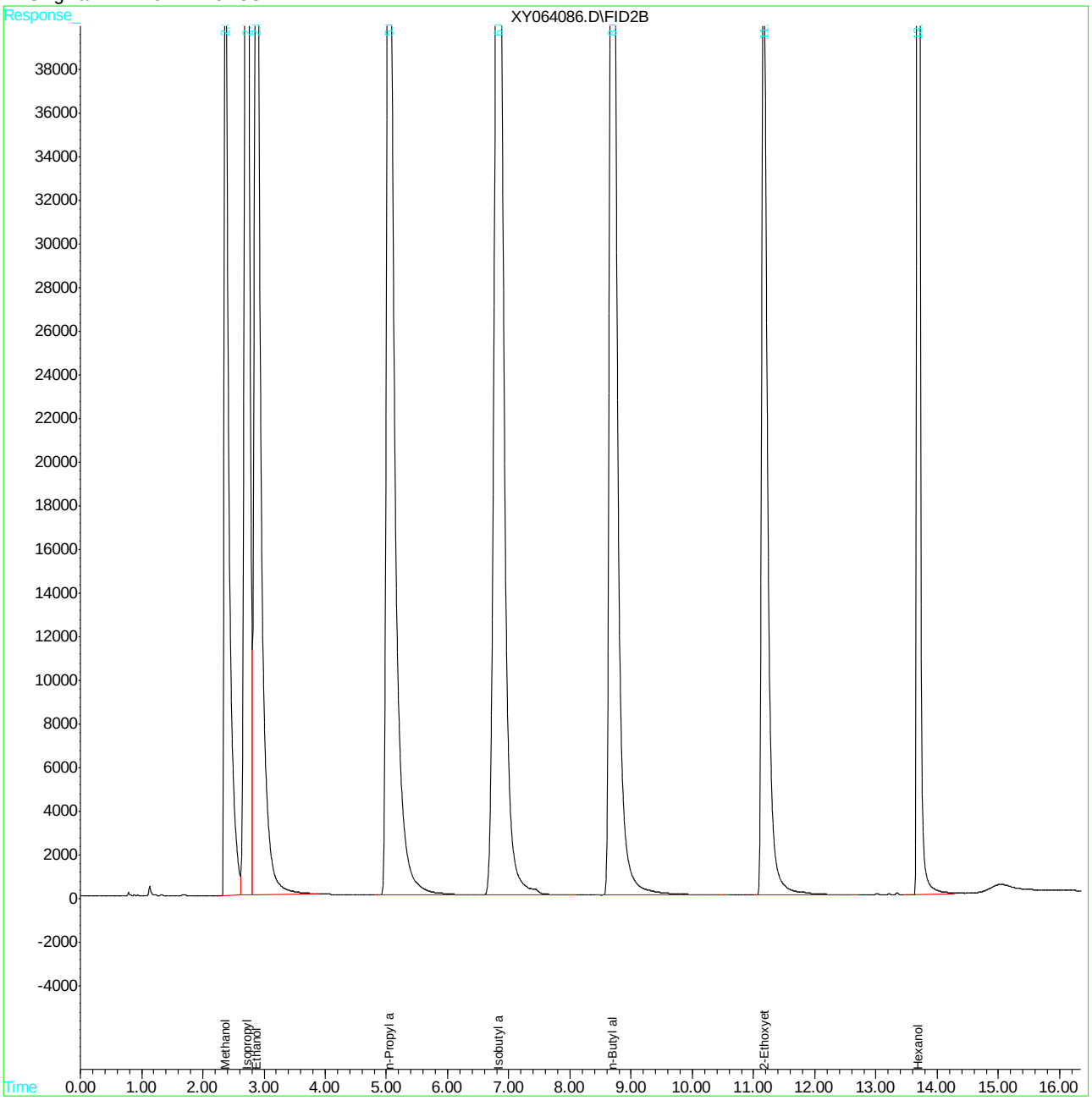
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064086.D D8015.M Tue May 03 07:44:37 2016 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064086.D Vial: 8
Acq On : 2 May 2016 4:47 pm Operator: StevenH
Sample : ic2772-7 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050216\XY064088.D          Vial: 10
Acq On    :  2 May 2016   5:30 pm                   Operator: StevenH
Sample    : icv2772-4                               Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  3  7:38 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.70	578268	109.019 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 109.02%			
Target Compounds			
1) Methanol	2.40	305082	112.212 mg/L
2) Isopropyl alcohol	2.74	424039	114.624 mg/L
3) Ethanol	2.92	492395	113.077 mg/L
4) n-Propyl alcohol	5.10	558137	114.047 mg/L
5) Isobutyl alcohol	6.87	616659	108.938 mg/L
6) n-Butyl alcohol	8.77	599559	114.044 mg/L
7) 2-Ethoxyethanol	11.22	339903	116.228 mg/L

13.5.8

13

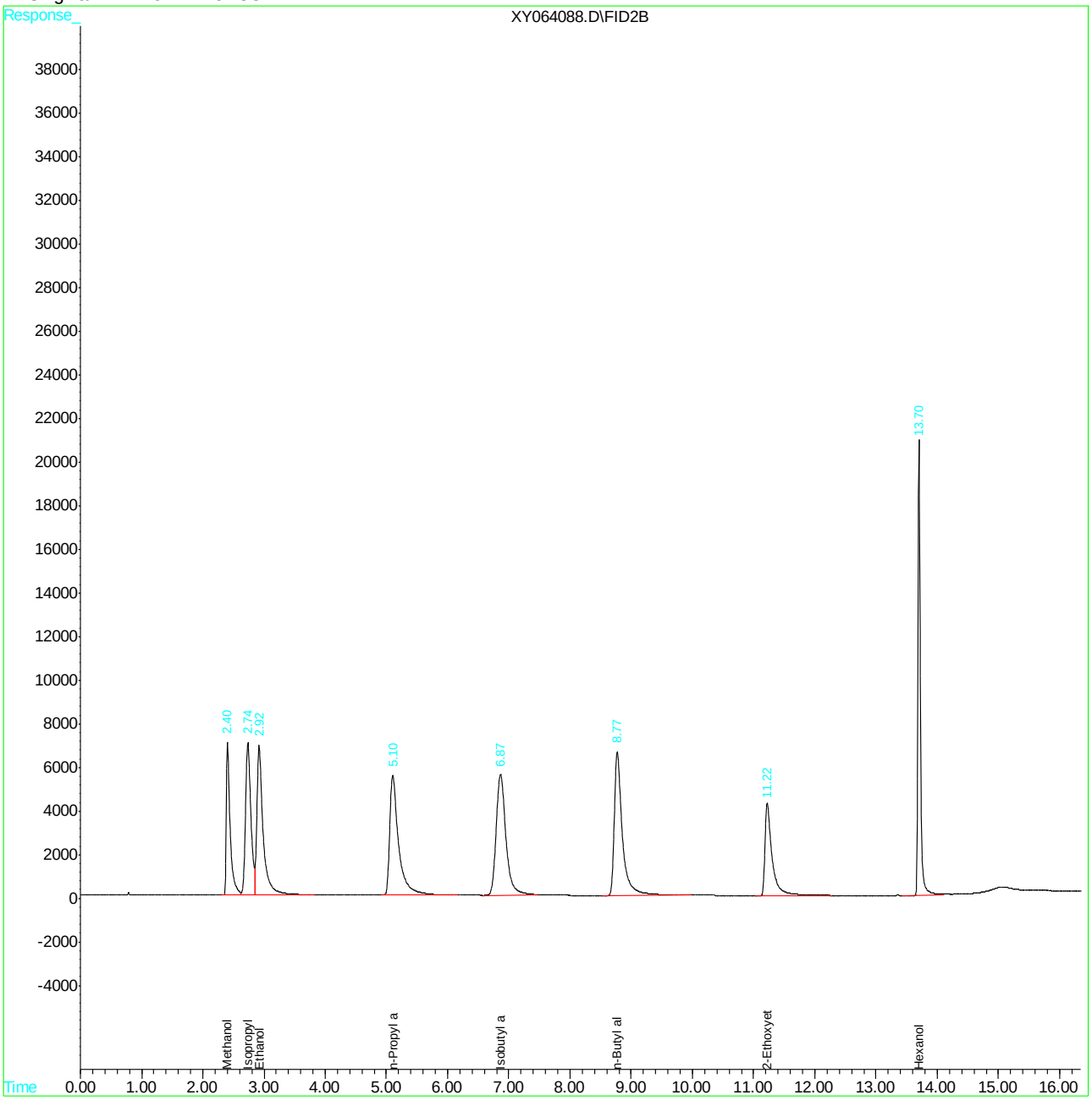
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064088.D Vial: 10
Acq On : 2 May 2016 5:30 pm Operator: StevenH
Sample : icv2772-4 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:38 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



XY064088.D D8015.M Tue May 03 09:18:02 2016 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064110.D Vial: 1
Acq On : 5 May 2016 10:04 am Operator: StevenH
Sample : cc2772-4 Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	533504	100.580 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 100.58%			
Target Compounds			
1) Methanol	2.44	289548	106.499 mg/L
2) Isopropyl alcohol	2.77	399355	107.951 mg/L
3) Ethanol	2.96	460345	105.717 mg/L
4) n-Propyl alcohol	5.16	528523	107.995 mg/L
5) Isobutyl alcohol	6.93	608810	107.551 mg/L
6) n-Butyl alcohol	8.82	577033	109.759 mg/L
7) 2-Ethoxyethanol	11.27	317951	108.722 mg/L

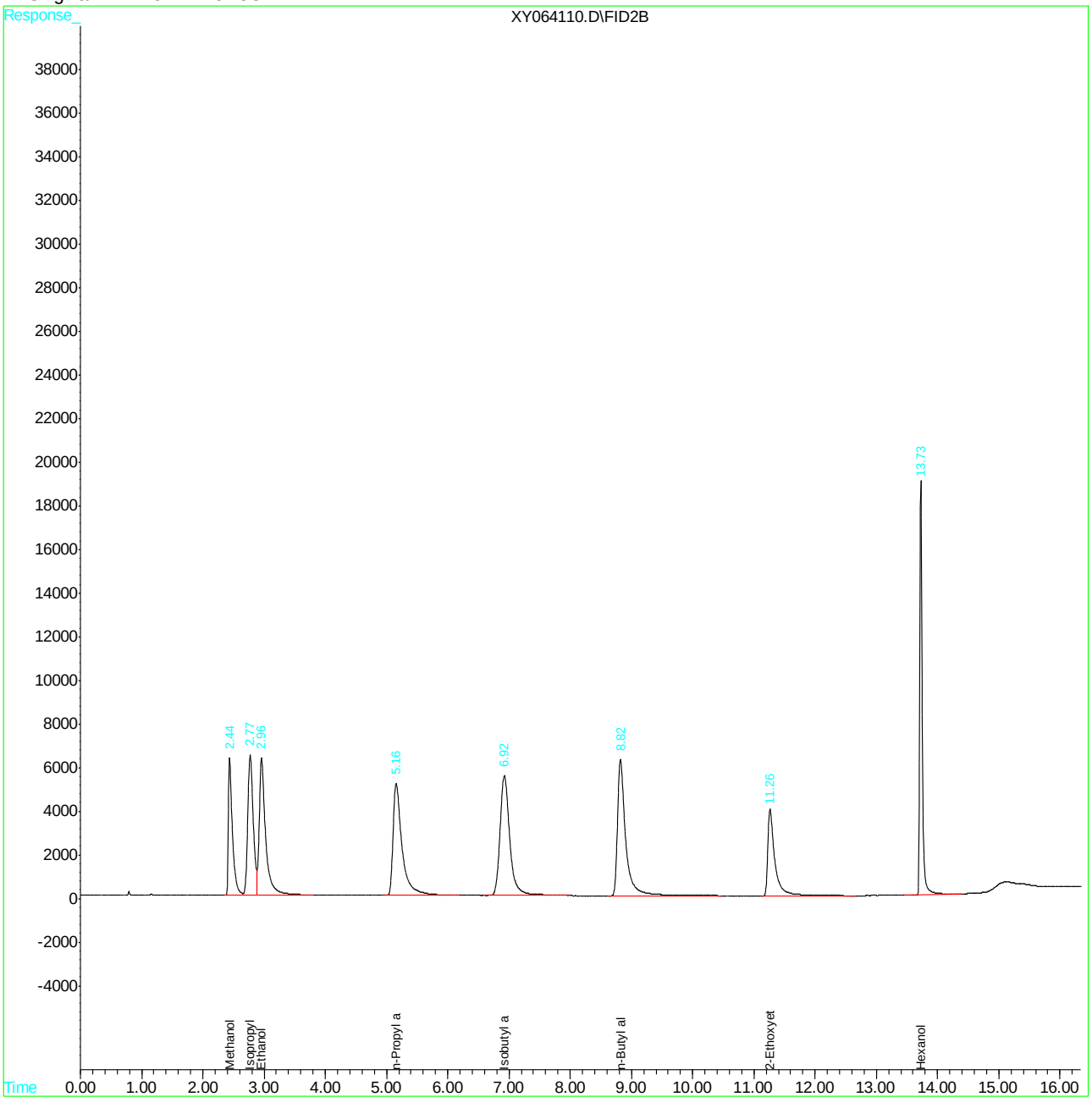
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064110.D Vial: 1
Acq On : 5 May 2016 10:04 am Operator: StevenH
Sample : cc2772-4 Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050516\XY064118.D          Vial: 8
Acq On    :  5 May 2016  12:56 pm                   Operator: StevenH
Sample    : ecc2772-5                               Inst    : VOA5
Misc      : gc18792,gxy2774,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  6  8:43 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

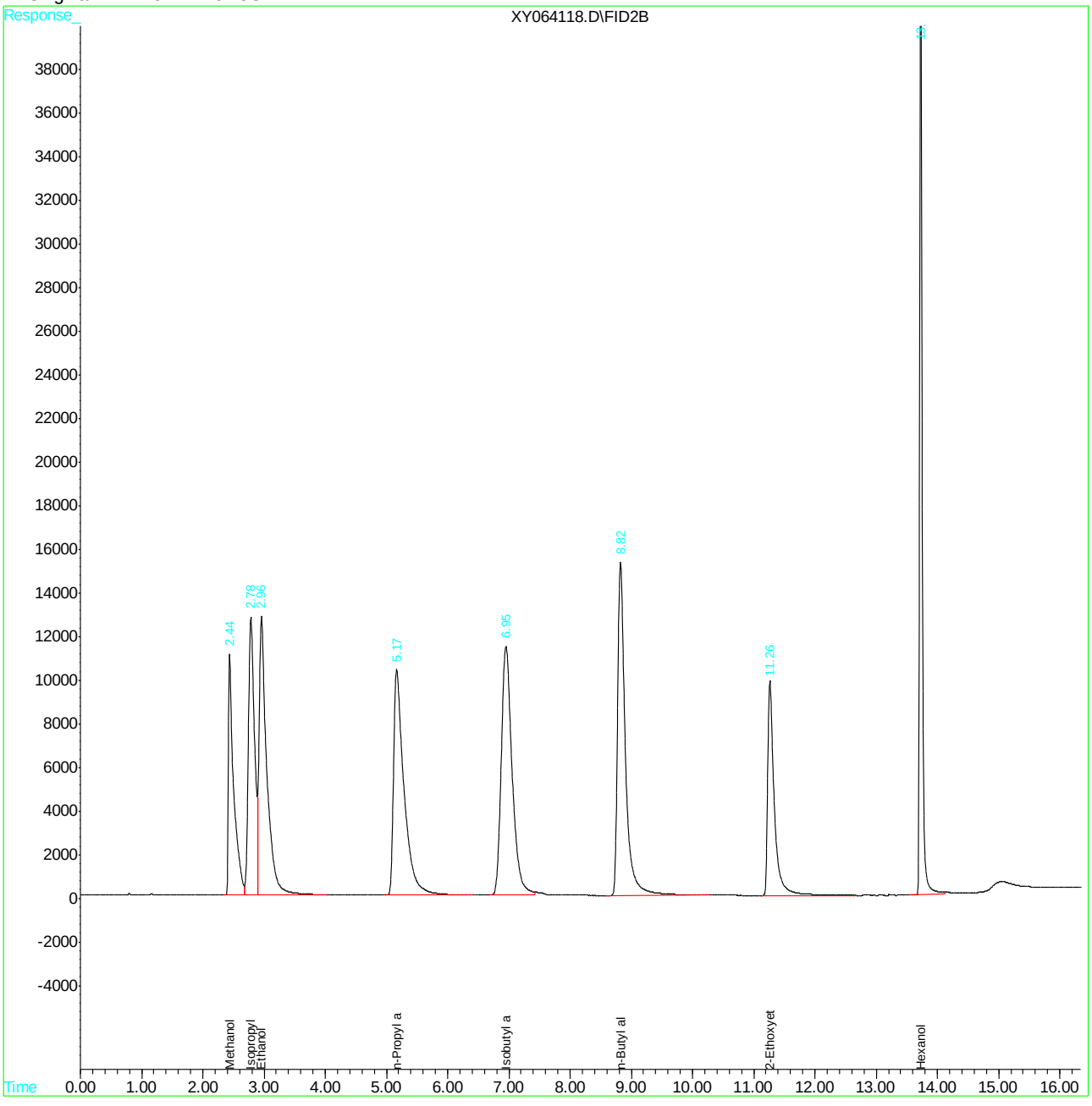
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	1288124	242.846 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 242.85%#			
Target Compounds			
1) Methanol	2.44	667405	245.478 mg/L
2) Isopropyl alcohol	2.79	881188	238.198 mg/L
3) Ethanol	2.96	1129682	259.428 mg/L
4) n-Propyl alcohol	5.17	1232215	251.784 mg/L
5) Isobutyl alcohol	6.95	1406514	248.472 mg/L
6) n-Butyl alcohol	8.82	1336748	254.267 mg/L
7) 2-Ethoxyethanol	11.27	739342	252.814 mg/L

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064118.D Vial: 8
Acq On : 5 May 2016 12:56 pm Operator: StevenH
Sample : ecc2772-5 Inst : VOA5
Misc : gc18792,gxy2774,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 6 8:43 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



XY064118.D D8015.M Fri May 06 08:44:31 2016 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064119.D Vial: 1
Acq On : 6 May 2016 7:57 am Operator: StevenH
Sample : cc2772-4 Inst : VOA5
Misc : gc18795,gxy2775,5.00,,,10,1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 9 8:53 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 09 08:21:29 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	560482	105.666 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 105.67%			
Target Compounds			
1) Methanol	2.44	301701	110.968 mg/L
2) Isopropyl alcohol	2.78	421608	113.967 mg/L
3) Ethanol	2.96	478428	109.870 mg/L
4) n-Propyl alcohol	5.16	552292	112.852 mg/L
5) Isobutyl alcohol	6.93	632815	111.792 mg/L
6) n-Butyl alcohol	8.83	598757	113.891 mg/L
7) 2-Ethoxyethanol	11.27	320721	109.669 mg/L

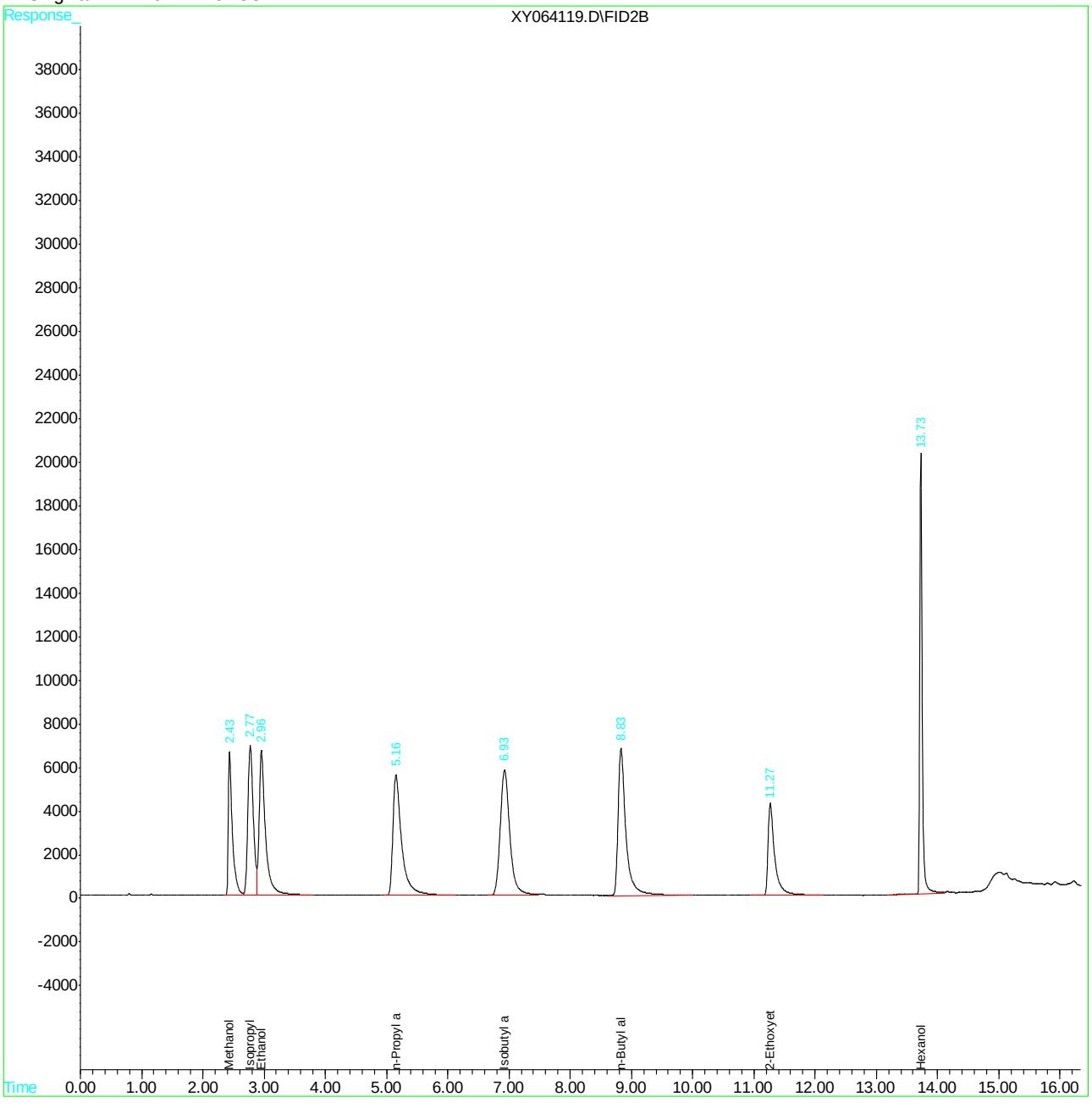
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064119.D D8015.M Mon May 09 08:57:48 2016 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064119.D Vial: 1
Acq On : 6 May 2016 7:57 am Operator: StevenH
Sample : cc2772-4 Inst : VOA5
Misc : gc18795,gxy2775,5.00,,,10,1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 9 8:53 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 09 08:21:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064127.D Vial: 7
Acq On : 6 May 2016 10:56 am Operator: StevenH
Sample : ecc2772-5 Inst : VOA5
Misc : gc18795,gxy2775,5.00,,,10,1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 9 8:53 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 09 08:21:29 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	1180324	222.522 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 222.52%#			
Target Compounds			
1) Methanol	2.44	606581	223.106 mg/L
2) Isopropyl alcohol	2.78	828368	223.920 mg/L
3) Ethanol	2.96	1006276	231.088 mg/L
4) n-Propyl alcohol	5.17	1123050	229.478 mg/L
5) Isobutyl alcohol	6.94	1307107	230.911 mg/L
6) n-Butyl alcohol	8.80	1228905	233.754 mg/L
7) 2-Ethoxyethanol	11.26	670662	229.329 mg/L

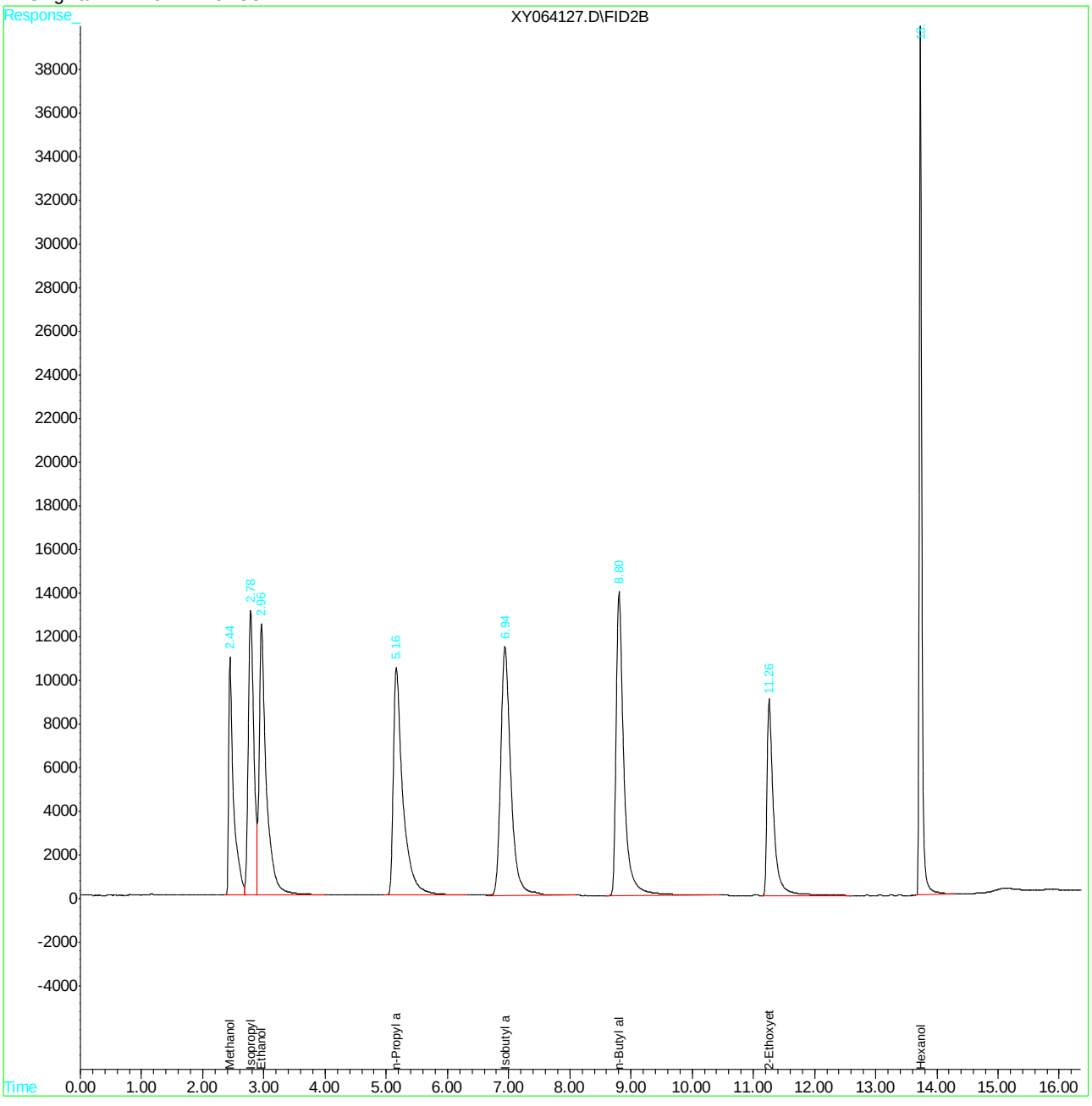
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064127.D Vial: 7
Acq On : 6 May 2016 10:56 am Operator: StevenH
Sample : ecc2772-5 Inst : VOA5
Misc : gc18795,gxy2775,5.00,,,10,1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 9 8:53 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 09 08:21:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



ACCUTEST LABORATORIES SF

DATE:	5/2/16
COLUMN TYPE:	Stabilwax
DETECTOR:	FID
INSTRUMENT:	VOA5-XY
ANALYST:	SH

1-12 pH LOT 200814
0-3 pH LOT 204413A

GC VOA5-XY ANALYSIS LOG

METHODS:	Alcohols
METHOD FILE:	8015 / DAI WAX
CALIB. DATE:	5/2/16
RUN ID:	GXY 2772

STANDARDS

ICAL/CCV:	V20132
ISTD/SURR:	V19752
ICV/QC:	7896A
AMBIENT TEMP.:	NA
THERM ID:	↓

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	FINAL VOL.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	RR	COMMENTS
XY 060071	CC 2728-4	NA	W	1.0	1ml	1		NA	✓	✓ 100ml + 900ml STDS 7 + 6
XY 72	4					1			✓	✓ NEW LINER
XY 73	4					1			✓	✓
XY 74	4					1			✓	✓ SH 5/2/16
XY 75	4					1			✓	✓ new ~~syringe~~ syringe
XY 76	4					1			✓	✓ STD's Bottle
XY 77	4					1			✓	✓
XY 78	4					1			✓	✓
XY 79	4					1			✓	✓
XY 80	IC2772-1					2	8 PII			2ul + 998ul ✓
XY 81	2					3	8 PII			5ul + 995ul ✓
XY 82	3					4	8 PII			25ul + 975ul ✓
XY 83	4					5				100ul + 900ul ✓
XY 84	5					6				250ul + 750ul ✓
XY 85	6					7				750ul + 250ul ✓
XY 86	7					8				stock ✓
XY 87	Blank					9				SH 5/2/16 ✓
XY 88	IC2772-4					10				~~100~~ 10ul - 1ml ✓
XY 89	CC2772-4				SH 5/2/16	~~X~~ 5				100ul + 900ul ✓
XY 90	BS					11				10ul - 1ml ✓
XY 91	MB	↓				12		↓		✓
XY 92	JC19023-3	1				13		1		✓
XY 93	JC19214-1A	1				14		1		✓
XY 94	2A	1				15		1		✓
XY 95	2A MS	1				16		1		10ul - 1ml ✓
XY 96	2A MSD	1				16		1		↓ ✓
XY 97	ECC2772-5	NA	↓	↓	↓	~~X~~ 6		NA		250ul + 750ul ✓

SH 5/2/16

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: SH

gcvoa5_xy_log.xls NF 08/15

ACCUTEST LABORATORIES SE

DATE:	5/5/16
COLUMN TYPE:	stabilwax
DETECTOR:	FID
INSTRUMENT:	VOA5-XY
ANALYST:	SH

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

GC VOA5-XY ANALYSIS LOG

METHODS:	Alcohols
METHOD FILE:	8015/DAIWAX
CALIB. DATE:	5/2/16
RUN ID:	GXY 2774

STANDARDS

ICAL/CCV:	V20132
ISTD/SURR:	V19752
ICV/QC:	7892A
AMBIENT TEMP.:	NA
THERM ID:	↓

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	FINAL VOL.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	RR	COMMENTS
XY 064110	CL2772-4	NA	W	~~NA~~ 1mL	1mL	1		NA		100ul + 900ul ✓
XY 11	BS	↓	↓ SH 5/5/16	~~5.00g/100mL~~	↓	2		↓		10ul - 1ml ✓
XY 12	MB					3				✓
XY 13	JC19423-2A	5				4		1		✓
XY 14	JC19423-1	1				5		1		✓
XY 15	2A	1				6		1		✓
XY 16	JC19423-2A MS	5				7		1		10ul - 1ml ✓
XY 17	MSD	5				7		1		✓
XY 18	ECL2772-5	NA	↓	↓	↓	8		NA		250ul + 750ul ✓
XY										
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SH 5/6/16

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: SH

gcvoa5_xy_log.xls NF 08/15

ACCUTEST LABORATORIES SE

DATE:	5/6/16
COLUMN TYPE:	Stabilwax
DETECTOR:	FID
INSTRUMENT:	VOA5-XY
ANALYST:	SH

GC VOA5-XY ANALYSIS LOG

METHODS:	Alcohols
METHOD FILE:	AALWAX / 08015
CALIB. DATE:	5/2/16
RUN ID:	GXY 2775

STANDARDS

ICAL/CCV:	V20132
ISTD/SURR:	V19752
ICV/QC:	7896A
AMBIENT TEMP.:	NA
THERM ID:	✓

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	FINAL VOL.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	RR	COMMENTS
XY 0641 18	CL2772-4	NA	5	5.00	10mL 1ul	1		NA		100ul to 900ul ✓
XY 20 19	BS	↓	↓	↓	↓	2		↓		10ul - 1mL ✓
XY 21 20	MB					3				✓
XY 22 21	JC19423-1			4.78g	10mL	4				AA604 ✓
XY 23 22	JC19473-3			4.77g	10mL	5				AA605 ✓
XY 24 23	JC19423-1 MS			4.78g	10mL	6				AA604 10ul - 1mL ✓
XY 25 24	1MSD			↓	↓	6				↓ ↓ ↓ ✓
XY 26 25	ECL2772-5	↓	↓	NA	↓	7		✓	✓	250ul to 250ul HI
XY 27 26	ECL2772-5					7				↓ ↓ ✓
XY	SH 5/6/16									
XY										
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Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: SH

gcvoa5_xy_log.xls NF 08/15

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 1

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
AA597	FA32961-7	m	29.62	35.66	6.04	04/08/16	11:54	AH	PT	IN
98	-9	W	30.70	30.71	0.01	↓	↓	↓	↓	↓
99	-9	U	31.04	31.04	0.00	↓	↓	↓	↓	↓
AA600	-9	m	29.58	29.49	-0.09	↓	↓	↓	↓	↓
01	JC19023-1	W Bot 1	–		4.91	05/04/16	10:05	ACH	5030A	OOH 10mLFV
02	-2	↓ Bot ~~2~~ 1 ACH 05/04/16	–		5.05	↓	↓	↓	↓	↓
03	-4	↓ Bot ~~2~~ 1 ACH 05/04/16	–		5.00	↓	↓	↓	↓	↓
04	JC19423-1	W BOT 1	–		4.78	5/5/16	14:24	SH	5030A	OOH 10 mL FV
05	JC19473-3	↓ BOT 1	–		4.77	↓	↓	↓	↓	↓ ↓
06										
07										
08										
09										
10										
11										
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15										
16										
17										
18										
19										

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 1.xls NF rev 08/11

Instrument Run Log GXY2775 page 2 of 2

SGS ACCUTEST JC19423

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