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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

SGS Accutest Job Number: JC19473

Sampling Dates: 04/30/16 - 05/02/16

Report to:

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ATTN: Terry Taylor

Total number of pages in report: **1308**

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: JC19473

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC19473-1	04/30/16	12:00	TT	05/03/16	AQ	Equipment Blank	BPEB-10
JC19473-2	05/02/16	11:30	TT	05/03/16	AQ	Ground Water	RA-18 GWS
JC19473-2A	05/02/16	11:30	TT	05/03/16	AQ	Ground Water	RA-18 GWS
JC19473-3	05/02/16	13:00	TT	05/03/16	SO	Soil	RA-18 (12.5-13.5)

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC19473
Site:	BMSMC, Building 5 Area, PR	**Report Date**	5/16/2016 2:40:00 PM

On 05/03/2016, 2 Sample(s), 1 Equipment Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 3.6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC19473 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP93555

- All samples were extracted within the recommended method holding time.
- Sample(s) JC19295-1MS, JC19295-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 1-Methylnaphthalene, Acetophenone, Benzaldehyde are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1-Methylnaphthalene, Acetophenone, Benzaldehyde are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Chlorophenol, 2-Methylphenol, 3&4-Methylphenol, 4-Chloro-3-methyl phenol, Phenol are outside control limits for sample OP93555-MSD. Analytical precision exceeds in-house control limits.

Matrix: SO **Batch ID:** OP93597

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC19414-1MS, JC19414-1MSD were used as the QC samples indicated.
- 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:** OP93555A

- All samples were extracted within the recommended method holding time.
- Sample(s) JC19332-3MS, JC19332-3MSD 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.
- Sample(s) JC19423-1MS, JC19423-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- 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.
- JC19473-1: Analysis performed at Accutest Laboratories, Orlando FL.
- JC19473-2A: 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.
- JC19473-3: 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: OP93571

- All samples were extracted within the recommended method holding time.
- Sample(s) JC19409-1MS, JC19409-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Endrin aldehyde are outside the QC limits.
- Matrix Spike Duplicate Recovery(s) for Endrin aldehyde are outside the QC limits.
- OP93571-MSD for Decachlorobiphenyl: Outside the QC limits.

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 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: GN45335

- 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:** JC19473

Site: AMANYWP: BMSMC, Building 5 Area, PR **Report Date** 5/10/2016 10:27:50 AM

3 Samples were collected on 05/02/2016 and were received at SGS Accutest Southeast (SASE) on 05/04/2016 properly preserved, at 3.4 Deg. C and intact. These Samples received an SASE job number of JC19473. 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.

Sample(s) JC19473-3 has surrogates outside control limits. Probable cause is due to matrix interference.

JC19473-3 for Hexanol: Outside control limits; however, sample is ND.

JC19473-3: 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: JC19473
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 04/30/16 thru 05/02/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC19473-1	**BPEB-10**					
No hits reported in this sample.						
JC19473-2	**RA-18 GWS**					
1,4-Dioxane		2.62	0.11	0.054	ug/l	SW846 8270D BY SIM
JC19473-2A	**RA-18 GWS**					
No hits reported in this sample.						
JC19473-3	**RA-18 (12.5-13.5)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-10		
Lab Sample ID:	JC19473-1	**Date Sampled:**	04/30/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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	F156757.D	1	05/03/16	LK	05/03/16	OP93555	EF6600
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.91	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	0.99	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	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	5.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.99	ug/l	
	3&4-Methylphenol	ND	2.2	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol	ND	5.6	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.44	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	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	0.50	ug/l	
100-52-7	Benzaldehyde	ND	5.6	0.32	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.23	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.45	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.51	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.24	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.38	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:	BPEB-10		
Lab Sample ID:	JC19473-1	**Date Sampled:**	04/30/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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	0.72	ug/l	
218-01-9	Chrysene	ND	1.1	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.28	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.41	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.61	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.53	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.37	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.55	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.26	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.29	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	0.19	ug/l	
86-73-7	Fluorene	ND	1.1	0.19	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.55	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.1	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.37	ug/l	
78-59-1	Isophorone	ND	2.2	0.31	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	5.6	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.43	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.49	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.71	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.53	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.25	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	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		14-88%
4165-62-2	Phenol-d5	42%		10-110%

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:	BPEB-10		
Lab Sample ID:	JC19473-1	**Date Sampled:**	04/30/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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
118-79-6	2,4,6-Tribromophenol	114%		39-149%
4165-60-0	Nitrobenzene-d5	115%		32-128%
321-60-8	2-Fluorobiphenyl	97%		35-119%
1718-51-0	Terphenyl-d14	104%		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:	BPEB-10		
Lab Sample ID:	JC19473-1	**Date Sampled:**	04/30/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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	3M61049.D	1	05/04/16	LK	05/03/16	OP93555A	E3M2870
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.033	ug/l	
123-91-1	1,4-Dioxane	ND	0.11	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	92%		24-125%
321-60-8	2-Fluorobiphenyl	105%		19-127%
1718-51-0	Terphenyl-d14	115%		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:	BPEB-10		
Lab Sample ID:	JC19473-1	**Date Sampled:**	04/30/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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]	XY064114.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	91%		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

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-10		
Lab Sample ID:	JC19473-1	**Date Sampled:**	04/30/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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	6G34643.D	1	05/03/16	DS	05/03/16	OP93571	G6G1001
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	57%		26-132%
877-09-8	Tetrachloro-m-xylene	58%		26-132%
2051-24-3	Decachlorobiphenyl	54%		10-118%
2051-24-3	Decachlorobiphenyl	50%		10-118%

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:	RA-18 GWS		
Lab Sample ID:	JC19473-2	**Date Sampled:**	05/02/16
Matrix:	AQ - Ground Water	**Date Received:**	05/03/16
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	F156758.D	1	05/03/16	LK	05/03/16	OP93555	EF6600
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.91	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	0.99	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	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	5.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.99	ug/l	
	3&4-Methylphenol	ND	2.2	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol	ND	5.6	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.44	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	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	0.50	ug/l	
100-52-7	Benzaldehyde	ND	5.6	0.32	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.23	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.45	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.51	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.24	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.38	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
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Report of Analysis

Client Sample ID:	RA-18 GWS		
Lab Sample ID:	JC19473-2	**Date Sampled:**	05/02/16
Matrix:	AQ - Ground Water	**Date Received:**	05/03/16
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	0.72	ug/l	
218-01-9	Chrysene	ND	1.1	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.28	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.41	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.61	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.53	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.37	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.55	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.26	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.29	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	0.19	ug/l	
86-73-7	Fluorene	ND	1.1	0.19	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.55	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.1	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.37	ug/l	
78-59-1	Isophorone	ND	2.2	0.31	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	5.6	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.43	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.49	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.71	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.53	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.25	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	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		14-88%
4165-62-2	Phenol-d5	39%		10-110%

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:	RA-18 GWS		
Lab Sample ID:	JC19473-2	**Date Sampled:**	05/02/16
Matrix:	AQ - Ground Water	**Date Received:**	05/03/16
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
118-79-6	2,4,6-Tribromophenol	113%		39-149%
4165-60-0	Nitrobenzene-d5	111%		32-128%
321-60-8	2-Fluorobiphenyl	97%		35-119%
1718-51-0	Terphenyl-d14	93%		10-126%

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:	RA-18 GWS		
Lab Sample ID:	JC19473-2	**Date Sampled:**	05/02/16
Matrix:	AQ - Ground Water	**Date Received:**	05/03/16
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	3M61048.D	1	05/04/16	LK	05/03/16	OP93555A	E3M2870
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.033	ug/l	
123-91-1	1,4-Dioxane	2.62	0.11	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	88%		24-125%
321-60-8	2-Fluorobiphenyl	100%		19-127%
1718-51-0	Terphenyl-d14	106%		10-119%

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SGS Accutest

Report of Analysis

Client Sample ID:	RA-18 GWS		
Lab Sample ID:	JC19473-2	**Date Sampled:**	05/02/16
Matrix:	AQ - Ground Water	**Date Received:**	05/03/16
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	6G34644.D	1	05/03/16	DS	05/03/16	OP93571	G6G1001
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0071	0.0043	ug/l	
319-84-6	alpha-BHC	ND	0.0071	0.0043	ug/l	
319-85-7	beta-BHC	ND	0.0071	0.0041	ug/l	
319-86-8	delta-BHC	ND	0.0071	0.0033	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0071	0.0020	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0071	0.0033	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0071	0.0033	ug/l	
60-57-1	Dieldrin	ND	0.0071	0.0026	ug/l	
72-54-8	4,4'-DDD	ND	0.0071	0.0027	ug/l	
72-55-9	4,4'-DDE	ND	0.0071	0.0044	ug/l	
50-29-3	4,4'-DDT	ND	0.0071	0.0035	ug/l	
72-20-8	Endrin	ND	0.0071	0.0036	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0071	0.0038	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0071	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.0071	0.0036	ug/l	
959-98-8	Endosulfan-I	ND	0.0071	0.0035	ug/l	
33213-65-9	Endosulfan-II	ND	0.0071	0.0031	ug/l	
76-44-8	Heptachlor	ND	0.0071	0.0027	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0071	0.0047	ug/l	
72-43-5	Methoxychlor	ND	0.014	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.18	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		26-132%
877-09-8	Tetrachloro-m-xylene	78%		26-132%
2051-24-3	Decachlorobiphenyl	103%		10-118%
2051-24-3	Decachlorobiphenyl	84%		10-118%

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SGS Accutest

Report of Analysis

Client Sample ID:	RA-18 GWS		
Lab Sample ID:	JC19473-2A	**Date Sampled:**	05/02/16
Matrix:	AQ - Ground Water	**Date Received:**	05/03/16
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]	XY064115.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	98%		73-123%

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

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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SGS Accutest

Report of Analysis

Client Sample ID:	RA-18 (12.5-13.5)		
Lab Sample ID:	JC19473-3	**Date Sampled:**	05/02/16
Matrix:	SO - Soil	**Date Received:**	05/03/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	76.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E83106.D	1	05/11/16	AN	05/04/16	OP93597	E3E3643
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	86	30	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	42	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	100	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	220	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	220	63	ug/kg	
95-48-7	2-Methylphenol	ND	86	49	ug/kg	
	3&4-Methylphenol	ND	86	49	ug/kg	
88-75-5	2-Nitrophenol	ND	220	37	ug/kg	
100-02-7	4-Nitrophenol	ND	430	120	ug/kg	
87-86-5	Pentachlorophenol	ND	220	37	ug/kg	
108-95-2	Phenol	ND	86	34	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	220	56	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	62	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	47	ug/kg	
83-32-9	Acenaphthene	ND	43	8.1	ug/kg	
208-96-8	Acenaphthylene	ND	43	5.9	ug/kg	
98-86-2	Acetophenone	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	43	19	ug/kg	
1912-24-9	Atrazine	ND	86	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	43	6.6	ug/kg	
50-32-8	Benzo(a)pyrene	ND	43	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	43	9.0	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	43	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	43	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	86	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	86	25	ug/kg	
92-52-4	1,1'-Biphenyl	ND	86	12	ug/kg	
100-52-7	Benzaldehyde	ND	220	10	ug/kg	
91-58-7	2-Chloronaphthalene	ND	86	8.1	ug/kg	
106-47-8	4-Chloroaniline	ND	220	12	ug/kg	
86-74-8	Carbazole	ND	86	8.4	ug/kg	

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:	RA-18 (12.5-13.5)		
Lab Sample ID:	JC19473-3	**Date Sampled:**	05/02/16
Matrix:	SO - Soil	**Date Received:**	05/03/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	76.1
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	86	31	ug/kg	
218-01-9	Chrysene	ND	43	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	86	9.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	86	25	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	86	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	86	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	43	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	43	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	86	58	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	43	16	ug/kg	
132-64-9	Dibenzofuran	ND	86	7.8	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	86	27	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	86	28	ug/kg	
84-66-2	Diethyl phthalate	ND	86	9.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	86	8.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	86	9.4	ug/kg	
206-44-0	Fluoranthene	ND	43	20	ug/kg	
86-73-7	Fluorene	ND	43	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	86	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	43	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	430	26	ug/kg	
67-72-1	Hexachloroethane	ND	220	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	43	14	ug/kg	
78-59-1	Isophorone	ND	86	9.6	ug/kg	
90-12-0	1-Methylnaphthalene	ND	86	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	86	35	ug/kg	
88-74-4	2-Nitroaniline	ND	220	31	ug/kg	
99-09-2	3-Nitroaniline	ND	220	15	ug/kg	
100-01-6	4-Nitroaniline	ND	220	17	ug/kg	
98-95-3	Nitrobenzene	ND	86	19	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	86	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	25	ug/kg	
85-01-8	Phenanthrene	ND	43	10	ug/kg	
129-00-0	Pyrene	ND	43	7.5	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	220	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		30-106%
4165-62-2	Phenol-d5	47%		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:	RA-18 (12.5-13.5)		
Lab Sample ID:	JC19473-3	**Date Sampled:**	05/02/16
Matrix:	SO - Soil	**Date Received:**	05/03/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	76.1
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	54%		24-140%
4165-60-0	Nitrobenzene-d5	50%		26-122%
321-60-8	2-Fluorobiphenyl	59%		36-112%
1718-51-0	Terphenyl-d14	61%		36-132%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA-18 (12.5-13.5)		
Lab Sample ID:	JC19473-3	**Date Sampled:**	05/02/16
Matrix:	SO - Soil	**Date Received:**	05/03/16
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	76.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M61096.D	1	05/05/16	LK	05/04/16	OP93597A	E3M2872
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	4.3	0.87	ug/kg	
91-20-3	Naphthalene	ND	4.3	0.53	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		15-138%
321-60-8	2-Fluorobiphenyl	69%		12-148%
1718-51-0	Terphenyl-d14	74%		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:	RA-18 (12.5-13.5)		
Lab Sample ID:	JC19473-3	**Date Sampled:**	05/02/16
Matrix:	SO - Soil	**Date Received:**	05/03/16
Method:	SW846 8015C MOD	**Percent Solids:**	76.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	XY064123.D	1	05/06/16	AFL	n/a	n/a	F:GXY2775
Run #2							

	Initial Weight	Final Volume
Run #1	4.77 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	130% [b]		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.
(b) Outside control limits; however, sample is ND.

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:	RA-18 (12.5-13.5)		
Lab Sample ID:	JC19473-3	**Date Sampled:**	05/02/16
Matrix:	SO - Soil	**Date Received:**	05/03/16
Method:	SW846 8081B SW846 3546	**Percent Solids:**	76.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G68007.D	1	05/06/16	BP	05/06/16	OP93683	G4G1782
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.86	0.77	ug/kg	
319-84-6	alpha-BHC	ND	0.86	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.86	0.53	ug/kg	
319-86-8	delta-BHC	ND	0.86	0.34	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.86	0.39	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.86	0.46	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.86	0.65	ug/kg	
60-57-1	Dieldrin	ND	0.86	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	0.86	0.32	ug/kg	
72-55-9	4,4'-DDE	ND	0.86	0.29	ug/kg	
50-29-3	4,4'-DDT	ND	0.86	0.33	ug/kg	
72-20-8	Endrin	ND	0.86	0.30	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.86	0.49	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.86	0.64	ug/kg	
959-98-8	Endosulfan-I	ND	0.86	0.28	ug/kg	
33213-65-9	Endosulfan-II	ND	0.86	0.81	ug/kg	
76-44-8	Heptachlor	ND	0.86	0.71	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.86	0.35	ug/kg	
72-43-5	Methoxychlor	ND	1.7	0.48	ug/kg	
53494-70-5	Endrin ketone	ND	0.86	0.45	ug/kg	
8001-35-2	Toxaphene	ND	21	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	110%		24-136%
877-09-8	Tetrachloro-m-xylene	107%		24-136%
2051-24-3	Decachlorobiphenyl	139%		10-153%
2051-24-3	Decachlorobiphenyl	108%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

GW
WEB
SO - Foreign

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 SUB

801219536121

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # JC19473

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)

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	BPEB-10	☆	4/30/16	1200	TT	EB	7	3				4				X	X	X	X	E23
2	RA-18 GWS	↓	5/2/16	1130	TT	GW	7	3				4				X	X	X	X	V1198
3	RA-18 (12.5-13.5)		5/2/16	1300	TT	SO	2					2				X	X	X	X	ES2
																				SUB

INITIAL ASESSMENT JAO
LABEL VERIFICATION

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

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

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

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] 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

☆ Need 2x 30mL NP for PEST on 5/3/16

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 [signature]	5/2/16 1500	1 Fed EX	2 FedEx	5/3/16 0930	2 DIL
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 # 606 [x] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [x] Cooler Temp. 3.2°C IR

JC19473: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: JC19473 **Client:** _____ **Project:** _____

Date / Time Received: 5/3/2016 9:30:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

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

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

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

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

Comments

JC19473: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC19473

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC19473-1	Collected: 30-APR-16 12:00 By: TT		Received: 03-MAY-16 By: DDH			
BPEB-10						
JC19473-1	SW846 8081B	03-MAY-16 19:16	DS	03-MAY-16	YB	P8081PESTTCL
JC19473-1	SW846 8270D	03-MAY-16 19:48	LK	03-MAY-16	YB	AB8270SL
JC19473-1	SW846 8270D BY SIM	04-MAY-16 11:32	LK	03-MAY-16	YB	B8270SIM14DIOX,BSIM+NAP
JC19473-1	SW846 8015C	05-MAY-16 11:30	AFL			D8015LMA
JC19473-2	Collected: 02-MAY-16 11:30 By: TT		Received: 03-MAY-16 By: DDH			
RA-18 GWS						
JC19473-2	SW846 8081B	03-MAY-16 19:33	DS	03-MAY-16	YB	P8081PESTTCL
JC19473-2	SW846 8270D	03-MAY-16 20:17	LK	03-MAY-16	YB	AB8270SL
JC19473-2	SW846 8270D BY SIM	04-MAY-16 11:00	LK	03-MAY-16	YB	B8270SIM14DIOX,BSIM+NAP
JC19473-3	Collected: 02-MAY-16 13:00 By: TT		Received: 03-MAY-16 By: DDH			
RA-18 (12.5-13.5)						
JC19473-3	SW846 8270D BY SIM	05-MAY-16 15:05	LK	04-MAY-16	AQ	B8270SIM14DIOX,BSIM+NAP
JC19473-3	SM2540 G-97	05-MAY-16 17:00	SP			SOL104
JC19473-3	SW846 8015C MOD	06-MAY-16 09:24	AFL			D8015LMA
JC19473-3	SW846 8081B	06-MAY-16 23:32	BP	06-MAY-16	MA	P8081PESTTCL
JC19473-3	SW846 8270D	11-MAY-16 19:01	AN	04-MAY-16	AQ	AB8270SL
JC19473-2A	Collected: 02-MAY-16 11:30 By: TT		Received: 03-MAY-16 By: DDH			
RA-18 GWS						
JC19473-2A	SW846 8015C	05-MAY-16 11:51	AFL			D8015LMA

SGS Accutest Internal Chain of Custody

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/03/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19473-1.2	Secured Storage	Yaw Britwum	05/03/16 11:35	Retrieve from Storage
JC19473-1.2	Yaw Britwum		05/03/16 13:00	Depleted
JC19473-1.2.1	Yaw Britwum	Organics Prep	05/03/16 11:35	Extract from JC19473-1.2
JC19473-1.2.1	Organics Prep	Yaw Britwum	05/03/16 13:06	Extract from JC19473-1.2
JC19473-1.2.1	Yaw Britwum	Extract Storage	05/03/16 13:06	Return to Storage
JC19473-1.2.1	Extract Storage	Dhara Saparia	05/03/16 17:46	Retrieve from Storage
JC19473-1.2.1	Dhara Saparia	GC6G	05/03/16 17:46	Load on Instrument
JC19473-1.2.1	GC6G	Brittany Piercy	05/04/16 09:35	Unload from Instrument
JC19473-1.2.1	Brittany Piercy	Extract Freezer	05/04/16 09:35	Return to Storage
JC19473-1.3	Secured Storage	Yaw Britwum	05/03/16 11:35	Retrieve from Storage
JC19473-1.3	Yaw Britwum		05/03/16 13:00	Depleted
JC19473-1.3.1	Yaw Britwum	Organics Prep	05/03/16 11:35	Extract from JC19473-1.3
JC19473-1.3.1	Organics Prep	Yaw Britwum	05/03/16 13:06	Extract from JC19473-1.3
JC19473-1.3.1	Yaw Britwum	Extract Storage	05/03/16 13:06	Return to Storage
JC19473-1.3.1	Extract Storage	Dhara Saparia	05/03/16 17:46	Retrieve from Storage
JC19473-1.3.1	Dhara Saparia	GC6G	05/03/16 17:46	Load on Instrument
JC19473-1.3.1	GC6G	Brittany Piercy	05/04/16 09:35	Unload from Instrument
JC19473-1.3.1	Brittany Piercy	Extract Freezer	05/04/16 09:35	Return to Storage
JC19473-1.3.2	Yaw Britwum	Organics Prep	05/03/16 11:37	Extract from JC19473-1.3
JC19473-1.3.2	Organics Prep	Yaw Britwum	05/03/16 13:25	Extract from JC19473-1.3
JC19473-1.3.2	Yaw Britwum	Extract Storage	05/03/16 13:25	Return to Storage
JC19473-1.3.2	Extract Storage	Linsey Kirschmann	05/04/16 10:48	Retrieve from Storage
JC19473-1.3.2	Linsey Kirschmann	GCMS3M	05/04/16 10:49	Load on Instrument
JC19473-1.3.2	GCMS3M	Linsey Kirschmann	05/06/16 12:45	Unload from Instrument
JC19473-1.3.2	Linsey Kirschmann	Extract Freezer	05/06/16 12:45	Return to Storage
JC19473-1.5	Secured Storage	Oleg Berenzon	05/03/16 15:18	Retrieve from Storage
JC19473-1.5	Oleg Berenzon		05/03/16 15:19	Subcontract
JC19473-1.6	Secured Storage	Oleg Berenzon	05/03/16 15:18	Retrieve from Storage
JC19473-1.6	Oleg Berenzon		05/03/16 15:19	Subcontract
JC19473-2.1	Secured Storage	Yaw Britwum	05/03/16 11:35	Retrieve from Storage
JC19473-2.1	Yaw Britwum		05/03/16 13:00	Depleted
JC19473-2.1.1	Yaw Britwum	Organics Prep	05/03/16 11:42	Extract from JC19473-2.1
JC19473-2.1.1	Organics Prep	Yaw Britwum	05/03/16 13:06	Extract from JC19473-2.1
JC19473-2.1.1	Yaw Britwum	Extract Storage	05/03/16 13:06	Return to Storage
JC19473-2.1.1	Extract Storage	Dhara Saparia	05/03/16 17:46	Retrieve from Storage
JC19473-2.1.1	Dhara Saparia	GC6G	05/03/16 17:46	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/03/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19473-2.1.1	GC6G	Brittany Piercy	05/04/16 09:35	Unload from Instrument
JC19473-2.1.1	Brittany Piercy	Extract Freezer	05/04/16 09:35	Return to Storage
JC19473-2.3	Secured Storage	Yaw Britwum	05/03/16 11:35	Retrieve from Storage
JC19473-2.3	Yaw Britwum		05/03/16 13:00	Depleted
JC19473-2.3.1	Yaw Britwum	Organics Prep	05/03/16 11:37	Extract from JC19473-2.3
JC19473-2.3.1	Organics Prep	Yaw Britwum	05/03/16 13:25	Extract from JC19473-2.3
JC19473-2.3.1	Yaw Britwum	Extract Storage	05/03/16 13:25	Return to Storage
JC19473-2.3.1	Extract Storage	Linsey Kirschmann	05/04/16 10:48	Retrieve from Storage
JC19473-2.3.1	Linsey Kirschmann	GCMS3M	05/04/16 10:49	Load on Instrument
JC19473-2.3.1	GCMS3M	Linsey Kirschmann	05/06/16 12:45	Unload from Instrument
JC19473-2.3.1	Linsey Kirschmann	Extract Freezer	05/06/16 12:45	Return to Storage
JC19473-2.5	Secured Storage	Oleg Berenzon	05/03/16 15:18	Retrieve from Storage
JC19473-2.5	Oleg Berenzon		05/03/16 15:19	Subcontract
JC19473-2.6	Secured Storage	Oleg Berenzon	05/03/16 15:18	Retrieve from Storage
JC19473-2.6	Oleg Berenzon		05/03/16 15:19	Subcontract
JC19473-3.1	Secured Storage	Todd Shoemaker	05/03/16 15:13	Retrieve from Storage
JC19473-3.1	Todd Shoemaker	Secured Staging Area	05/03/16 15:13	Return to Storage
JC19473-3.1	Secured Staging Area	Todd Shoemaker	05/03/16 16:41	Retrieve from Storage
JC19473-3.1	Todd Shoemaker	Secured Storage	05/03/16 16:41	Return to Storage
JC19473-3.1	Edwin Gonzalez	Secured Storage	05/03/16 17:45	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC19473-3.1	Secured Storage	Shanice Grant	05/04/16 04:24	Retrieve from Storage
JC19473-3.1	Shanice Grant	Steven Zarchy	05/04/16 07:34	Custody Transfer
JC19473-3.1	Steven Zarchy	Secured Storage	05/04/16 09:28	Return to Storage
JC19473-3.1	Secured Storage	Alfredo Crespo	05/05/16 10:18	Retrieve from Storage
JC19473-3.1	Alfredo Crespo	Secured Staging Area	05/05/16 10:18	Return to Storage
JC19473-3.1	Secured Staging Area	Smit Patel	05/05/16 11:44	Retrieve from Storage
JC19473-3.1	Smit Patel	Secured Storage	05/05/16 11:44	Return to Storage
JC19473-3.1	Secured Storage	Eric Chiles	05/06/16 06:22	Retrieve from Storage
JC19473-3.1	Eric Chiles	Sauvelson Auguste	05/06/16 07:14	Custody Transfer
JC19473-3.1	Sauvelson Auguste	Secured Storage	05/06/16 10:00	Return to Storage
JC19473-3.1.1	Shanice Grant	Organics Prep	05/04/16 04:24	Extract from JC19473-3.1
JC19473-3.1.1	Organics Prep	Shanice Grant	05/04/16 10:05	Extract from JC19473-3.1
JC19473-3.1.1	Shanice Grant	Extract Storage	05/04/16 10:05	Return to Storage
JC19473-3.1.1	Extract Storage	Dhara Saparia	05/04/16 17:08	Retrieve from Storage
JC19473-3.1.1	Dhara Saparia	GC1G	05/04/16 17:08	Load on Instrument
JC19473-3.1.2	Steven Zarchy	Organics Prep	05/04/16 07:39	Extract from JC19473-3.1

SGS Accutest Internal Chain of Custody

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/03/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19473-3.1.2	Organics Prep	Albert Quayson	05/04/16 17:05	Extract from JC19473-3.1
JC19473-3.1.2	Albert Quayson	Extract Storage	05/04/16 17:05	Return to Storage
JC19473-3.1.2	Extract Storage	Ashley Noble	05/11/16 11:07	Retrieve from Storage
JC19473-3.1.2	Ashley Noble	GCMS3E	05/11/16 11:07	Load on Instrument
JC19473-3.1.2	GCMS3E	Ashley Noble	05/13/16 11:41	Unload from Instrument
JC19473-3.1.2	Ashley Noble	Extract Freezer	05/13/16 11:41	Return to Storage
JC19473-3.1.3	Eric Chiles	Organics Prep	05/06/16 06:22	Extract from JC19473-3.1
JC19473-3.1.3	Organics Prep	Meilly Arbelo	05/06/16 10:41	Extract from JC19473-3.1
JC19473-3.1.3	Meilly Arbelo	Extract Storage	05/06/16 10:41	Return to Storage
JC19473-3.1.3	Extract Storage	Dhara Saparia	05/06/16 16:13	Retrieve from Storage
JC19473-3.1.3	Dhara Saparia	GC4G	05/06/16 16:14	Load on Instrument
JC19473-3.1.3	GC4G	Brittany Piercy	05/09/16 08:05	Unload from Instrument
JC19473-3.1.3	Brittany Piercy	Extract Freezer	05/09/16 08:06	Return to Storage
JC19473-3.2	Secured Storage	Oleg Berenzon	05/03/16 15:18	Retrieve from Storage
JC19473-3.2	Oleg Berenzon		05/03/16 15:19	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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555-MB1	F156755.D	1	05/03/16	LK	05/03/16	OP93555	EF6600

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

JC19473-1, JC19473-2

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555-MB1	F156755.D	1	05/03/16	LK	05/03/16	OP93555	EF6600

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

JC19473-1, JC19473-2

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	
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	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	54%	14-88%

Method Blank Summary

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555-MB1	F156755.D	1	05/03/16	LK	05/03/16	OP93555	EF6600

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

JC19473-1, JC19473-2

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	36%	10-110%
118-79-6	2,4,6-Tribromophenol	113%	39-149%
4165-60-0	Nitrobenzene-d5	112%	32-128%
321-60-8	2-Fluorobiphenyl	95%	35-119%
1718-51-0	Terphenyl-d14	95%	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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555A-MB1	3M61046.D	1	05/04/16	LK	05/03/16	OP93555A	E3M2870

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

JC19473-1, JC19473-2

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	95%	24-125%
321-60-8	2-Fluorobiphenyl	98%	19-127%
1718-51-0	Terphenyl-d14	118%	10-119%

Method Blank Summary

Job Number: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555-BS1	F156756.D	1	05/03/16	LK	05/03/16	OP93555	EF6600

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

JC19473-1, JC19473-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	36.7	73	48-106
59-50-7	4-Chloro-3-methyl phenol	50	37.1	74	49-113
120-83-2	2,4-Dichlorophenol	50	32.3	65	49-111
105-67-9	2,4-Dimethylphenol	50	42.6	85	42-117
51-28-5	2,4-Dinitrophenol	100	83.5	84	37-132
534-52-1	4,6-Dinitro-o-cresol	50	45.2	90	49-119
95-48-7	2-Methylphenol	50	37.3	75	42-103
	3&4-Methylphenol	50	35.7	71	39-110
88-75-5	2-Nitrophenol	50	33.8	68	49-114
100-02-7	4-Nitrophenol	50	29.5	59	16-95
87-86-5	Pentachlorophenol	50	41.9	84	30-136
108-95-2	Phenol	50	21.2	42	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	38.1	76	47-118
95-95-4	2,4,5-Trichlorophenol	50	37.3	75	55-116
88-06-2	2,4,6-Trichlorophenol	50	40.5	81	56-115
83-32-9	Acenaphthene	50	38.5	77	54-112
208-96-8	Acenaphthylene	50	36.9	74	49-99
98-86-2	Acetophenone	50	47.9	96	52-111
120-12-7	Anthracene	50	37.6	75	58-112
1912-24-9	Atrazine	50	43.5	87	62-134
100-52-7	Benzaldehyde	50	42.5	85	40-129
56-55-3	Benzo(a)anthracene	50	37.1	74	44-120
50-32-8	Benzo(a)pyrene	50	36.7	73	41-127
205-99-2	Benzo(b)fluoranthene	50	40.7	81	41-129
191-24-2	Benzo(g,h,i)perylene	50	39.5	79	34-128
207-08-9	Benzo(k)fluoranthene	50	40.7	81	42-122
101-55-3	4-Bromophenyl phenyl ether	50	40.7	81	54-121
85-68-7	Butyl benzyl phthalate	50	37.3	75	20-143
92-52-4	1,1'-Biphenyl	50	38.7	77	51-106
91-58-7	2-Chloronaphthalene	50	37.2	74	48-104
106-47-8	4-Chloroaniline	50	21.1	42	10-110
86-74-8	Carbazole	50	39.6	79	56-110
105-60-2	Caprolactam	50	8.2	16	10-110
218-01-9	Chrysene	50	37.2	74	45-125
111-91-1	bis(2-Chloroethoxy)methane	50	35.6	71	47-117
111-44-4	bis(2-Chloroethyl)ether	50	44.1	88	48-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555-BS1	F156756.D	1	05/03/16	LK	05/03/16	OP93555	EF6600

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

JC19473-1, JC19473-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	36.6	73	44-112
7005-72-3	4-Chlorophenyl phenyl ether	50	39.6	79	50-117
121-14-2	2,4-Dinitrotoluene	50	41.4	83	57-122
606-20-2	2,6-Dinitrotoluene	50	40.8	82	58-122
91-94-1	3,3'-Dichlorobenzidine	100	44.0	44	10-110
53-70-3	Dibenzo(a,h)anthracene	50	42.7	85	36-130
132-64-9	Dibenzofuran	50	38.6	77	55-108
84-74-2	Di-n-butyl phthalate	50	41.0	82	45-123
117-84-0	Di-n-octyl phthalate	50	38.2	76	37-144
84-66-2	Diethyl phthalate	50	40.9	82	23-130
131-11-3	Dimethyl phthalate	50	40.1	80	10-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	37.5	75	36-138
206-44-0	Fluoranthene	50	39.8	80	58-116
86-73-7	Fluorene	50	41.2	82	57-113
118-74-1	Hexachlorobenzene	50	43.6	87	49-122
87-68-3	Hexachlorobutadiene	50	30.3	61	24-112
77-47-4	Hexachlorocyclopentadiene	100	63.3	63	14-119
67-72-1	Hexachloroethane	50	33.9	68	31-107
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.5	79	34-128
78-59-1	Isophorone	50	42.3	85	52-119
90-12-0	1-Methylnaphthalene	50	34.2	68	46-103
91-57-6	2-Methylnaphthalene	50	33.4	67	45-107
88-74-4	2-Nitroaniline	50	51.7	103	51-127
99-09-2	3-Nitroaniline	50	24.7	49	10-110
100-01-6	4-Nitroaniline	50	34.0	68	50-112
98-95-3	Nitrobenzene	50	42.8	86	44-116
621-64-7	N-Nitroso-di-n-propylamine	50	49.7	99	49-117
86-30-6	N-Nitrosodiphenylamine	50	36.1	72	51-113
85-01-8	Phenanthrene	50	39.2	78	56-111
129-00-0	Pyrene	50	37.9	76	47-120
95-94-3	1,2,4,5-Tetrachlorobenzene	50	34.8	70	36-114

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555-BS1	F156756.D	1	05/03/16	LK	05/03/16	OP93555	EF6600

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

JC19473-1, JC19473-2

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	39%	10-110%
118-79-6	2,4,6-Tribromophenol	96%	39-149%
4165-60-0	Nitrobenzene-d5	87%	32-128%
321-60-8	2-Fluorobiphenyl	82%	35-119%
1718-51-0	Terphenyl-d14	84%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555A-BS12	3M61047.D	1	05/04/16	LK	05/03/16	OP93555A	E3M2870

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

JC19473-1, JC19473-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	1.08	108	40-119
123-91-1	1,4-Dioxane	1	0.708	71	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	86%	24-125%
321-60-8	2-Fluorobiphenyl	103%	19-127%
1718-51-0	Terphenyl-d14	113%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19473
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

JC19473-3

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555-MS	F156775.D	1	05/04/16	LK	05/03/16	OP93555	EF6600
OP93555-MSD	F156776.D	1	05/04/16	LK	05/03/16	OP93555	EF6600
JC19295-1	F156766.D	1	05/04/16	LK	05/03/16	OP93555	EF6600
JC19295-1	F156796.D	4	05/04/16	LK	05/03/16	OP93555	EF6601

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

JC19473-1, JC19473-2

CAS No.	Compound	JC19295-1 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	74.1	74	100	95.8	96	26* [a]	49-110/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	74.3	74	100	89.5	90	19* [a]	44-121/18
120-83-2	2,4-Dichlorophenol	ND		100	65.0	65	100	77.0	77	17	42-120/19
105-67-9	2,4-Dimethylphenol	ND		100	87.1	87	100	106	106	20	33-132/23
51-28-5	2,4-Dinitrophenol	ND		200	152	76	200	192	96	23	21-145/26
534-52-1	4,6-Dinitro-o-cresol	ND		100	84.7	85	100	108	108	24	25-134/27
95-48-7	2-Methylphenol	ND		100	82.9	83	100	104	104	23* [a]	47-112/18
	3&4-Methylphenol	ND		100	82.1	82	100	103	103	23* [a]	44-113/19
88-75-5	2-Nitrophenol	ND		100	67.0	67	100	81.1	81	19	45-118/20
100-02-7	4-Nitrophenol	ND		100	83.5	84	100	108	108	26	23-144/28
87-86-5	Pentachlorophenol	ND		100	85.9	86	100	107	107	22	25-151/25
108-95-2	Phenol	ND		100	64.2	64	100	83.1	83	26* [a]	22-100/22
58-90-2	2,3,4,6-Tetrachlorophenol	ND		100	76.8	77	100	93.4	93	20	44-122/21
95-95-4	2,4,5-Trichlorophenol	ND		100	74.0	74	100	92.1	92	22* [a]	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		100	79.7	80	100	99.8	100	22* [a]	53-120/21
83-32-9	Acenaphthene	ND		100	78.0	78	100	94.6	95	19	52-120/23
208-96-8	Acenaphthylene	ND		100	72.8	73	100	89.5	90	21	50-101/22
98-86-2	Acetophenone	ND		100	236	236* [b]	100	279	279* [b]	17	31-141/23
120-12-7	Anthracene	ND		100	73.7	74	100	90.4	90	20	54-117/22
1912-24-9	Atrazine	ND		100	87.0	87	100	103	103	17	42-152/23
100-52-7	Benzaldehyde	ND		100	385	385* [b]	100	435	435* [b]	12	10-164/30
56-55-3	Benzo(a)anthracene	ND		100	76.8	77	100	92.6	93	19	40-123/24
50-32-8	Benzo(a)pyrene	ND		100	75.6	76	100	93.7	94	21	41-127/25
205-99-2	Benzo(b)fluoranthene	ND		100	80.5	81	100	101	101	23	39-127/27
191-24-2	Benzo(g,h,i)perylene	ND		100	78.4	78	100	101	101	25	34-128/28
207-08-9	Benzo(k)fluoranthene	ND		100	81.5	82	100	99.5	100	20	39-122/26
101-55-3	4-Bromophenyl phenyl ether	ND		100	80.2	80	100	96.9	97	19	51-124/23
85-68-7	Butyl benzyl phthalate	ND		100	77.7	78	100	97.0	97	22	21-146/28
92-52-4	1,1'-Biphenyl	ND		100	79.6	80	100	94.6	95	17	27-142/23
91-58-7	2-Chloronaphthalene	ND		100	75.1	75	100	91.9	92	20	51-109/23
106-47-8	4-Chloroaniline	ND		100	30.2	30	100	40.6	41	29	10-110/55
86-74-8	Carbazole	ND		100	76.0	76	100	90.8	91	18	52-116/22
105-60-2	Caprolactam	ND		100	29.3	29	100	35.4	35	19	10-106/34
218-01-9	Chrysene	ND		100	75.0	75	100	92.5	93	21	41-128/24
111-91-1	bis(2-Chloroethoxy)methane	ND		100	76.0	76	100	91.5	92	19	46-120/24
111-44-4	bis(2-Chloroethyl)ether	ND		100	85.2	85	100	107	107	23	42-123/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555-MS	F156775.D	1	05/04/16	LK	05/03/16	OP93555	EF6600
OP93555-MSD	F156776.D	1	05/04/16	LK	05/03/16	OP93555	EF6600
JC19295-1	F156766.D	1	05/04/16	LK	05/03/16	OP93555	EF6600
JC19295-1	F156796.D	4	05/04/16	LK	05/03/16	OP93555	EF6601

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

JC19473-1, JC19473-2

CAS No.	Compound	JC19295-1 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	76.0	76	100	95.8	96	23	41-117/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	80.1	80	100	98.8	99	21	48-121/21
121-14-2	2,4-Dinitrotoluene	ND		100	80.2	80	100	101	101	23	54-123/27
606-20-2	2,6-Dinitrotoluene	ND		100	80.8	81	100	99.7	100	21	55-125/26
91-94-1	3,3'-Dichlorobenzidine	ND		200	111	56	200	143	72	25	10-107/47
53-70-3	Dibenzo(a,h)anthracene	ND		100	81.2	81	100	105	105	26	35-130/27
132-64-9	Dibenzofuran	ND		100	74.3	74	100	91.3	91	21	53-112/22
84-74-2	Di-n-butyl phthalate	ND		100	81.3	81	100	102	102	23	38-129/23
117-84-0	Di-n-octyl phthalate	ND		100	81.2	81	100	99.7	100	20	35-145/26
84-66-2	Diethyl phthalate	ND		100	80.2	80	100	99.7	100	22	16-136/30
131-11-3	Dimethyl phthalate	ND		100	79.7	80	100	97.5	98	20	10-143/39
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	79.2	79	100	98.1	98	21	34-141/28
206-44-0	Fluoranthene	ND		100	77.6	78	100	94.2	94	19	47-123/24
86-73-7	Fluorene	ND		100	80.6	81	100	100	100	21	56-117/22
118-74-1	Hexachlorobenzene	ND		100	84.4	84	100	104	104	21	46-125/24
87-68-3	Hexachlorobutadiene	ND		100	64.3	64	100	77.6	78	19	26-121/24
77-47-4	Hexachlorocyclopentadiene	ND		200	128	64	200	145	73	12	10-133/31
67-72-1	Hexachloroethane	ND		100	70.7	71	100	83.9	84	17	35-111/26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	78.7	79	100	99.3	99	23	32-130/30
78-59-1	Isophorone	ND		100	81.8	82	100	98.2	98	18	47-126/23
90-12-0	1-Methylnaphthalene	ND		100	126	126* [b]	100	141	141* [b]	11	34-124/25
91-57-6	2-Methylnaphthalene	131 [c]		100	193	75	100	216	98	11	34-123/24
88-74-4	2-Nitroaniline	ND		100	101	101	100	120	120	17	46-137/23
99-09-2	3-Nitroaniline	ND		100	35.9	36	100	42.2	42	16	10-110/50
100-01-6	4-Nitroaniline	ND		100	60.3	60	100	74.8	75	21	38-118/25
98-95-3	Nitrobenzene	ND		100	103	103	100	123	123	18	35-130/25
621-64-7	N-Nitroso-di-n-propylamine	ND		100	96.2	96	100	120	120	22	45-123/22
86-30-6	N-Nitrosodiphenylamine	ND		100	73.4	73	100	88.8	89	19	46-123/24
85-01-8	Phenanthrene	ND		100	77.6	78	100	94.5	95	20	48-121/23
129-00-0	Pyrene	ND		100	76.6	77	100	96.6	97	23	43-124/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		100	73.9	74	100	89.9	90	20	25-142/24

CAS No.	Surrogate Recoveries	MS	MSD	JC19295-1	JC19295-1	Limits
367-12-4	2-Fluorophenol	72%	93%* [d]			14-88%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555-MS	F156775.D	1	05/04/16	LK	05/03/16	OP93555	EF6600
OP93555-MSD	F156776.D	1	05/04/16	LK	05/03/16	OP93555	EF6600
JC19295-1	F156766.D	1	05/04/16	LK	05/03/16	OP93555	EF6600
JC19295-1	F156796.D	4	05/04/16	LK	05/03/16	OP93555	EF6601

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

JC19473-1, JC19473-2

CAS No.	Surrogate Recoveries	MS	MSD	JC19295-1	JC19295-1	Limits
4165-62-2	Phenol-d5	63%	79%			10-110%
118-79-6	2,4,6-Tribromophenol	98%	122%			39-149%
4165-60-0	Nitrobenzene-d5	87%	105%	80%	80%	32-128%
321-60-8	2-Fluorobiphenyl	82%	99%	64%	69%	35-119%
1718-51-0	Terphenyl-d14	87%	108%	66%	69%	10-126%

(a) Analytical precision exceeds in-house control limits.
(b) Outside control limits due to matrix interference.
(c) Result is from Run #2.
(d) Outside of in house control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-3

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93555A-MS	3M61055.D	1	05/04/16	LK	05/03/16	OP93555A	E3M2870
OP93555A-MSD	3M61056.D	1	05/04/16	LK	05/03/16	OP93555A	E3M2870
JC19332-3	3M61052.D	1	05/04/16	LK	05/03/16	OP93555A	E3M2870

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

JC19473-1, JC19473-2

CAS No.	Compound	JC19332-3 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	0.944	94	1.01	0.947	94	0	23-140/36
123-91-1	1,4-Dioxane	ND		1	0.587	59	1.01	0.611	60	4	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC19332-3	Limits
4165-60-0	Nitrobenzene-d5	87%	77%	81%	24-125%
321-60-8	2-Fluorobiphenyl	112%	101%	91%	19-127%
1718-51-0	Terphenyl-d14	95%	88%	108%	10-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19473
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

JC19473-3

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: JC19473
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: JC19473
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: JC19473
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: JC19473
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 JC19473)
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)
ZZZZZZ	3E83105.D	05/11/16	18:35	09:30	(unrelated sample)
JC19473-3	3E83106.D	05/11/16	19:01	09:56	RA-18 (12.5-13.5)
ZZZZZZ	3E83107.D	05/11/16	19:28	10:23	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19473
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: JC19473
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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2870-DFTPP
Lab File ID: 3M61044.D
Instrument ID: GCMS3M
Injection Date: 05/04/16
Injection Time: 09:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	186724	38.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	241511	49.5		Pass
70	Less than 2.0% of mass 69	1105	0.23	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	243181	49.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	487461	100.0		Pass
199	5.0 - 9.0% of mass 198	33143	6.80		Pass
275	10.0 - 30.0% of mass 198	107275	22.0		Pass
365	1.0 - 100.0% of mass 198	10679	2.19		Pass
441	Present, but less than mass 443	52316	10.7	(85.2) [b]	Pass
442	40.0 - 100.0% of mass 198	319429	65.5		Pass
443	17.0 - 23.0% of mass 442	61400	12.6	(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
E3M2870-CC2855	3M61045.D	05/04/16	09:22	00:13	Continuing cal 1
OP93555A-MB1	3M61046.D	05/04/16	09:55	00:46	Method Blank
OP93555A-BS12	3M61047.D	05/04/16	10:28	01:19	Blank Spike
JC19473-2	3M61048.D	05/04/16	11:00	01:51	RA-18 GWS
JC19473-1	3M61049.D	05/04/16	11:32	02:23	BPEB-10
ZZZZZZ	3M61050.D	05/04/16	12:04	02:55	(unrelated sample)
ZZZZZZ	3M61051.D	05/04/16	12:37	03:28	(unrelated sample)
JC19332-3	3M61052.D	05/04/16	13:09	04:00	(used for QC only; not part of job JC19473)
ZZZZZZ	3M61053.D	05/04/16	13:41	04:32	(unrelated sample)
ZZZZZZ	3M61054.D	05/04/16	14:13	05:04	(unrelated sample)
OP93555A-MS	3M61055.D	05/04/16	14:46	05:37	Matrix Spike
OP93481A-BS12	3M61065.D	05/04/16	15:18	06:09	Blank Spike
OP93555A-MSD	3M61056.D	05/04/16	15:50	06:41	Matrix Spike Duplicate
OP93586A-MB1	3M61057.D	05/04/16	16:23	07:14	Method Blank
OP93586A-BS12	3M61058.D	05/04/16	17:06	07:57	Blank Spike
ZZZZZZ	3M61059.D	05/04/16	17:39	08:30	(unrelated sample)
ZZZZZZ	3M61060.D	05/04/16	18:11	09:02	(unrelated sample)
ZZZZZZ	3M61061.D	05/04/16	18:43	09:34	(unrelated sample)
OP93473A-MS	3M61062.D	05/04/16	20:52	11:43	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JC19473
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
JC19473-3	3M61096.D	05/05/16	15:05	03:11	RA-18 (12.5-13.5)
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: JC19473
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	(used for QC only; not part of job JC19473)
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 JC19473)
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: JC19473
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: JC19473
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: JC19473
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: JC19473
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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6600-DFTPP
Lab File ID: F156751.D
Instrument ID: GCMSF
Injection Date: 05/03/16
Injection Time: 17:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	192733	38.9		Pass
68	Less than 2.0% of mass 69	297	0.06	(0.11) [a]	Pass
69	Mass 69 relative abundance	273620	55.3		Pass
70	Less than 2.0% of mass 69	1091	0.22	(0.40) [a]	Pass
127	40.0 - 60.0% of mass 198	274703	55.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	494826	100.0		Pass
199	5.0 - 9.0% of mass 198	33856	6.84		Pass
275	10.0 - 30.0% of mass 198	108821	22.0		Pass
365	1.0 - 100.0% of mass 198	12291	2.48		Pass
441	Present, but less than mass 443	65613	13.3	(75.1) [b]	Pass
442	40.0 - 100.0% of mass 198	442666	89.5		Pass
443	17.0 - 23.0% of mass 442	87336	17.6	(19.7) [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
EF6600-CC6563	F156752.D	05/03/16	17:22	00:13	Continuing cal 25
EF6600-CC6564	F156753.D	05/03/16	17:51	00:42	Continuing cal 25
OP93555-MB1	F156755.D	05/03/16	18:49	01:40	Method Blank
OP93555-BS1	F156756.D	05/03/16	19:18	02:09	Blank Spike
JC19473-1	F156757.D	05/03/16	19:48	02:39	BPEB-10
JC19473-2	F156758.D	05/03/16	20:17	03:08	RA-18 GWS
ZZZZZZ	F156759.D	05/03/16	20:46	03:37	(unrelated sample)
ZZZZZZ	F156760.D	05/03/16	21:15	04:06	(unrelated sample)
ZZZZZZ	F156761.D	05/03/16	21:44	04:35	(unrelated sample)
ZZZZZZ	F156762.D	05/03/16	22:13	05:04	(unrelated sample)
ZZZZZZ	F156763.D	05/03/16	22:42	05:33	(unrelated sample)
ZZZZZZ	F156764.D	05/03/16	23:11	06:02	(unrelated sample)
ZZZZZZ	F156765.D	05/03/16	23:40	06:31	(unrelated sample)
JC19295-1	F156766.D	05/04/16	00:09	07:00	(used for QC only; not part of job JC19473)
ZZZZZZ	F156767.D	05/04/16	00:37	07:28	(unrelated sample)
ZZZZZZ	F156768.D	05/04/16	01:06	07:57	(unrelated sample)
ZZZZZZ	F156769.D	05/04/16	01:35	08:26	(unrelated sample)
ZZZZZZ	F156770.D	05/04/16	02:04	08:55	(unrelated sample)
ZZZZZZ	F156771.D	05/04/16	02:33	09:24	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6600-DFTPP
Lab File ID: F156751.D
Instrument ID: GCMSF
Injection Date: 05/03/16
Injection Time: 17:09

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F156772.D	05/04/16	03:02	09:53	(unrelated sample)
ZZZZZZ	F156773.D	05/04/16	03:30	10:21	(unrelated sample)
ZZZZZZ	F156774.D	05/04/16	03:59	10:50	(unrelated sample)
OP93555-MS	F156775.D	05/04/16	04:28	11:19	Matrix Spike
OP93555-MSD	F156776.D	05/04/16	04:56	11:47	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC19473
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 JC19473)
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: JC19473
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: JC19473
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: JC19473
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: JC19473
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
ZZZZZZ	116299	4.42	437891	5.46	276650	7.46	460873	9.61	417946	13.78	300789	15.89
JC19473-3	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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2870-CC2855	**Injection Date:**	05/04/16
Lab File ID:	3M61045.D	**Injection Time:**	09:22
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	289001	10.49	482884	13.47	812842	17.69	664567	22.29
Upper Limit [a]	578002	10.99	965768	13.97	1625684	18.19	1329134	22.79
Lower Limit [b]	144501	9.99	241442	12.97	406421	17.19	332284	21.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP93555A-MB1	303598	10.47	474091	13.47	720980	17.69	563710	22.29
OP93555A-BS12	338229	10.49	494139	13.47	787725	17.69	621947	22.29
JC19473-2	341879	10.47	526083	13.47	833978	17.69	658475	22.29
JC19473-1	306429	10.49	456744	13.47	735937	17.68	577883	22.29
ZZZZZZ	531450	10.49	797210	13.49	861914	17.70	700323	22.29
ZZZZZZ	343523	10.49	535686	13.47	796819	17.69	654469	22.29
JC19332-3	318864	10.49	480032	13.47	767873	17.69	619834	22.29
ZZZZZZ	338002	10.49	488640	13.47	821290	17.69	665509	22.29
ZZZZZZ	361752	10.49	570522	13.49	825384	17.69	704196	22.29
OP93555A-MS	341227	10.49	459705	13.49	766610	17.68	604718	22.29
OP93481A-BS12	374942	10.49	506634	13.49	819245	17.69	536080	22.29
OP93555A-MSD	351254	10.49	480659	13.49	784871	17.68	605100	22.29
OP93586A-MB1	290431	10.49	410279	13.49	664233	17.68	568223	22.29
OP93586A-BS12	294531	10.49	401299	13.49	644132	17.68	527407	22.29
ZZZZZZ	284173	10.49	407265	13.47	677817	17.69	523993	22.29
ZZZZZZ	278966	10.49	391893	13.47	631834	17.69	501114	22.29
ZZZZZZ	282436	10.49	403407	13.47	634111	17.69	504494	22.29
OP93473A-MS	346886	10.49	478418	13.47	786110	17.69	575246	22.29

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: JC19473
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
JC19473-3	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: JC19473
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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6600-CC6563	**Injection Date:**	05/03/16
Lab File ID:	F156752.D	**Injection Time:**	17:22
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	738905	4.80	3057349	5.73	1785728	7.18	2832613	9.08	2602458	14.37	2441524	17.42
Upper Limit [a]	1477810	5.30	6114698	6.23	3571456	7.68	5665226	9.58	5204916	14.87	4883048	17.92
Lower Limit [b]	369453	4.30	1528675	5.23	892864	6.68	1416307	8.58	1301229	13.87	1220762	16.92

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
OP93555-MB1	740949	4.80	3039138	5.72	1778958	7.17	2893357	9.08	2607554	14.37	2473129	17.41
OP93555-BS1	798072	4.80	3566874	5.73	1837467	7.18	2922932	9.09	2635530	14.37	2390226	17.42
JC19473-1	690178	4.80	2755801	5.72	1632395	7.17	2632797	9.08	2374625	14.37	2219503	17.41
JC19473-2	729137	4.80	2969375	5.73	1718593	7.17	2853263	9.08	2573905	14.37	2448843	17.41
ZZZZZZ	696454	4.80	2825536	5.72	1678059	7.17	2732976	9.08	2463244	14.37	2300270	17.41
ZZZZZZ	712987	4.80	2867130	5.73	1671181	7.18	2709766	9.08	2439109	14.37	2313401	17.41
ZZZZZZ	687369	4.80	2837561	5.73	1659201	7.17	2675993	9.08	2384620	14.37	2211960	17.41
ZZZZZZ	753694	4.80	3045232	5.73	1796871	7.18	2886079	9.08	2576824	14.37	2409874	17.42
ZZZZZZ	689054	4.80	2805060	5.73	1654148	7.18	2666583	9.08	2388421	14.37	2237890	17.41
ZZZZZZ	669090	4.80	2656908	5.73	1559263	7.18	2509322	9.08	2291292	14.37	2177707	17.41
ZZZZZZ	654059	4.80	2677672	5.73	1571033	7.18	2521889	9.08	2258599	14.37	2123840	17.41
JC19295-1	720647	4.80	2920128	5.73	1732428	7.18	2767259	9.08	2547639	14.37	2414226	17.42
ZZZZZZ	707138	4.80	2950943	5.73	1746556	7.18	2766751	9.08	2509453	14.37	2330283	17.41
ZZZZZZ	638193	4.80	2639610	5.73	1567230	7.18	2503304	9.09	2261147	14.37	2119123	17.41
ZZZZZZ	699030	4.80	2807925	5.73	1647786	7.18	2667379	9.08	2407107	14.37	2253065	17.42
ZZZZZZ	715879	4.80	2898390	5.73	1793955	7.18	2739499	9.09	2485893	14.37	2349560	17.42
ZZZZZZ	683217	4.80	2773458	5.73	1649076	7.18	2586190	9.08	2388387	14.37	2275608	17.42
ZZZZZZ	706371	4.80	2867593	5.73	1705458	7.18	2716888	9.08	2442891	14.37	2292248	17.42
ZZZZZZ	643120	4.80	2675447	5.72	1575440	7.18	2531881	9.08	2321969	14.37	2120035	17.42
ZZZZZZ	689781	4.80	2792070	5.73	1590798	7.18	2506687	9.08	2296834	14.37	2150127	17.42
OP93555-MS	756568	4.80	3345517	5.73	1682014	7.18	2600023	9.09	2180312	14.37	1978689	17.42
OP93555-MSD	751231	4.80	3438088	5.73	1676186	7.18	2641908	9.09	2196539	14.38	1978808	17.42

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: JC19473
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: JC19473
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: JC19473
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
JC19473-1	F156757.D	65	42	114	115	97	104
JC19473-2	F156758.D	60	39	113	111	97	93
OP93555-BS1	F156756.D	55	39	96	87	82	84
OP93555-MB1	F156755.D	54	36	113	112	95	95
OP93555-MS	F156775.D	72	63	98	87	82	87
OP93555-MSD	F156776.D	93* [a]	79	122	105	99	108

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%

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

Semivolatile Surrogate Recovery Summary

Job Number: JC19473
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
JC19473-3	3E83106.D	48	47	54	50	59	61
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: JC19473
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
JC19473-1	3M61049.D	92	105	115
JC19473-2	3M61048.D	88	100	106
OP93555A-BS12	3M61047.D	86	103	113
OP93555A-MB1	3M61046.D	95	98	118
OP93555A-MS	3M61055.D	87	112	95
OP93555A-MSD	3M61056.D	77	101	88

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: JC19473
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
JC19473-3	3M61096.D	57	69	74
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: JC19473
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: JC19473
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: JC19473
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: JC19473
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: JC19473
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: JC19473 **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

```
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: JC19473 **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: JC19473 **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: JC19473 **Sample:** E3E3623-ICV3623
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E82705.D
Project: BMSMC, Building 5 Area, PR

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: JC19473
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: JC19473 **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: JC19473 **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

Initial Calibration Verification

Job Number: JC19473
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: JC19473
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: JC19473 **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: JC19473 **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: JC19473 **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

6.7.13
6

Continuing Calibration Summary

Job Number: JC19473 **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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2855-ICC2855
Lab FileID: 3M60763A.D

```
                        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: JC19473 **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: JC19473
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: JC19473 **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: JC19473
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: JC19473 **Sample:** E3M2870-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61045.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2870\3m61045.D          Vial: 2
Acq On    :  4 May 2016   9:22 am                    Operator: linseyk
Sample    : cc2855-1                                 Inst    : MS3M
Misc      : op93473a,e3m2870                         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	72	-0.13	10.49
2	t	1,4-dioxane	0.207	0.222	-7.2	77	-0.06	2.19
3	S	2-Fluorophenol	0.500	0.548	-9.6	78	-0.11	4.40
4	S	Phenol-d5	0.828	0.890	-7.5	75	-0.09	6.00
5		Phenol	0.893	0.937	-4.9	73	-0.09	6.01
6	t	bis(2-Chloroethyl)ether	0.675	0.677	-0.3	69	-0.08	6.16
7	S	Nitrobenzene-d5	0.770	0.840	-9.1	75	-0.12	7.59
8	t	Nitrobenzene	0.836	0.826	1.2	69	-0.12	7.62
9	t	Naphthalene	2.223	2.424	-9.0	80	-0.14	8.98
10	t	Hexachlorobutadiene	0.387	0.402	-3.9	72	-0.12	9.28
11	t	2-Methylnaphthalene	1.158	1.221	-5.4	73	-0.13	10.36
12	t	1-Methylnaphthalene	1.559	1.401	10.1	72	-0.13	10.55
13		Hexachlorocyclopentadiene	0.308	0.393	-27.6#	80	-0.13	10.69
14	I	Fluorene-d10	1.000	1.000	0.0	77	-0.18	13.47
15	S	2-Fluorobiphenyl	1.099	1.049	4.5	73	-0.16	11.14
16	t	Acenaphthylene	1.385	1.366	1.4	69	-0.16	12.13
17	t	Acenaphthene	0.925	0.925	0.0	72	-0.16	12.49
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	3.990	20.2#	59	-0.16	13.69
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.110	1.160	-4.5	75	-0.16	13.52
20	S	2,4,6-Tribromophenol	0.125	0.123	1.6	72	-0.16	14.01
21	I	Fluoranthene-d10	1.000	1.000	0.0	75	-0.17	17.69
22	t	Hexachlorobenzene	0.189	0.184	2.6	73	-0.19	14.61
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	4.468	10.6	65	-0.17	15.04
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.980	0.951	3.0	72	-0.19	15.43
25	t	Anthracene	0.865	0.864	0.1	69	-0.19	15.54
26	t	Fluoranthene	1.231	1.041	15.4	68	-0.17	17.72
27	t	Pyrene	1.144	1.075	6.0	69	-0.17	18.10
28	S	Terphenyl-d14	0.580	0.597	-2.9	80	-0.16	18.50
29	t	Benzo[a]anthracene	1.097	0.910	17.0	64	-0.18	20.19
30	t	Chrysene	1.051	0.995	5.3	70	-0.18	20.25
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	76	-0.16	22.29

Continuing Calibration Summary

Job Number: JC19473 **Sample:** E3M2870-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61045.D
Project: BMSMC, Building 5 Area, PR

32	t	Benzo[b]fluoranthene	1.331	1.190	10.6	68	-0.16	21.86
33	t	Benzo[k]fluoranthene	1.232	1.181	4.1	73	-0.16	21.90
34	t	Benzo[a]pyrene	1.240	1.044	15.8	65	-0.16	22.30
35	t	Indeno[1,2,3-cd]pyrene	1.260	1.218	3.3	69	-0.18	23.79
36	t	Dibenz[a,h]anthracene	1.039	1.055	-1.5	75	-0.20	23.82
37	t	Benzo[g,h,i]perylene	1.095	1.103	-0.7	74	-0.21	24.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m60763a.D M3M2855SIM.M Wed May 04 12:47:58 2016 RPT1

Continuing Calibration Summary

Job Number: JC19473 **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: JC19473 **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: JC19473 **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: JC19473 **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: JC19473 **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

Initial Calibration Summary

Job Number: JC19473 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

```
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: JC19473 **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: JC19473 **Sample:** EF6564-ICC6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156062.D
Project: BMSMC, Building 5 Area, PR

```
                          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: JC19473 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156069.D
Project: BMSMC, Building 5 Area, PR

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: JC19473 **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: JC19473 **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: JC19473 **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

6.7.26

6

Initial Calibration Verification

Job Number: JC19473
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: JC19473 **Sample:** EF6564-ICV6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156072A.D
Project: BMSMC, Building 5 Area, PR

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: JC19473 **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: JC19473
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: JC19473
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: JC19473 **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: JC19473 **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: JC19473 **Sample:** EF6567-ICV6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156097.D
Project: BMSMC, Building 5 Area, PR

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: JC19473 **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: JC19473
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: JC19473 **Sample:** EF6567-ICV6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156104.D
Project: BMSMC, Building 5 Area, PR

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: JC19473 **Sample:** EF6567-ICV6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156105.D
Project: BMSMC, Building 5 Area, PR

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: JC19473 **Sample:** EF6567-ICV6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156106.D
Project: BMSMC, Building 5 Area, PR

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: JC19473 **Sample:** EF6600-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156752.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6600\F156752.D          Vial: 2
Acq On    :  3 May 2016   5:22 pm                   Operator: linseyk
Sample    : cc6563-25                               Inst    : MSF
Misc      : op93535,ef6600                          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  : Tue May 03 09:37:34 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	86	0.00	4.80
2	t	1,4-Dioxane	0.619	0.575	7.1	88	0.00	2.39
3	t	Pyridine	1.459	1.518	-4.0	87	0.00	2.71
4	t	N-Nitrosodimethylamine	0.525	0.575	-9.5	99	0.00	2.67
5	S	2-Fluorophenol	1.407	1.339	4.8	82	0.01	3.84
6	t	Indene	2.367	2.531	-6.9	91	0.00	4.99
7	t	Cumene	3.180	3.614	-13.6	97	-0.02	4.21
8	S	Phenol-d5	1.711	1.773	-3.6	90	0.01	4.56
9	t	Phenol	1.821	2.084	-14.4	100	-0.01	4.57
10	t	Aniline	1.993	2.093	-5.0	93	-0.01	4.56
11	t	bis(2-Chloroethyl)ether	1.310	1.364	-4.1	91	-0.01	4.61
12	t	2-Chlorophenol	1.485	1.453	2.2	85	0.00	4.66
13	t	Decane	1.278	1.109	13.2	75	-0.02	4.68
14	t	1,3-Dichlorobenzene	1.647	1.604	2.6	83	-0.01	4.76
15	t	1,4-Dichlorobenzene	1.643	1.640	0.2	85	-0.01	4.81
16	t	Benzyl alcohol	0.947	0.949	-0.2	87	0.00	4.90
17	t	1,2-Dichlorobenzene	1.545	1.511	2.2	83	0.00	4.93
18	t	Acetophenone	1.790	2.103	-17.5	100	0.00	5.10
19	t	2-Methylphenol	1.272	1.378	-8.3	93	-0.05	5.00
20	t	2,2'-oxybis(1-Chloropropa	0.472	0.480	-1.7	90	0.00	5.00
21	t	3&4-Methylphenol	1.304	1.464	-12.3	95	0.01	5.11
22		n-Nitroso-di-n-propylamin	0.966	1.202	-24.4#	109	0.00	5.09
23	t	Hexachloroethane	0.509	0.506	0.6	86	0.00	5.17
24	I	Naphthalene-d8	1.000	1.000	0.0	96	0.00	5.73
25	S	Nitrobenzene-d5	0.374	0.414	-10.7	107	-0.01	5.20
26	t	Nitrobenzene	0.391	0.440	-12.5	107	-0.03	5.22
27	t	Quinoline	0.773	0.683	11.6	85	0.00	5.98
28	t	Isophorone	0.668	0.724	-8.4	103	0.00	5.39
29	t	2-Nitrophenol	0.203	0.186	8.4	86	-0.01	5.45
30	t	2,4-Dimethylphenol	0.320	0.344	-7.5	104	-0.02	5.49
31	t	Benzoic acid	0.267	0.285	-6.7	97	0.02	5.57
32	t	bis(2-Chloroethoxy)methan	0.421	0.398	5.5	92	0.00	5.55
33	t	2,4-Dichlorophenol	0.319	0.273	14.4	81	0.12	5.64
34		2,6-Dichlorophenol	0.307	0.277	9.8	86	0.00	5.79
35		1,3,5-Trichlorobenzene	0.336	0.306	8.9	87	0.00	5.46
36	t	1,2,4-Trichlorobenzene	0.330	0.301	8.8	87	0.00	5.68
37		1,2,3-Trichlorobenzene	0.326	0.291	10.7	87	0.00	5.85
38	t	Naphthalene	1.092	1.086	0.5	94	0.00	5.74
39	t	4-Chloroaniline	0.451	0.414	8.2	88	0.00	5.78
40	t	2,3-Dichloroaniline	0.372	0.338	9.1	87	0.13	6.48
41	t	Caprolactam	0.152	0.127	16.4	80	0.11	6.03

Continuing Calibration Summary

Job Number: JC19473 **Sample:** EF6600-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156752.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.156	0.157	-0.6	94	0.00	5.83
43	t	4-Chloro-3-methylphenol	0.313	0.326	-4.2	100	0.00	6.15
44	t	2-Methylnaphthalene	0.616	0.577	6.3	89	0.12	6.25
45	t	1-Methylnaphthalene	0.634	0.598	5.7	90	0.00	6.33
46	t	Dimethylnaphthalene	0.642	0.599	6.7	88	0.00	6.77
47	I	Acenaphthene-d10	1.000	1.000	0.0	95	0.00	7.18
48	t	Hexachlorocyclopentadiene	0.271	0.304	-12.2	99	0.00	6.37
49	t	2,4,6-Trichlorophenol	0.339	0.328	3.2	92	-0.02	6.48
50	t	2,4,5-Trichlorophenol	0.374	0.355	5.1	89	-0.03	6.53
51	S	2-Fluorobiphenyl	1.277	1.196	6.3	88	0.00	6.54
52	t	2-Chloronaphthalene	1.156	1.080	6.6	89	0.00	6.65
53	t	Biphenyl	1.484	1.411	4.9	88	0.00	6.63
54	t	2-Nitroaniline	0.328	0.396	-20.7#	112	0.00	6.74
55	t	Dimethylphthalate	1.293	1.253	3.1	91	0.00	6.90
56	t	Acenaphthylene	1.874	1.796	4.2	89	-0.01	7.03
57	t	2,6-Dinitrotoluene	0.280	0.270	3.6	89	0.00	6.96
58	t	3-Nitroaniline	0.350	0.313	10.6	81	0.00	7.13
59	t	Acenaphthene	1.177	1.125	4.4	89	-0.01	7.21
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	46.667	6.7	91	0.02	7.23
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.164	0.182	-11.0	101	0.03	7.34
62	t	Dibenzofuran	1.606	1.484	7.6	87	0.00	7.39
63	t	2,4-Dinitrotoluene	0.379	0.385	-1.6	91	0.00	7.37
64		2,3,4,6-Tetrachlorophenol	0.282	0.264	6.4	86	0.00	7.53
65	t	Diethylphthalate	1.278	1.288	-0.8	95	-0.01	7.64
66	t	Fluorene	1.236	1.243	-0.6	95	-0.01	7.78
67	t	4-Chlorophenyl-phenylethe	0.545	0.533	2.2	94	-0.01	7.77
68	t	4-Nitroaniline	0.353	0.311	11.9	83	-0.02	7.81
69	I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.01	9.08
70	t	4,6-Dinitro-2-methylpheno	0.126	0.140	-11.1	101	0.00	7.84
71	t	n-Nitrosodiphenylamine	0.572	0.523	8.6	84	0.00	7.92
72	t	1,2-Diphenylhydrazine	0.791	0.945	-19.5	110	0.00	7.98
73	S	2,4,6-Tribromophenol	0.082	0.095	-15.9	107	0.00	8.08
74	t	4-Bromophenyl-phenylether	0.192	0.190	1.0	90	0.00	8.42
75	t	Hexachlorobenzene	0.184	0.195	-6.0	100	-0.01	8.50
76	t	Pentachlorophenol	0.121	0.130	-7.4	91	0.00	8.80
77	t	Phenanthrene	1.151	1.123	2.4	90	-0.01	9.12
78	t	Anthracene	1.152	1.143	0.8	92	-0.01	9.20
79	t	Carbazole	1.080	1.012	6.3	85	0.00	9.48
80	t	Di-n-butylphthalate	1.349	1.364	-1.1	91	0.00	10.18
81	t	Fluoranthene	1.141	1.136	0.4	91	0.00	11.27
82	t	Octadecane	0.468	0.451	3.6	87	-0.01	8.97
83	I	Chrysene-d12	1.000	1.000	0.0	99	0.00	14.37
84	t	Pyrene	1.419	1.298	8.5	90	-0.03	11.72
85	S	Terphenyl-d14	0.812	0.787	3.1	95	-0.02	12.15
86	t	Butylbenzylphthalate	0.697	0.651	6.6	91	-0.01	13.32
87		Butyl stearate	0.378	0.321	15.1	81	-0.01	13.60
88	t	Benzo[a]anthracene	1.212	1.130	6.8	93	0.00	14.35
89	t	3,3'-Dichlorobenzidine	0.422	0.416	1.4	96	0.00	14.39
90	t	Chrysene	1.204	1.155	4.1	95	0.00	14.42
91	t	bis(2-Ethylhexyl)phthalat	0.966	0.911	5.7	90	0.00	14.72
92	I	Perylene-d12	1.000	1.000	0.0	98	0.00	17.42
93	t	Di-n-octylphthalate	1.753	1.668	4.8	88	0.00	16.17

Continuing Calibration Summary

Job Number: JC19473 **Sample:** EF6600-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156752.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[b]fluoranthene	1.236	1.256	-1.6	98	-0.01	16.66
95	t	Benzo[k]fluoranthene	1.210	1.205	0.4	95	0.00	16.72
96	t	Benzo[a]pyrene	1.132	1.104	2.5	94	-0.01	17.29
97	t	Indeno[1,2,3-cd]pyrene	1.044	1.062	-1.7	96	-0.02	19.36
98	t	Dibenz(a,h)acridine	0.897	0.918	-2.3	96	-0.02	18.99
99	t	Dibenz[a,h]anthracene	1.010	1.080	-6.9	101	-0.01	19.41
100	t	7,12-Dimethylbenz(a)anthr	0.483	0.555	-14.9	103	-0.01	16.67
101	t	Benzo[g,h,i]perylene	1.128	1.163	-3.1	98	-0.04	19.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156063A.D MF6563.M Wed May 04 09:30:03 2016 RT1

Continuing Calibration Summary

Job Number: JC19473 **Sample:** EF6600-CC6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156753.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6600\F156753.D          Vial: 3
Acq On    :  3 May 2016   5:51 pm                   Operator: linseyk
Sample    : cc6564-25                               Inst    : MSF
Misc      : op93535,ef6600                          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  : Tue May 03 09:37:34 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	0.00	4.80
103	t	Benzaldehyde	1.126	1.068	5.2	74	0.00	4.48
104	I	Naphthalene-d8b	1.000	1.000	0.0	82	-0.01	5.72
105	t	Hydroquinone	0.326	0.322	1.2	73	-0.02	6.03
106		Acenaphthene-d10b	1.000	1.000	0.0	96	0.00	7.18
107		1,2,4,5-Tetrachlorobenzen	0.557	0.441	20.8#	79	0.00	6.38
108		Phenanthrene-d10b	1.000	1.000	0.0	88	-0.01	9.08
109		Atrazine	0.192	0.192	0.0	88	-0.01	8.68
110		Chrysene-d12b	1.000	1.000	0.0	92	-0.01	14.37
111		Benzidine	0.695	0.596	14.2	71	-0.01	11.62

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156063A.D MF6563.M Wed May 04 09:30:04 2016 RT1

Continuing Calibration Summary

Job Number: JC19473 **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: JC19473 **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: JC19473 **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

Continuing Calibration Summary

Job Number: JC19473 **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: JC19473 **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: JC19473 **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

Initial Calibration Summary

Job Number: JC19473 **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: JC19473 **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: JC19473 **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: JC19473 **Sample:** EZ5486-ICC5486
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z109757.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 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: JC19473 **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: JC19473 **Sample:** EZ5486-ICV5485
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z109759.D
Project: BMSMC, Building 5 Area, PR

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: JC19473 **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: JC19473 **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: JC19473 **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

6.7.48

6

Initial Calibration Verification

Job Number: JC19473
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: JC19473 **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: JC19473
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: JC19473
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: JC19473
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: JC19473 **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: JC19473 **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: JC19473 **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: JC19473 **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 File : C:\MSDCHEM\1\DATA\EF6600\F156757.D Vial: 7
Acq On : 3 May 2016 7:48 pm Operator: seanb1
Sample : jc19473-1 Inst : MSF
Misc : op93555,ef6600,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 03 20:10:03 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 May 03 09:37:34 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	690178	40.00	ppm	0.00
24) Naphthalene-d8	5.72	136	2755801	40.00	ppm	-0.01
47) Acenaphthene-d10	7.17	164	1632395	40.00	ppm	-0.01
69) Phenanthrene-d10	9.08	188	2632797	40.00	ppm	-0.01
83) Chrysene-d12	14.37	240	2374625	40.00	ppm	-0.01
92) Perylene-d12	17.41	264	2219503	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.80	152	690178	40.00	ppm	0.00
104) Naphthalene-d8b	5.72	136	2755801	40.00	ppm	-0.01
106) Acenaphthene-d10b	7.17	164	1632395	40.00	ppm	-0.01
108) Phenanthrene-d10b	9.08	188	2632797	40.00	ppm	-0.01
110) Chrysene-d12b	14.37	240	2374625	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.84	112	788481	32.49	ppm	0.00
Spiked Amount 50.000			Recovery = 64.98%			
8) Phenol-d5	4.56	99	625365	21.19	ppm	0.01
Spiked Amount 50.000			Recovery = 42.38%			
25) Nitrobenzene-d5	5.20	82	1481339	57.56	ppm	-0.01
Spiked Amount 50.000			Recovery = 115.12%			
51) 2-Fluorobiphenyl	6.54	172	2517909	48.33	ppm	0.00
Spiked Amount 50.000			Recovery = 96.66%			
73) 2,4,6-Tribromophenol	8.08	330	306595	57.07	ppm	0.00
Spiked Amount 50.000			Recovery = 114.14%			
85) Terphenyl-d14	12.15	244	2507806	52.00	ppm	-0.02
Spiked Amount 50.000			Recovery = 104.00%			

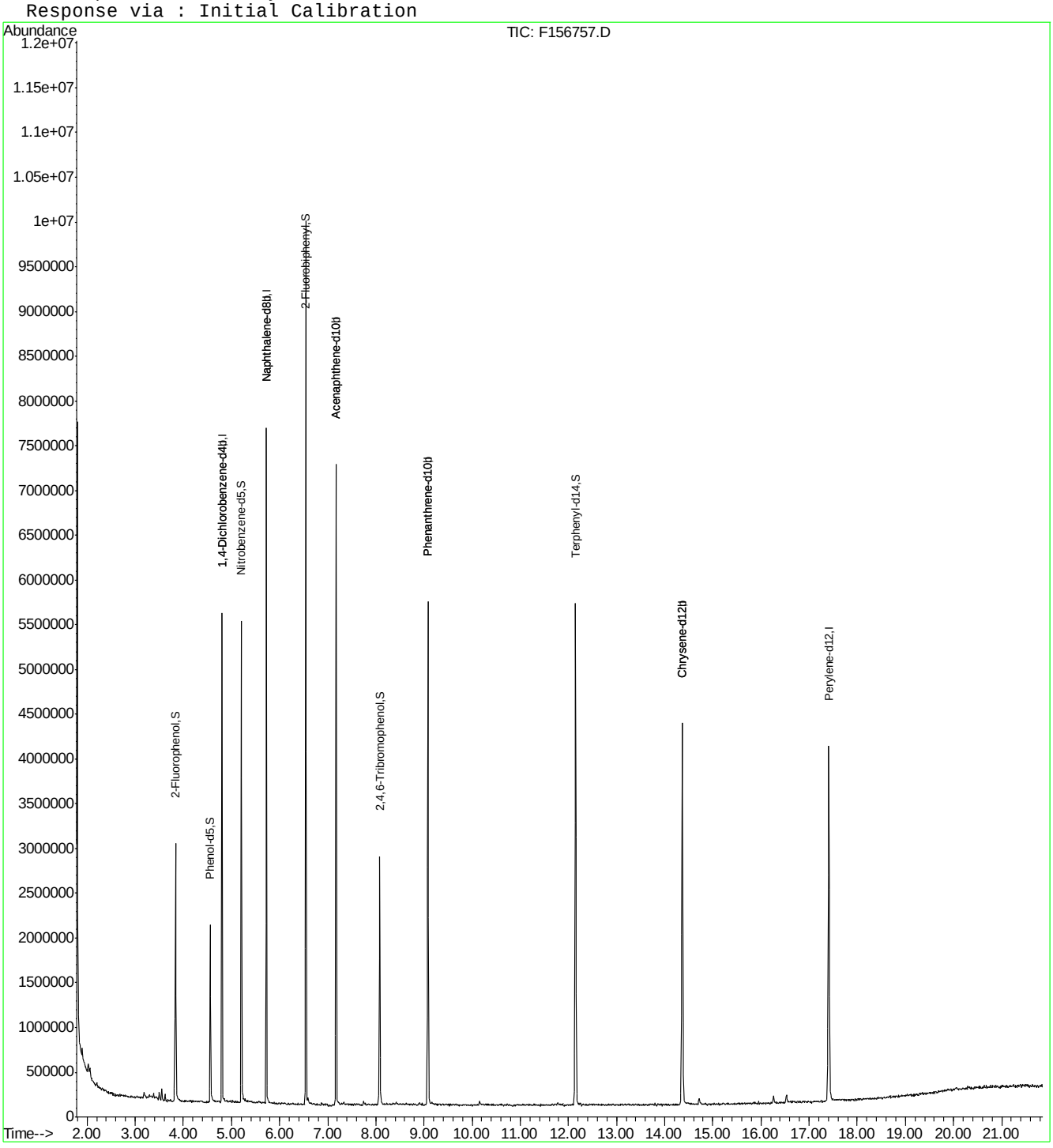
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156757.D Vial: 7
Acq On : 3 May 2016 7:48 pm Operator: seanb1
Sample : jc19473-1 Inst : MSF
Misc : op93555,ef6600,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 9:35 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 May 04 09:33:04 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156758.D Vial: 8
Acq On : 3 May 2016 8:17 pm Operator: seanb1
Sample : jc19473-2 Inst : MSF
Misc : op93555,ef6600,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 03 20:39:04 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 May 03 09:37:34 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	729137	40.00	ppm	0.00
24) Naphthalene-d8	5.73	136	2969375	40.00	ppm	0.00
47) Acenaphthene-d10	7.17	164	1718593	40.00	ppm	-0.01
69) Phenanthrene-d10	9.08	188	2853263	40.00	ppm	-0.01
83) Chrysene-d12	14.37	240	2573905	40.00	ppm	-0.01
92) Perylene-d12	17.41	264	2448843	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.80	152	729137	40.00	ppm	0.00
104) Naphthalene-d8b	5.73	136	2969375	40.00	ppm	0.00
106) Acenaphthene-d10b	7.17	164	1718593	40.00	ppm	-0.01
108) Phenanthrene-d10b	9.08	188	2853263	40.00	ppm	-0.01
110) Chrysene-d12b	14.37	240	2573905	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.84	112	771014	30.07	ppm	0.01
Spiked Amount 50.000			Recovery = 60.14%			
8) Phenol-d5	4.56	99	607220	19.47	ppm	0.01
Spiked Amount 50.000			Recovery = 38.94%			
25) Nitrobenzene-d5	5.20	82	1537070	55.43	ppm	-0.01
Spiked Amount 50.000			Recovery = 110.86%			
51) 2-Fluorobiphenyl	6.54	172	2659289	48.48	ppm	0.00
Spiked Amount 50.000			Recovery = 96.96%			
73) 2,4,6-Tribromophenol	8.08	330	330262	56.72	ppm	0.00
Spiked Amount 50.000			Recovery = 113.44%			
85) Terphenyl-d14	12.15	244	2430492	46.50	ppm	-0.02
Spiked Amount 50.000			Recovery = 93.00%			

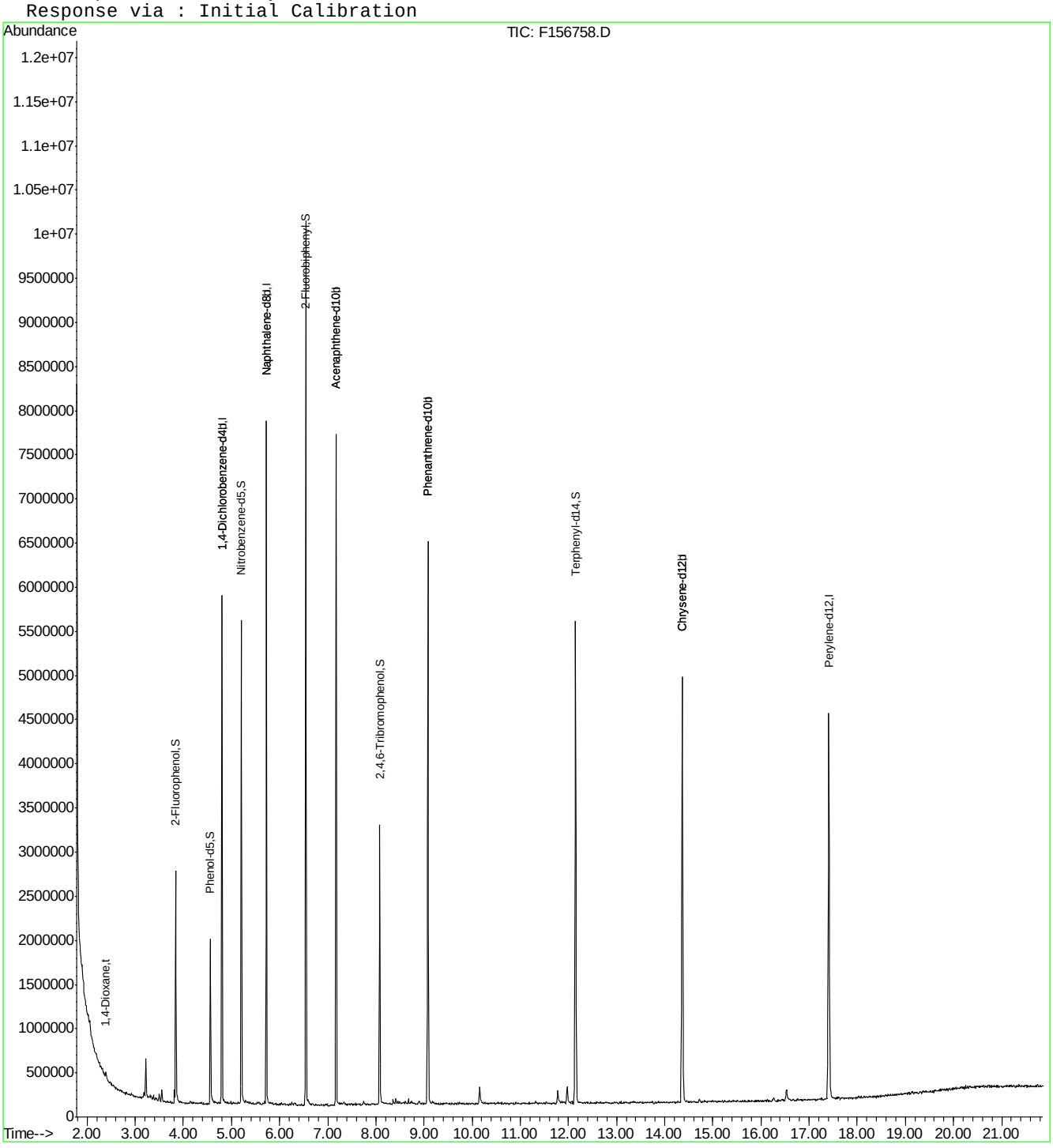
Target Compounds						Qvalue
2) 1,4-Dioxane	2.39	88	23636	2.09	ppm	96

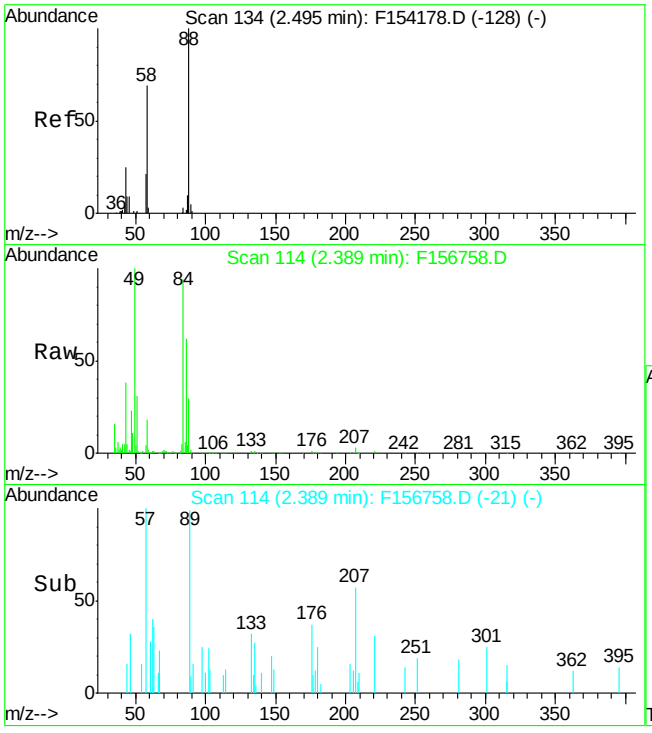
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156758.D Vial: 8
Acq On : 3 May 2016 8:17 pm Operator: seanb1
Sample : jc19473-2 Inst : MSF
Misc : op93555,ef6600,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 9:37 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 May 04 09:33:04 2016
Response via : Initial Calibration

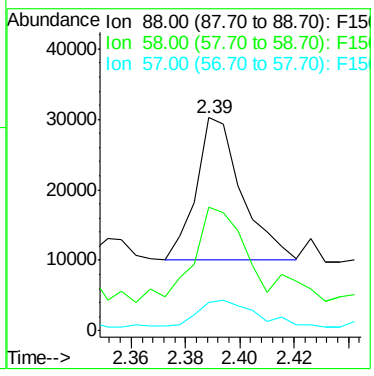




#2
1,4-Dioxane
Concen: 2.09 ppm
RT: 2.39 min Scan# 114
Delta R.T. -0.01 min
Lab File: F156758.D
Acq: 3 May 2016 8:17 pm

Tgt Ion: 88 Resp: 23636

Ion	Ratio	Lower	Upper
88	100		
58	57.8	29.3	89.3
57	16.6	0.0	51.7



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83106.D
Acq On : 11 May 2016 7:01 pm
Operator : ashleyn
Sample : jc19473-3
Misc : op93597,e3e3643,30.5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 13 12:17:03 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu May 12 10:31:50 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	123315	40.00	ppm	-0.11
24) Naphthalene-d8	5.463	136	469698	40.00	ppm	-0.14
47) Acenaphthene-d10	7.463	164	292308	40.00	ppm	-0.17
69) Phenanthrene-d10	9.614	188	514736	40.00	ppm	-0.19
83) Chrysene-d12	13.780	240	523423	40.00	ppm	-0.21
92) Perylene-d12	15.893	264	371687	40.00	ppm	-0.20
102) 1,4-Dichlorobenzene-d4a	4.420	152	123315	40.00	ppm	-0.11
104) Acenaphthene-d10a	7.463	164	292308	40.00	ppm	-0.17
106) Phenanthrene-d10a	9.614	188	514736	40.00	ppm	-0.19
108) Chrysene-d12a	13.780	240	523423	40.00	ppm	-0.21
110) Naphthalene-d8a	5.463	136	469698	40.00	ppm	-0.14

System Monitoring Compounds						
5) 2-Fluorophenol	3.468	112	91084	24.09	ppm	-0.08
Spiked Amount 50.000			Recovery	=	48.18%	
8) Phenol-d5	4.211	99	116323	23.65	ppm	-0.08
Spiked Amount 50.000			Recovery	=	47.30%	
25) Nitrobenzene-d5	4.853	82	117530	25.02	ppm	-0.12
Spiked Amount 50.000			Recovery	=	50.04%	
51) 2-Fluorobiphenyl	6.618	172	288027	29.71	ppm	-0.16
Spiked Amount 50.000			Recovery	=	59.42%	
73) 2,4,6-Tribromophenol	8.592	330	48932	26.95	ppm	-0.17
Spiked Amount 50.000			Recovery	=	53.90%	
85) Terphenyl-d14	12.170	244	336692	30.64	ppm	-0.19
Spiked Amount 50.000			Recovery	=	61.28%	

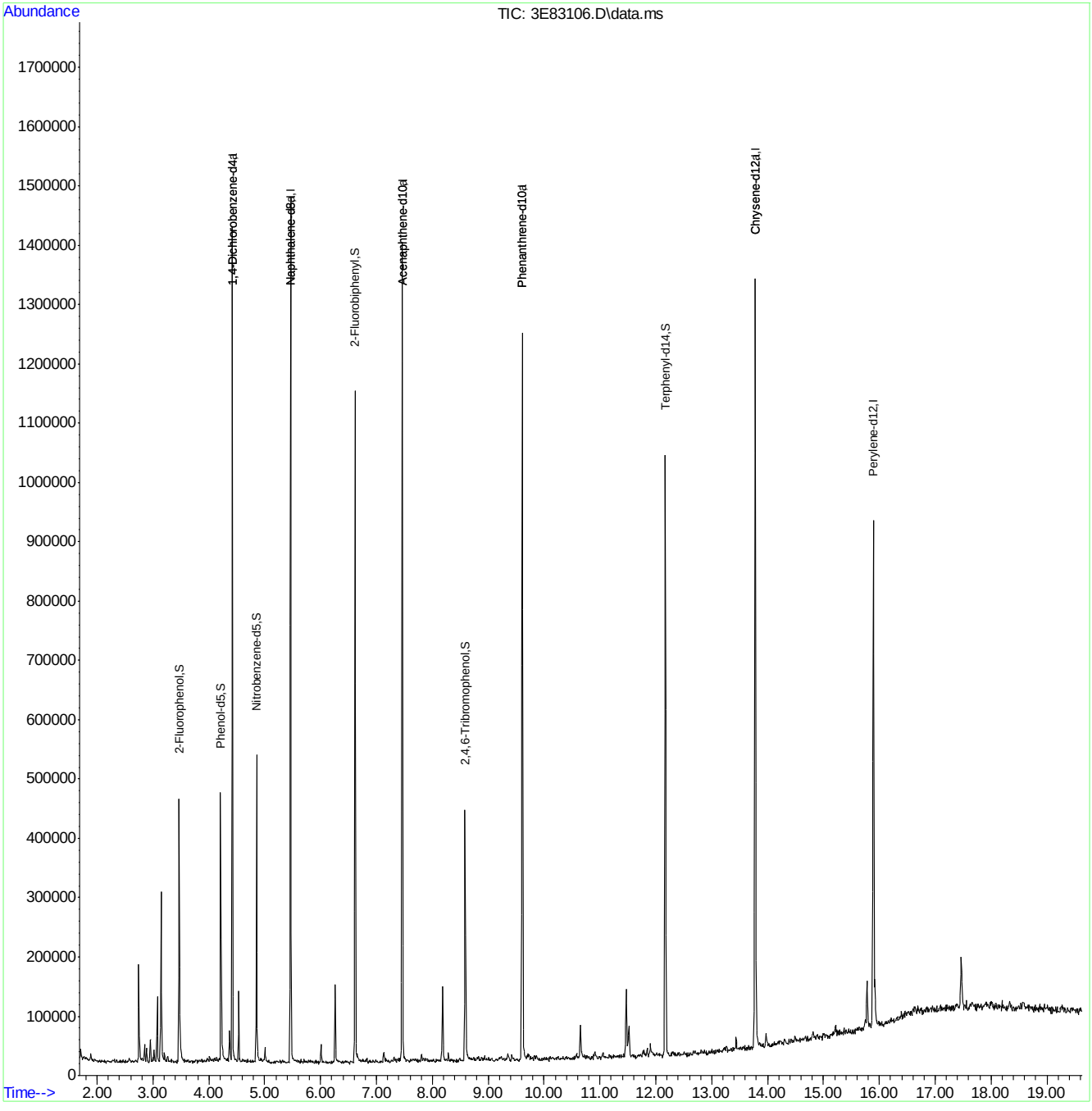
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3643\
Data File : 3E83106.D
Acq On : 11 May 2016 7:01 pm
Operator : ashleyn
Sample : jc19473-3
Misc : op93597,e3e3643,30.5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 13 12:17:03 2016
Quant Method : C:\msdchem\1\METHODS\M3E3623.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu May 12 10:31:50 2016
QLast Update : Thu May 12 10:31:50 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61049.D
Acq On : 4 May 2016 11:32 am
Operator : linseyk
Sample : jc19473-1
Misc : op93555a,e3m2870,900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 05 14:47:01 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	306429	4.00	ppm	-0.13
14) Fluorene-d10	13.467	176	456744	4.00	ppm	-0.18
21) Fluoranthene-d10	17.685	212	735937	4.00	ppm	-0.17
31) Benzo(a)pyrene-d12	22.289	264	577883	4.00	ppm	-0.16
System Monitoring Compounds						
3) 2-Fluorophenol	4.399	112	1330483	34.70	ppm	-0.11
Spiked Amount 50.000			Recovery = 69.40%			
4) Phenol-d5	6.000	99	1425410	22.47	ppm	-0.09
Spiked Amount 50.000			Recovery = 44.94%			
7) Nitrobenzene-d5	7.587	82	2727717	46.25	ppm	-0.12
Spiked Amount 50.000			Recovery = 92.50%			
15) 2-Fluorobiphenyl	11.160	172	6565609	52.31	ppm	-0.14
Spiked Amount 50.000			Recovery = 104.62%			
20) 2,4,6-Tribromophenol	14.014	330	716359	50.11	ppm	-0.16
Spiked Amount 50.000			Recovery = 100.22%			
28) Terphenyl-d14	18.504	244	6133531	57.45	ppm	-0.16
Spiked Amount 50.000			Recovery = 114.90%			
Target Compounds						Qvalue

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

7.1.4

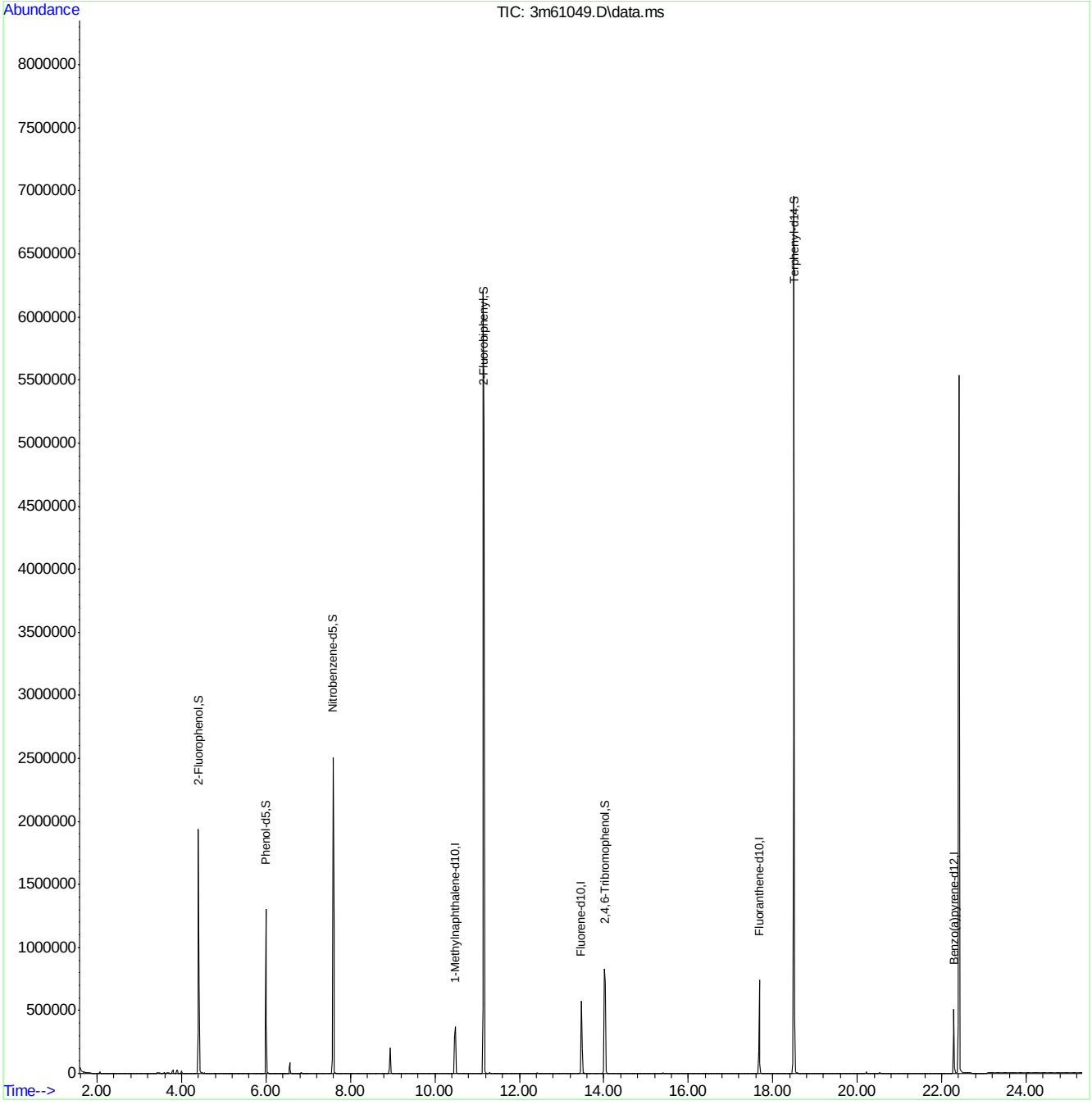
7

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61049.D
Acq On : 4 May 2016 11:32 am
Operator : linseyk
Sample : jc19473-1
Misc : op93555a,e3m2870,900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 05 14:47:01 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 JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61048.D
Acq On : 4 May 2016 11:00 am
Operator : linseyk
Sample : jc19473-2
Misc : op93555a,e3m2870,900
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 12:50:12 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	10.467	150	341879	4.00	ppm	-0.15
14) Fluorene-d10	13.467	176	526083	4.00	ppm	-0.18
21) Fluoranthene-d10	17.685	212	833978	4.00	ppm	-0.17
31) Benzo(a)pyrene-d12	22.289	264	658475	4.00	ppm	-0.16
System Monitoring Compounds						
3) 2-Fluorophenol	4.399	112	1380209	32.27	ppm	-0.11
Spiked Amount 50.000			Recovery = 64.54%			
4) Phenol-d5	6.000	99	1450708	20.50	ppm	-0.09
Spiked Amount 50.000			Recovery = 41.00%			
7) Nitrobenzene-d5	7.587	82	2885584	43.85	ppm	-0.12
Spiked Amount 50.000			Recovery = 87.70%			
15) 2-Fluorobiphenyl	11.160	172	7228325	50.00	ppm	-0.14
Spiked Amount 50.000			Recovery = 100.00%			
20) 2,4,6-Tribromophenol	14.014	330	808932	49.13	ppm	-0.16
Spiked Amount 50.000			Recovery = 98.26%			
28) Terphenyl-d14	18.504	244	6400673	52.91	ppm	-0.16
Spiked Amount 50.000			Recovery = 105.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.190	88	41714	2.36	ppm	# 1

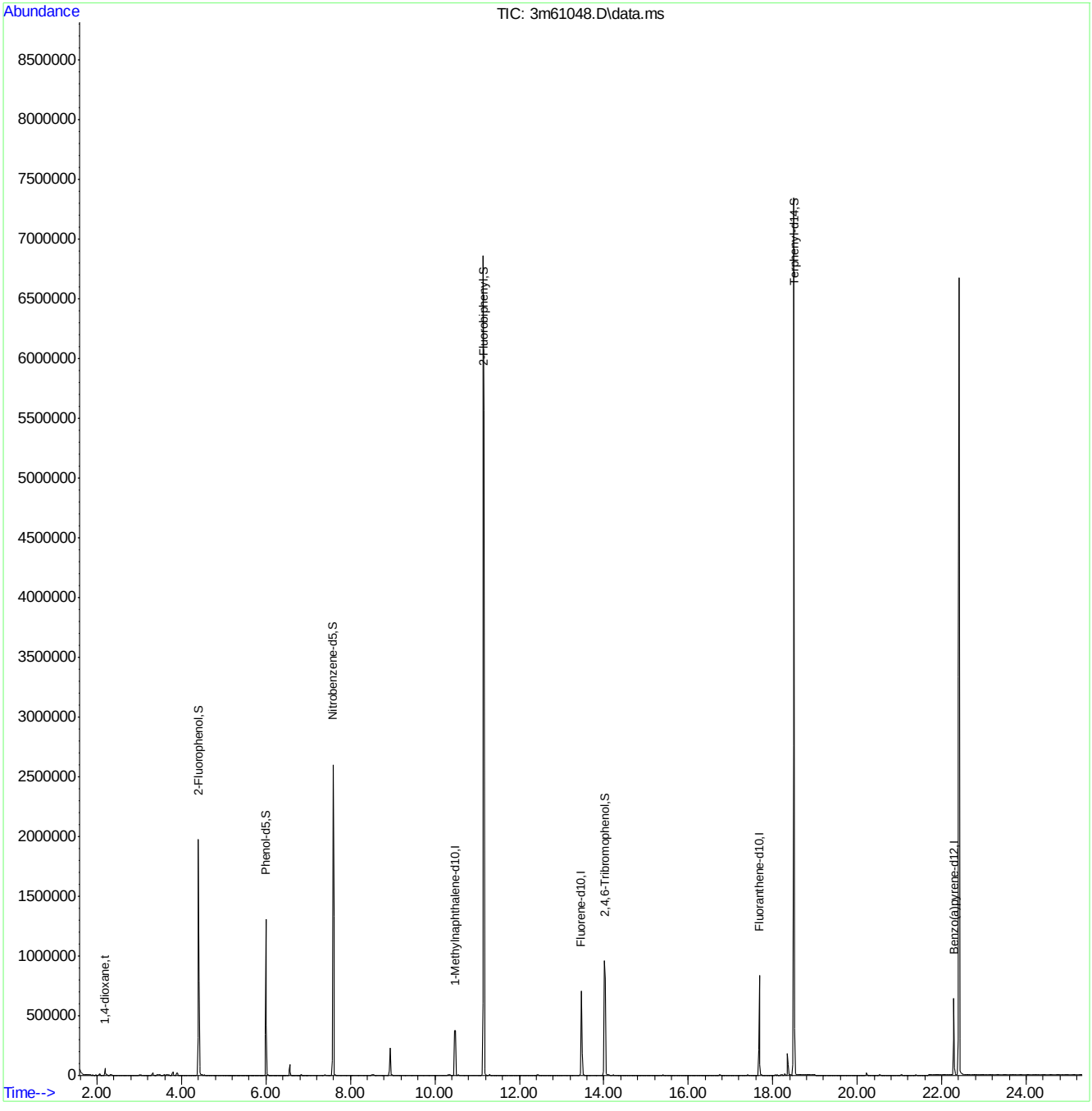
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

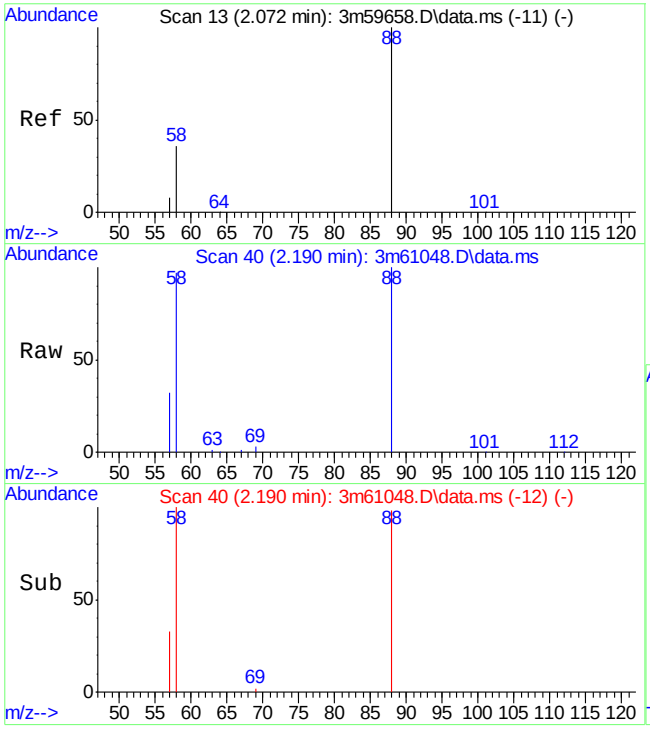
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61048.D
Acq On : 4 May 2016 11:00 am
Operator : linseyk
Sample : jc19473-2
Misc : op93555a,e3m2870,900
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 12:50:12 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



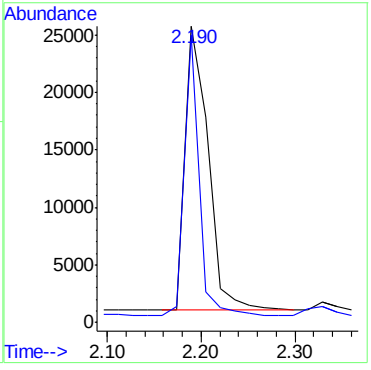
M3M2855SIM.M Wed May 04 12:50:16 2016 RPT1 Page: 2



#2
1,4-dioxane
Concen: 2.36 ppm
RT: 2.190 min Scan# 40
Delta R.T. -0.062 min
Lab File: 3m61048.D
Acq: 4 May 2016 11:00 am

Tgt Ion: 88 Resp: 41714

Ion	Ratio	Lower	Upper
88	100		
58	98.8	0.0	36.8#



7.1.5

7

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 09:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61096.D
Acq On : 5 May 2016 3:05 pm
Operator : linseyk
Sample : jc19473-3
Misc : op93597a,e3m2872,30.5
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 08:52:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:08:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.467	150	357271	4.00	ppm	-0.15
14) Fluorene-d10	13.449	176	507980	4.00	ppm	-0.20
21) Fluoranthene-d10	17.670	212	838427	4.00	ppm	-0.19
31) Benzo(a)pyrene-d12	22.274	264	651189	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.399	112	1474509	32.99	ppm	-0.11
Spiked Amount 50.000			Recovery = 65.98%			
4) Phenol-d5	6.000	99	2453111	33.17	ppm	-0.09
Spiked Amount 50.000			Recovery = 66.34%			
7) Nitrobenzene-d5	7.568	82	1949212	28.34	ppm	-0.14
Spiked Amount 50.000			Recovery = 56.68%			
15) 2-Fluorobiphenyl	11.129	172	4834276	34.63	ppm	-0.17
Spiked Amount 50.000			Recovery = 69.26%			
20) 2,4,6-Tribromophenol	14.014	330	543787	34.20	ppm	-0.16
Spiked Amount 50.000			Recovery = 68.40%			
28) Terphenyl-d14	18.489	244	4511367	37.09	ppm	-0.18
Spiked Amount 50.000			Recovery = 74.18%			
Target Compounds						Qvalue
24) Phenanthrene	15.413	178	48429	0.24	ppm	92
26) Fluoranthene	17.701	202	98966	0.38	ppm	99
27) Pyrene	18.087	202	70882	0.30	ppm	98
29) Benzo[a]anthracene	20.173	228	23987	0.10	ppm	90
32) Benzo[b]fluoranthene	21.857	252	44255m	0.20	ppm	
34) Benzo[a]pyrene	22.305	252	25734m	0.13	ppm	
37) Benzo[g,h,i]perylene	24.144	276	20480	0.11	ppm	93

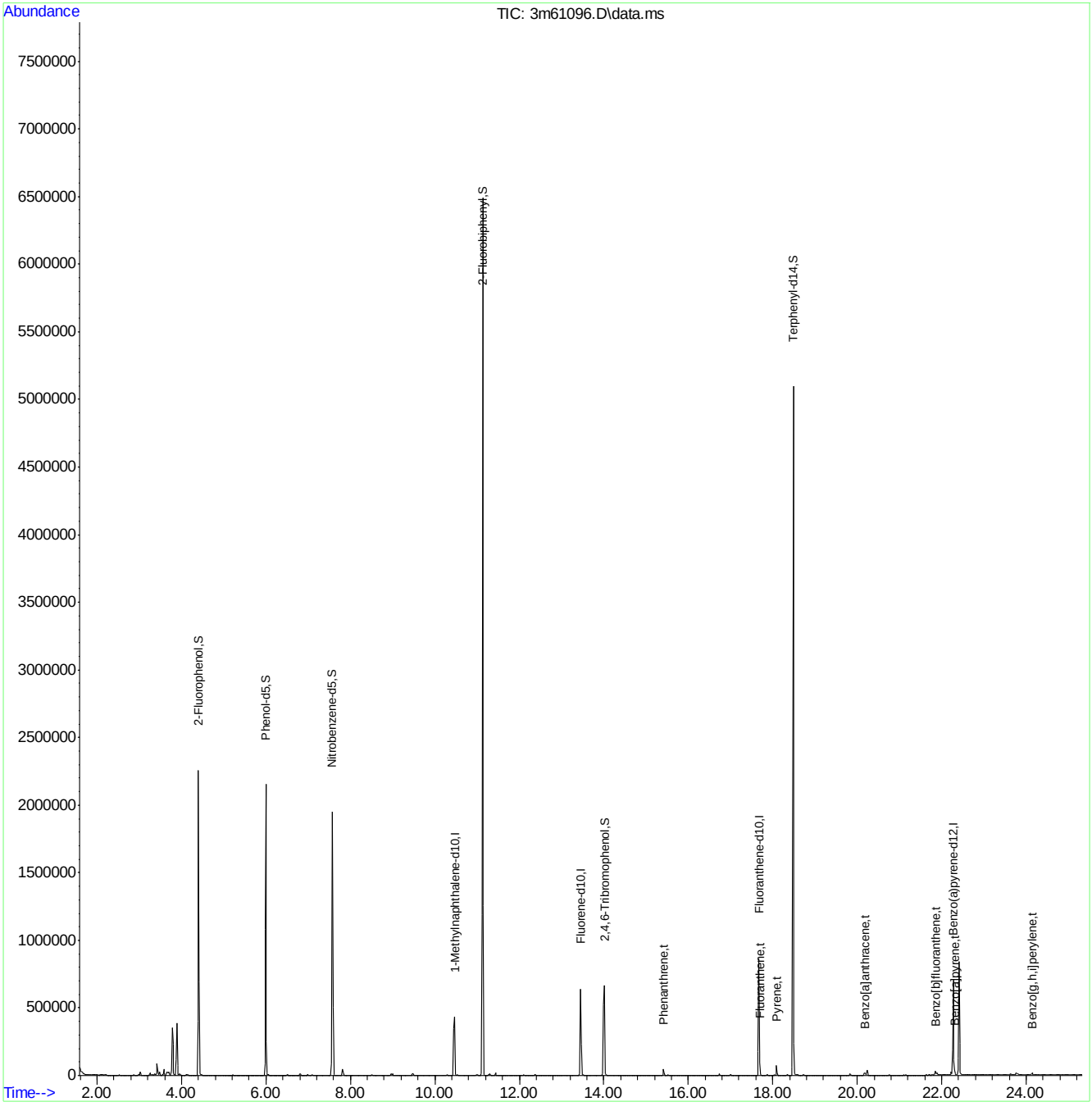
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.16.9
7

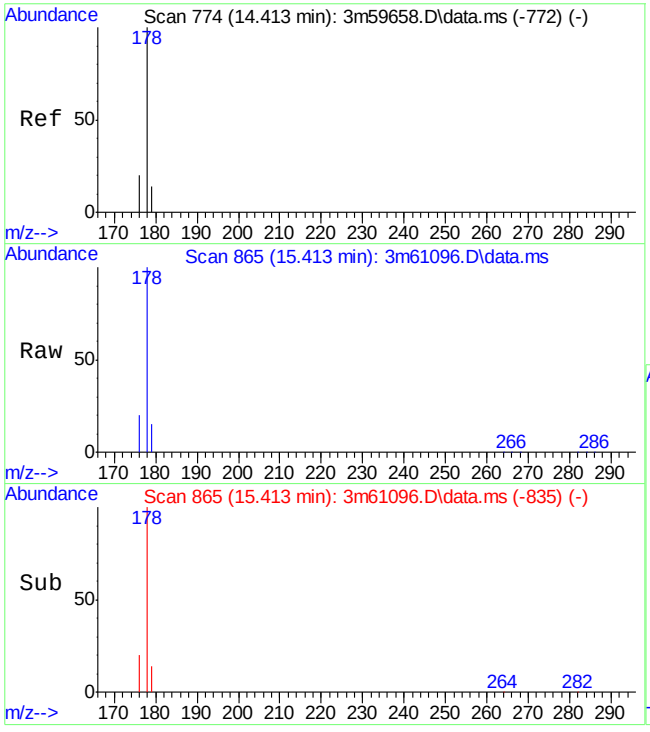
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61096.D
Acq On : 5 May 2016 3:05 pm
Operator : linseyk
Sample : jc19473-3
Misc : op93597a,e3m2872,30.5
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 08:52:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:08:35 2016
Response via : Initial Calibration



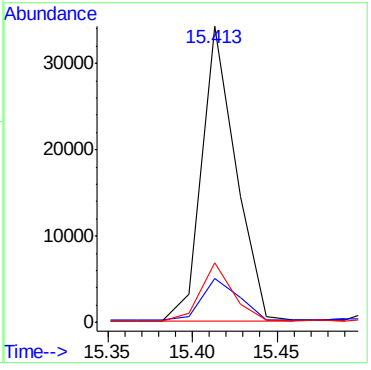
SGS ACCUTEST JC19473

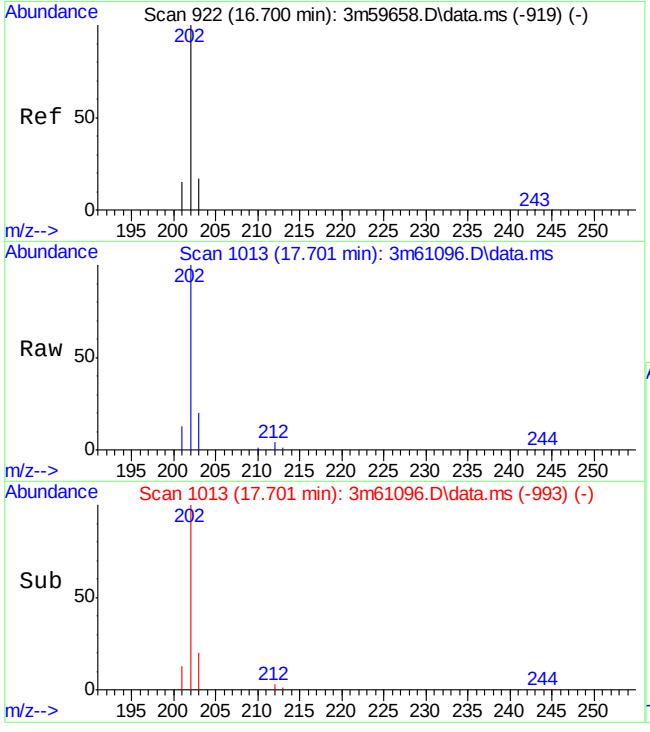


#24
Phenanthrene
Concen: 0.24 ppm
RT: 15.413 min Scan# 865
Delta R.T. -0.031 min
Lab File: 3m61096.D
Acq: 5 May 2016 3:05 pm

Tgt Ion:178 Resp: 48429

Ion	Ratio	Lower	Upper
178	100		
179	14.4	0.0	47.2
176	19.8	0.0	45.7

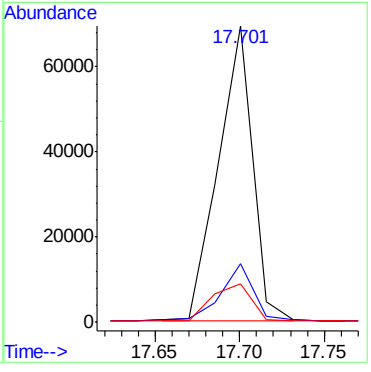


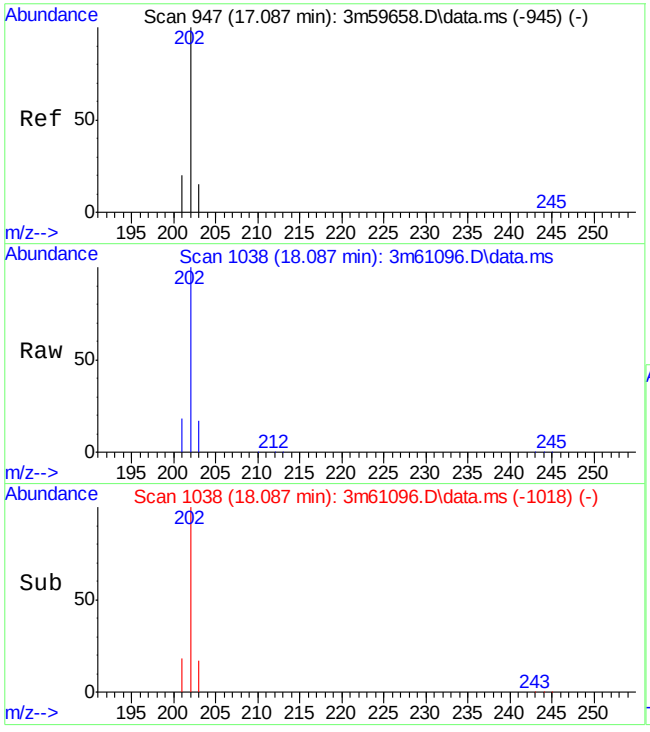


#26
Fluoranthene
Concen: 0.38 ppm
RT: 17.701 min Scan# 1013
Delta R.T. -0.190 min
Lab File: 3m61096.D
Acq: 5 May 2016 3:05 pm

Tgt Ion:202 Resp: 98966

Ion	Ratio	Lower	Upper
202	100		
203	19.3	0.0	48.5
201	12.6	0.0	42.8

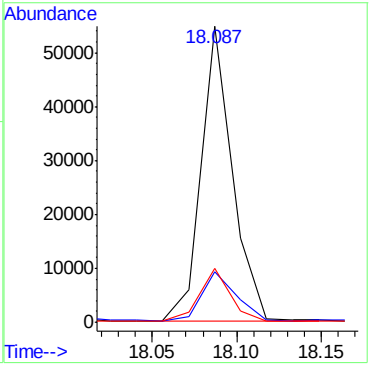


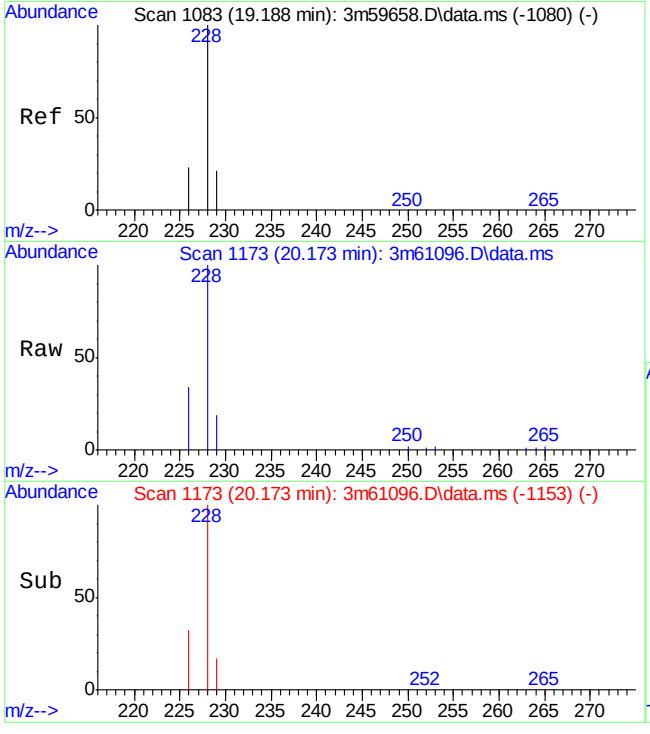


#27
Pyrene
Concen: 0.30 ppm
RT: 18.087 min Scan# 1038
Delta R.T. -0.190 min
Lab File: 3m61096.D
Acq: 5 May 2016 3:05 pm

Tgt Ion:202 Resp: 70882

Ion	Ratio	Lower	Upper
202	100		
203	16.8	0.0	47.3
201	18.1	0.0	47.1

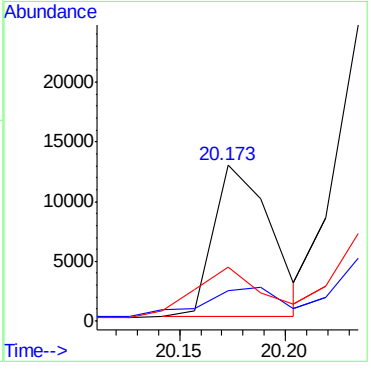


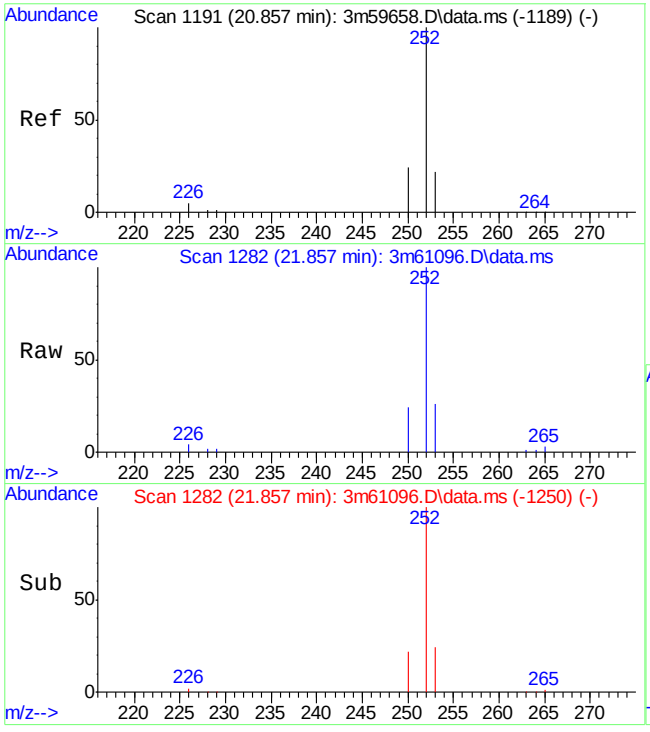


#29
Benzo[a]anthracene
Concen: 0.10 ppm
RT: 20.173 min Scan# 1173
Delta R.T. -0.193 min
Lab File: 3m61096.D
Acq: 5 May 2016 3:05 pm

Tgt Ion:228 Resp: 23987

Ion	Ratio	Lower	Upper
228	100		
229	13.9	0.0	49.1
226	30.0	0.0	55.5

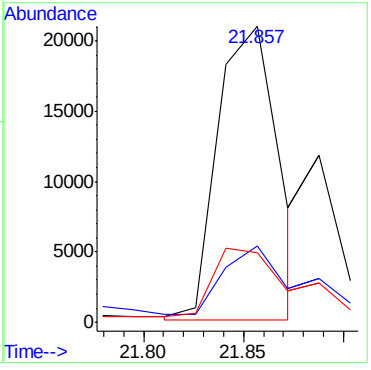


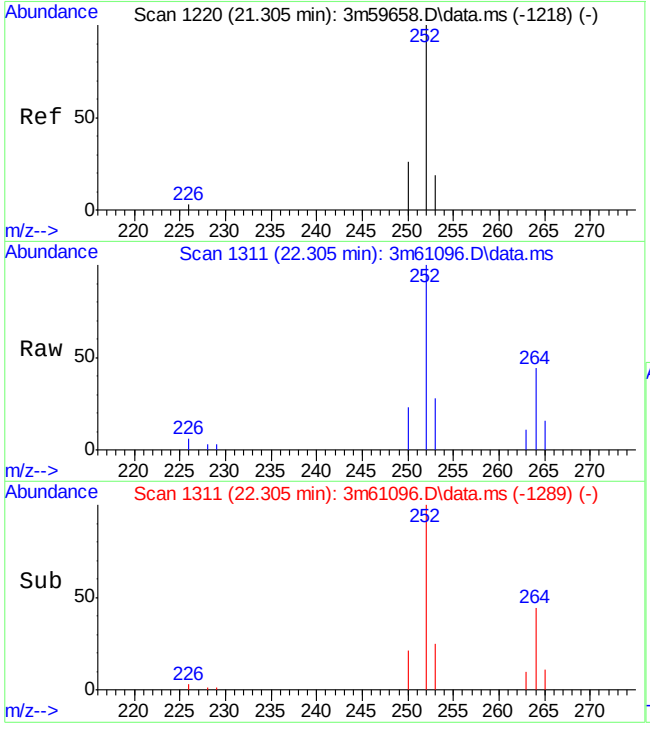


#32
Benzo[b]fluoranthene
Concen: 0.20 ppm m
RT: 21.857 min Scan# 1282
Delta R.T. 0.000 min
Lab File: 3m61096.D
Acq: 5 May 2016 3:05 pm

Tgt Ion:252 Resp: 44255

Ion	Ratio	Lower	Upper
252	100		
253	25.8	0.0	49.4
250	23.6	0.0	56.4

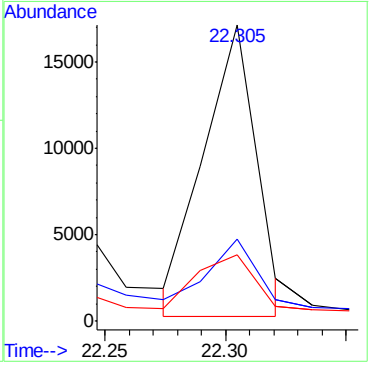


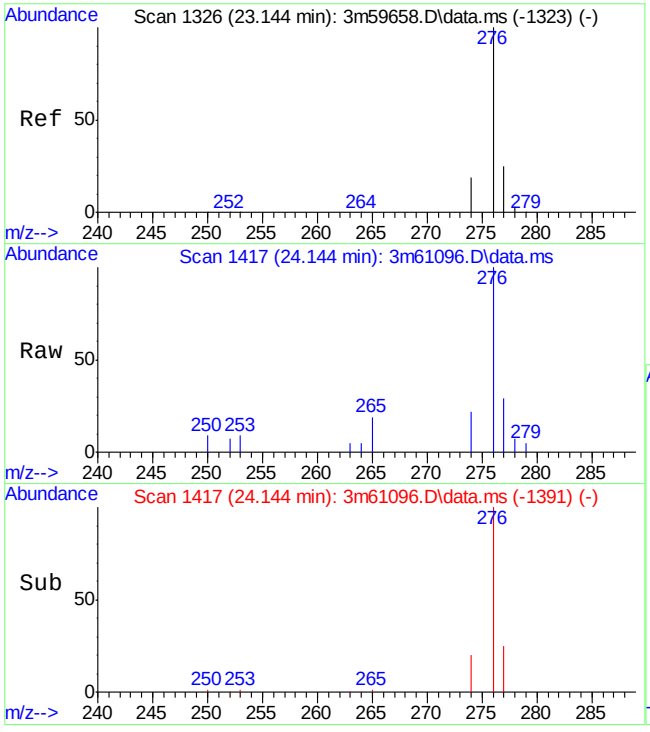


#34
Benzo[a]pyrene
Concen: 0.13 ppm m
RT: 22.305 min Scan# 1311
Delta R.T. -0.158 min
Lab File: 3m61096.D
Acq: 5 May 2016 3:05 pm

Tgt Ion:252 Resp: 25734

Ion	Ratio	Lower	Upper
252	100		
253	27.8	0.0	48.8
250	22.6	0.0	56.1

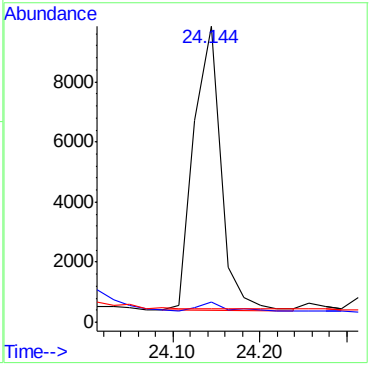




#37
Benzo[g,h,i]perylene
Concen: 0.11 ppm
RT: 24.144 min Scan# 1417
Delta R.T. -0.019 min
Lab File: 3m61096.D
Acq: 5 May 2016 3:05 pm

Tgt Ion:276 Resp: 20480

Ion	Ratio	Lower	Upper
276	100		
278	2.9	0.0	35.0
279	0.1	0.0	32.6



7.1.6

7

SGS ACCUTEST JC19473

Manual Integration Approval Summary

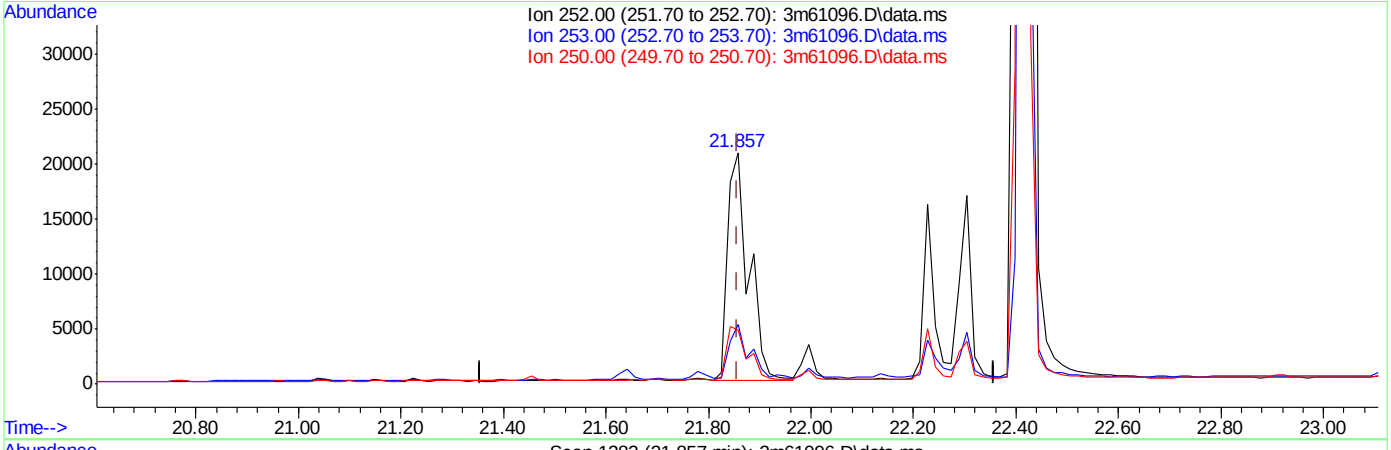
Sample Number:	JC19473-3	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M61096.D	**Analyst approved:**	05/16/16 09:09 Nina Pandya
Injection Time:	05/05/16 15:05	**Supervisor approved:**	05/16/16 09:25 Nina Pandya

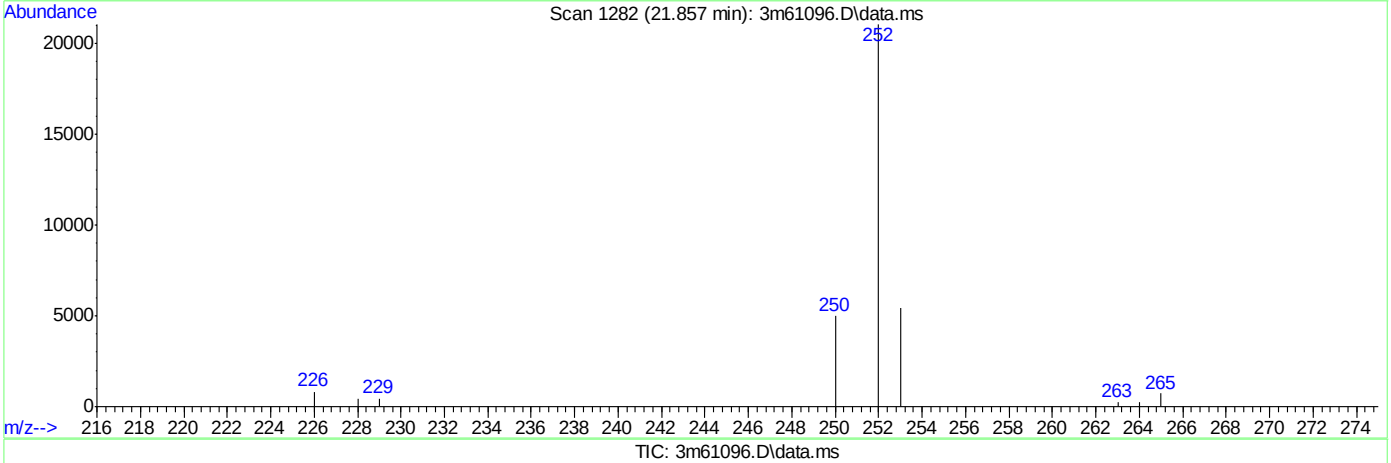
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		21.86	Overlapping peak
Benzo(a)pyrene	50-32-8		22.30	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61096.D
Acq On : 5 May 2016 3:05 pm
Operator : linseyk
Sample : jc19473-3
Misc : op93597a,e3m2872,30.5
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 05 17:24:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:08:35 2016
Response via : Initial Calibration





TIC: 3m61096.D\data.ms

(32) Benzo[b]fluoranthene (t)

21.857min (+0.000) 0.27ppm

response 57769

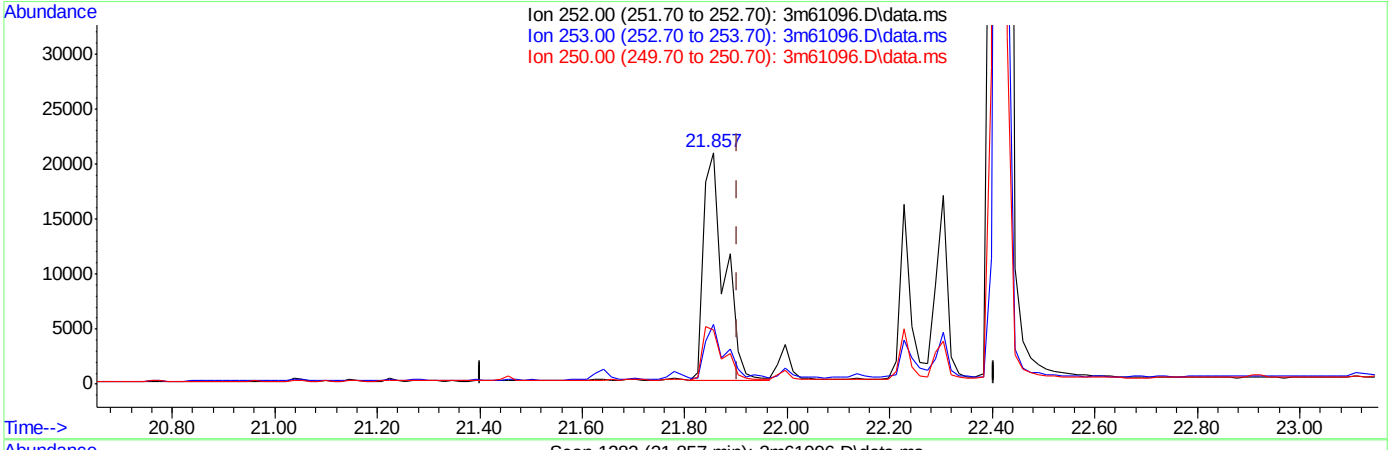
Ion	Exp%	Act%
252.00	100	100
253.00	19.40	23.60
250.00	26.40	22.13
0.00	0.00	0.00

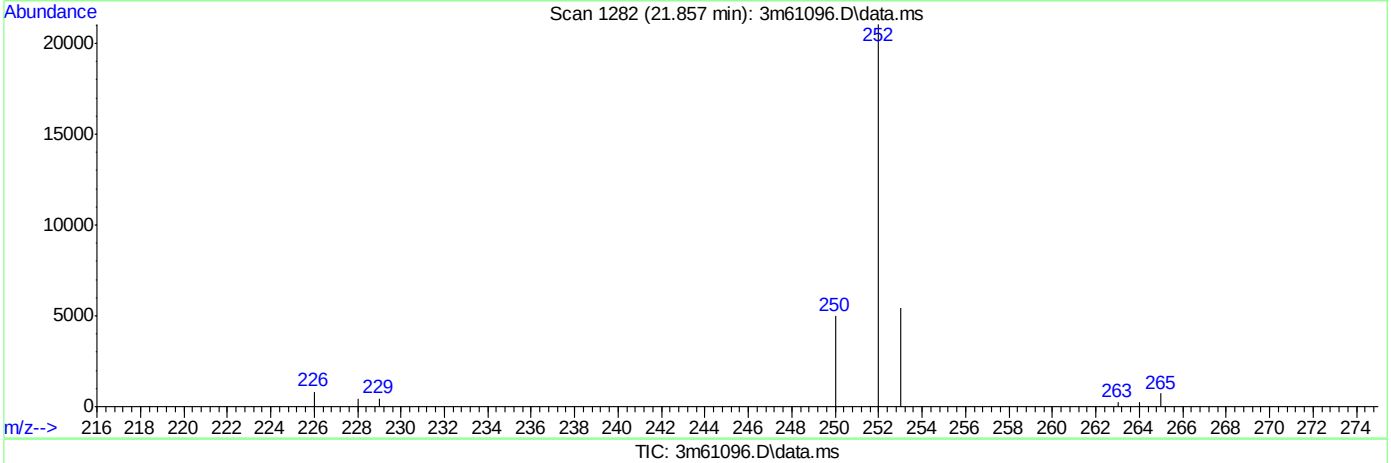
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61096.D
Acq On : 5 May 2016 3:05 pm
Operator : linseyk
Sample : jc19473-3
Misc : op93597a,e3m2872,30.5
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 05 17:24:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:08:35 2016
Response via : Initial Calibration





TIC: 3m61096.D\data.ms

(33) Benzo[k]fluoranthene (t)

21.857min (-0.046) 0.29ppm

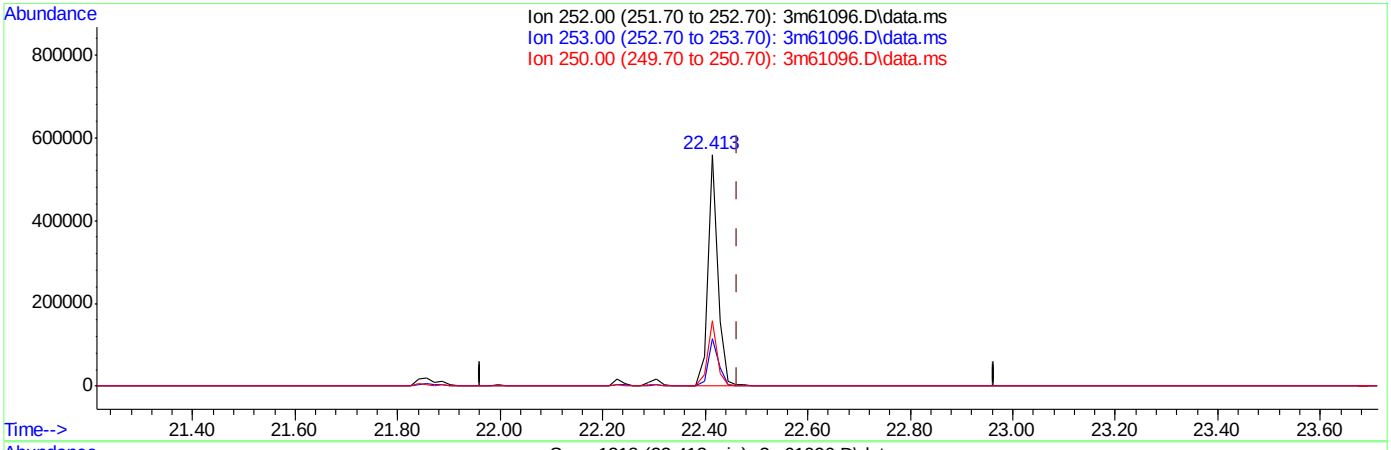
response 57769

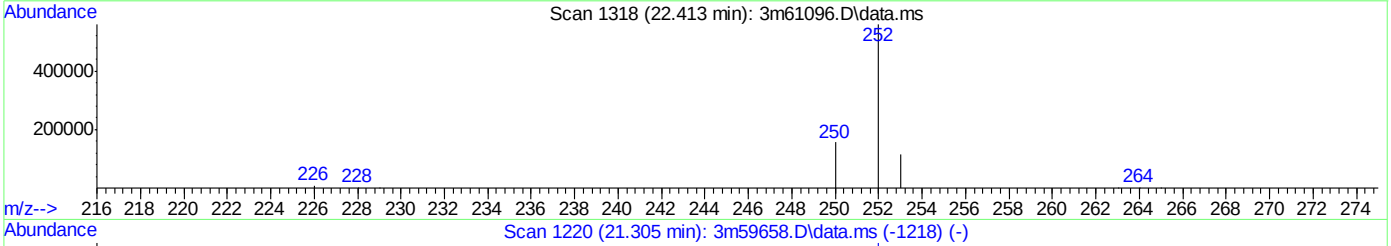
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	23.60
250.00	22.00	22.13
0.00	0.00	0.00

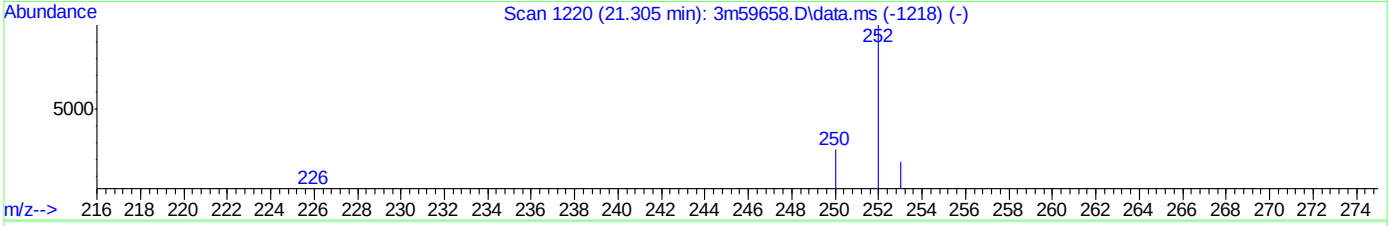
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2872\
Data File : 3m61096.D
Acq On : 5 May 2016 3:05 pm
Operator : linseyk
Sample : jc19473-3
Misc : op93597a,e3m2872,30.5
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 09 09:27:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 15:08:35 2016
Response via : Initial Calibration







TIC: 3m61096.D\data.ms

(34) Benzo[a]pyrene (t)

22.413min (-0.050) 3.67ppm

response 740577

Ion	Exp%	Act%
252.00	100	100
253.00	18.80	20.51
250.00	26.10	28.00
0.00	0.00	0.00

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156755.D Vial: 5
Acq On : 3 May 2016 6:49 pm Operator: seanb1
Sample : op93555-mb1 Inst : MSF
Misc : op93555,ef6600,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 03 19:11:43 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 May 03 09:37:34 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	740949	40.00	ppm	0.00
24) Naphthalene-d8	5.72	136	3039138	40.00	ppm	-0.01
47) Acenaphthene-d10	7.17	164	1778958	40.00	ppm	-0.01
69) Phenanthrene-d10	9.08	188	2893357	40.00	ppm	-0.01
83) Chrysene-d12	14.37	240	2607554	40.00	ppm	-0.01
92) Perylene-d12	17.41	264	2473129	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.80	152	740949	40.00	ppm	0.00
104) Naphthalene-d8b	5.72	136	3039138	40.00	ppm	-0.01
106) Acenaphthene-d10b	7.17	164	1778958	40.00	ppm	-0.01
108) Phenanthrene-d10b	9.08	188	2893357	40.00	ppm	-0.01
110) Chrysene-d12b	14.37	240	2607554	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.84	112	702925	26.98	ppm	0.01
Spiked Amount 50.000			Recovery = 53.96%			
8) Phenol-d5	4.56	99	575873	18.17	ppm	0.01
Spiked Amount 50.000			Recovery = 36.34%			
25) Nitrobenzene-d5	5.20	82	1582669	55.76	ppm	-0.01
Spiked Amount 50.000			Recovery = 111.52%			
51) 2-Fluorobiphenyl	6.54	172	2697362	47.50	ppm	0.00
Spiked Amount 50.000			Recovery = 95.00%			
73) 2,4,6-Tribromophenol	8.08	330	332460	56.31	ppm	0.00
Spiked Amount 50.000			Recovery = 112.62%			
85) Terphenyl-d14	12.15	244	2516774	47.53	ppm	-0.02
Spiked Amount 50.000			Recovery = 95.06%			

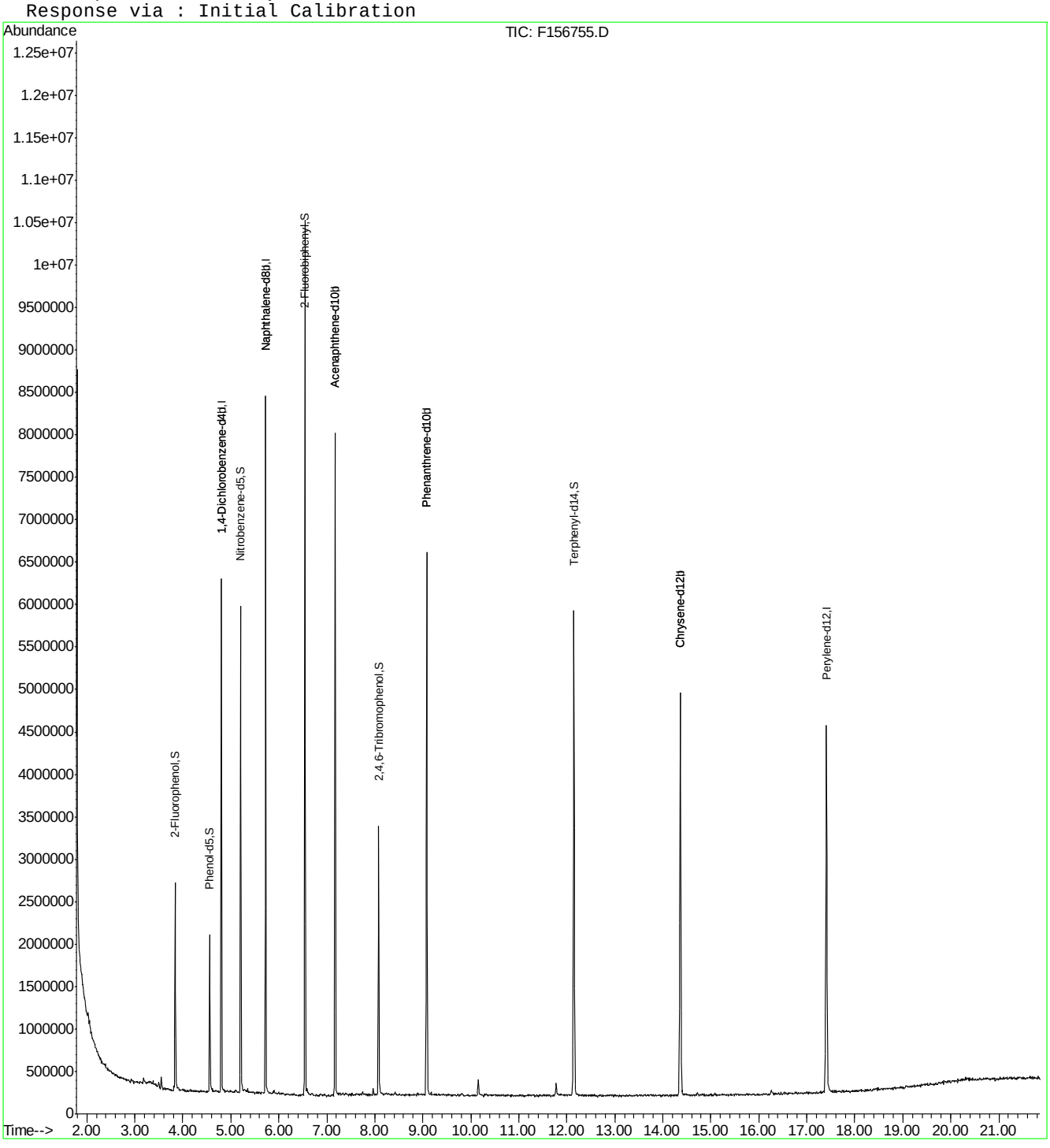
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156755.D MF6563.M Wed May 04 09:32:32 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156755.D Vial: 5
Acq On : 3 May 2016 6:49 pm Operator: seanb1
Sample : op93555-mb1 Inst : MSF
Misc : op93555,ef6600,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 9:32 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 May 03 09:37:34 2016
Response via : Initial Calibration



SGS ACCUTEST JC19473

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

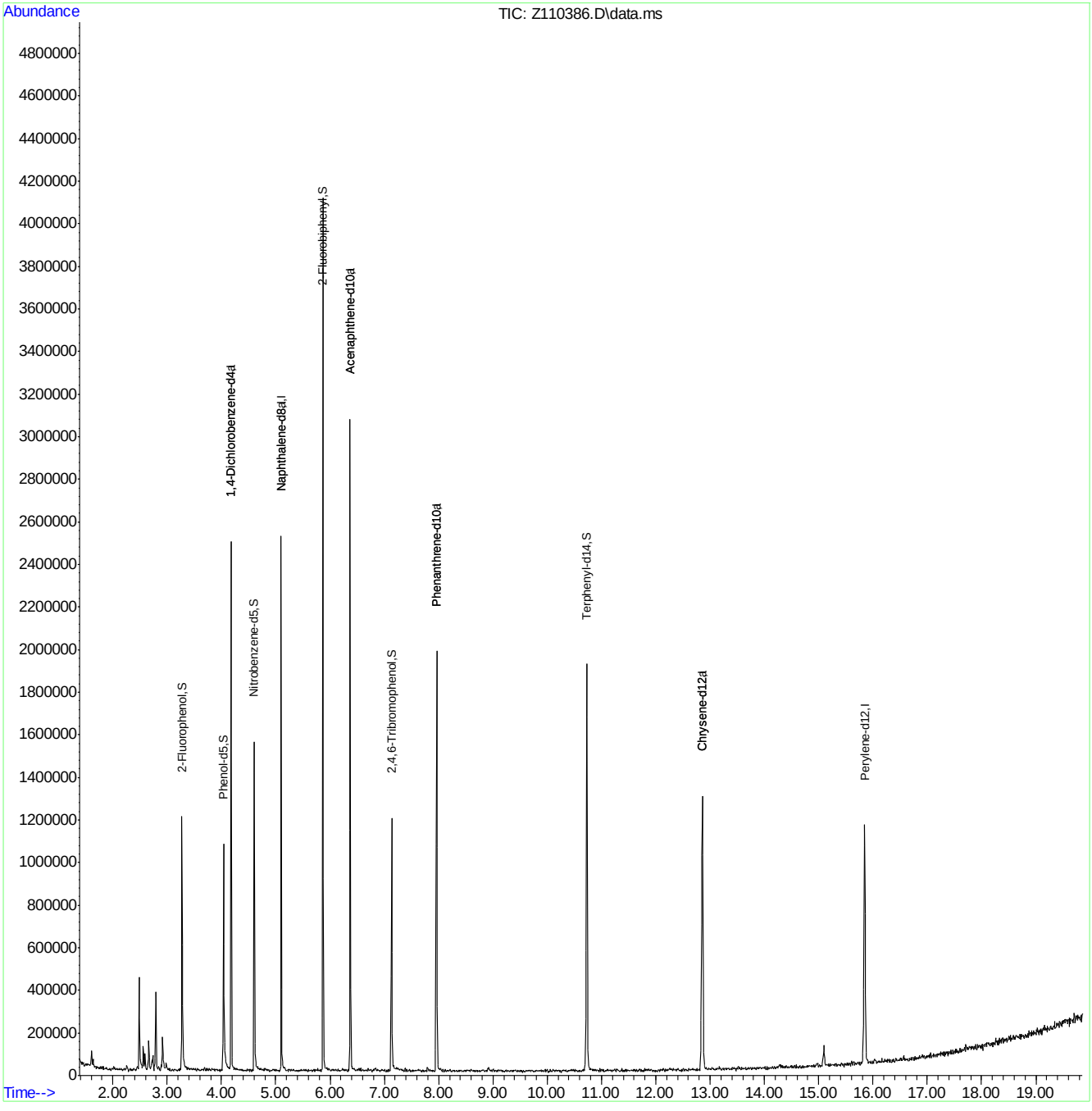
7.2.2

7

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

SGS ACCUTEST JC19473

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%			

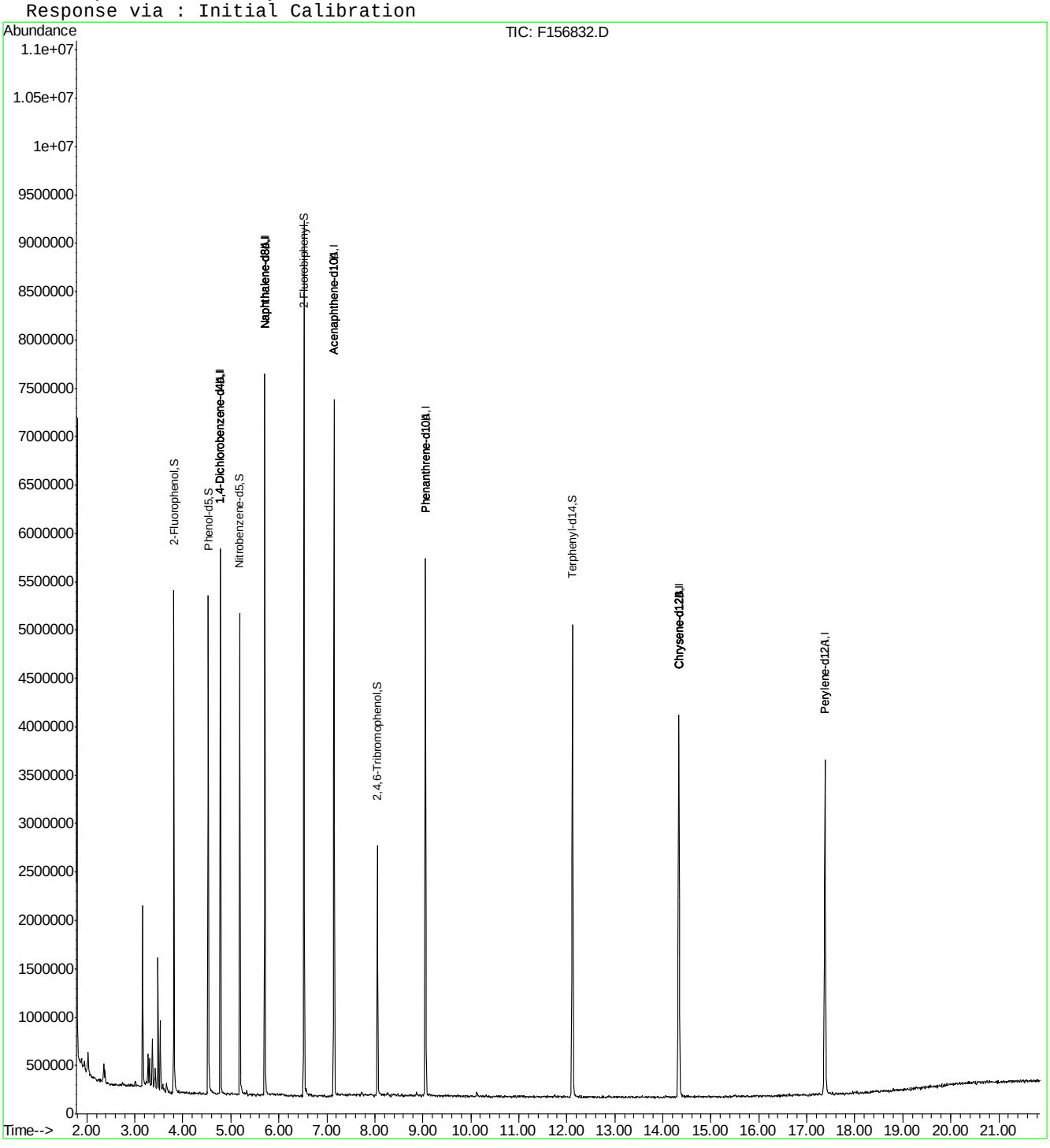
Target Compounds Qvalue

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

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%			

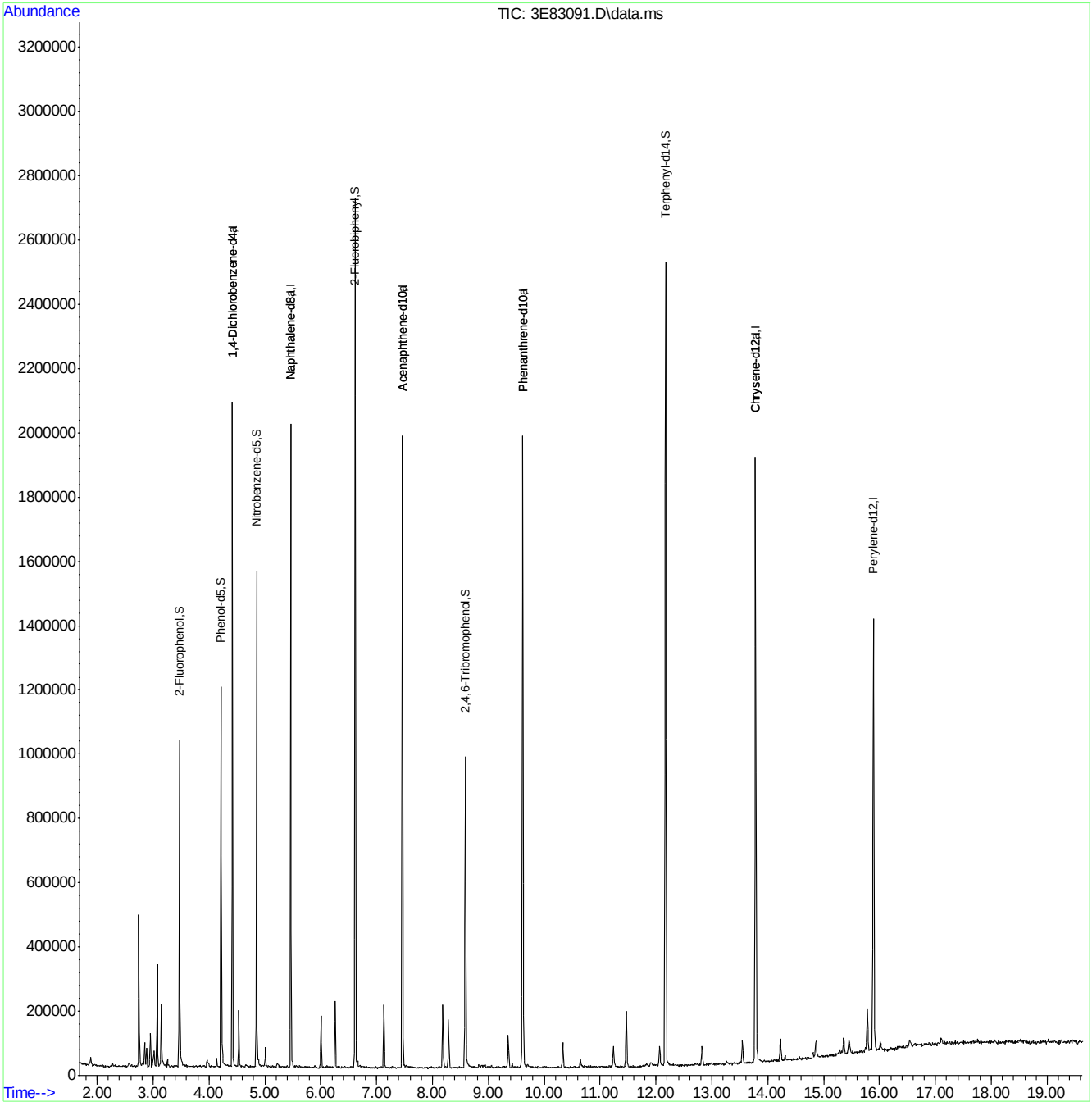
Target Compounds Qvalue

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

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



M3E3623.M Wed May 11 12:31:40 2016 MS3E

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61046.D
Acq On : 4 May 2016 9:55 am
Operator : linseyk
Sample : op93555a-mb1
Misc : op93555a,e3m2870,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 12:49:13 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	10.467	150	303598	4.00	ppm	-0.15
14) Fluorene-d10	13.467	176	474091	4.00	ppm	-0.18
21) Fluoranthene-d10	17.685	212	720980	4.00	ppm	-0.17
31) Benzo(a)pyrene-d12	22.289	264	563710	4.00	ppm	-0.16
System Monitoring Compounds						
3) 2-Fluorophenol	4.399	112	1156847	30.46	ppm	-0.11
Spiked Amount 50.000			Recovery = 60.92%			
4) Phenol-d5	6.000	99	1261223	20.07	ppm	-0.09
Spiked Amount 50.000			Recovery = 40.14%			
7) Nitrobenzene-d5	7.587	82	2784450	47.65	ppm	-0.12
Spiked Amount 50.000			Recovery = 95.30%			
15) 2-Fluorobiphenyl	11.145	172	6408213	49.19	ppm	-0.16
Spiked Amount 50.000			Recovery = 98.38%			
20) 2,4,6-Tribromophenol	14.014	330	733625	49.44	ppm	-0.16
Spiked Amount 50.000			Recovery = 98.88%			
28) Terphenyl-d14	18.504	244	6154372	58.84	ppm	-0.16
Spiked Amount 50.000			Recovery = 117.68%			
Target Compounds						Qvalue
22) Hexachlorobenzene	14.609	284	557	0.02	ppm	82

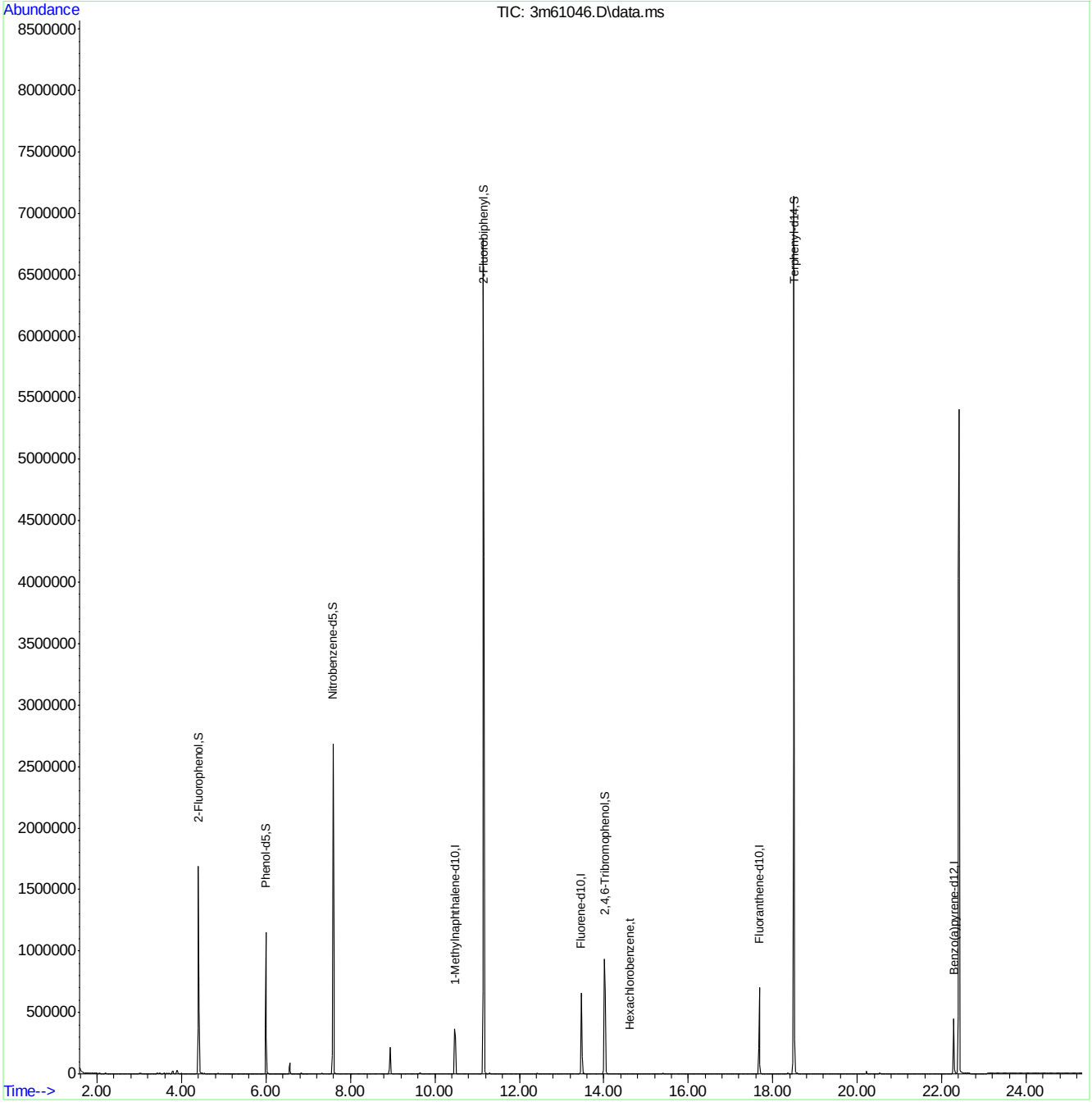
(#) = qualifier out of range (m) = manual integration (+) = signals summed

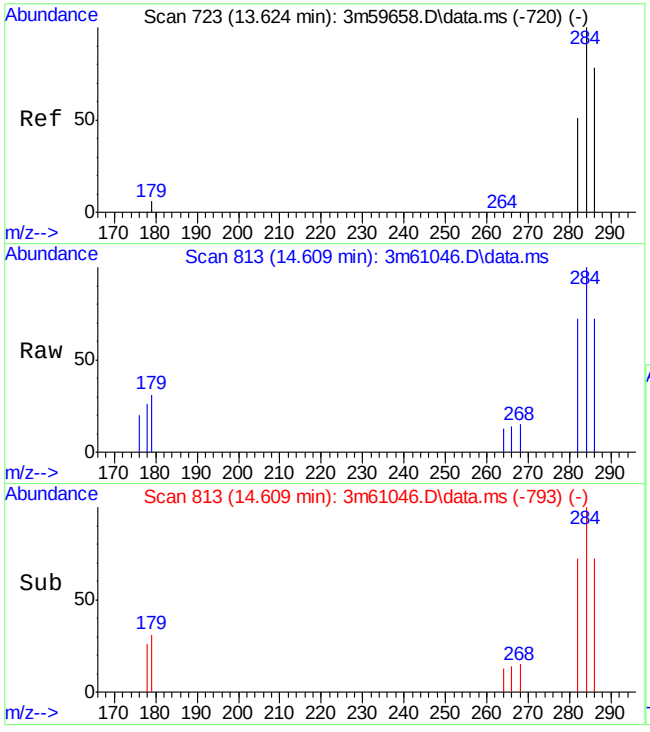
SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61046.D
Acq On : 4 May 2016 9:55 am
Operator : linseyk
Sample : op93555a-mb1
Misc : op93555a,e3m2870,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 12:49:13 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

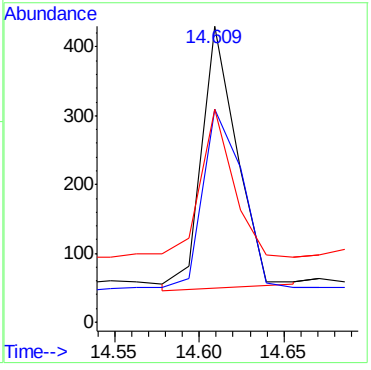




#22
Hexachlorobenzene
Concen: 0.02 ppm
RT: 14.609 min Scan# 813
Delta R.T. -0.187 min
Lab File: 3m61046.D
Acq: 4 May 2016 9:55 am

Tgt Ion:284 Resp: 557

Ion	Ratio	Lower	Upper
284	100		
286	69.5	57.4	117.4
282	56.6	16.9	76.9



7.2.5

7

SGS ACCUTEST JC19473

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

7.2.6

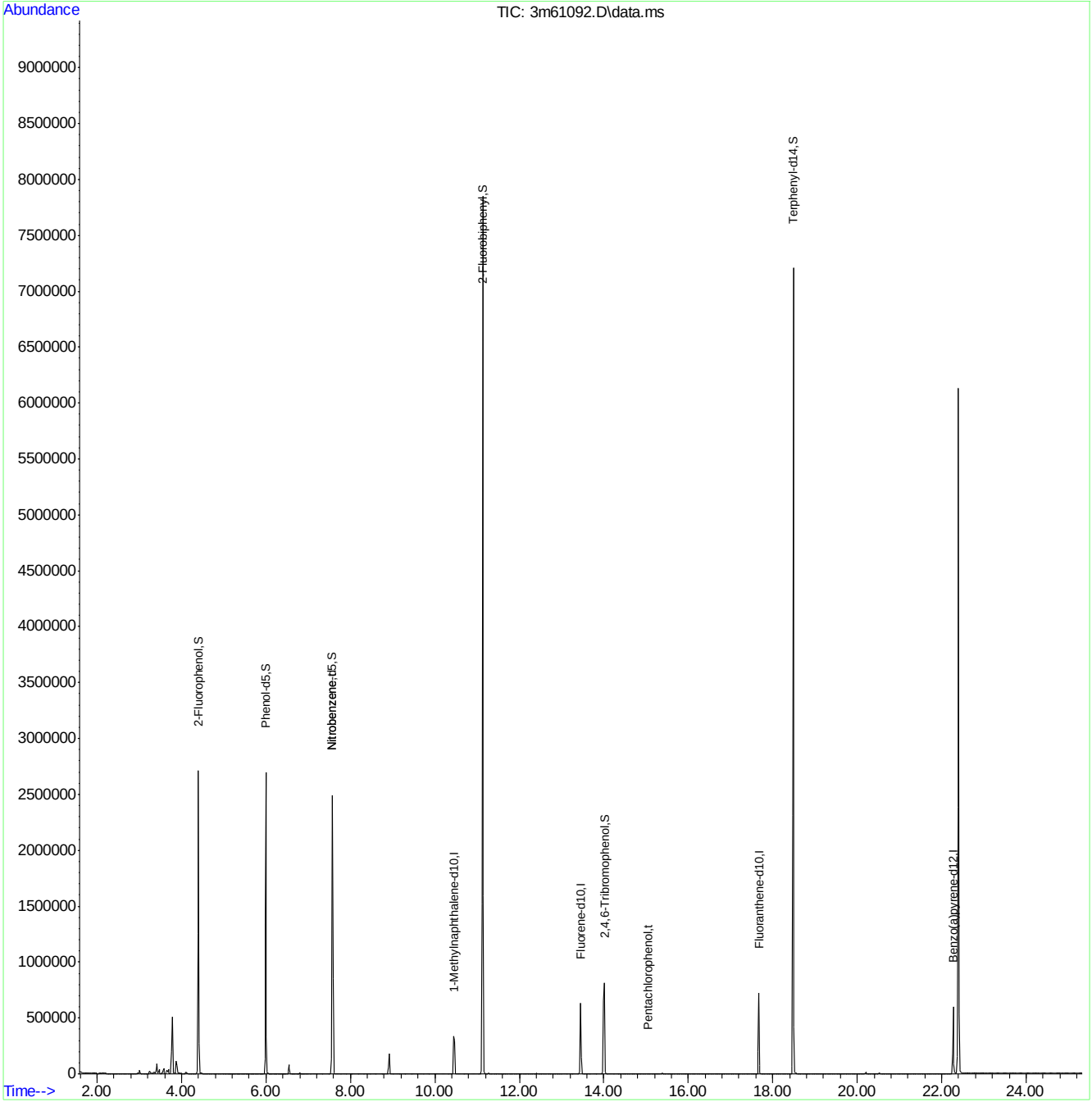
7

SGS ACCUTEST JC19473

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



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

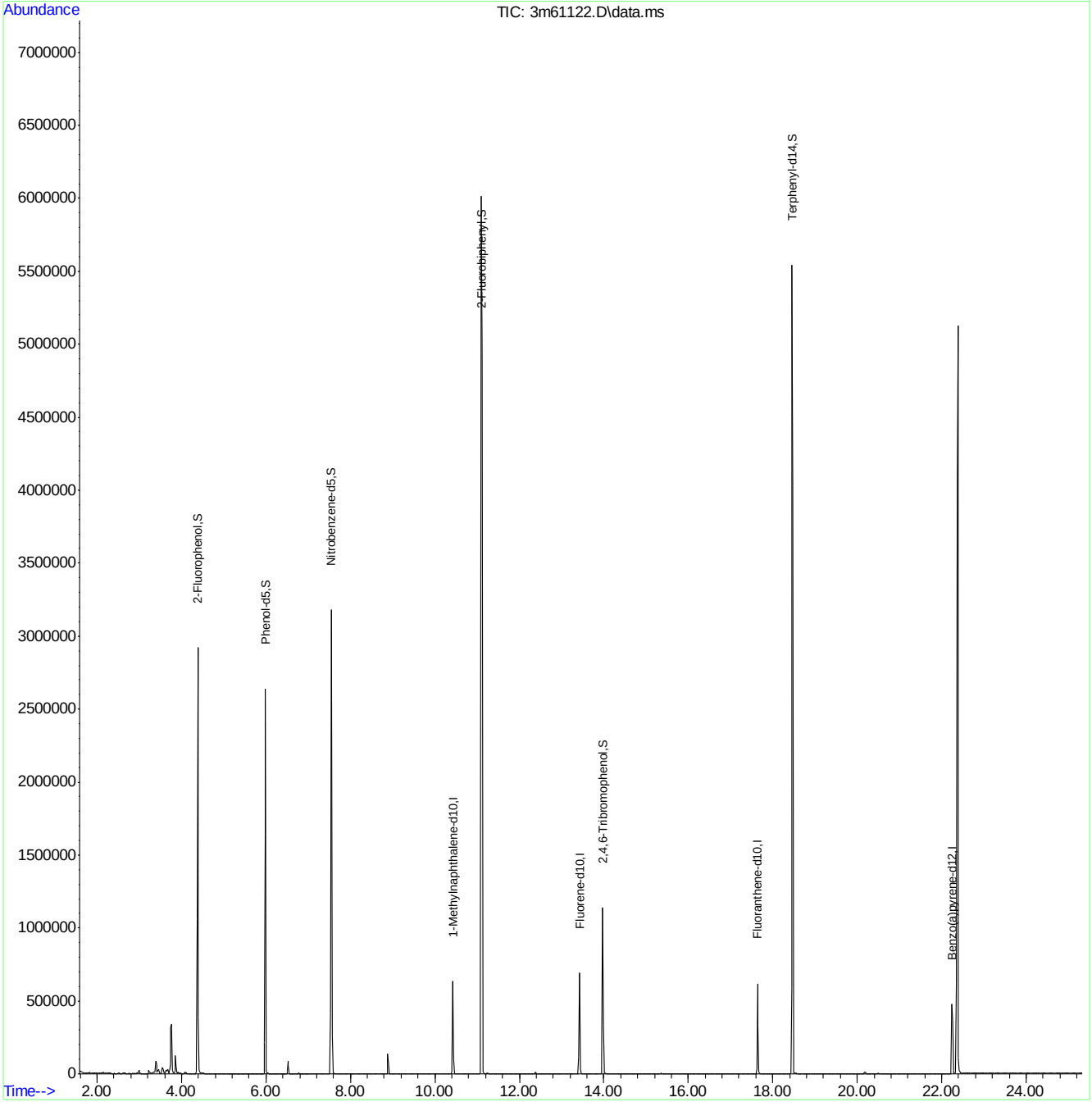
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



M3M2855SIM.M Fri May 06 14:15:11 2016 RPT1 Page: 2

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156756.D Vial: 6
Acq On : 3 May 2016 7:18 pm Operator: seanb1
Sample : op93555-bs1 Inst : MSF
Misc : op93555,ef6600,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 04 09:33:06 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 : Wed May 04 09:33:04 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	798072	40.00	ppm	0.00
24) Naphthalene-d8	5.73	136	3566874	40.00	ppm	0.00
47) Acenaphthene-d10	7.18	164	1837467	40.00	ppm	0.00
69) Phenanthrene-d10	9.09	188	2922932	40.00	ppm	0.00
83) Chrysene-d12	14.37	240	2635530	40.00	ppm	0.00
92) Perylene-d12	17.42	264	2390226	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.80	152	798072	40.00	ppm	0.00
104) Naphthalene-d8b	5.73	136	3566874	40.00	ppm	0.00
106) Acenaphthene-d10b	7.18	164	1837467	40.00	ppm	0.00
108) Phenanthrene-d10b	9.09	188	2922932	40.00	ppm	0.00
110) Chrysene-d12b	14.37	240	2635530	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.84	112	767257	27.34	ppm	0.01
Spiked Amount 50.000			Recovery = 54.68%			
8) Phenol-d5	4.56	99	666490	19.53	ppm	0.01
Spiked Amount 50.000			Recovery = 39.06%			
25) Nitrobenzene-d5	5.21	82	1443230	43.33	ppm	0.00
Spiked Amount 50.000			Recovery = 86.66%			
51) 2-Fluorobiphenyl	6.55	172	2409775	41.09	ppm	0.00
Spiked Amount 50.000			Recovery = 82.18%			
73) 2,4,6-Tribromophenol	8.08	330	285712	47.90	ppm	0.00
Spiked Amount 50.000			Recovery = 95.80%			
85) Terphenyl-d14	12.15	244	2237606	41.81	ppm	-0.02
Spiked Amount 50.000			Recovery = 83.62%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.39	88	265801	21.51	ppm		99
3) Pyridine	2.70	79	567196	19.48	ppm		98
4) N-Nitrosodimethylamine	2.67	42	313102	29.89	ppm		95
6) Indene	4.99	116	2108677	44.64	ppm		99
7) Cumene	4.21	105	2690425	42.40	ppm		92
9) Phenol	4.57	94	771116	21.22	ppm		88
10) Aniline	4.56	93	1020631	25.67	ppm		59
11) bis(2-Chloroethyl)ether	4.61	93	1151449	44.05	ppm		97
12) 2-Chlorophenol	4.66	128	1086794	36.68	ppm		97
13) Decane	4.68	43	704589	27.64	ppm		86
14) 1,3-Dichlorobenzene	4.76	146	1119259	34.06	ppm		99
15) 1,4-Dichlorobenzene	4.81	146	1179083	35.96	ppm		96
16) Benzyl alcohol	4.91	108	621094	32.87	ppm	#	73
17) 1,2-Dichlorobenzene	4.93	146	1103550	35.80	ppm		99
18) Acetophenone	5.10	105	1710619	47.89	ppm		97
19) 2-Methylphenol	5.00	108	945926	37.27	ppm		100
20) 2,2'-oxybis(1-Chloropropan	5.00	121	345291	36.65	ppm	#	31
21) 3&4-Methylphenol	5.11	108	927848	35.65	ppm		97
22) n-Nitroso-di-n-propylamine	5.10	70	958554	49.71	ppm		94
23) Hexachloroethane	5.17	201	344040	33.88	ppm		93
26) Nitrobenzene	5.22	77	1492383	42.78	ppm		83
27) Quinoline	5.99	129	2191957	31.80	ppm		97
28) Isophorone	5.40	82	2520424	42.30	ppm		98

(#) = qualifier out of range (m) = manual integration
F156756.D MF6563.M Wed May 04 09:34:18 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156756.D Vial: 6
Acq On : 3 May 2016 7:18 pm Operator: seanb1
Sample : op93555-bs1 Inst : MSF
Misc : op93555,ef6600,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 04 09:33:06 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 : Wed May 04 09:33:04 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.45	139	611207	33.77	ppm		81
30)	2,4-Dimethylphenol	5.49	107	1214783	42.61	ppm		98
31)	Benzoic acid	5.57	105	444285	18.64	ppm		95
32)	bis(2-Chloroethoxy)methane	5.55	93	1335603	35.57	ppm		97
33)	2,4-Dichlorophenol	5.64	162	920522	32.33	ppm		96
34)	2,6-Dichlorophenol	5.79	162	909519	33.26	ppm		98
36)	1,2,4-Trichlorobenzene	5.68	180	881322	29.94	ppm		97
38)	Naphthalene	5.74	128	3373233	34.63	ppm		98
39)	4-Chloroaniline	5.78	127	849841	21.13	ppm		95
40)	2,3-Dichloroaniline	6.48	161	1012401	30.53	ppm		95
41)	Caprolactam	6.04	55	110501	8.17	ppm		95
42)	Hexachlorobutadiene	5.83	225	421764	30.26	ppm		98
43)	4-Chloro-3-methylphenol	6.14	107	1037222	37.14	ppm		99
44)	2-Methylnaphthalene	6.26	141	1832884	33.37	ppm		95
45)	1-Methylnaphthalene	6.33	141	1936291	34.25	ppm		98
46)	Dimethylnaphthalene	6.77	156	1919489	33.51	ppm		97
48)	Hexachlorocyclopentadiene	6.37	237	789405	63.31	ppm		99
49)	2,4,6-Trichlorophenol	6.49	196	632054	40.54	ppm		99
50)	2,4,5-Trichlorophenol	6.53	196	641127	37.35	ppm		97
52)	2-Chloronaphthalene	6.65	162	1974013	37.18	ppm		92
53)	Biphenyl	6.63	154	2640572	38.73	ppm		99
54)	2-Nitroaniline	6.74	65	778255	51.72	ppm		83
55)	Dimethylphthalate	6.90	163	2382971	40.11	ppm		99
56)	Acenaphthylene	7.04	152	3177258	36.92	ppm		98
57)	2,6-Dinitrotoluene	6.96	165	524422	40.83	ppm		87
58)	3-Nitroaniline	7.13	138	397797	24.74	ppm		82
59)	Acenaphthene	7.21	153	2081809	38.51	ppm		94
60)	2,4-Dinitrophenol	7.24	184	628137	83.51	ppm	#	48
61)	4-Nitrophenol	7.34	109	223014	29.53	ppm	#	49
62)	Dibenzofuran	7.39	168	2846736	38.59	ppm		99
63)	2,4-Dinitrotoluene	7.37	165	720729	41.41	ppm		90
64)	2,3,4,6-Tetrachlorophenol	7.53	232	492842	38.07	ppm		91
65)	Diethylphthalate	7.64	149	2398962	40.85	ppm		99
66)	Fluorene	7.78	166	2336176	41.15	ppm		98
67)	4-Chlorophenyl-phenylether	7.78	204	990209	39.58	ppm		95
68)	4-Nitroaniline	7.81	138	552265	34.01	ppm		95
70)	4,6-Dinitro-2-methylphenol	7.84	198	417364	45.20	ppm		83
71)	n-Nitrosodiphenylamine	7.93	169	1508751	36.07	ppm		97
72)	1,2-Diphenylhydrazine	7.98	77	2812939	48.65	ppm		91
74)	4-Bromophenyl-phenylether	8.42	248	572355	40.71	ppm		89
75)	Hexachlorobenzene	8.51	284	585406	43.62	ppm		97
76)	Pentachlorophenol	8.80	266	370622	41.92	ppm		98
77)	Phenanthrene	9.13	178	3292289	39.15	ppm		97
78)	Anthracene	9.21	178	3168886	37.65	ppm		99
79)	Carbazole	9.49	167	3121503	39.56	ppm		99
80)	Di-n-butylphthalate	10.18	149	4043955	41.03	ppm		98
81)	Fluoranthene	11.28	202	3315803	39.76	ppm		97
82)	Octadecane	8.97	57	1211778	35.42	ppm		88
84)	Pyrene	11.72	202	3545879	37.94	ppm		96

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

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156756.D Vial: 6
Acq On : 3 May 2016 7:18 pm Operator: seanb1
Sample : op93555-bs1 Inst : MSF
Misc : op93555,ef6600,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 04 09:33:06 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 : Wed May 04 09:33:04 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

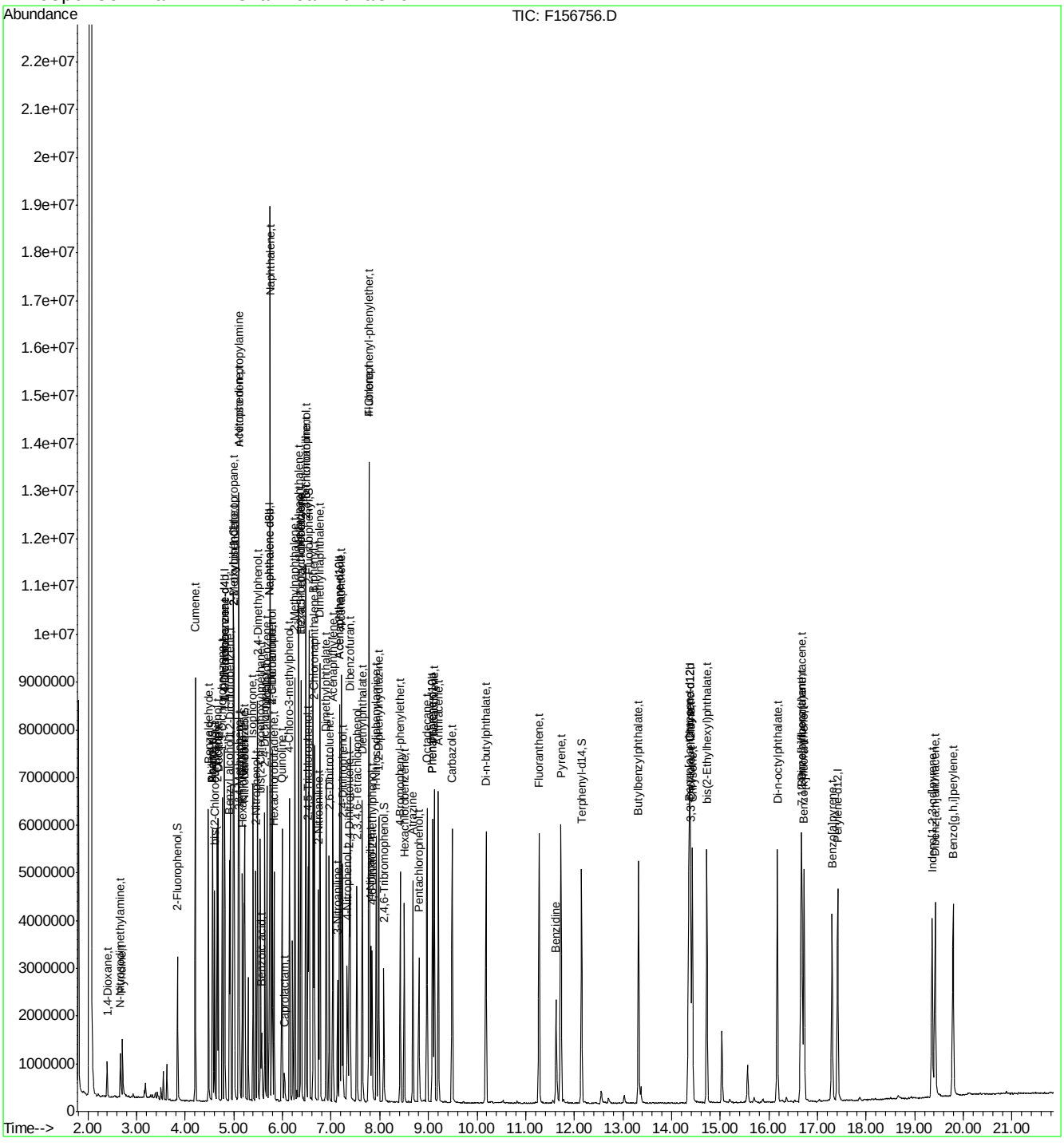
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.32	149	1713081	37.32	ppm	87
88)	Benzo[a]anthracene	14.35	228	2961389	37.10	ppm	99
89)	3,3'-Dichlorobenzidine	14.39	252	1223947	44.01	ppm	98
90)	Chrysene	14.43	228	2952823	37.21	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.72	149	2388685	37.54	ppm	94
93)	Di-n-octylphthalate	16.17	149	4005445	38.24	ppm	99
94)	Benzo[b]fluoranthene	16.66	252	3007435	40.71	ppm	98
95)	Benzo[k]fluoranthene	16.72	252	2945463	40.74	ppm	97
96)	Benzo[a]pyrene	17.30	252	2481576	36.70	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.36	276	2465241	39.51	ppm	95
99)	Dibenz[a,h]anthracene	19.42	278	2574593	42.65	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.68	256	1153031	39.97	ppm	96
101)	Benzo[g,h,i]perylene	19.79	276	2666040	39.54	ppm	98
103)	Benzaldehyde	4.48	105	954271	42.46	ppm	97
107)	1,2,4,5-Tetrachlorobenzene	6.38	216	889915	34.81	ppm	99
109)	Atrazine	8.68	200	611211	43.50	ppm	98
111)	Benzidine	11.62	184	1242339	27.12	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156756.D MF6563.M Wed May 04 09:34:18 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156756.D Vial: 6
Acq On : 3 May 2016 7:18 pm Operator: seanb1
Sample : op93555-bs1 Inst : MSF
Misc : op93555,ef6600,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 9:34 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 May 04 09:33:04 2016
Response via : Initial Calibration



SGS ACCUTEST JC19473

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 JC19473

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 JC19473

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

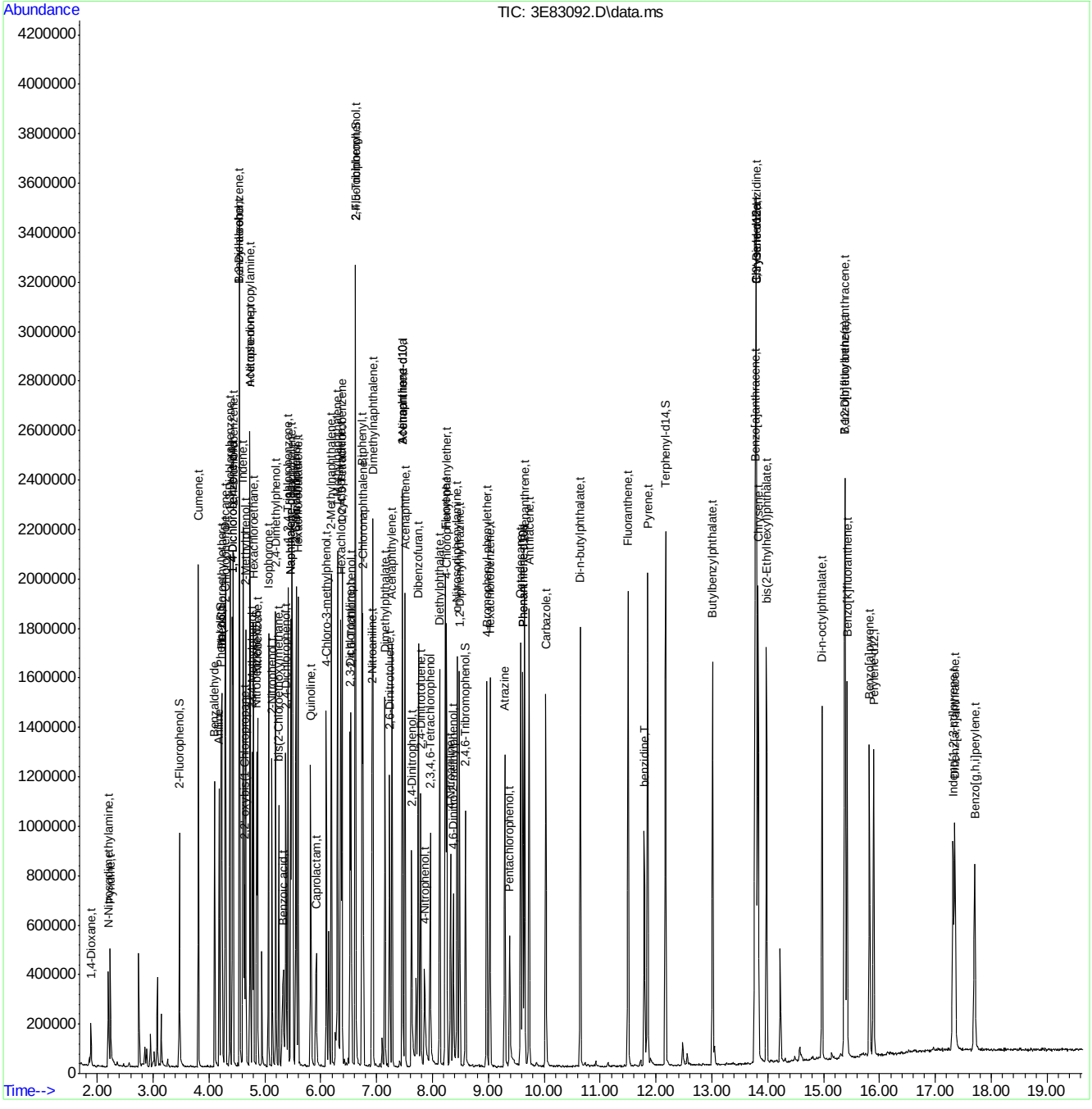
7

SGS ACCUTEST JC19473

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 JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61047.D
Acq On : 4 May 2016 10:28 am
Operator : linseyk
Sample : op93555a-bs12
Misc : op93555a,e3m2870,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 04 12:49:31 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	338229	4.00	ppm	-0.13
14) Fluorene-d10	13.467	176	494139	4.00	ppm	-0.18
21) Fluoranthene-d10	17.685	212	787725	4.00	ppm	-0.17
31) Benzo(a)pyrene-d12	22.289	264	621947	4.00	ppm	-0.16
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	1391981	32.89	ppm	-0.09
Spiked Amount 50.000			Recovery = 65.78%			
4) Phenol-d5	6.000	99	1470381	21.00	ppm	-0.09
Spiked Amount 50.000			Recovery = 42.00%			
7) Nitrobenzene-d5	7.587	82	2795107	42.93	ppm	-0.12
Spiked Amount 50.000			Recovery = 85.86%			
15) 2-Fluorobiphenyl	11.160	172	7009246	51.62	ppm	-0.14
Spiked Amount 50.000			Recovery = 103.24%			
20) 2,4,6-Tribromophenol	14.014	330	785845	50.81	ppm	-0.16
Spiked Amount 50.000			Recovery = 101.62%			
28) Terphenyl-d14	18.504	244	6469697	56.62	ppm	-0.16
Spiked Amount 50.000			Recovery = 113.24%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	12366	0.71	ppm	67
5) Phenol	6.024	94	199653	2.65	ppm #	75
6) bis(2-Chloroethyl)ether	6.157	93	56644	0.99	ppm #	52
8) Nitrobenzene	7.625	77	62442	0.88	ppm	95
9) Naphthalene	8.981	128	203435	1.08	ppm	93
10) Hexachlorobutadiene	9.282	225	31489	0.96	ppm	68
11) 2-Methylnaphthalene	10.365	141	96031	0.98	ppm	99
13) Hexachlorocyclopentadiene	10.693	237	21450	0.82	ppm	96
16) Acenaphthylene	12.134	152	173646	1.01	ppm	99
17) Acenaphthene	12.490	153	123552	1.08	ppm	96
18) 4,6-dinitro-2-methylph...	13.694	198	99828	5.99	ppm	55
19) Fluorene	13.524	166	151293	1.10	ppm	92
22) Hexachlorobenzene	14.609	284	38426	1.03	ppm	81
23) Pentachlorophenol	15.042	266	145386	5.62	ppm	93
24) Phenanthrene	15.428	178	201924	1.05	ppm #	57
25) Anthracene	15.537	178	180839	1.06	ppm	93
26) Fluoranthene	17.716	202	220535	0.91	ppm	99
27) Pyrene	18.102	202	222731	0.99	ppm	98
29) Benzo[a]anthracene	20.188	228	167094	0.77	ppm	97
30) Chrysene	20.250	228	180052	0.87	ppm	98
32) Benzo[b]fluoranthene	21.857	252	137993	0.67	ppm	97
33) Benzo[k]fluoranthene	21.903	252	148375	0.77	ppm	99
34) Benzo[a]pyrene	22.305	252	133451	0.69	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.787	276	106324	0.54	ppm	92
36) Dibenz[a,h]anthracene	23.824	278	92702	0.57	ppm	100
37) Benzo[g,h,i]perylene	24.144	276	93003	0.55	ppm	98

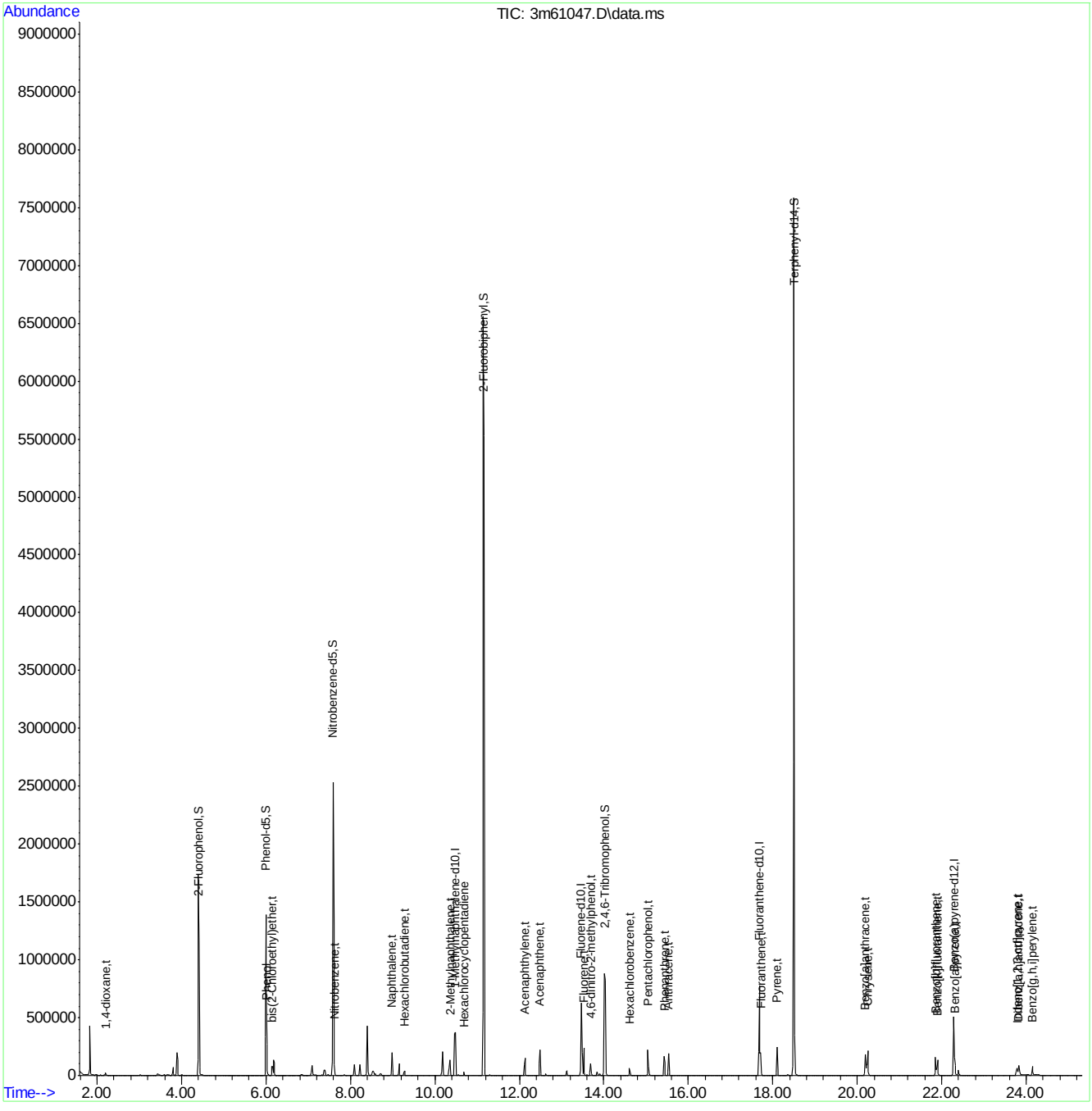
(#) = qualifier out of range (m) = manual integration (+) = signals summed

M3M2855SIM.M Wed May 04 12:49:41 2016 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61047.D
Acq On : 4 May 2016 10:28 am
Operator : linseyk
Sample : op93555a-bs12
Misc : op93555a,e3m2870,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 04 12:49:31 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 JC19473

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

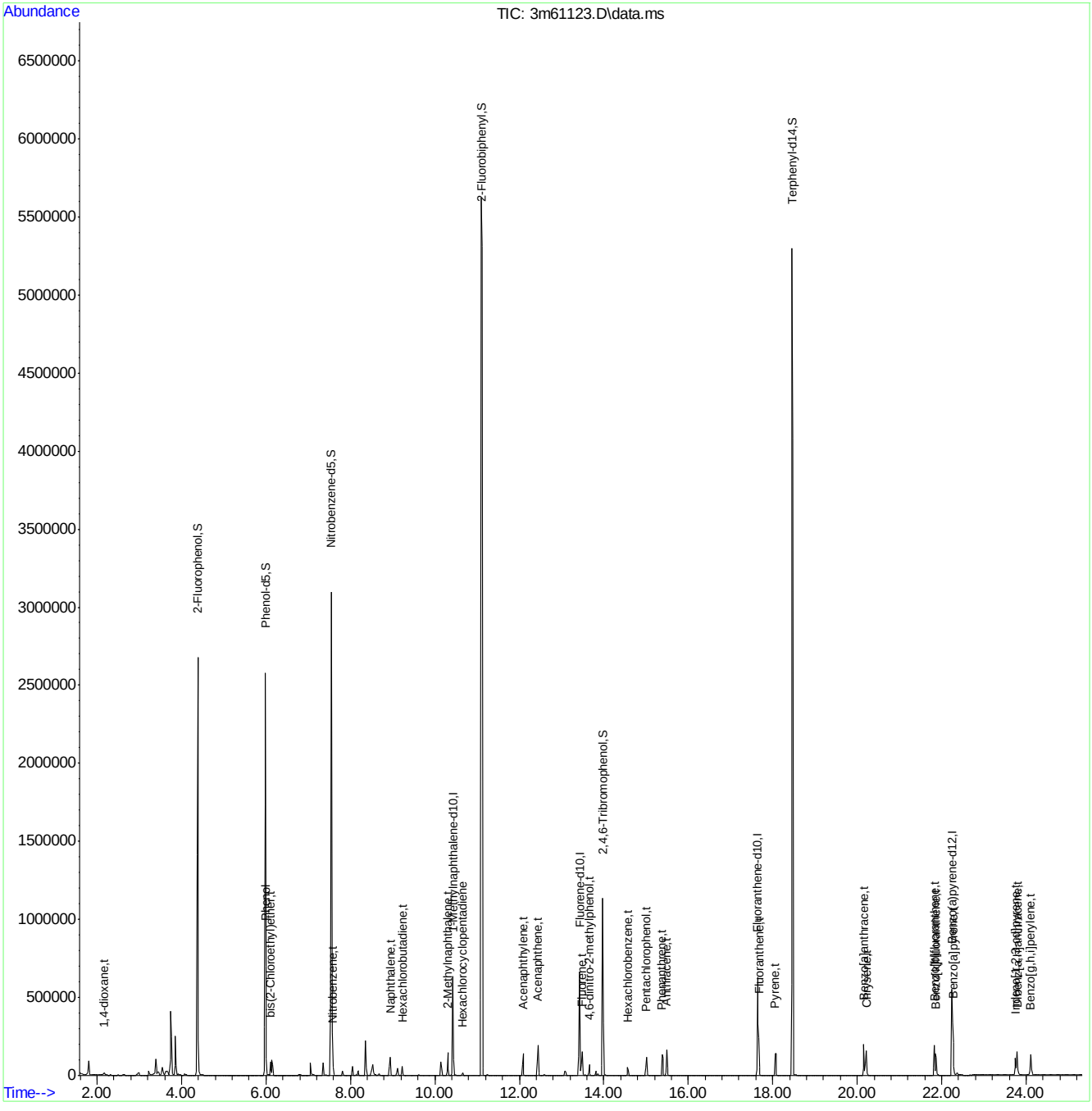
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/06/16 09:59

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156775.D Vial: 25
Acq On : 4 May 2016 4:28 am Operator: seanb1
Sample : op93555-ms Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 04 12:15:45 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 : Wed May 04 12:15:43 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	756568	40.00	ppm	0.00
24) Naphthalene-d8	5.73	136	3345517	40.00	ppm	0.00
47) Acenaphthene-d10	7.18	164	1682014	40.00	ppm	0.00
69) Phenanthrene-d10	9.09	188	2600023	40.00	ppm	0.00
83) Chrysene-d12	14.37	240	2180312	40.00	ppm	0.00
92) Perylene-d12	17.42	264	1978689	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.80	152	756568	40.00	ppm	0.00
104) Naphthalene-d8b	5.73	136	3345517	40.00	ppm	0.00
106) Acenaphthene-d10b	7.18	164	1682014	40.00	ppm	0.00
108) Phenanthrene-d10b	9.09	188	2600023	40.00	ppm	0.00
110) Chrysene-d12b	14.37	240	2180312	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.84	112	962310	36.17	ppm	0.01
Spiked Amount 50.000			Recovery = 72.34%			
8) Phenol-d5	4.56	99	1016386	31.41	ppm	0.01
Spiked Amount 50.000			Recovery = 62.82%			
25) Nitrobenzene-d5	5.21	82	1358022	43.47	ppm	0.00
Spiked Amount 50.000			Recovery = 86.94%			
51) 2-Fluorobiphenyl	6.54	172	2189699	40.79	ppm	0.00
Spiked Amount 50.000			Recovery = 81.58%			
73) 2,4,6-Tribromophenol	8.08	330	260023	49.01	ppm	0.00
Spiked Amount 50.000			Recovery = 98.02%			
85) Terphenyl-d14	12.15	244	1920586	43.37	ppm	-0.02
Spiked Amount 50.000			Recovery = 86.74%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.40	88	359740	30.71	ppm		99
3) Pyridine	2.71	79	583158	21.13	ppm		98
4) N-Nitrosodimethylamine	2.67	42	418025	42.10	ppm		98
6) Indene	4.99	116	2051392	45.81	ppm		93
7) Cumene	4.21	105	3775776	62.78	ppm		95
9) Phenol	4.57	94	1106364	32.12	ppm		85
10) Aniline	4.56	93	977867	25.94	ppm	#	51
11) bis(2-Chloroethyl)ether	4.61	93	1055630	42.60	ppm		93
12) 2-Chlorophenol	4.66	128	1039962	37.03	ppm		92
13) Decane	4.68	43	819028	33.89	ppm		92
14) 1,3-Dichlorobenzene	4.76	146	1067622	34.27	ppm		99
15) 1,4-Dichlorobenzene	4.82	146	1107594	35.63	ppm		100
16) Benzyl alcohol	4.91	108	722888	40.36	ppm	#	65
17) 1,2-Dichlorobenzene	4.93	146	1042963	35.69	ppm		97
18) Acetophenone	5.09	105	4001890	118.19	ppm	#	27
19) 2-Methylphenol	5.01	108	996689	41.43	ppm		95
20) 2,2'-oxybis(1-Chloropropan	5.00	121	339320	37.99	ppm	#	34
21) 3&4-Methylphenol	5.11	108	1012252	41.03	ppm		98
22) n-Nitroso-di-n-propylamine	5.10	70	879627	48.12	ppm		97
23) Hexachloroethane	5.18	201	340136	35.33	ppm	#	26
26) Nitrobenzene	5.23	77	1678075	51.29	ppm		82
27) Quinoline	5.99	129	2414299	37.34	ppm		97
28) Isophorone	5.40	82	2285478	40.90	ppm		97

(#) = qualifier out of range (m) = manual integration
F156775.D MF6563.M Wed May 04 12:17:57 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156775.D Vial: 25
Acq On : 4 May 2016 4:28 am Operator: seanb1
Sample : op93555-ms Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 04 12:15:45 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 : Wed May 04 12:15:43 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.46	139	568586	33.50	ppm	#	62
30)	2,4-Dimethylphenol	5.49	107	1164218	43.54	ppm		98
31)	Benzoic acid	5.59	105	1488988m	66.61	ppm		
32)	bis(2-Chloroethoxy)methane	5.55	93	1338552	38.00	ppm		96
33)	2,4-Dichlorophenol	5.64	162	867250	32.48	ppm		94
34)	2,6-Dichlorophenol	5.79	162	828256	32.29	ppm		95
36)	1,2,4-Trichlorobenzene	5.68	180	831933	30.13	ppm		96
38)	Naphthalene	5.74	128	7947544	87.00	ppm		86
39)	4-Chloroaniline	5.79	127	568938	15.08	ppm		88
40)	2,3-Dichloroaniline	6.48	161	848319	27.27	ppm		93
41)	Caprolactam	6.05	55	185745	14.64	ppm		87
42)	Hexachlorobutadiene	5.83	225	420295	32.15	ppm		99
43)	4-Chloro-3-methylphenol	6.15	107	973642	37.17	ppm		98
44)	2-Methylnaphthalene	6.26	141	4974841	96.56	ppm		92
45)	1-Methylnaphthalene	6.33	141	3334883	62.89	ppm		96
46)	Dimethylnaphthalene	6.77	156	1933281	35.99	ppm		100
48)	Hexachlorocyclopentadiene	6.38	237	732204	64.15	ppm		99
49)	2,4,6-Trichlorophenol	6.49	196	568868	39.86	ppm		98
50)	2,4,5-Trichlorophenol	6.53	196	581497	37.00	ppm		100
52)	2-Chloronaphthalene	6.66	162	1825695	37.56	ppm		96
53)	Biphenyl	6.63	154	2483822	39.80	ppm		99
54)	2-Nitroaniline	6.75	65	698075	50.68	ppm		89
55)	Dimethylphthalate	6.90	163	2166777	39.84	ppm		98
56)	Acenaphthylene	7.04	152	2867355	36.40	ppm		98
57)	2,6-Dinitrotoluene	6.96	165	475020	40.41	ppm		84
58)	3-Nitroaniline	7.13	138	264048	17.94	ppm		80
59)	Acenaphthene	7.21	153	1929910	39.00	ppm		93
60)	2,4-Dinitrophenol	7.24	184	523316	76.23	ppm	#	50
61)	4-Nitrophenol	7.34	109	288750	41.77	ppm	#	83
62)	Dibenzofuran	7.39	168	2509245	37.16	ppm		96
63)	2,4-Dinitrotoluene	7.37	165	639136	40.12	ppm		93
64)	2,3,4,6-Tetrachlorophenol	7.53	232	455047	38.40	ppm		90
65)	Diethylphthalate	7.64	149	2156667	40.12	ppm		98
66)	Fluorene	7.78	166	2095576	40.32	ppm		98
67)	4-Chlorophenyl-phenylether	7.78	204	916968	40.04	ppm		95
68)	4-Nitroaniline	7.81	138	448459	30.17	ppm		97
70)	4,6-Dinitro-2-methylphenol	7.85	198	347735	42.34	ppm		95
71)	n-Nitrosodiphenylamine	7.93	169	1365421	36.69	ppm		98
72)	1,2-Diphenylhydrazine	7.98	77	2462941	47.89	ppm		90
74)	4-Bromophenyl-phenylether	8.43	248	501342	40.08	ppm		96
75)	Hexachlorobenzene	8.51	284	504039	42.22	ppm		97
76)	Pentachlorophenol	8.80	266	337868	42.96	ppm		98
77)	Phenanthrene	9.13	178	2900642	38.78	ppm		98
78)	Anthracene	9.21	178	2758555	36.84	ppm		98
79)	Carbazole	9.49	167	2668698	38.02	ppm		99
80)	Di-n-butylphthalate	10.18	149	3562773	40.64	ppm		98
81)	Fluoranthene	11.28	202	2876514	38.78	ppm		96
82)	Octadecane	8.97	57	1179310	38.75	ppm		92
84)	Pyrene	11.72	202	2962159	38.31	ppm		96

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

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156775.D Vial: 25
Acq On : 4 May 2016 4:28 am Operator: seanb1
Sample : op93555-ms Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 04 12:15:45 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 : Wed May 04 12:15:43 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
86)	Butylbenzylphthalate	13.32	149	1475102	38.84	ppm		89
88)	Benzo[a]anthracene	14.36	228	2536387	38.41	ppm		98
89)	3,3'-Dichlorobenzidine	14.40	252	1278012	55.55	ppm		96
90)	Chrysene	14.43	228	2461775	37.50	ppm		98
91)	bis(2-Ethylhexyl)phthalate	14.72	149	2084733	39.61	ppm		95
93)	Di-n-octylphthalate	16.17	149	3520243	40.60	ppm		98
94)	Benzo[b]fluoranthene	16.66	252	2459975	40.23	ppm		96
95)	Benzo[k]fluoranthene	16.72	252	2437859	40.73	ppm		96
96)	Benzo[a]pyrene	17.30	252	2117164	37.82	ppm		99
97)	Indeno[1,2,3-cd]pyrene	19.36	276	2033368	39.37	ppm		95
99)	Dibenz[a,h]anthracene	19.42	278	2028039	40.58	ppm		99
100)	7,12-Dimethylbenz(a)anthra	16.68	256	1082260	45.32	ppm		98
101)	Benzo[g,h,i]perylene	19.79	276	2188147	39.20	ppm		98
103)	Benzaldehyde	4.48	105	4099859	192.43	ppm	#	30
107)	1,2,4,5-Tetrachlorobenzene	6.39	216	864348	36.94	ppm		97
109)	Atrazine	8.68	200	543406	43.48	ppm		99
111)	Benzidine	11.63	184	92628	2.44	ppm		92

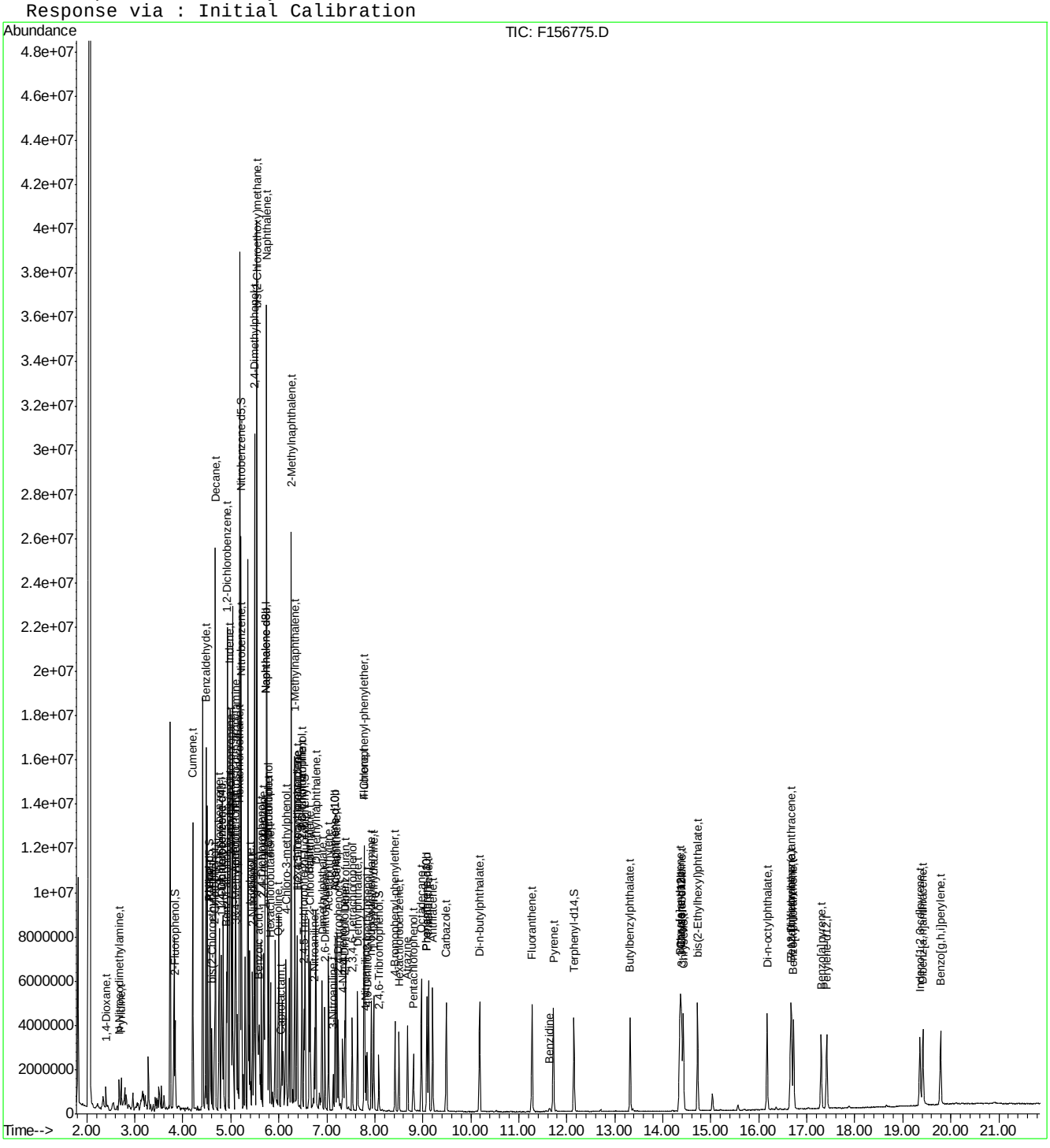
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156775.D Vial: 25
Acq On : 4 May 2016 4:28 am Operator: seanb1
Sample : op93555-ms Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 12:17 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 May 04 12:15:43 2016
Response via : Initial Calibration



Manual Integration Approval Summary

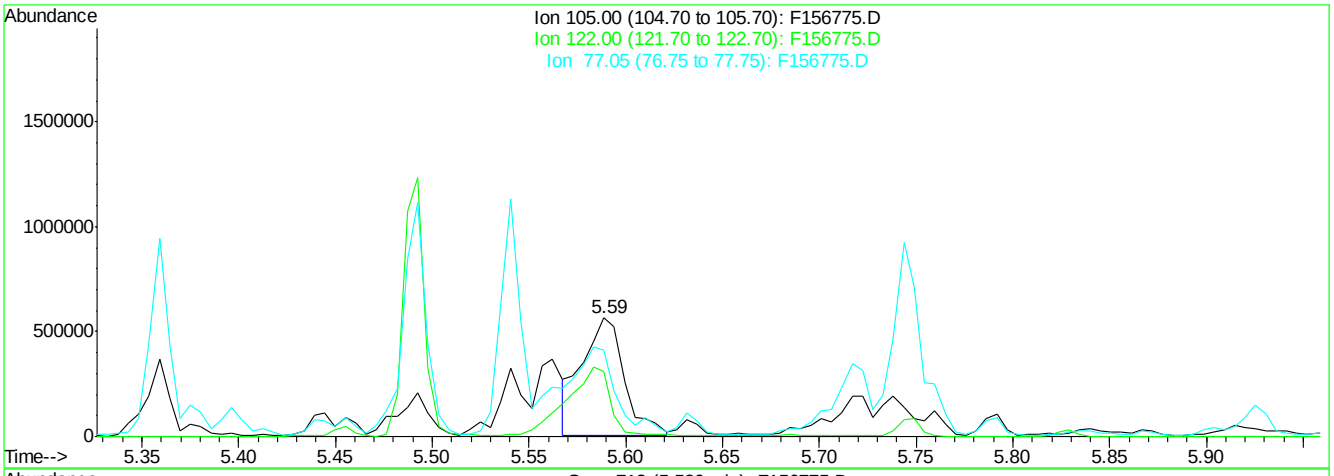
Sample Number:	OP93555-MS	**Method:**	SW846 8270D
Lab FileID:	F156775.D	**Analyst approved:**	05/04/16 12:19 Linsey Kirschmann
Injection Time:	05/04/16 04:28	**Supervisor approved:**	05/06/16 09:59 Nina Pandya

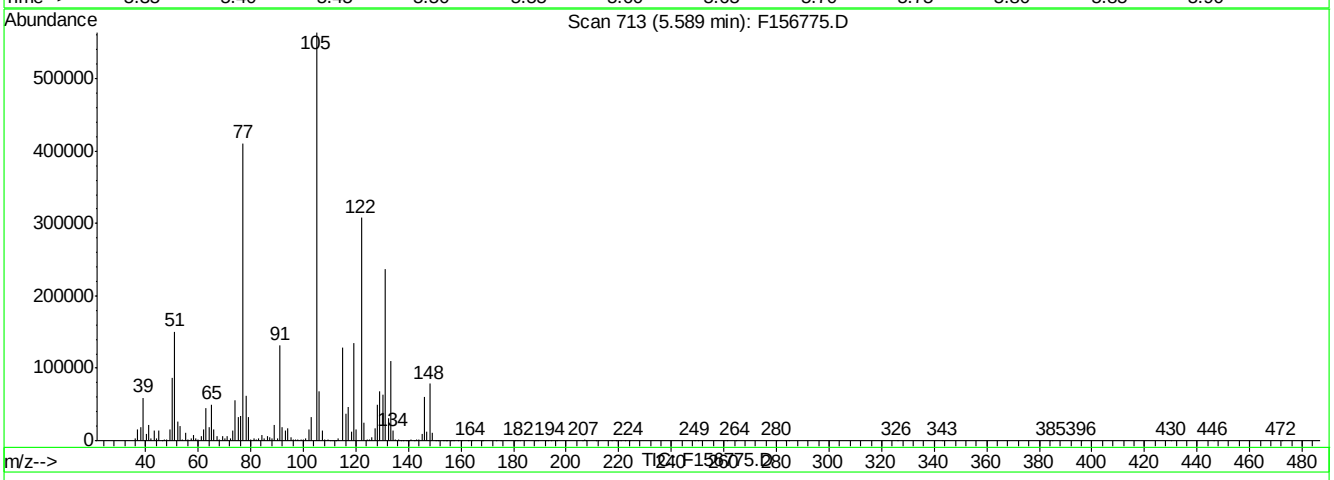
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.59	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156775.D Vial: 25
Acq On : 4 May 2016 4:28 am Operator: seanb1
Sample : op93555-ms Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 12:16 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 04 12:15:43 2016
Response via : Multiple Level Calibration





(31) Benzoic acid (t)

5.59min 37.97ppm

response 848801

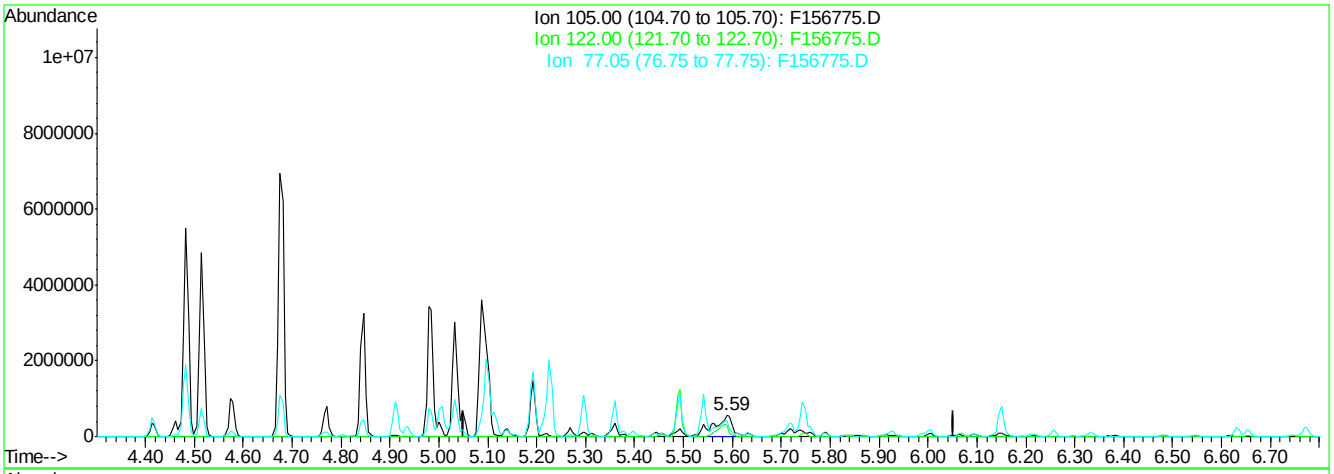
Ion	Exp%	Act%
105.00	100	100
122.00	79.10	54.29
77.05	81.30	68.11
0.00	0.00	0.00

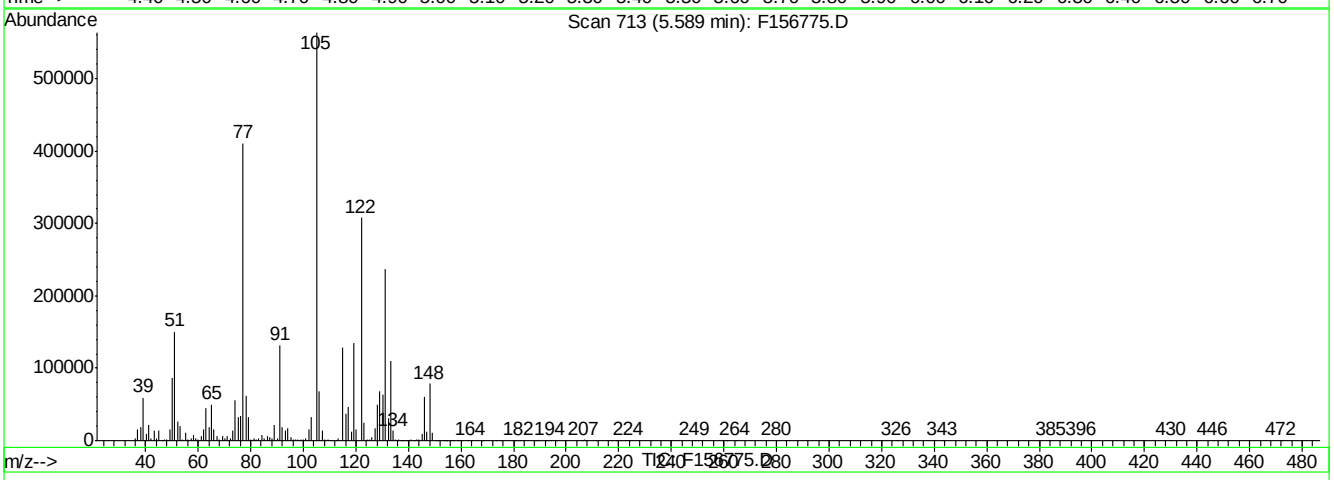
F156775.D MF6563.M Wed May 04 12:17:48 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156775.D Vial: 25
Acq On : 4 May 2016 4:28 am Operator: seanb1
Sample : op93555-ms Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 12:17 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 04 12:15:43 2016
Response via : Multiple Level Calibration





(31) Benzoic acid (t)

5.59min 66.61ppm m

response 1488988

Ion	Exp%	Act%
105.00	100	100
122.00	79.10	54.61
77.05	81.30	72.87
0.00	0.00	0.00

F156775.D MF6563.M Wed May 04 12:17:53 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/06/16 09:59

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156776.D Vial: 26
Acq On : 4 May 2016 4:56 am Operator: seanb1
Sample : op93555-msd Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 04 05:18:58 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 May 03 09:37:34 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	751231	40.00	ppm	0.00
24) Naphthalene-d8	5.73	136	3438088	40.00	ppm	0.00
47) Acenaphthene-d10	7.18	164	1676186	40.00	ppm	0.00
69) Phenanthrene-d10	9.09	188	2641908	40.00	ppm	0.00
83) Chrysene-d12	14.38	240	2196539	40.00	ppm	0.00
92) Perylene-d12	17.42	264	1978808	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.80	152	751231	40.00	ppm	0.00
104) Naphthalene-d8b	5.73	136	3438088	40.00	ppm	0.00
106) Acenaphthene-d10b	7.18	164	1676186	40.00	ppm	0.00
108) Phenanthrene-d10b	9.09	188	2641908	40.00	ppm	0.00
110) Chrysene-d12b	14.38	240	2196539	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.84	112	1226977	46.44	ppm	0.01
Spiked Amount 50.000			Recovery = 92.88%			
8) Phenol-d5	4.56	99	1272004	39.59	ppm	0.01
Spiked Amount 50.000			Recovery = 79.18%			
25) Nitrobenzene-d5	5.21	82	1689821	52.63	ppm	0.00
Spiked Amount 50.000			Recovery = 105.26%			
51) 2-Fluorobiphenyl	6.54	172	2655735	49.64	ppm	0.00
Spiked Amount 50.000			Recovery = 99.28%			
73) 2,4,6-Tribromophenol	8.09	330	327584	60.76	ppm	0.00
Spiked Amount 50.000			Recovery = 121.52%			
85) Terphenyl-d14	12.15	244	2417255	54.19	ppm	-0.02
Spiked Amount 50.000			Recovery = 108.38%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.40	88	435241	37.42	ppm		96
3) Pyridine	2.71	79	893960	32.62	ppm		96
4) N-Nitrosodimethylamine	2.67	42	511410	51.87	ppm		98
6) Indene	4.99	116	2496095	56.14	ppm		96
7) Cumene	4.21	105	4426604	74.12	ppm		94
9) Phenol	4.57	94	1420887	41.55	ppm		83
10) Aniline	4.56	93	1344965	35.94	ppm		57
11) bis(2-Chloroethyl)ether	4.61	93	1316417	53.50	ppm		98
12) 2-Chlorophenol	4.66	128	1336104	47.91	ppm		92
13) Decane	4.68	43	1019825	42.50	ppm		92
14) 1,3-Dichlorobenzene	4.76	146	1314331	42.49	ppm		99
15) 1,4-Dichlorobenzene	4.82	146	1358547	44.02	ppm		99
16) Benzyl alcohol	4.92	108	872219	49.04	ppm		83
17) 1,2-Dichlorobenzene	4.93	146	1288770	44.42	ppm		97
18) Acetophenone	5.09	105	4686484	139.39	ppm	#	26
19) 2-Methylphenol	5.01	108	1238964	51.87	ppm		99
20) 2,2'-oxybis(1-Chloropropan	5.01	121	424642	47.88	ppm	#	19
21) 3&4-Methylphenol	5.11	108	1256782	51.30	ppm		96
22) n-Nitroso-di-n-propylamine	5.10	70	1087500	59.91	ppm		96
23) Hexachloroethane	5.18	201	400861	41.93	ppm		99
26) Nitrobenzene	5.23	77	2075441	61.72	ppm		81
27) Quinoline	5.99	129	2879411	43.33	ppm		96
28) Isophorone	5.40	82	2820423	49.11	ppm		96

(#) = qualifier out of range (m) = manual integration
F156776.D MF6563.M Wed May 04 12:18:56 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156776.D Vial: 26
Acq On : 4 May 2016 4:56 am Operator: seanb1
Sample : op93555-msd Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 04 05:18:58 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 May 03 09:37:34 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2-Nitrophenol	5.46	139	707160	40.54	ppm	92
30) 2,4-Dimethylphenol	5.49	107	1463009	53.24	ppm	99
31) Benzoic acid	5.59	105	1747353m	76.06	ppm	
32) bis(2-Chloroethoxy)methane	5.55	93	1656326	45.76	ppm	95
33) 2,4-Dichlorophenol	5.64	162	1056366	38.49	ppm	93
34) 2,6-Dichlorophenol	5.79	162	1031884	39.15	ppm	97
36) 1,2,4-Trichlorobenzene	5.68	180	1016875	35.84	ppm	96
38) Naphthalene	5.74	128	8280659	88.20	ppm	81
39) 4-Chloroaniline	5.79	127	787639	20.32	ppm	90
40) 2,3-Dichloroaniline	6.48	161	1025204	32.07	ppm	94
41) Caprolactam	6.05	55	230721	17.69	ppm	86
42) Hexachlorobutadiene	5.83	225	521508	38.82	ppm	99
43) 4-Chloro-3-methylphenol	6.15	107	1204007	44.73	ppm	98
44) 2-Methylnaphthalene	6.26	141	5724729	108.13	ppm	90
45) 1-Methylnaphthalene	6.34	141	3847289	70.60	ppm	98
46) Dimethylnaphthalene	6.77	156	2296901	41.60	ppm	99
48) Hexachlorocyclopentadiene	6.38	237	824910	72.53	ppm	97
49) 2,4,6-Trichlorophenol	6.49	196	709700	49.90	ppm	99
50) 2,4,5-Trichlorophenol	6.53	196	721072	46.04	ppm	98
52) 2-Chloronaphthalene	6.66	162	2226107	45.96	ppm	95
53) Biphenyl	6.64	154	2940562	47.28	ppm	100
54) 2-Nitroaniline	6.75	65	825065	60.11	ppm	92
55) Dimethylphthalate	6.90	163	2642523	48.75	ppm	98
56) Acenaphthylene	7.04	152	3512697	44.74	ppm	99
57) 2,6-Dinitrotoluene	6.96	165	584183	49.86	ppm	84
58) 3-Nitroaniline	7.13	138	309590	21.11	ppm	79
59) Acenaphthene	7.21	153	2332978	47.31	ppm	92
60) 2,4-Dinitrophenol	7.24	184	659940	95.80	ppm	84
61) 4-Nitrophenol	7.34	109	373113	54.16	ppm	92
62) Dibenzofuran	7.39	168	3073153	45.67	ppm	95
63) 2,4-Dinitrotoluene	7.37	165	799369	50.35	ppm	88
64) 2,3,4,6-Tetrachlorophenol	7.53	232	551384	46.69	ppm	94
65) Diethylphthalate	7.65	149	2669932	49.84	ppm	99
66) Fluorene	7.78	166	2599092	50.19	ppm	100
67) 4-Chlorophenyl-phenylether	7.78	204	1127751	49.42	ppm	95
68) 4-Nitroaniline	7.82	138	553812	37.39	ppm	99
70) 4,6-Dinitro-2-methylphenol	7.85	198	452294	54.20	ppm	90
71) n-Nitrosodiphenylamine	7.93	169	1679391	44.42	ppm	97
72) 1,2-Diphenylhydrazine	7.98	77	3093423	59.20	ppm	93
74) 4-Bromophenyl-phenylether	8.43	248	615870	48.46	ppm	95
75) Hexachlorobenzene	8.51	284	630612	51.99	ppm	97
76) Pentachlorophenol	8.80	266	428742	53.65	ppm	95
77) Phenanthrene	9.13	178	3589509	47.23	ppm	99
78) Anthracene	9.21	178	3438676	45.20	ppm	100
79) Carbazole	9.49	167	3238271	45.40	ppm	98
80) Di-n-butylphthalate	10.18	149	4522267	50.76	ppm	99
81) Fluoranthene	11.28	202	3550194	47.10	ppm	98
82) Octadecane	8.97	57	1400655	45.29	ppm	89
84) Pyrene	11.73	202	3762270	48.29	ppm	96

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

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156776.D Vial: 26
Acq On : 4 May 2016 4:56 am Operator: seanb1
Sample : op93555-msd Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 04 05:18:58 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 May 03 09:37:34 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
86)	Butylbenzylphthalate	13.32	149	1856136	48.51	ppm		87
88)	Benzo[a]anthracene	14.36	228	3081919	46.32	ppm		100
89)	3,3'-Dichlorobenzidine	14.40	252	1661377	71.69	ppm		97
90)	Chrysene	14.43	228	3058201	46.24	ppm		99
91)	bis(2-Ethylhexyl)phthalate	14.72	149	2600590	49.04	ppm		94
93)	Di-n-octylphthalate	16.18	149	4322157	49.85	ppm		98
94)	Benzo[b]fluoranthene	16.66	252	3102938	50.74	ppm		97
95)	Benzo[k]fluoranthene	16.73	252	2977331	49.74	ppm		98
96)	Benzo[a]pyrene	17.30	252	2622558	46.85	ppm		99
97)	Indeno[1,2,3-cd]pyrene	19.36	276	2563810	49.63	ppm		99
99)	Dibenz[a,h]anthracene	19.42	278	2624845	52.52	ppm		98
100)	7,12-Dimethylbenz(a)anthra	16.68	256	1306555	54.71	ppm		97
101)	Benzo[g,h,i]perylene	19.79	276	2808357	50.31	ppm		98
103)	Benzaldehyde	4.48	105	4598138	217.35	ppm	#	31
107)	1,2,4,5-Tetrachlorobenzene	6.39	216	1048022	44.94	ppm		99
109)	Atrazine	8.69	200	655677	51.63	ppm		99
111)	Benzidine	11.63	184	534983	14.01	ppm		96

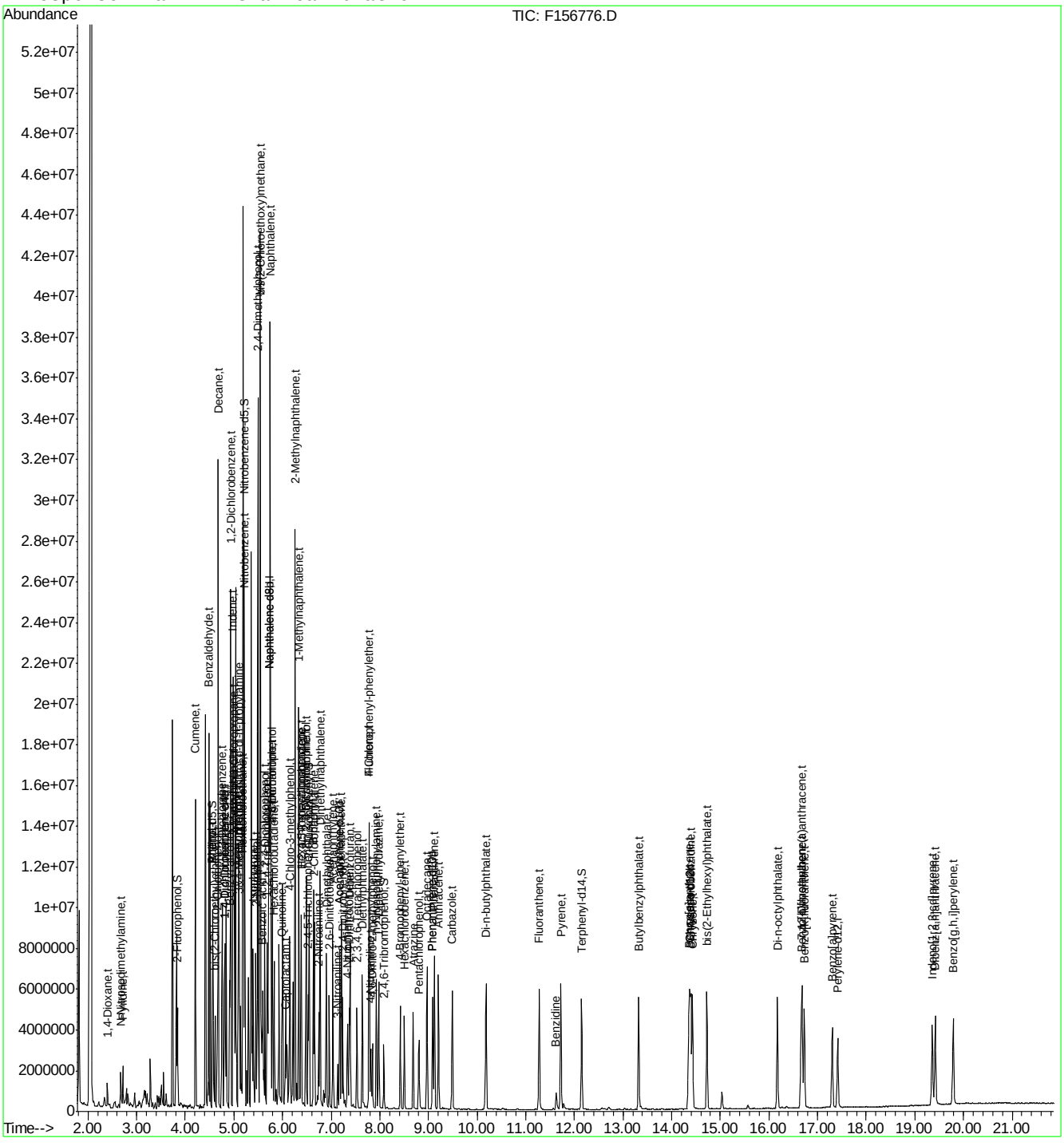
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156776.D Vial: 26
Acq On : 4 May 2016 4:56 am Operator: seanb1
Sample : op93555-msd Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 12:18 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 May 04 12:15:43 2016
Response via : Initial Calibration



Manual Integration Approval Summary

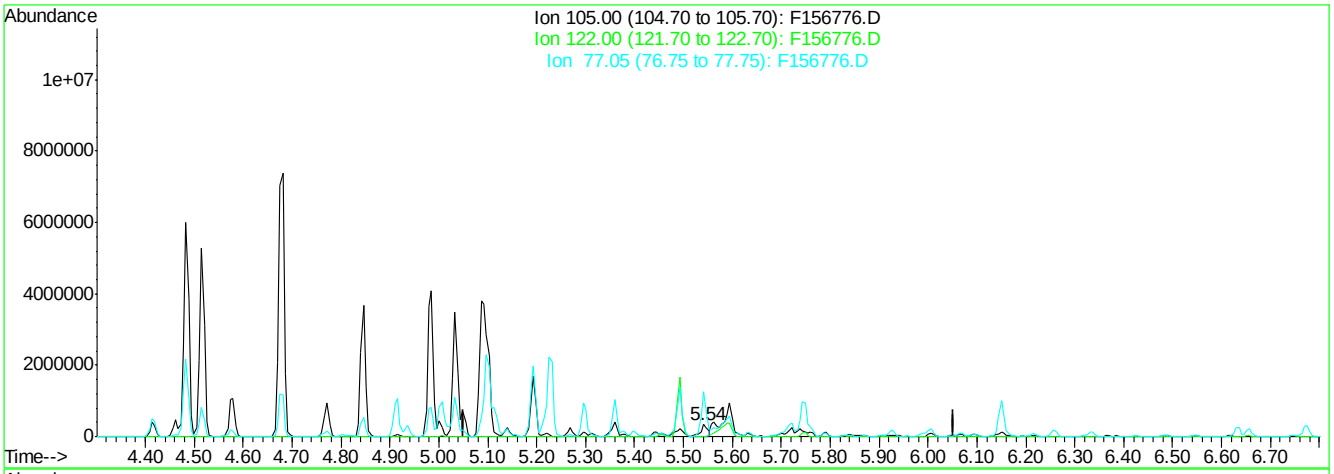
Sample Number:	OP93555-MSD	**Method:**	SW846 8270D
Lab FileID:	F156776.D	**Analyst approved:**	05/04/16 12:19 Linsey Kirschmann
Injection Time:	05/04/16 04:56	**Supervisor approved:**	05/06/16 09:59 Nina Pandya

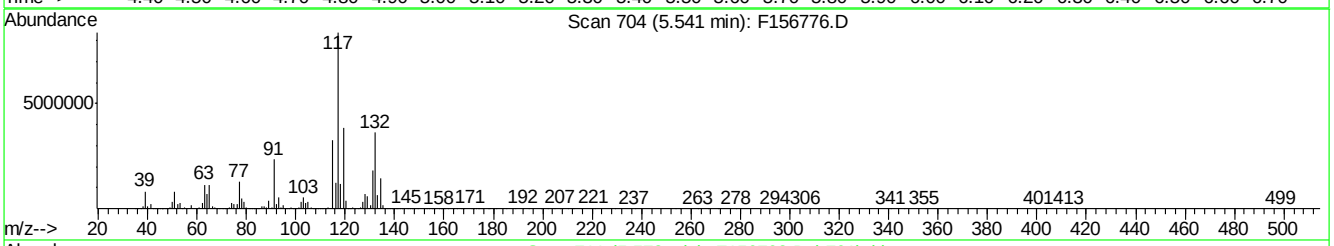
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.59	Split peak

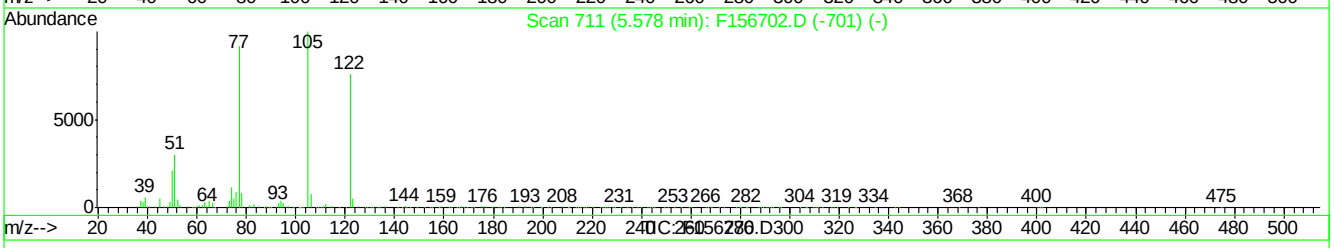
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156776.D Vial: 26
Acq On : 4 May 2016 4:56 am Operator: seanb1
Sample : op93555-msd Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 5:18 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 04 12:15:43 2016
Response via : Multiple Level Calibration







(31) Benzoic acid (t)

5.54min 13.90ppm

response 319326

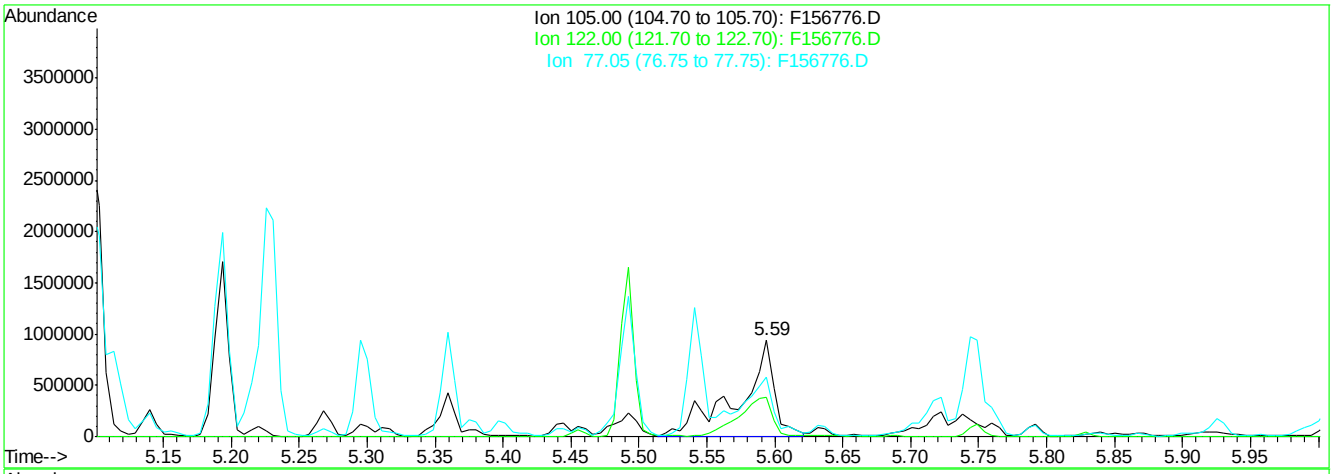
Ion	Exp%	Act%
105.00	100	100
122.00	79.10	0.00#
77.05	81.30	430.06#
0.00	0.00	0.00

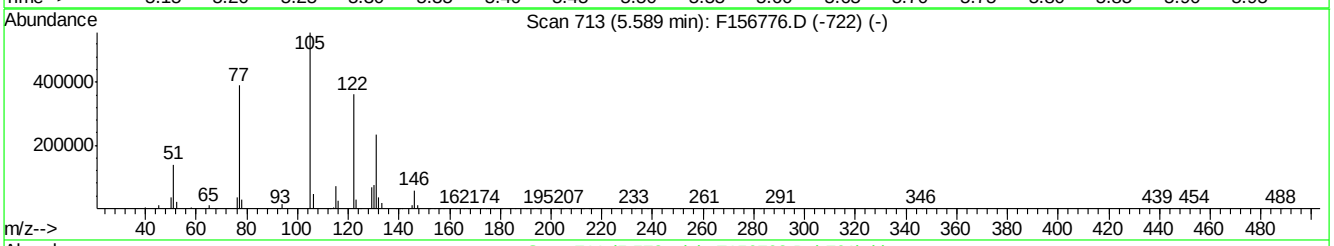
F156776.D MF6563.M Wed May 04 12:17:20 2016 RT1

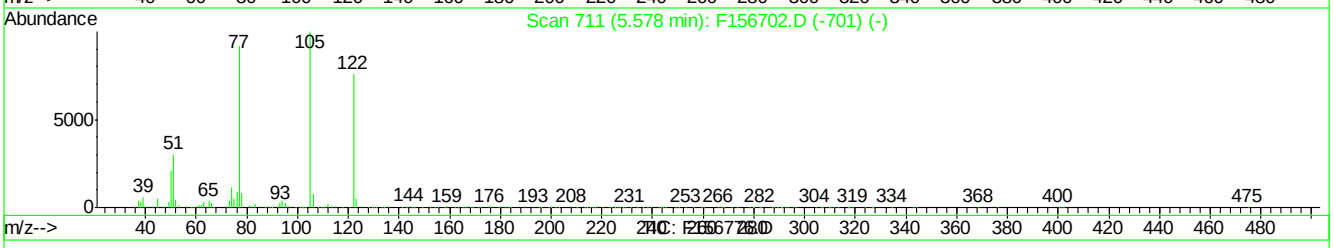
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156776.D Vial: 26
Acq On : 4 May 2016 4:56 am Operator: seanb1
Sample : op93555-msd Inst : MSF
Misc : op93555,ef6600,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 12:17 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 04 12:15:43 2016
Response via : Multiple Level Calibration







(31) Benzoic acid (t)

5.59min 76.06ppm m

response 1747353

Ion	Exp%	Act%
105.00	100	100
122.00	79.10	40.82#
77.05	81.30	60.77
0.00	0.00	0.00

F156776.D MF6563.M Wed May 04 12:17:38 2016 RT1

SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

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 JC19473

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

7.4.3

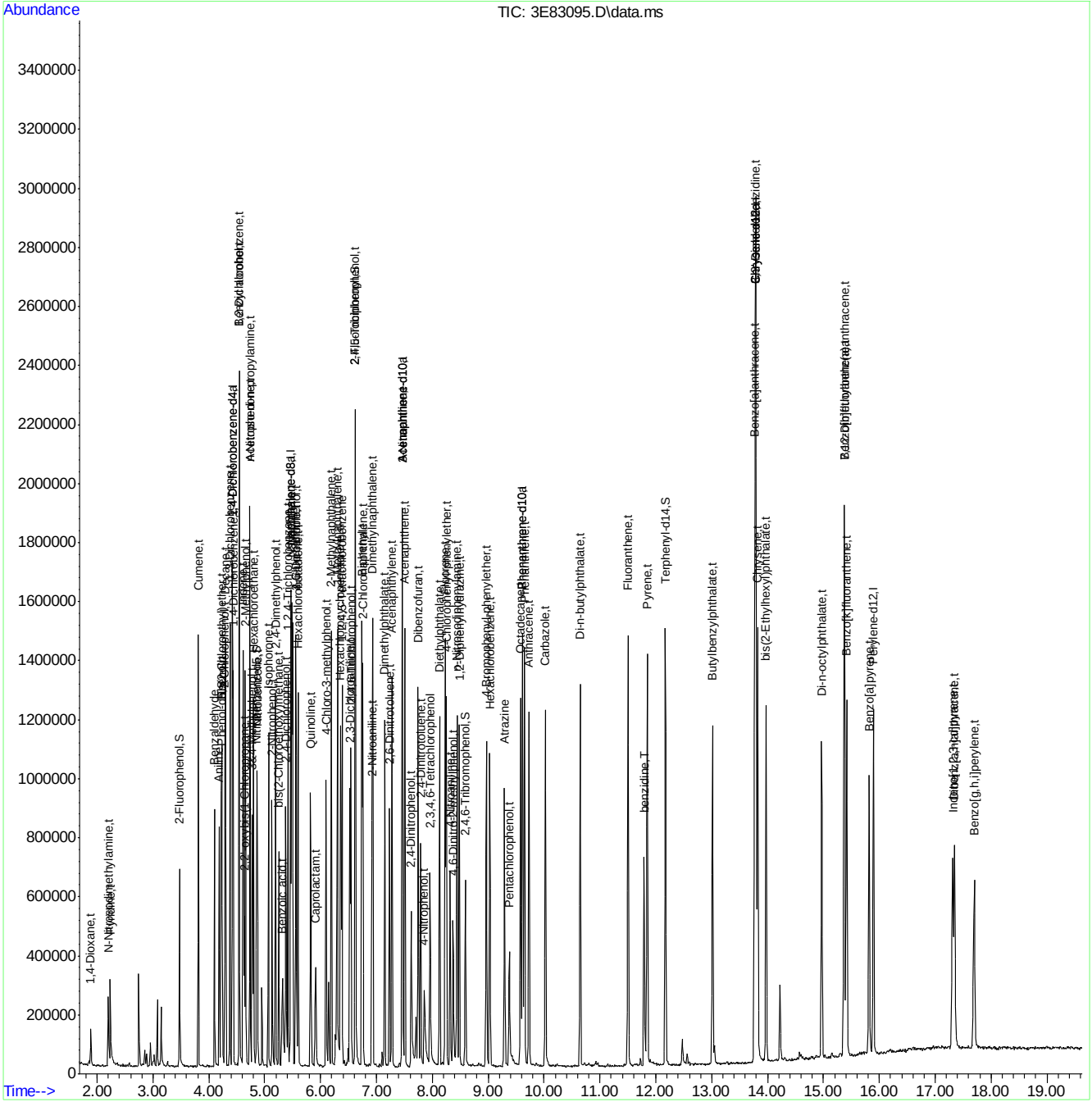
7

SGS ACCUTEST JC19473

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 JC19473

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 JC19473

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

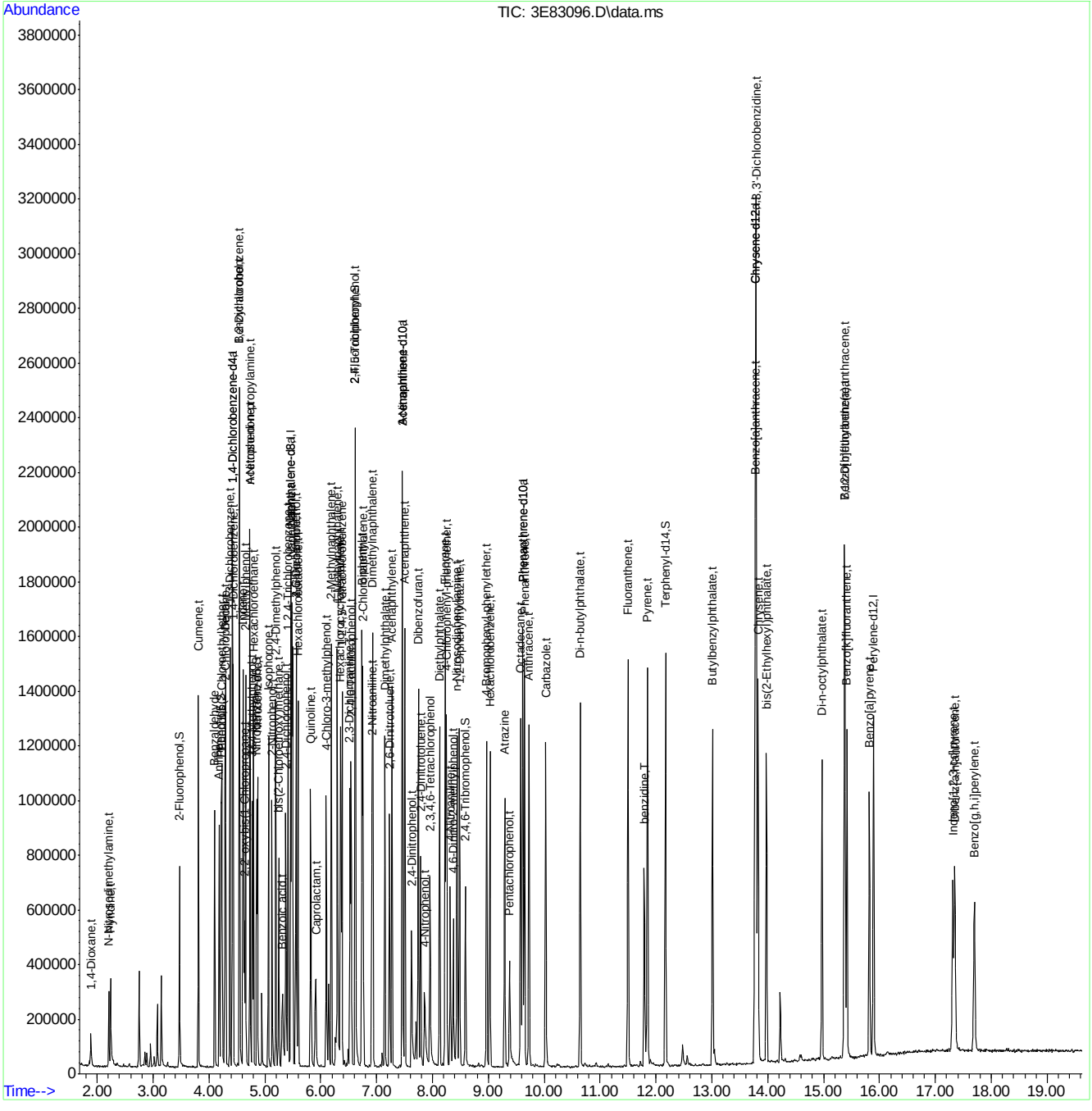
7

SGS ACCUTEST JC19473

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



Manual Integration Approval Summary

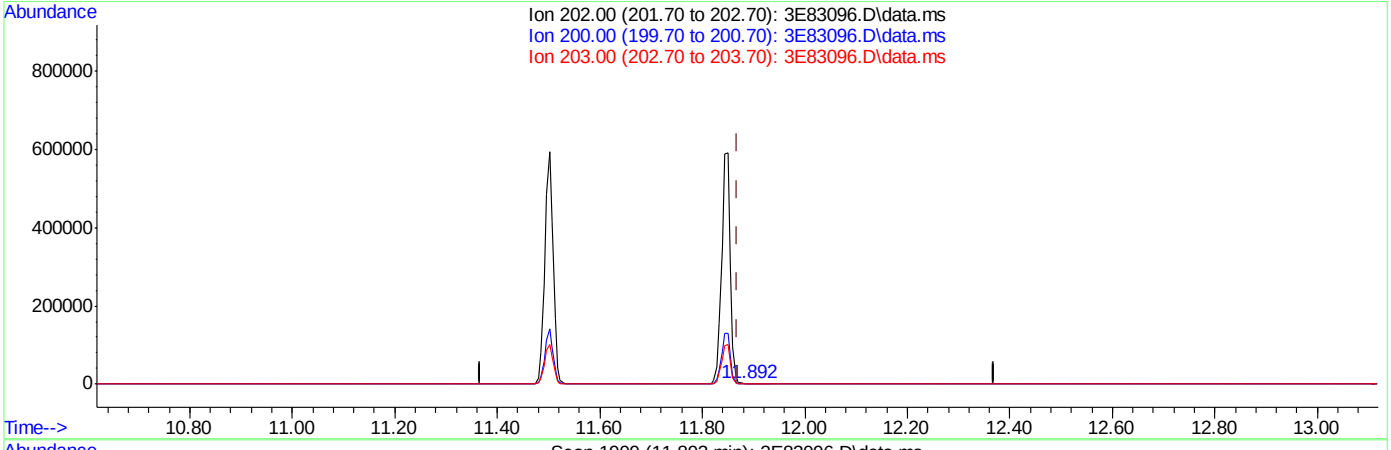
Sample Number:	OP93597-MSD	**Method:**	SW846 8270D
Lab FileID:	3E83096.D	**Analyst approved:**	05/11/16 14:53 Ashley Noble
Injection Time:	05/11/16 12:52	**Supervisor approved:**	05/12/16 08:37 Kristi Schollenberger

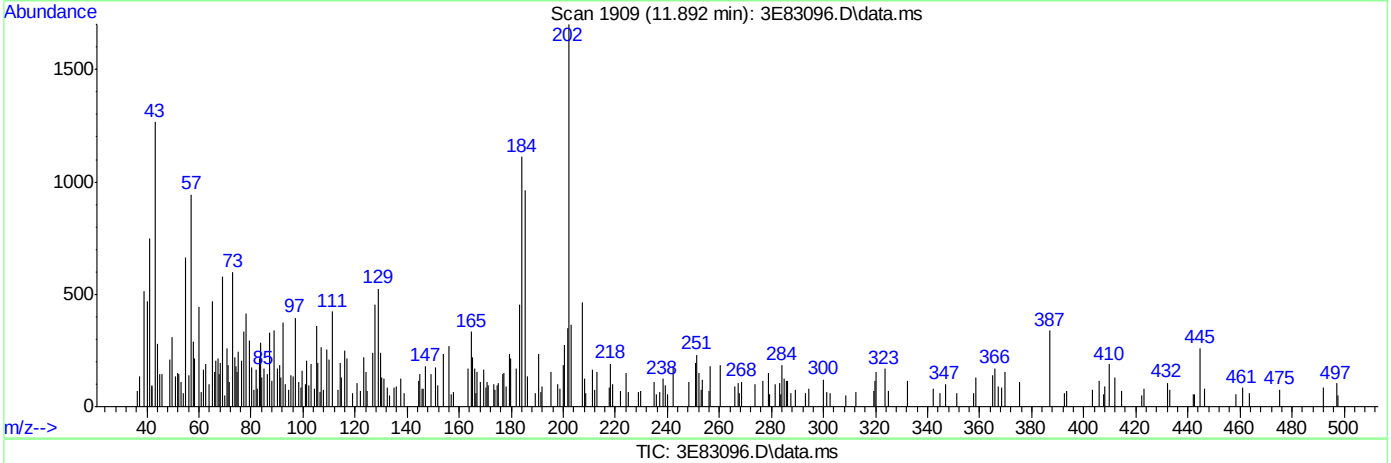
Parameter	CAS	Sig#	R.T. (min.)	Reason
Pyrene	129-00-0		11.85	Poor instrument integration

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

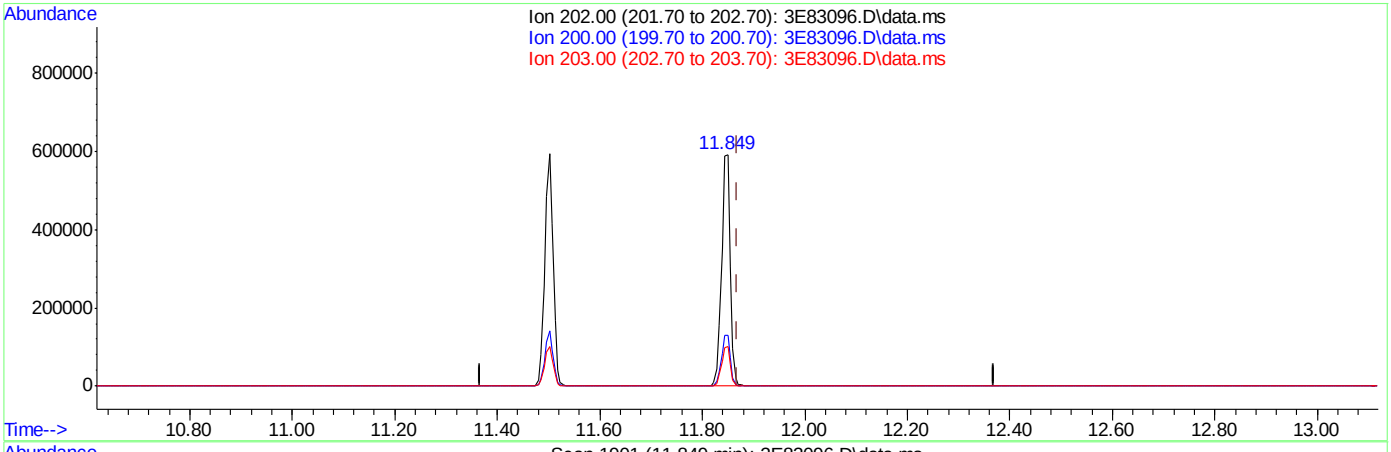
Ion	Exp%	Act%
202.00	100	100
200.00	21.90	7.79
203.00	17.50	7.91
0.00	0.00	0.00

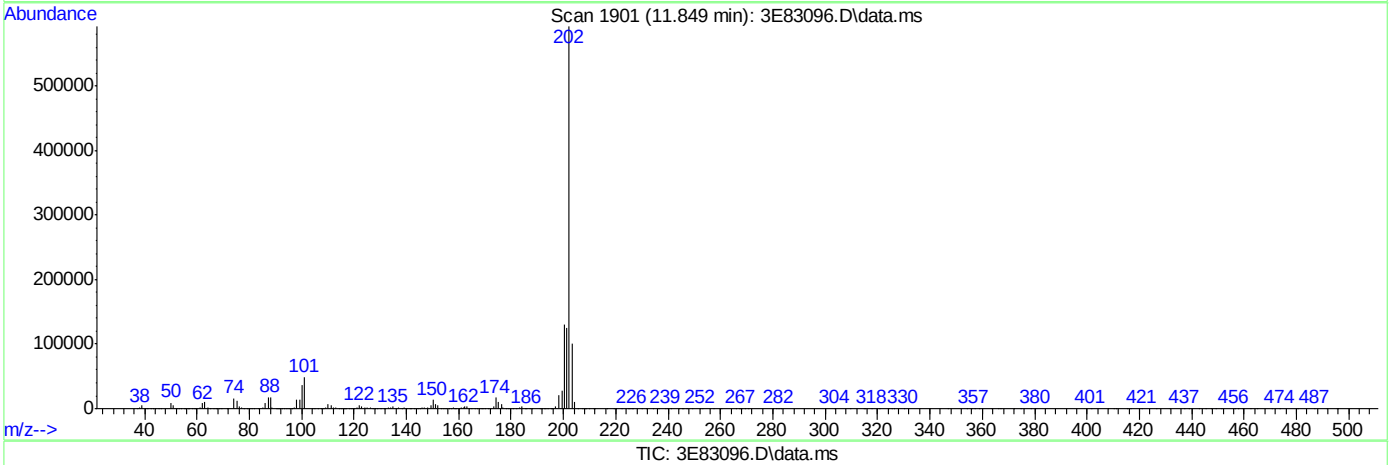
SGS ACCUTEST JC19473

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 JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61055.D
Acq On : 4 May 2016 2:46 pm
Operator : linseyk
Sample : op93555a-ms
Misc : op93555a,e3m2870,1000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 05 14:54:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 14:54:16 2016
Response via : Initial Calibration

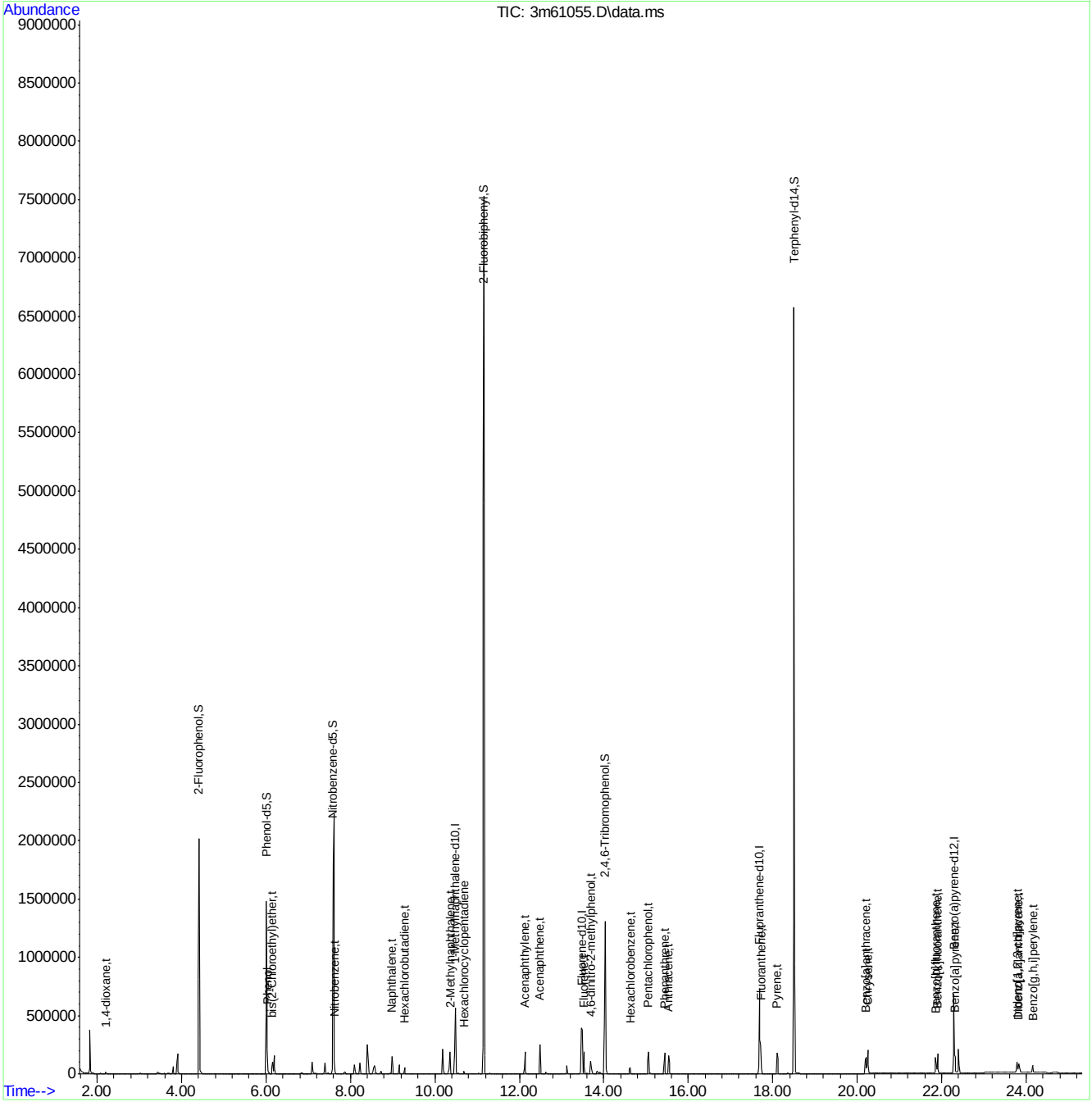
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	341227	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	459705	4.00	ppm	-0.16
21) Fluoranthene-d10	17.685	212	766610	4.00	ppm	-0.17
31) Benzo(a)pyrene-d12	22.289	264	604718	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	1443254	33.81	ppm	-0.09
Spiked Amount 50.000			Recovery = 67.62%			
4) Phenol-d5	6.012	99	1553898	22.00	ppm	-0.08
Spiked Amount 50.000			Recovery = 44.00%			
7) Nitrobenzene-d5	7.587	82	2846632	43.34	ppm	-0.12
Spiked Amount 50.000			Recovery = 86.68%			
15) 2-Fluorobiphenyl	11.160	172	7088367	56.11	ppm	-0.14
Spiked Amount 50.000			Recovery = 112.22%			
20) 2,4,6-Tribromophenol	14.033	330	827626	57.52	ppm	-0.14
Spiked Amount 50.000			Recovery = 115.04%			
28) Terphenyl-d14	18.504	244	5308847	47.74	ppm	-0.16
Spiked Amount 50.000			Recovery = 95.48%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	10346	0.59	ppm #	14
5) Phenol	6.036	94	195861	2.57	ppm #	58
6) bis(2-Chloroethyl)ether	6.157	93	53522	0.93	ppm #	67
8) Nitrobenzene	7.625	77	73478	1.03	ppm	73
9) Naphthalene	8.980	128	179063	0.94	ppm	90
10) Hexachlorobutadiene	9.282	225	31746	0.96	ppm	77
11) 2-Methylnaphthalene	10.365	141	105698	1.07	ppm	86
13) Hexachlorocyclopentadiene	10.693	237	16744	0.64	ppm	99
16) Acenaphthylene	12.134	152	176125	1.11	ppm	96
17) Acenaphthene	12.490	153	122048	1.15	ppm	93
18) 4,6-dinitro-2-methylph...	13.693	198	97205	6.22	ppm #	1
19) Fluorene	13.524	166	136079	1.07	ppm	98
22) Hexachlorobenzene	14.624	284	36941	1.02	ppm	98
23) Pentachlorophenol	15.057	266	134797	5.37	ppm	89
24) Phenanthrene	15.444	178	200140	1.07	ppm #	56
25) Anthracene	15.537	178	183079	1.10	ppm	89
26) Fluoranthene	17.716	202	222224	0.94	ppm	96
27) Pyrene	18.102	202	221017	1.01	ppm	91
29) Benzo[a]anthracene	20.203	228	176304	0.84	ppm	92
30) Chrysene	20.250	228	179536	0.89	ppm	90
32) Benzo[b]fluoranthene	21.857	252	163226	0.81	ppm	98
33) Benzo[k]fluoranthene	21.903	252	129647	0.70	ppm	98
34) Benzo[a]pyrene	22.320	252	132401	0.71	ppm	88
35) Indeno[1,2,3-cd]pyrene	23.787	276	114470	0.60	ppm	98
36) Dibenz[a,h]anthracene	23.824	278	75404	0.48	ppm	69
37) Benzo[g,h,i]perylene	24.163	276	95142	0.57	ppm	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61055.D
Acq On : 4 May 2016 2:46 pm
Operator : linseyk
Sample : op93555a-ms
Misc : op93555a,e3m2870,1000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 05 14:54:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 14:54:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61056.D
Acq On : 4 May 2016 3:50 pm
Operator : linseyk
Sample : op93555a-msd
Misc : op93555a,e3m2870,990
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:55:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 14:55:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	351254	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	480659	4.00	ppm	-0.16
21) Fluoranthene-d10	17.685	212	784871	4.00	ppm	-0.17
31) Benzo(a)pyrene-d12	22.289	264	605100	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	1349273	30.70	ppm	-0.09
Spiked Amount 50.000			Recovery = 61.40%			
4) Phenol-d5	6.012	99	1478617	20.33	ppm	-0.08
Spiked Amount 50.000			Recovery = 40.66%			
7) Nitrobenzene-d5	7.587	82	2604058	38.52	ppm	-0.12
Spiked Amount 50.000			Recovery = 77.04%			
15) 2-Fluorobiphenyl	11.160	172	6679069	50.57	ppm	-0.14
Spiked Amount 50.000			Recovery = 101.14%			
20) 2,4,6-Tribromophenol	14.033	330	783718	52.10	ppm	-0.14
Spiked Amount 50.000			Recovery = 104.20%			
28) Terphenyl-d14	18.504	244	5011779	44.02	ppm	-0.16
Spiked Amount 50.000			Recovery = 88.04%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	10976	0.60	ppm	86
5) Phenol	6.024	94	188432	2.40	ppm #	88
6) bis(2-Chloroethyl)ether	6.157	93	51819	0.87	ppm #	58
8) Nitrobenzene	7.625	77	69405	0.95	ppm	76
9) Naphthalene	8.980	128	182942	0.94	ppm	91
10) Hexachlorobutadiene	9.282	225	30211	0.89	ppm	77
11) 2-Methylnaphthalene	10.365	141	104557	1.03	ppm	88
13) Hexachlorocyclopentadiene	10.693	237	15583	0.58	ppm	100
16) Acenaphthylene	12.134	152	175156	1.05	ppm	96
17) Acenaphthene	12.490	153	117931	1.06	ppm	95
18) 4,6-dinitro-2-methylph...	13.693	198	91070	5.67	ppm #	1
19) Fluorene	13.524	166	137814	1.03	ppm	100
22) Hexachlorobenzene	14.624	284	35613	0.96	ppm	95
23) Pentachlorophenol	15.057	266	115203	4.51	ppm	87
24) Phenanthrene	15.444	178	197330	1.03	ppm #	55
25) Anthracene	15.537	178	176952	1.04	ppm	89
26) Fluoranthene	17.716	202	211258	0.87	ppm	97
27) Pyrene	18.102	202	210923	0.94	ppm	94
29) Benzo[a]anthracene	20.203	228	160575	0.75	ppm	91
30) Chrysene	20.250	228	167075	0.81	ppm	91
32) Benzo[b]fluoranthene	21.857	252	149725	0.74	ppm	98
33) Benzo[k]fluoranthene	21.903	252	119851	0.64	ppm	98
34) Benzo[a]pyrene	22.320	252	124332	0.66	ppm	88
35) Indeno[1,2,3-cd]pyrene	23.787	276	111670	0.59	ppm	99
36) Dibenz[a,h]anthracene	23.824	278	76824	0.49	ppm	69
37) Benzo[g,h,i]perylene	24.144	276	94892	0.57	ppm	91

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

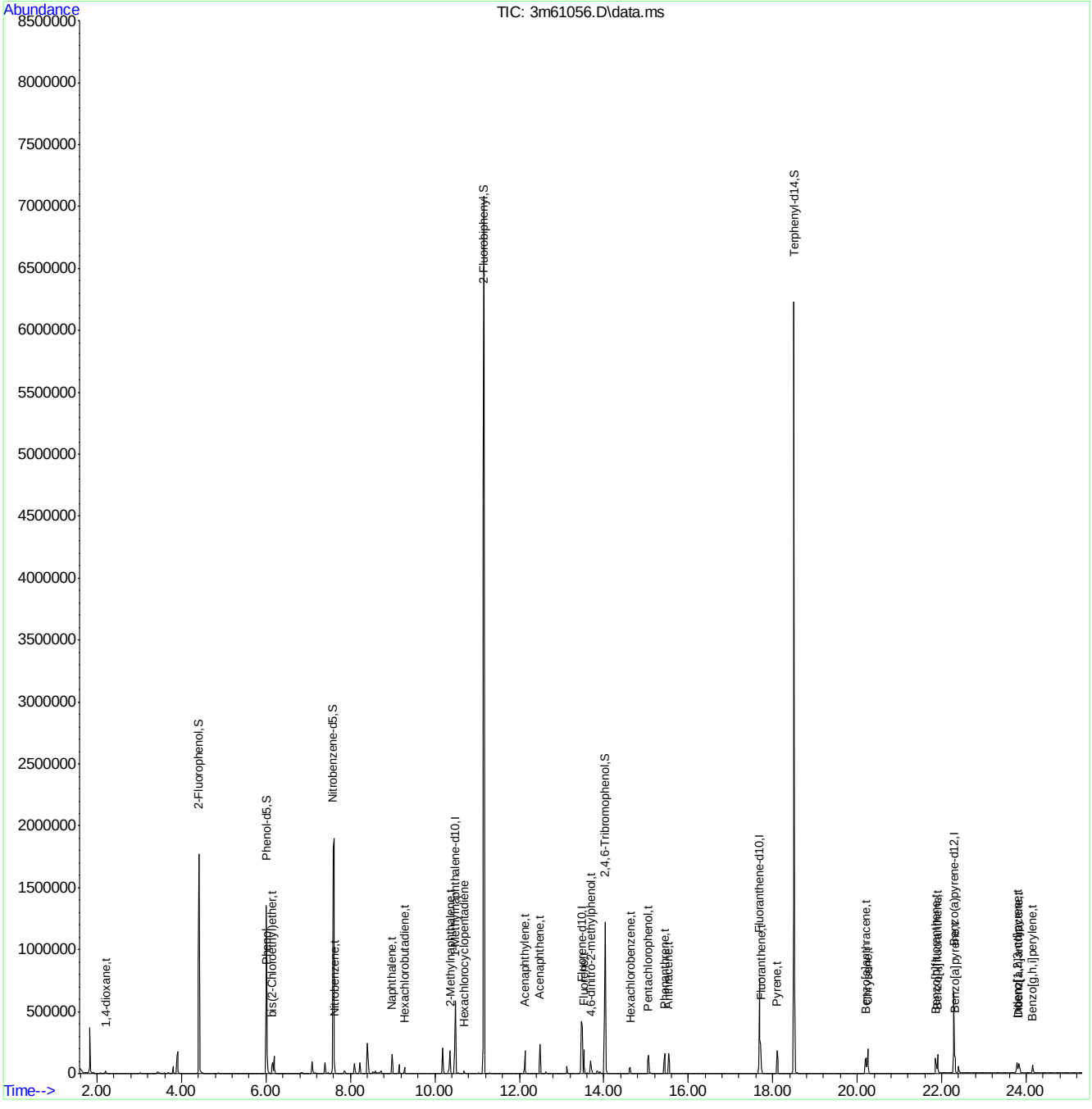
M3M2855SIM.M Thu May 05 14:55:25 2016 RPT1 Page: 1

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61056.D
Acq On : 4 May 2016 3:50 pm
Operator : linseyk
Sample : op93555a-msd
Misc : op93555a,e3m2870,990
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:55:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 05 14:55:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC19473

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

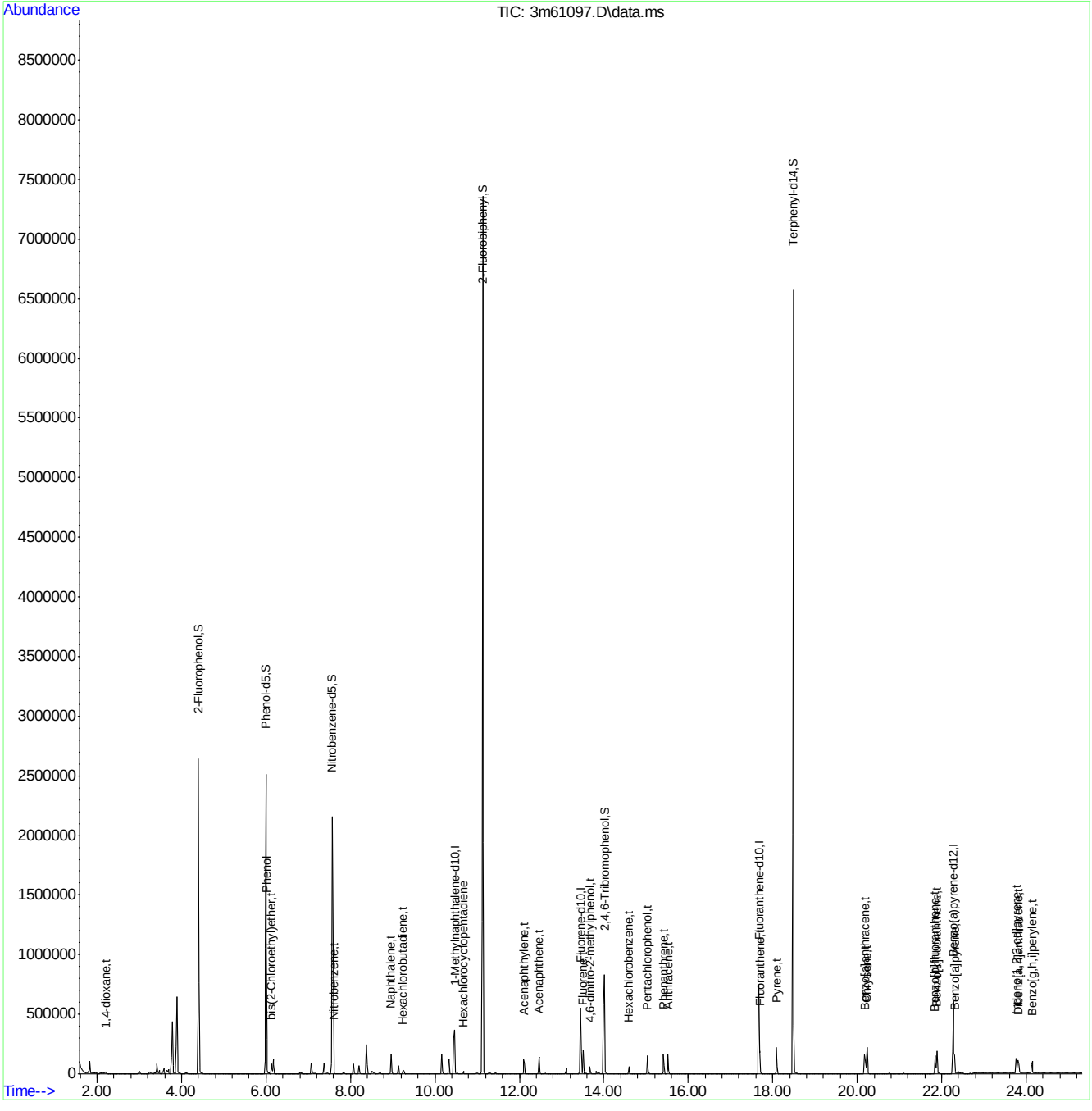
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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 JC19473

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

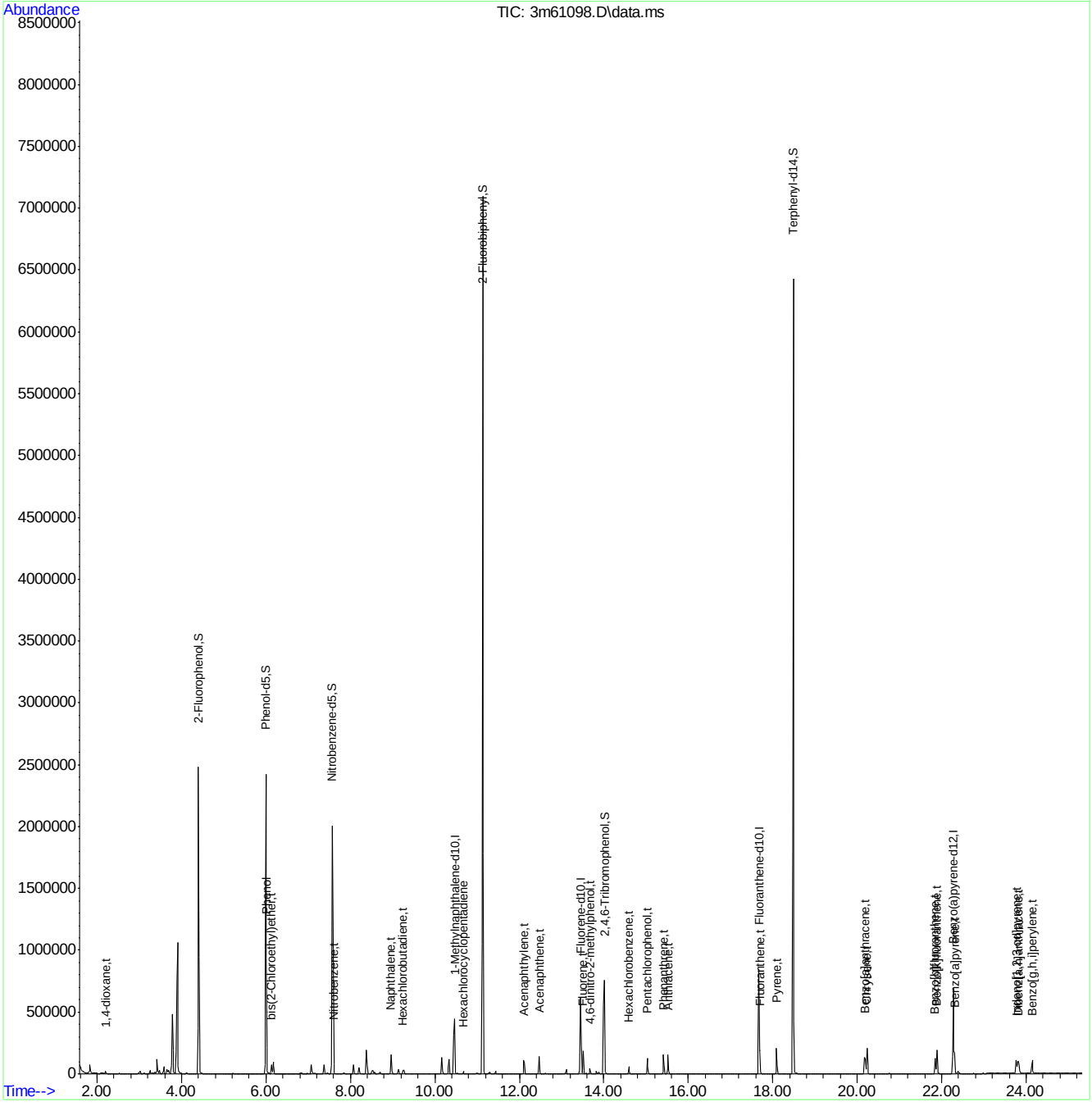
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

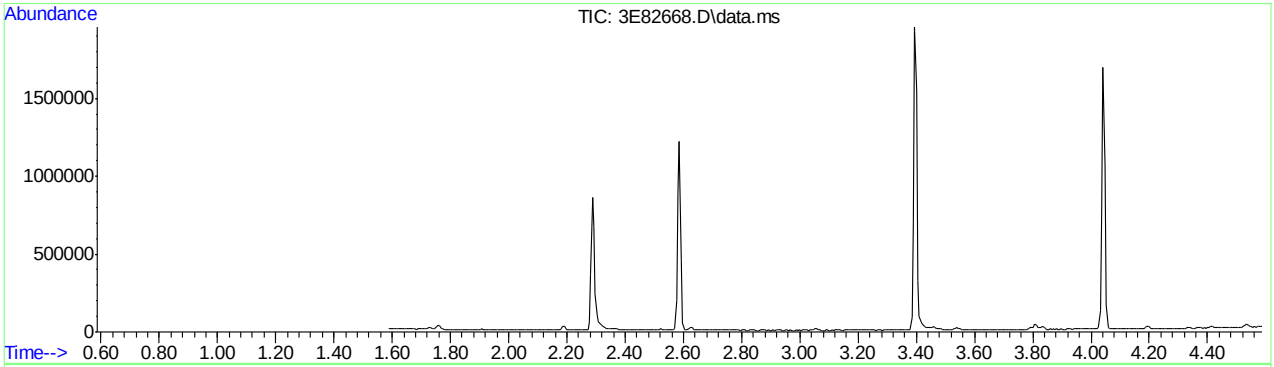


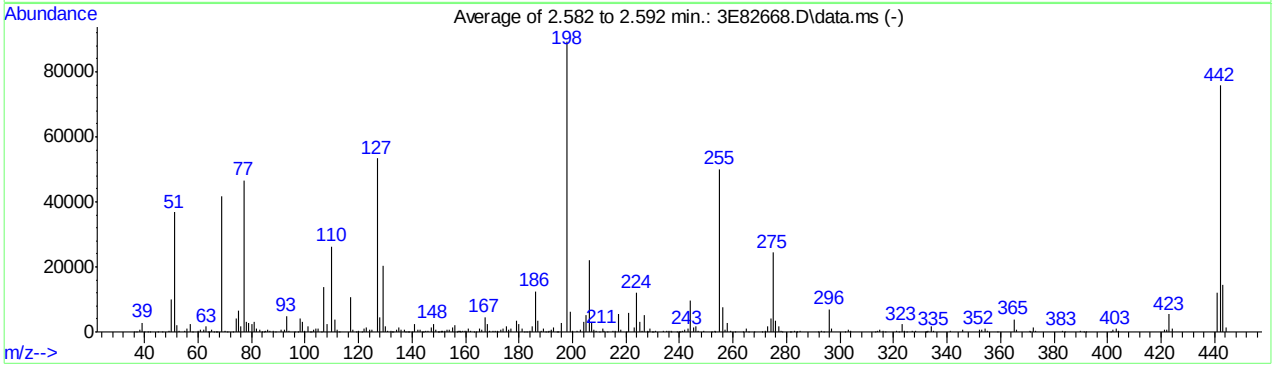
DFTPP

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 JC19473

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

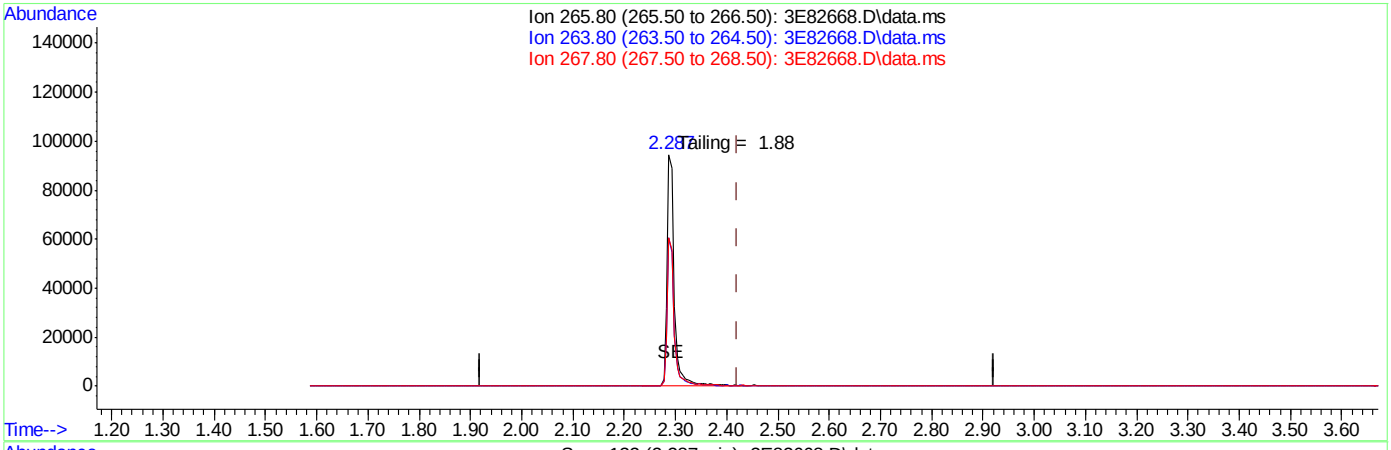
Average of 2.582 to 2.592 min.: 3E82668.D\data.ms
dftpp
Modified:subtracted

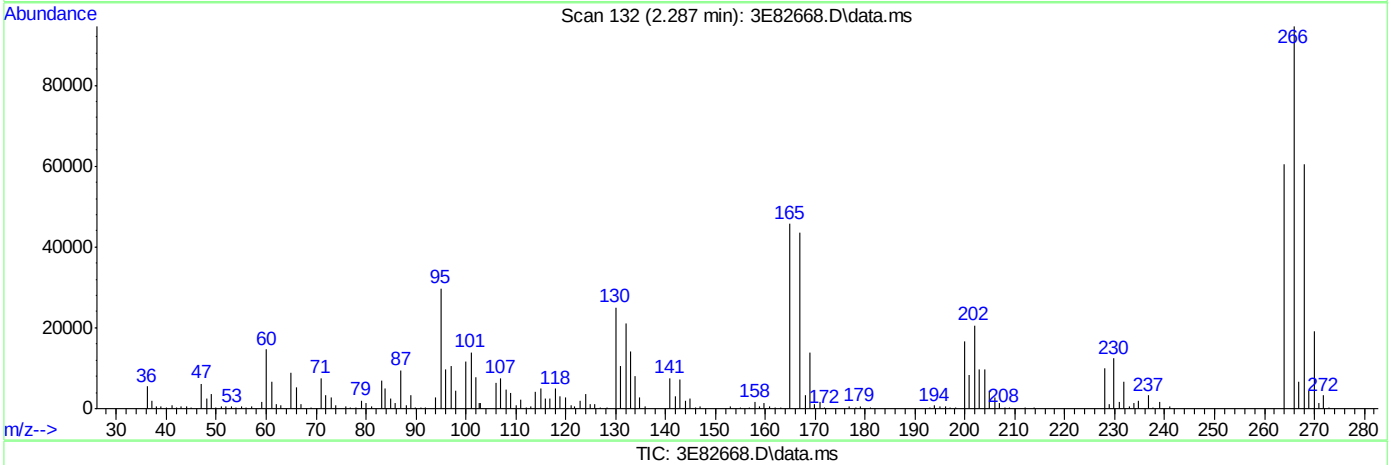
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.05	307	372.05	1521	421.10	837		
346.00	551	373.10	351	422.05	810		
352.10	859	382.95	364	423.10	5503		
353.05	597	384.10	115	424.05	1177		
354.05	947	390.05	232	441.15	11945		
355.10	201	391.10	53	442.10	75784		
359.00	52	392.00	56	443.10	14615		
365.05	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

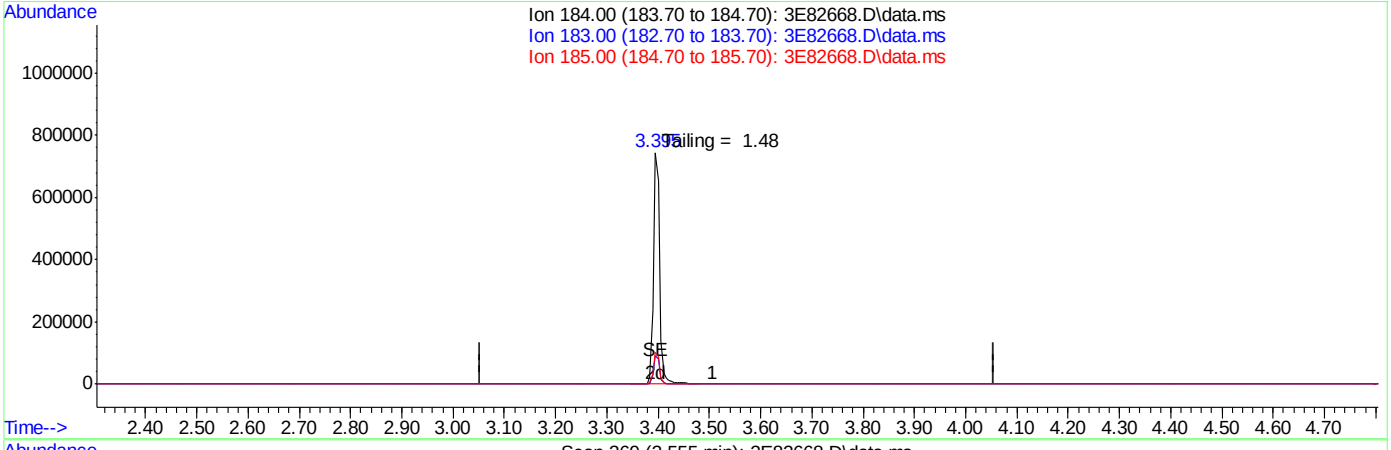
Ion	Exp%	Act%
265.80	100	100
263.80	62.20	63.87
267.80	64.70	63.95
0.00	0.00	0.00

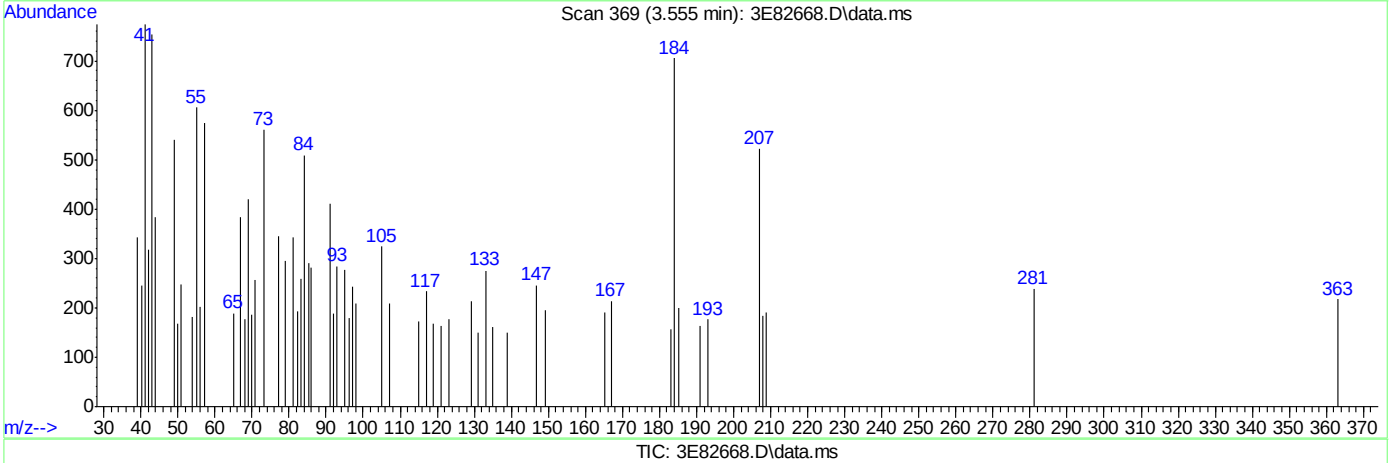
SGS ACCUTEST JC19473

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

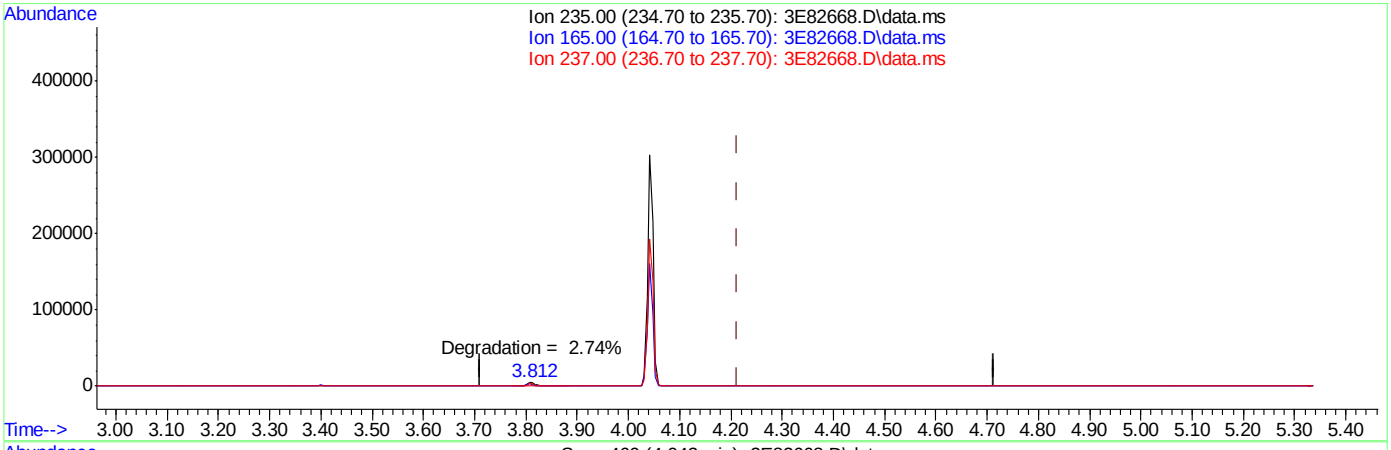
Ion	Exp%	Act%
184.00	100	0.00
183.00	13.20	0.00
185.00	15.40	0.00
0.00	0.00	0.00

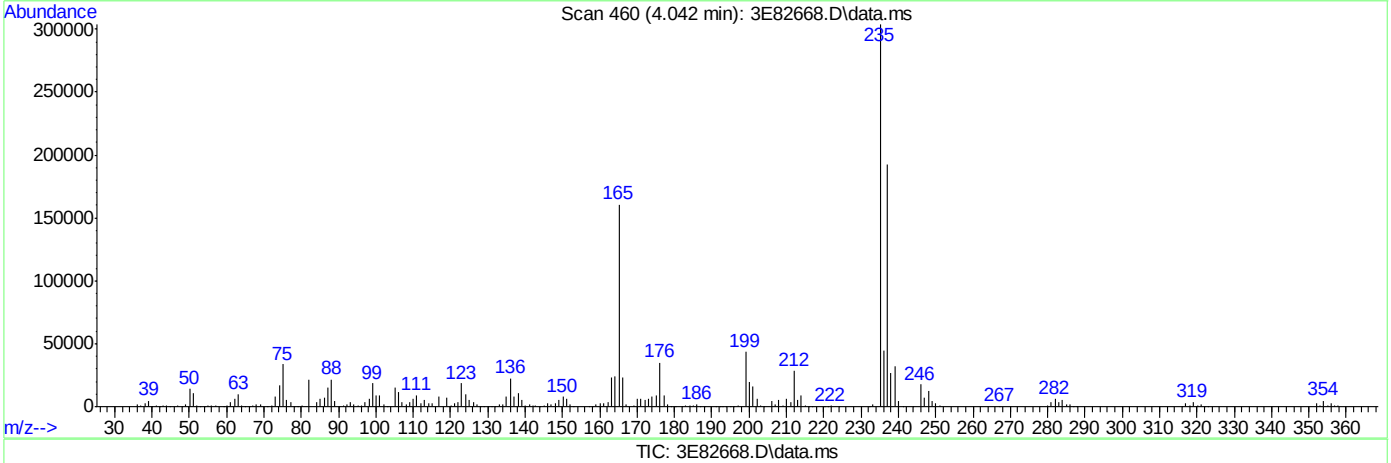
SGS ACCUTEST JC19473

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

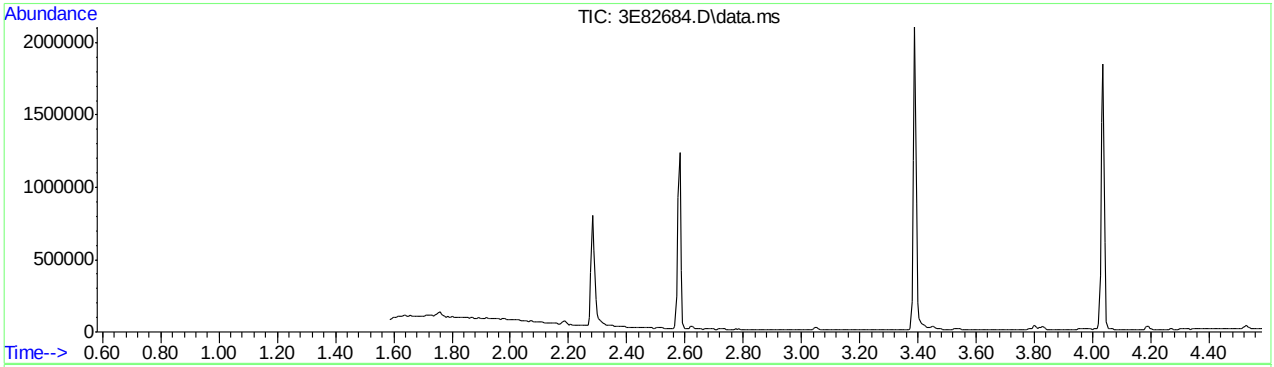
SGS ACCUTEST JC19473

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 JC19473

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

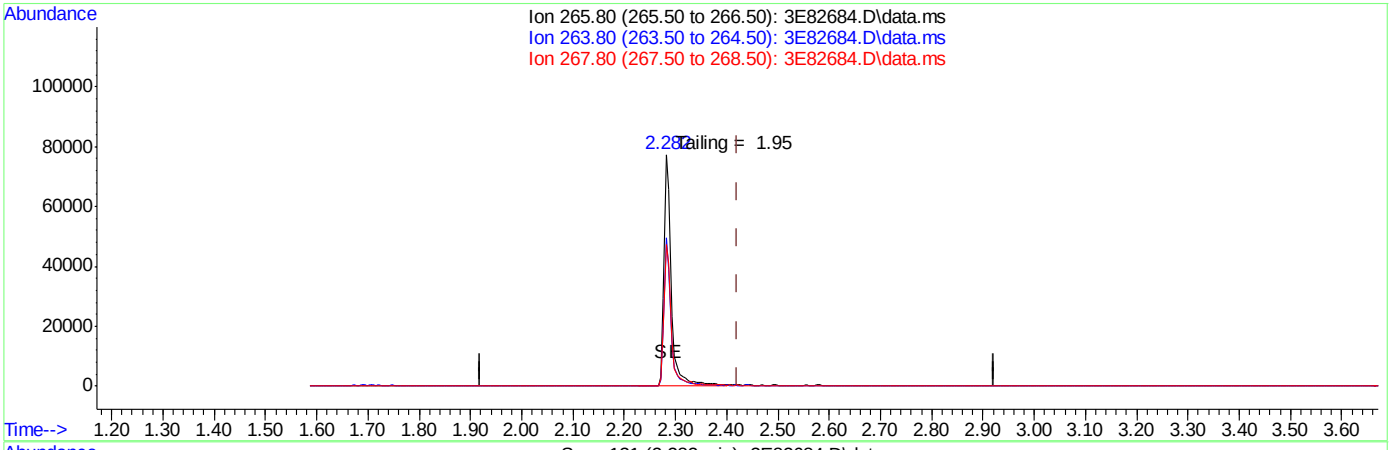
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
353.15	576	391.00	72	441.10	8486		
354.05	873	392.10	51	442.10	56685		
355.15	196	401.20	56	443.10	11103		
365.05	3692	402.05	525	444.15	990		
366.05	638	402.95	637				
371.05	159	404.05	218				
372.10	1557	421.10	538				
373.10	374	422.05	745				
383.05	342	423.10	4236				
384.10	64	424.05	756				
389.95	111	438.30	57				

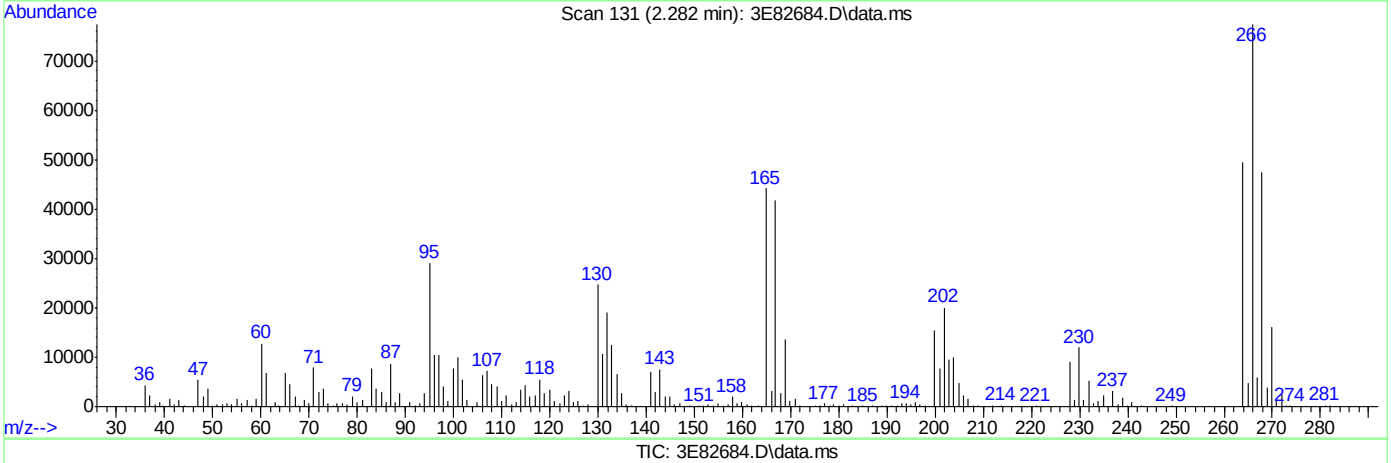
SGS ACCUTEST JC19473

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

(1) Pentachlorophenol (t)

2.282min (-0.139) 48.87ppb

response 76381

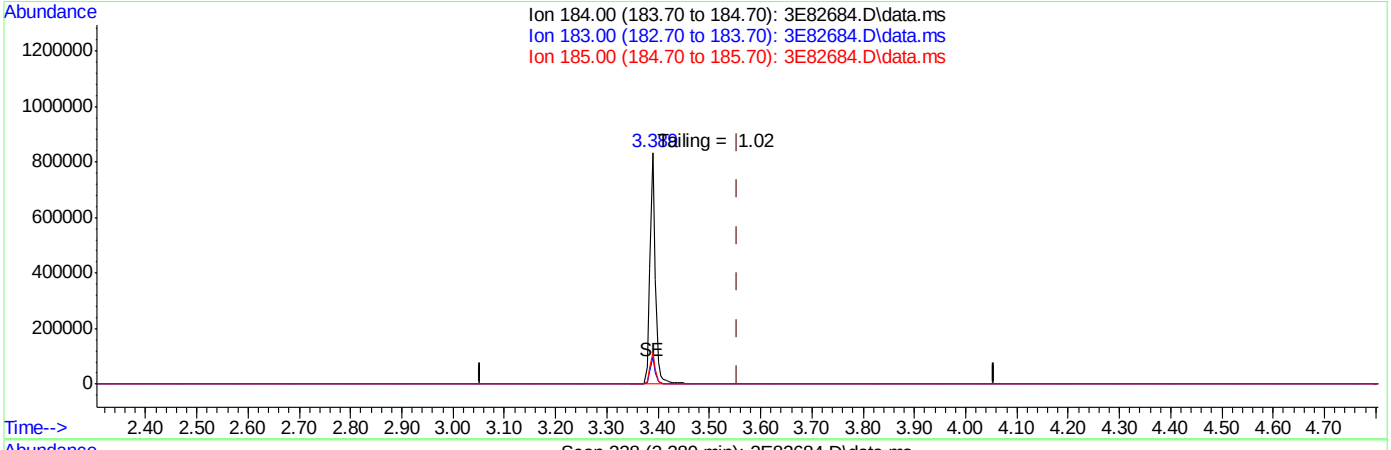
Ion	Exp%	Act%
265.80	100	100
263.80	62.20	63.83
267.80	64.70	60.95
0.00	0.00	0.00

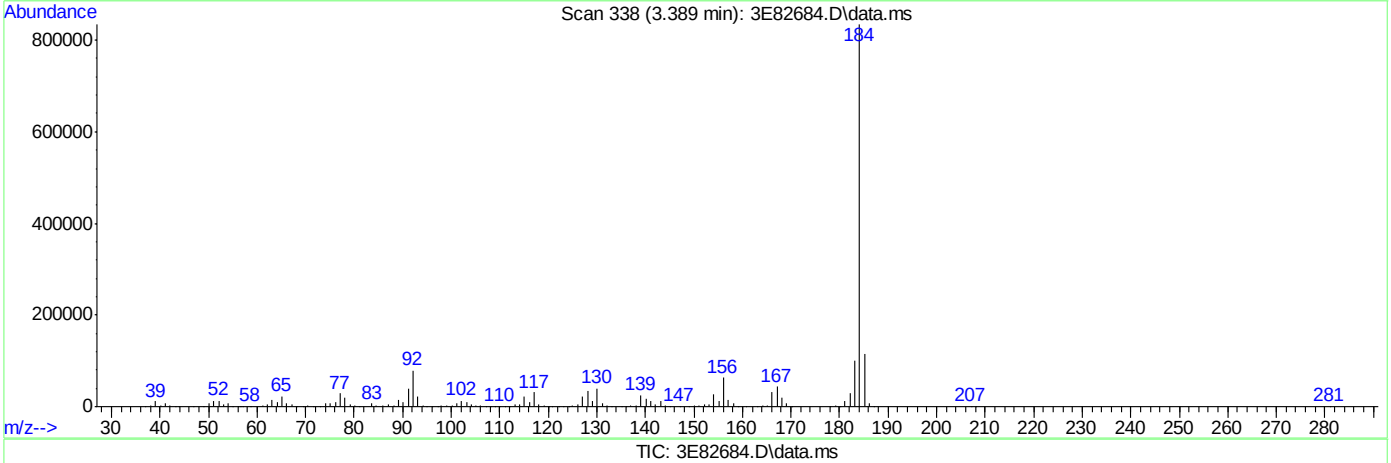
SGS ACCUTEST JC19473

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

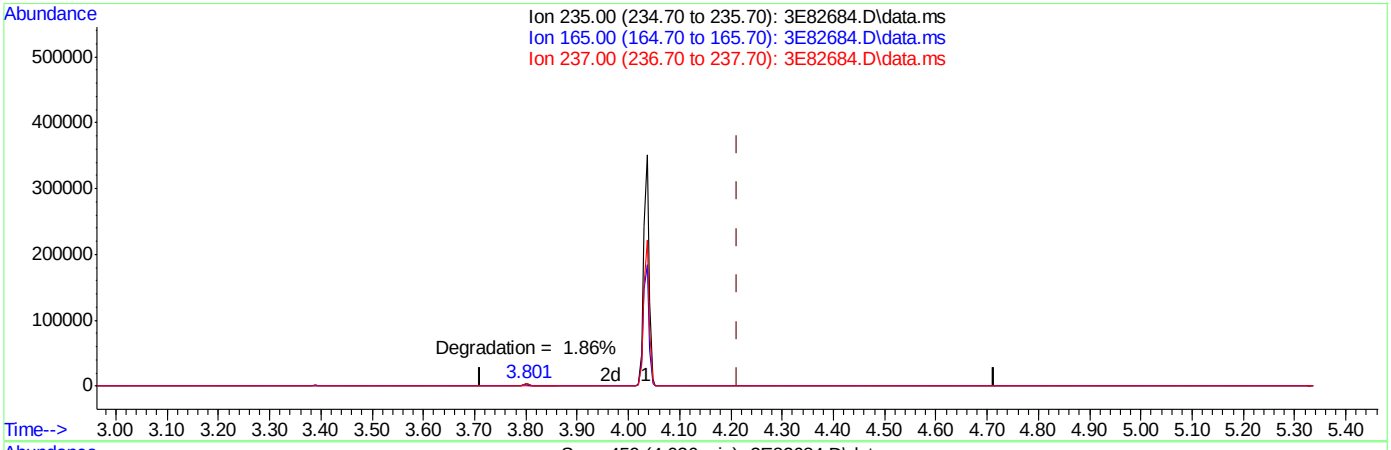
response 611530

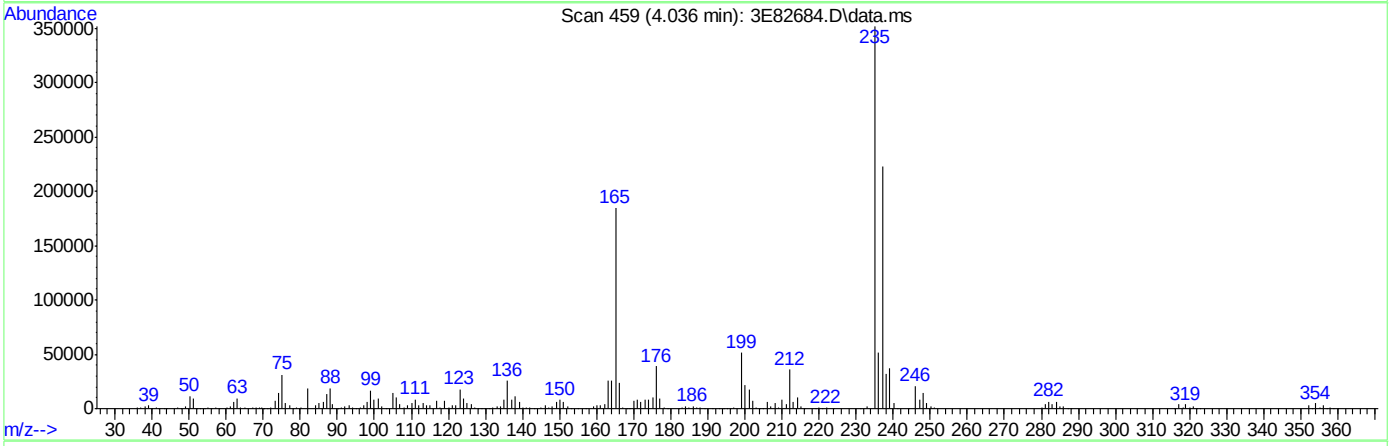
Ion	Exp%	Act%
184.00	100	100
183.00	13.20	11.94
185.00	15.40	13.92
0.00	0.00	0.00

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

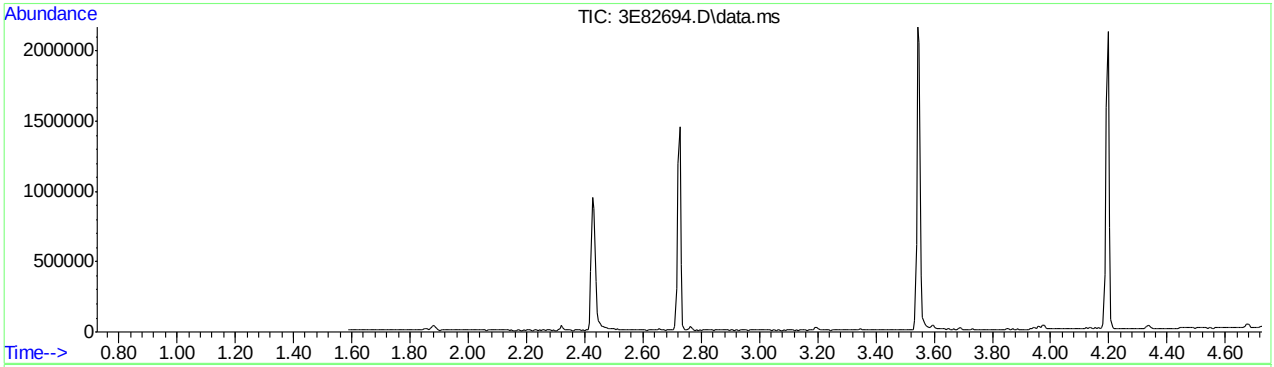
SGS ACCUTEST JC19473

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 JC19473

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

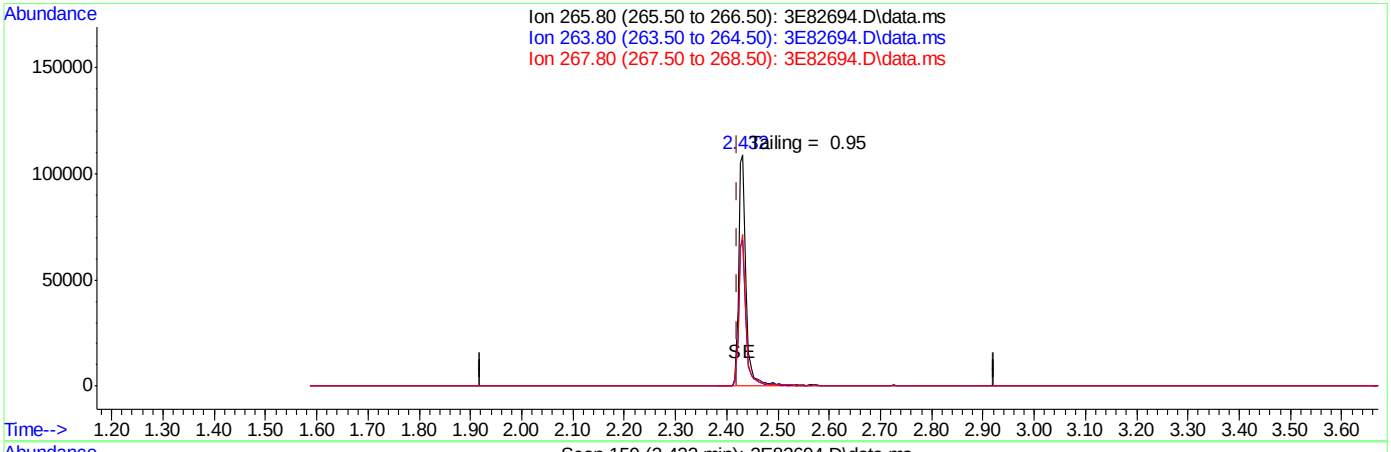
Average of 2.721 to 2.731 min.: 3E82694.D\data.ms
dftpp
Modified:subtracted

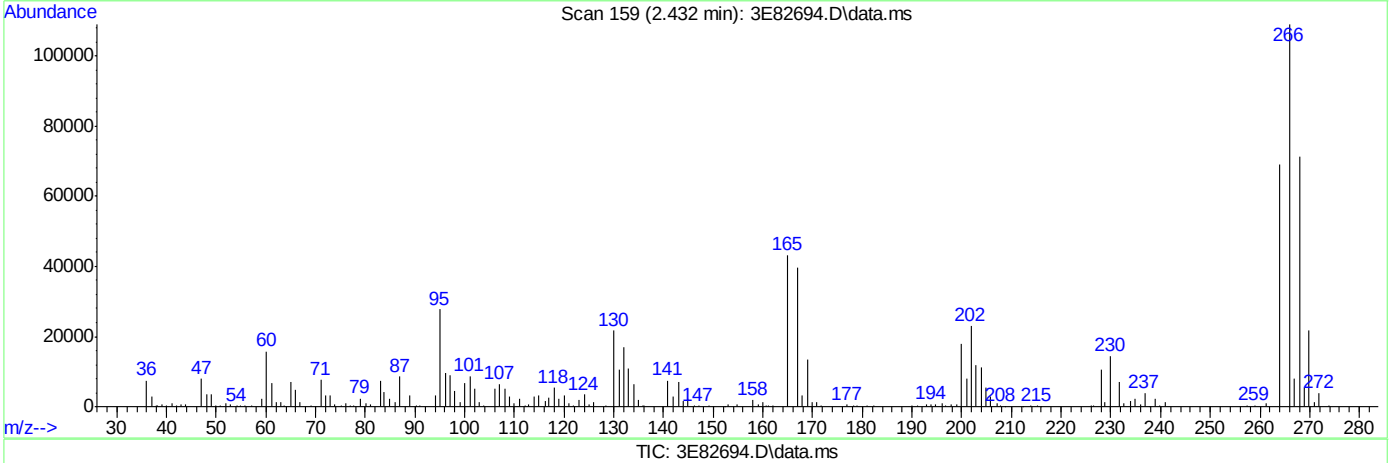
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
385.00	63	421.05	918	435.55	241	442.10	92170
389.80	51	422.10	542	436.25	211	443.10	18045
390.05	175	423.10	5770	436.90	128	444.10	1790
390.90	114	424.05	1230	437.10	99	445.00	64
392.00	164	425.10	111	437.75	275		
394.10	56	430.20	91	438.15	362		
401.05	176	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





TIC: 3E82694.D\data.ms

(1) Pentachlorophenol (t)

2.432min (+0.011) 71.67ppb

response 112005

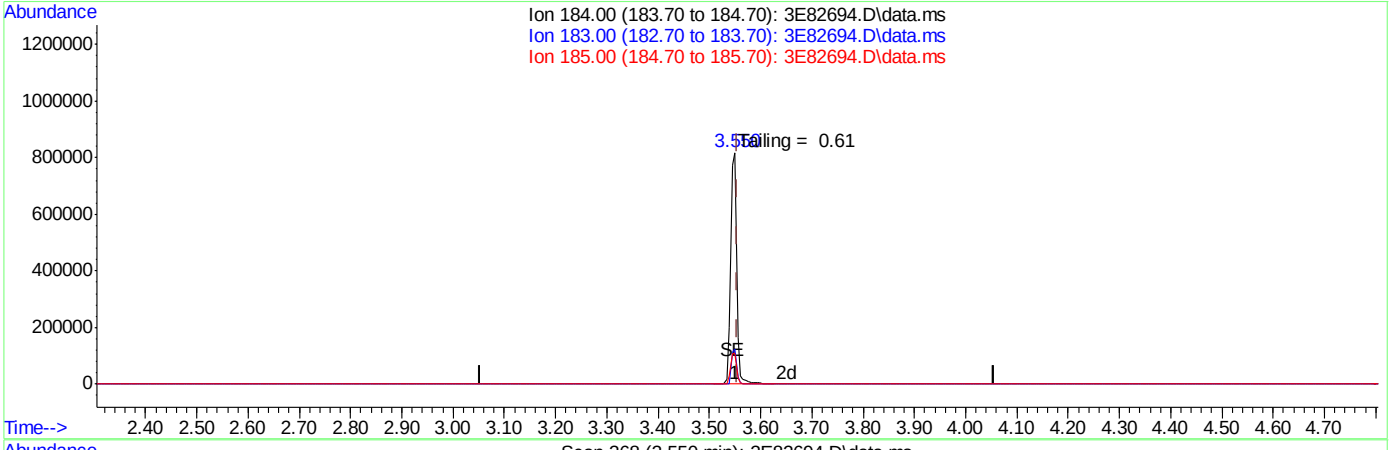
Ion	Exp%	Act%
265.80	100	100
263.80	62.20	63.18
267.80	64.70	65.25
0.00	0.00	0.00

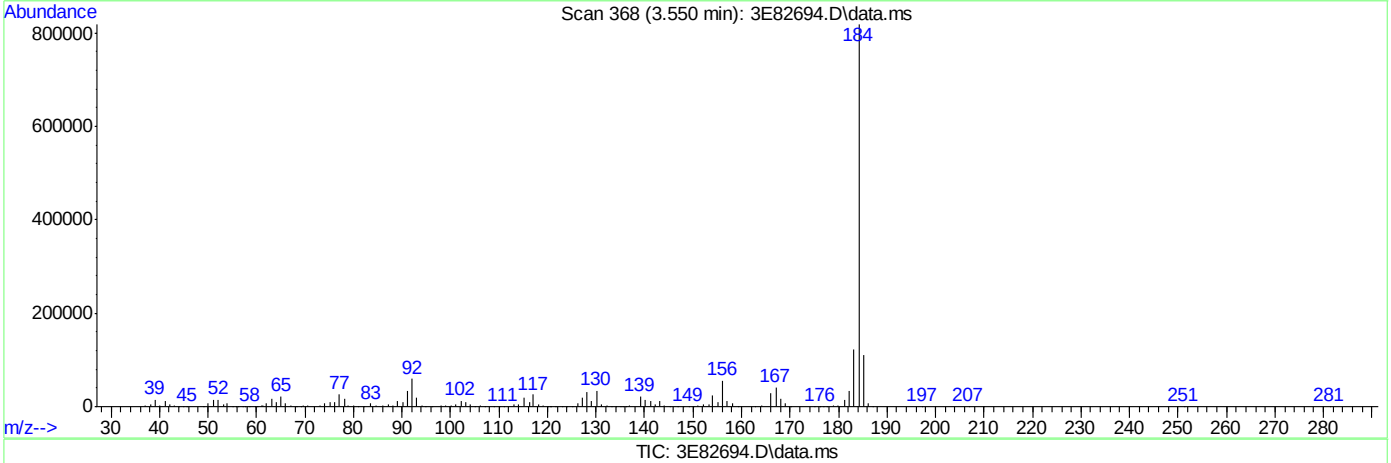
SGS ACCUTEST JC19473

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

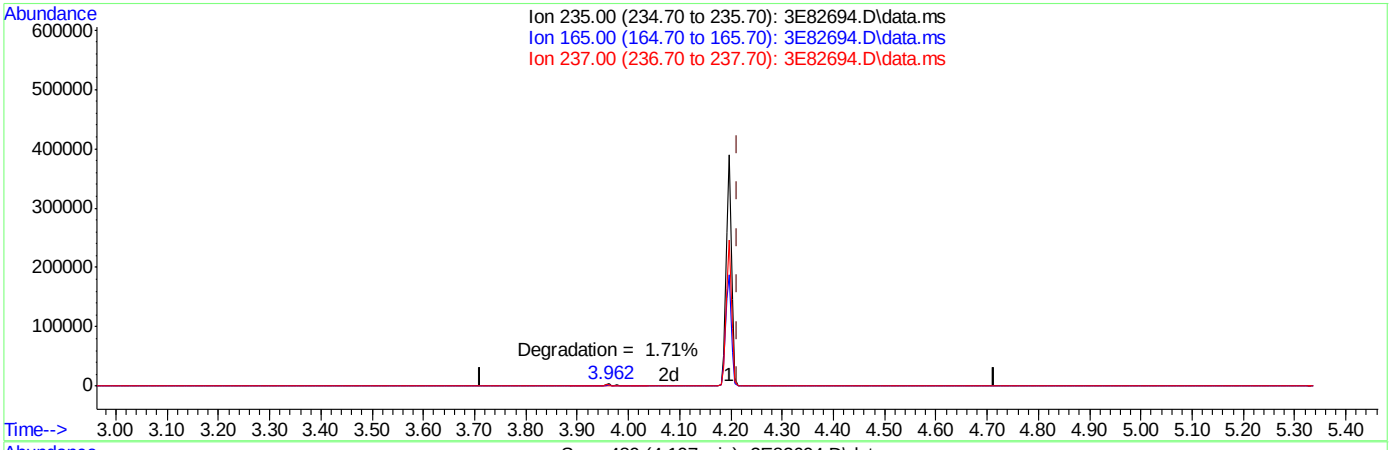
Ion	Exp%	Act%
184.00	100	100
183.00	13.20	14.96
185.00	15.40	13.44
0.00	0.00	0.00

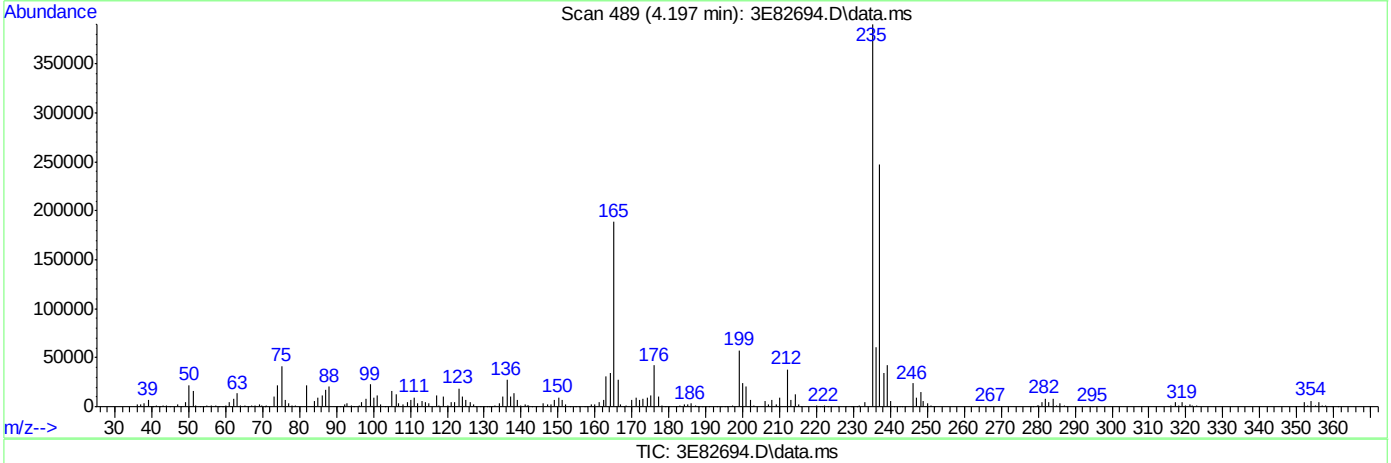
SGS ACCUTEST JC19473

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

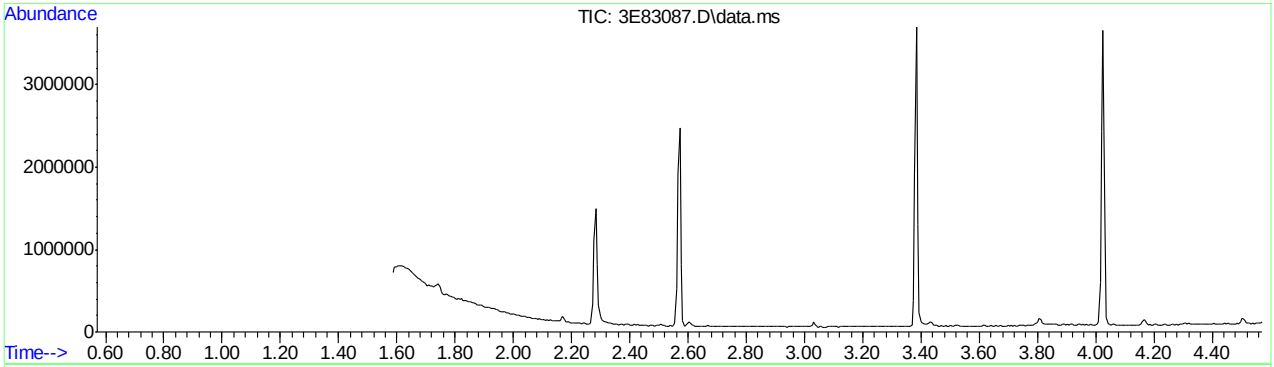
SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

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

dftpp3e.M Wed May 11 12:21:00 2016 MS3E Page: 2

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

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

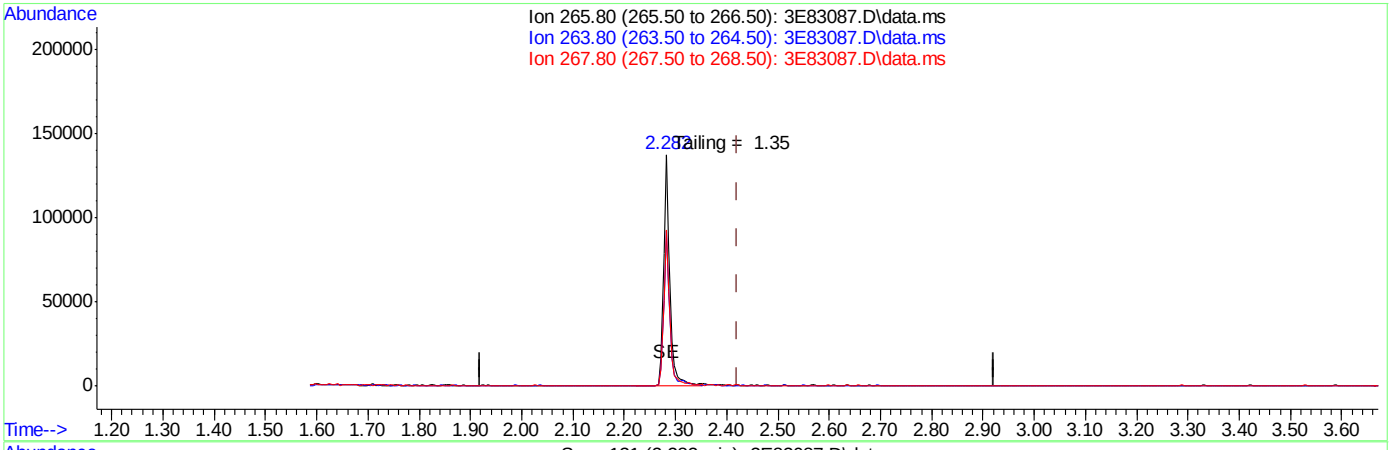
Average of 2.566 to 2.576 min.: 3E83087.D\data.ms
dftpp
Modified:subtracted

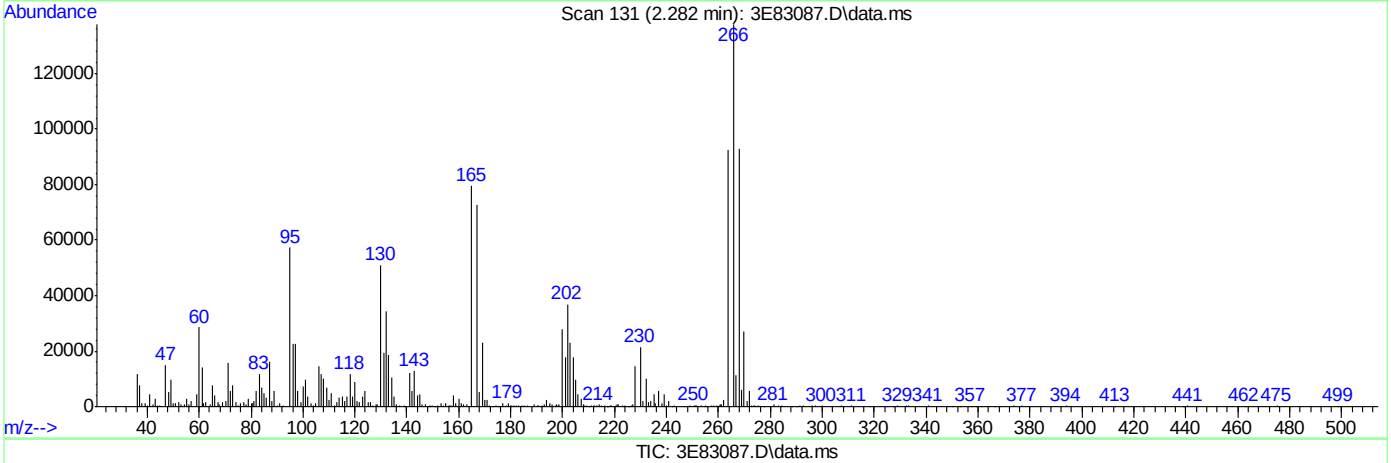
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
424.30	192	430.95	244	436.75	256	457.50	52
426.00	65	431.85	369	437.55	141	469.00	94
426.40	59	432.20	224	438.20	173	475.30	87
427.20	79	432.50	110	438.50	95	479.90	58
427.80	63	433.35	231	439.10	87	483.35	127
428.10	66	433.70	65	439.50	150	493.90	61
428.30	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		

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

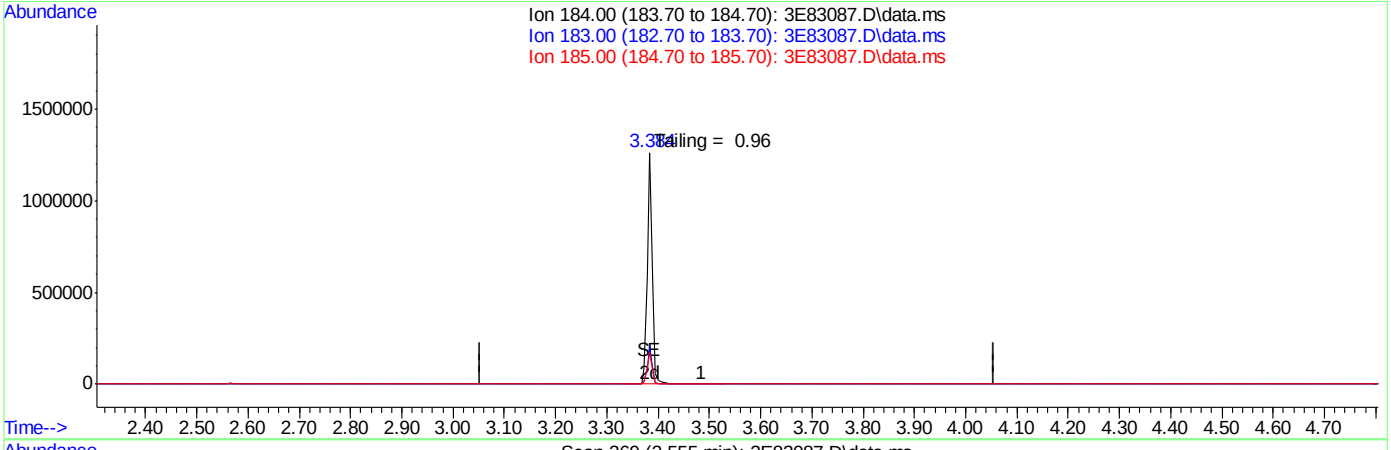
Ion	Exp%	Act%
265.80	100	100
263.80	62.20	67.01
267.80	64.70	67.40
0.00	0.00	0.00

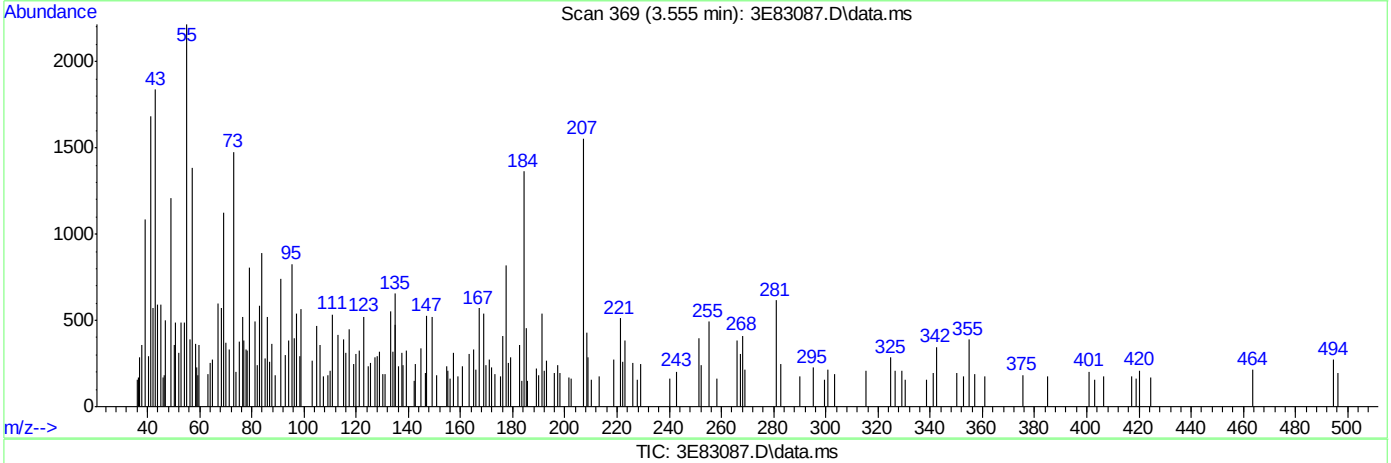
SGS ACCUTEST JC19473

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

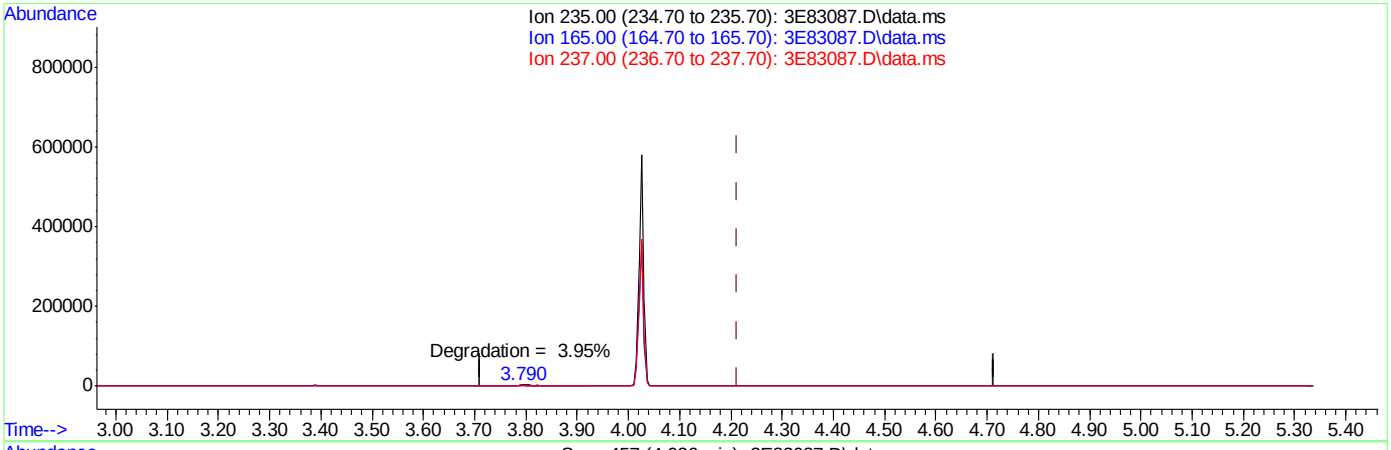
Ion	Exp%	Act%
184.00	100	0.00
183.00	13.20	0.00
185.00	15.40	0.00
0.00	0.00	0.00

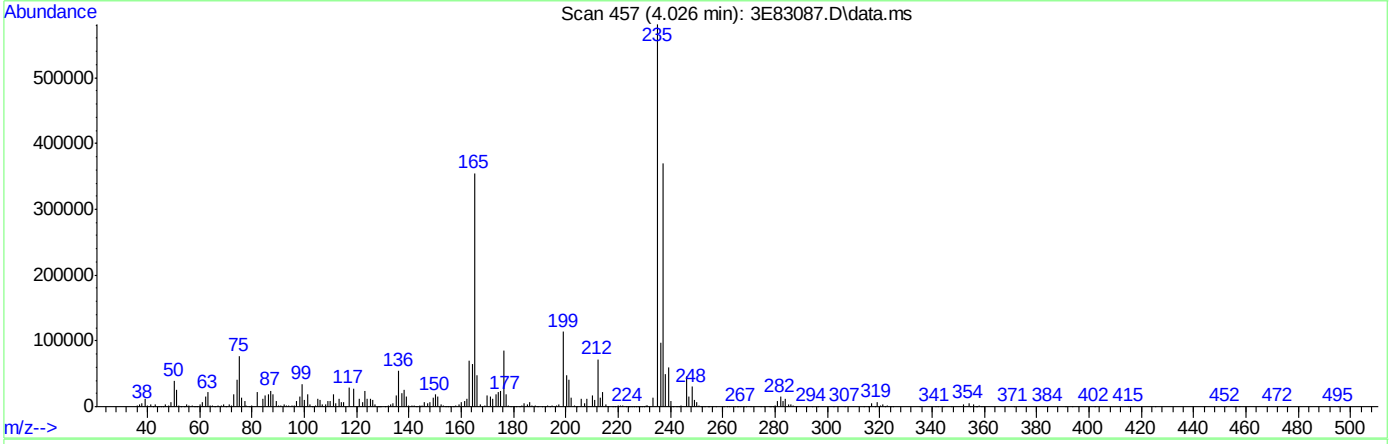
SGS ACCUTEST JC19473

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

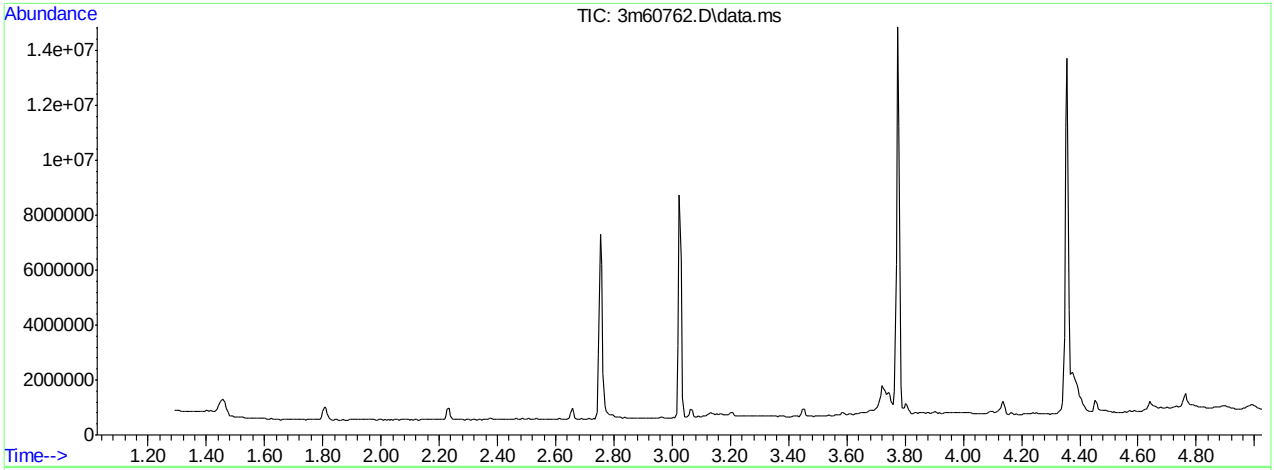
Ion	Exp%	Act%
235.00	100	100
165.00	0.10	62.44#
237.00	0.10	63.36#
0.00	0.00	0.00

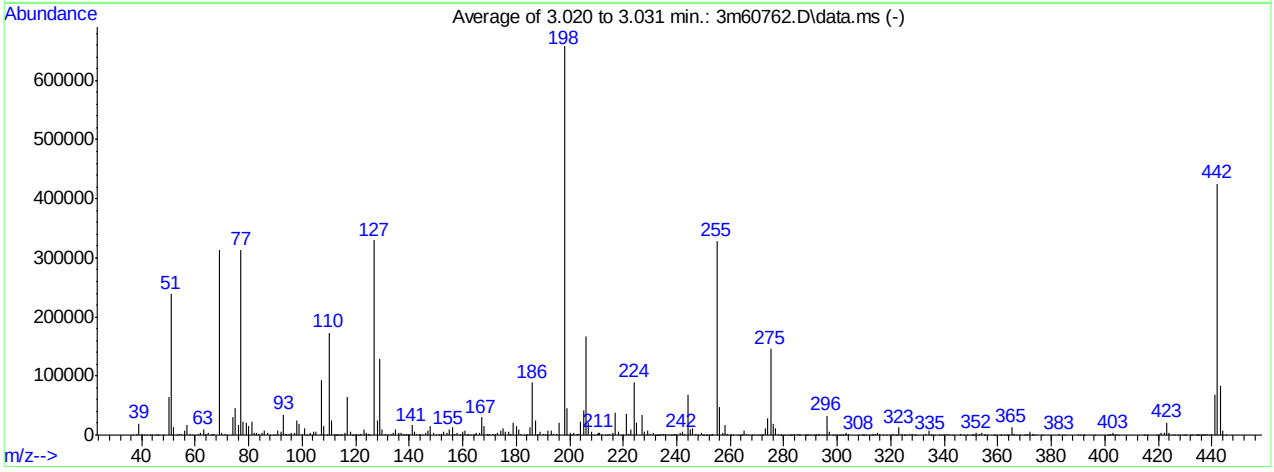
SGS ACCUTEST JC19473

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

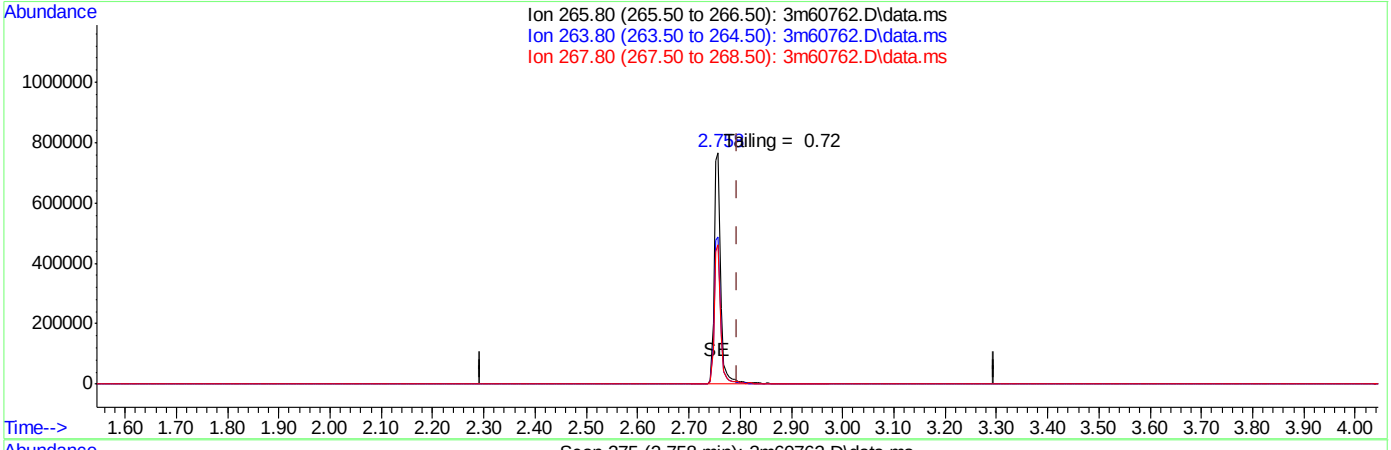
dftpp
Modified:subtracted

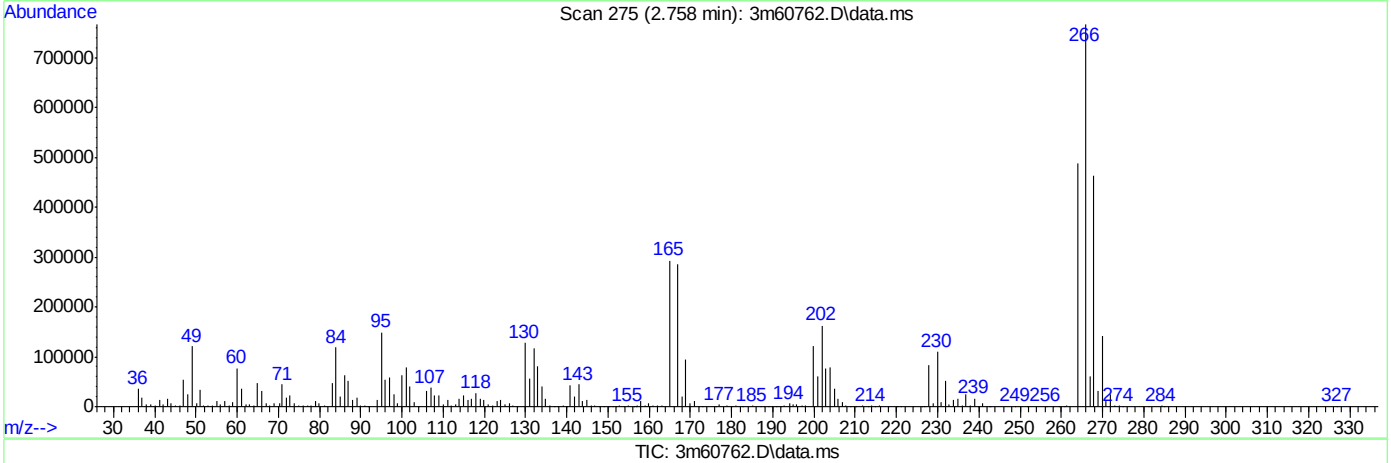
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.10	21736	432.90	494	438.80	912		
424.10	4461	433.85	400	439.90	2031		
425.00	512	434.50	189	441.10	68134		
426.10	183	434.80	226	442.10	425304		
427.20	203	435.40	731	443.10	83298		
428.30	259	435.90	455	444.10	7637		
429.50	82	436.25	476	445.10	306		
429.70	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

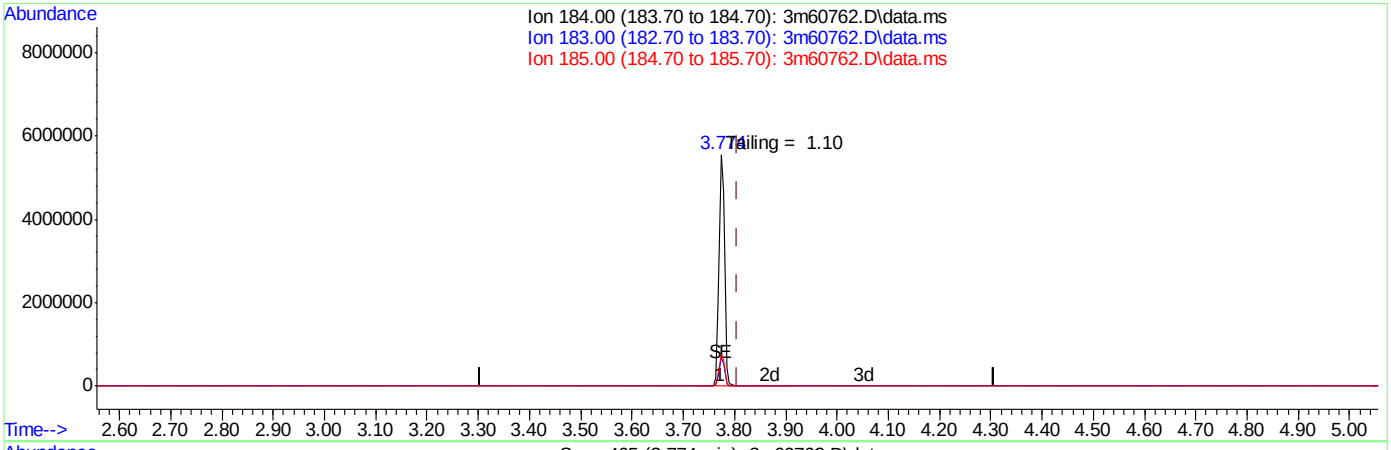
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	63.64
267.80	64.10	60.34
0.00	0.00	0.00

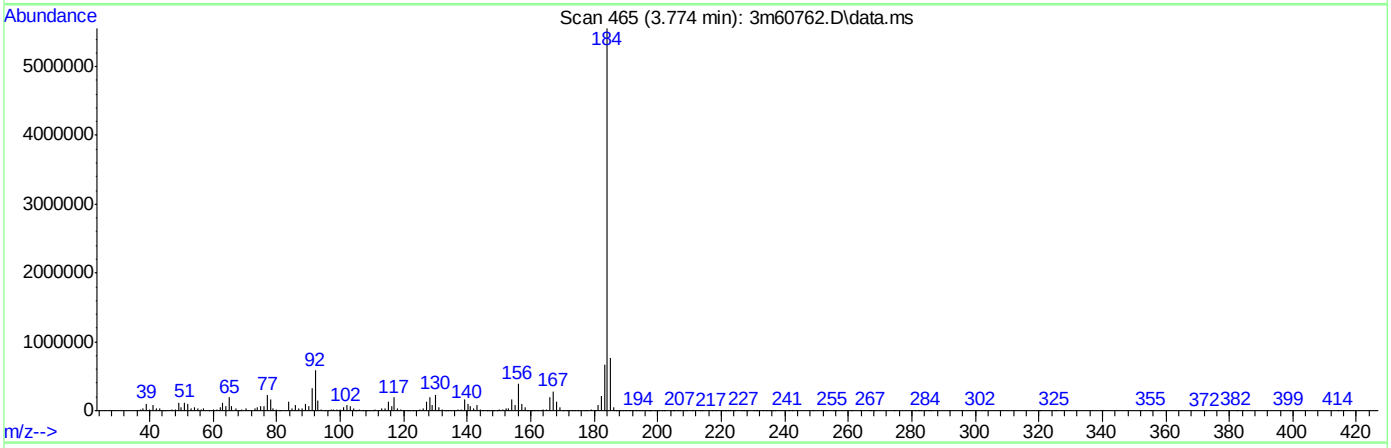
SGS ACCUTEST JC19473

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

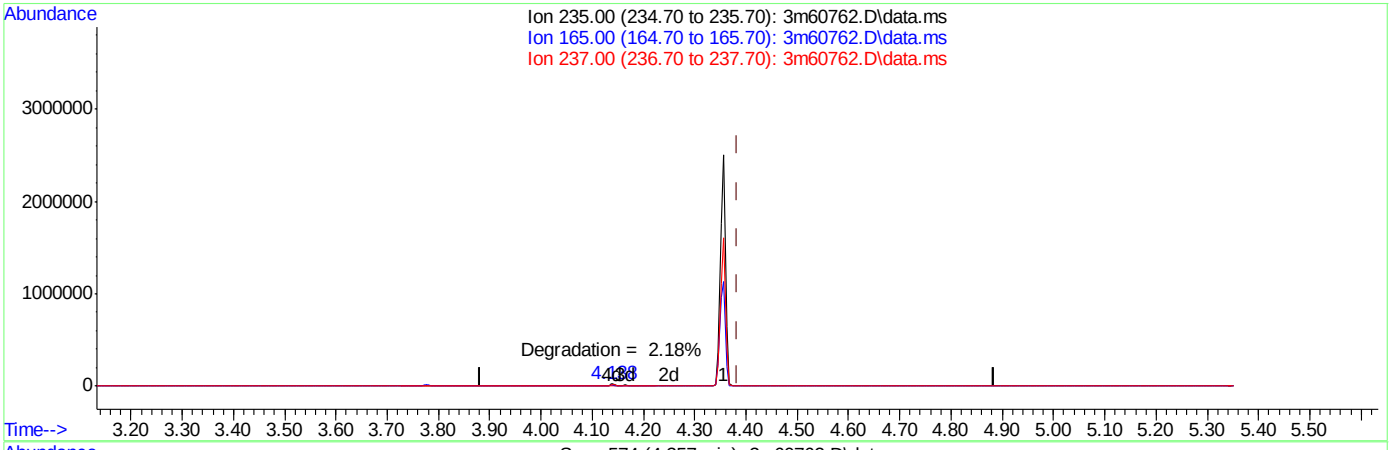
response 4170192

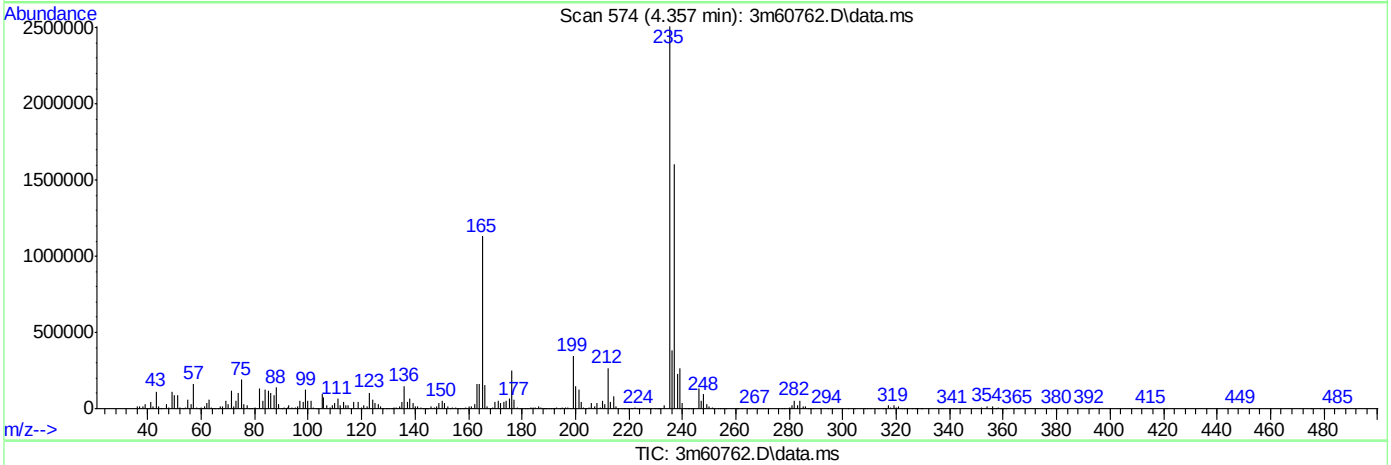
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	12.07
185.00	14.40	13.67
0.00	0.00	0.00

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

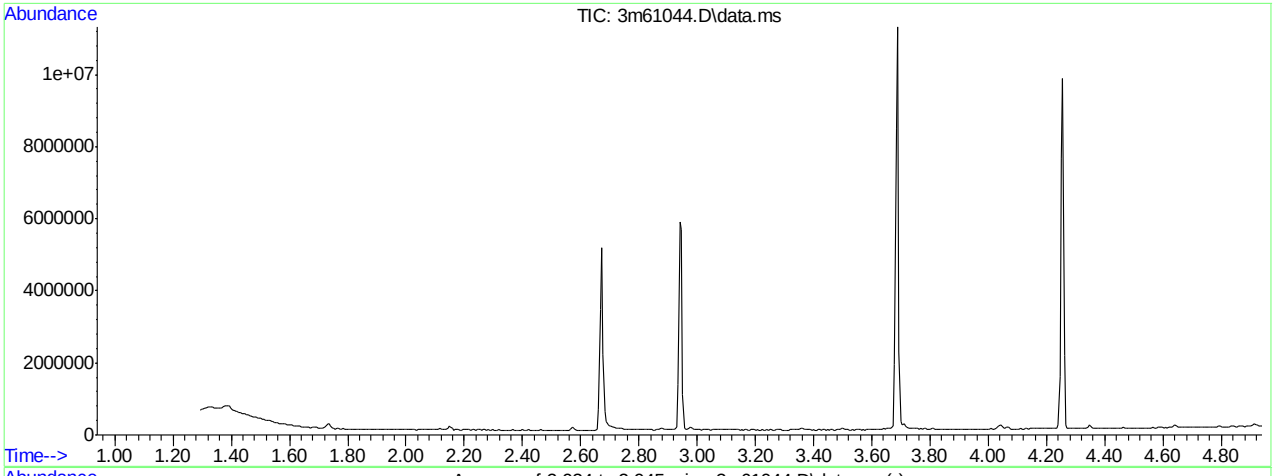
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	48.45#
237.00	0.00	63.48#
0.00	0.00	0.00

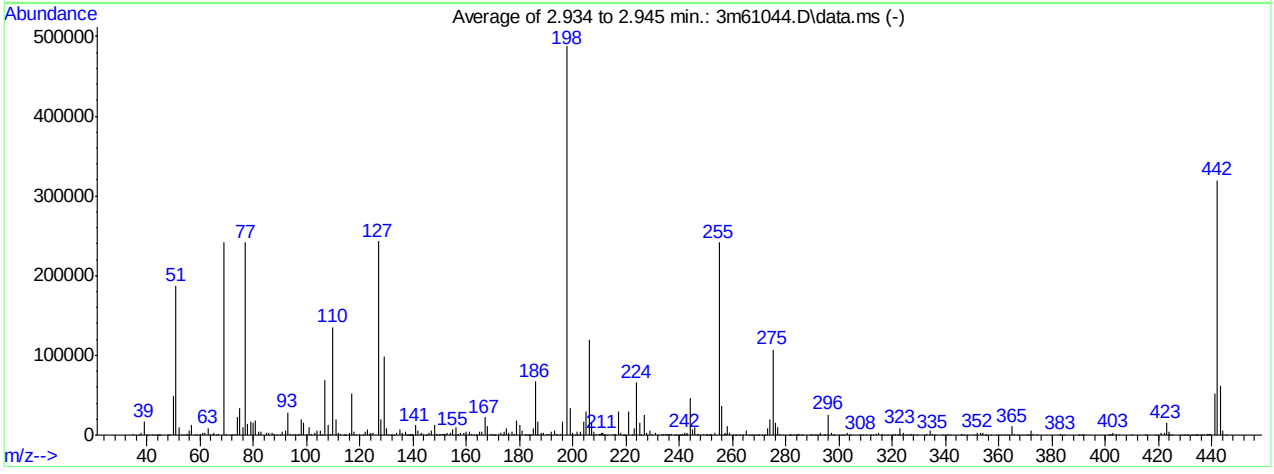
SGS ACCUTEST JC19473

DFTPP

Data File : C:\msdchem\1\DATA\E3M2870\3m61044.D Vial: 1
Acq On : 4 May 2016 9:09 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op93473a,e3m2870 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 308, 309, 310; Background Corrected with Scan 304

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.3	186724	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.5	241511	PASS
70	69	0.00	2	0.5	1105	PASS
127	198	40	60	49.9	243181	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	487461	PASS
199	198	5	9	6.8	33143	PASS
275	198	10	30	22.0	107275	PASS
365	198	1	100	2.2	10679	PASS
441	443	0.10	100	85.2	52316	PASS
442	198	40	100	65.5	319429	PASS
443	442	17	23	19.2	61400	PASS

3m61044.D DFTPP3M.M Wed May 04 12:46:45 2016 RPT1

Average of 2.934 to 2.945 min.: 3m61044.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	1732	44.80	200	56.00	5830	65.90	304
36.95	357	45.10	465	56.95	13248	66.95	975
38.00	2963	48.05	644	58.05	728	69.00	241511
39.00	16368	49.00	1824	59.05	420	70.05	1105
39.90	670	50.00	49896	60.05	805	71.15	635
40.15	94	51.00	186724	61.05	2650	71.80	109
41.00	115	52.10	9463	61.95	3170	72.10	278
42.15	230	52.90	471	62.95	8908	73.10	1938
43.00	26	54.05	442	64.05	1548	74.05	22553
43.80	671	55.00	281	64.90	655	75.00	34434
44.05	144	55.20	794	65.05	3370	76.15	9721

Average of 2.934 to 2.945 min.: 3m61044.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	241814	88.95	316	97.95	19748	107.95	12942
78.00	14688	90.10	80	98.95	15633	108.80	1190
79.00	16464	91.00	4150	100.00	1708	110.00	135301
80.05	14893	92.05	5045	101.00	9184	111.00	19864
81.00	18588	93.00	28727	102.00	803	112.05	2520
82.00	4211	93.90	1931	102.95	3097	113.00	1180
83.05	4174	94.60	253	103.95	6189	114.00	253
85.00	2840	95.10	132	105.05	6086	114.60	128
85.90	3538	96.15	1566	105.70	331	114.90	314
86.95	2935	96.60	303	106.20	332	116.05	2202
87.95	1280	97.05	1047	107.00	69451	117.00	51712

Average of 2.934 to 2.945 min.: 3m61044.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.05	4160	129.00	98941	137.90	342	144.75	557
118.80	194	130.00	8635	138.30	158	145.10	373
120.05	1164	131.05	2027	138.90	734	146.05	2326
121.10	343	131.80	747	139.10	269	146.95	6207
122.00	4932	132.00	470	139.40	135	148.05	12321
123.00	6730	133.10	528	139.70	173	148.90	1956
123.80	1378	134.00	3338	139.90	768	149.10	1233
124.10	2249	135.00	6748	141.00	12412	149.70	406
125.00	3034	136.05	2796	141.95	5007	150.05	1061
127.00	243181	137.10	3826	142.90	2553	151.00	1046
128.05	19528	137.70	638	143.95	799	151.35	1458

Average of 2.934 to 2.945 min.: 3m61044.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.80	70	161.05	4933	170.60	505	180.05	12402
152.00	1017	161.95	1524	170.90	738	181.05	5875
152.95	3419	163.00	509	171.95	2154	182.05	1126
153.95	3204	163.70	496	173.05	2520	182.75	229
155.00	6791	163.90	341	173.90	334	183.20	236
156.10	9933	164.95	3813	174.05	3822	184.00	1321
156.80	313	165.95	3591	175.00	8520	184.30	236
157.20	1566	167.00	22414	176.00	3242	185.05	8537
158.00	2370	167.95	11278	177.00	4681	186.00	66848
158.95	2176	169.05	1852	177.85	1614	186.90	1477
160.00	3647	169.90	865	179.00	18494	187.05	16677

Average of 2.934 to 2.945 min.: 3m61044.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.10	2250	196.05	17413	206.05	119244	213.00	396
188.90	2618	198.00	487461	207.05	15997	214.95	1517
189.10	1807	199.00	33143	208.00	4486	215.90	1296
190.15	799	200.00	2703	208.95	1110	217.00	29168

190.95	1945	200.85	556	210.10	1164	217.95	3387
191.80	335	201.45	3808	210.30	1326	218.90	197
192.00	4842	201.70	405	211.00	2758	219.20	360
193.05	6031	202.30	691	211.20	2377	219.90	438
193.90	153	202.95	3684	211.50	123	221.05	29308
194.10	1512	204.05	16918	211.90	568	222.10	356
195.10	806	205.05	29486	212.20	533	222.95	8243

Average of 2.934 to 2.945 min.: 3m61044.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.05	66022	234.80	295	241.05	993	248.00	549
225.05	16204	235.05	1597	241.40	533	249.00	1961
225.70	224	235.75	761	241.90	182	249.90	108
227.00	25317	236.20	1333	242.05	3192	250.10	291
227.90	3079	236.80	882	242.70	364	250.40	121
228.95	5585	237.15	1293	243.00	2332	251.10	603
230.00	850	238.10	366	244.10	46681	251.30	220
231.15	2431	239.00	1455	245.10	6772	251.70	529
232.05	673	240.05	740	246.00	9186	252.10	1079
233.05	489	240.50	91	246.80	80	253.20	2451
233.90	1767	240.80	633	247.05	1528	255.00	241347

Average of 2.934 to 2.945 min.: 3m61044.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.05	36867	263.90	556	272.20	529	282.95	733
256.90	277	265.00	5168	273.05	7931	283.80	281
257.15	3325	265.95	439	274.05	20320	284.00	676
257.80	794	266.70	236	275.10	107275	284.30	158
258.00	11603	267.20	106	276.05	15077	284.70	82
259.00	2549	268.00	305	277.05	9374	285.05	1651
260.00	293	269.10	232	278.00	1634	285.80	233
260.95	504	269.70	125	279.00	378	286.20	123
261.20	251	269.95	373	281.00	333	289.05	374
262.60	226	270.95	727	281.80	161	289.60	229
262.80	149	271.90	96	282.10	184	290.15	355

Average of 2.934 to 2.945 min.: 3m61044.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.95	205	298.20	263	310.05	352	321.15	1134
291.40	87	300.30	321	311.80	87	321.90	291
292.05	644	300.80	282	312.90	354	322.10	564
292.90	96	301.70	210	313.90	972	322.90	407
293.05	2761	301.90	435	314.20	874	323.05	8455
294.10	610	303.05	3232	315.05	3416	324.10	2294
294.50	280	303.80	619	315.95	1770	325.00	96
294.80	130	304.20	491	316.95	268	325.85	384
296.05	25830	307.60	252	318.20	106	326.70	75
297.00	3462	308.15	388	319.90	77	326.95	1760
298.00	125	308.90	281	320.50	249	327.80	85

Average of 2.934 to 2.945 min.: 3m61044.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
328.00	820	345.85	689	357.10	107	369.95	516
329.10	230	346.10	1007	359.00	128	370.90	438
332.00	530	347.05	520	360.10	242	371.10	603
333.10	1273	348.10	87	360.90	80	372.05	5084
334.05	5856	350.80	290	362.00	126	372.95	1264
335.10	1628	352.05	3051	362.90	390	374.10	235
336.10	250	353.00	2165	363.80	395	382.85	487
338.85	183	353.70	94	365.00	10679	383.10	800
339.90	138	354.10	3085	365.90	2043	384.15	508
341.05	1297	354.90	160	367.20	102	389.80	201
341.95	414	355.10	624	368.60	85	390.20	460

Average of 2.934 to 2.945 min.: 3m61044.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
390.95	360	415.00	156	428.60	126	434.80	219
391.40	92	415.40	79	429.40	210	435.50	291
392.00	395	418.80	102	429.80	83	435.90	161
401.00	225	419.80	80	430.45	343	436.55	448
401.40	187	421.00	2230	430.90	124	437.10	644
402.00	1915	422.10	2458	432.20	150	438.20	293
402.50	79	423.05	14996	432.80	160	438.40	808
403.05	2946	423.70	95	433.10	92	438.70	419
403.95	990	424.05	3687	433.80	489	438.90	1226
404.90	139	424.30	154	434.20	269	439.50	804
409.90	217	425.05	395	434.50	134	441.10	52316

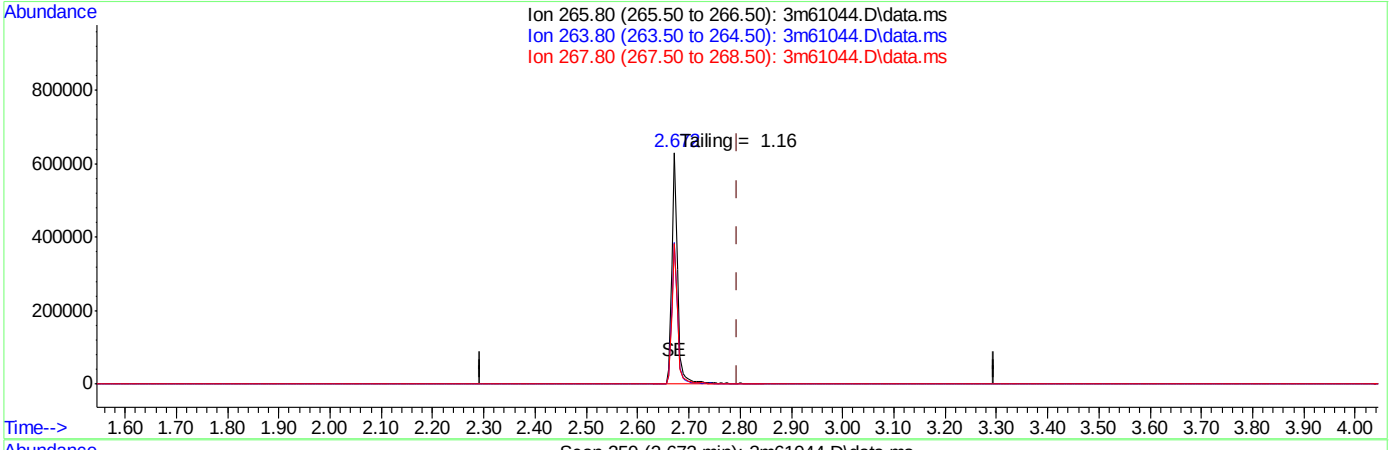
Average of 2.934 to 2.945 min.: 3m61044.D\data.ms
dftpp
Modified:subtracted

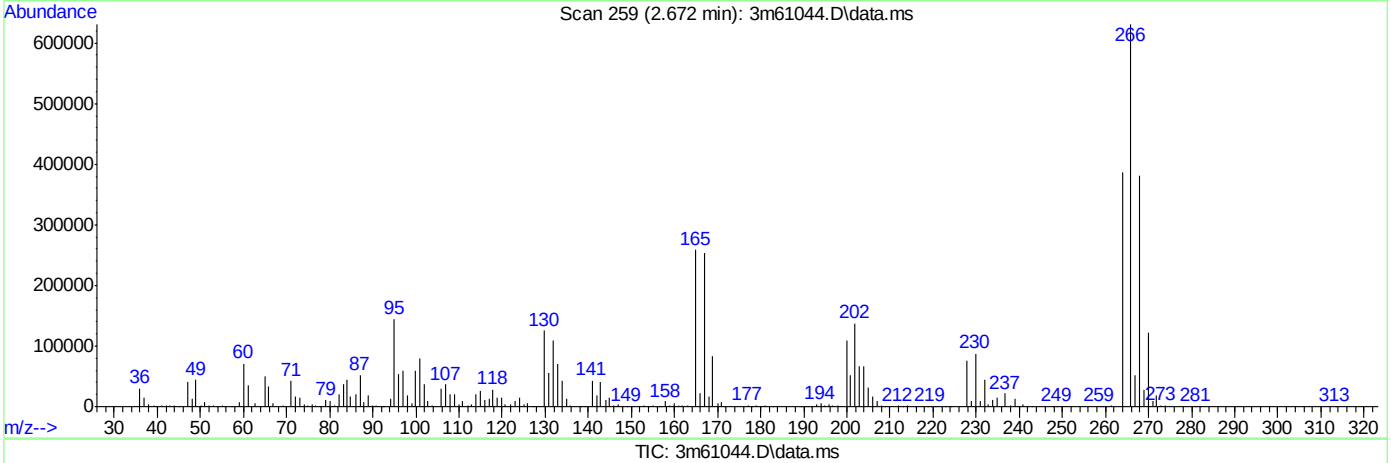
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
442.10	319429						
443.10	61400						
444.10	4999						
445.20	332						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61044.D
Acq On : 4 May 2016 9:09 am
Operator : linseyk
Sample : dftpp
Misc : op93473a,e3m2870
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:13:13 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: 3m61044.D\data.ms

(1) Pentachlorophenol (t)

2.672min (-0.123) 130.71ppb

response 482082

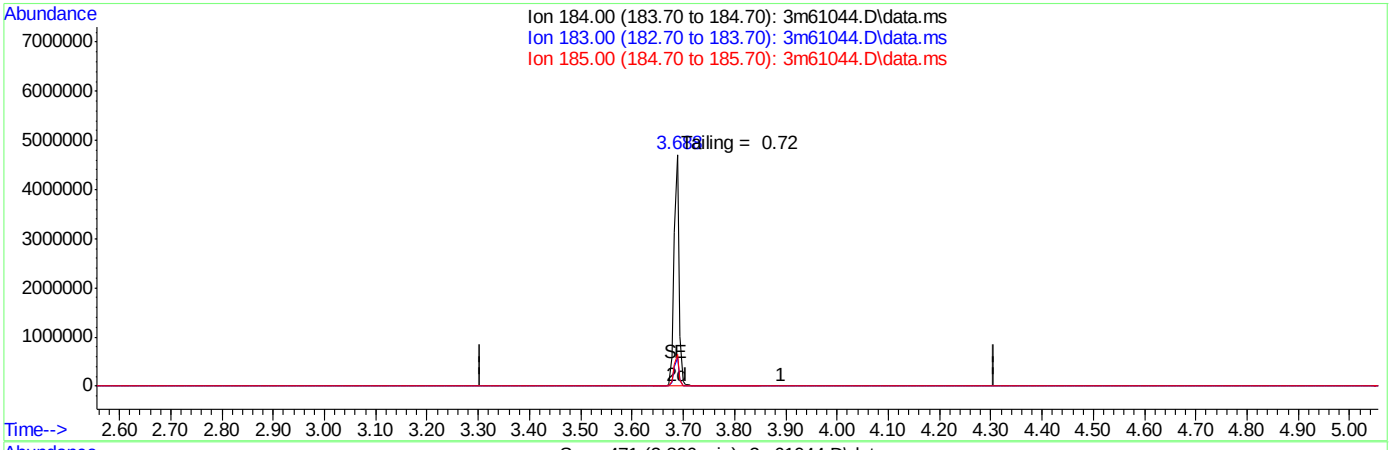
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	61.15
267.80	64.10	60.51
0.00	0.00	0.00

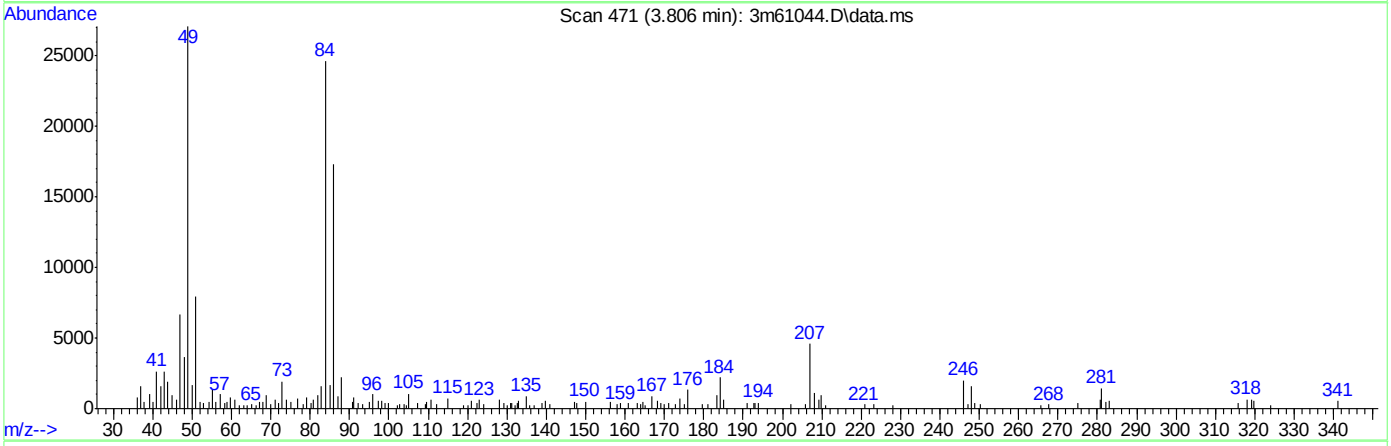
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61044.D
Acq On : 4 May 2016 9:09 am
Operator : linseyk
Sample : dftpp
Misc : op93473a,e3m2870
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:13:13 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: 3m61044.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

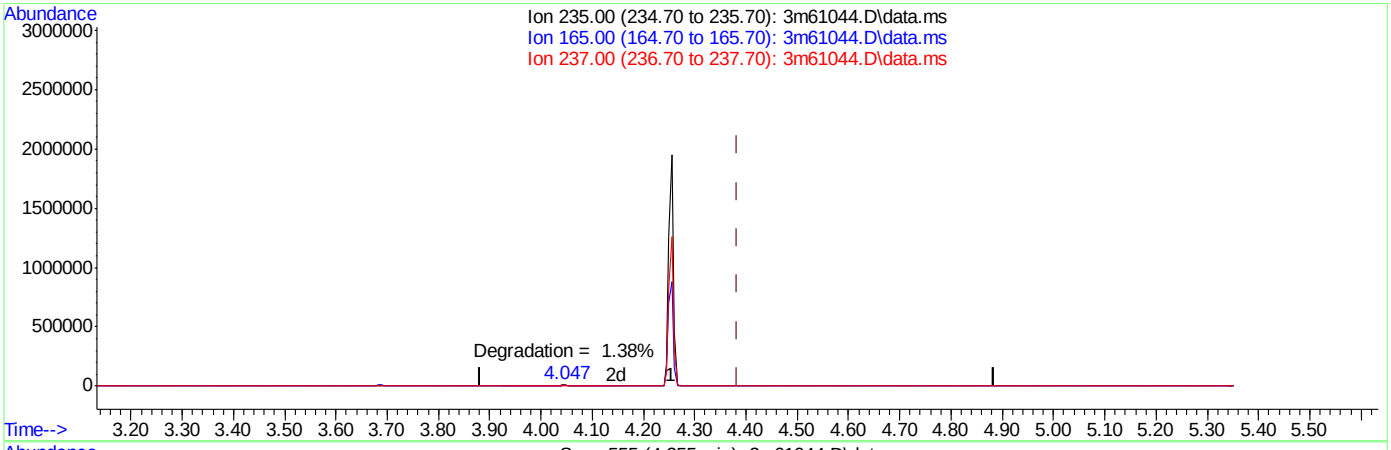
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

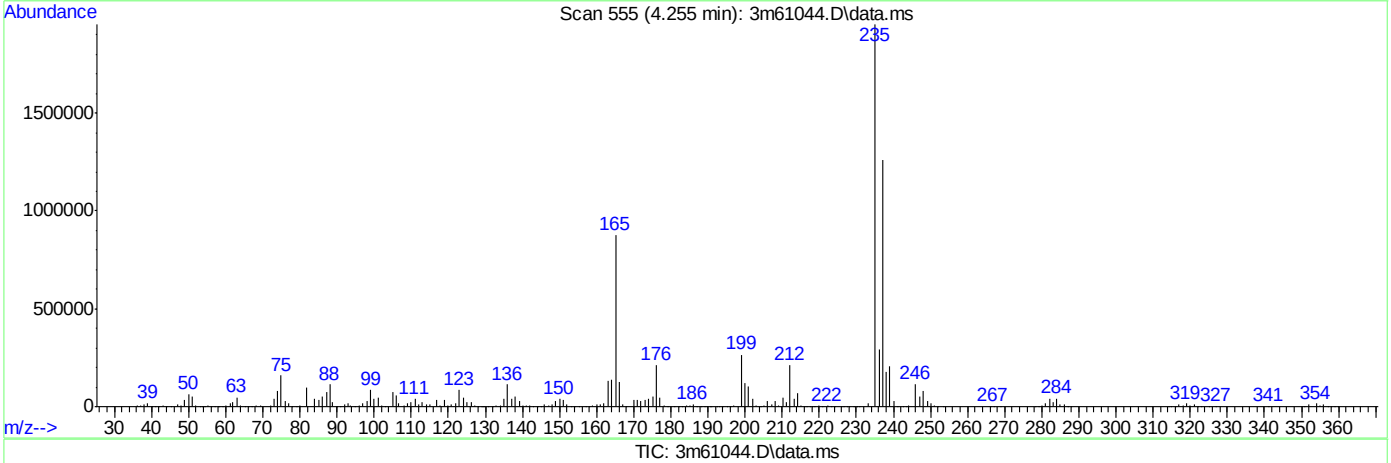
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61044.D
Acq On : 4 May 2016 9:09 am
Operator : linseyk
Sample : dftpp
Misc : op93473a,e3m2870
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:13:13 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: 3m61044.D\data.ms

(3) PP-DDT (t)

4.255min (-0.128) 167.18ppb

response 1245263

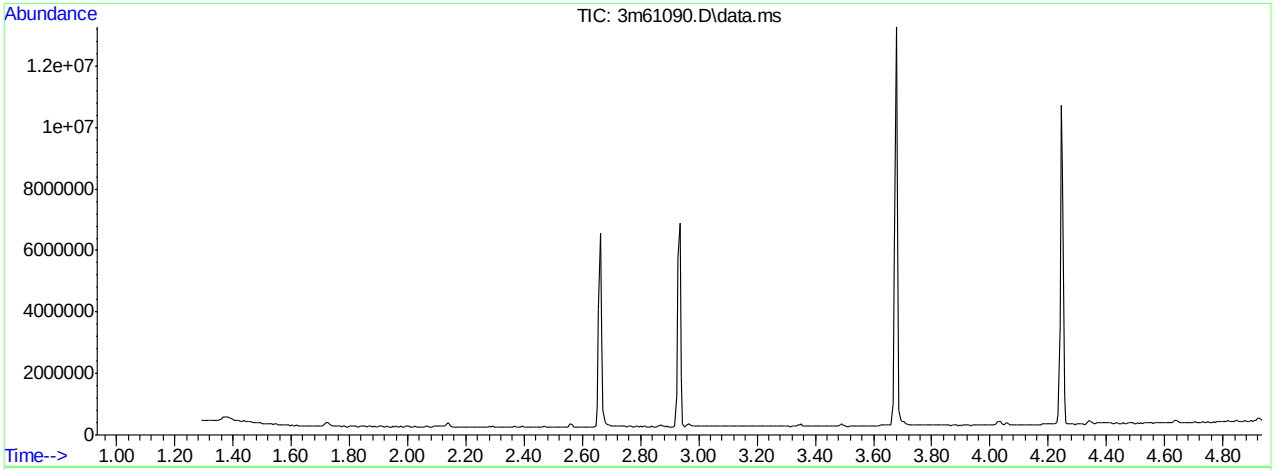
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	48.50#
237.00	0.00	64.97#
0.00	0.00	0.00

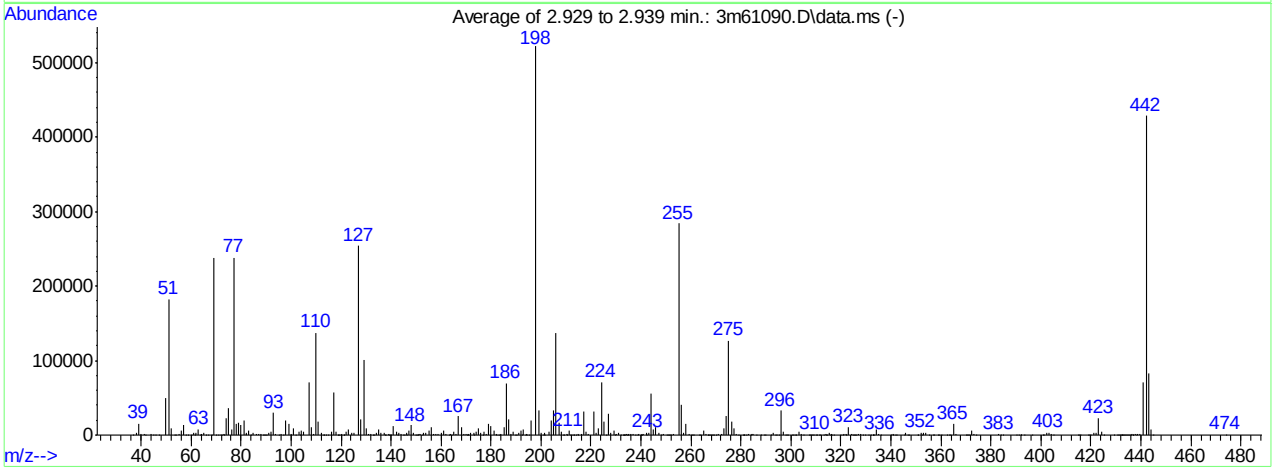
SGS ACCUTEST JC19473

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

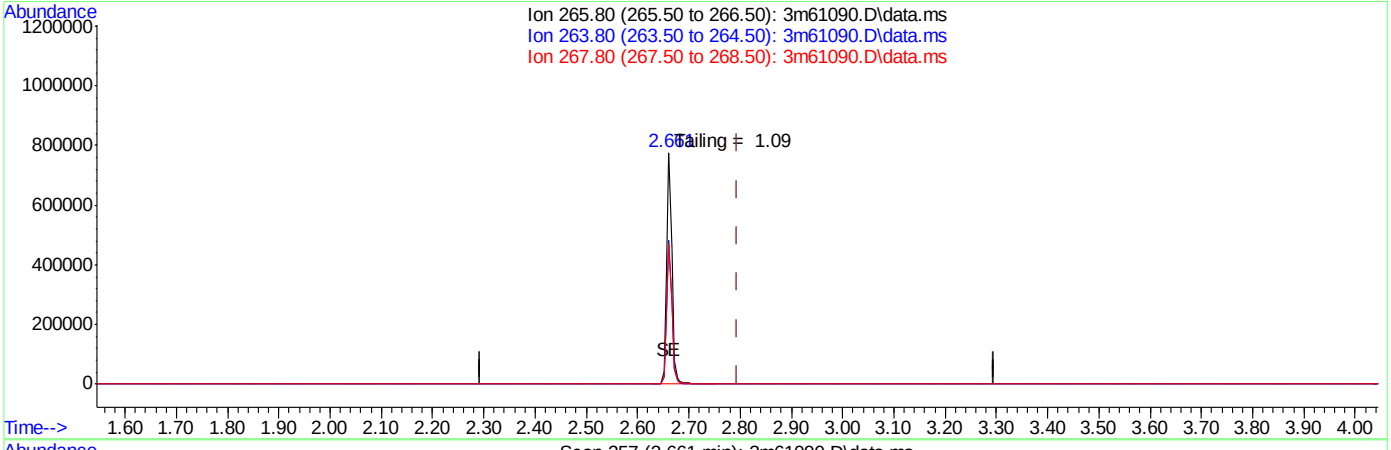
Average of 2.929 to 2.939 min.: 3m61090.D\data.ms
dftpp
Modified:subtracted

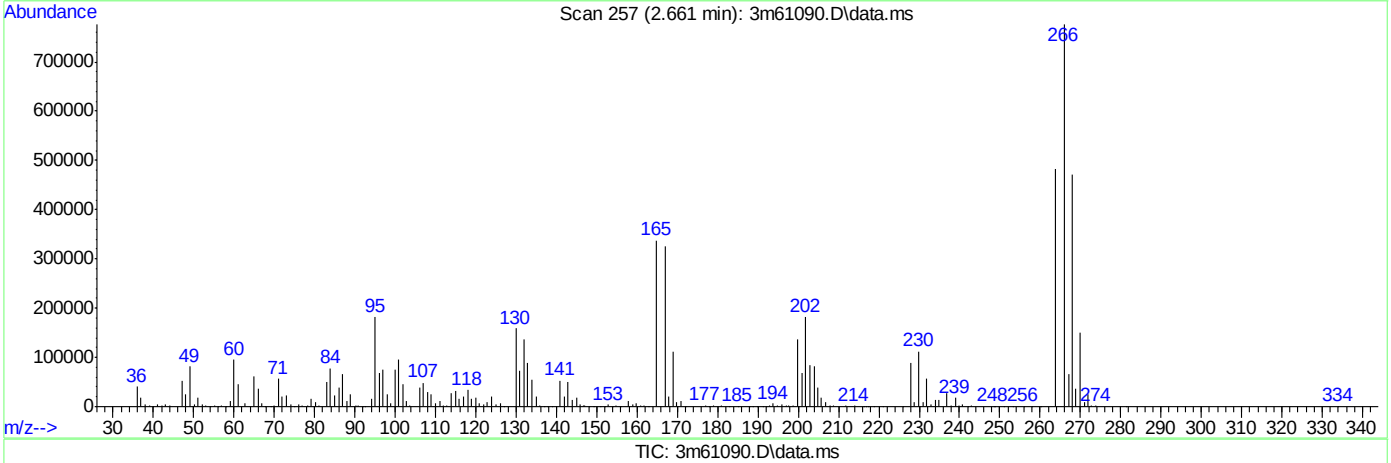
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
438.75	1603						
439.45	1936						
441.10	70469						
442.10	428309						
443.10	83293						
444.10	7896						
445.05	369						
473.90	100						

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





(1) Pentachlorophenol (t)

2.661min (-0.134) 154.27ppb

response 568985

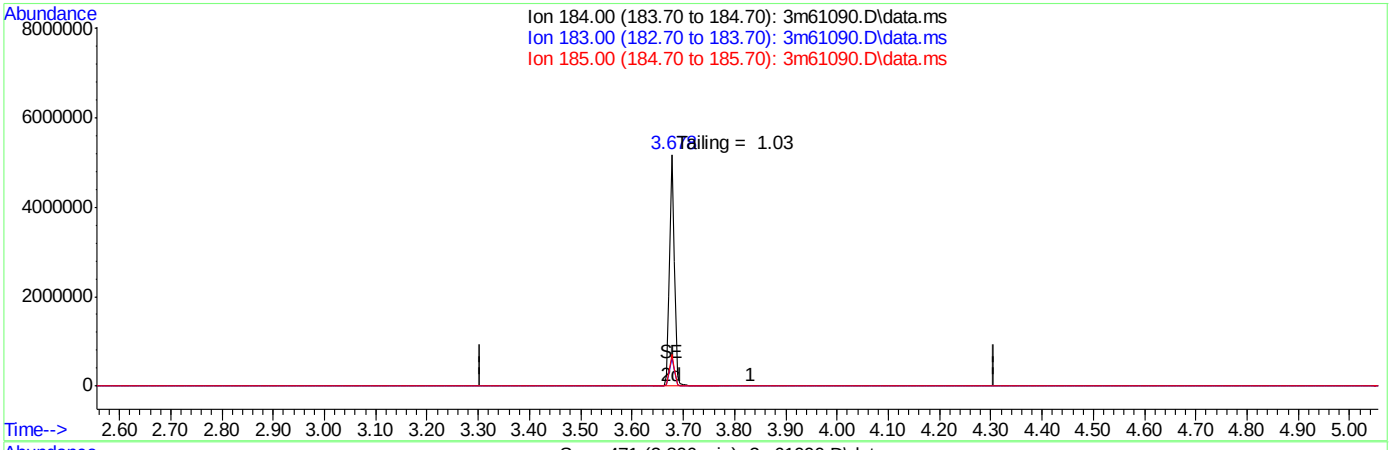
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	62.10
267.80	64.10	60.76
0.00	0.00	0.00

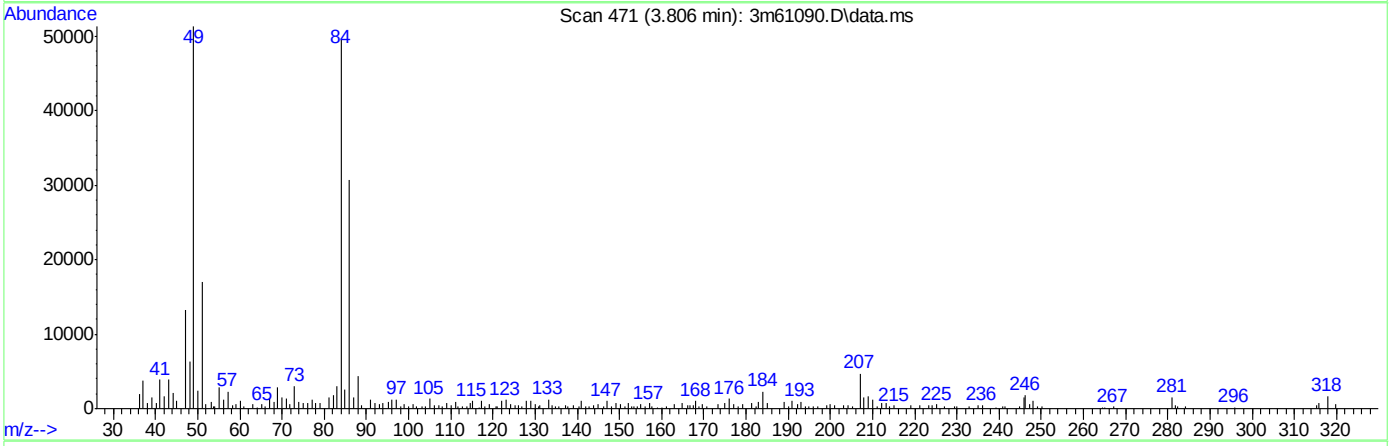
SGS ACCUTEST JC19473

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

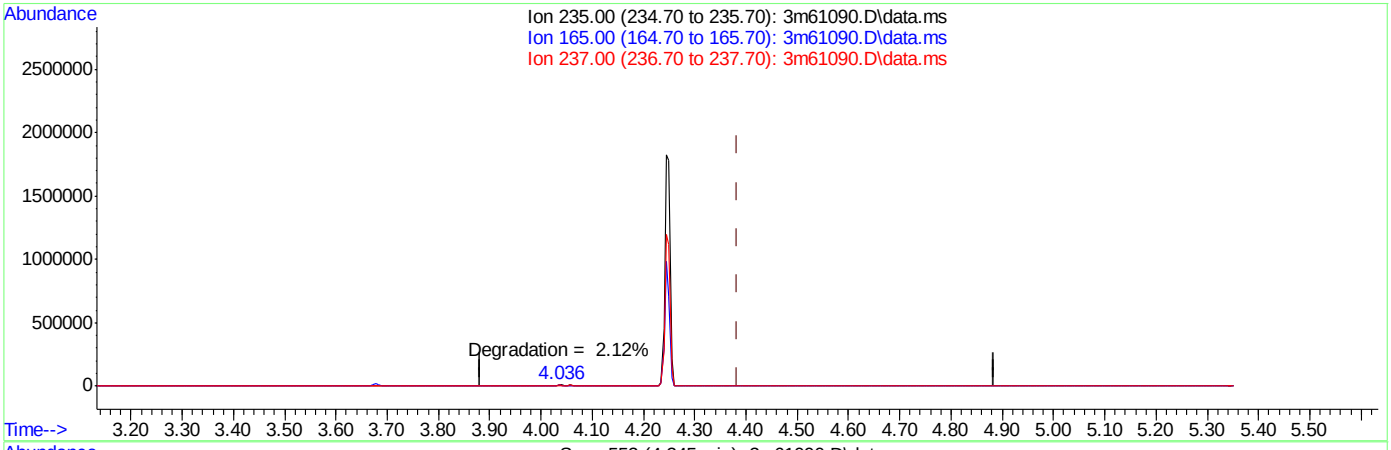
response 0

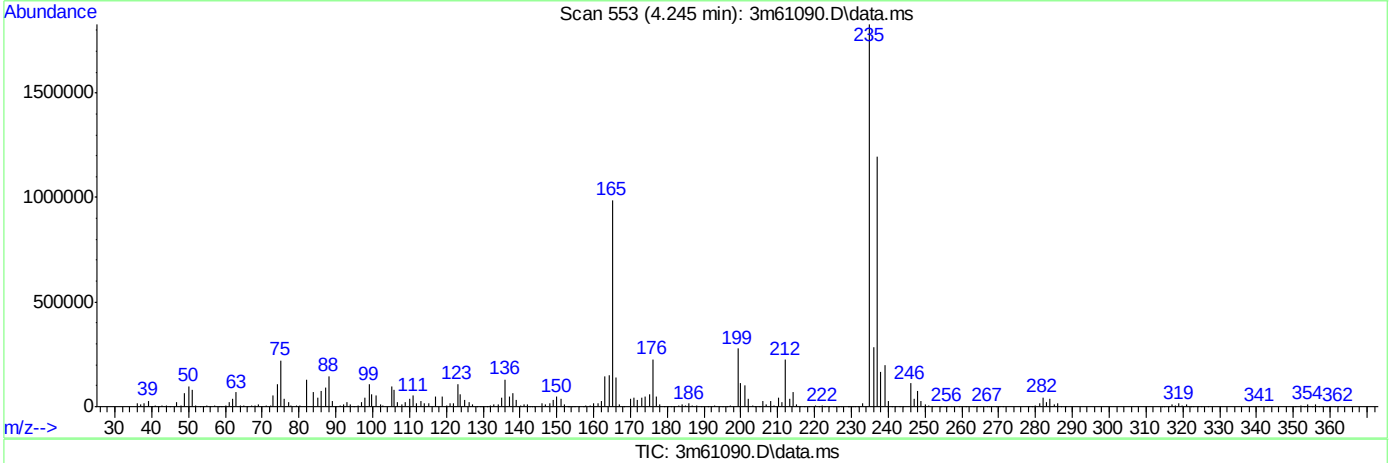
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

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

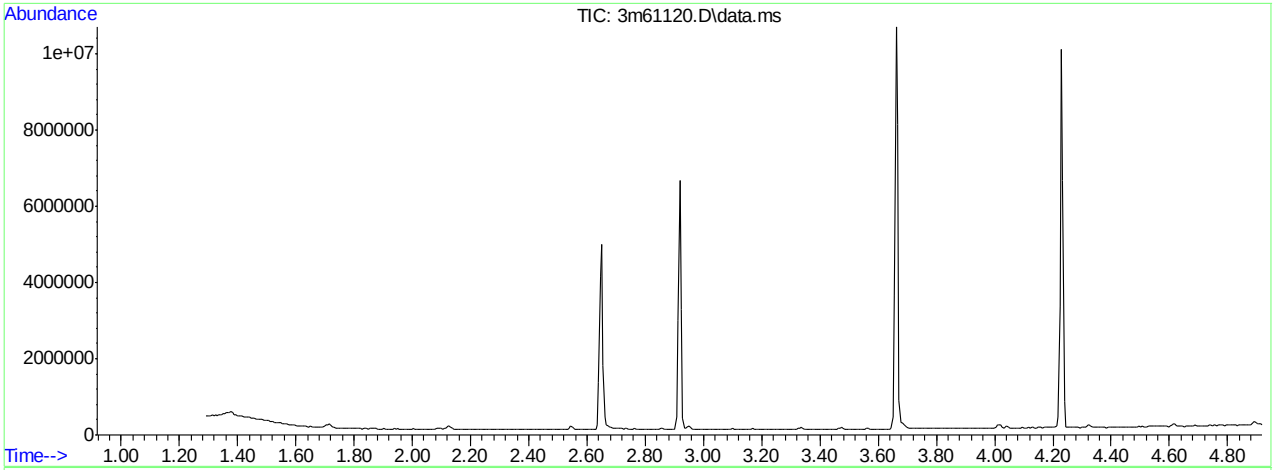
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	48.44#
237.00	0.00	64.36#
0.00	0.00	0.00

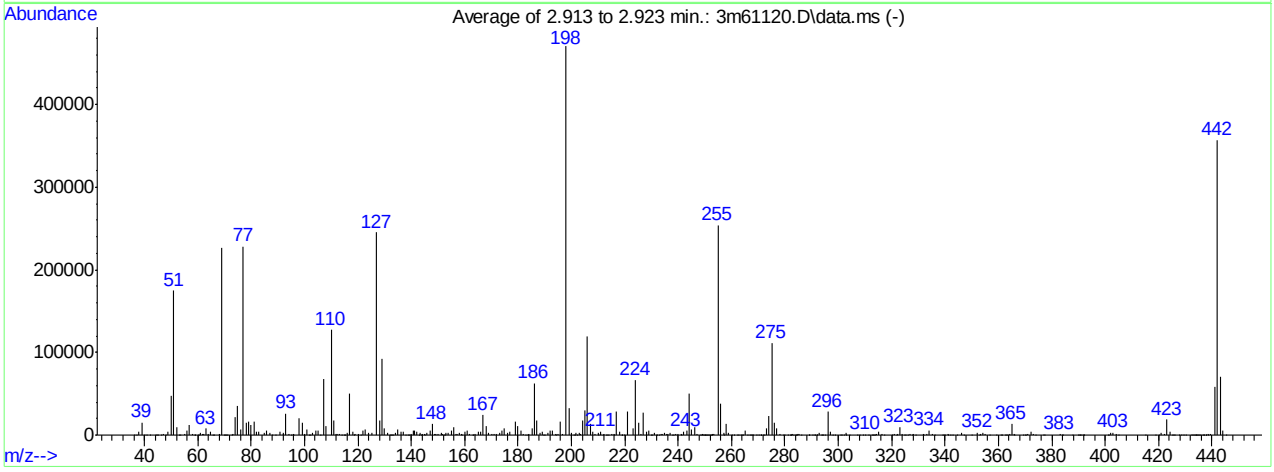
SGS ACCUTEST JC19473

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

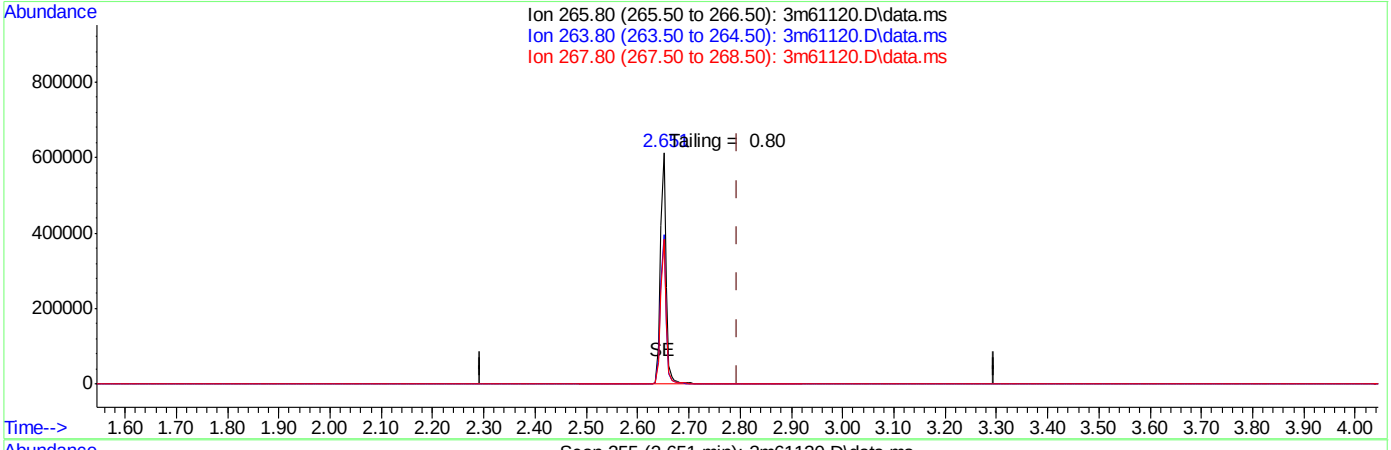
Average of 2.913 to 2.923 min.: 3m61120.D\data.ms
dftpp
Modified:subtracted

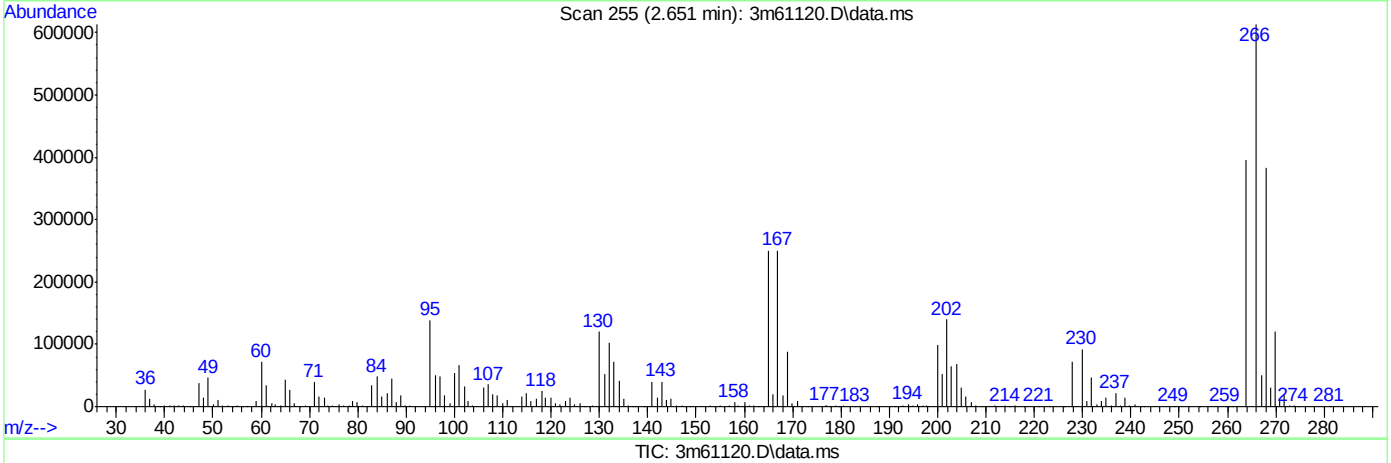
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
435.60	100	443.10	69960				
436.30	174	444.10	5994				
436.70	341	445.10	658				
436.95	512						
437.60	269						
437.90	658						
438.50	166						
438.75	1795						
439.35	1635						
441.10	57951						
442.10	356808						

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

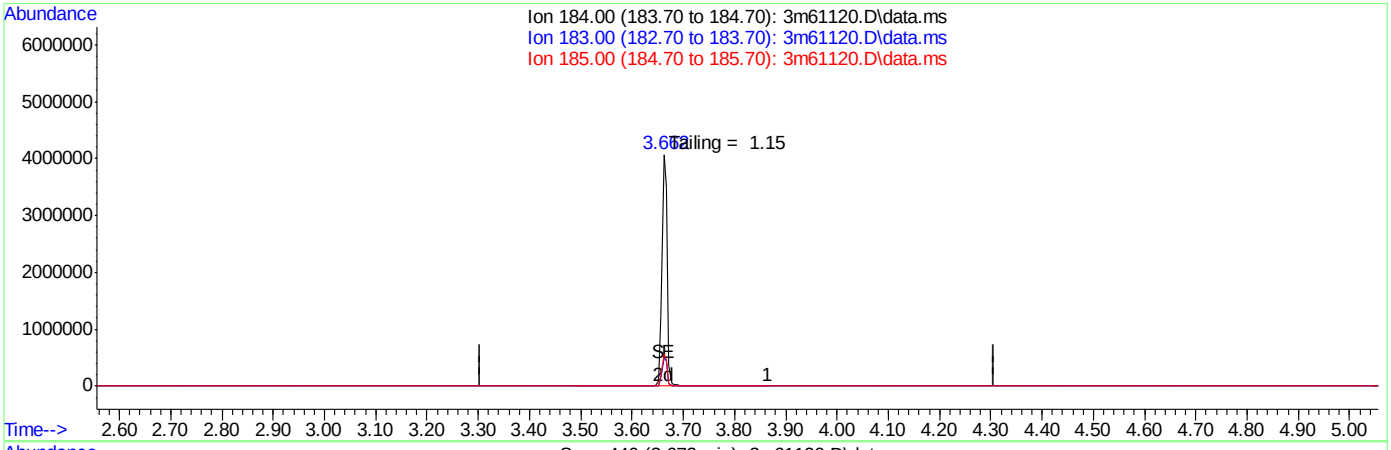
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	64.53
267.80	64.10	62.32
0.00	0.00	0.00

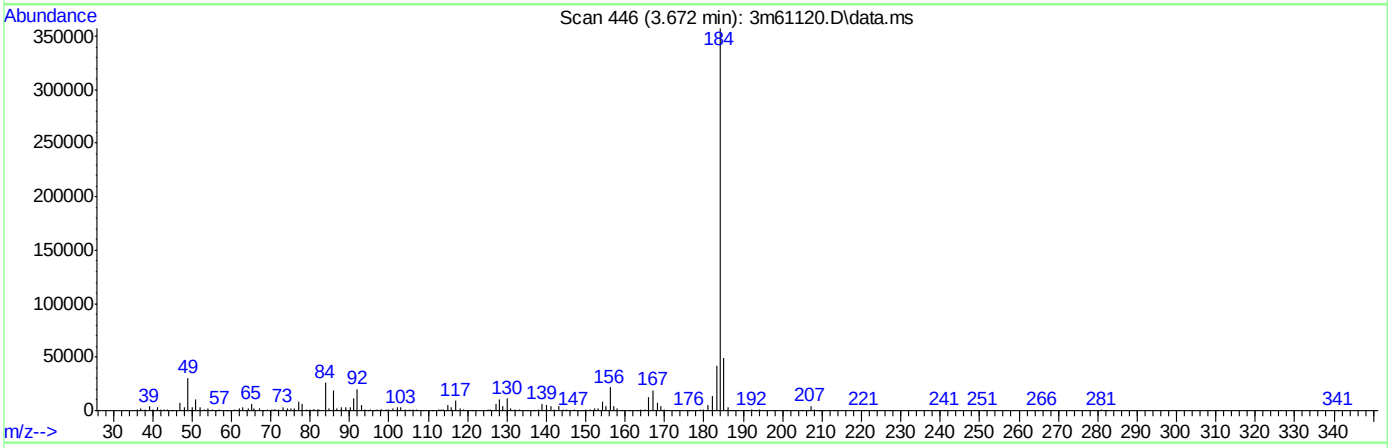
SGS ACCUTEST JC19473

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

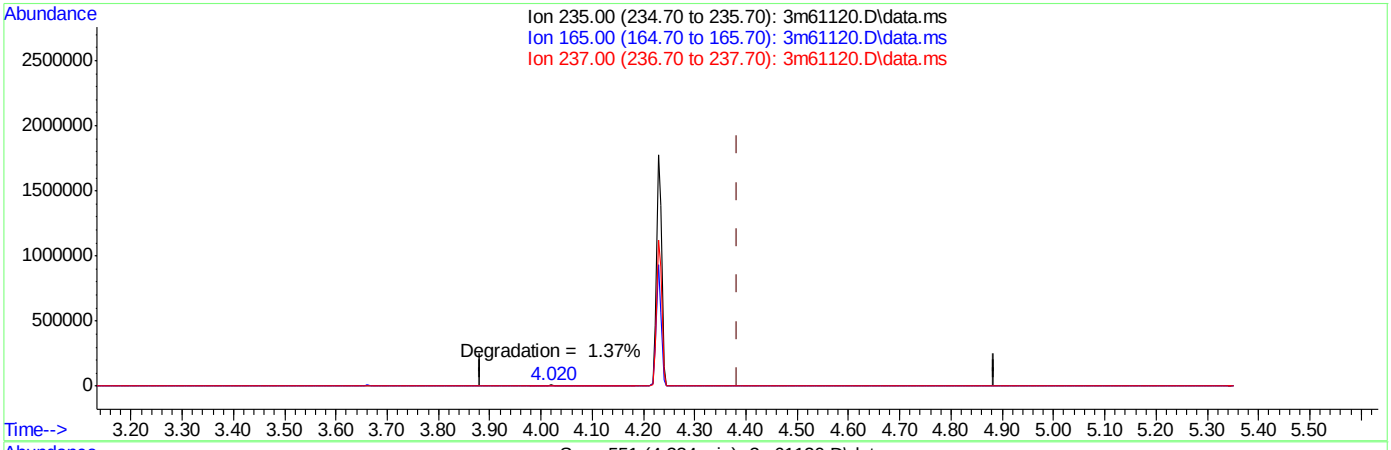
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

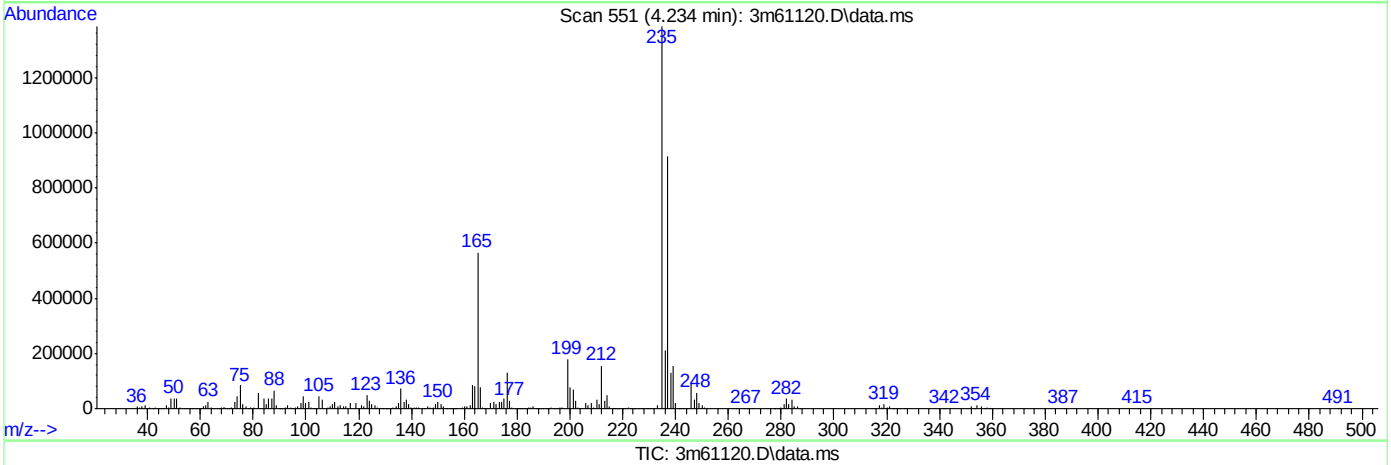
SGS ACCUTEST JC19473

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

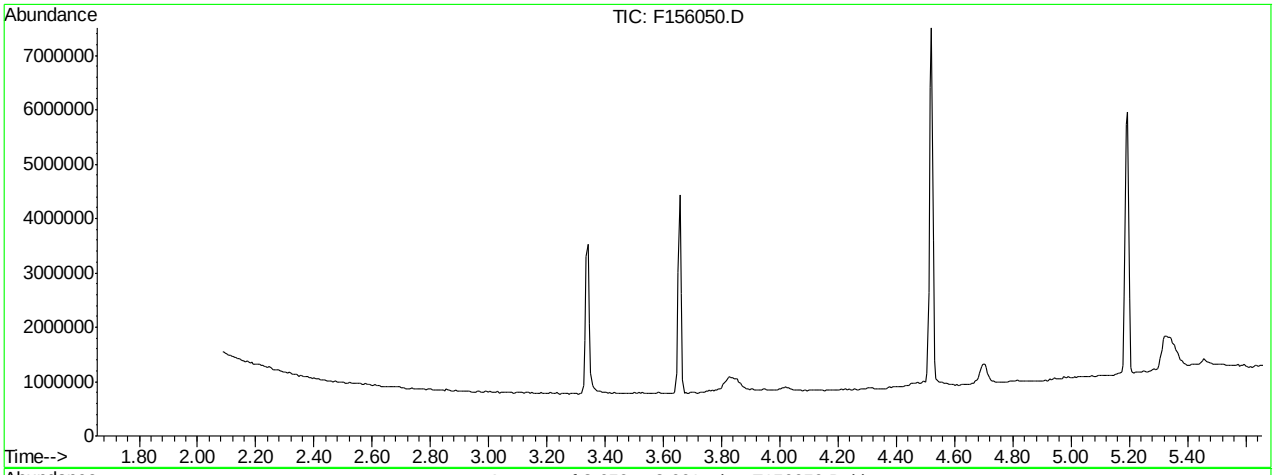
response 1223897

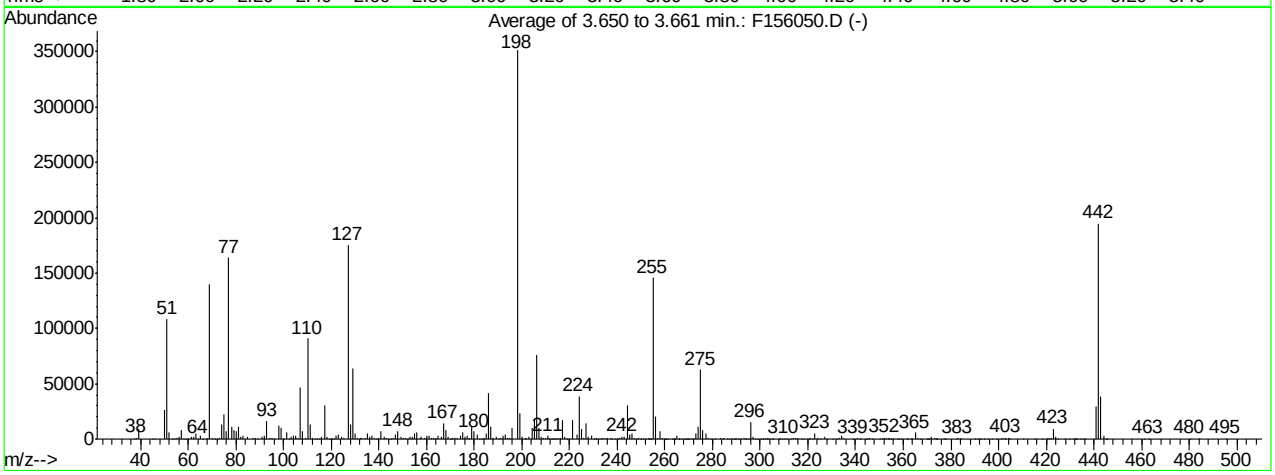
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	49.16#
237.00	0.00	64.33#
0.00	0.00	0.00

SGS ACCUTEST JC19473

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

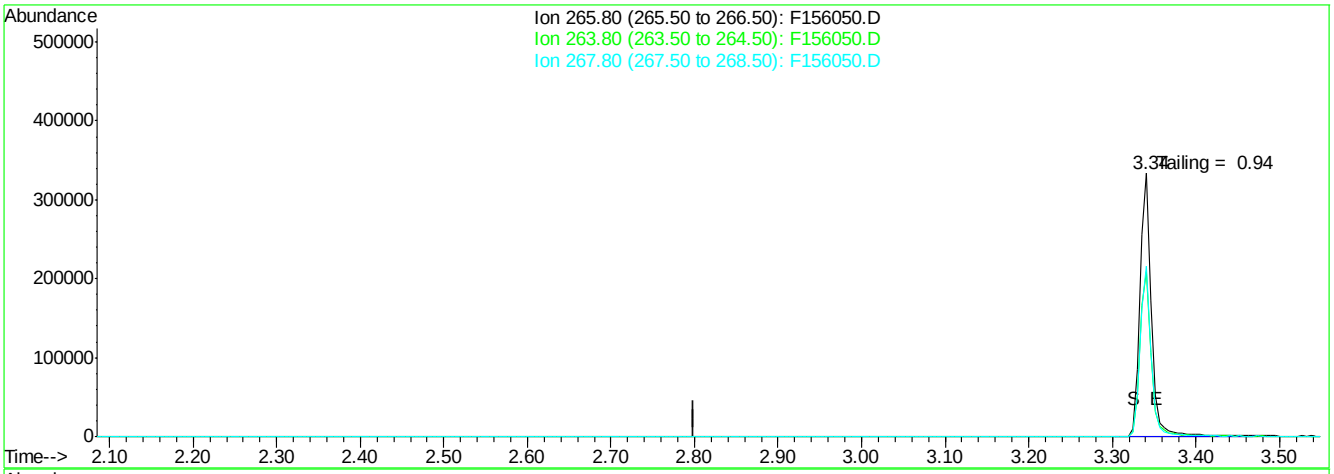
Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

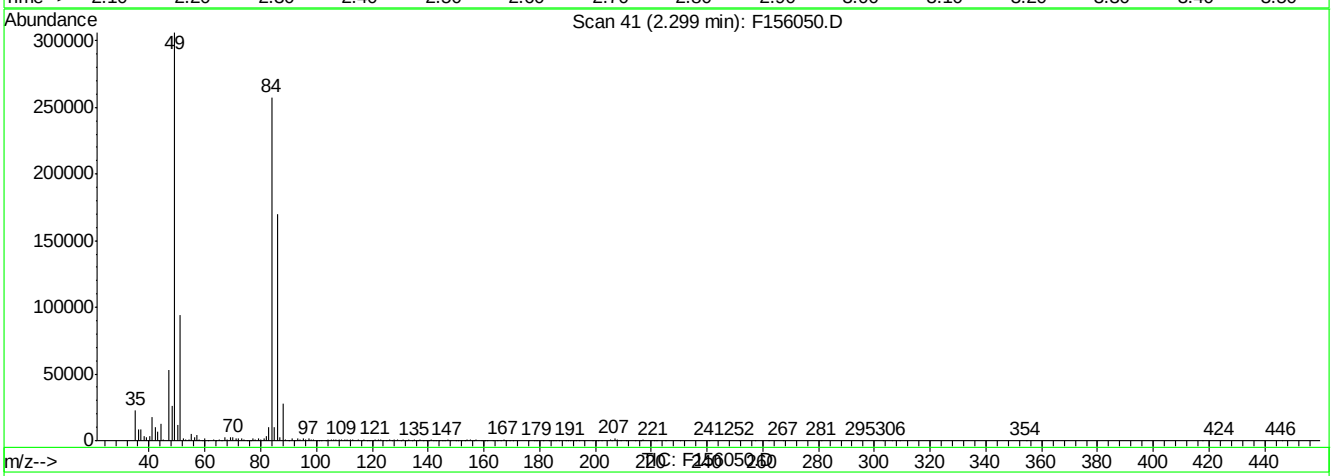
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
404.00	584	427.70	83	443.00	38575		
404.80	65	429.40	79	444.05	3498		
410.40	50	431.40	71	445.05	222		
415.10	112	432.10	134	445.50	51		
418.40	66	432.50	63	461.20	56		
420.90	861	432.90	122	463.00	83		
421.10	526	434.30	156	480.40	92		
421.95	1059	435.20	63	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

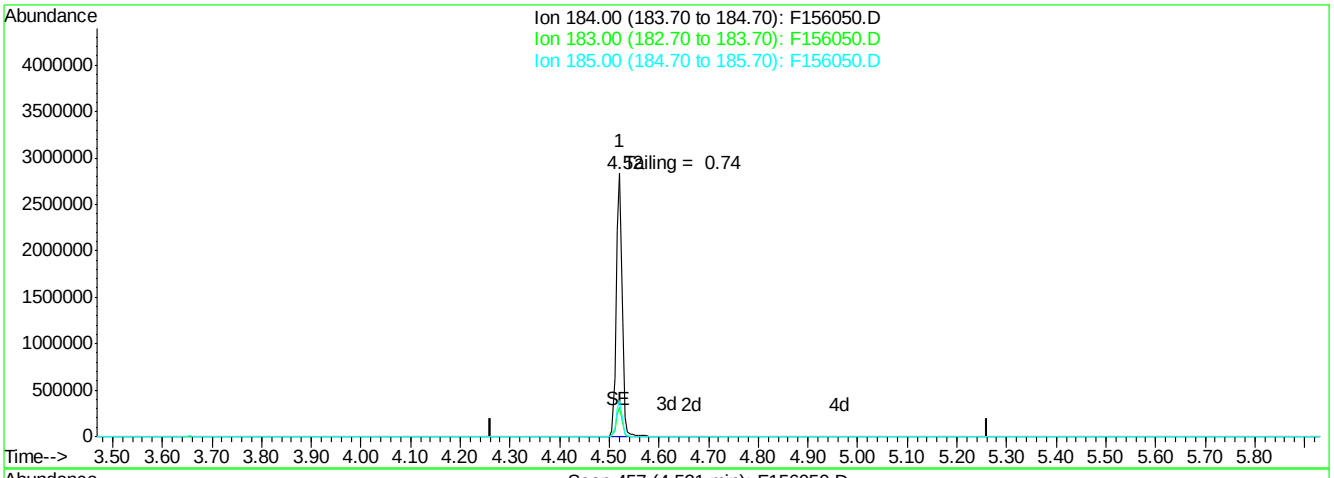
F156050.D DFTPPF.M Mon Apr 04 19:01:22 2016 RT1

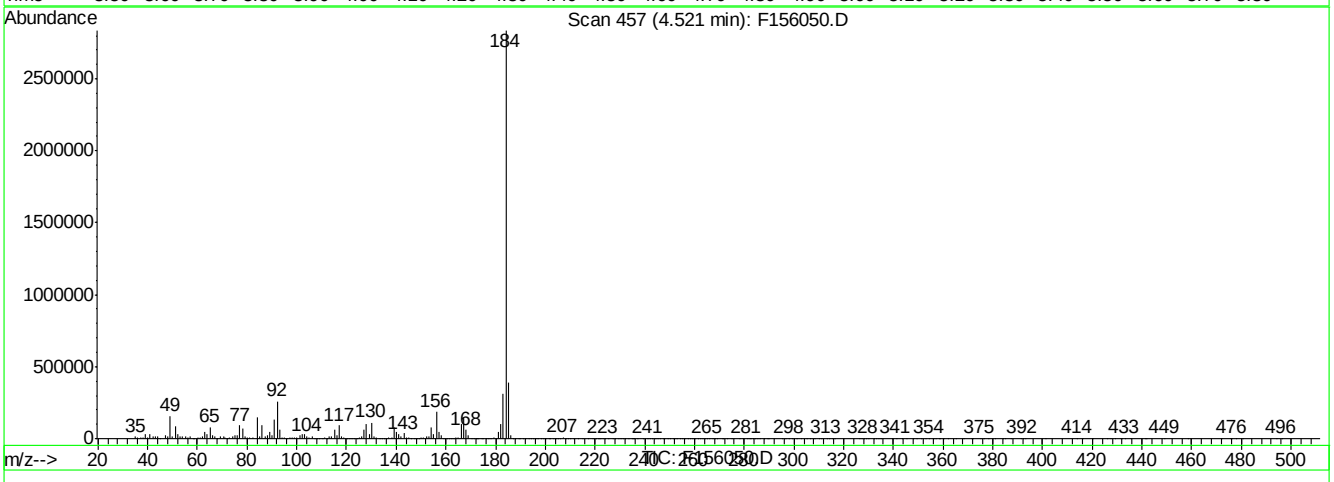
SGS ACCUTEST JC19473

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

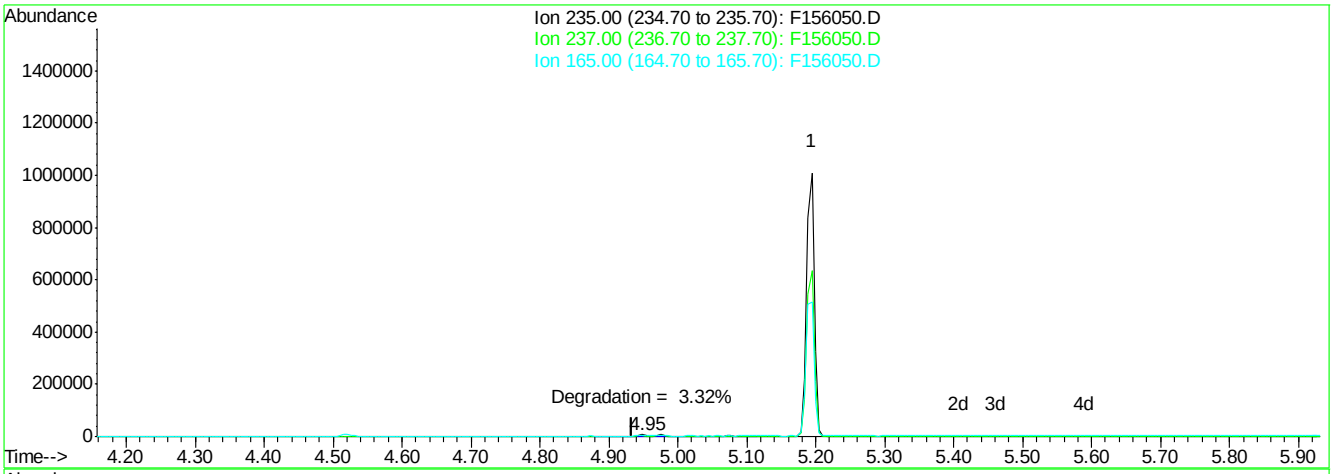
F156050.D DFTPPF.M Mon Apr 04 19:01:32 2016 RT1

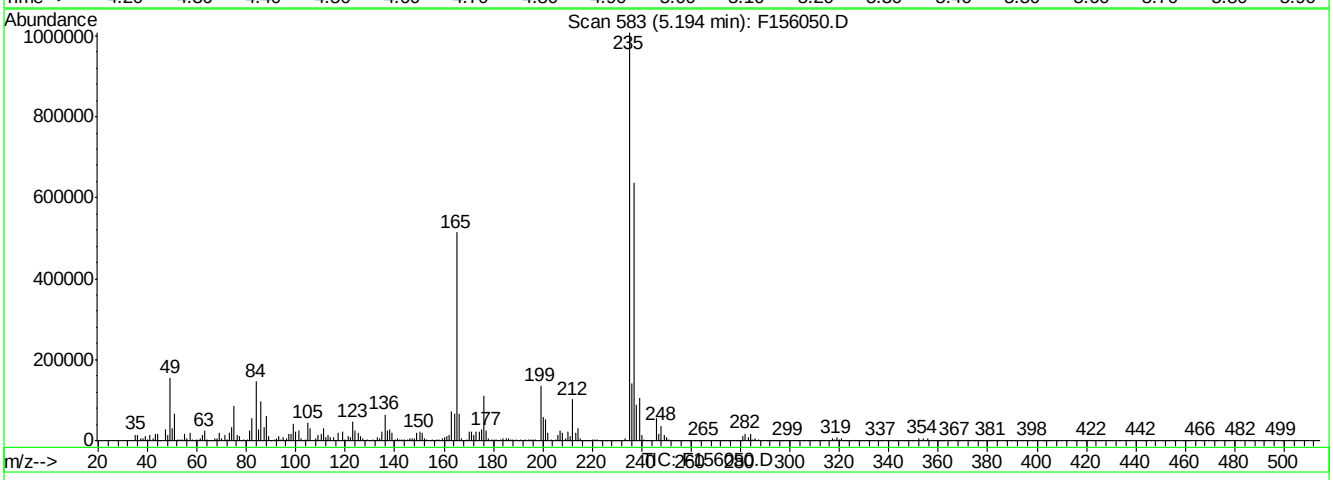
SGS ACCUTEST JC19473

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

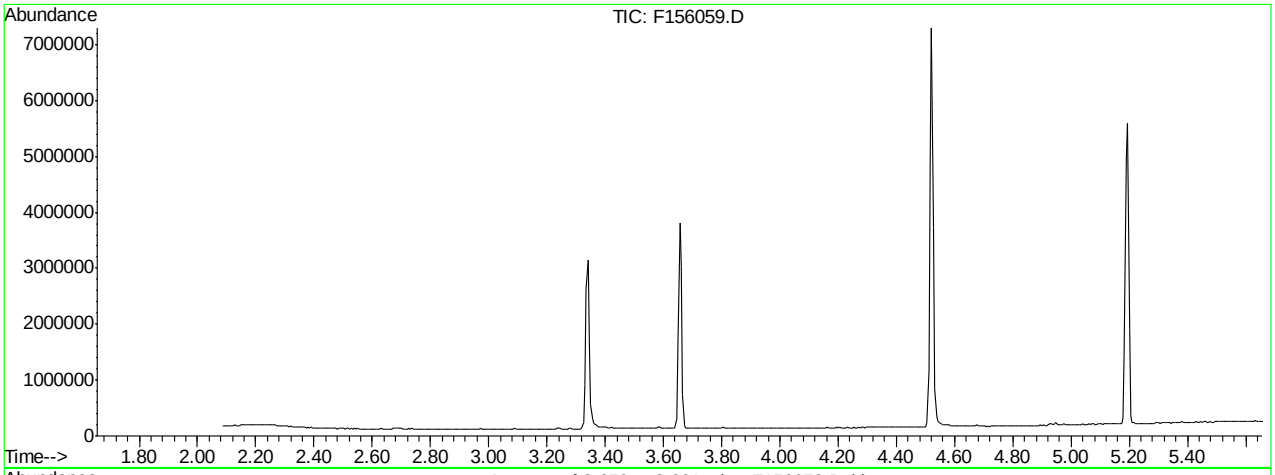
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.25
165.00	59.50	54.99
0.00	0.00	0.00

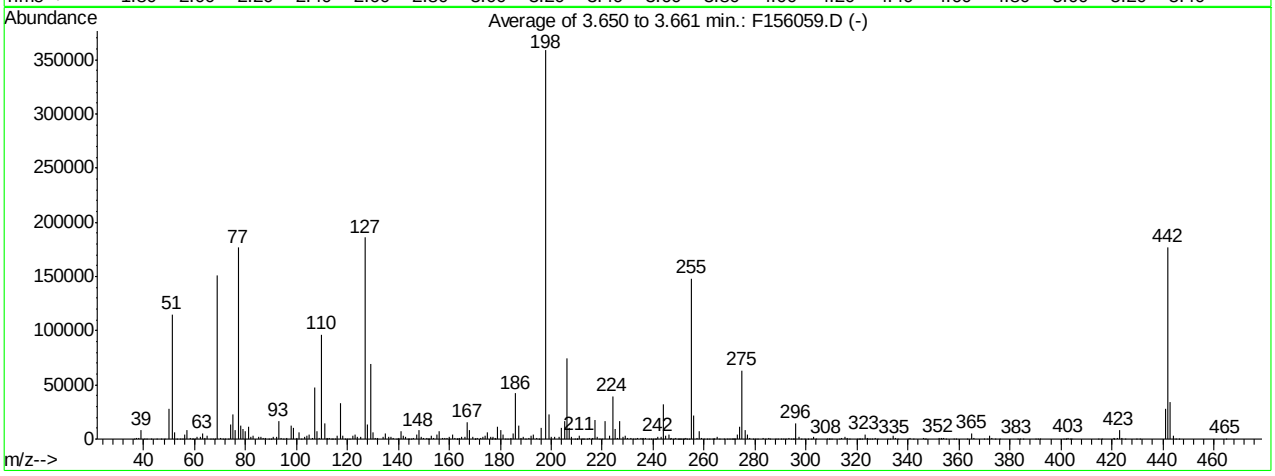
F156050.D DFTPPF.M Mon Apr 04 19:01:45 2016 RT1

SGS ACCUTEST JC19473

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

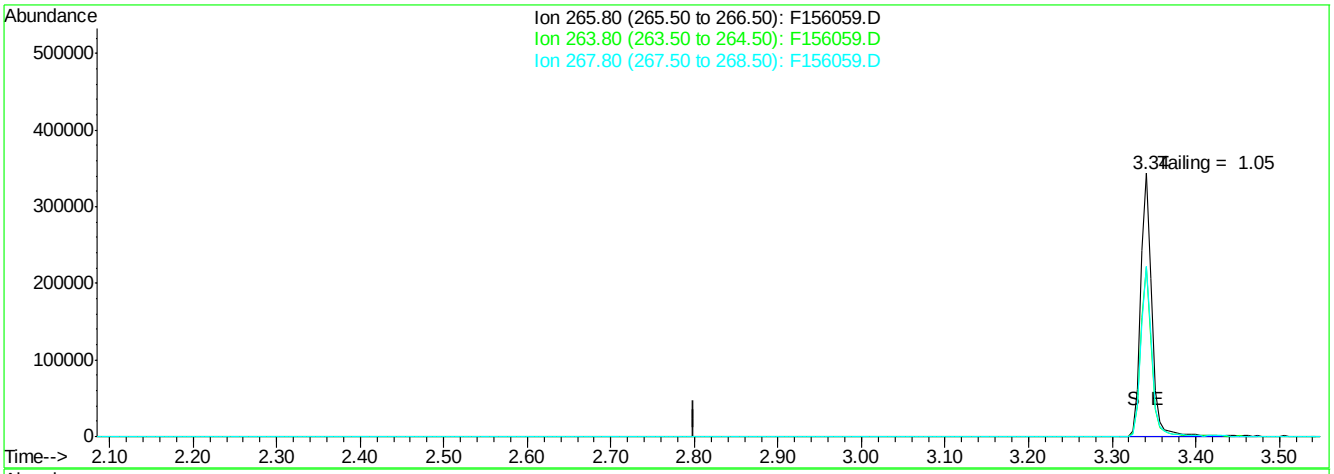
Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

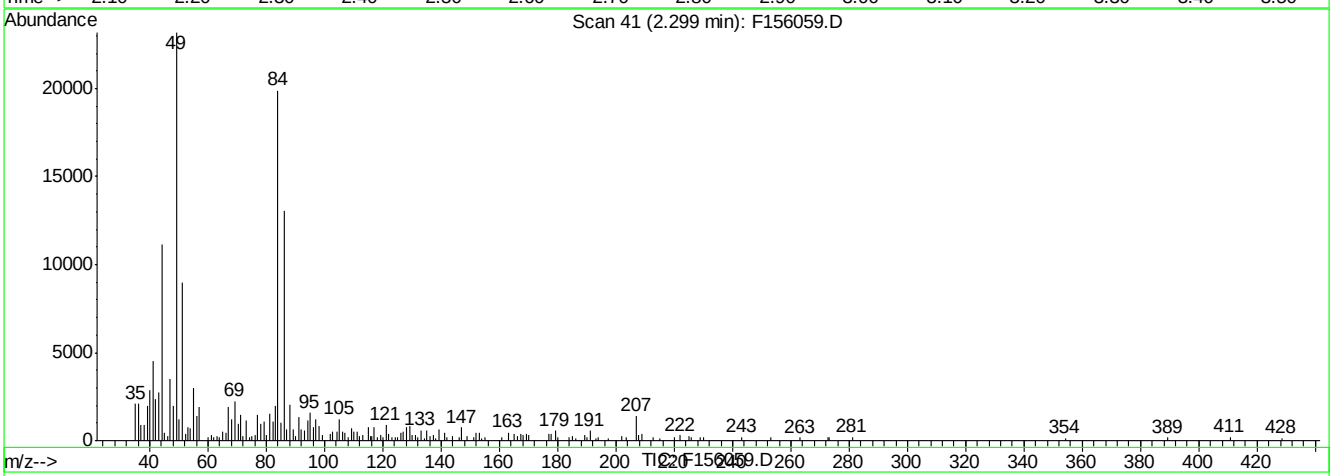
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
446.20	59						
464.70	59						

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

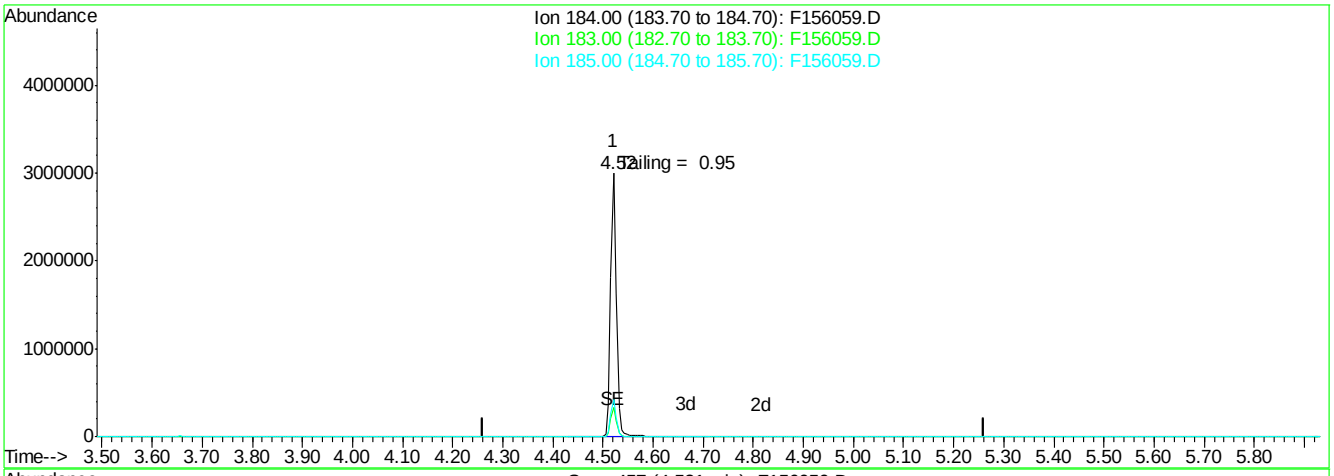
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

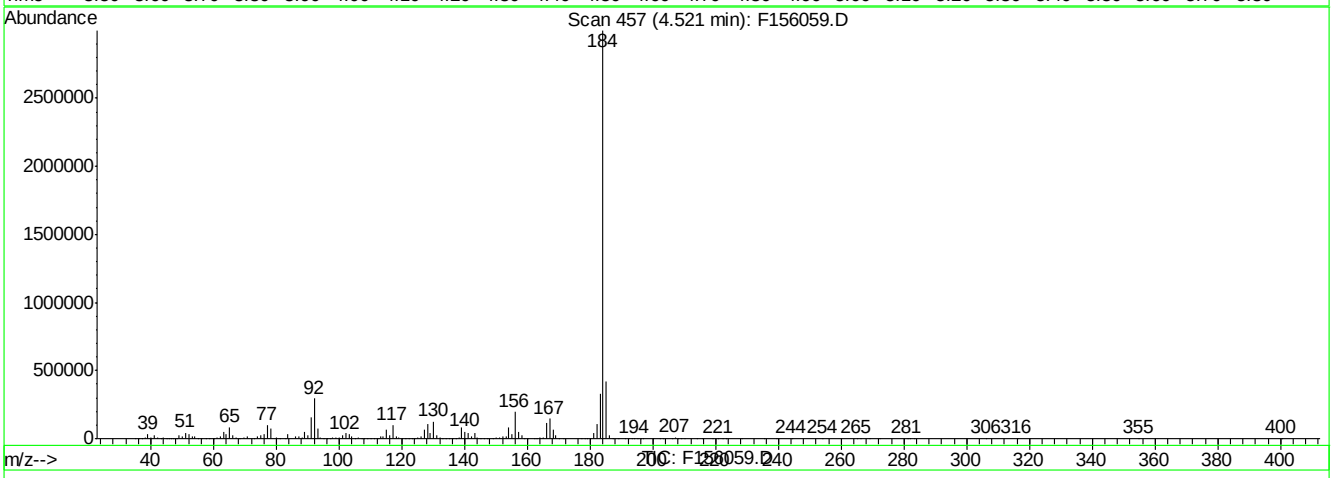
F156059.D DFTPPF.M Mon Apr 04 23:16:21 2016 RT1

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

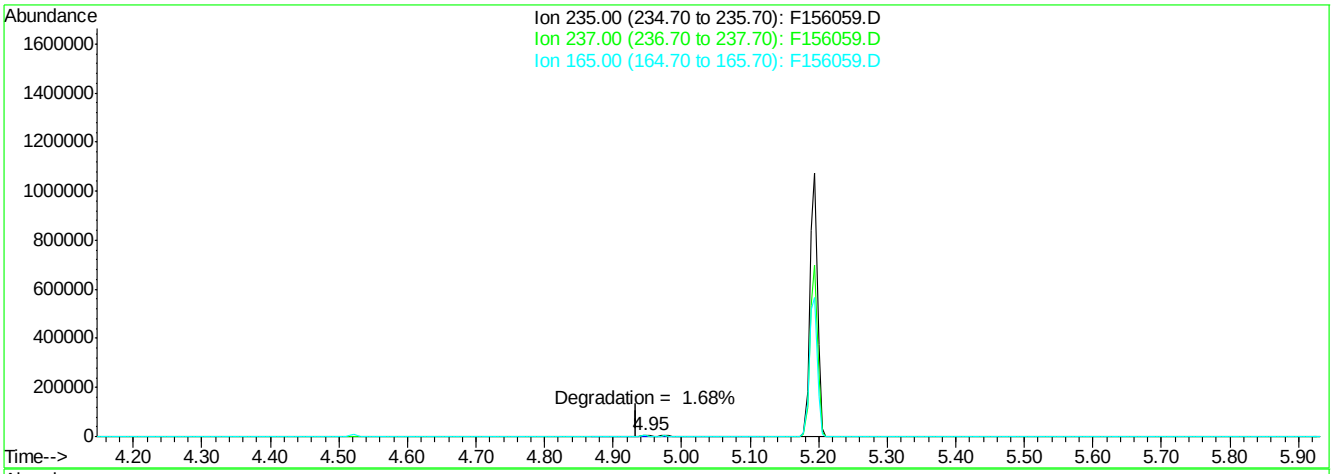
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.83
185.00	16.20	13.82
0.00	0.00	0.00

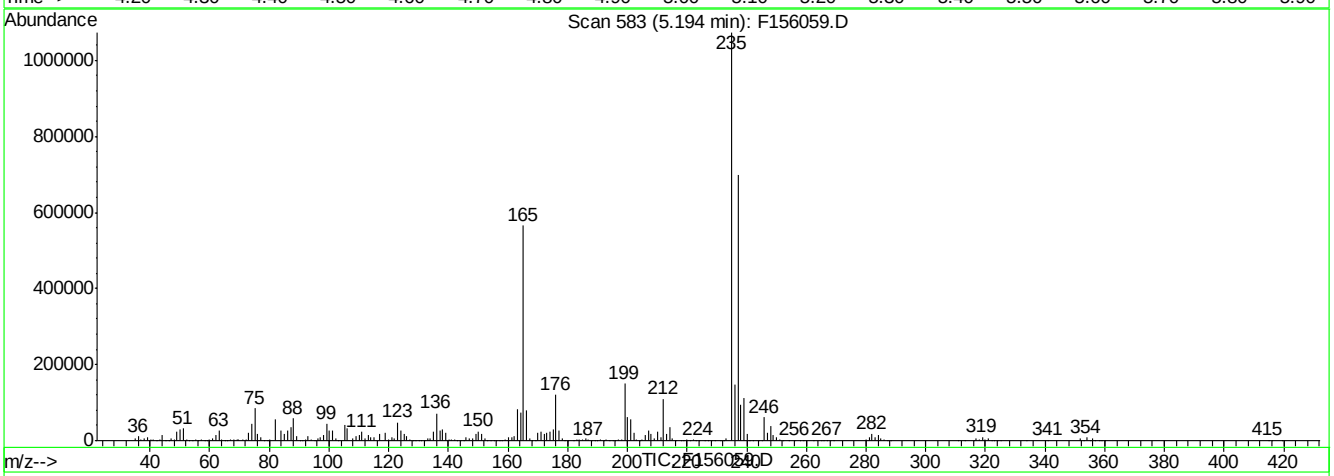
F156059.D DFTPPF.M Mon Apr 04 23:16:45 2016 RT1

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

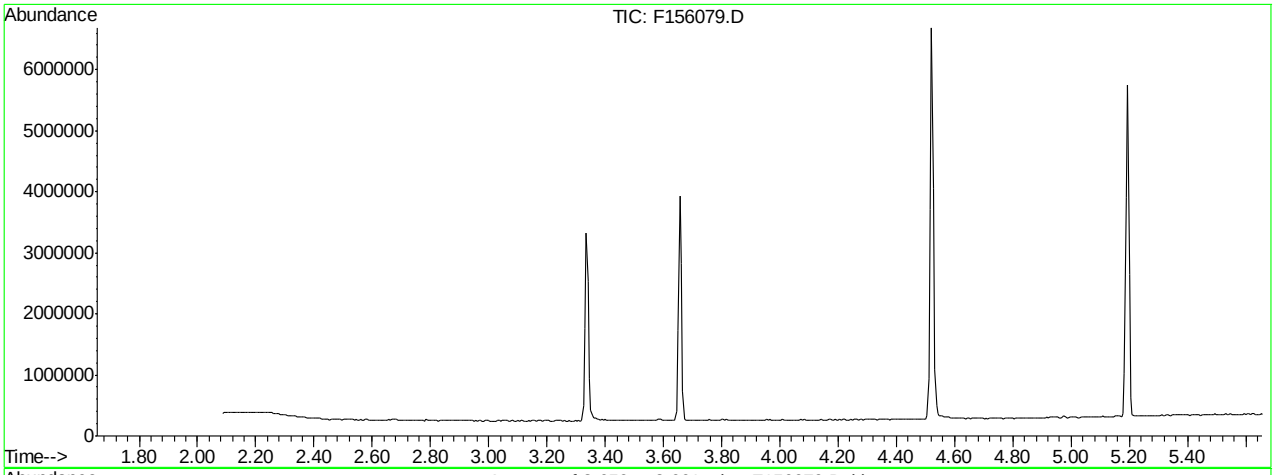
response 807232

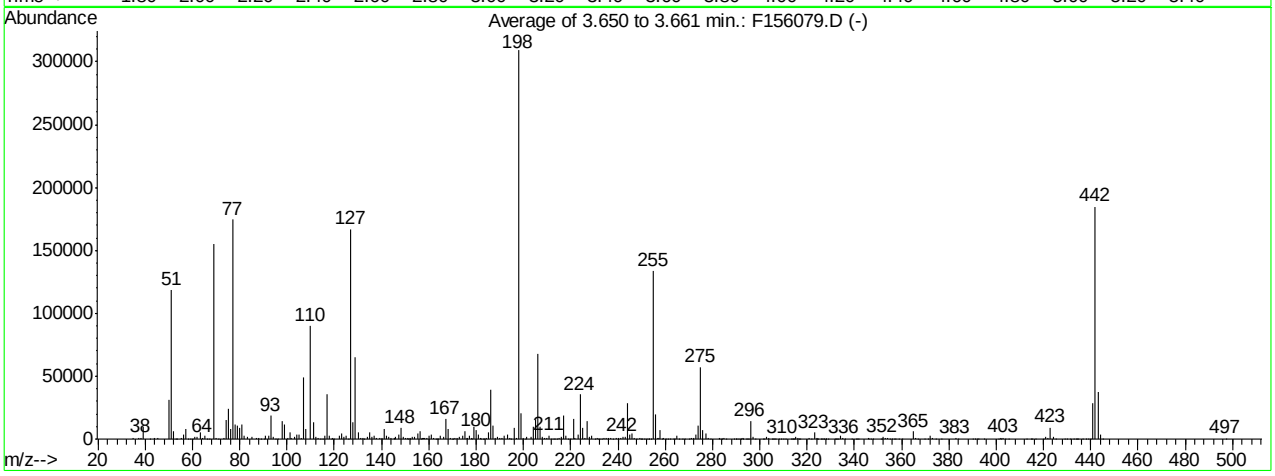
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.82
165.00	59.50	55.83
0.00	0.00	0.00

F156059.D DFTPPF.M Mon Apr 04 23:16:54 2016 RT1

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

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

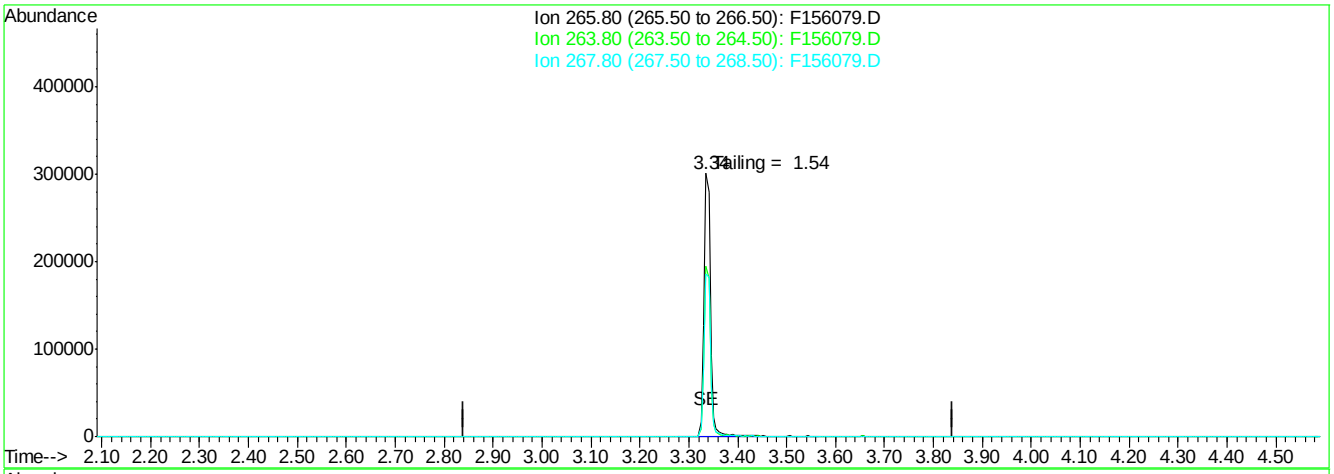
Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

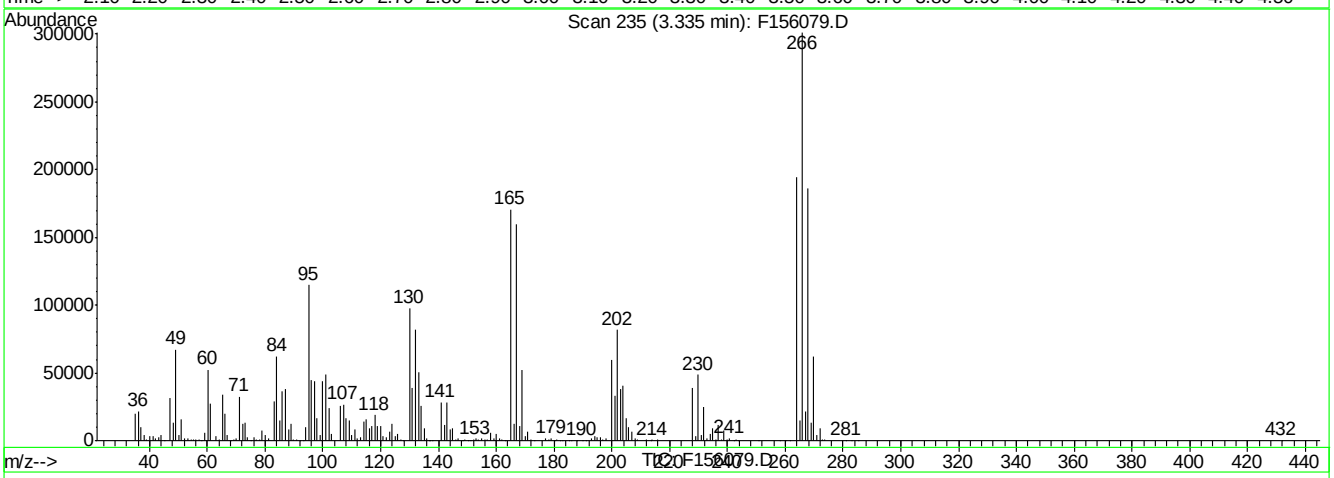
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
416.60	56	433.70	118	444.90	67		
420.00	111	434.00	50	497.10	50		
421.00	1411	434.90	75				
422.00	924	436.80	114				
423.00	9097	437.80	61				
424.10	2024	438.90	143				
425.05	224	439.80	56				
429.10	92	441.00	28422				
429.90	66	442.00	184536				
431.45	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

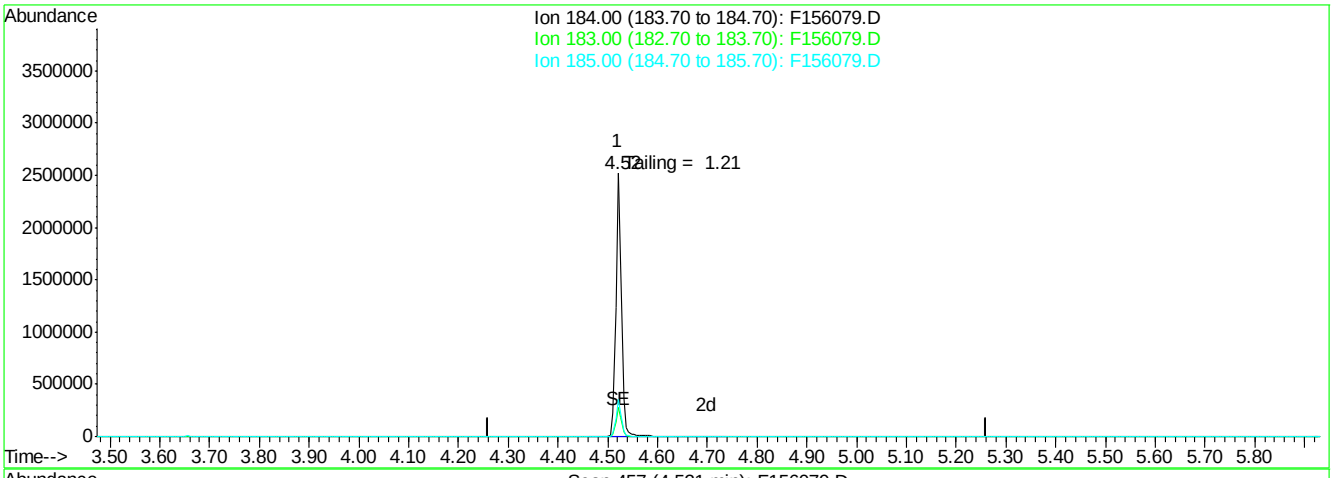
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	64.60
267.80	64.80	61.71
0.00	0.00	0.00

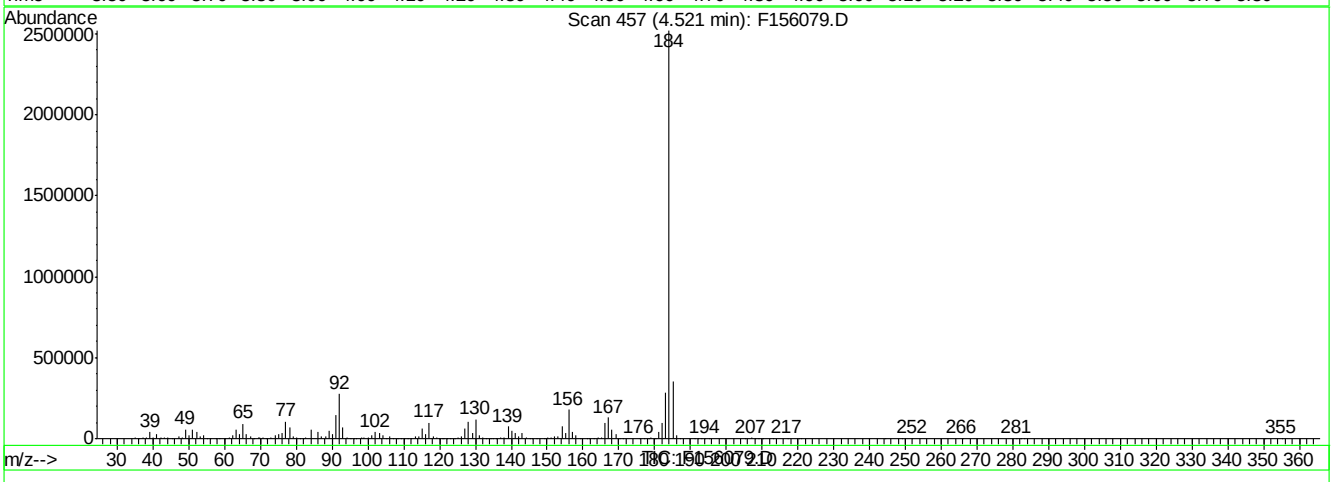
F156079.D DFTPPF.M Fri Apr 08 15:28:06 2016 RT1

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

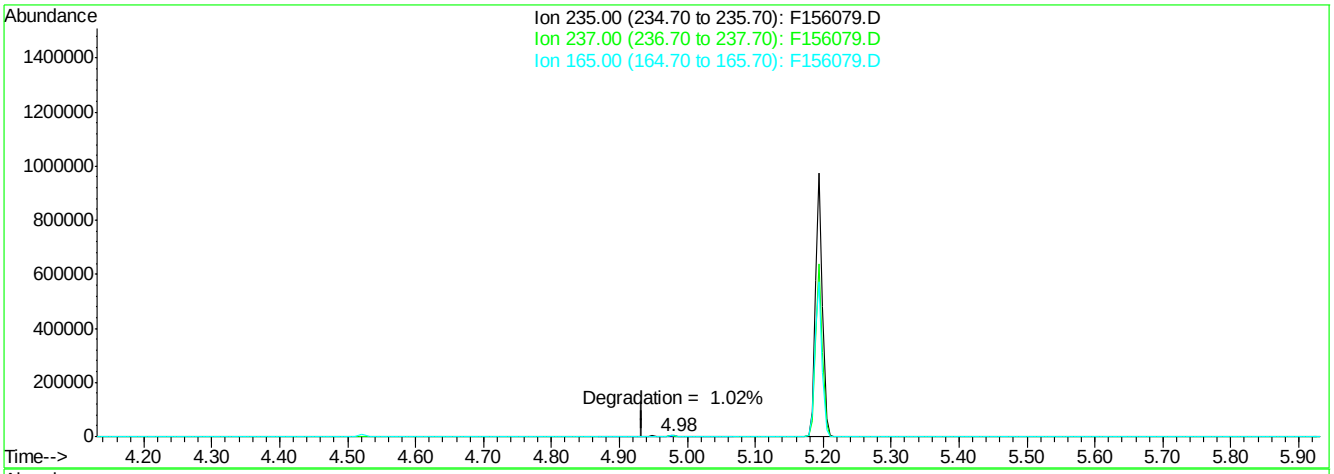
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.24
185.00	16.20	13.76
0.00	0.00	0.00

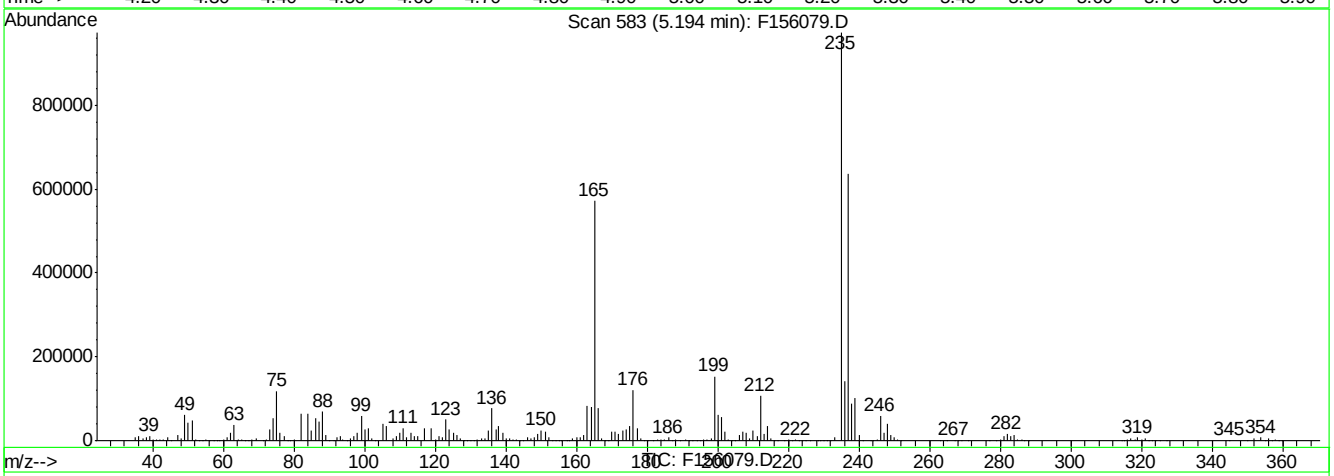
F156079.D DFTPPF.M Fri Apr 08 15:28:19 2016 RT1

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

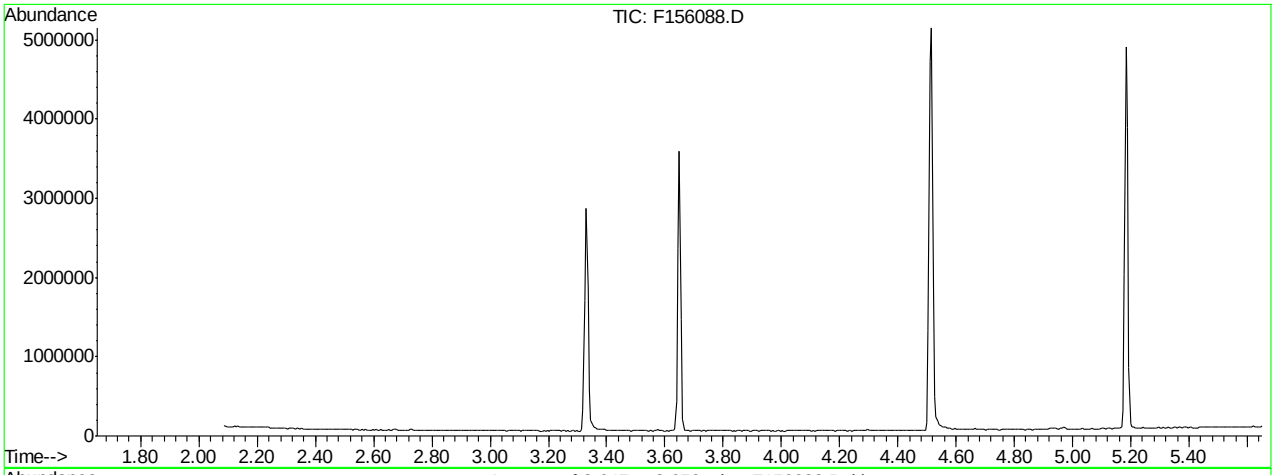
response 705858

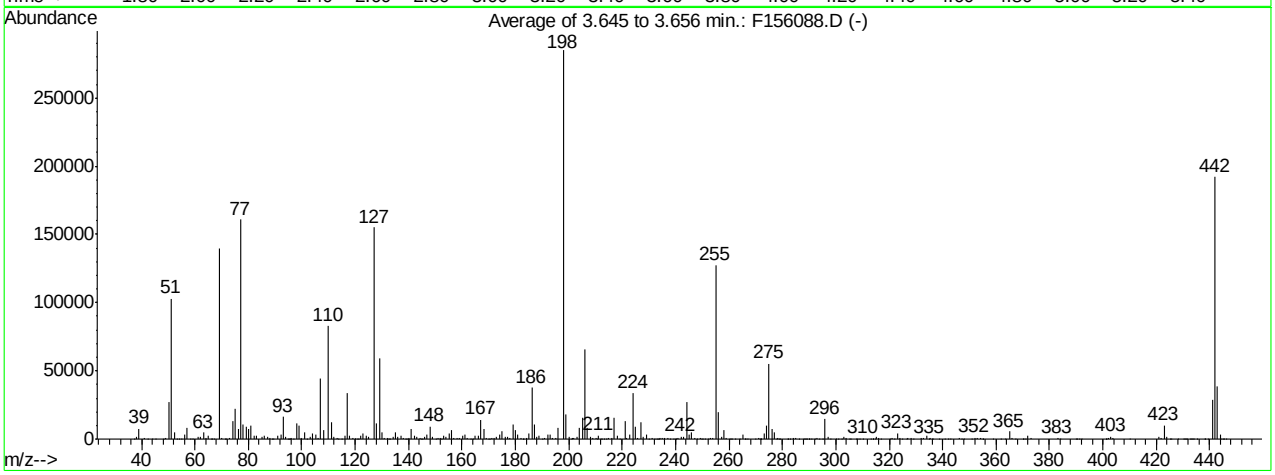
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.72
165.00	59.50	59.82
0.00	0.00	0.00

F156079.D DFTPPF.M Fri Apr 08 15:28:27 2016 RT1

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

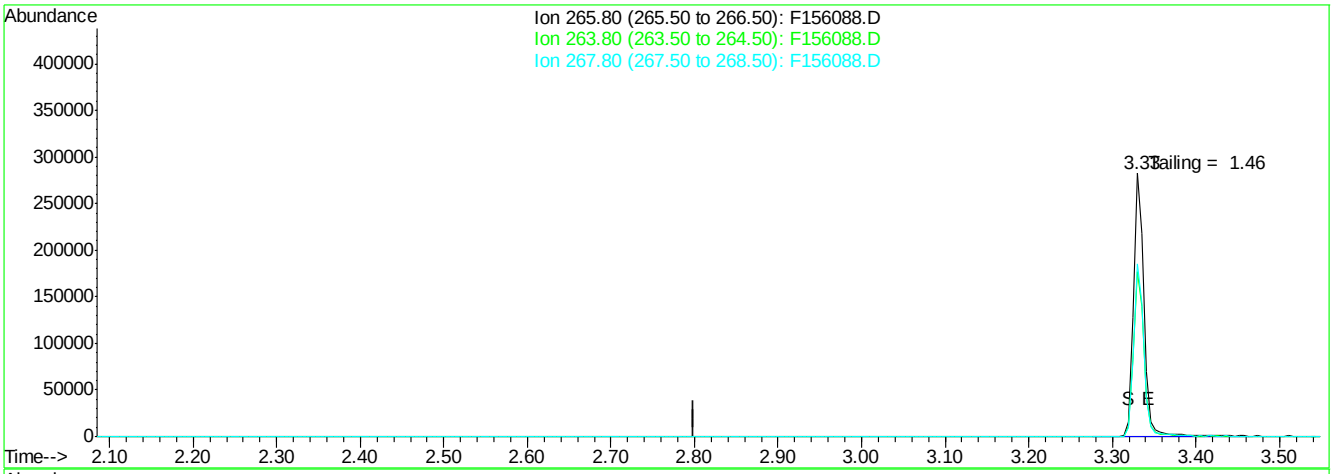
Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

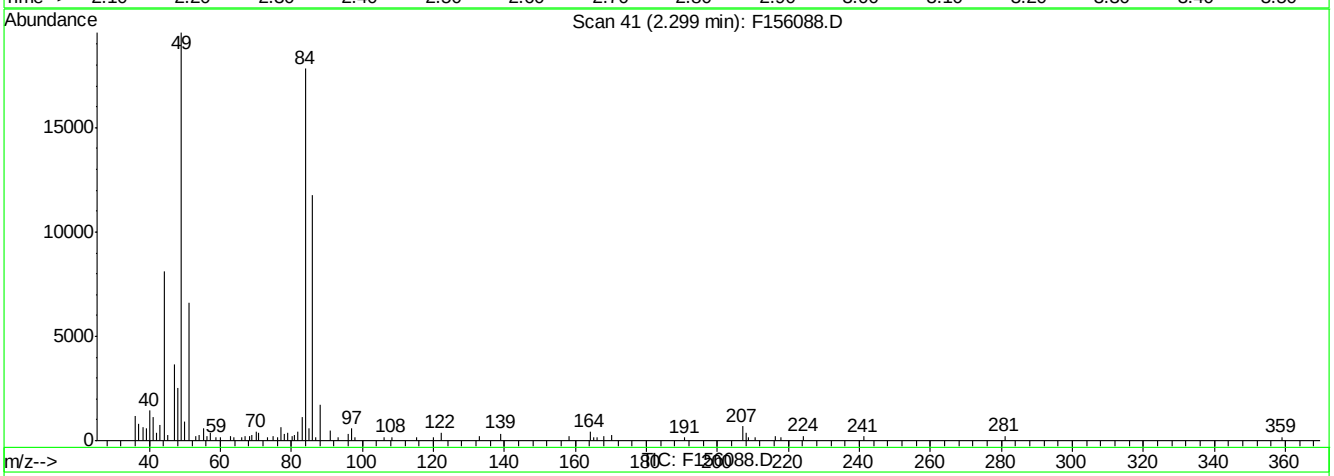
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
430.00	218	439.30	60				
430.50	68	441.05	28740				
431.10	89	442.00	192210				
431.45	133	443.00	38818				
432.65	134	443.90	401				
433.00	76	444.10	3354				
433.40	66	444.90	204				
433.90	59	445.20	184				
435.30	97	446.00	56				
438.10	60						
438.30	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

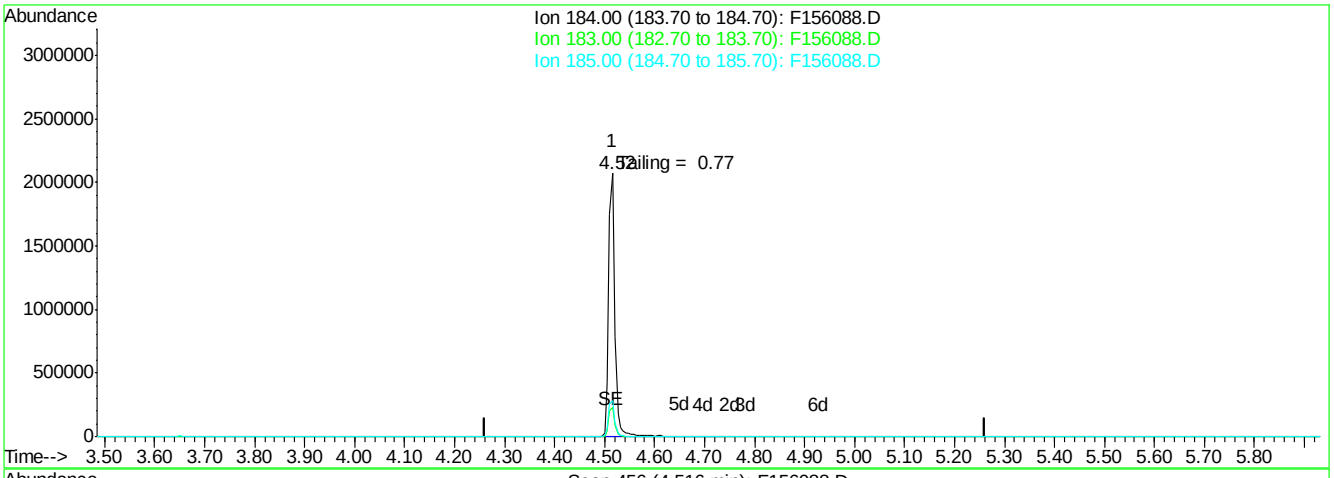
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

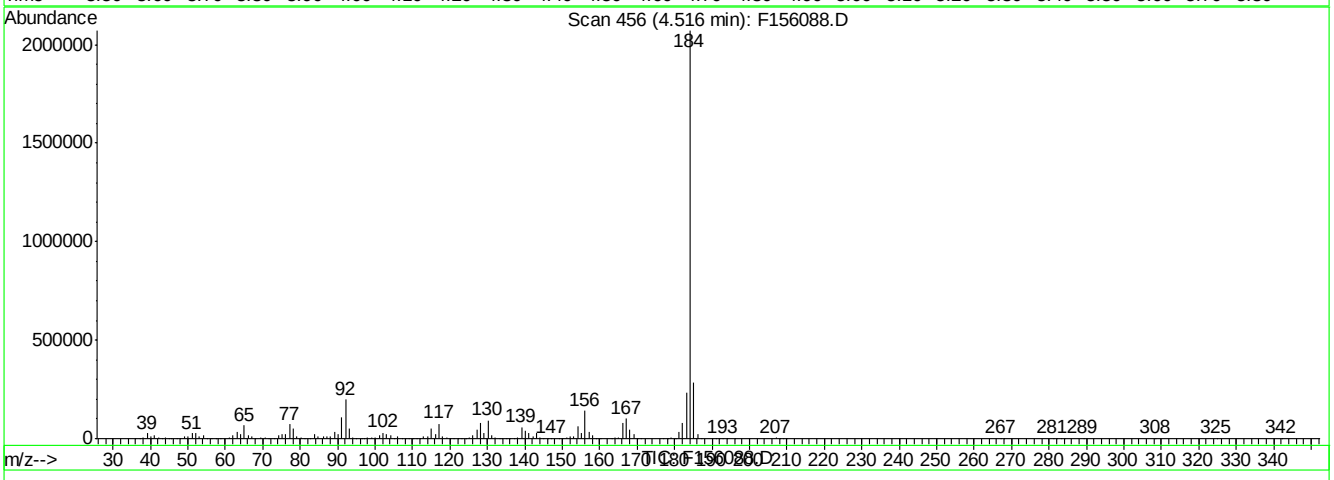
F156088.D DFTPPF.M Tue Apr 05 18:12:48 2016 RT1

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

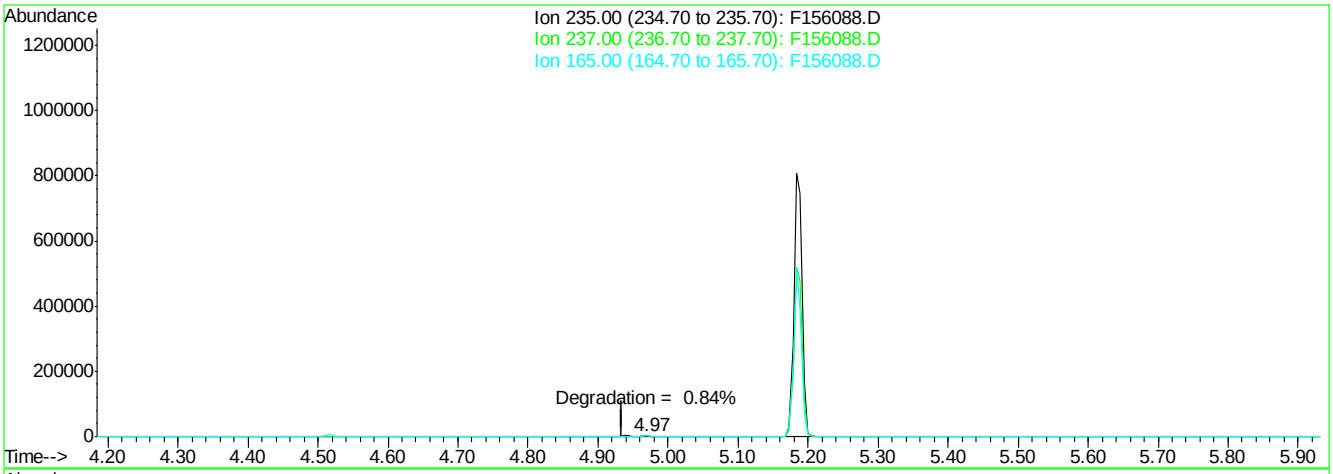
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.25
185.00	16.20	14.07
0.00	0.00	0.00

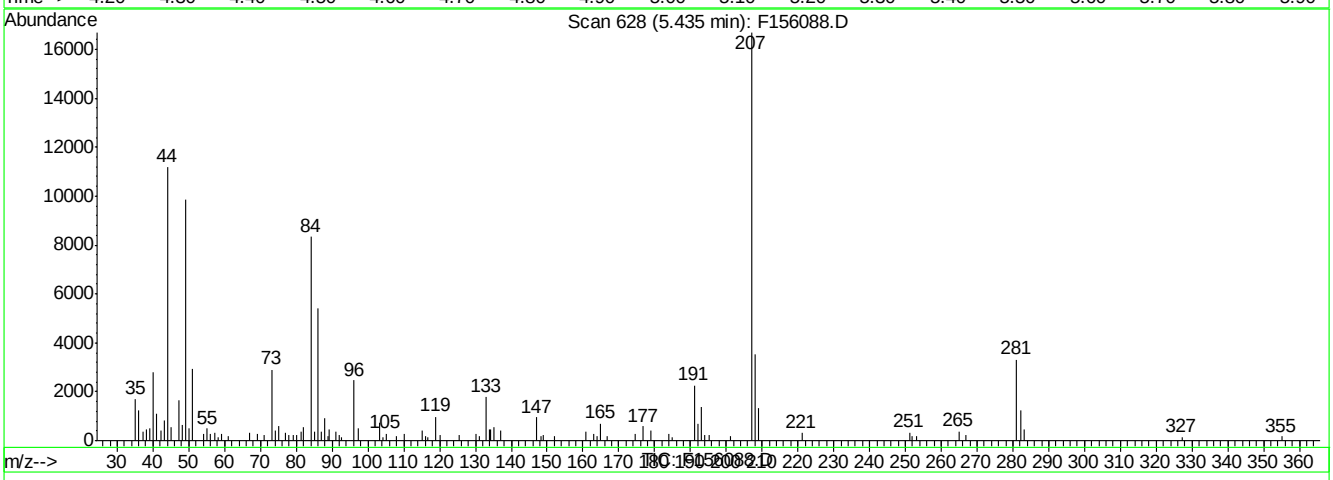
F156088.D DFTPPF.M Tue Apr 05 18:12:55 2016 RT1

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

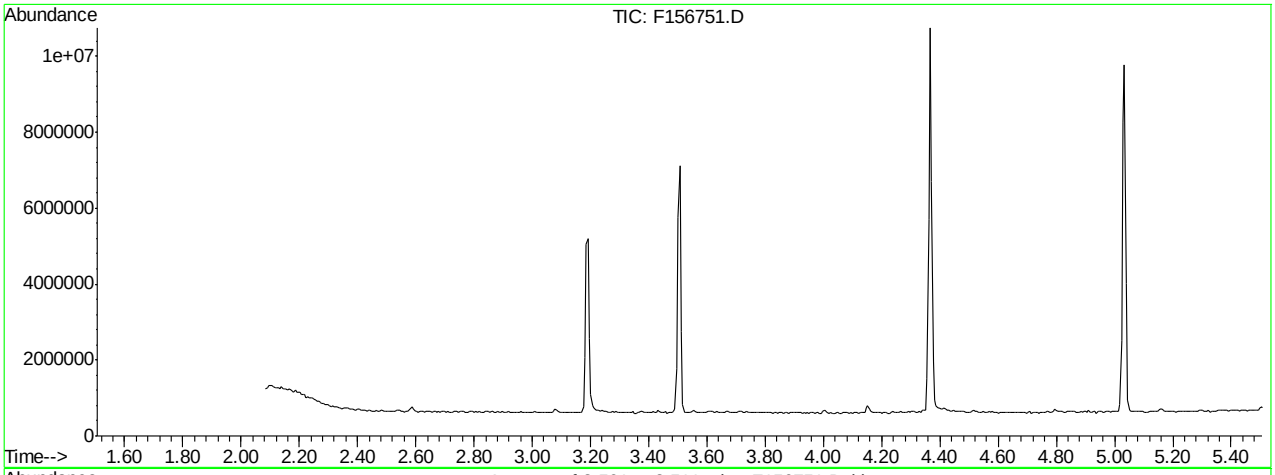
response 0

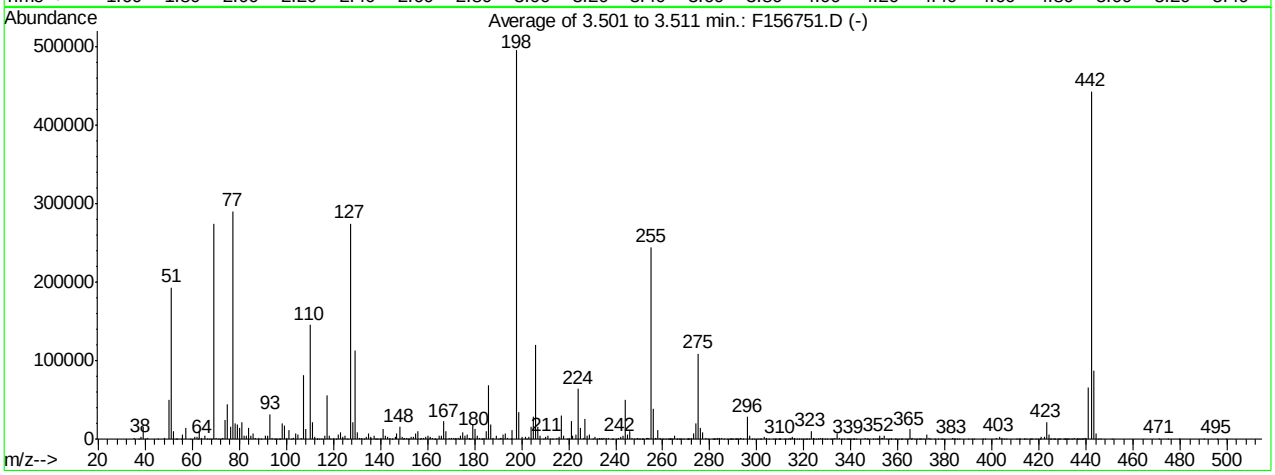
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F156088.D DFTPPF.M Tue Apr 05 18:13:03 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6600\F156751.D Vial: 1
Acq On : 3 May 2016 5:09 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op93535,ef6600 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 266, 267, 268; Background Corrected with Scan 261

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.9	192733	PASS
68	69	0.00	2	0.1	297	PASS
69	198	0.00	100	55.3	273620	PASS
70	69	0.00	2	0.4	1091	PASS
127	198	40	60	55.5	274703	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	494826	PASS
199	198	5	9	6.8	33856	PASS
275	198	10	30	22.0	108821	PASS
365	198	1	100	2.5	12291	PASS
441	443	0.10	100	75.1	65613	PASS
442	198	40	100	89.5	442666	PASS
443	442	17	23	19.7	87336	PASS

F156751.D DFTPPF.M Wed May 04 09:21:10 2016 RT1

SGS ACCUTEST JC19473

Average of 3.501 to 3.511 min.: F156751.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	2010	53.00	221	65.10	4558	76.15	15040
37.05	354	53.25	181	66.15	408	77.10	289767
38.05	2860	55.10	761	67.30	349	78.05	19750
39.10	15532	56.00	6466	68.05	297	79.10	18782
40.00	492	57.10	13683	69.10	273620	80.00	14887
41.10	1318	59.10	295	69.95	1091	81.00	21120
45.10	671	61.10	2373	71.10	503	82.05	4683
48.10	1820	62.10	2634	71.80	105	83.10	4766
50.10	49747	62.30	217	73.05	1380	84.00	14698
51.10	192733	63.10	9811	74.10	24241	84.95	4431
52.05	9489	64.10	960	75.10	44473	86.00	7554

Average of 3.501 to 3.511 min.: F156751.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	1832	97.10	696	107.05	81769	118.00	4711
88.00	1983	98.05	20455	108.10	12891	118.85	463
89.25	427	99.00	17266	110.05	145445	120.05	1212
91.05	4214	100.05	1819	111.00	21879	121.10	472
92.00	4576	101.05	11656	112.00	3001	122.00	5266
93.05	31726	102.00	440	113.00	633	123.00	8936
94.05	1855	102.90	2082	113.20	366	124.10	3276
95.00	273	103.20	1503	114.05	505	125.05	3738
95.30	384	104.10	7532	114.90	400	125.80	614
96.05	762	105.05	5403	116.10	4274	127.10	274703
96.80	715	106.10	1399	117.10	56224	128.05	21361

Average of 3.501 to 3.511 min.: F156751.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	113310	138.10	391	149.05	3563	157.15	1607
130.05	8553	138.95	528	149.80	77	158.05	2093
131.00	1469	140.00	1450	150.10	906	159.05	2272
131.95	1680	141.05	13558	151.15	1745	160.05	4090
133.10	401	142.10	4351	151.60	104	160.90	1763
134.10	2982	142.90	2735	151.90	206	161.10	3512
135.05	7193	144.00	1054	153.00	3470	162.00	1640
135.70	257	145.15	669	154.10	2261	162.90	186
136.00	3021	146.15	2395	155.10	6494	163.05	622
137.10	3963	147.00	6673	156.05	9857	165.05	4797
137.80	265	148.05	15707	156.90	81	166.00	4677

Average of 3.501 to 3.511 min.: F156751.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
167.00	22665	176.10	3621	184.05	1771	194.15	1191
168.00	10063	177.05	5305	185.10	9392	195.20	111
169.05	1942	177.60	361	186.10	69000	196.00	12170
170.10	924	178.00	1702	187.05	19109	198.00	494826
170.95	969	178.20	221	188.00	1396	199.00	33856
171.80	135	179.00	18402	189.05	4758	200.05	2503
172.05	1853	180.10	12534	190.00	707	201.40	2751
173.10	2155	181.05	5023	190.95	1071	202.00	346
173.30	246	182.15	1437	191.30	1110	203.00	3291
174.00	4480	183.00	83	192.10	5058	204.05	15959
175.05	9100	183.20	518	193.05	6745	205.10	28086

Average of 3.501 to 3.511 min.: F156751.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
206.10	119637	218.05	4196	228.95	5561	238.10	398
207.10	15965	219.05	371	230.00	606	238.95	738
208.05	4670	220.20	1001	231.05	2226	240.20	715
209.10	138	221.10	22895	232.10	448	240.95	1396

210.10	2515	221.75	3961	232.90	362	241.95	3160
211.05	4053	223.05	6284	233.15	848	243.15	3969
212.05	301	224.10	63608	233.85	55	244.10	50629
213.05	726	225.10	14918	234.10	965	245.10	5773
215.00	1286	226.20	1202	235.10	1989	246.00	10290
216.00	2717	227.05	26152	236.05	1247	247.00	1659
217.00	29894	228.05	4095	237.05	1968	248.00	642

Average of 3.501 to 3.511 min.: F156751.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.90	419	256.10	38554	263.00	153	270.10	238
249.15	1222	256.90	532	263.20	73	270.50	139
249.90	64	257.15	2113	263.60	165	270.90	654
250.20	376	258.10	11269	264.00	126	271.20	312
251.05	324	258.90	692	265.00	4910	272.05	908
251.40	600	259.05	1460	265.90	56	273.10	7621
251.80	66	259.90	431	266.15	749	274.10	20460
252.90	1223	260.40	73	266.95	317	275.10	108821
253.60	897	261.05	247	267.30	193	276.10	14754
253.90	923	262.10	119	267.85	731	277.05	8964
255.10	244333	262.60	94	269.00	272	278.15	1113

Average of 3.501 to 3.511 min.: F156751.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
279.25	198	288.25	162	293.20	1737	304.90	266
281.15	343	288.70	208	294.25	706	306.90	79
281.60	171	288.90	55	296.05	28131	307.85	384
281.85	328	289.20	59	296.95	4997	308.10	411
282.20	154	290.00	246	298.05	461	309.10	294
282.90	854	290.90	382	298.95	168	309.40	187
283.10	177	291.10	340	300.50	125	309.80	248
284.05	967	291.40	92	301.20	374	310.05	320
284.95	1915	291.60	88	301.80	377	311.80	77
286.10	687	292.05	587	303.05	2807	312.35	194
287.20	65	292.95	1461	304.15	1224	313.00	501

Average of 3.501 to 3.511 min.: F156751.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
313.95	1155	322.10	555	331.80	260	340.90	716
314.20	261	323.05	10036	332.15	701	341.25	586
314.90	2325	323.90	1431	333.15	898	341.50	181
315.20	1059	324.20	730	334.10	6881	342.10	499
316.05	1598	325.00	85	335.00	1270	346.00	1728
316.85	255	326.05	324	335.90	214	346.95	266
318.10	52	327.00	1918	337.10	131	347.20	86
318.80	96	328.10	1026	338.30	120	349.60	70
320.00	55	328.90	272	338.70	87	350.10	159
320.90	146	330.00	56	339.15	233	351.10	203
321.20	648	331.20	101	339.80	87	351.40	112

Average of 3.501 to 3.511 min.: F156751.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.00	3742	361.20	323	370.05	253	384.15	335
353.00	1041	361.60	131	371.00	746	385.10	162
353.15	1398	363.00	151	372.10	5192	386.10	76
354.05	3959	364.00	169	373.10	1405	390.00	758
355.20	93	365.00	12291	373.80	106	391.15	424
356.10	208	365.80	375	375.60	64	392.20	118
356.90	80	365.95	1119	376.95	148	395.90	119
357.20	80	366.90	281	378.20	98	396.80	120
358.80	131	367.80	54	379.10	119	402.00	2050
359.10	83	369.10	139	383.05	1225	403.10	3225
360.30	81	369.50	118	383.80	116	404.05	1364

Average of 3.501 to 3.511 min.: F156751.D

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
404.90	326	418.40	112	426.80	84	433.55	322
405.90	66	419.20	54	427.90	339	434.40	124
410.30	110	420.20	92	428.35	265	435.05	1027
411.30	75	421.05	2801	429.15	469	435.90	444
411.60	50	422.15	2689	430.40	202	436.30	216
413.60	51	423.05	21841	430.70	130	436.60	231
413.90	62	424.10	6358	430.90	177	436.90	463
414.85	211	424.75	324	431.30	186	437.50	286
416.00	65	425.30	176	431.60	161	438.00	280
416.80	78	426.00	165	432.50	78	438.30	224
417.00	79	426.50	70	432.95	289	438.70	612

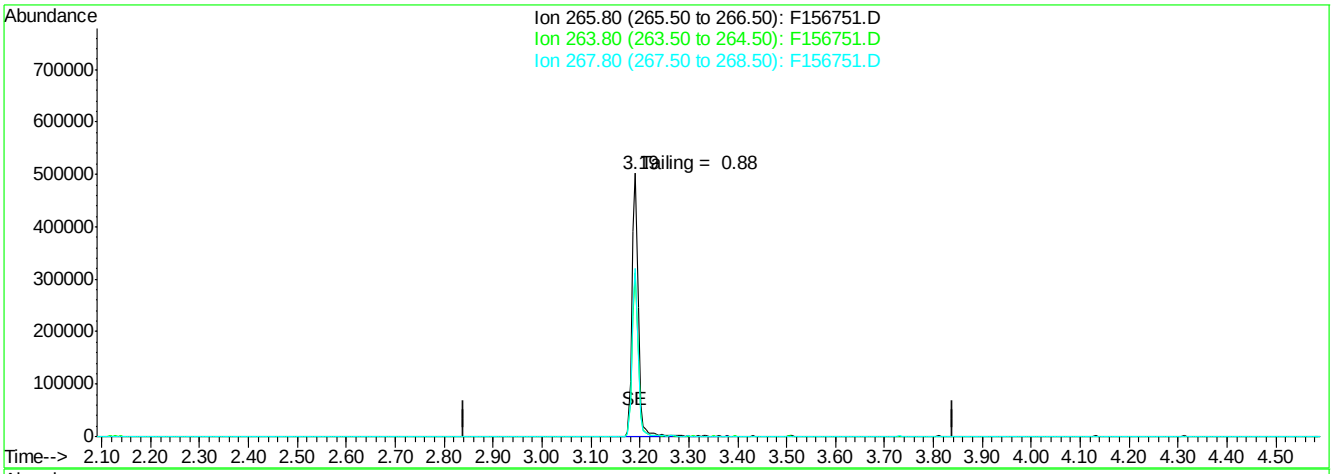
Average of 3.501 to 3.511 min.: F156751.D
dftpp
Modified:subtracted

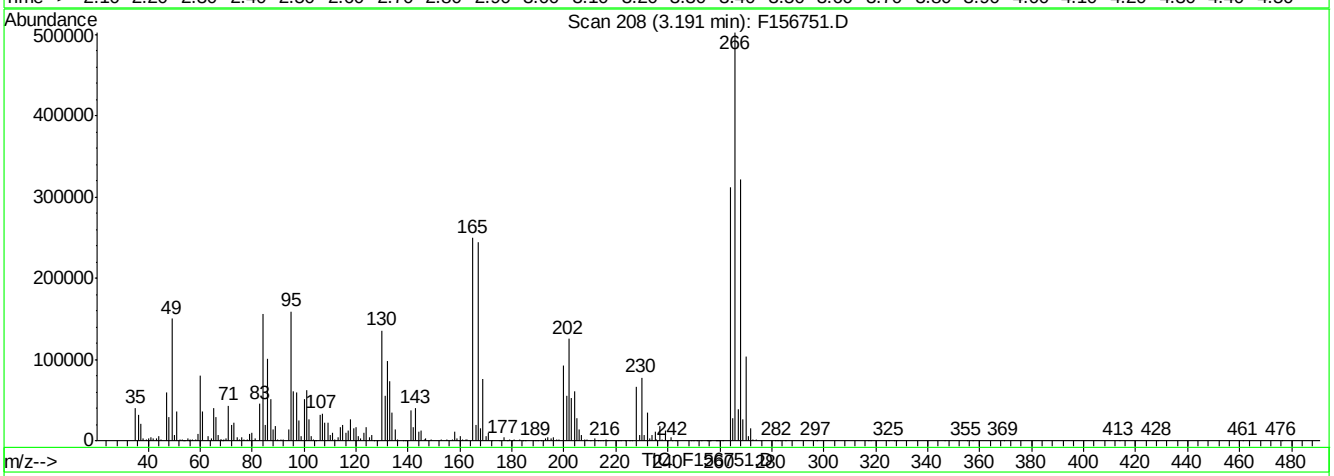
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
439.25	974	479.50	69				
439.75	790	490.00	75				
441.10	65613	495.60	140				
442.10	442666	499.30	99				
443.10	87336						
444.10	7423						
445.15	506						
445.90	70						
450.80	71						
471.10	132						
474.90	68						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156751.D Vial: 1
Acq On : 3 May 2016 5:09 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op93535,ef6600 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 3 17:15 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)

3.19min 239.74ppb

response 445668

Ion	Exp%	Act%
265.80	100	100
263.80	63.00	62.22
267.80	64.80	63.94
0.00	0.00	0.00

F156751.D DFTPPF.M Wed May 04 09:21:19 2016 RT1

7.5.13.1

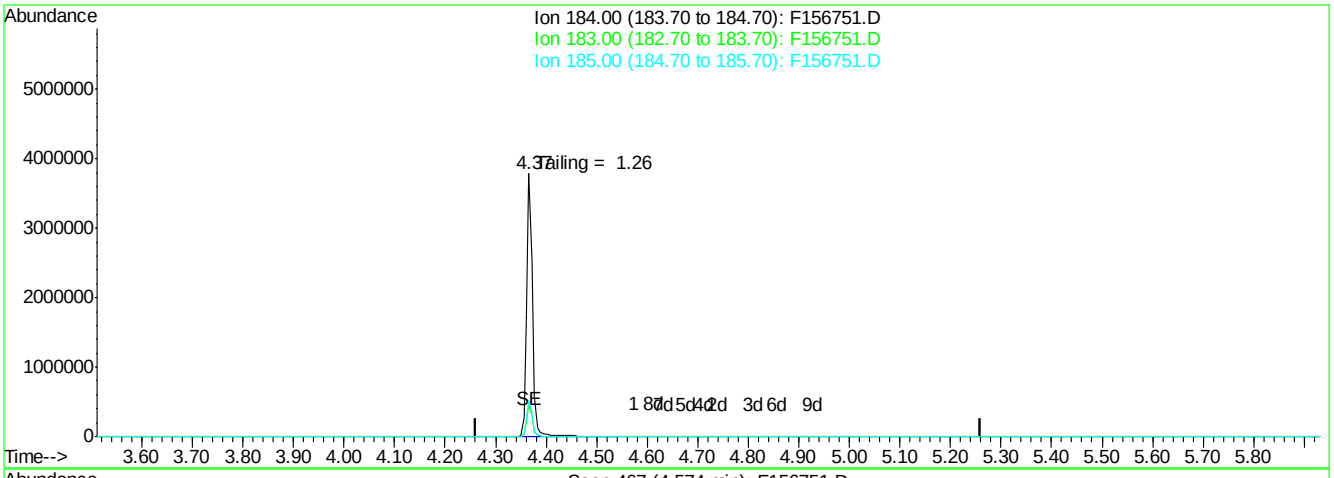
7

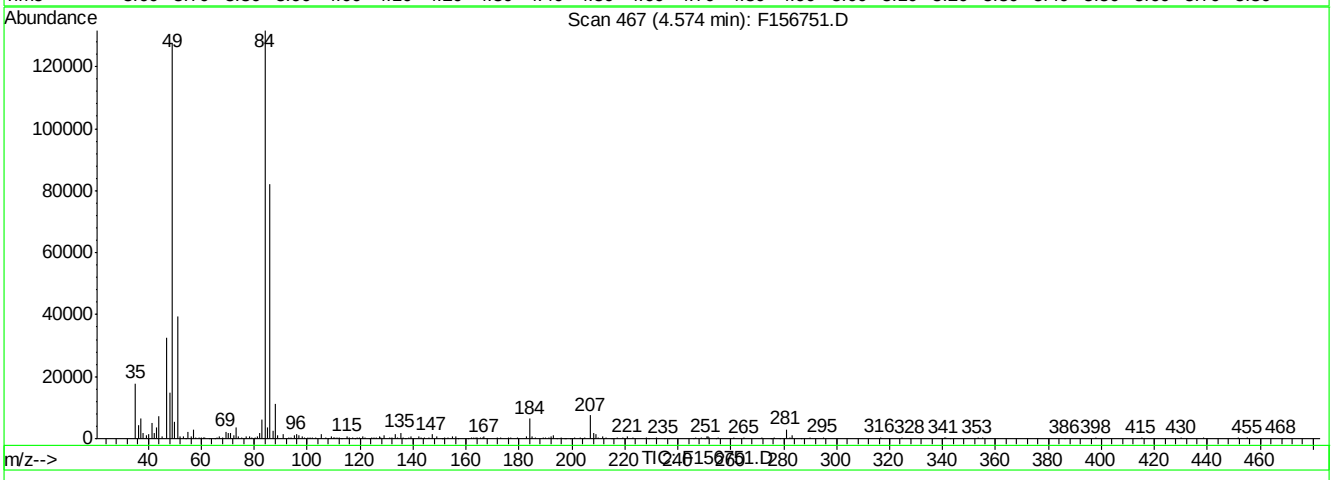
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156751.D Vial: 1
Acq On : 3 May 2016 5:09 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op93535,ef6600 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 3 17:15 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)

4.57min 0.28ppb

response 5186

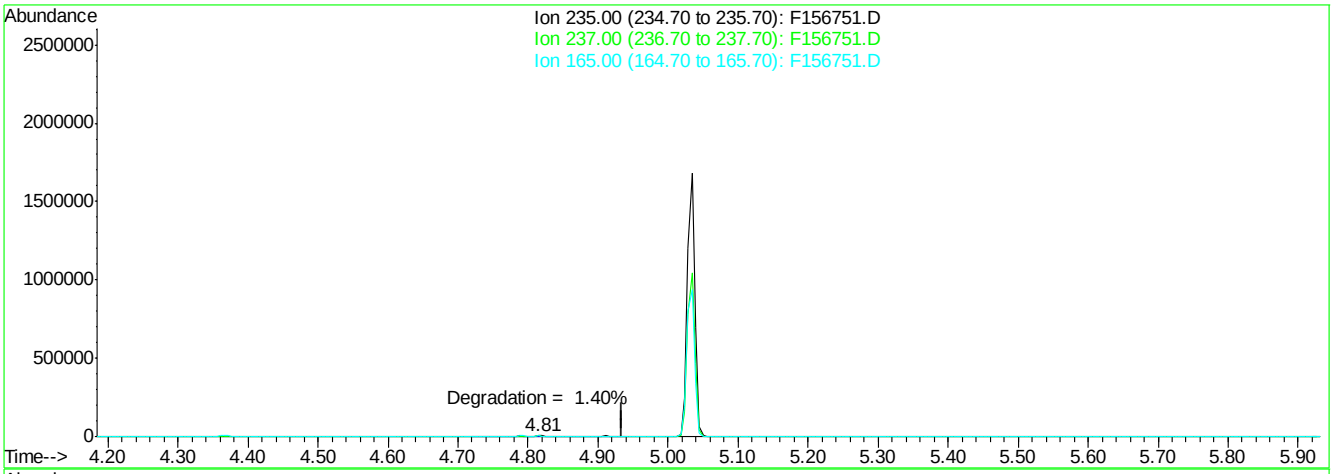
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	25.41
185.00	16.20	24.33
0.00	0.00	0.00

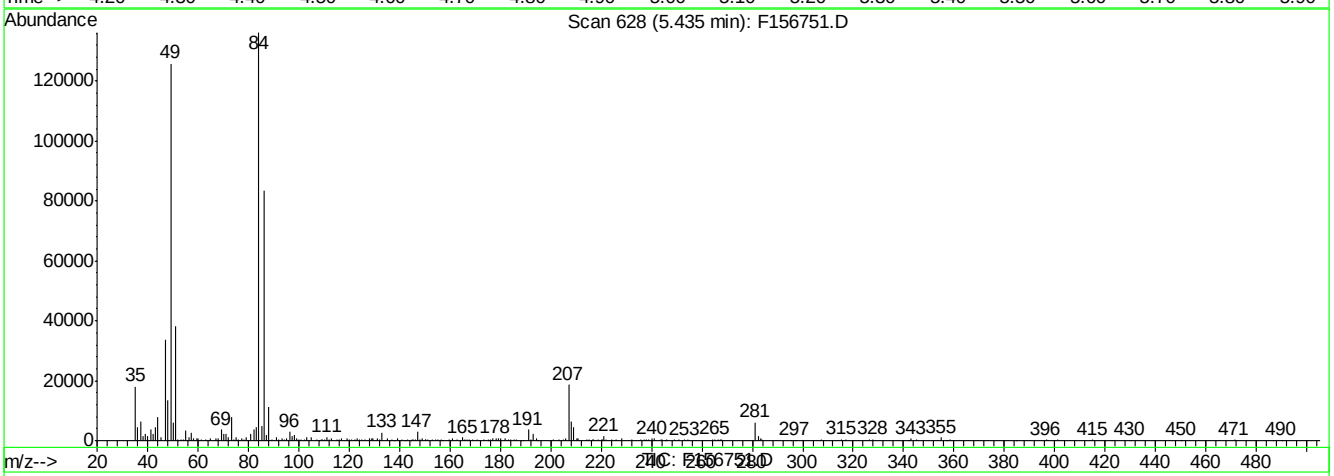
F156751.D DFTPPF.M Wed May 04 09:21:24 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156751.D Vial: 1
Acq On : 3 May 2016 5:09 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op93535,ef6600 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 3 17:15 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

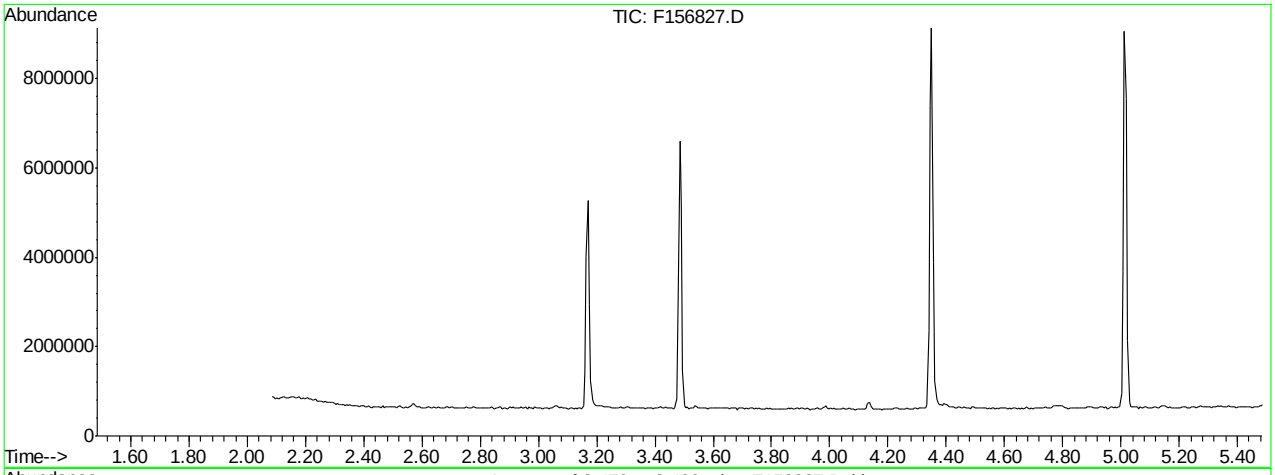
response 0

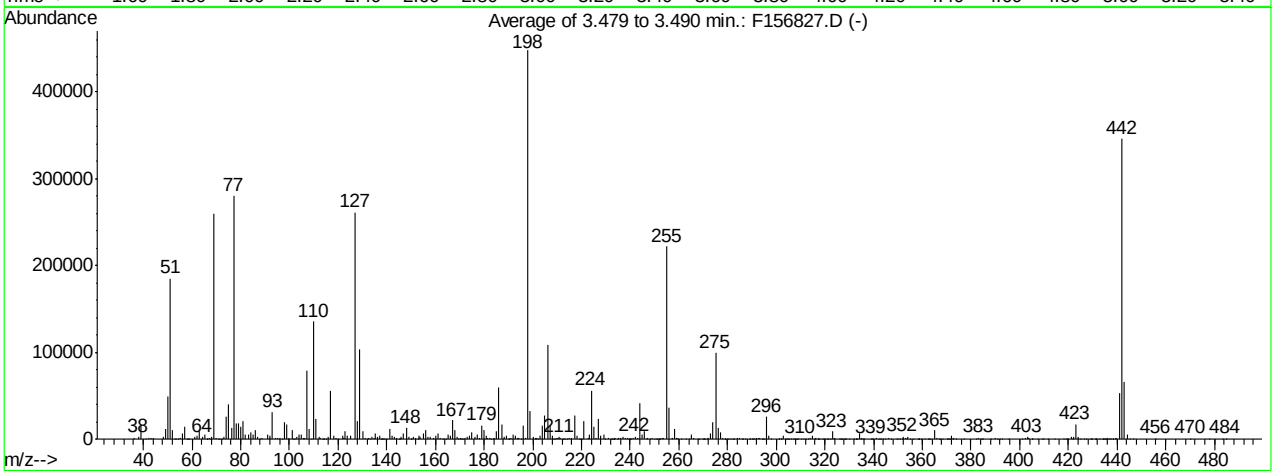
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F156751.D DFTPPF.M Wed May 04 09:21:30 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

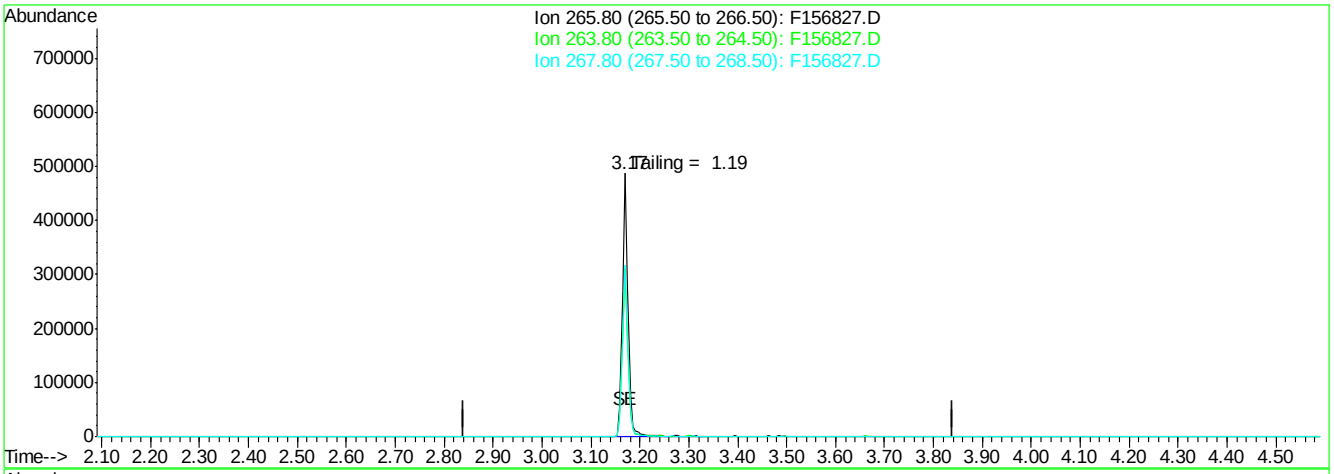
Average of 3.479 to 3.490 min.: F156827.D
dftpp
Modified:subtracted

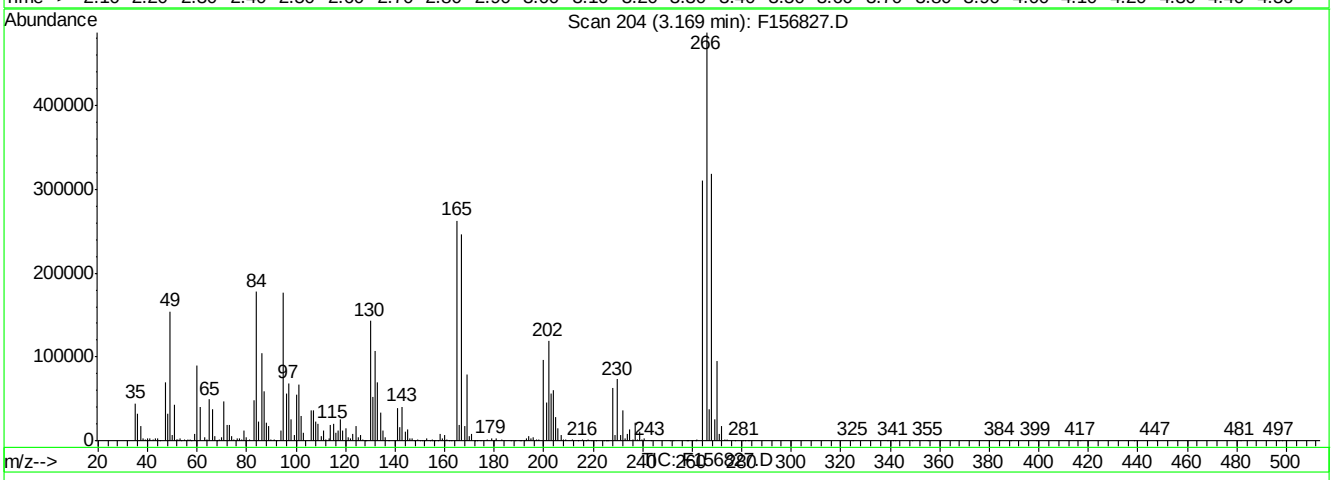
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
430.70	123	437.00	75	446.45	175		
431.30	203	437.45	585	455.90	56		
431.50	101	438.30	382	470.10	51		
432.70	236	438.50	206	477.80	52		
434.00	204	439.30	243	483.40	57		
434.30	101	439.80	711	484.60	74		
434.60	166	441.10	52374				
435.00	99	442.10	345733				
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

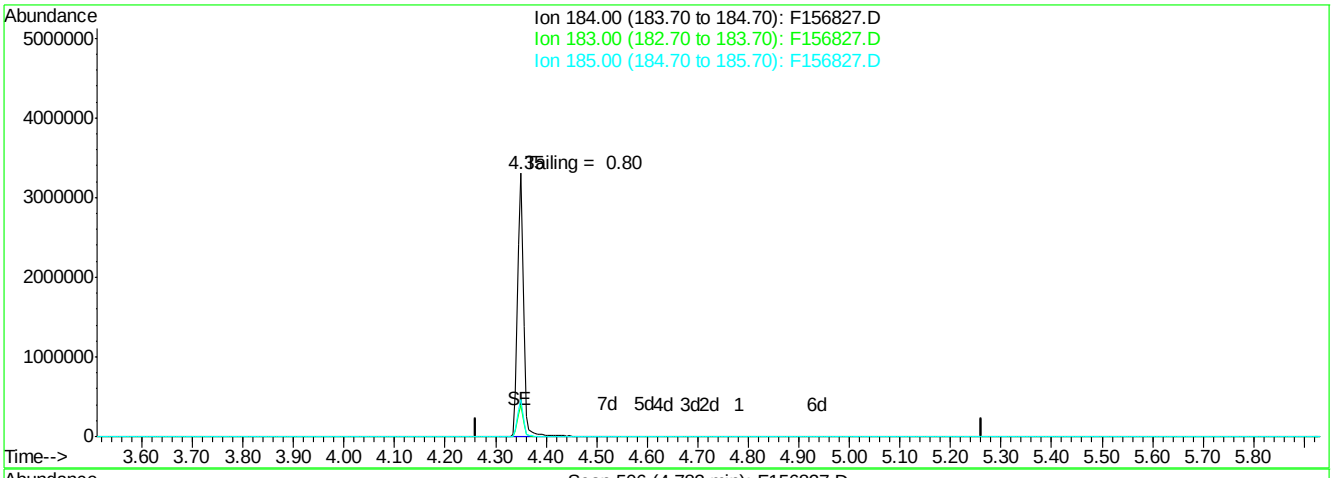
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	63.74
267.80	64.80	65.33
0.00	0.00	0.00

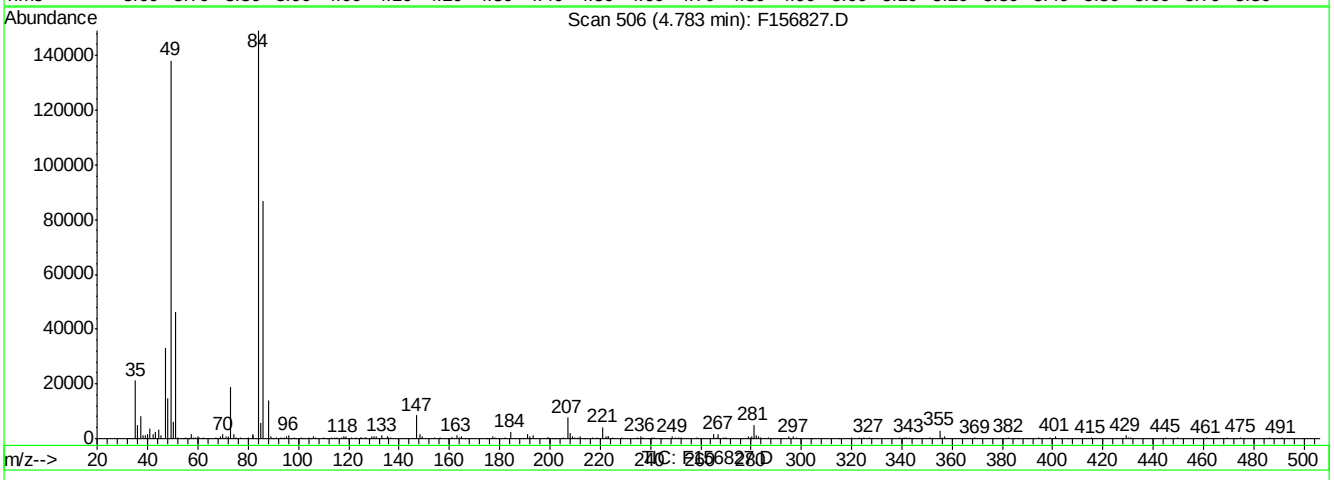
F156827.D DFTPPF.M Mon May 09 09:56:06 2016 RT1

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

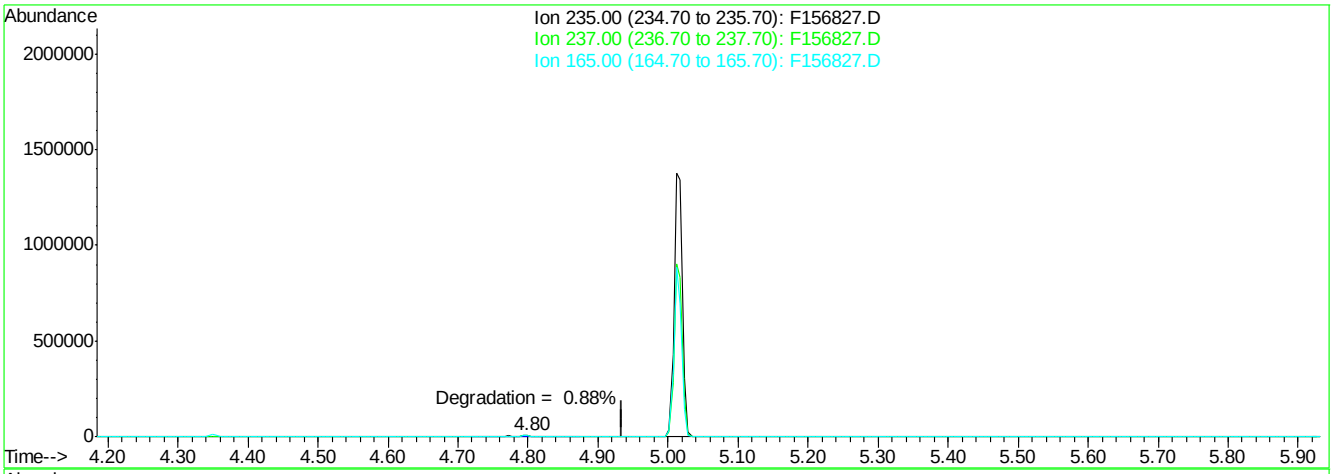
F156827.D DFTPPF.M Mon May 09 09:56:12 2016 RT1

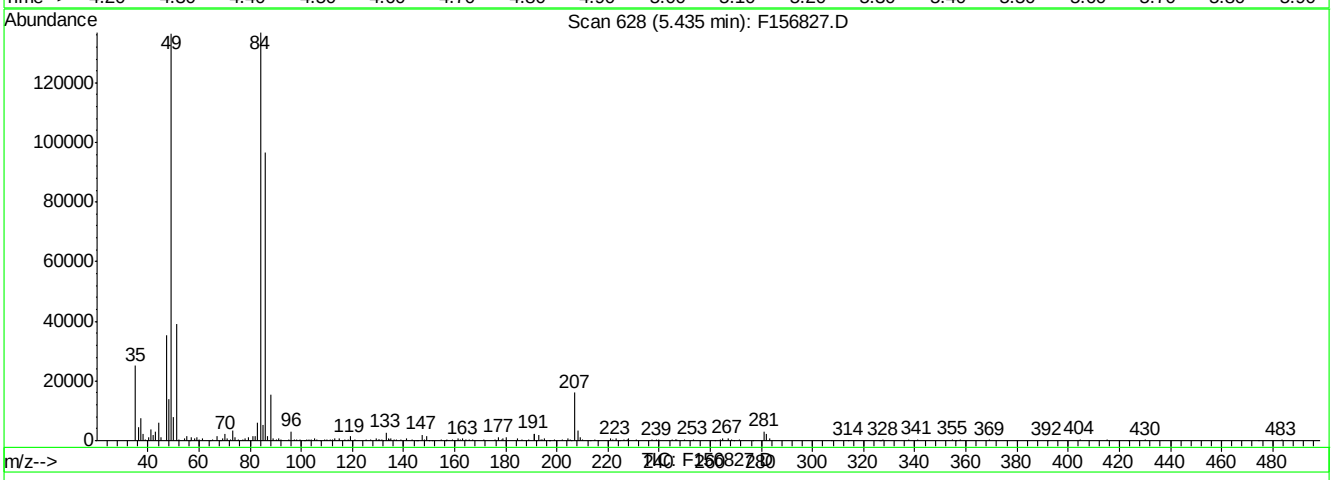
SGS ACCUTEST JC19473

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

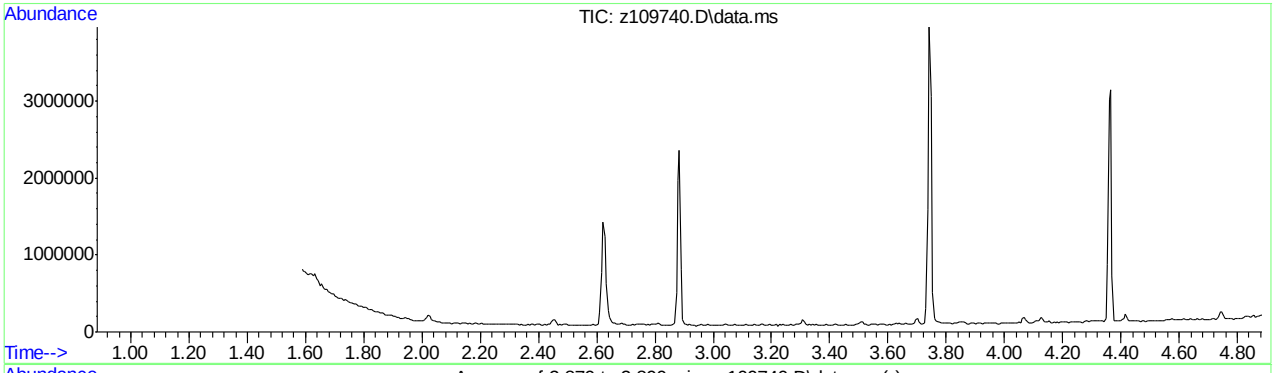
F156827.D DFTPPF.M Mon May 09 09:56:17 2016 RT1

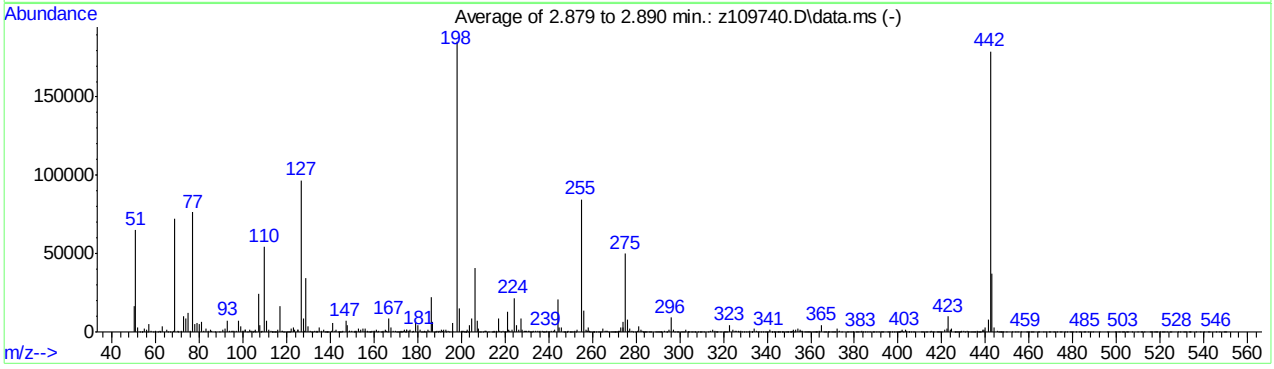
DFTPP

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

DFTPPZ.M Thu Apr 14 15:04:59 2016 RTE Page: 4

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

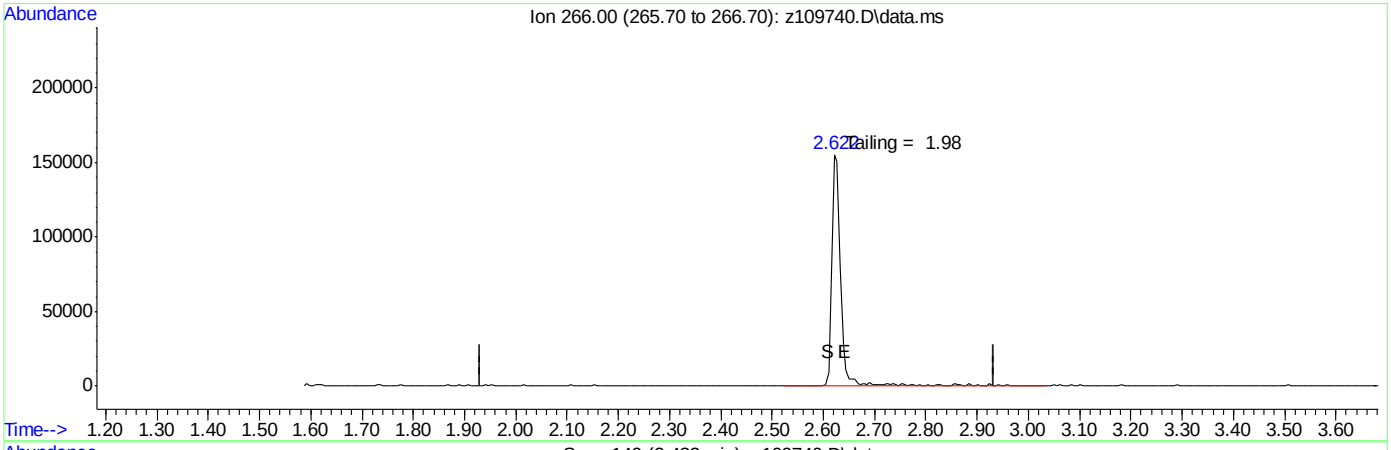
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
502.40	30	515.05	50	522.80	55	536.30	22
502.70	62	515.90	19	524.30	63	538.30	46
503.30	381	516.30	31	524.80	35	539.60	28
504.35	104	517.10	36	527.90	90	541.70	105
504.90	31	517.70	25	528.90	77	542.50	37
505.15	125	518.20	26	530.40	39	545.70	221
507.20	25	518.40	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		

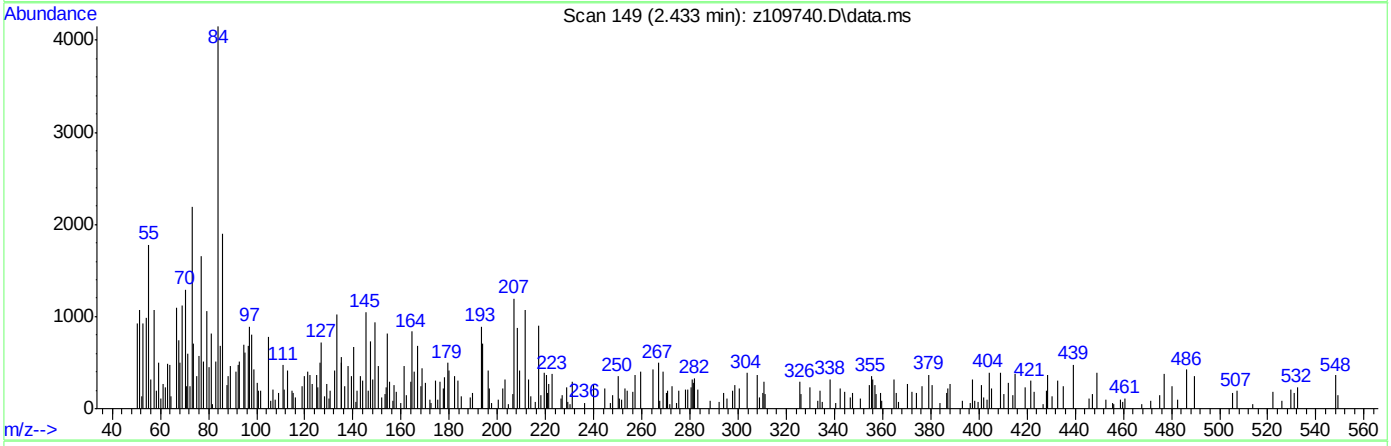
SGS ACCUTEST JC19473

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

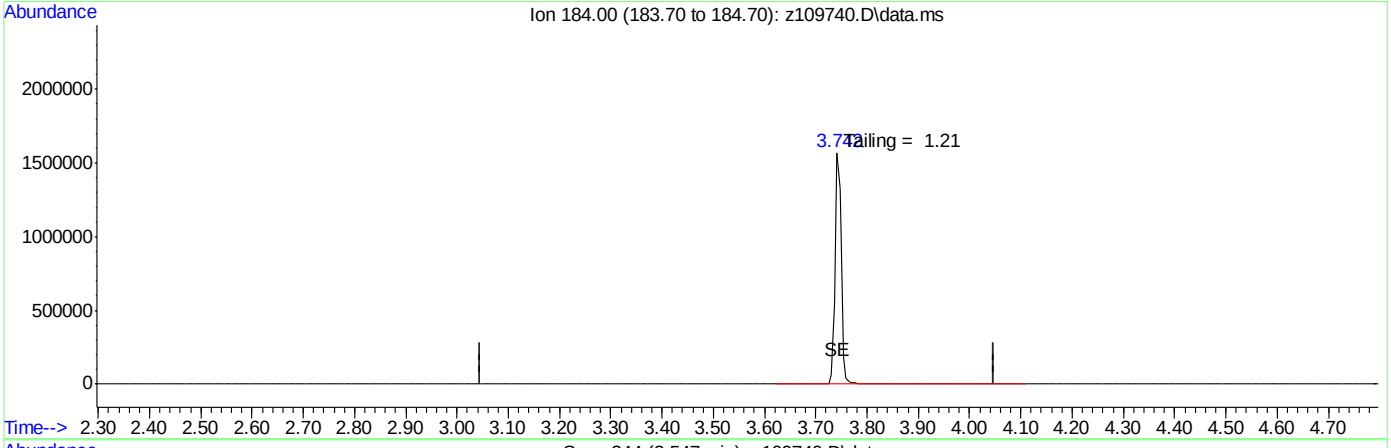
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

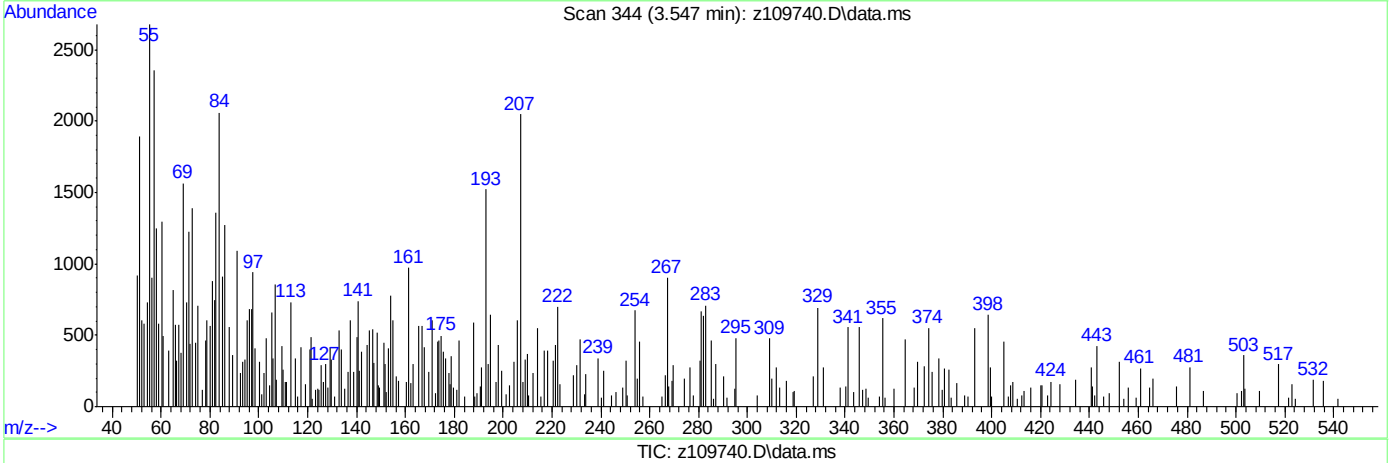
SGS ACCUTEST JC19473

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

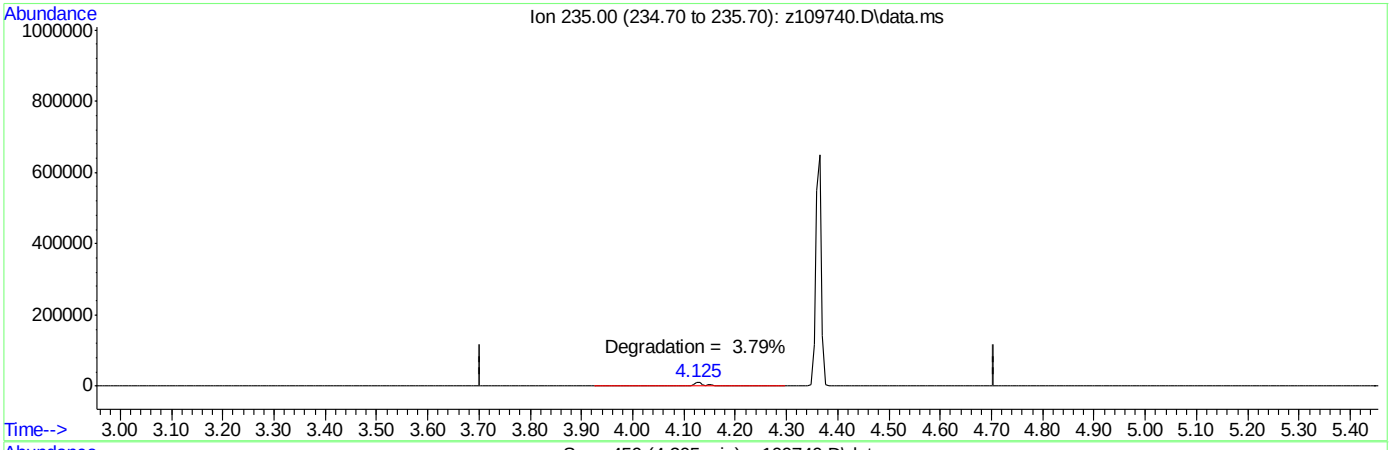
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

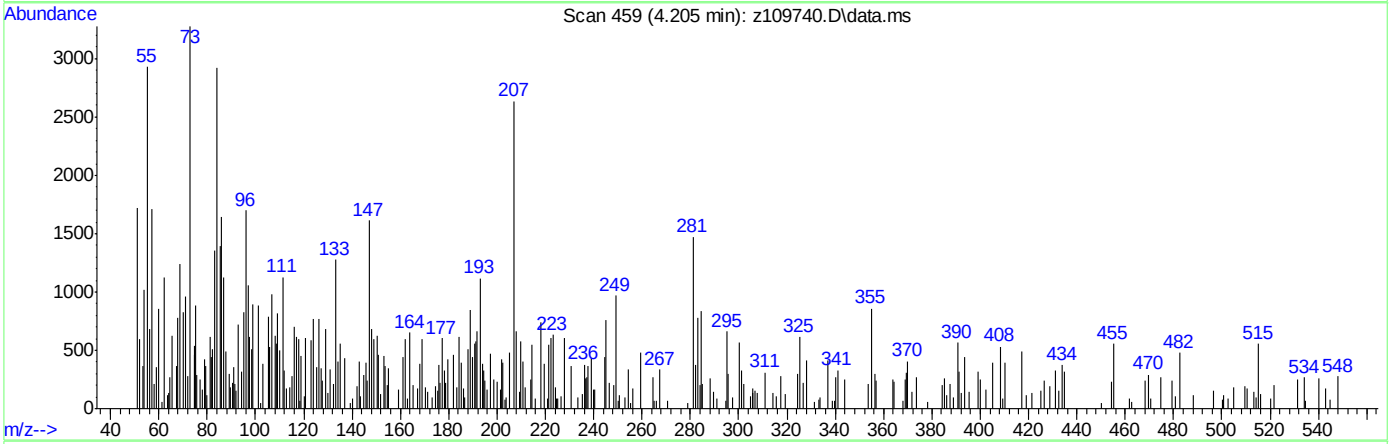
SGS ACCUTEST JC19473

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

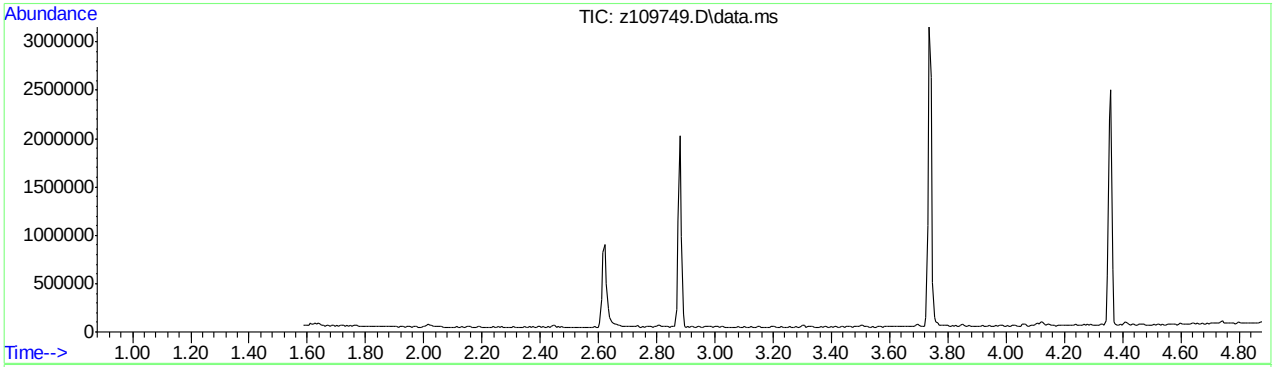
SGS ACCUTEST JC19473

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

Page: 1

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

DFTPPZ.M Thu Apr 14 09:33:45 2016 RTE Page: 4

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						

7.5.16

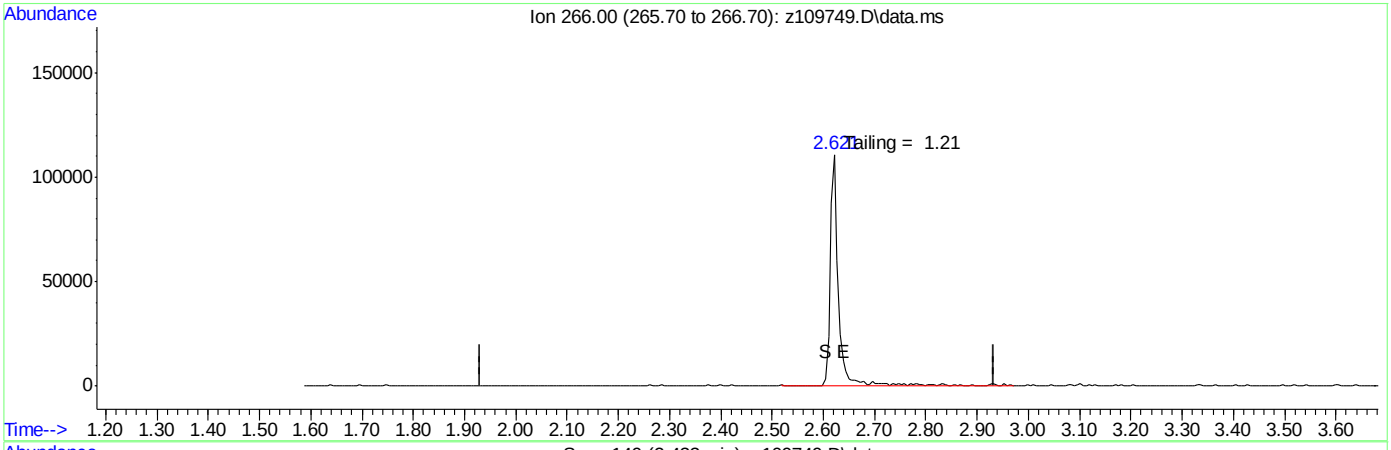
7

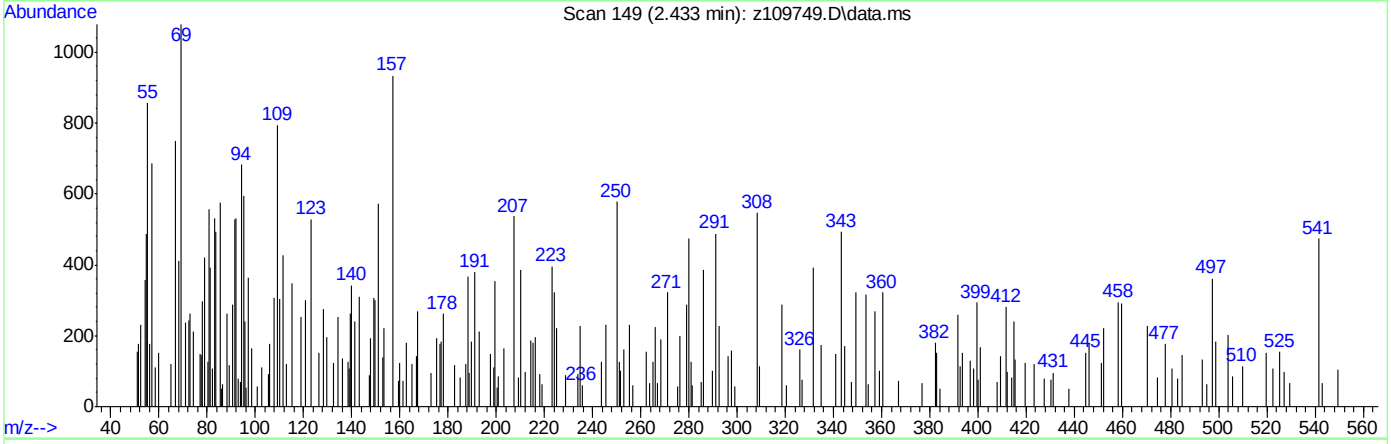
SGS ACCUTEST JC19473

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

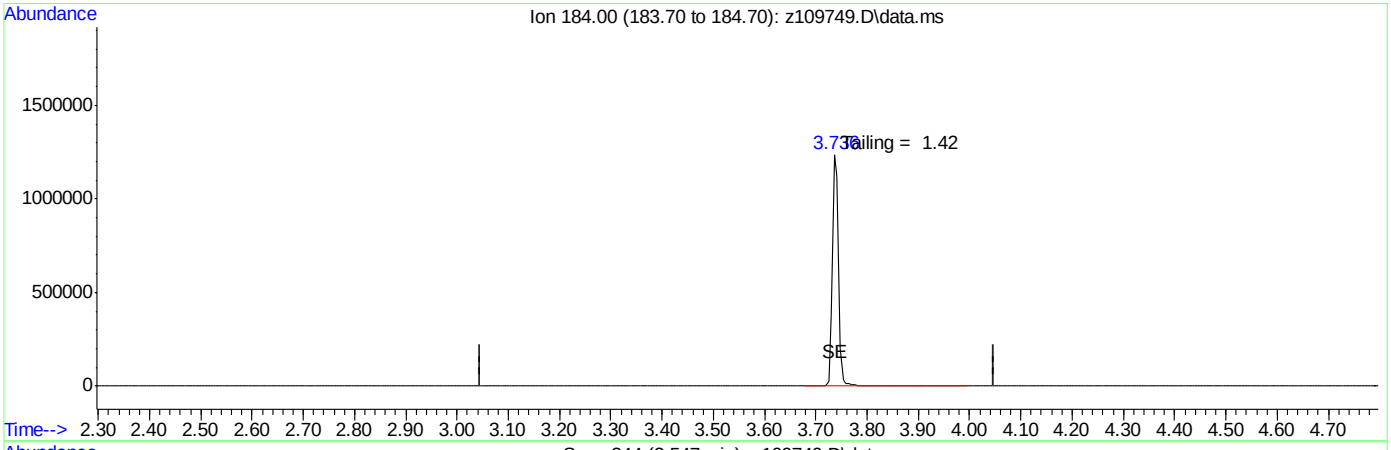
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

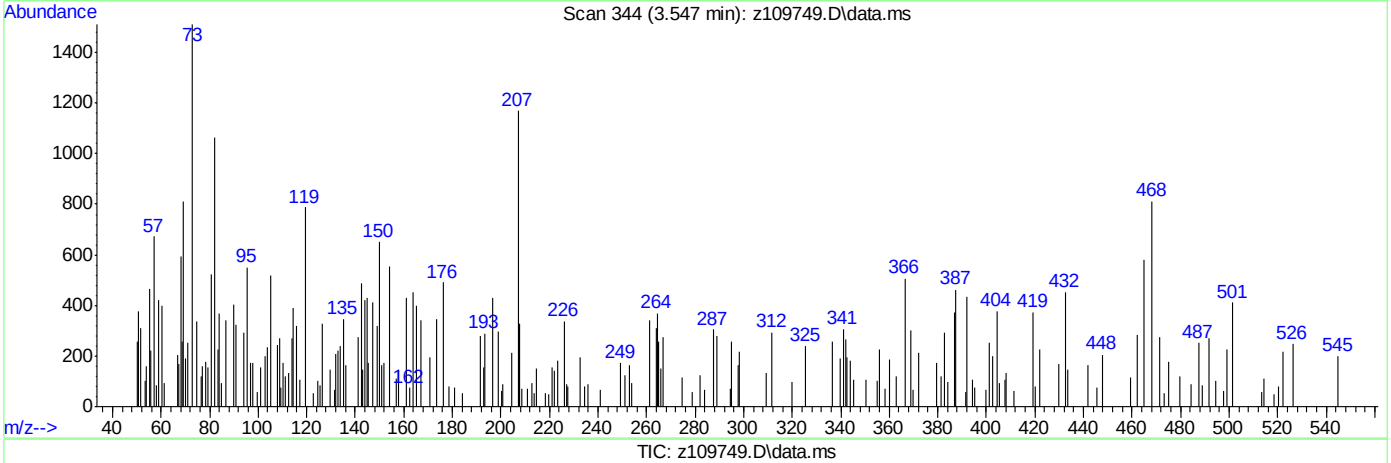
SGS ACCUTEST JC19473

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

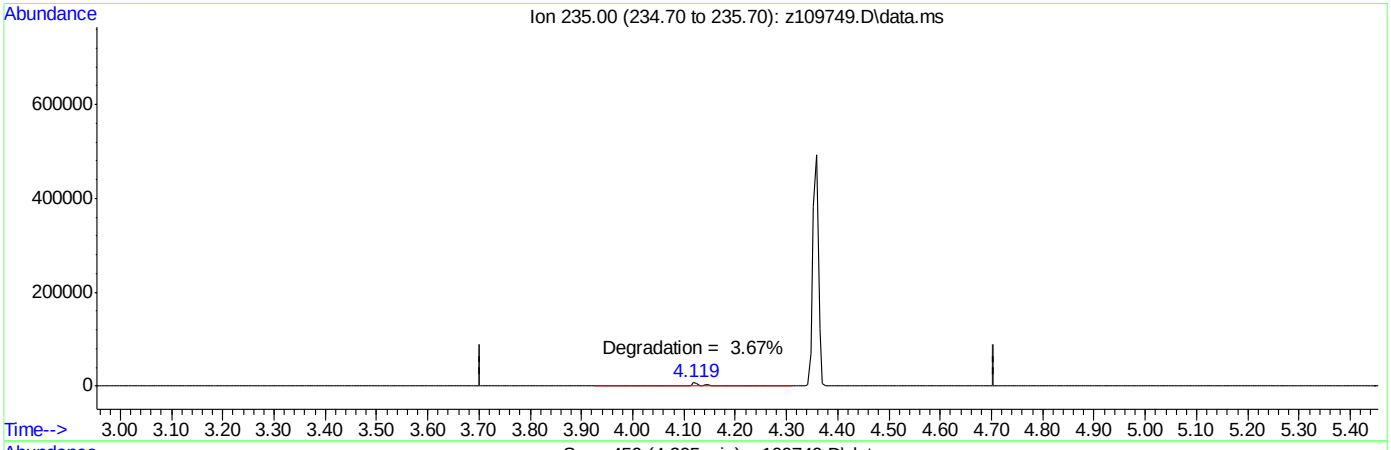
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

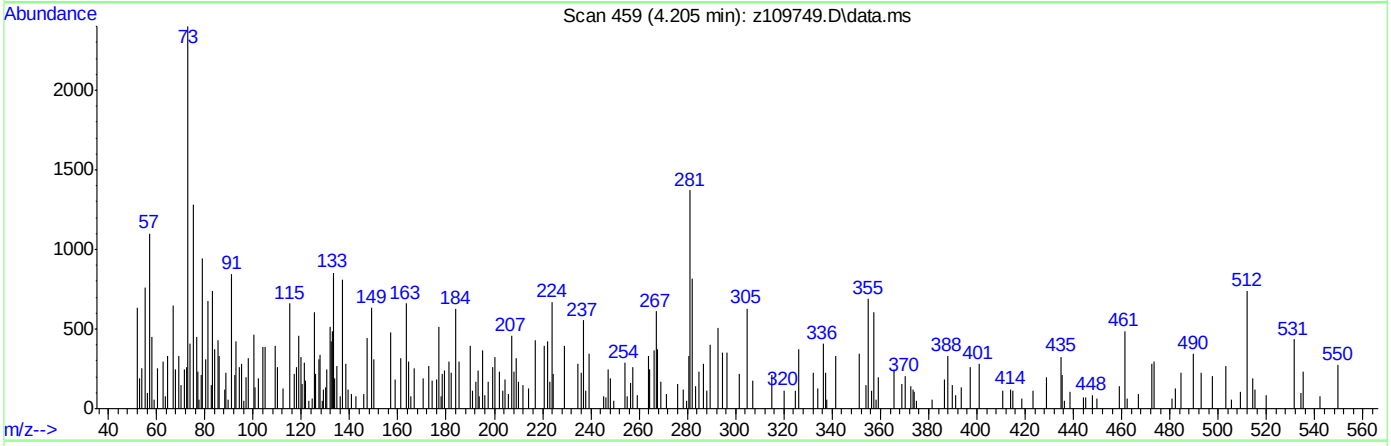
SGS ACCUTEST JC19473

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

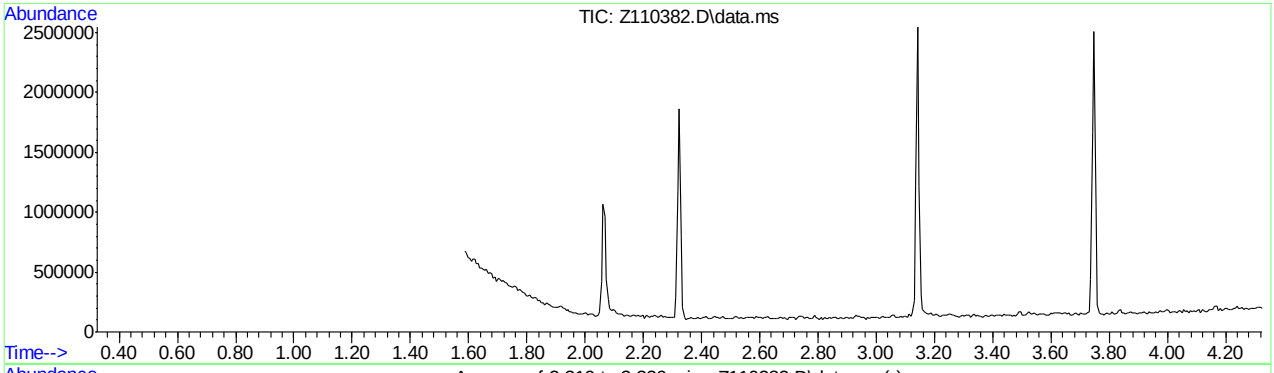
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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

DFTPPZ.M Thu May 05 09:44:14 2016 RTE

Page: 1

SGS ACCUTEST JC19473

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

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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

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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

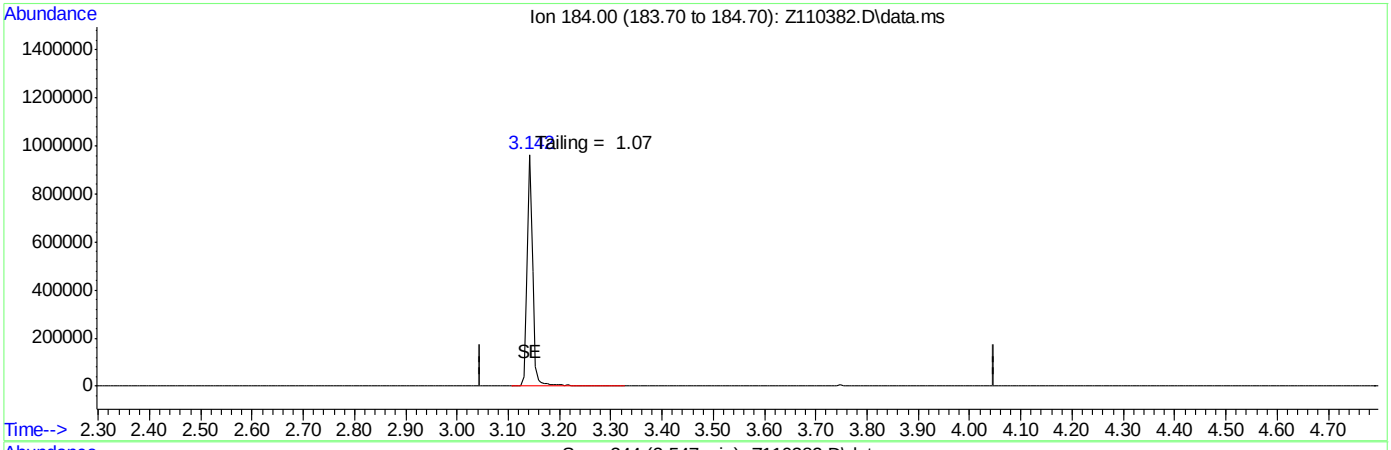
Average of 2.319 to 2.330 min.: Z110382.D\data.ms
dftpp
Modified:subtracted

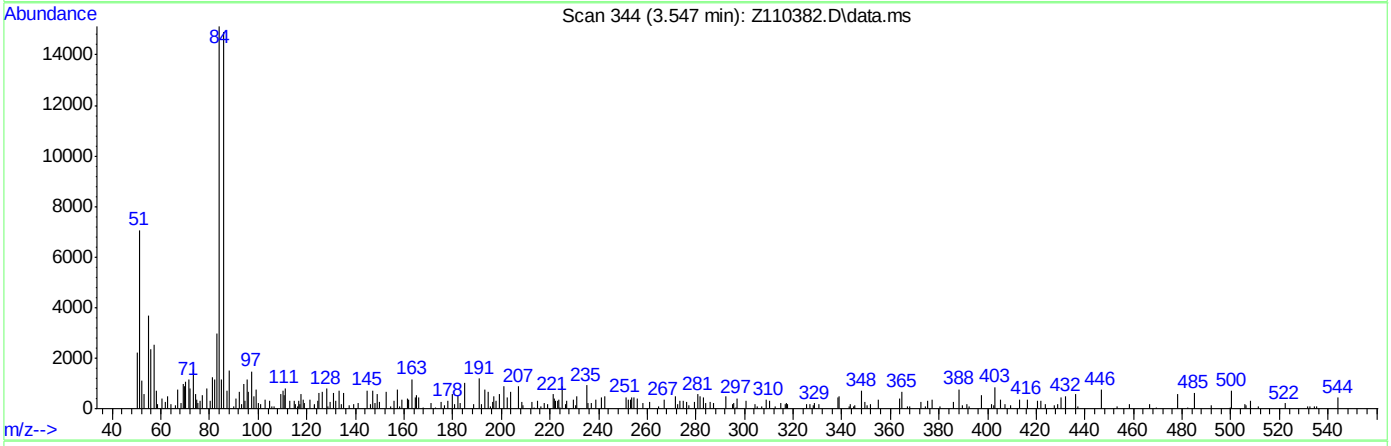
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
472.80	23	492.00	26	513.00	125	536.60	174
473.20	190	493.00	25	513.70	125	540.60	51
474.00	78	493.40	78	515.80	138	541.50	149
475.60	181	494.80	46	524.30	120	542.70	18
477.15	159	495.00	91	524.80	22	545.10	163
478.50	122	497.60	22	525.30	26	546.40	44
479.50	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

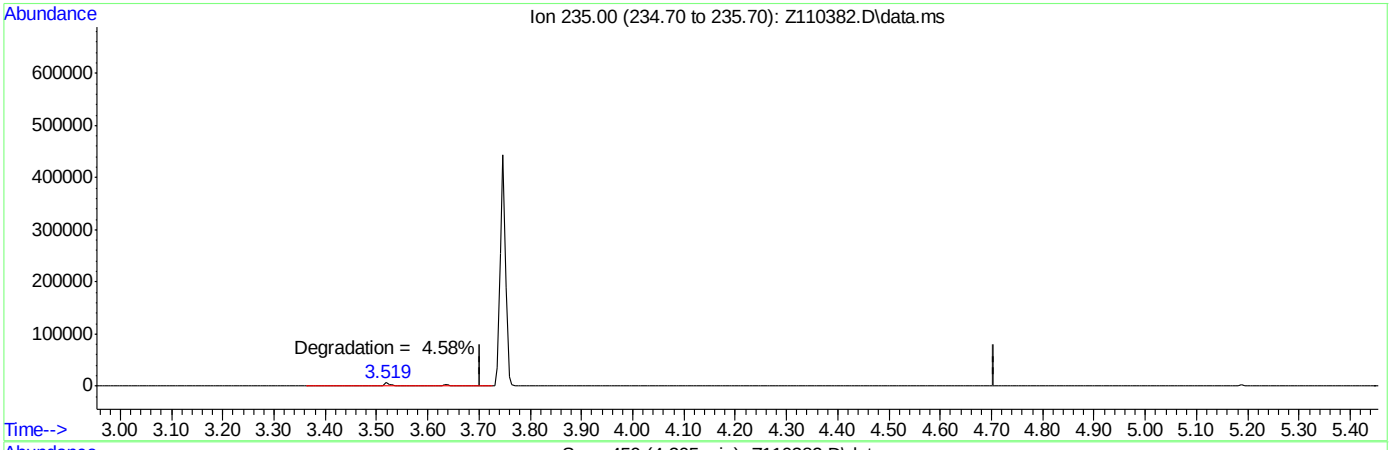
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

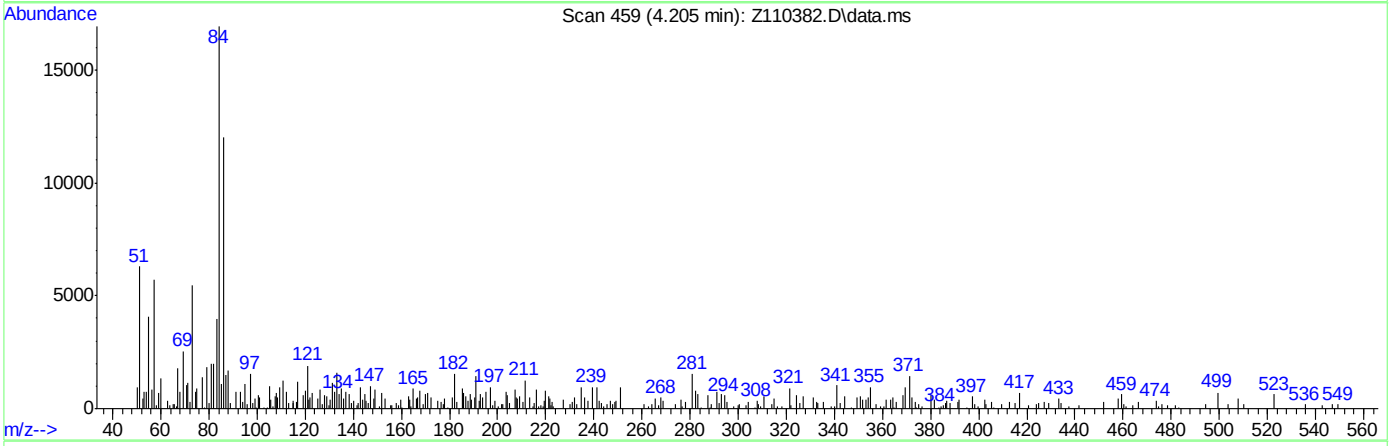
SGS ACCUTEST JC19473

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

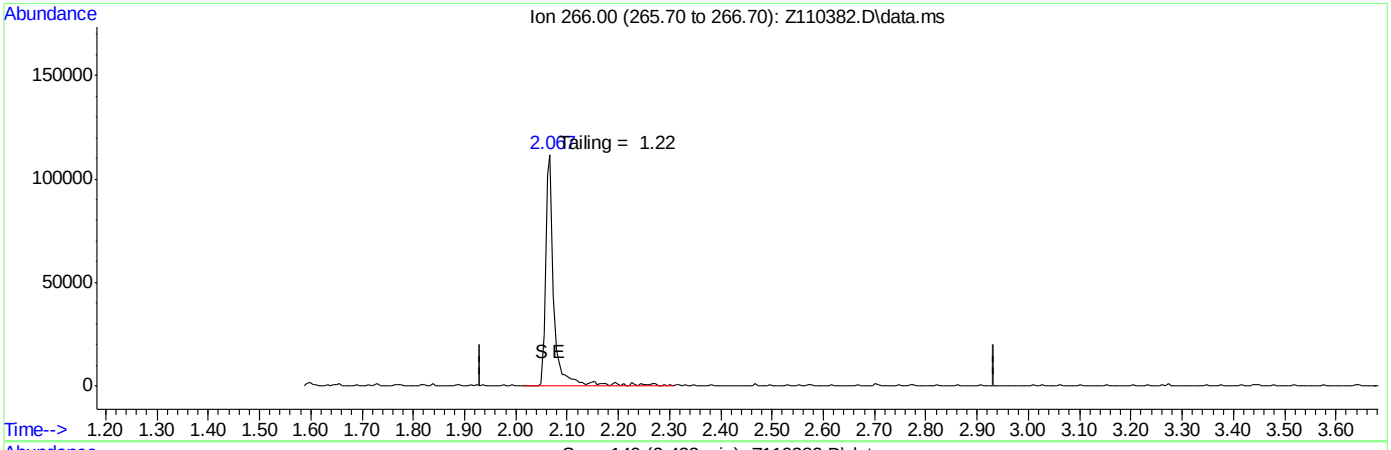
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

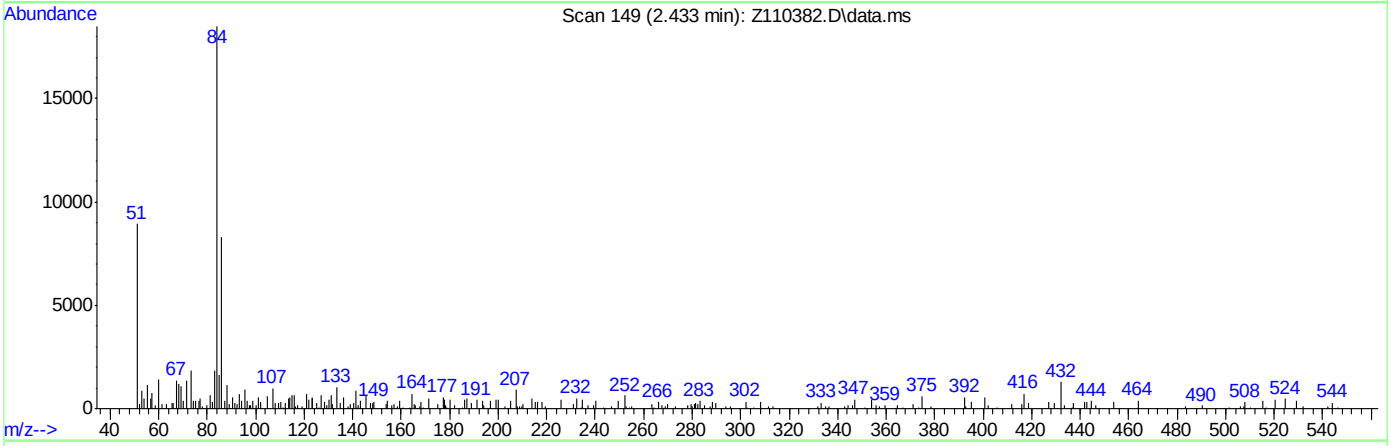
SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

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

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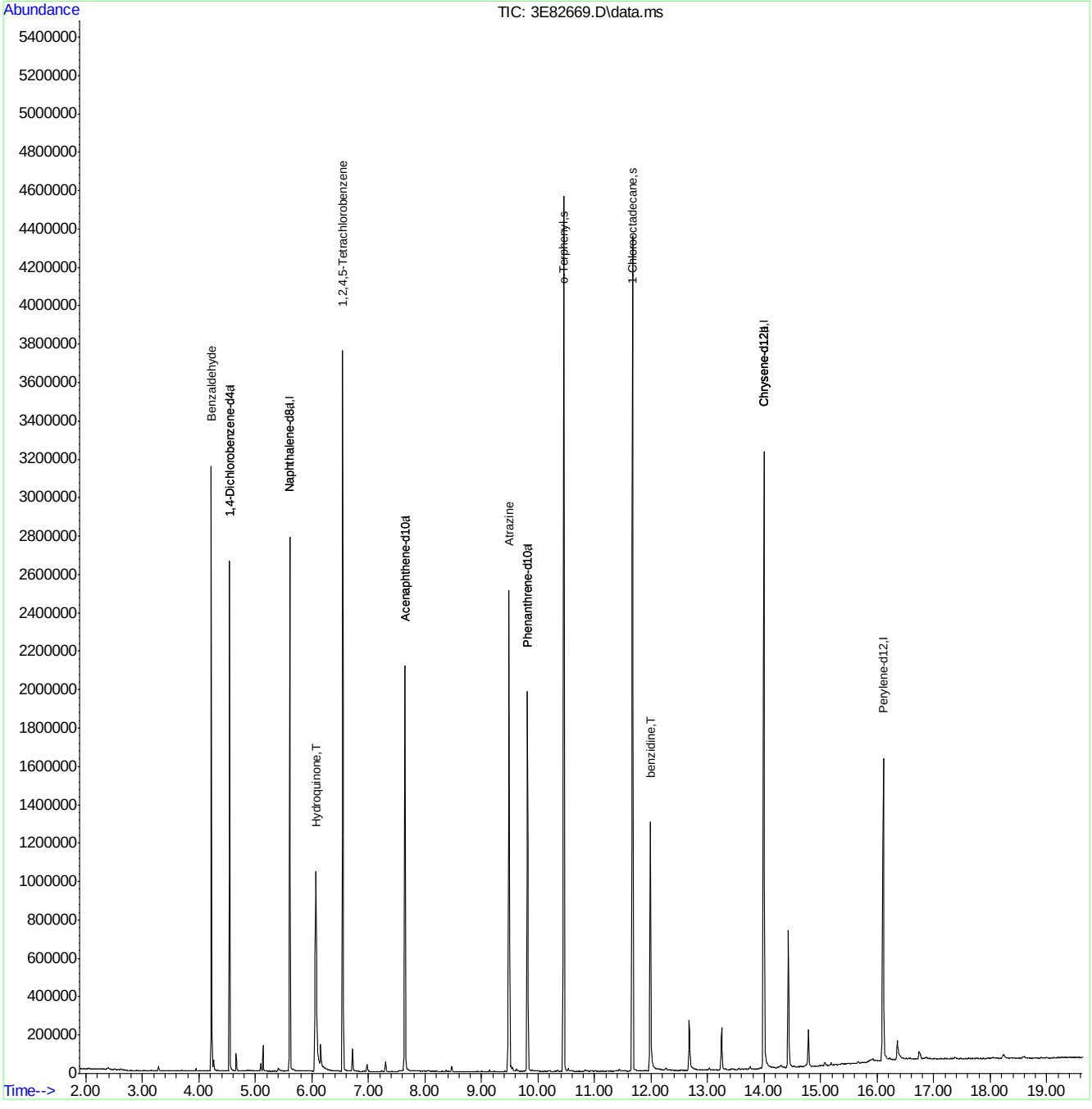
SGS ACCUTEST JC19473

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



M3E3620.M Wed Apr 27 08:57:48 2016 MS3E

SGS ACCUTEST JC19473

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

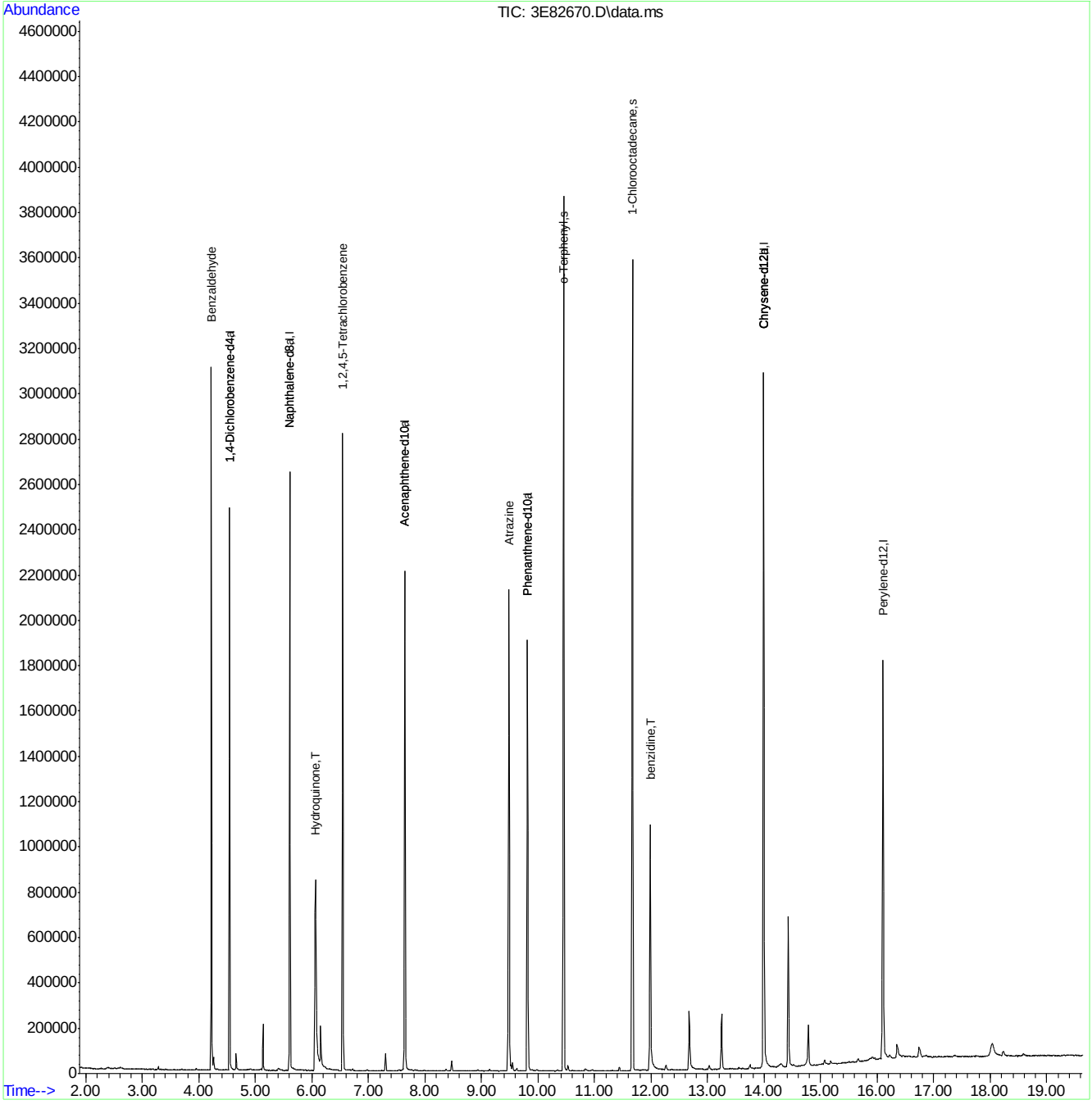
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

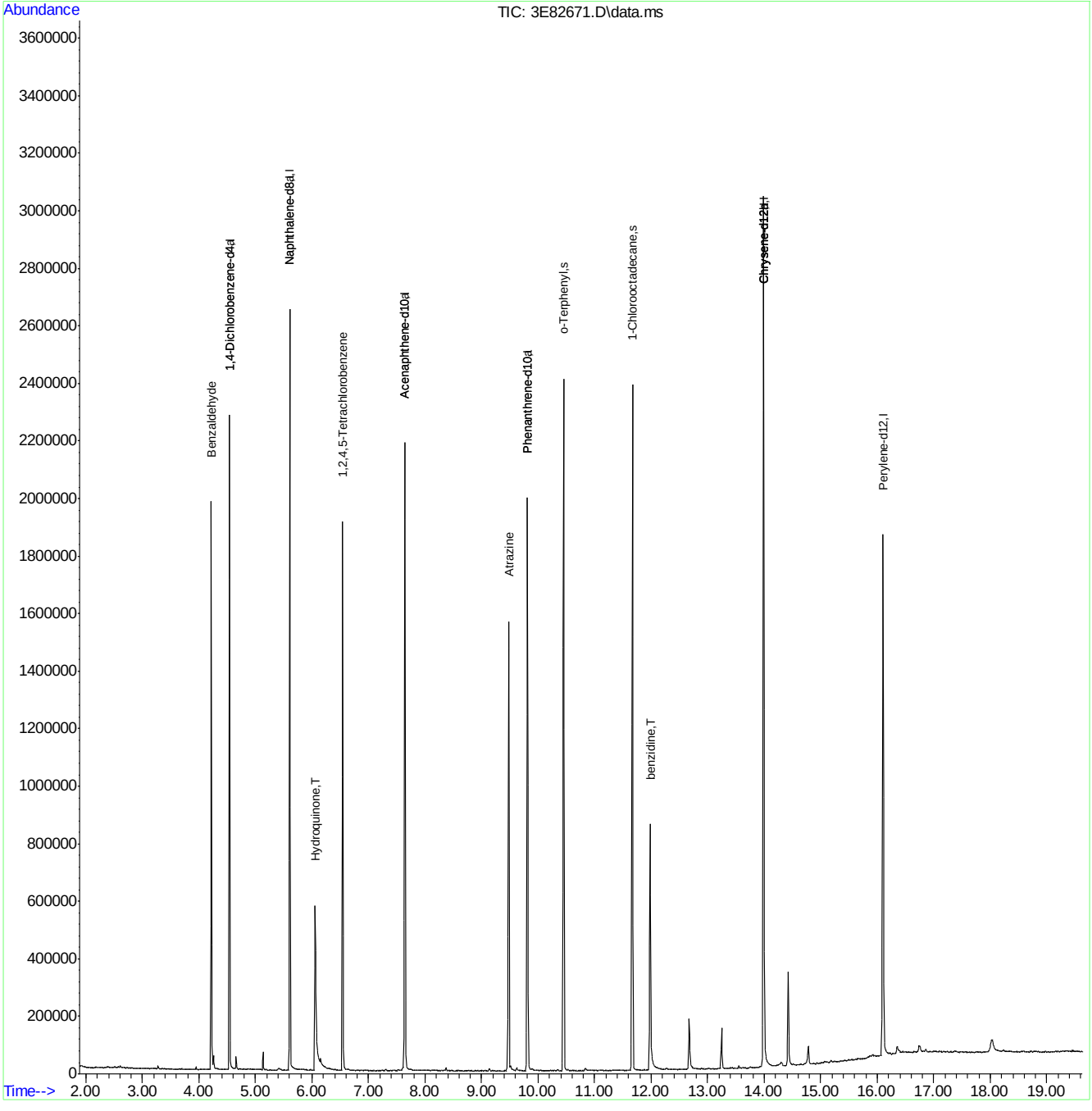
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

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%	

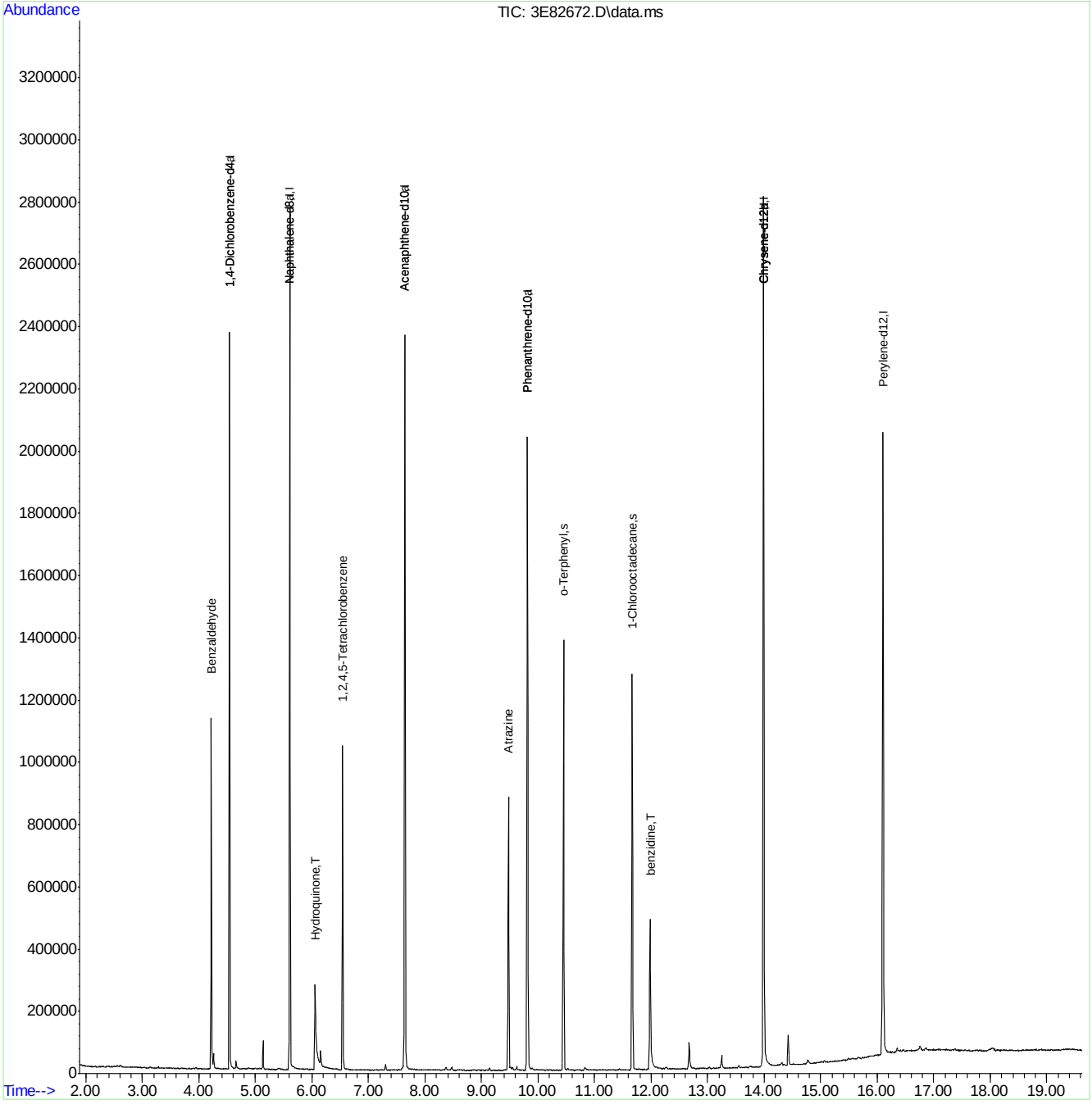
Target Compounds					Qvalue
103) Benzaldehyde	4.213	105	194301	40.67 ppm	89
105) 1,2,4,5-Tetrachloroben...	6.540	216	162939	24.33 ppm	99
107) Atrazine	9.476	215	59482	25.64 ppm	89
111) benzidine	11.985	184	282179	35.49 ppm	99
113) Hydroquinone	6.053	110	217445	26.20 ppm	92

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

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%		

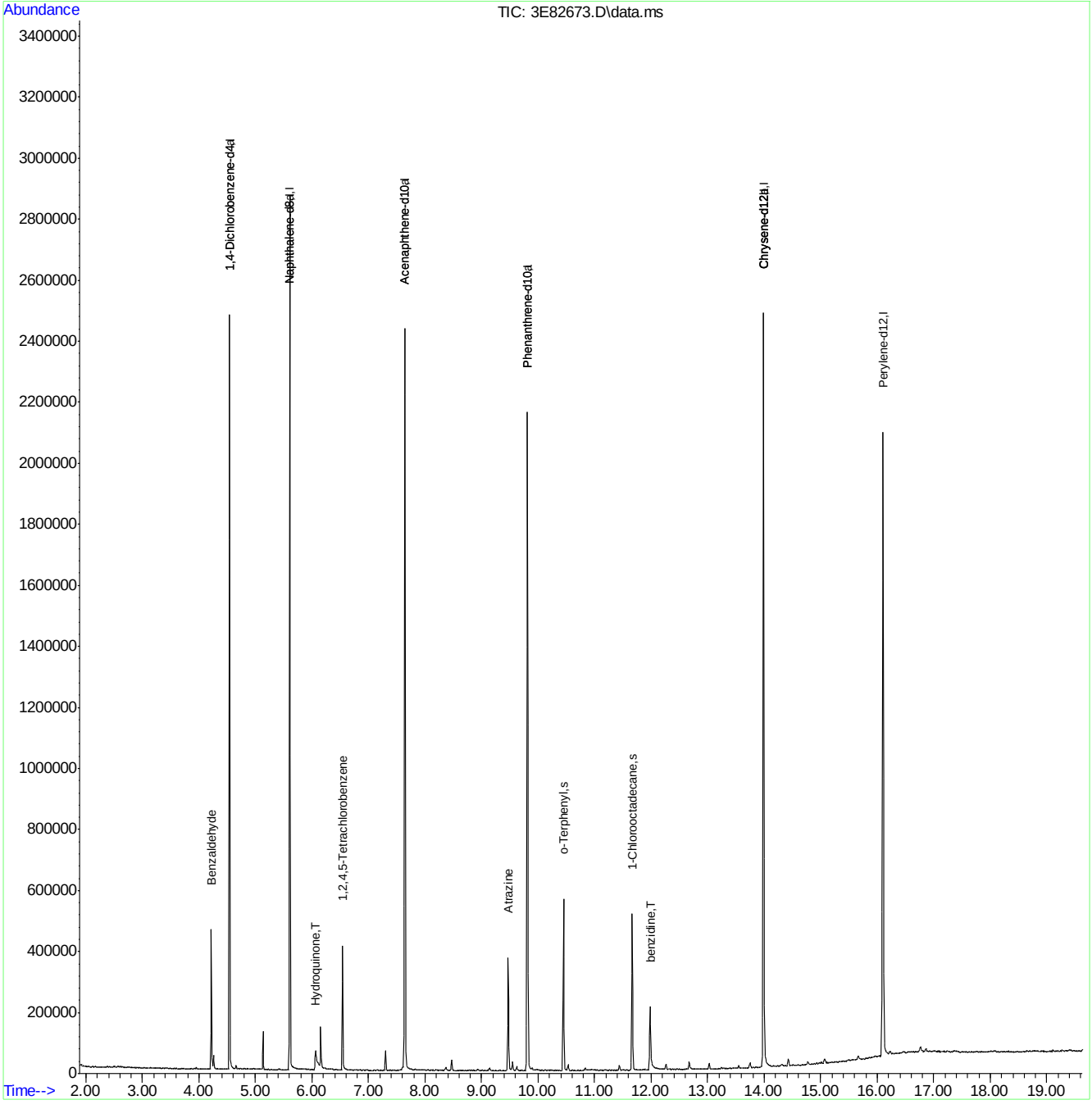
Target Compounds					Qvalue
103) Benzaldehyde	4.213	105	82240	16.56 ppm	89
105) 1,2,4,5-Tetrachloroben...	6.540	216	67129	9.66 ppm	99
107) Atrazine	9.471	215	24114	10.02 ppm	87
111) benzidine	11.985	184	127420	15.57 ppm	98
113) Hydroquinone	6.064	110	77949	9.08 ppm	97

(#) = 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



SGS ACCUTEST JC19473

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

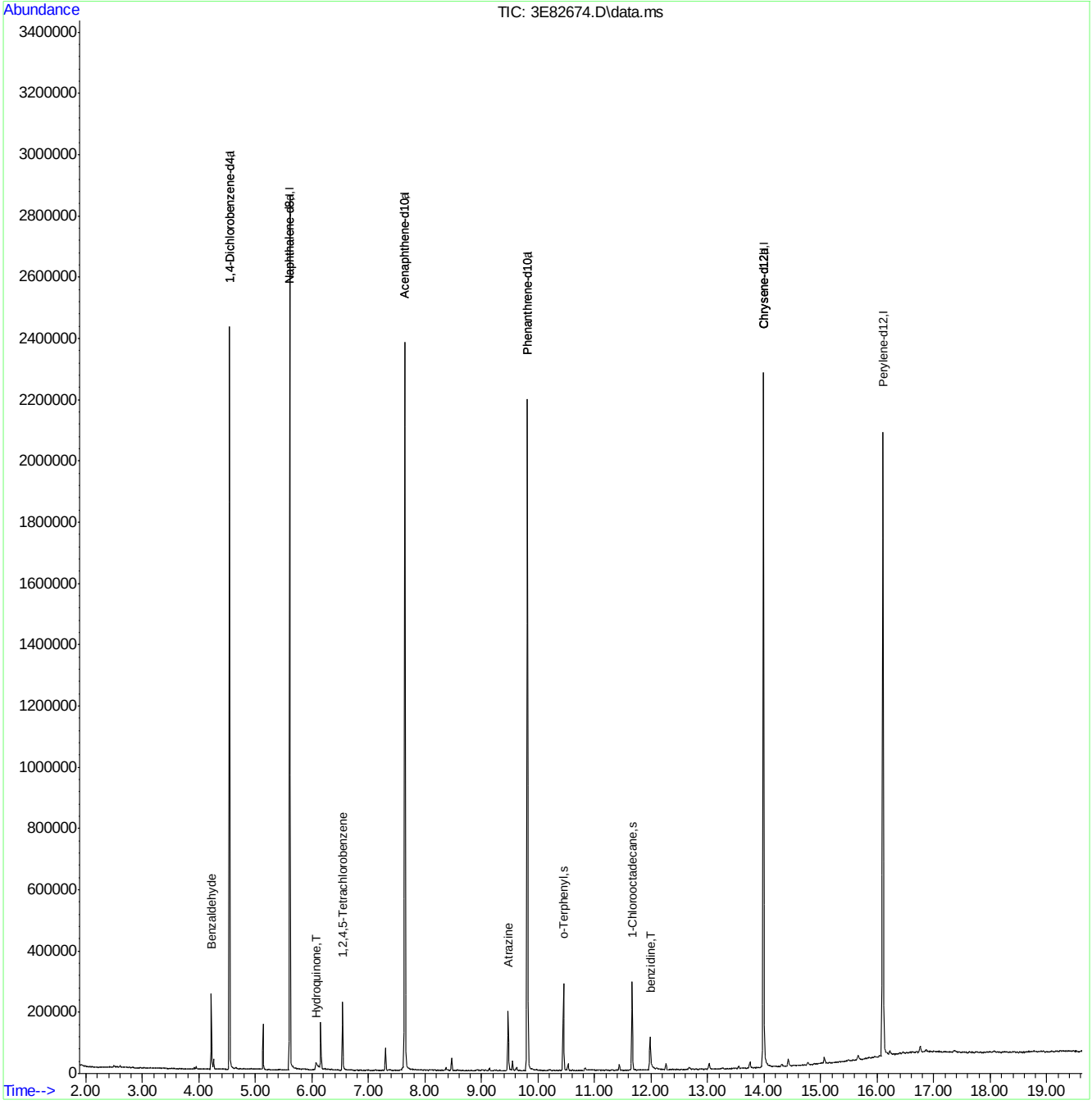
7.6.6 7

SGS ACCUTEST JC19473

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%	

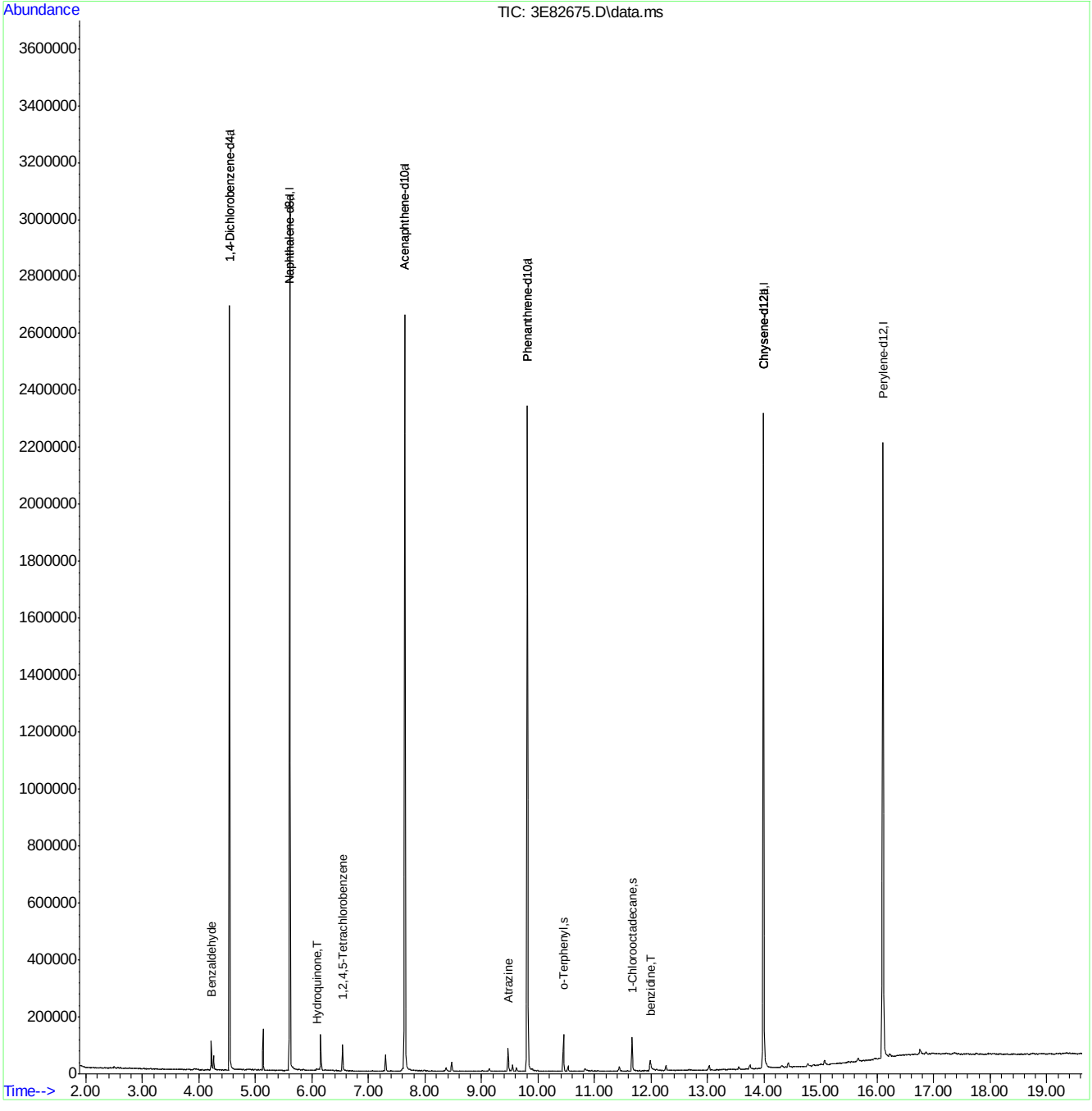
Target Compounds							Qvalue
103) Benzaldehyde	4.219	105	19710	3.60	ppm		98
105) 1,2,4,5-Tetrachloroben...	6.540	216	15678	2.09	ppm		94
107) Atrazine	9.466	215	5556	2.18	ppm	#	74
111) benzidine	11.985	184	27592	3.15	ppm		97
113) Hydroquinone	6.096	110	10721	1.14	ppm		96

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

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

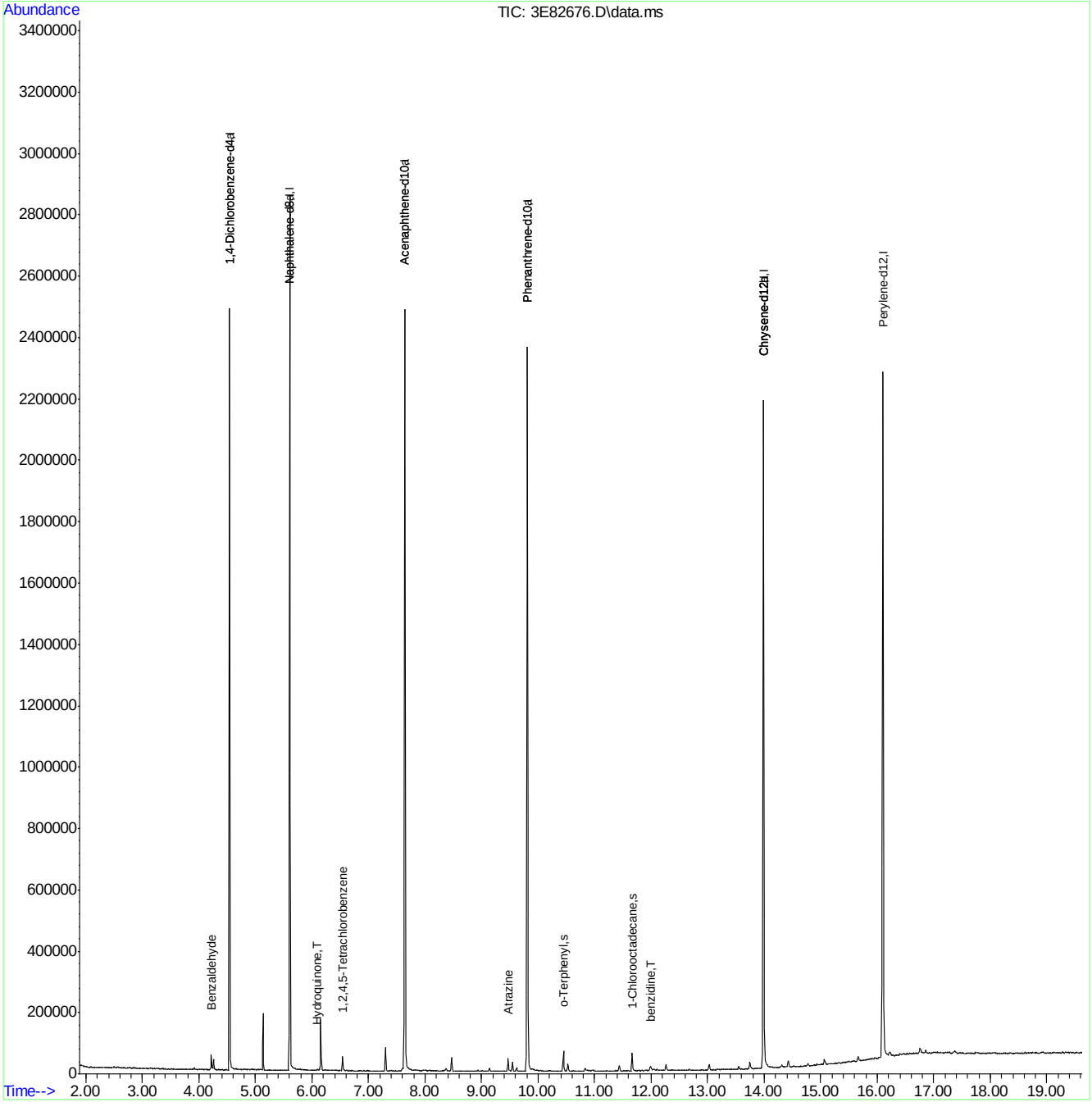
7.6.8

7

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



SGS ACCUTEST JC19473

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

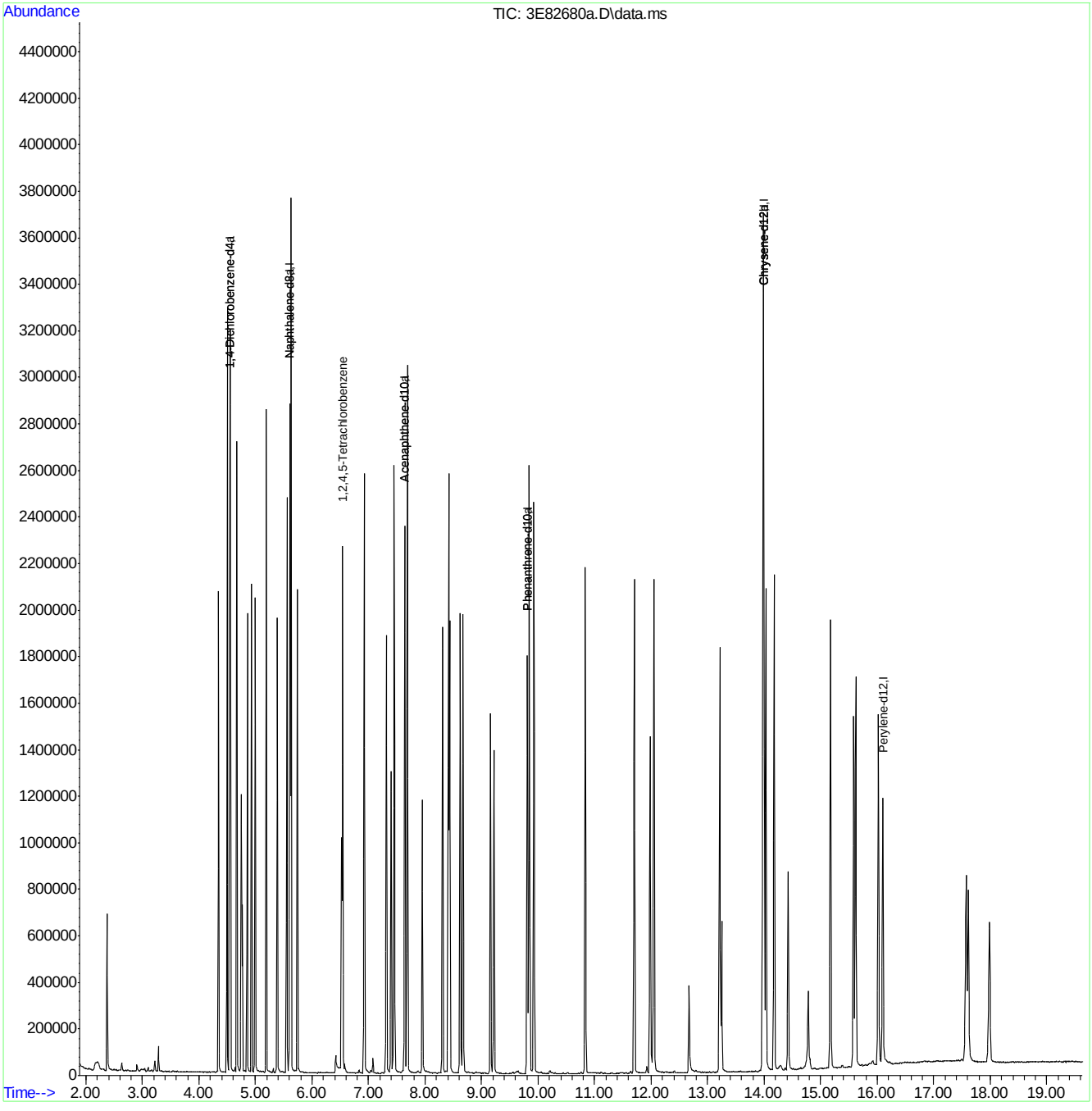
7

SGS ACCUTEST JC19473

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%

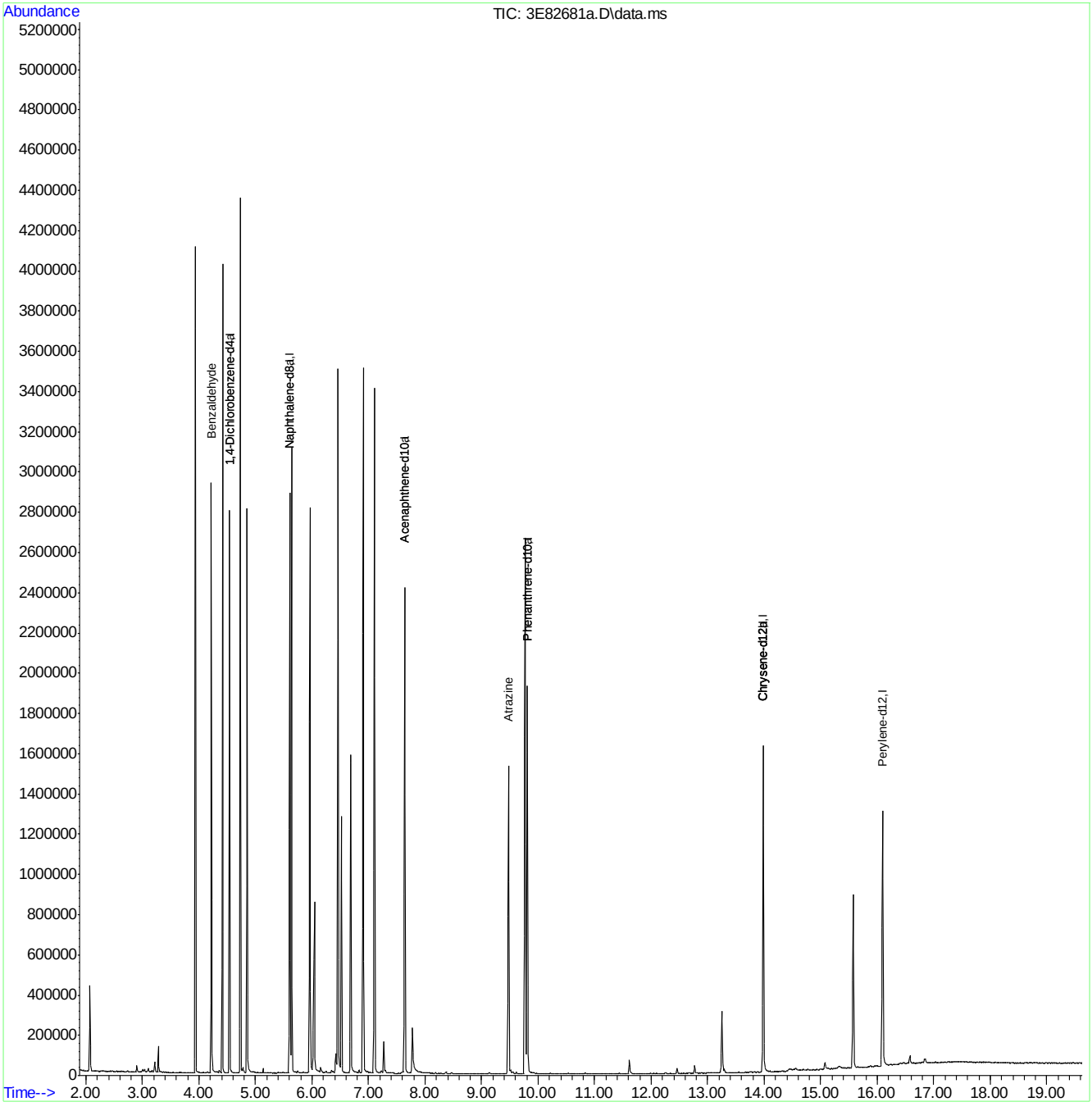
Target Compounds					Qvalue
103) Benzaldehyde	4.219	105	427003	52.55 ppm	96
107) Atrazine	9.476	215	102078	49.29 ppm	93

(#) = 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 JC19473

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

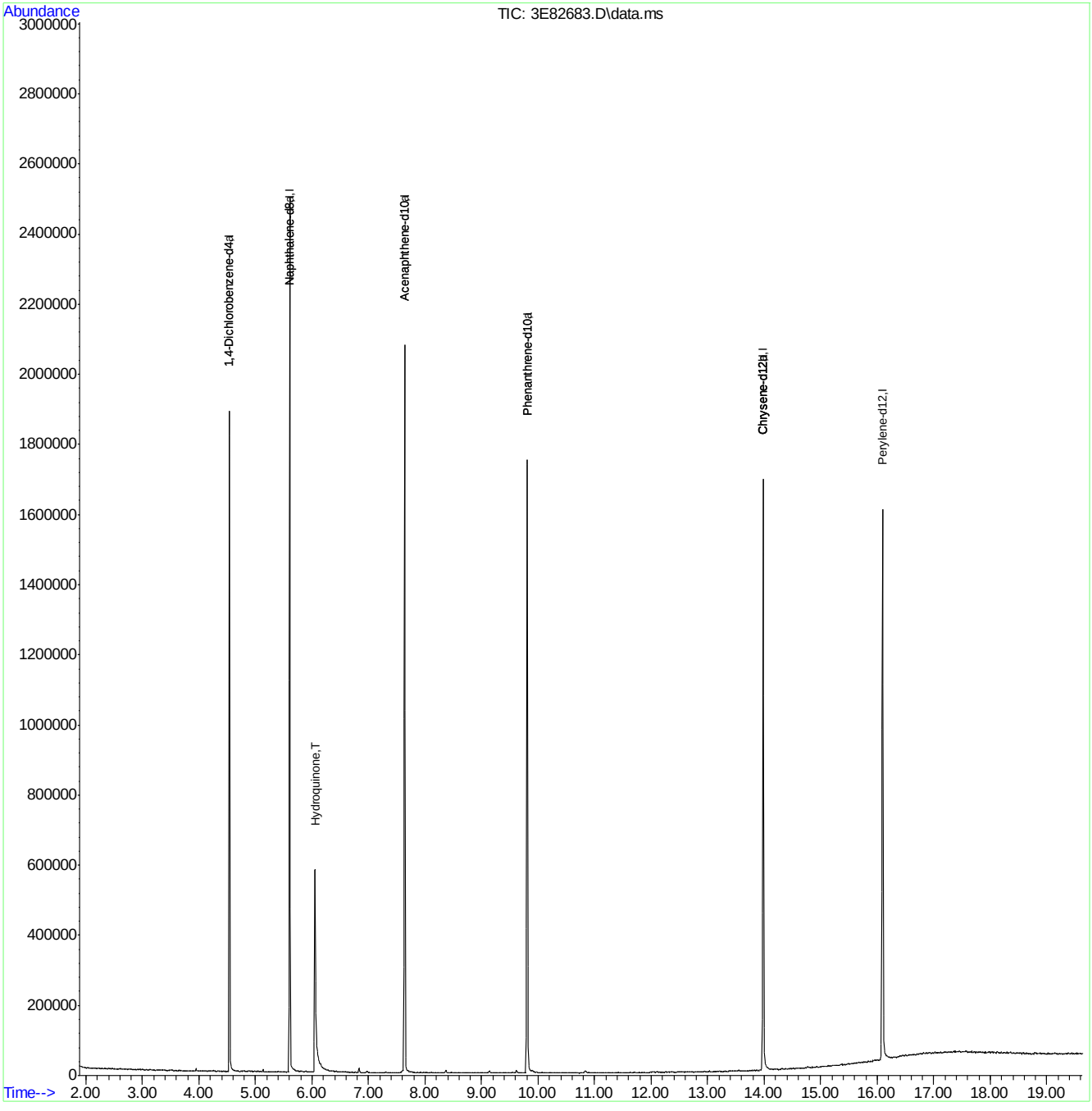
7

SGS ACCUTEST JC19473

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

Page: 2

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

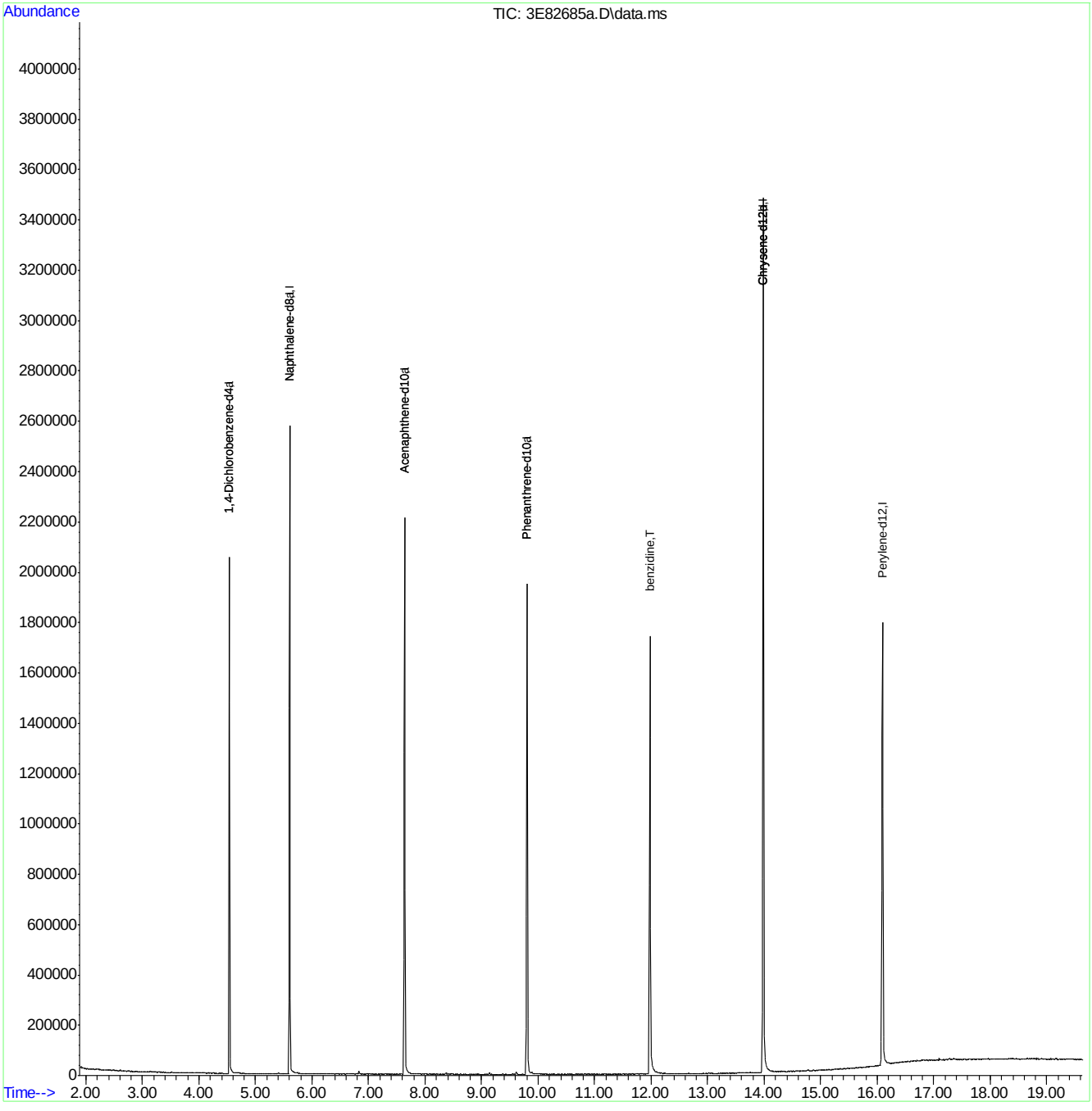
7

SGS ACCUTEST JC19473

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

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

SGS ACCUTEST JC19473

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 JC19473

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

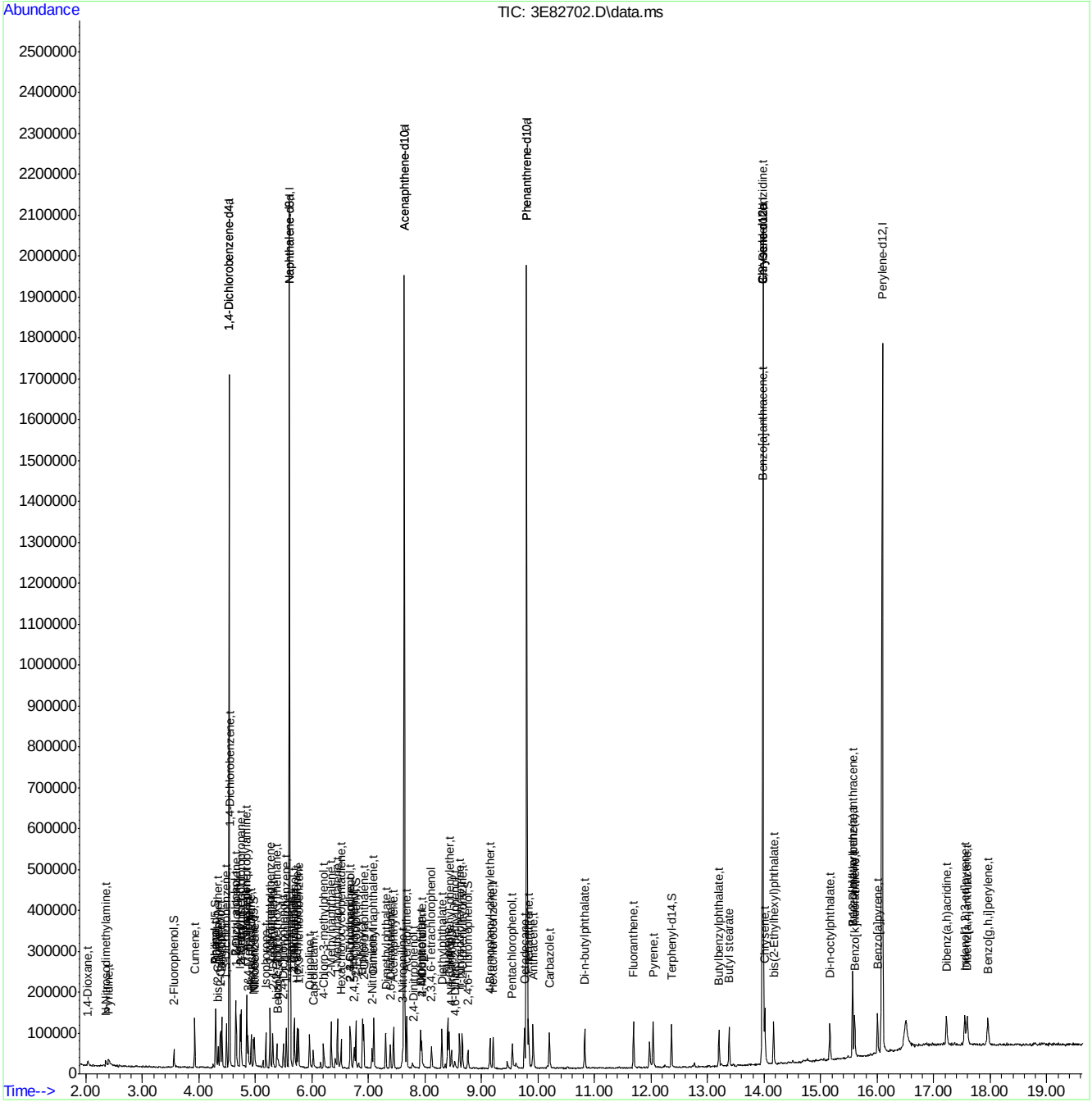
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



M3E3623.M Thu Apr 28 09:27:58 2016 MS3E Page: 4

SGS 400 of 1308 ACCUTEST JC19473

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 JC19473

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 JC19473

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

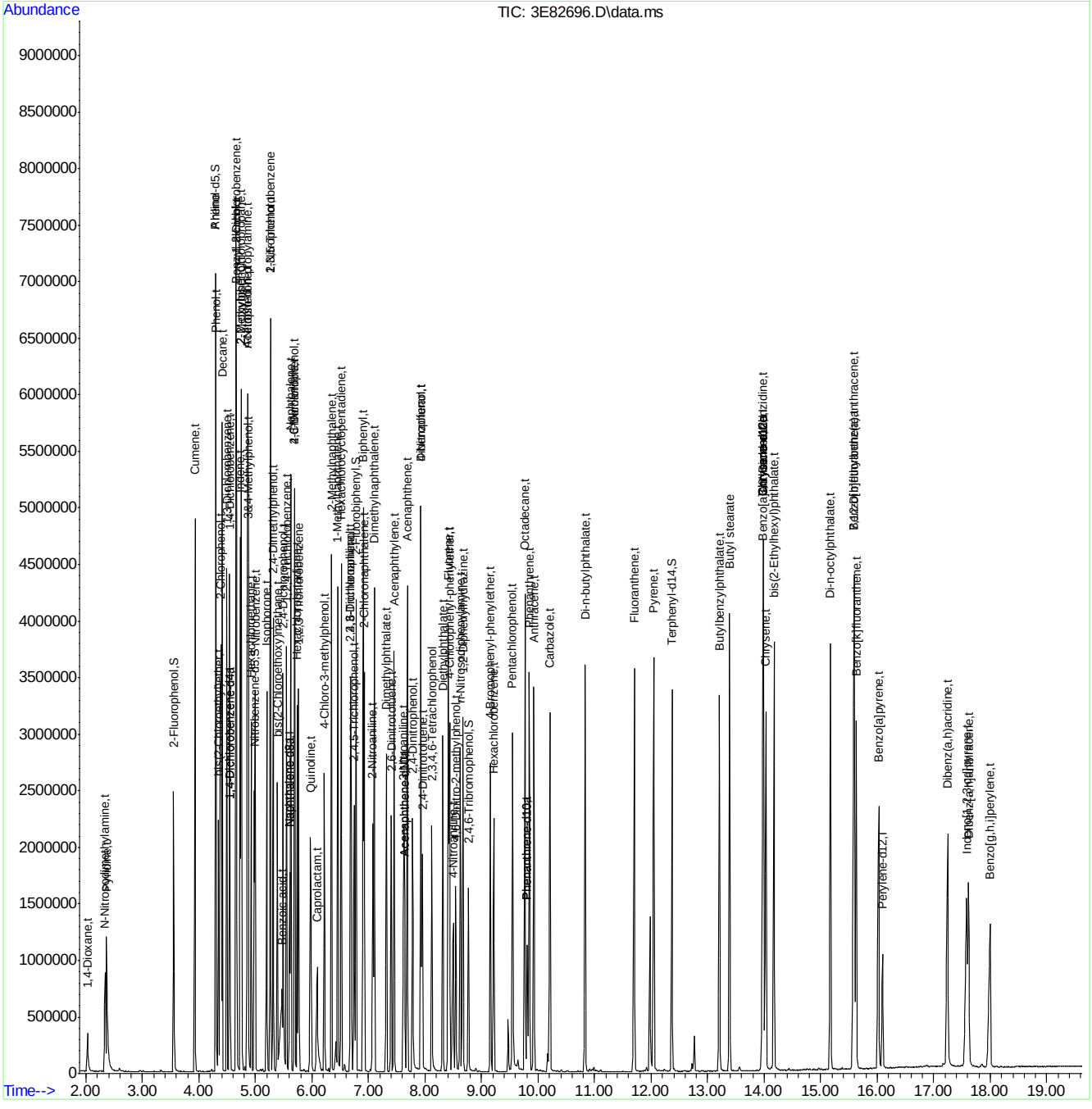
7

SGS ACCUTEST JC19473

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 JC19473

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 JC19473

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

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

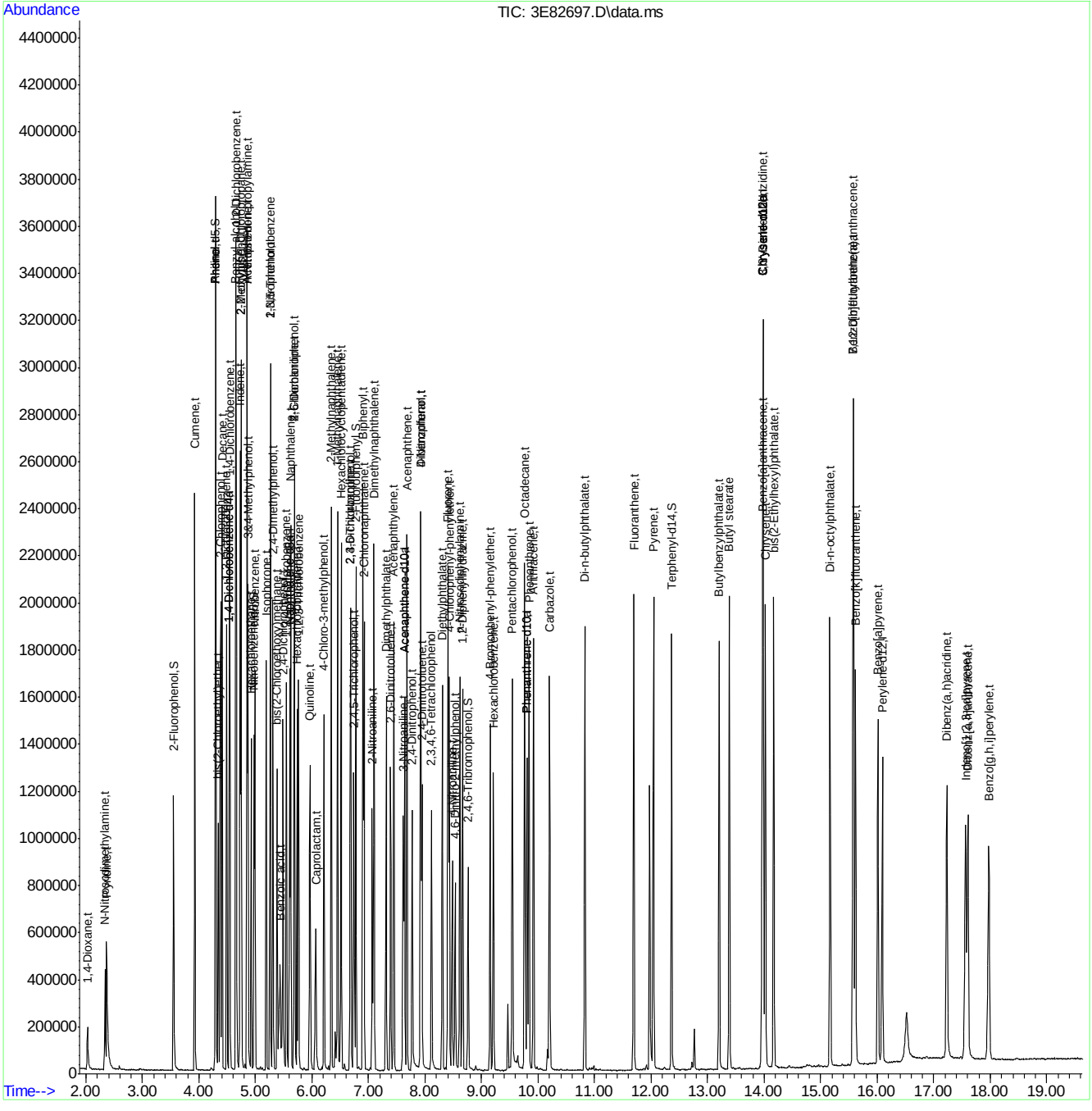
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	9.915	178	848568	49.89 ppm	100
79) Carbazole	10.204	167	778462	50.59 ppm	100
80) Di-n-butylphthalate	10.830	149	1054410	53.05 ppm	100
81) Fluoranthene	11.696	202	938229	50.96 ppm	100
82) Octadecane	9.760	57	369633	53.47 ppm	100
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

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



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

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 JC19473

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

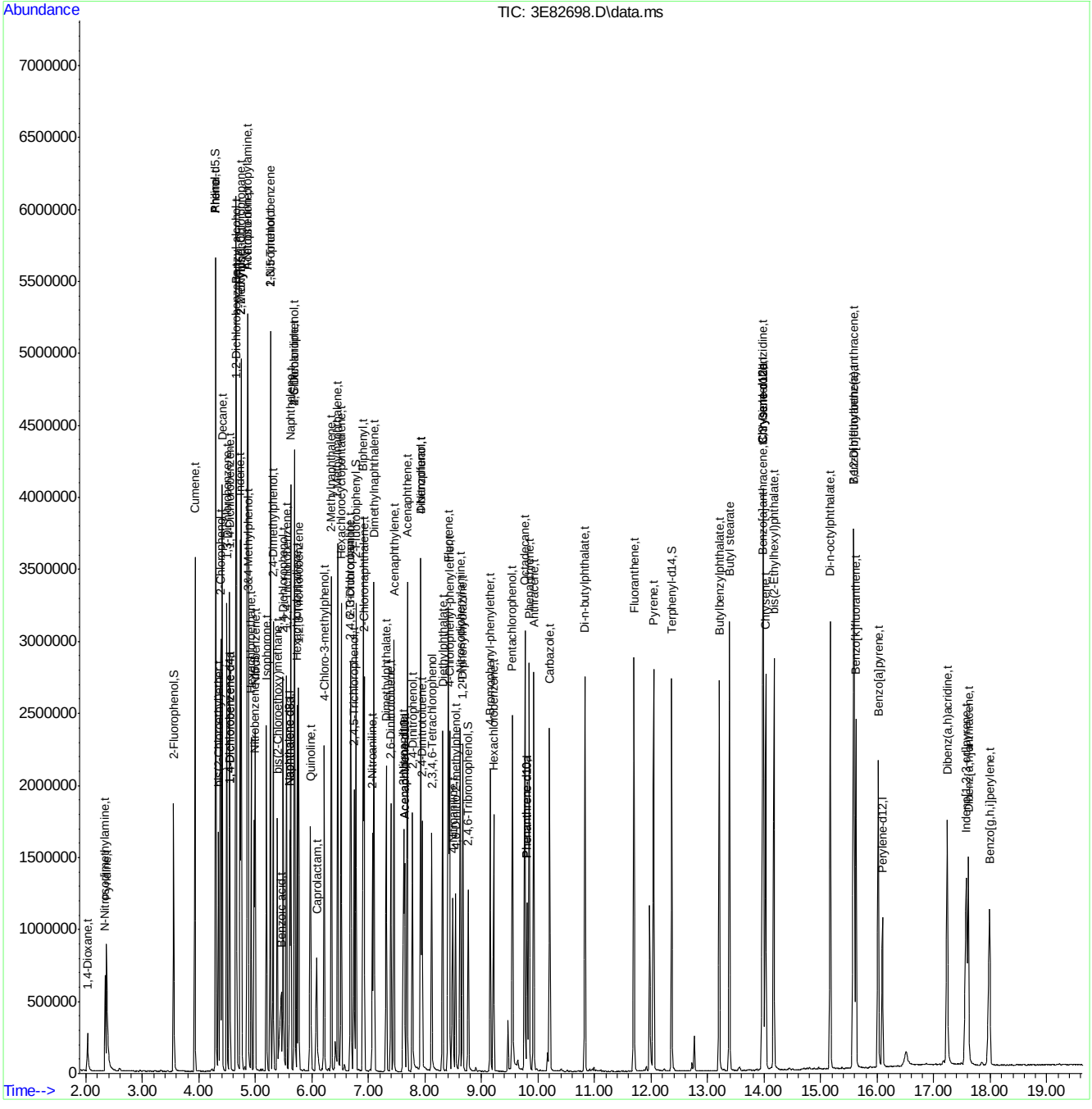
7

SGS ACCUTEST JC19473

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 JC19473

Manual Integration Approval Summary

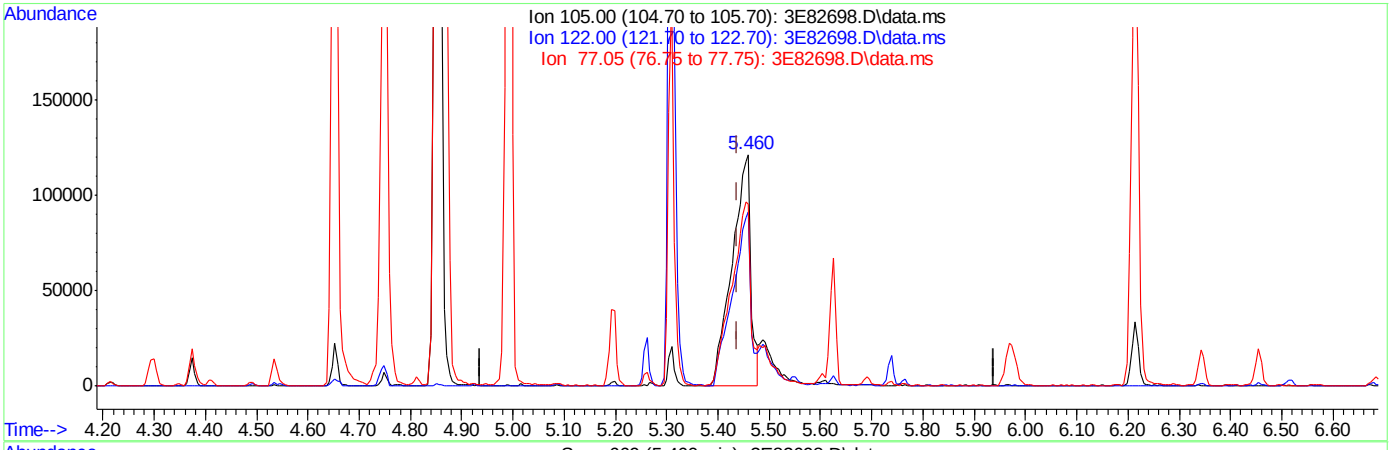
Sample Number:	E3E3623-IC3623	**Method:**	SW846 8270D
Lab FileID:	3E82698.D	**Analyst approved:**	04/28/16 10:43 Ashley Noble
Injection Time:	04/27/16 17:27	**Supervisor approved:**	04/28/16 16:14 Kristi Schollenberger

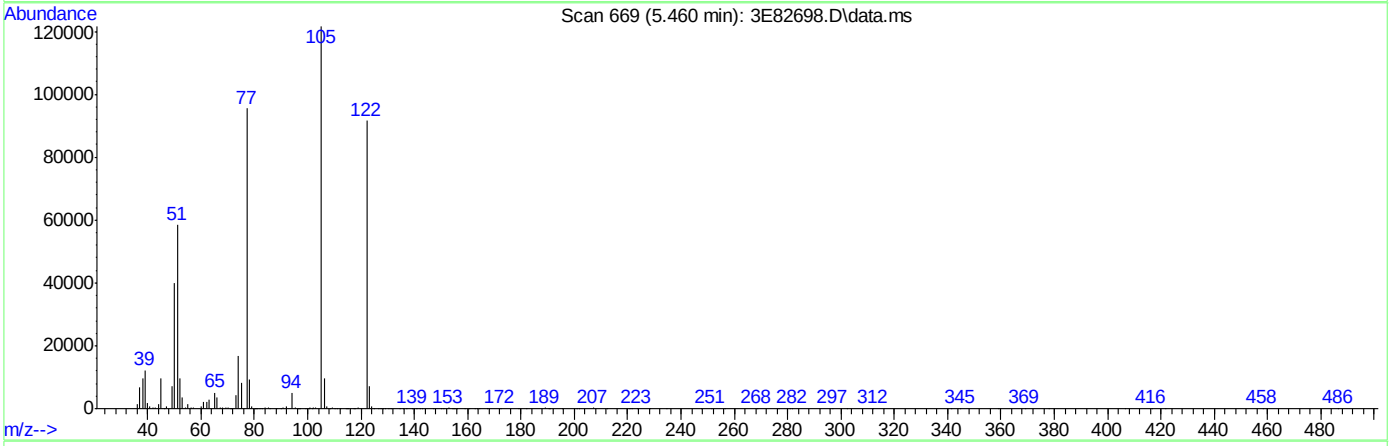
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.46	Split peak

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

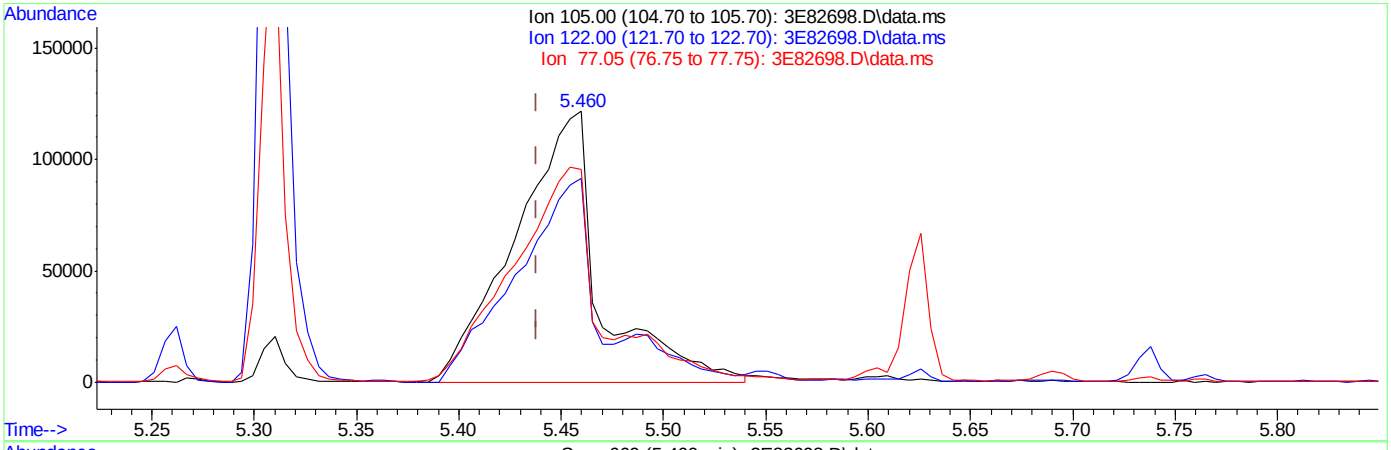
Ion	Exp%	Act%
105.00	100	100
122.00	74.00	74.72
77.05	79.10	77.32
0.00	0.00	0.00

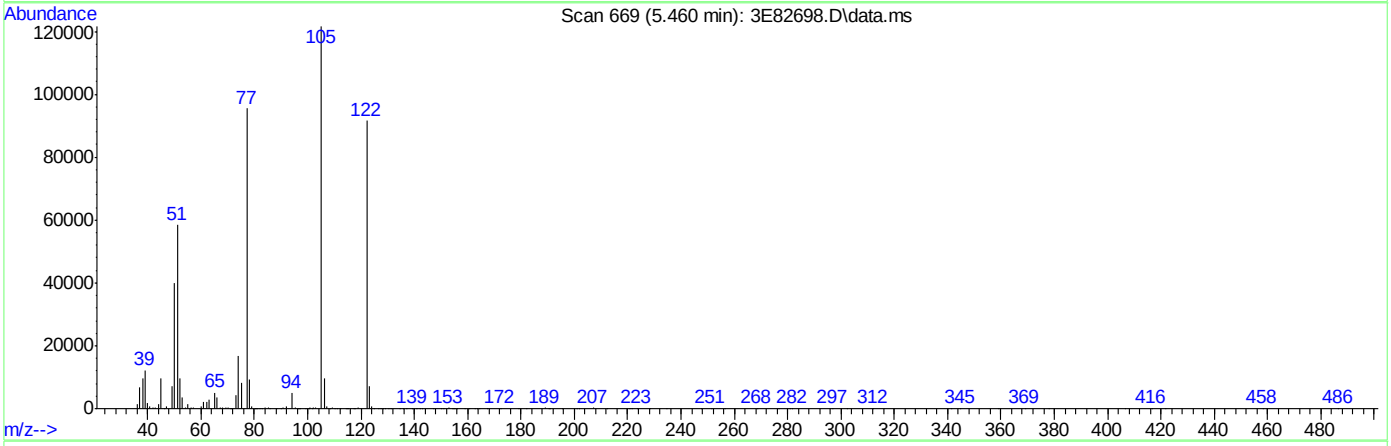
SGS ACCUTEST JC19473

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 JC19473

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 JC19473

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

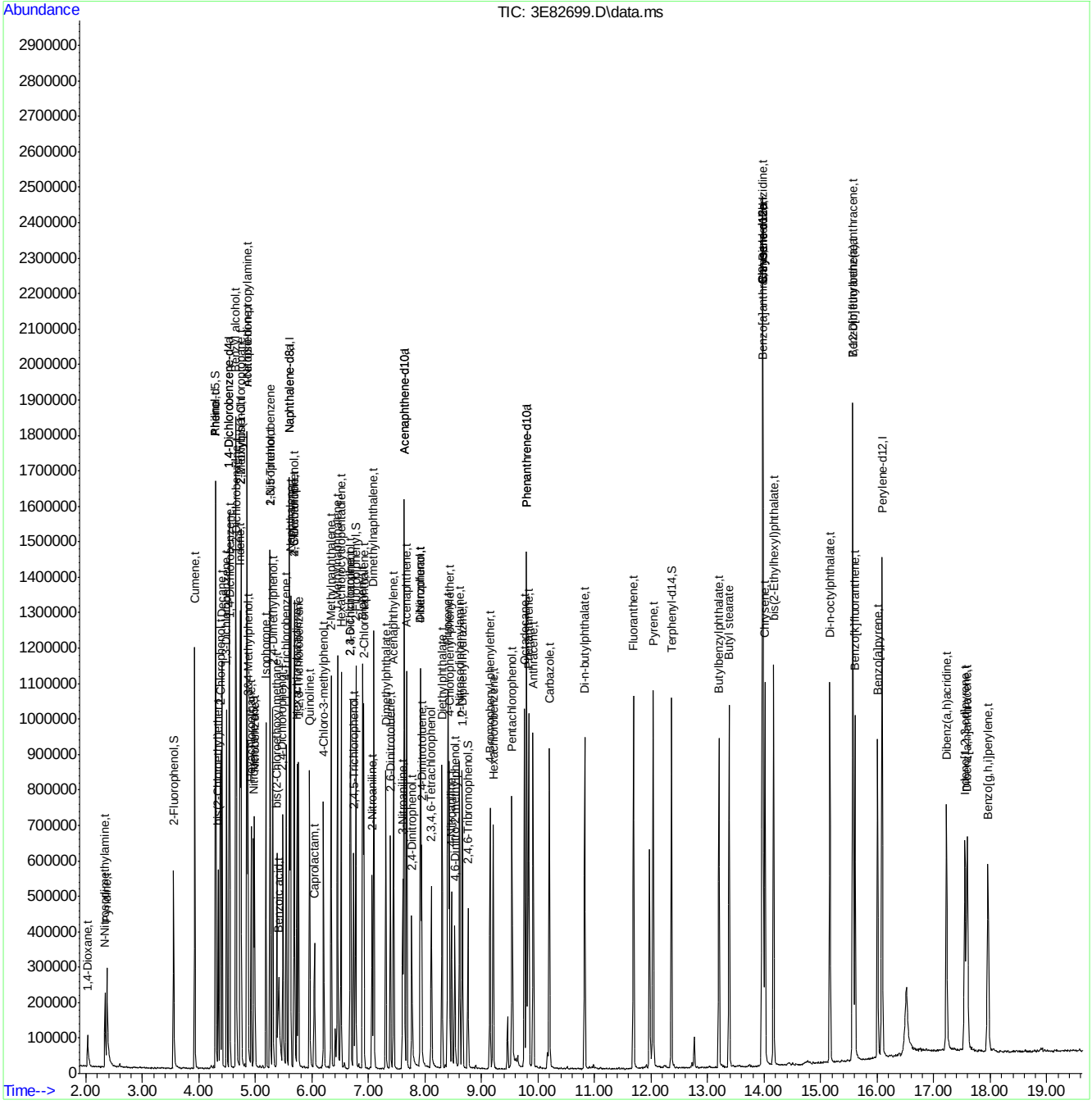
7

SGS ACCUTEST JC19473

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 JC19473

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

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 JC19473

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

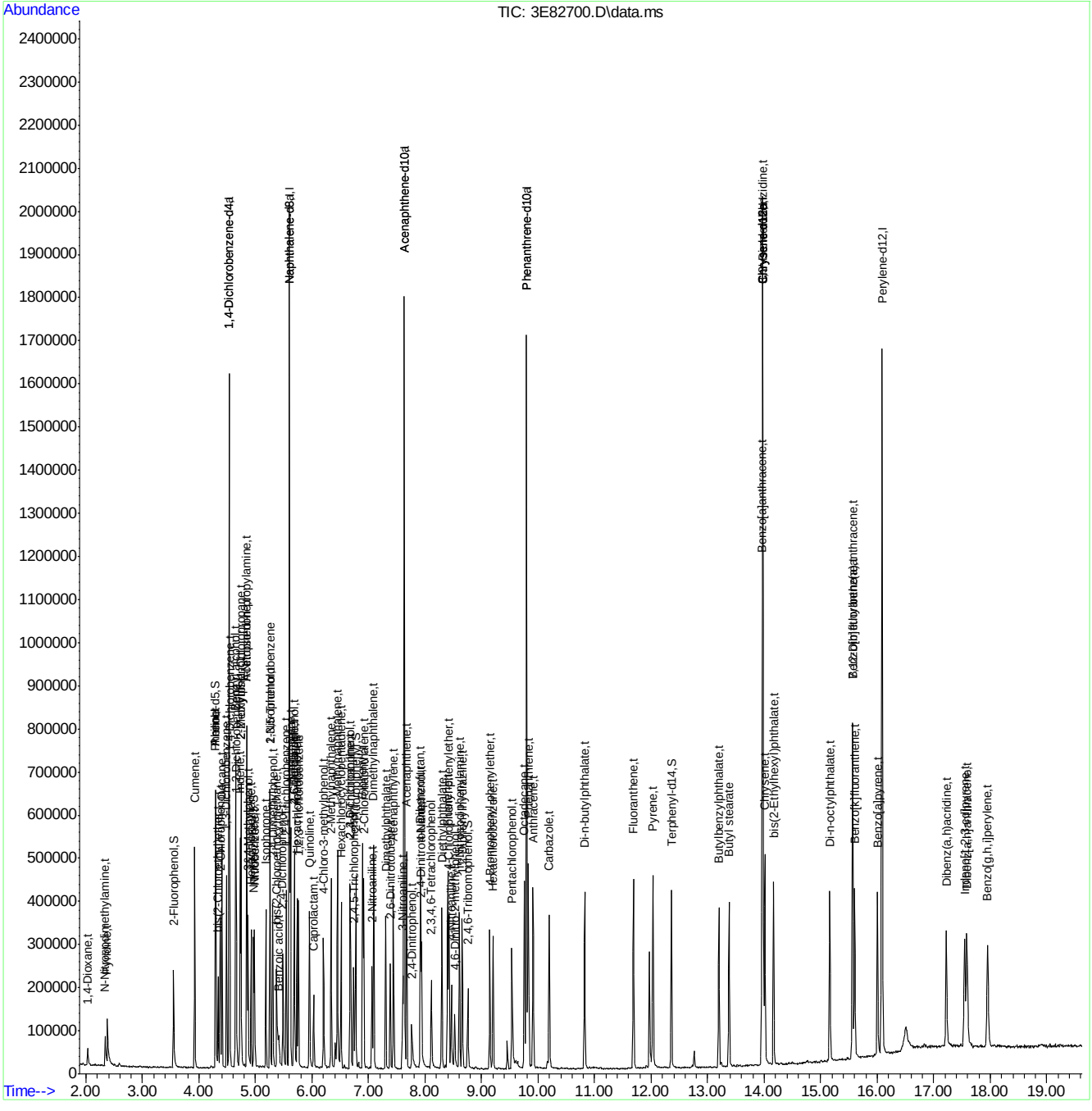
7

SGS ACCUTEST JC19473

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

Manual Integration Approval Summary

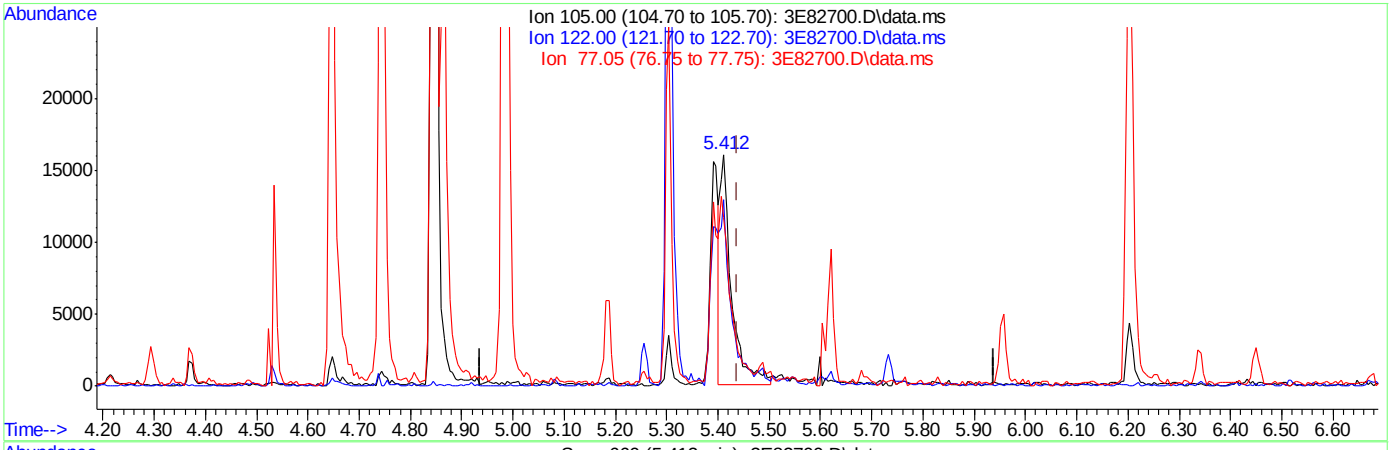
Sample Number:	E3E3623-IC3623	**Method:**	SW846 8270D
Lab FileID:	3E82700.D	**Analyst approved:**	04/28/16 10:43 Ashley Noble
Injection Time:	04/27/16 18:18	**Supervisor approved:**	04/28/16 16:14 Kristi Schollenberger

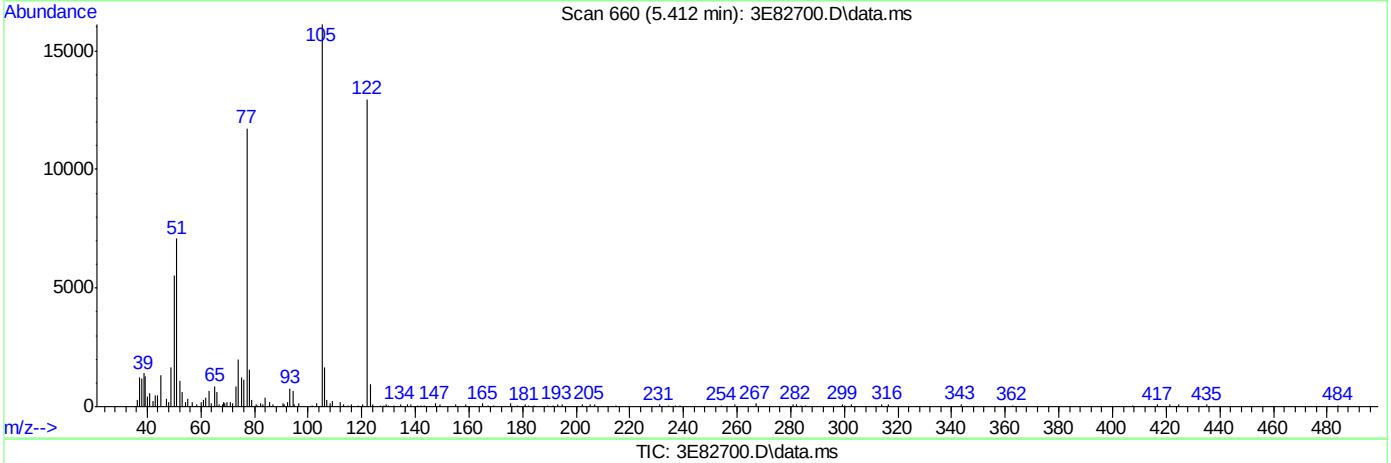
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.41	Split peak

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

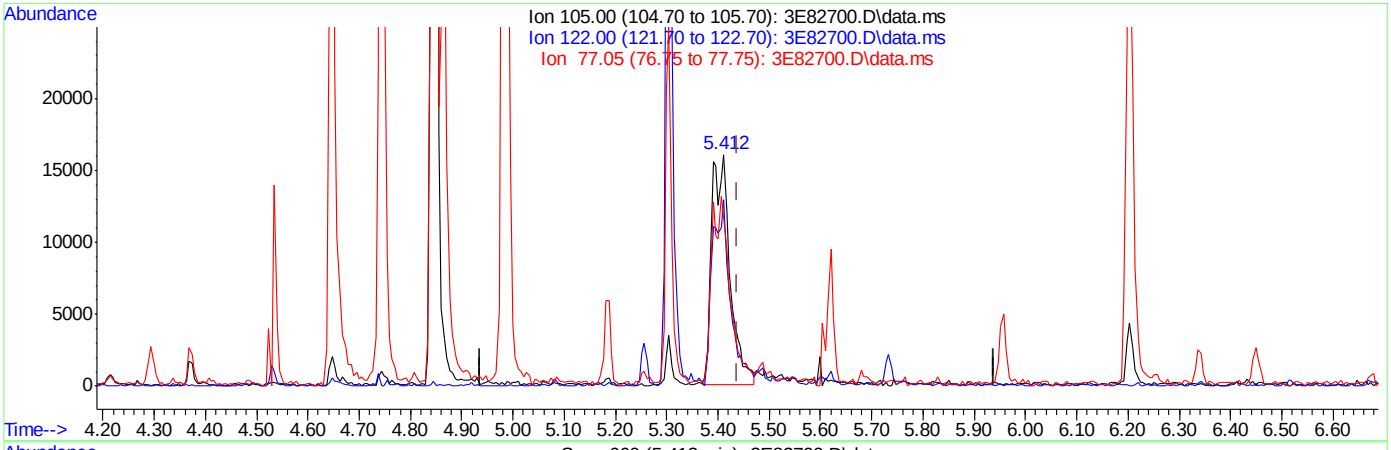
response 24058

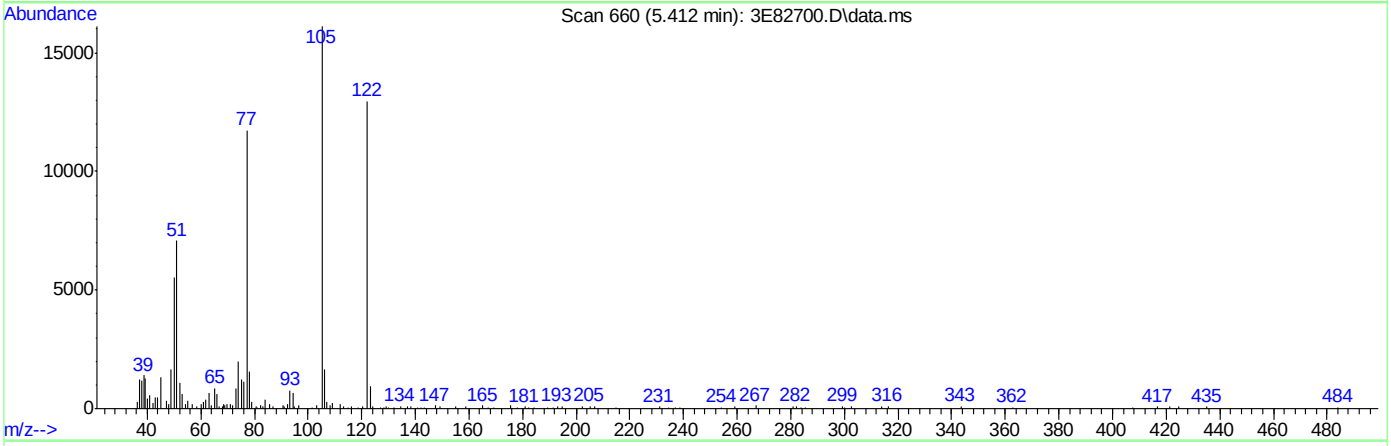
Ion	Exp%	Act%
105.00	100	100
122.00	74.00	78.66
77.05	79.10	64.40
0.00	0.00	0.00

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 JC19473

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 JC19473

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

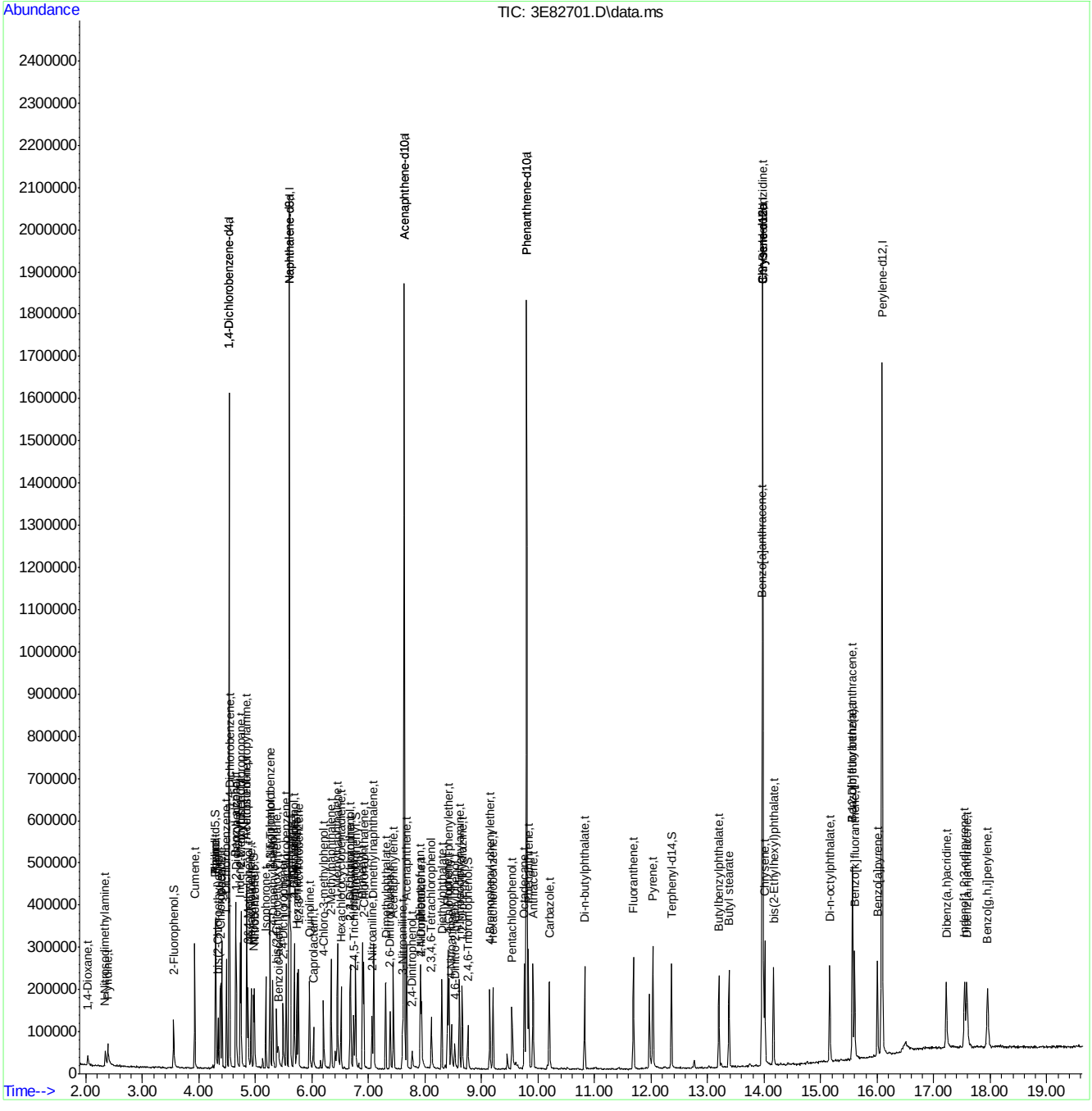
7

SGS ACCUTEST JC19473

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



M3E3623.M Thu Apr 28 09:26:37 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 : 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

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 JC19473

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

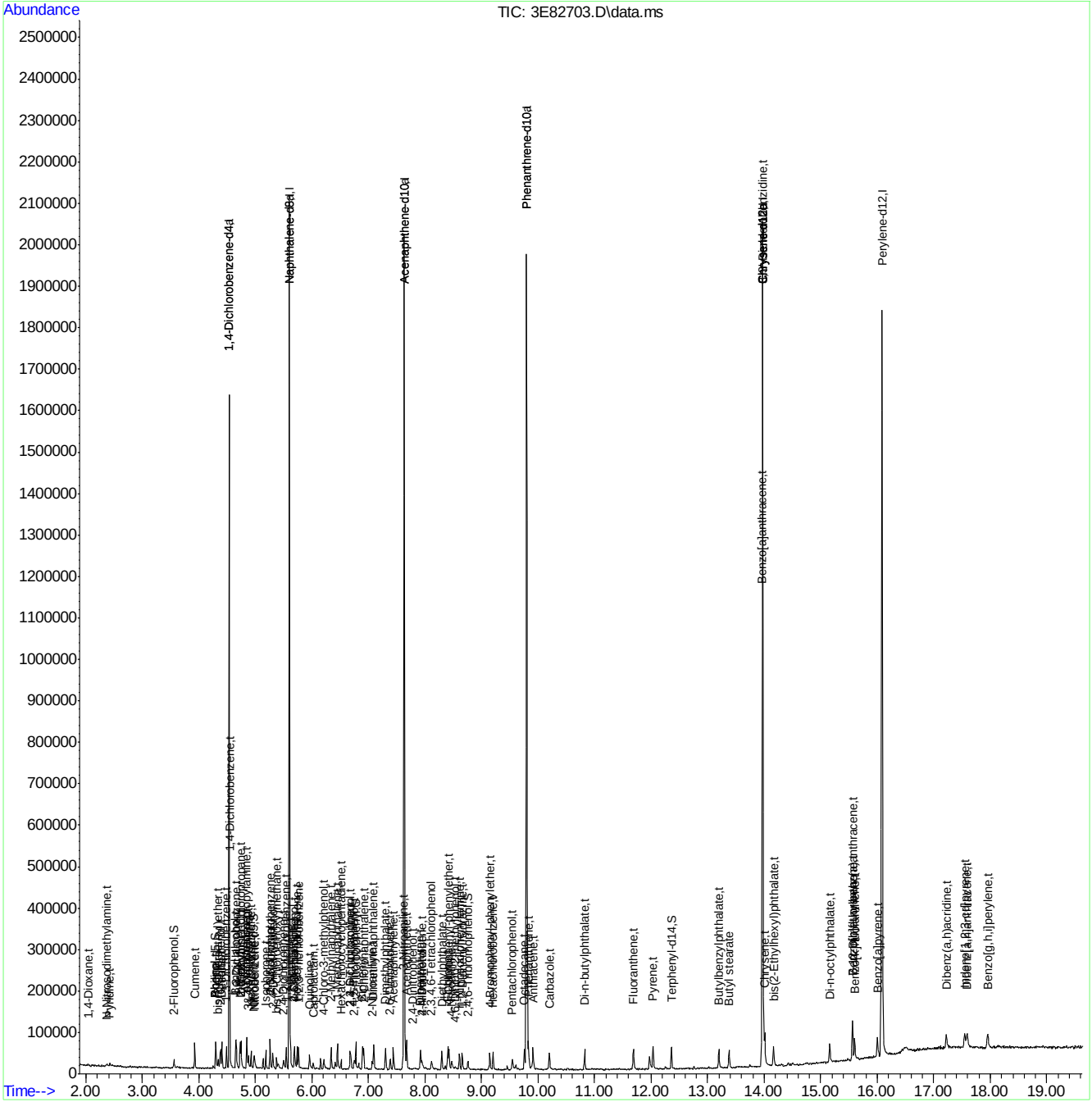
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



M3E3623.M Thu Apr 28 16:21:17 2016 MS3E Page: 4

Manual Integration Approval Summary

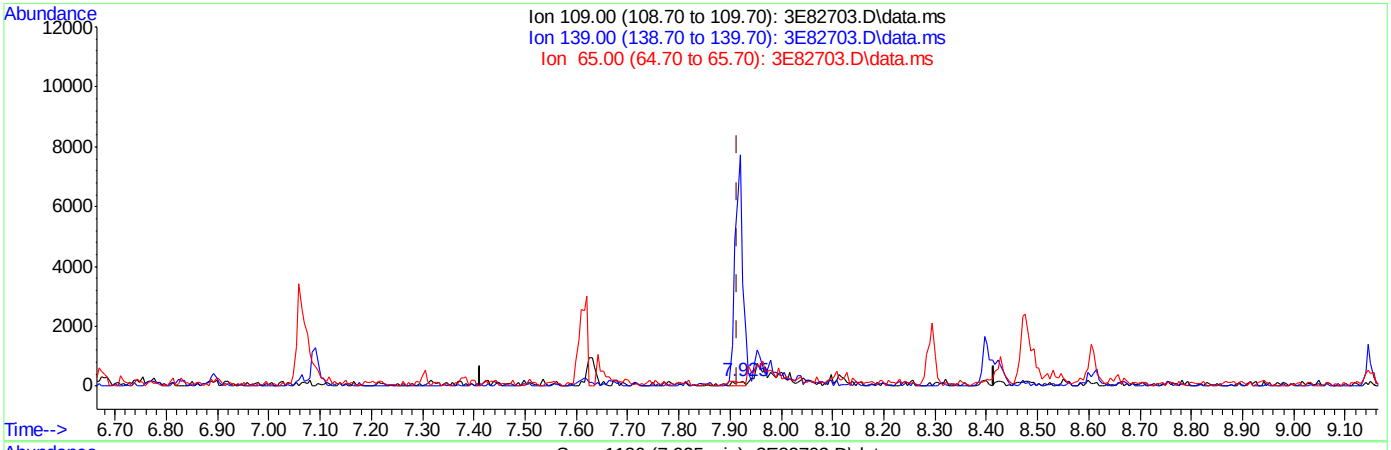
Sample Number:	E3E3623-IC3623	**Method:**	SW846 8270D
Lab FileID:	3E82703.D	**Analyst approved:**	04/28/16 10:43 Ashley Noble
Injection Time:	04/27/16 19:10	**Supervisor approved:**	04/28/16 16:14 Kristi Schollenberger

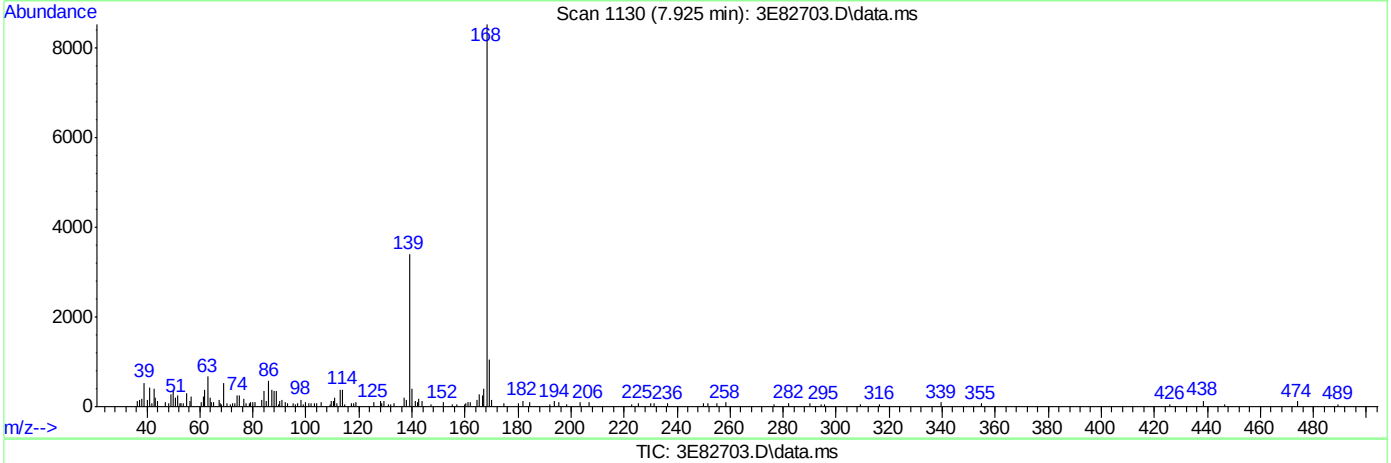
Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Nitrophenol	100-02-7		7.95	Poor instrument integration

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

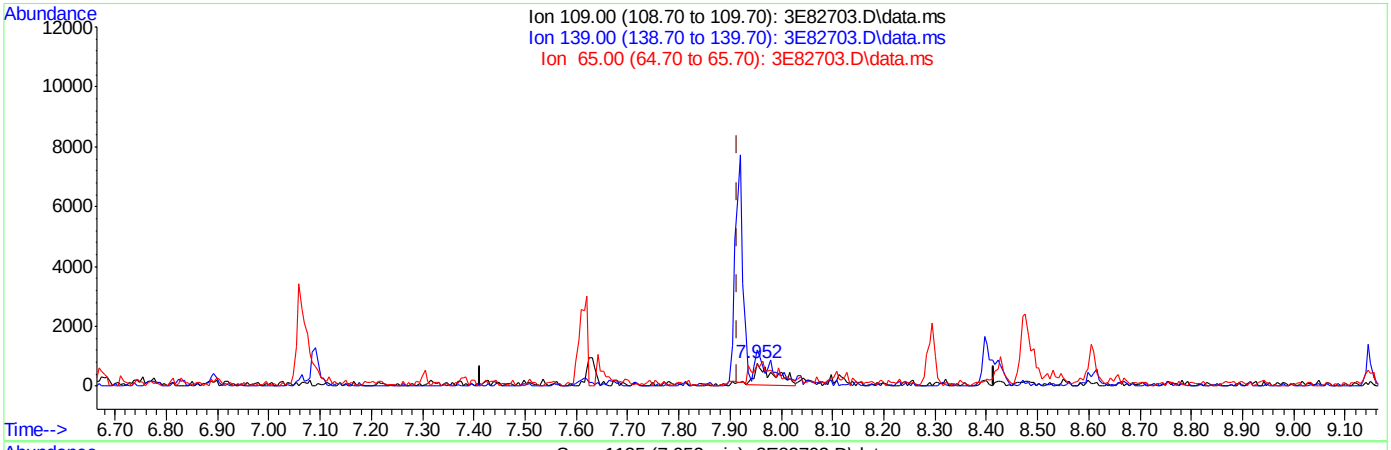
Ion	Exp%	Act%
109.00	100	100
139.00	369.70	1748.75#
65.00	133.80	0.00#
0.00	0.00	0.00

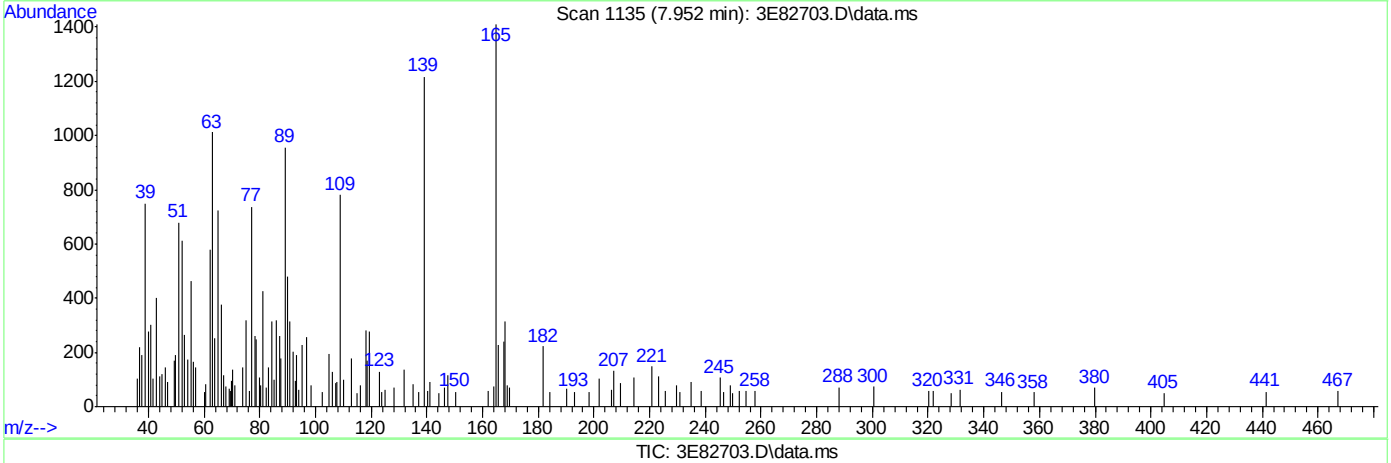
SGS ACCUTEST JC19473

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 JC19473

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 JC19473

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

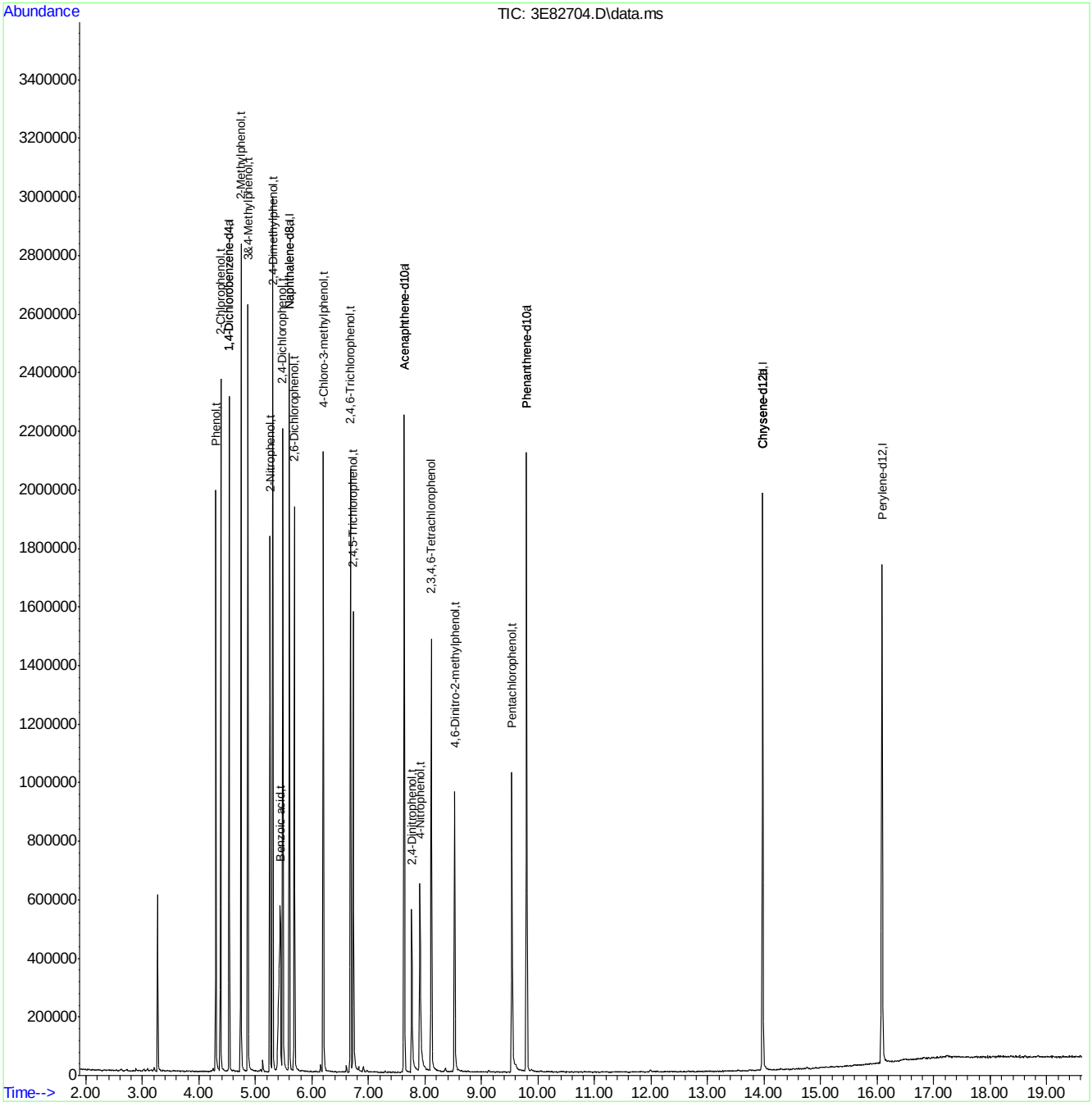
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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



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

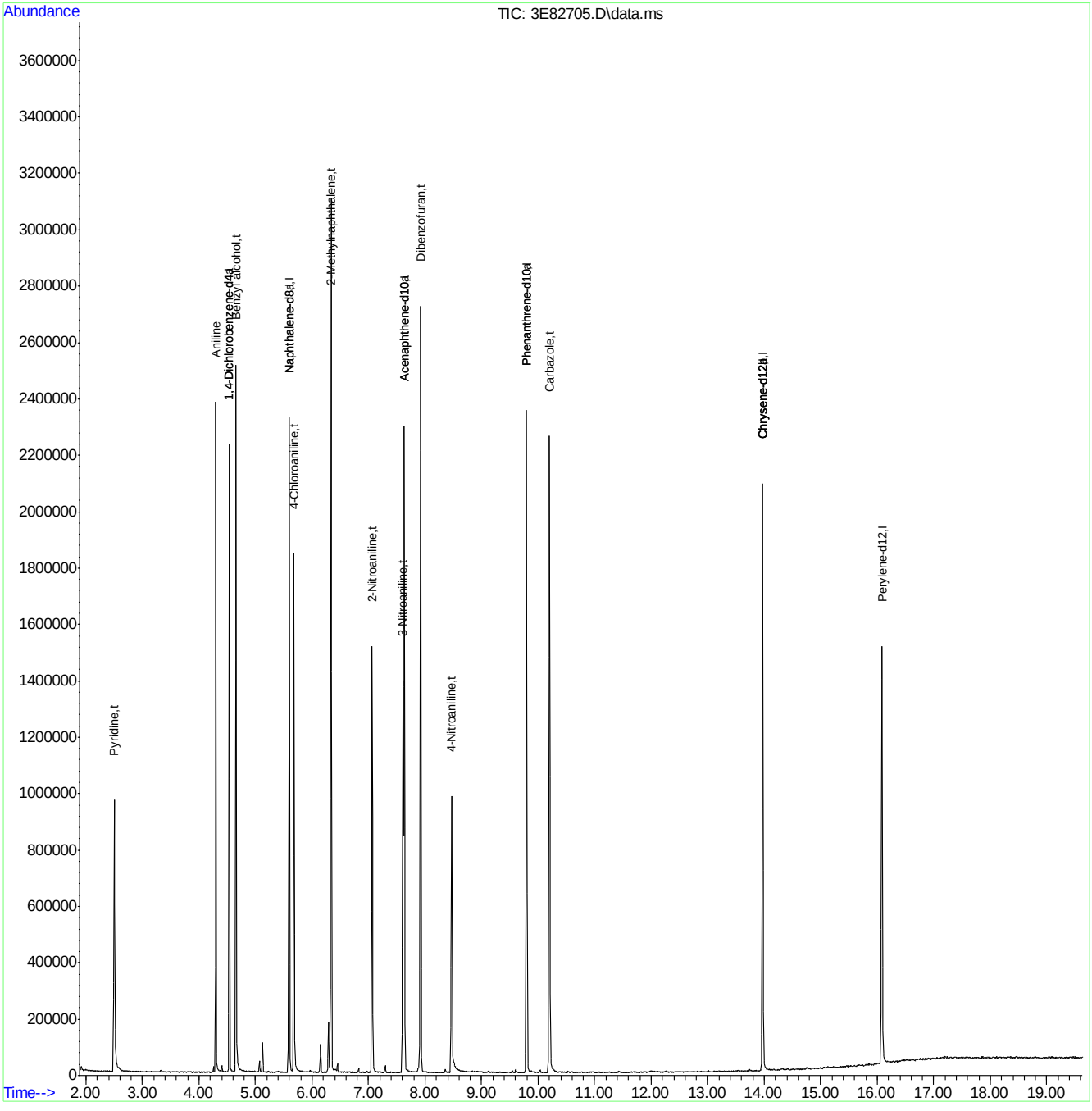
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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%	

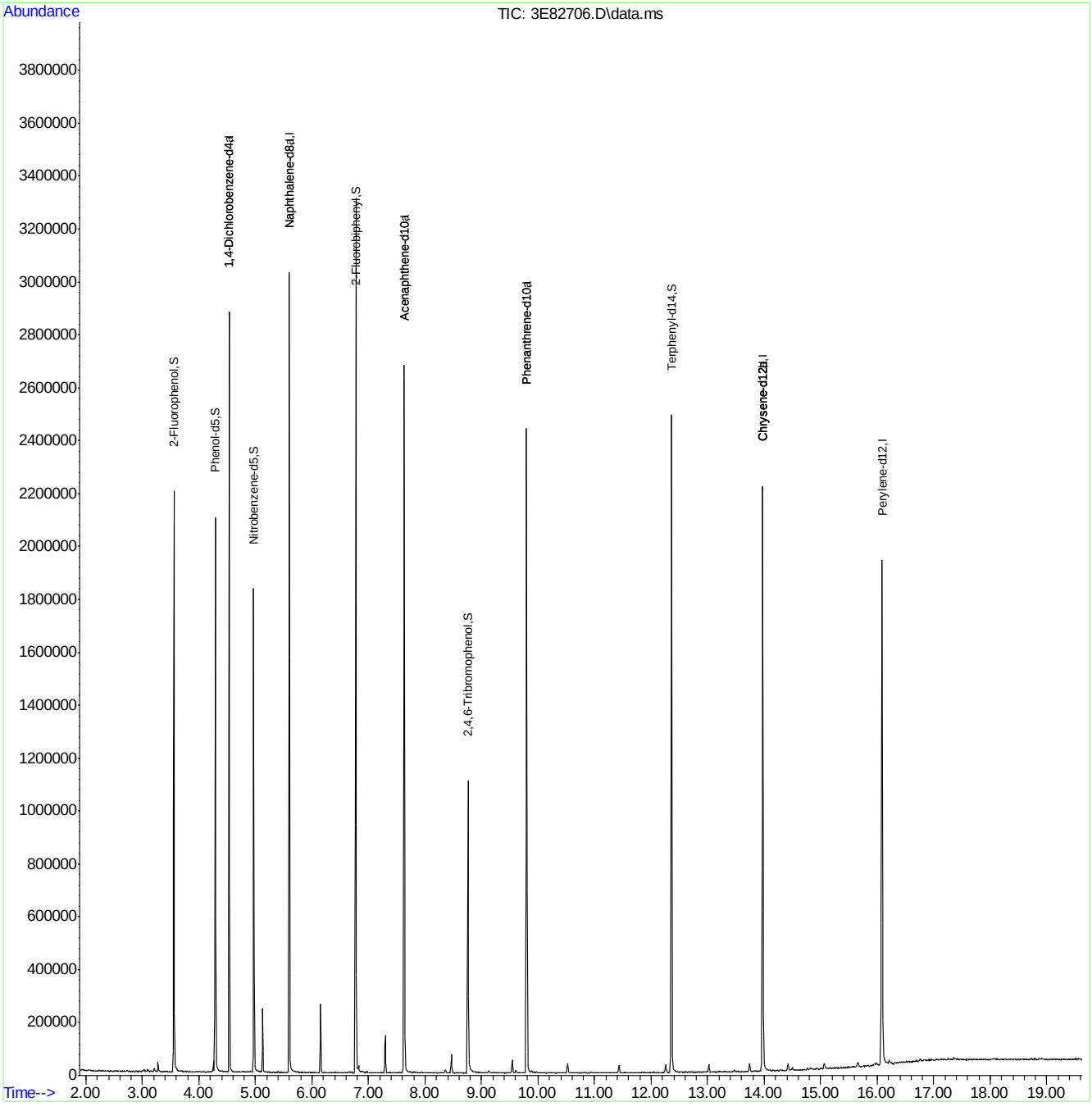
Target Compounds	Qvalue

(#) = 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 JC19473

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

SGS ACCUTEST JC19473

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

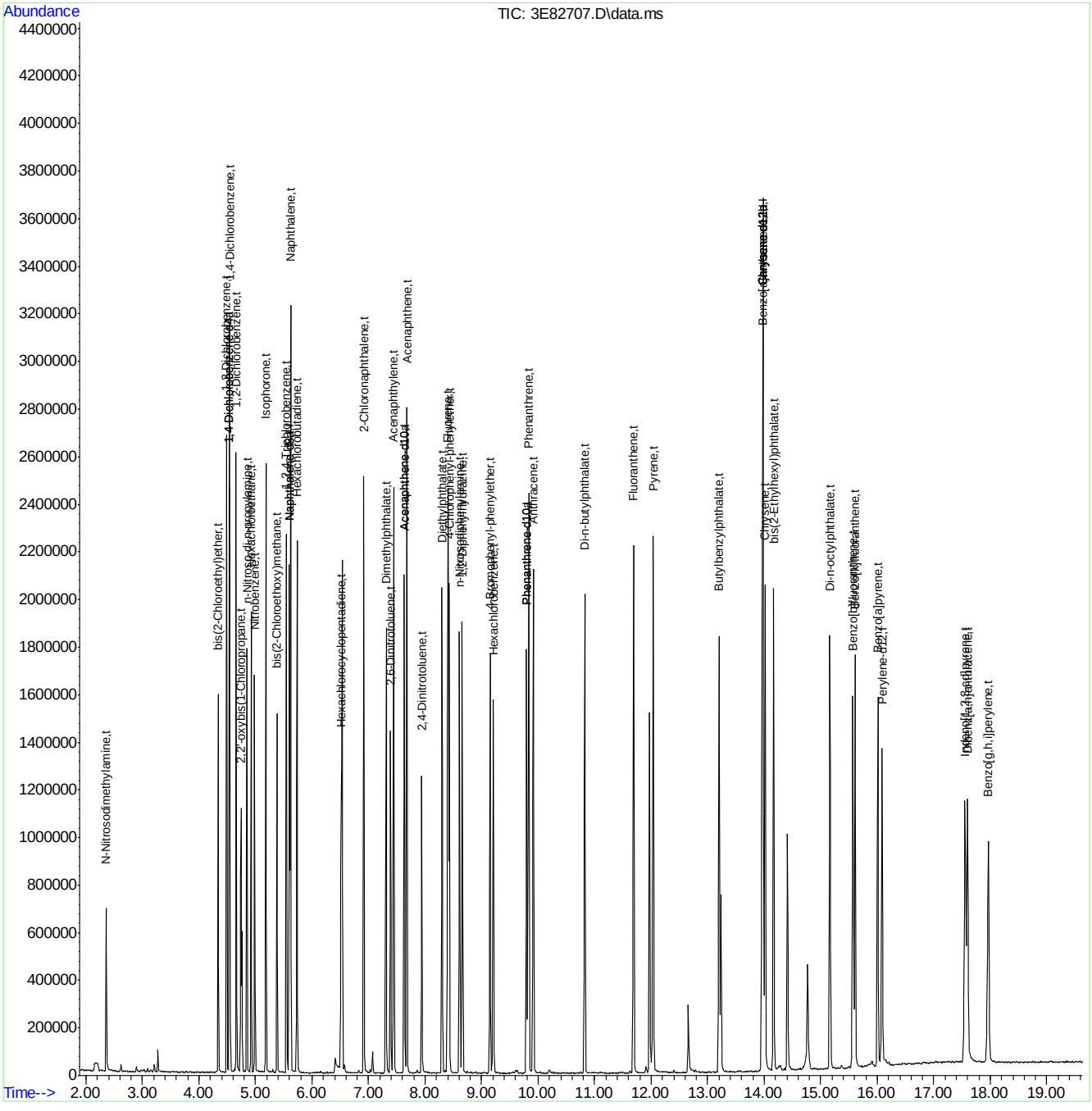
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
57) 2,6-Dinitrotoluene	7.390	165	168140	47.11 ppm	92
59) Acenaphthene	7.679	153	704636	46.72 ppm	96
63) 2,4-Dinitrotoluene	7.941	165	209749	42.96 ppm	72
65) Diethylphthalate	8.300	149	753475	45.00 ppm	99
66) Fluorene	8.407	166	742158	44.65 ppm	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

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

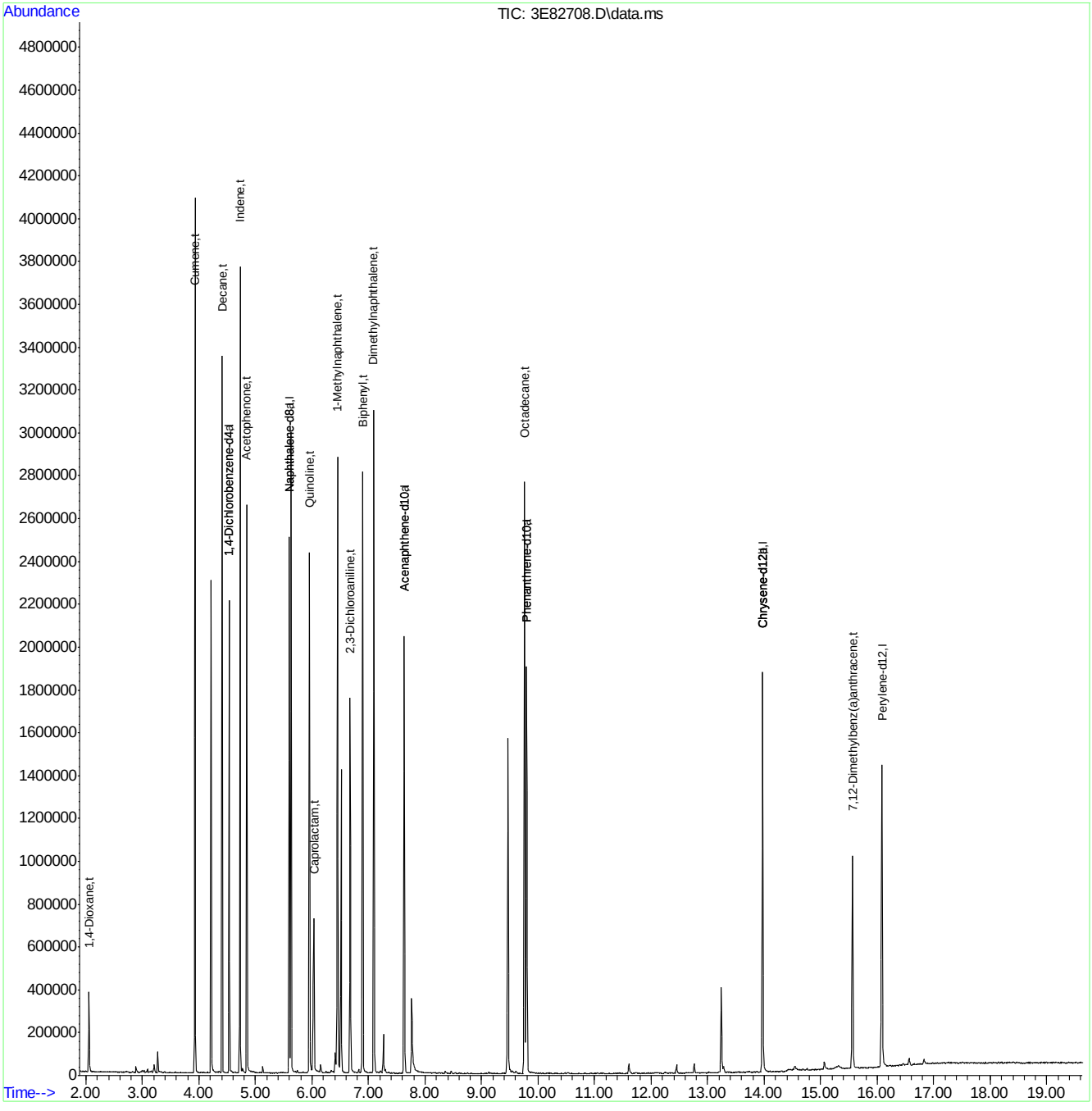
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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 JC19473

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

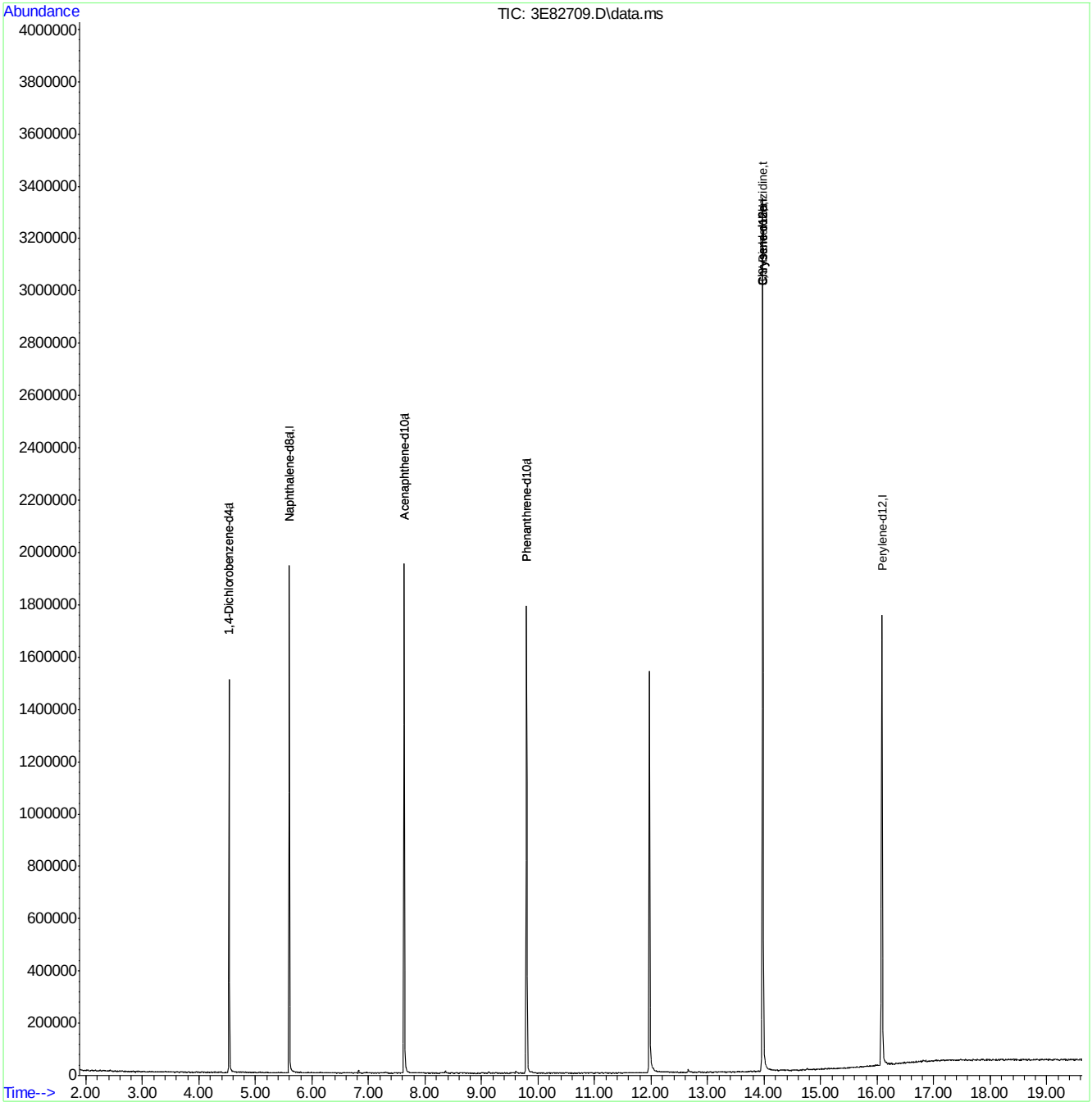
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

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 JC19473

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

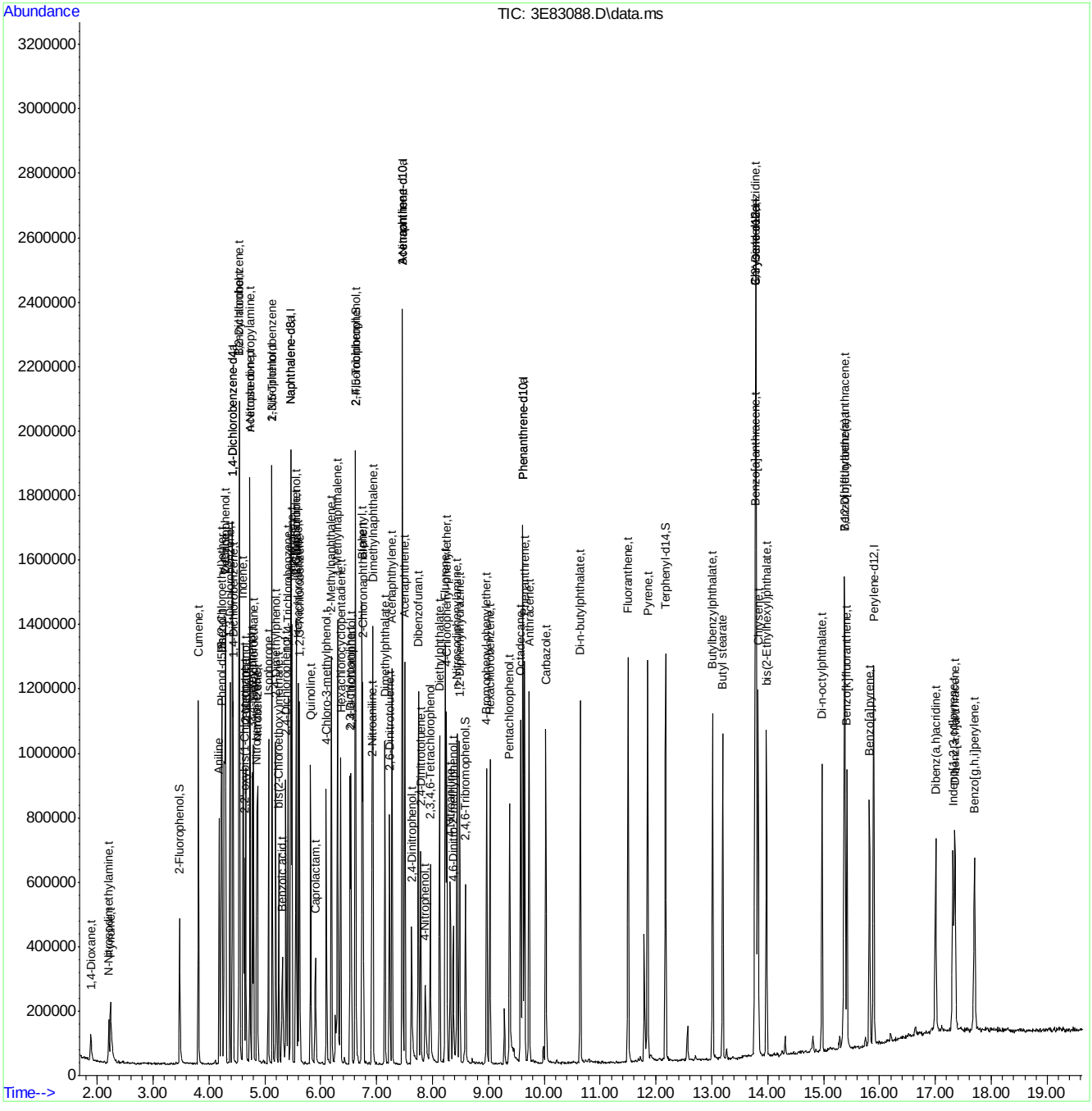
7.6.27

7

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



M3E3623.M Wed May 11 12:22:15 2016 MS3E Page: 4

SGS ACCUTEST JC19473

Manual Integration Approval Summary

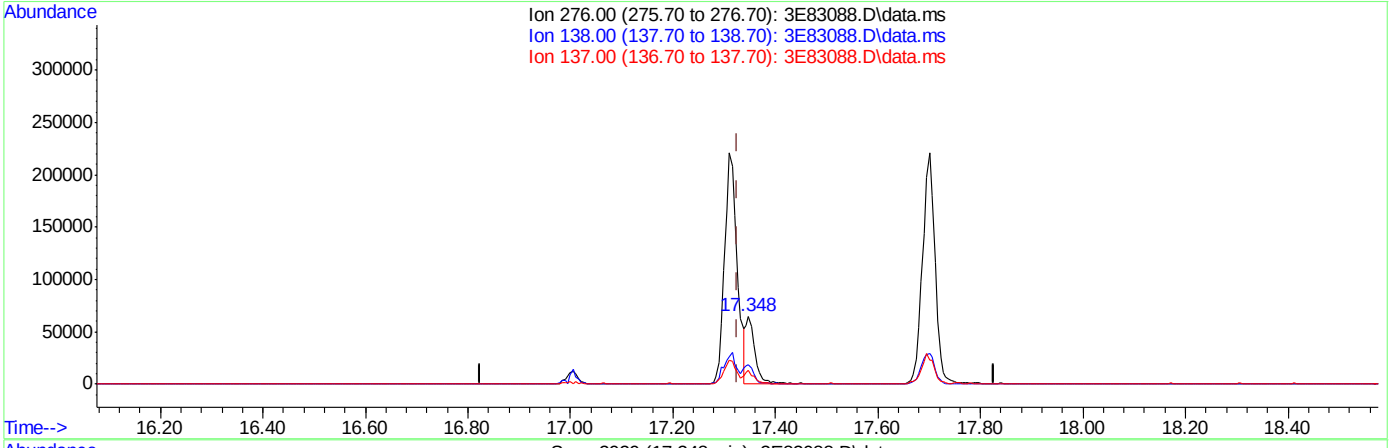
Sample Number:	E3E3643-CC3623	**Method:**	SW846 8270D
Lab FileID:	3E83088.D	**Analyst approved:**	05/11/16 12:38 Ashley Noble
Injection Time:	05/11/16 09:23	**Supervisor approved:**	05/15/16 16:04 Nina Pandya

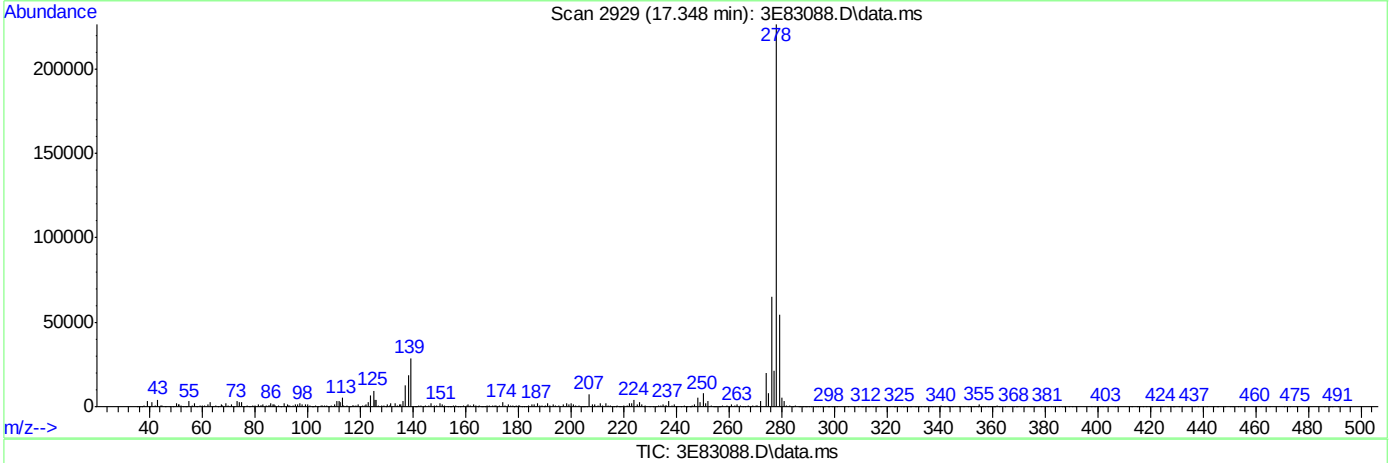
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.31	Split peak

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

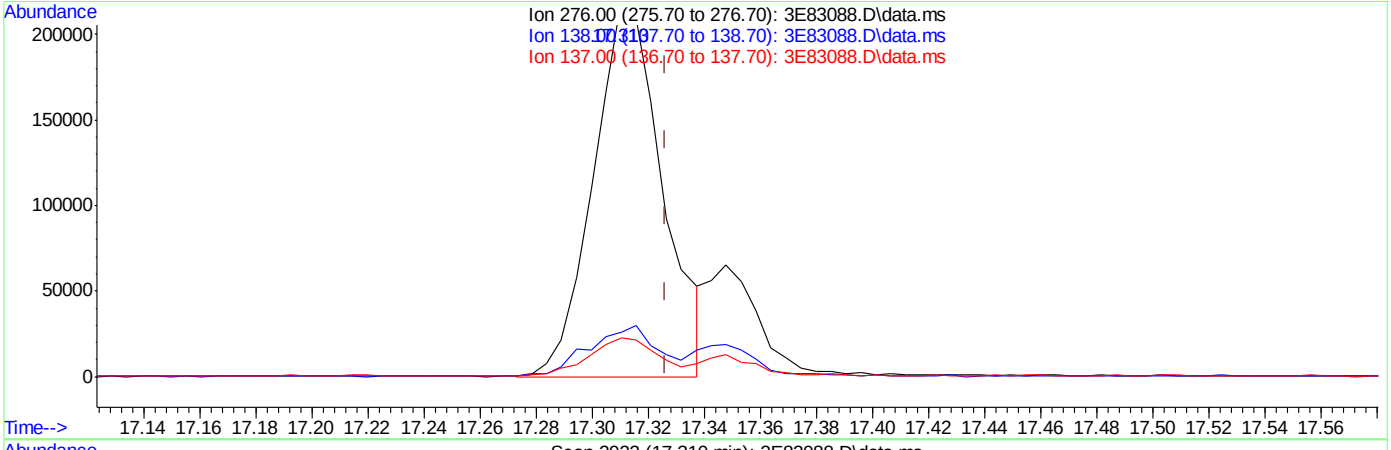
response 83172

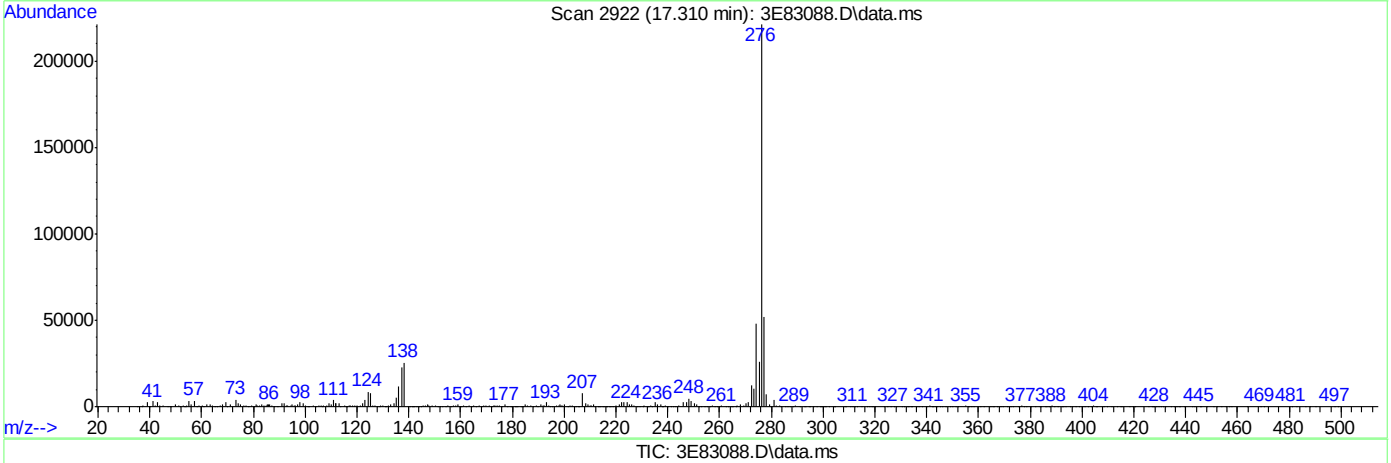
Ion	Exp%	Act%
276.00	100	100
138.00	14.20	28.10
137.00	9.50	22.27
0.00	0.00	0.00

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

SGS ACCUTEST JC19473

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

7.6.28

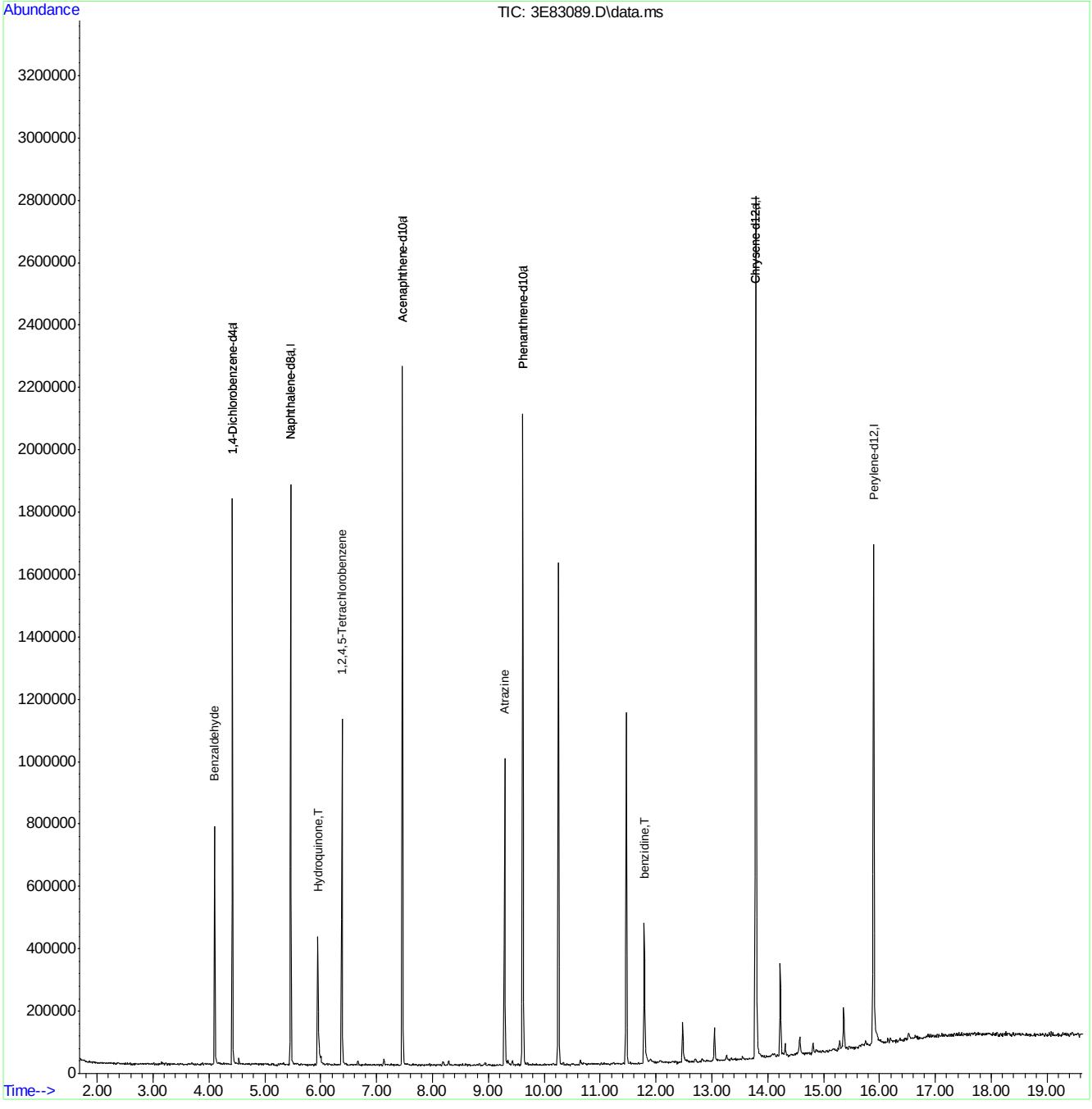
7

SGS ACCUTEST JC19473

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 JC19473

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 JC19473

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

7.6.29

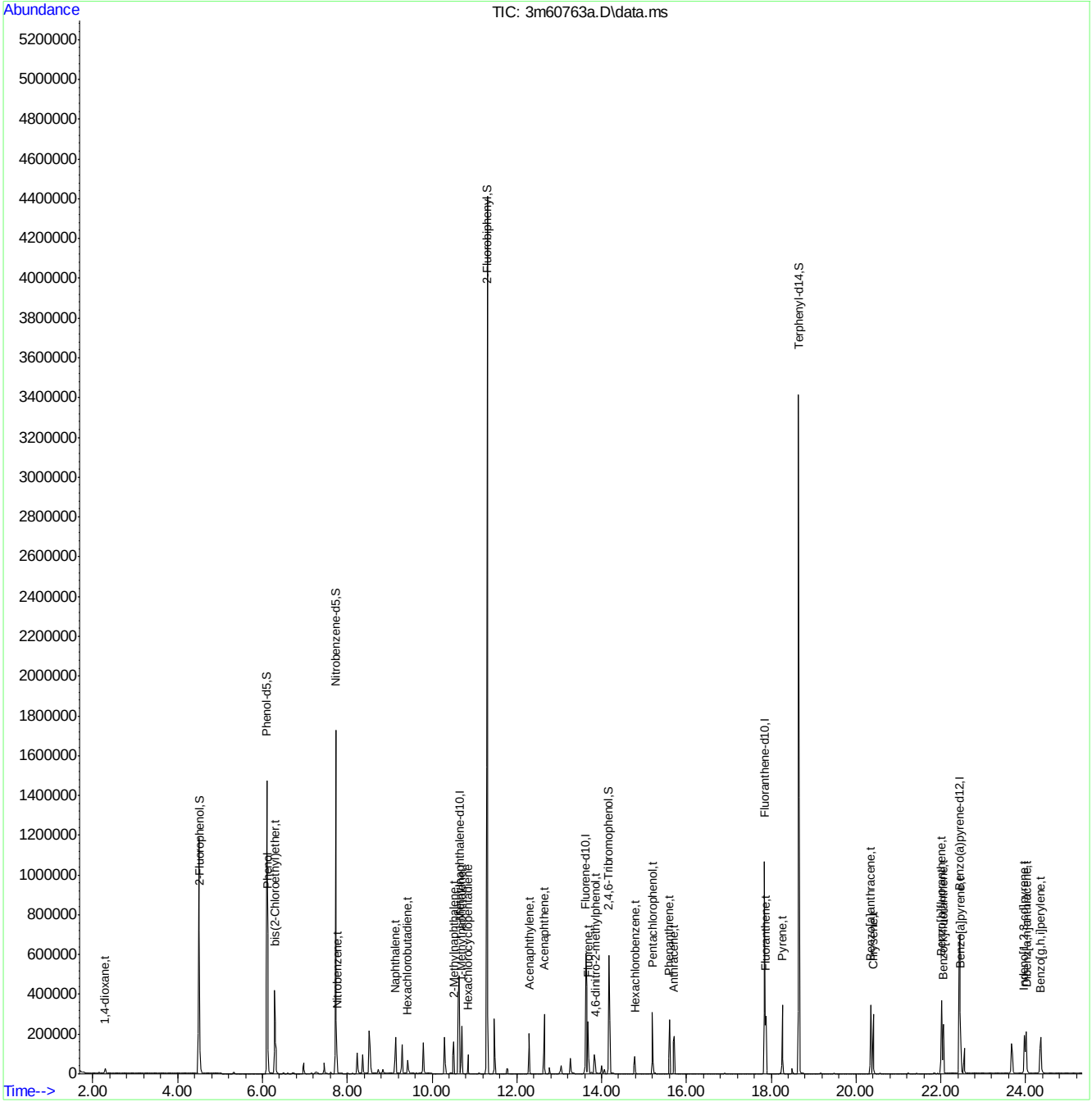
7

SGS ACCUTEST JC19473

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



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 JC19473

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

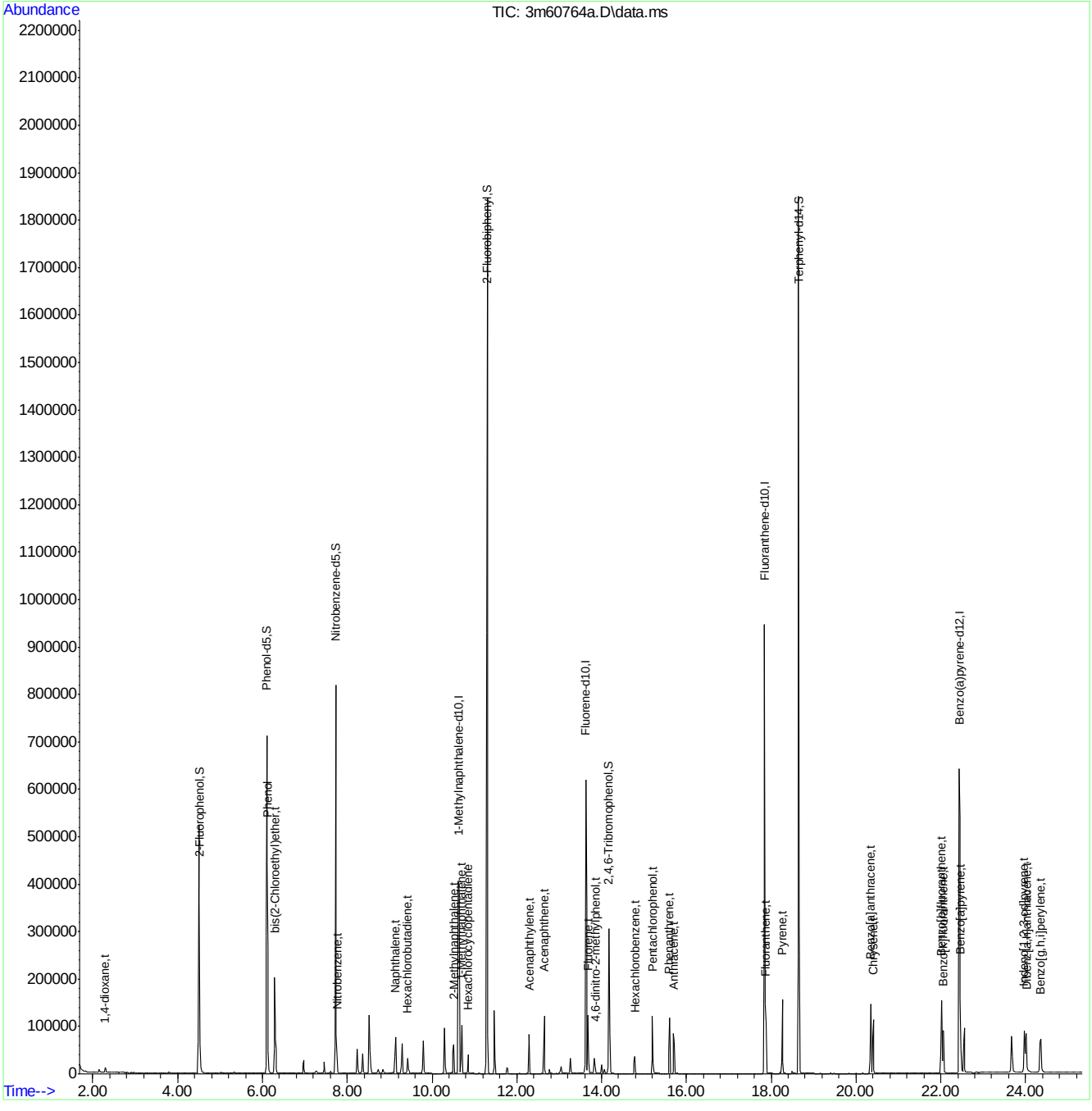
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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 JC19473

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 JC19473

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

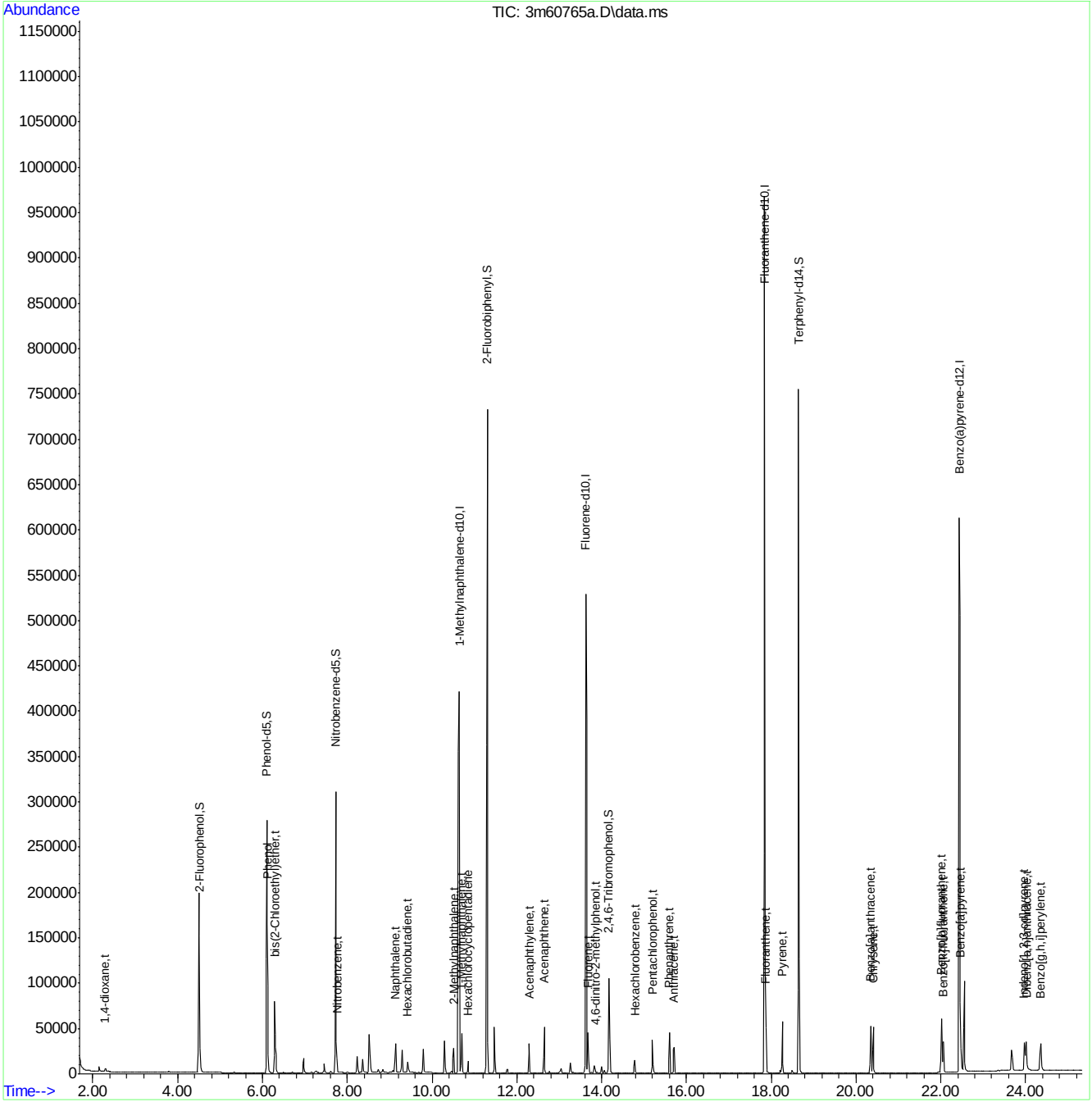
7.6.31

7

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



SGS ACCUTEST JC19473

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 JC19473

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

7.6.32

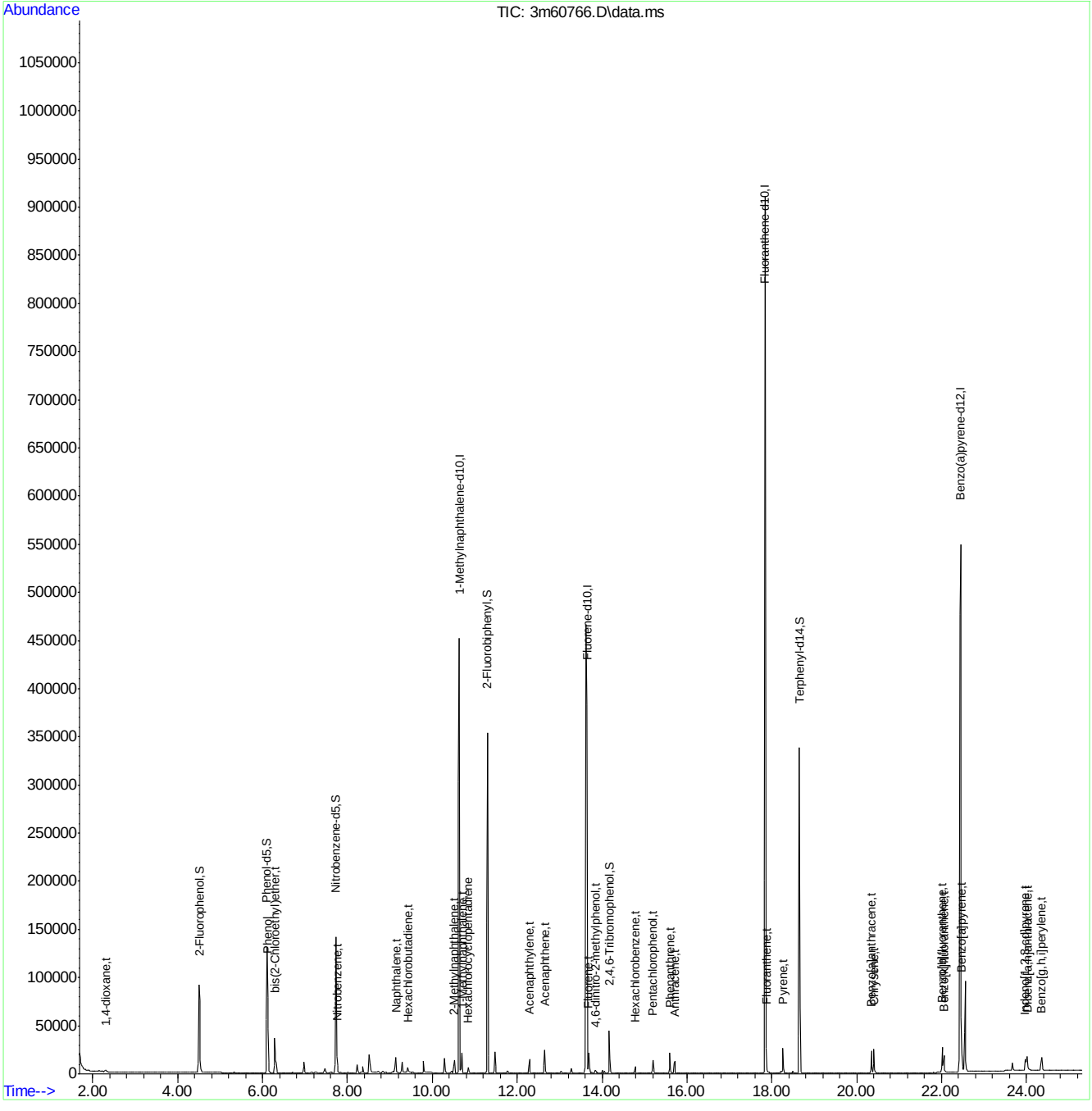
7

SGS ACCUTEST JC19473

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



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

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

7.6.33

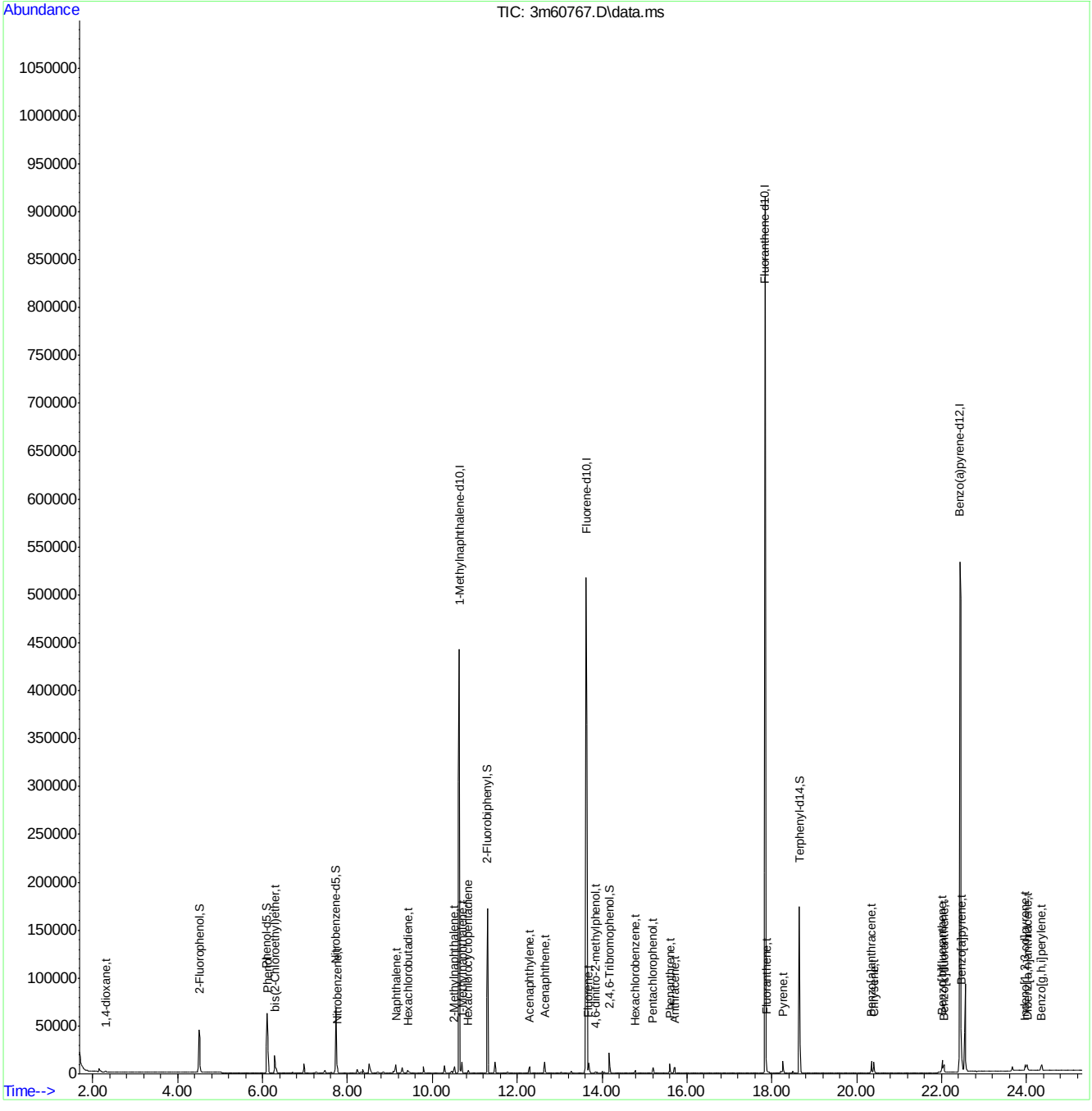
7

SGS ACCUTEST JC19473

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



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

7.6.34

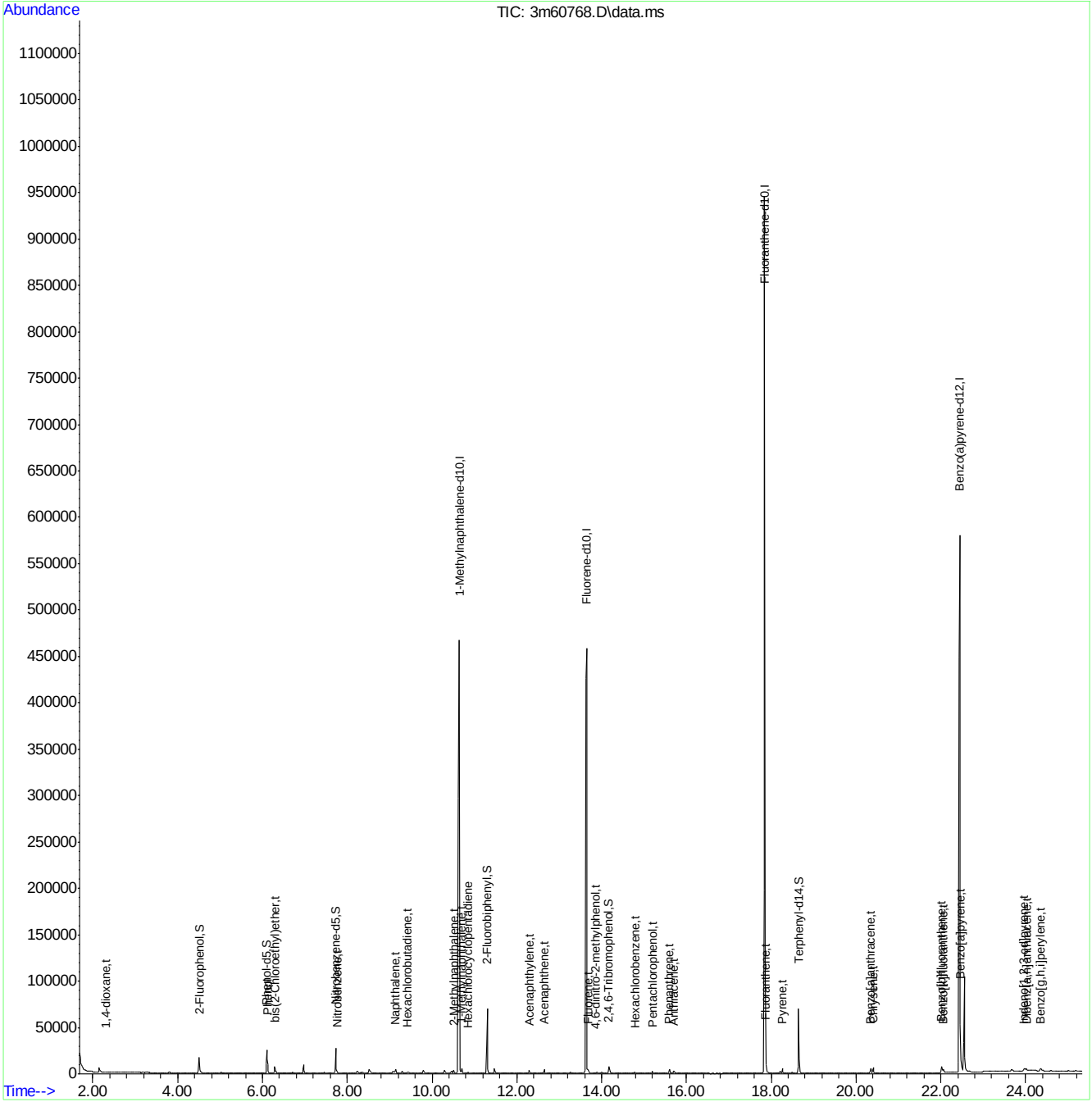
7

SGS ACCUTEST JC19473

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 JC19473

Manual Integration Approval Summary

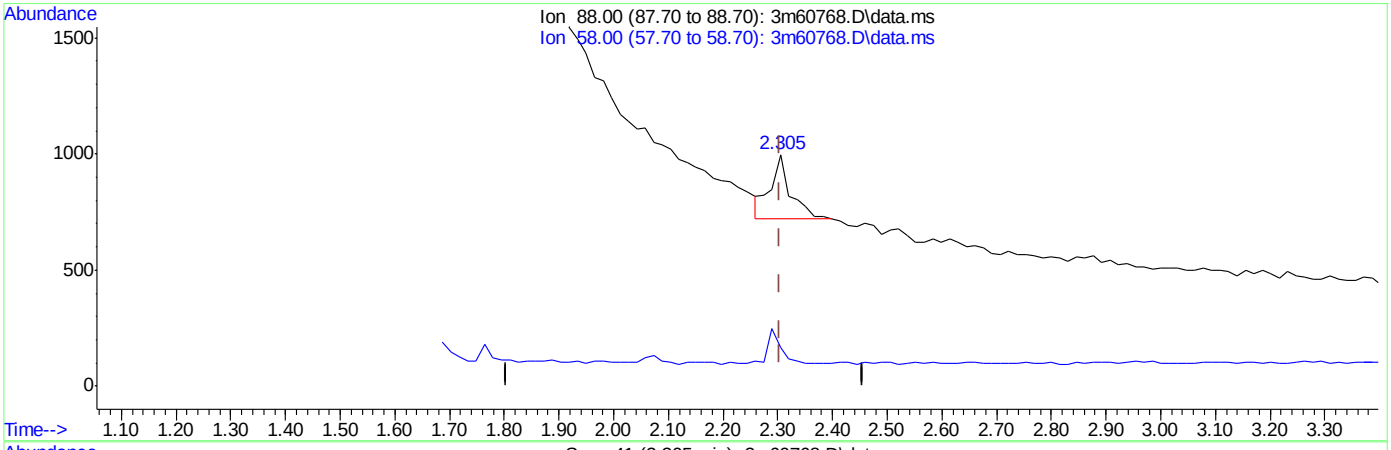
Sample Number:	E3M2855-IC2855	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M60768.D	**Analyst approved:**	04/22/16 09:15 Linsey Kirschmann
Injection Time:	04/21/16 17:17	**Supervisor approved:**	04/22/16 12:27 Nina Pandya

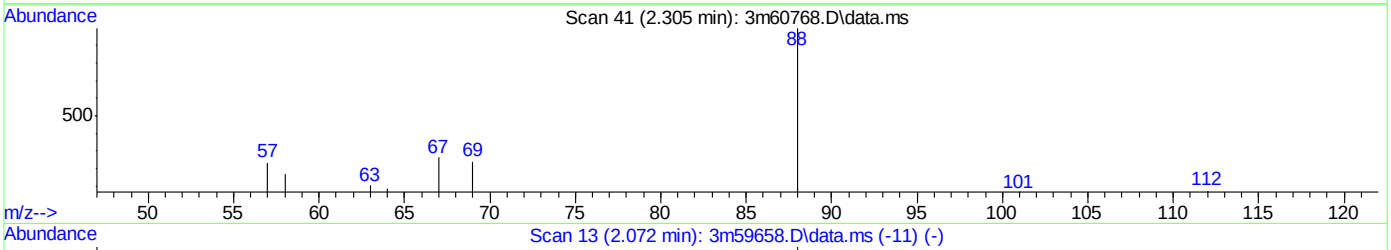
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.30	Baseline ripple
Benzo(a)pyrene	50-32-8		22.46	Baseline ripple

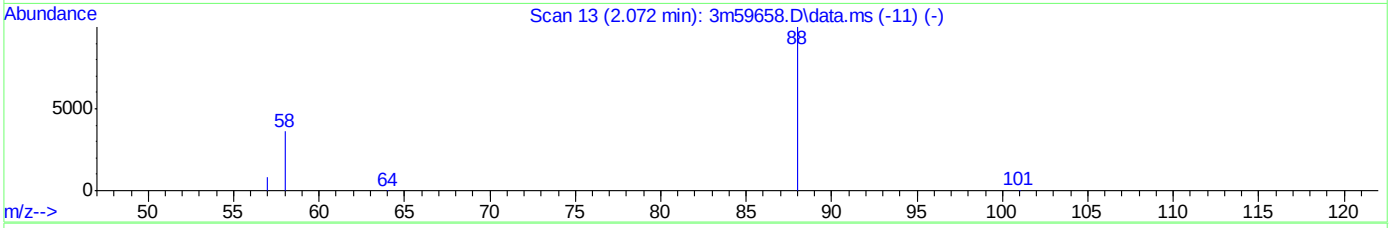
Quantitation Report (Qedit)

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

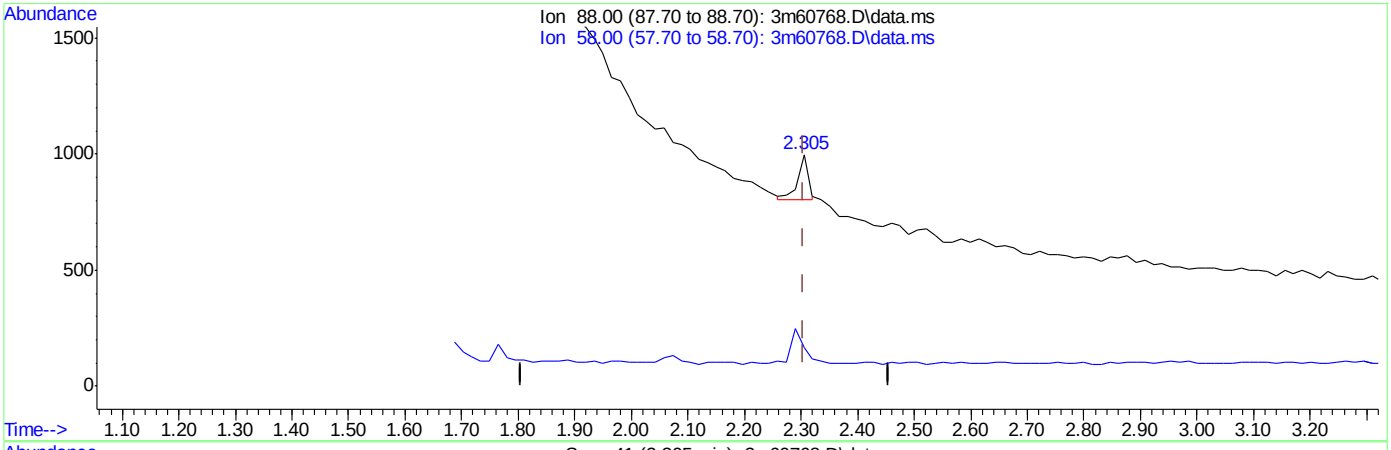
response 710

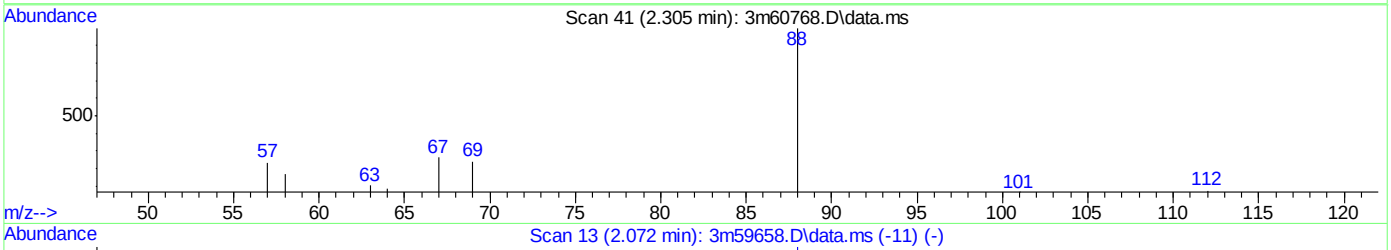
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	28.23
0.00	0.00	0.00
0.00	0.00	0.00

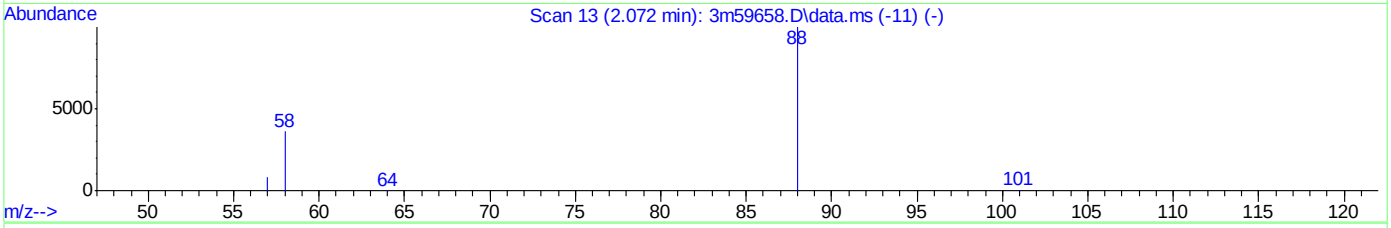
Quantitation Report (Qedit)

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

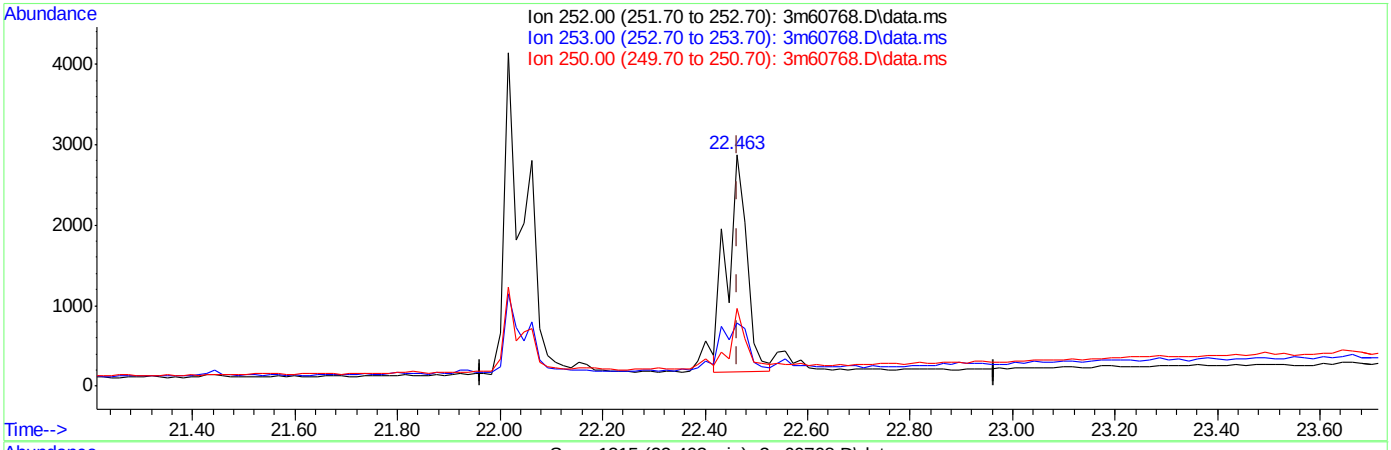
response 245

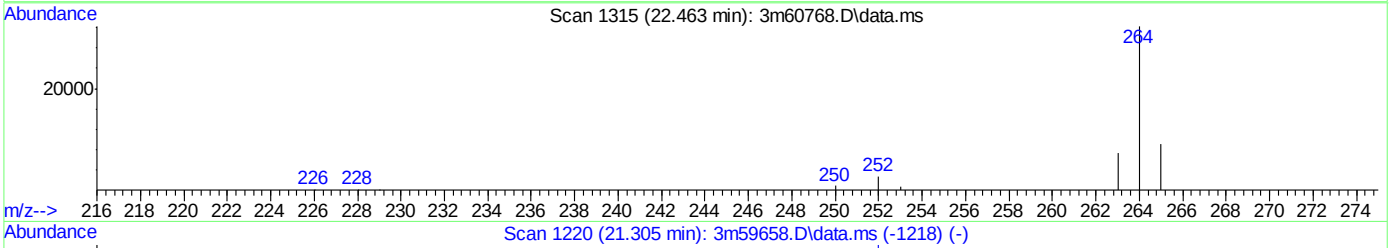
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	16.63
0.00	0.00	0.00
0.00	0.00	0.00

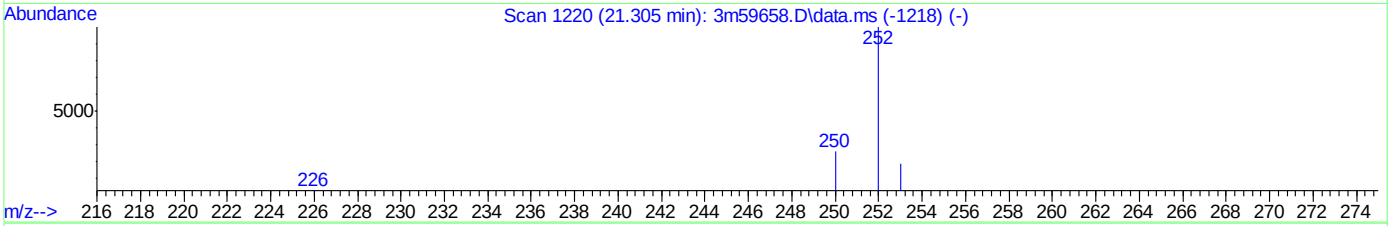
Quantitation Report (Qedit)

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

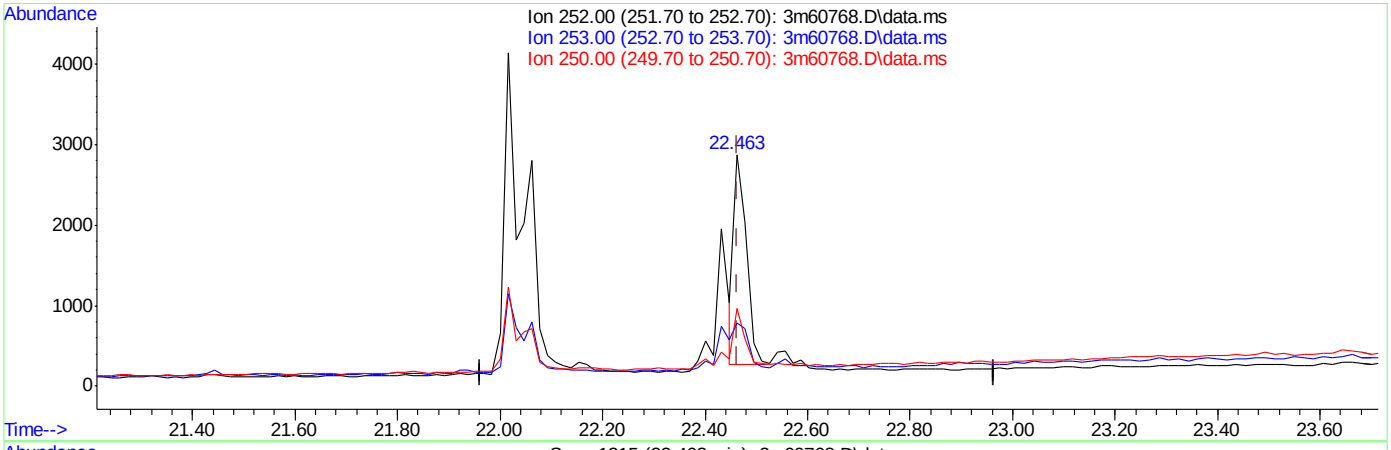
Ion	Exp%	Act%
252.00	100	100
253.00	18.80	20.93
250.00	26.10	27.47
0.00	0.00	0.00

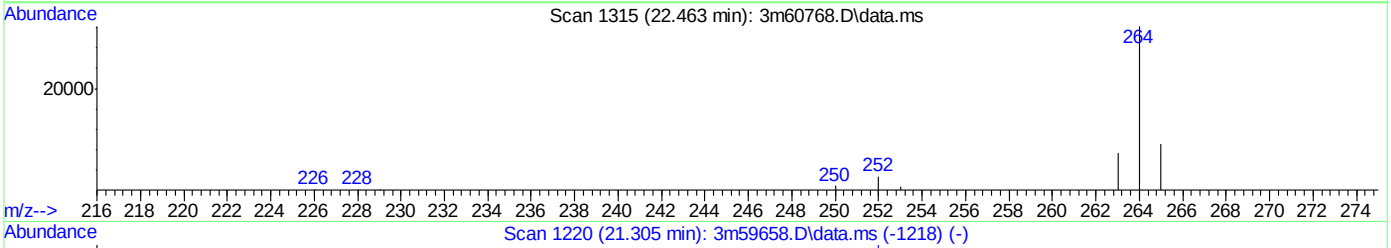
SGS ACCUTEST JC19473

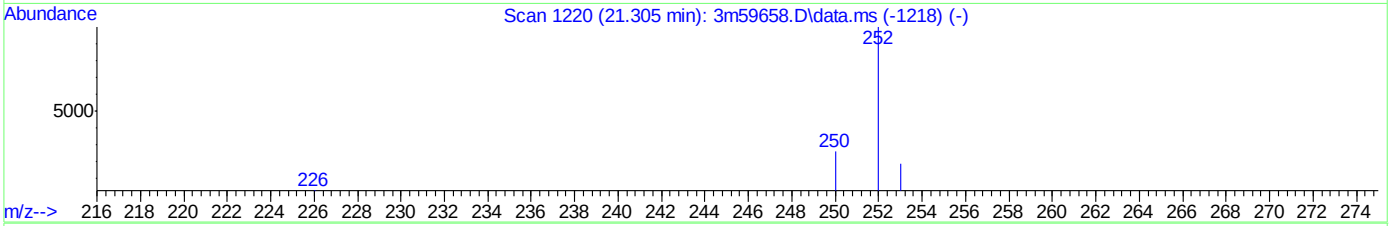
Quantitation Report (Qedit)

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 JC19473

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

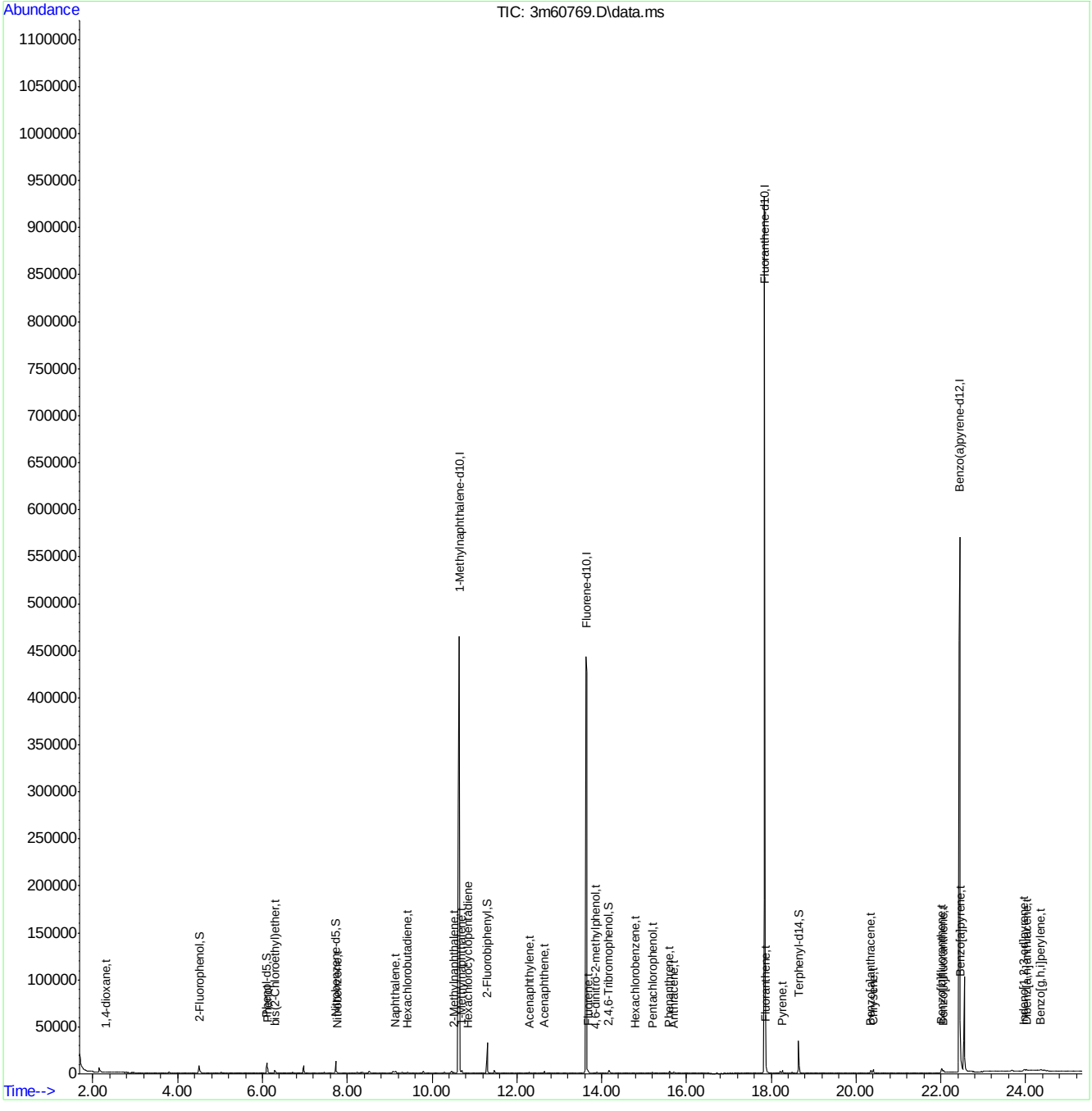
7.6.35

7

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 JC19473

Manual Integration Approval Summary

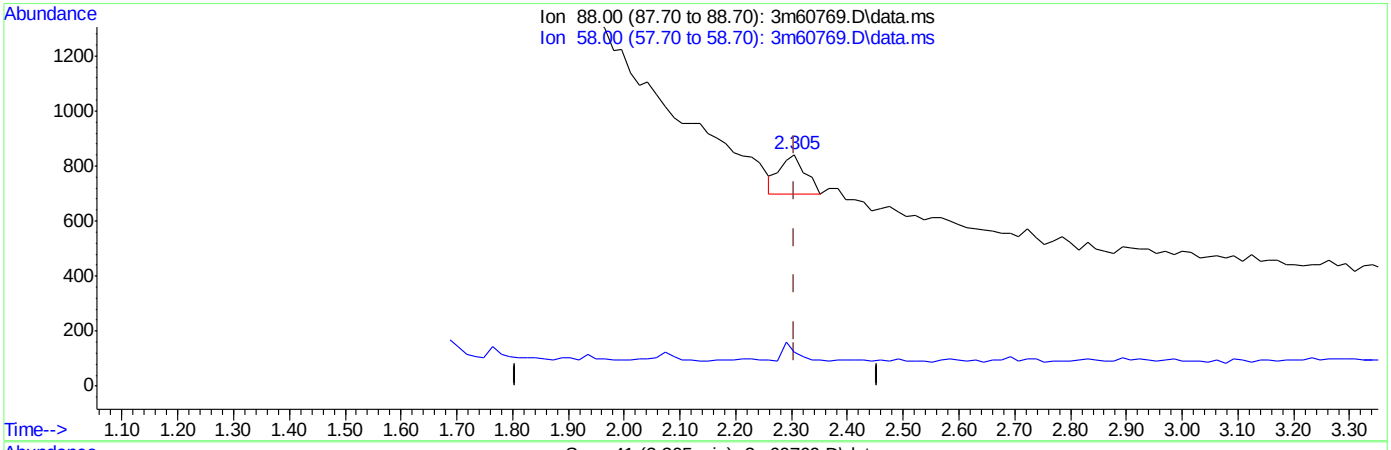
Sample Number:	E3M2855-IC2855	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M60769.D	**Analyst approved:**	04/22/16 09:15 Linsey Kirschmann
Injection Time:	04/21/16 17:49	**Supervisor approved:**	04/22/16 12:27 Nina Pandya

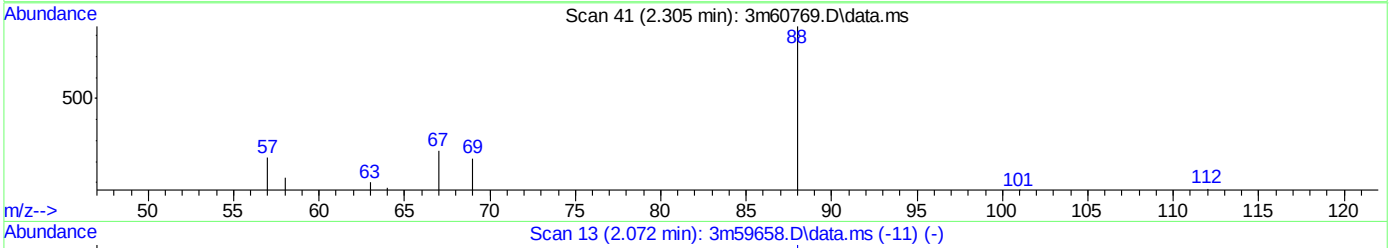
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.31	Baseline ripple

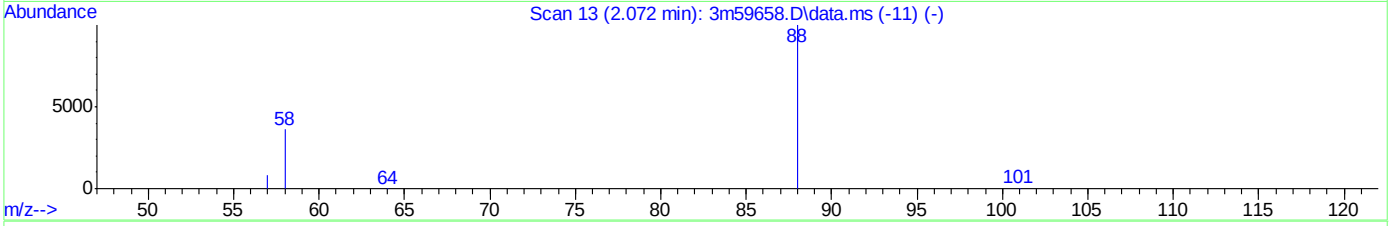
Quantitation Report (Qedit)

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

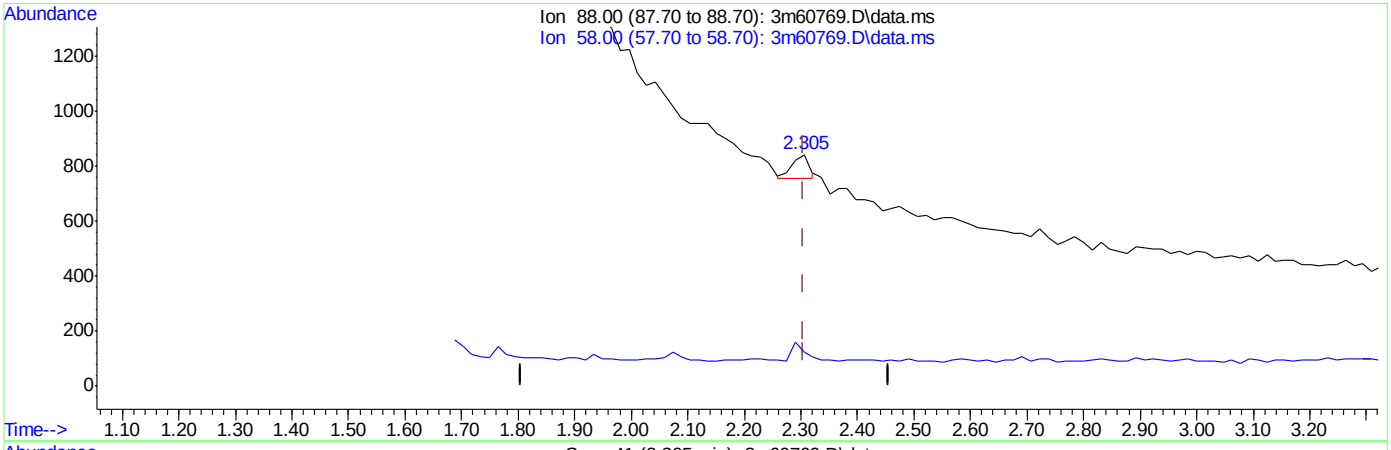
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	25.45
0.00	0.00	0.00
0.00	0.00	0.00

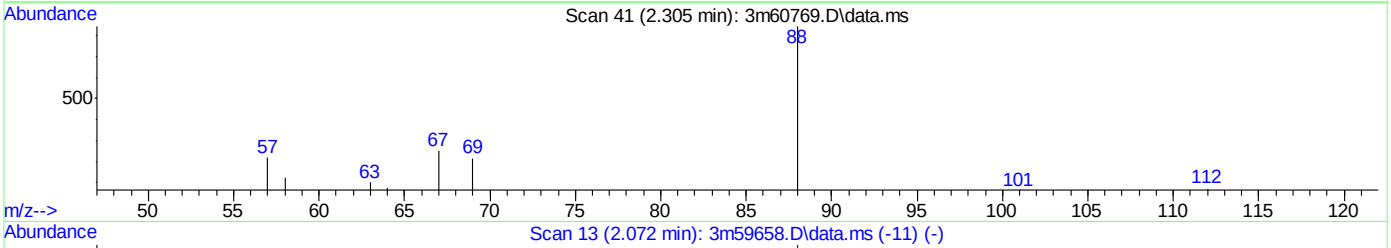
SGS ACCUTEST JC19473

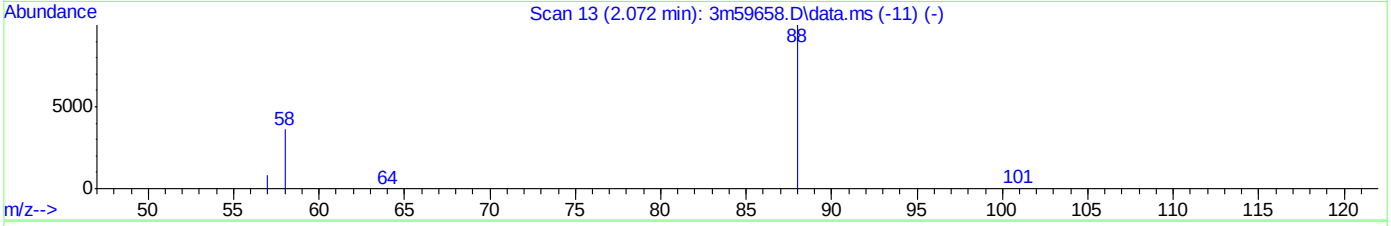
Quantitation Report (Qedit)

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

SGS ACCUTEST JC19473

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

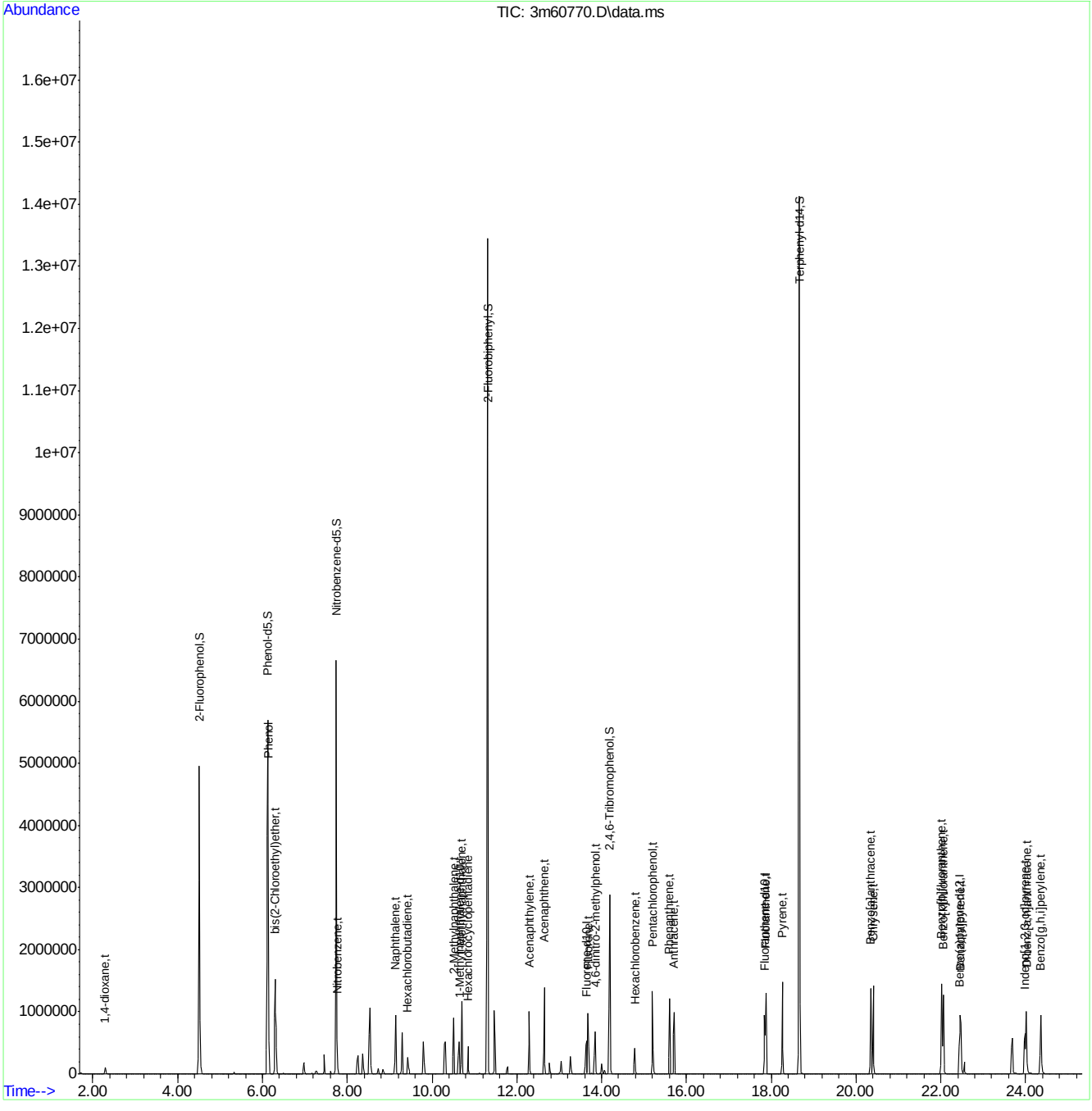
7.6.36

7

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



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 JC19473

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

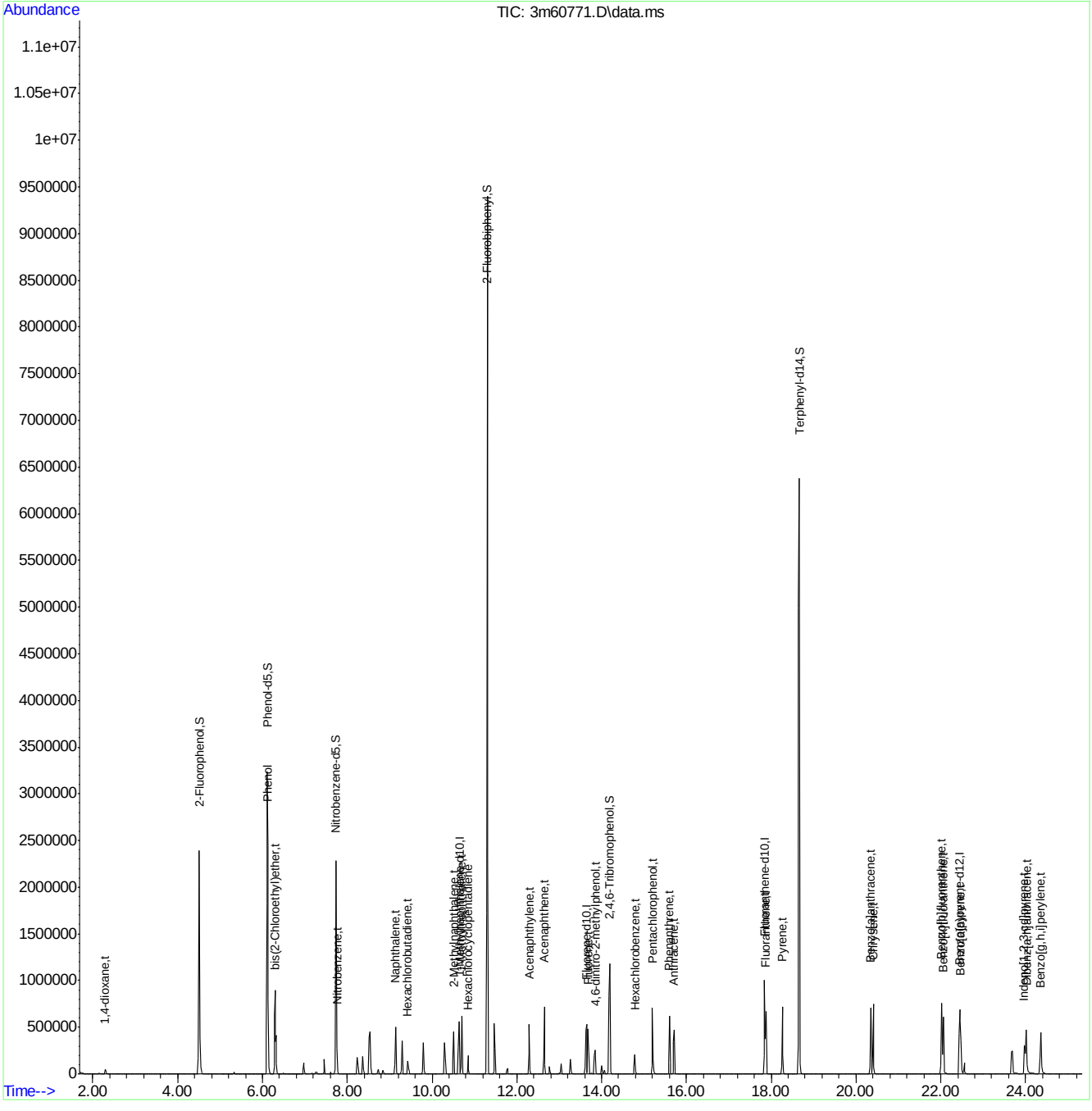
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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 JC19473

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

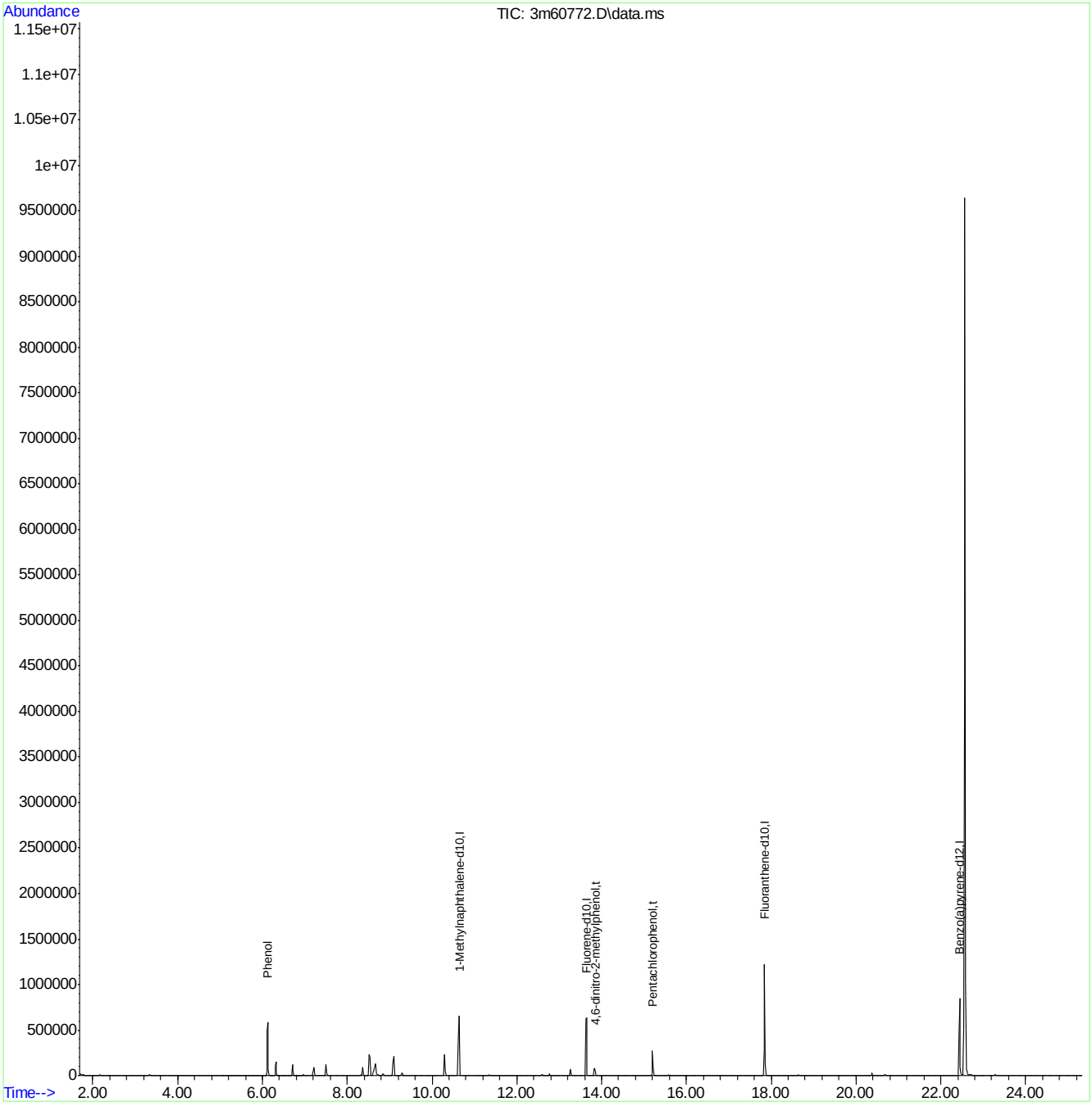
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.641	150	468880	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	745589	4.00 ppm	0.00
21) Fluoranthene-d10	17.844	212	1195677	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	940216	4.00 ppm	0.00
System Monitoring 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

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

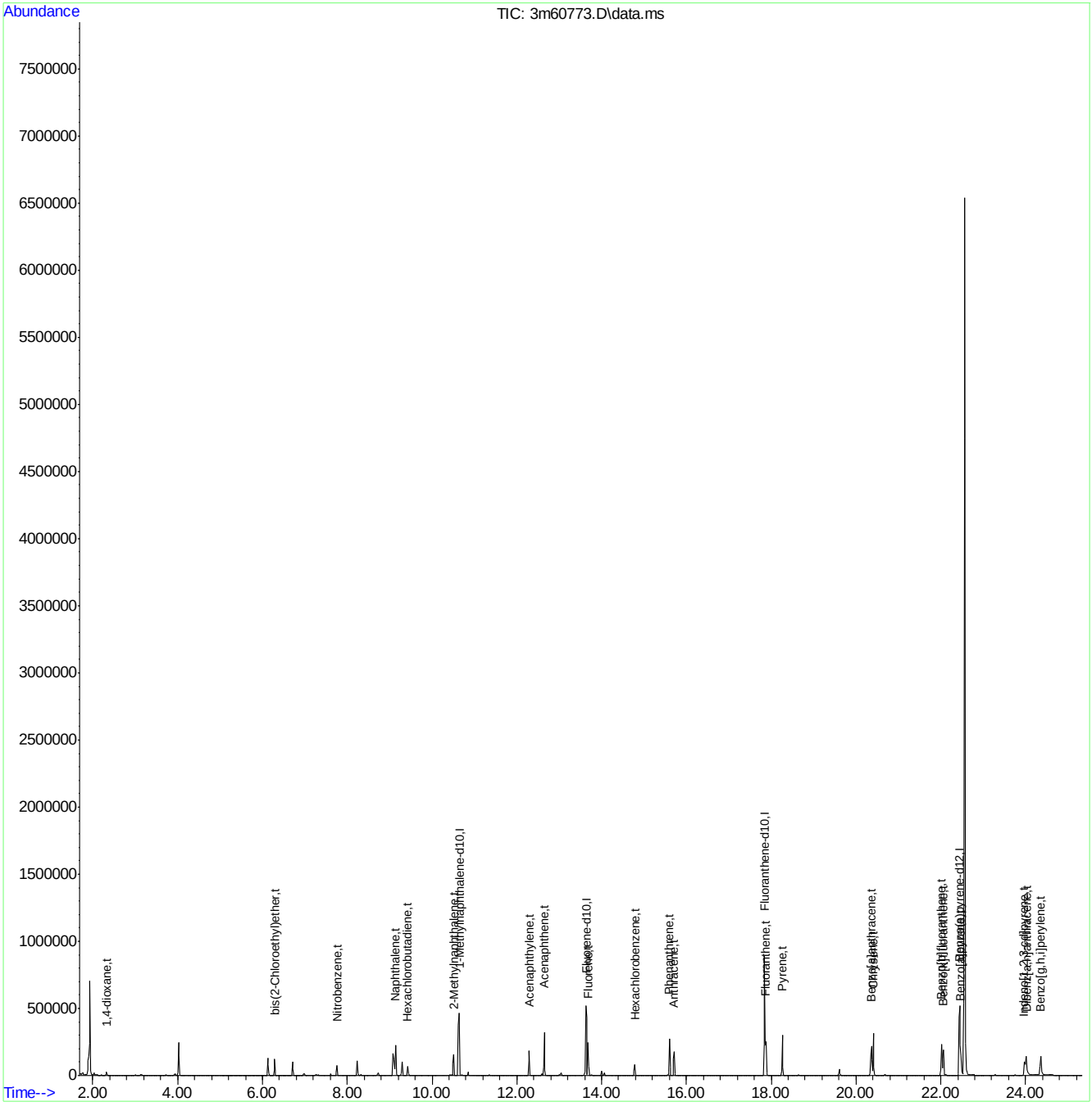
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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

7.6.40

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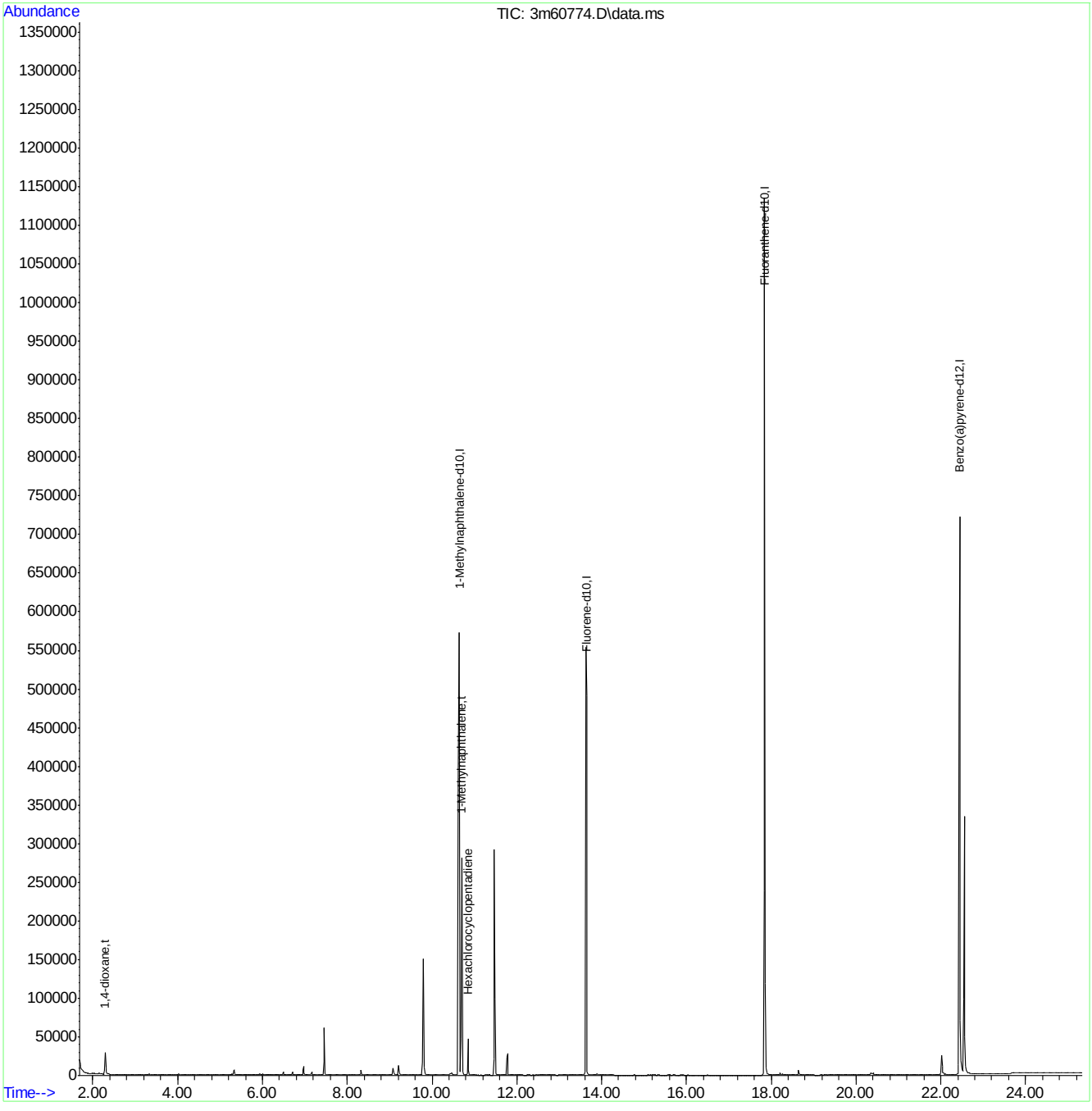
SGS ACCUTEST JC19473

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61045.D
Acq On : 4 May 2016 9:22 am
Operator : linseyk
Sample : cc2855-1
Misc : op93473a,e3m2870
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 09:45:59 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	289001	4.00	ppm	-0.13
14) Fluorene-d10	13.467	176	482884	4.00	ppm	-0.18
21) Fluoranthene-d10	17.685	212	812842	4.00	ppm	-0.17
31) Benzo(a)pyrene-d12	22.289	264	664567	4.00	ppm	-0.16
System Monitoring Compounds						
3) 2-Fluorophenol	4.399	112	792559	21.92	ppm	-0.11
Spiked Amount 50.000			Recovery = 43.84%			
4) Phenol-d5	6.000	99	1285527	21.49	ppm	-0.09
Spiked Amount 50.000			Recovery = 42.98%			
7) Nitrobenzene-d5	7.587	82	1214211	21.83	ppm	-0.12
Spiked Amount 50.000			Recovery = 43.66%			
15) 2-Fluorobiphenyl	11.145	172	2533311	19.09	ppm	-0.16
Spiked Amount 50.000			Recovery = 38.18%			
20) 2,4,6-Tribromophenol	14.014	330	296646	19.63	ppm	-0.16
Spiked Amount 50.000			Recovery = 39.26%			
28) Terphenyl-d14	18.504	244	2426695	20.58	ppm	-0.16
Spiked Amount 50.000			Recovery = 41.16%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.190	88	16067	1.08	ppm	83
5) Phenol	6.012	94	338335	5.25	ppm #	74
6) bis(2-Chloroethyl)ether	6.157	93	48890	1.00	ppm #	46
8) Nitrobenzene	7.625	77	59654	0.99	ppm	92
9) Naphthalene	8.981	128	175130	1.09	ppm	93
10) Hexachlorobutadiene	9.282	225	29035	1.04	ppm	70
11) 2-Methylnaphthalene	10.365	141	88187	1.05	ppm	96
12) 1-Methylnaphthalene	10.550	141	101218	0.90	ppm	98
13) Hexachlorocyclopentadiene	10.693	237	56719	2.55	ppm	95
16) Acenaphthylene	12.134	152	164879	0.99	ppm	100
17) Acenaphthene	12.490	153	111629	1.00	ppm	98
18) 4,6-dinitro-2-methylph...	13.694	198	59808	3.99	ppm	54
19) Fluorene	13.524	166	140055	1.05	ppm	92
22) Hexachlorobenzene	14.609	284	37379	0.97	ppm	81
23) Pentachlorophenol	15.042	266	118212	4.47	ppm	95
24) Phenanthrene	15.429	178	193350	0.97	ppm #	57
25) Anthracene	15.537	178	175605	1.00	ppm	93
26) Fluoranthene	17.716	202	211610	0.85	ppm	99
27) Pyrene	18.102	202	218510	0.94	ppm	99
29) Benzo[a]anthracene	20.188	228	184837	0.83	ppm	96
30) Chrysene	20.250	228	202188	0.95	ppm	98
32) Benzo[b]fluoranthene	21.857	252	197783	0.89	ppm	97
33) Benzo[k]fluoranthene	21.903	252	196209	0.96	ppm	98
34) Benzo[a]pyrene	22.305	252	173512	0.84	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.787	276	202306	0.97	ppm	91
36) Dibenz[a,h]anthracene	23.824	278	175289	1.02	ppm	100
37) Benzo[g,h,i]perylene	24.144	276	183281	1.01	ppm	98

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61045.D
Acq On : 4 May 2016 9:22 am
Operator : linseyk
Sample : cc2855-1
Misc : op93473a,e3m2870
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 09:45:59 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

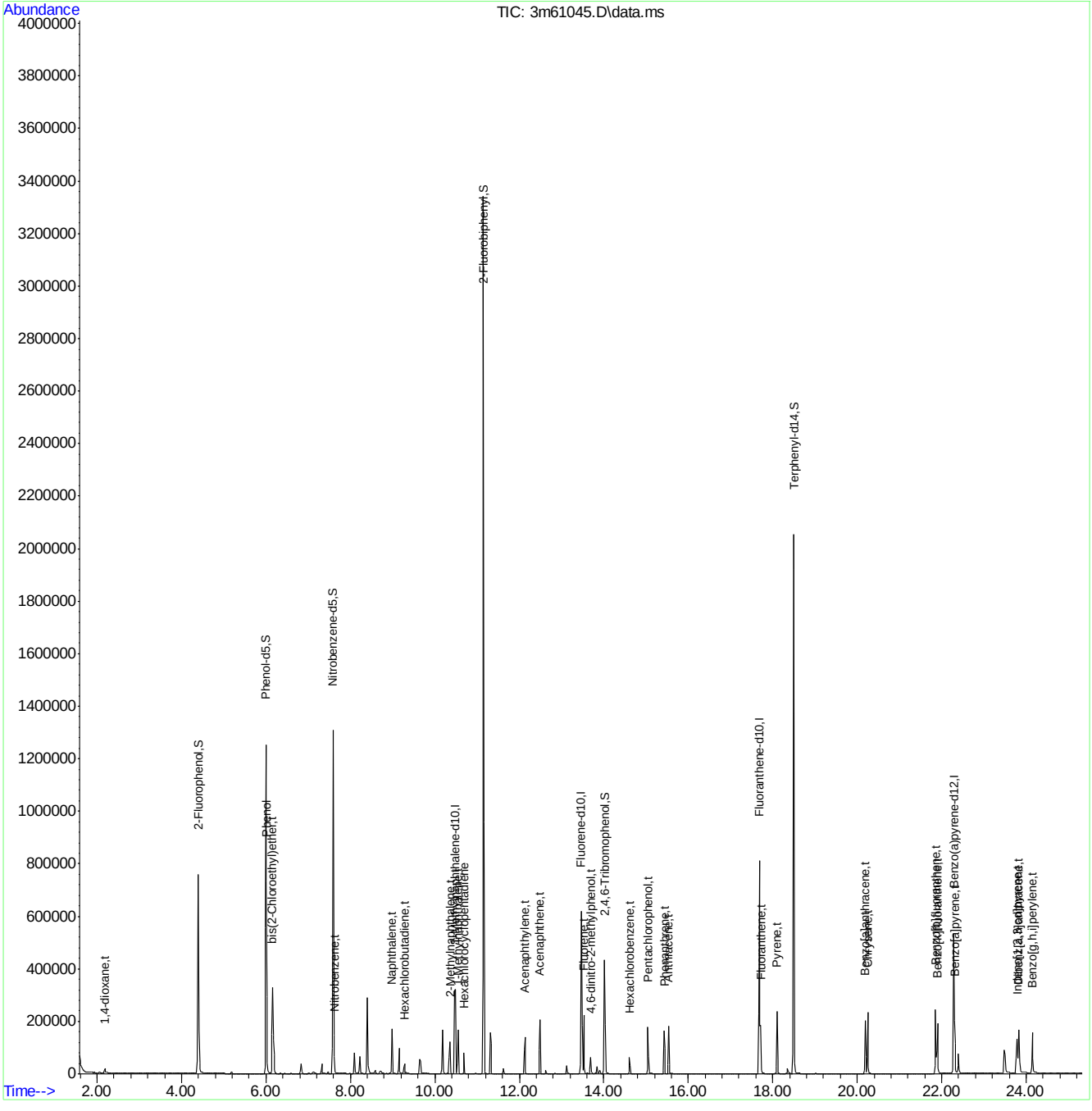
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2870\
Data File : 3m61045.D
Acq On : 4 May 2016 9:22 am
Operator : linseyk
Sample : cc2855-1
Misc : op93473a,e3m2870
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 09:45:59 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 JC19473

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 JC19473

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

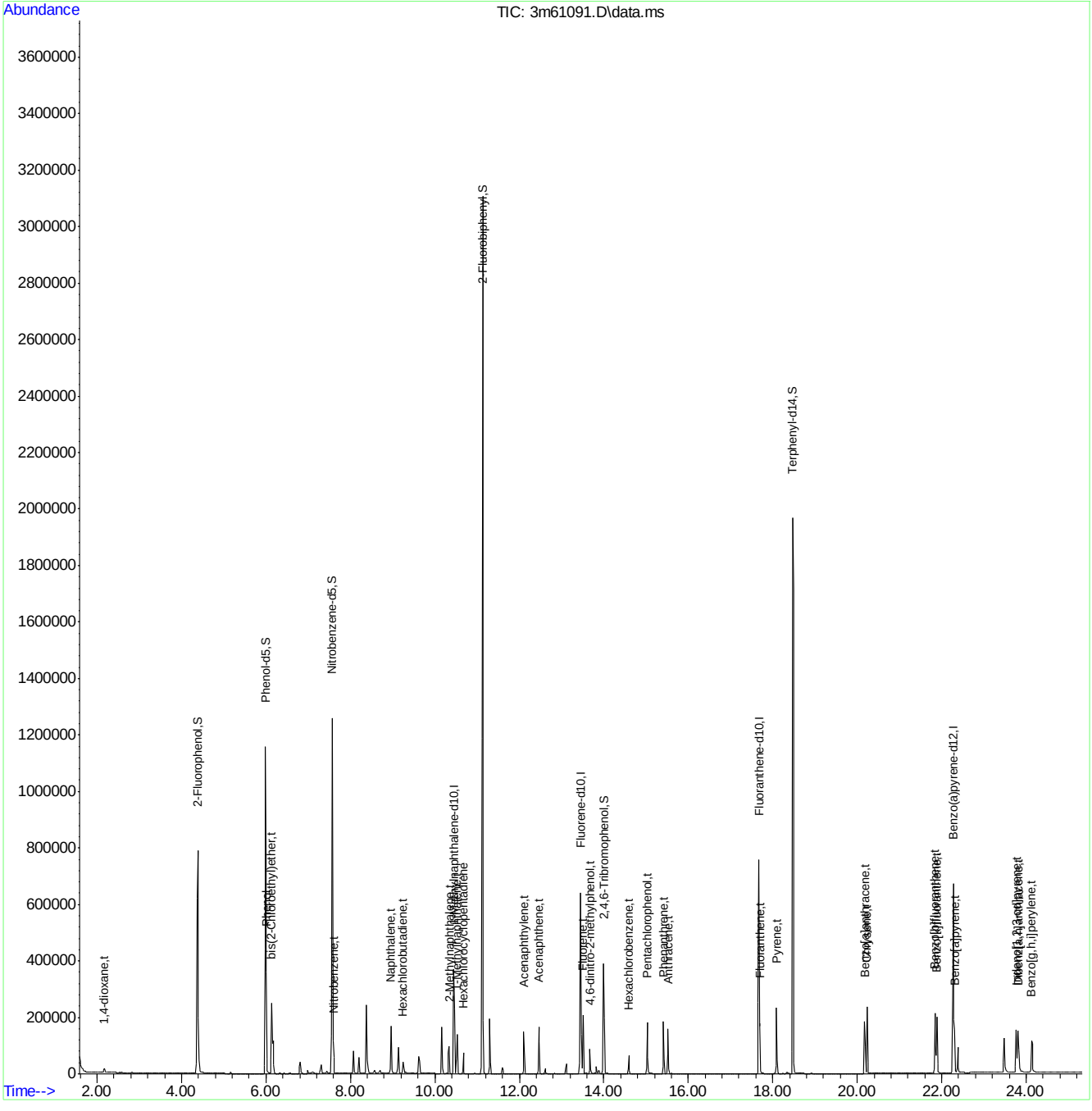
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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 JC19473

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

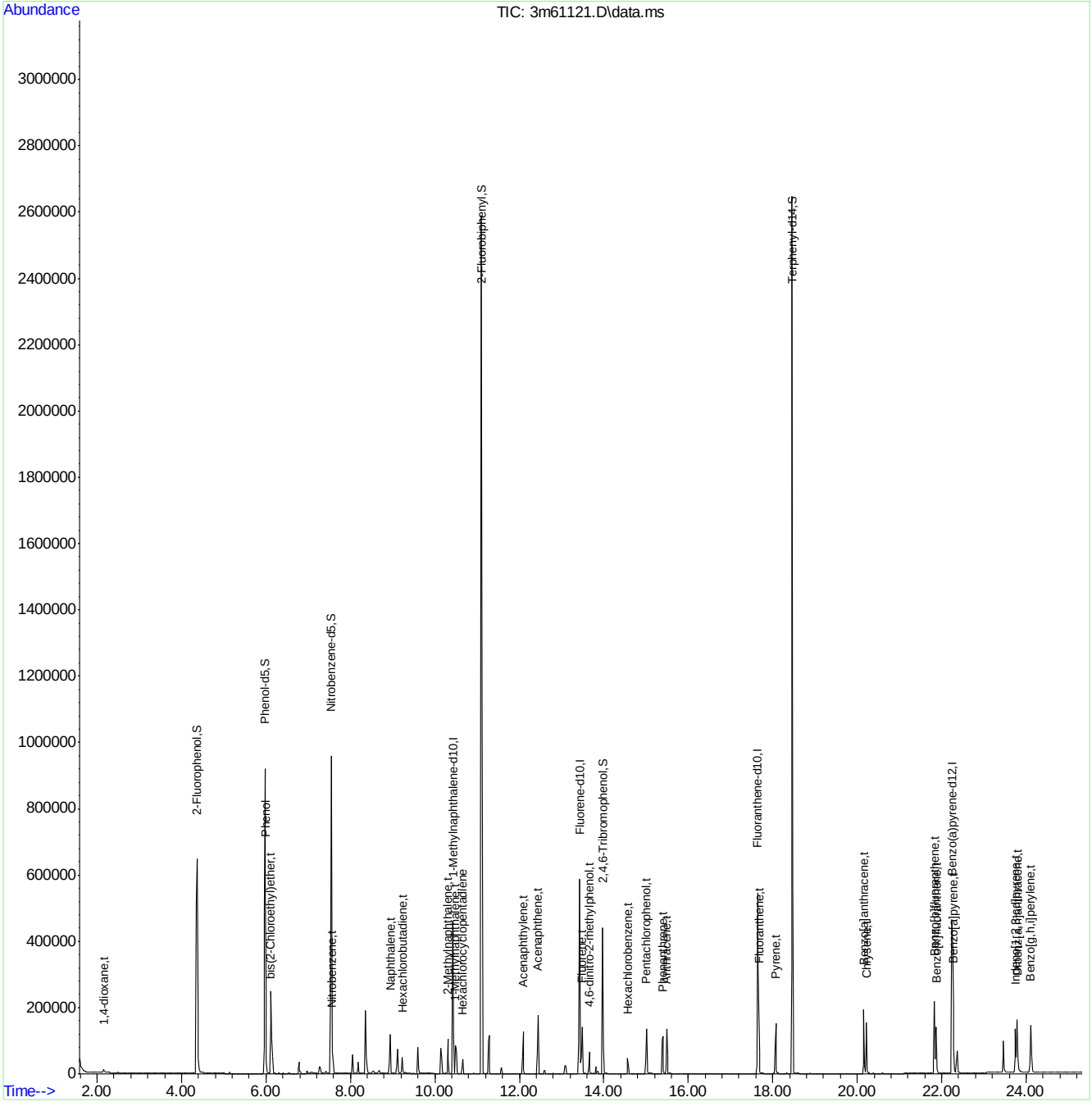
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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



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

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 JC19473

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

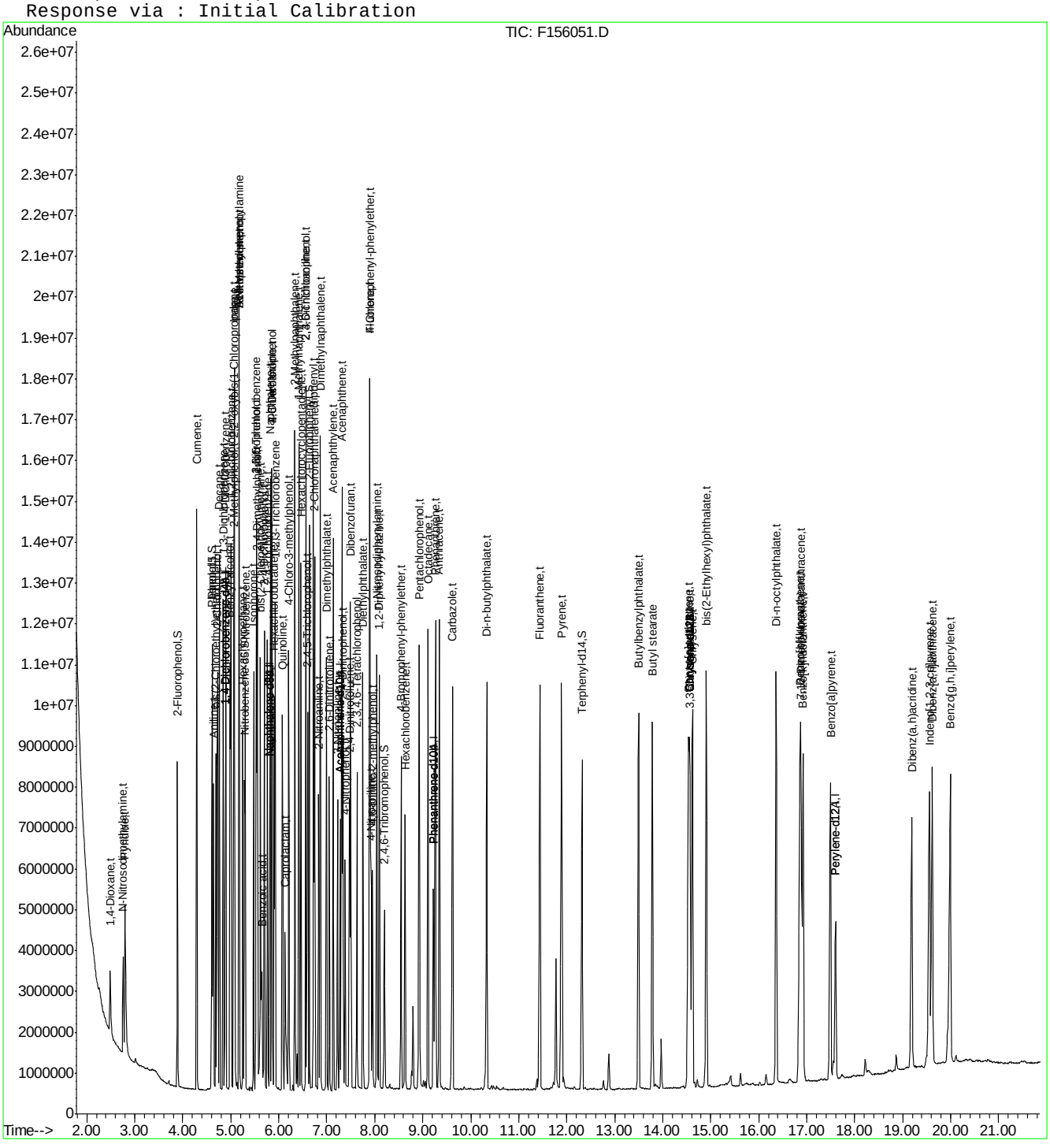
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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 JC19473

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

SGS ACCUTEST JC19473

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 JC19473

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

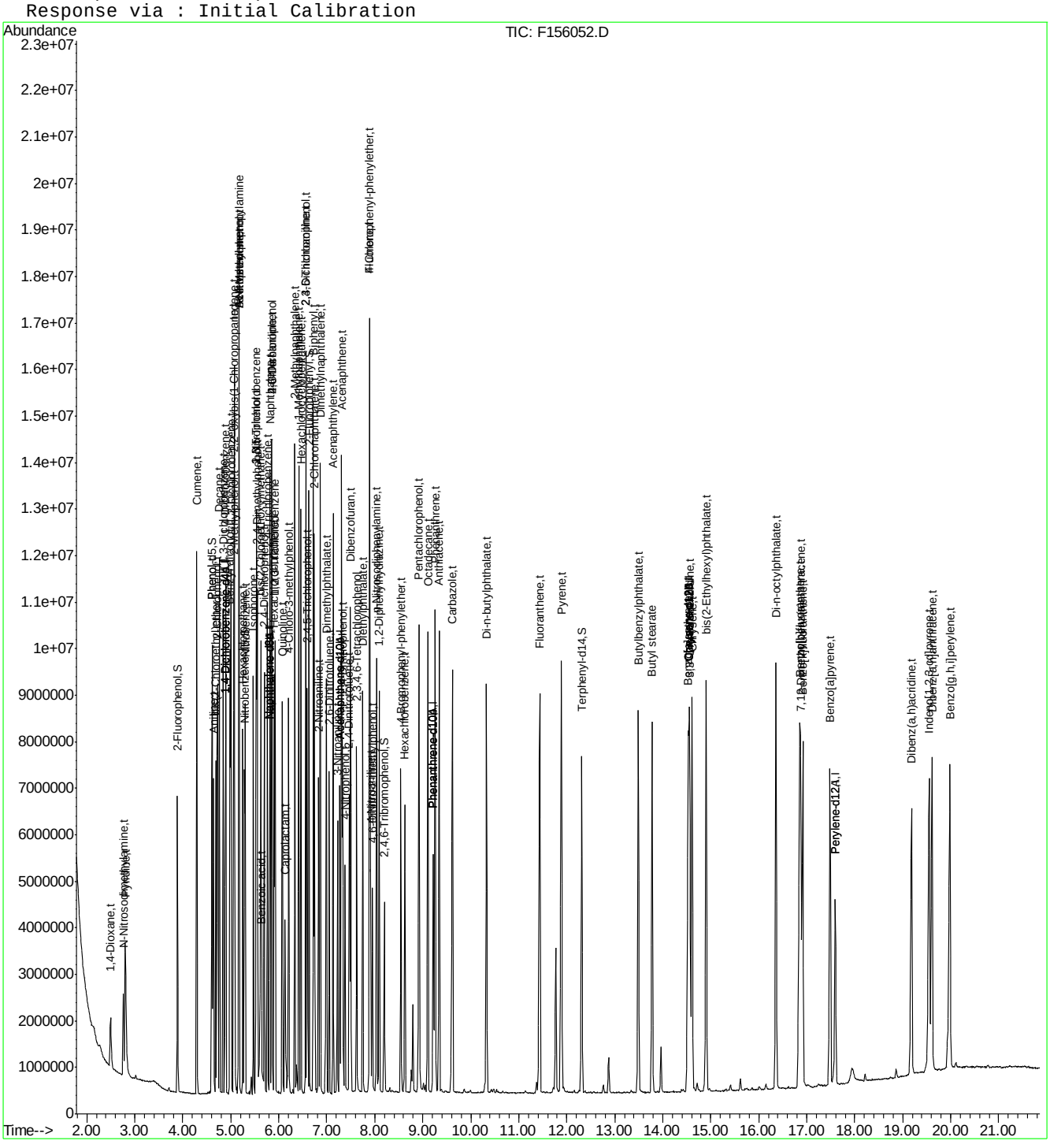
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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 JC19473

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

SGS ACCUTEST JC19473

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

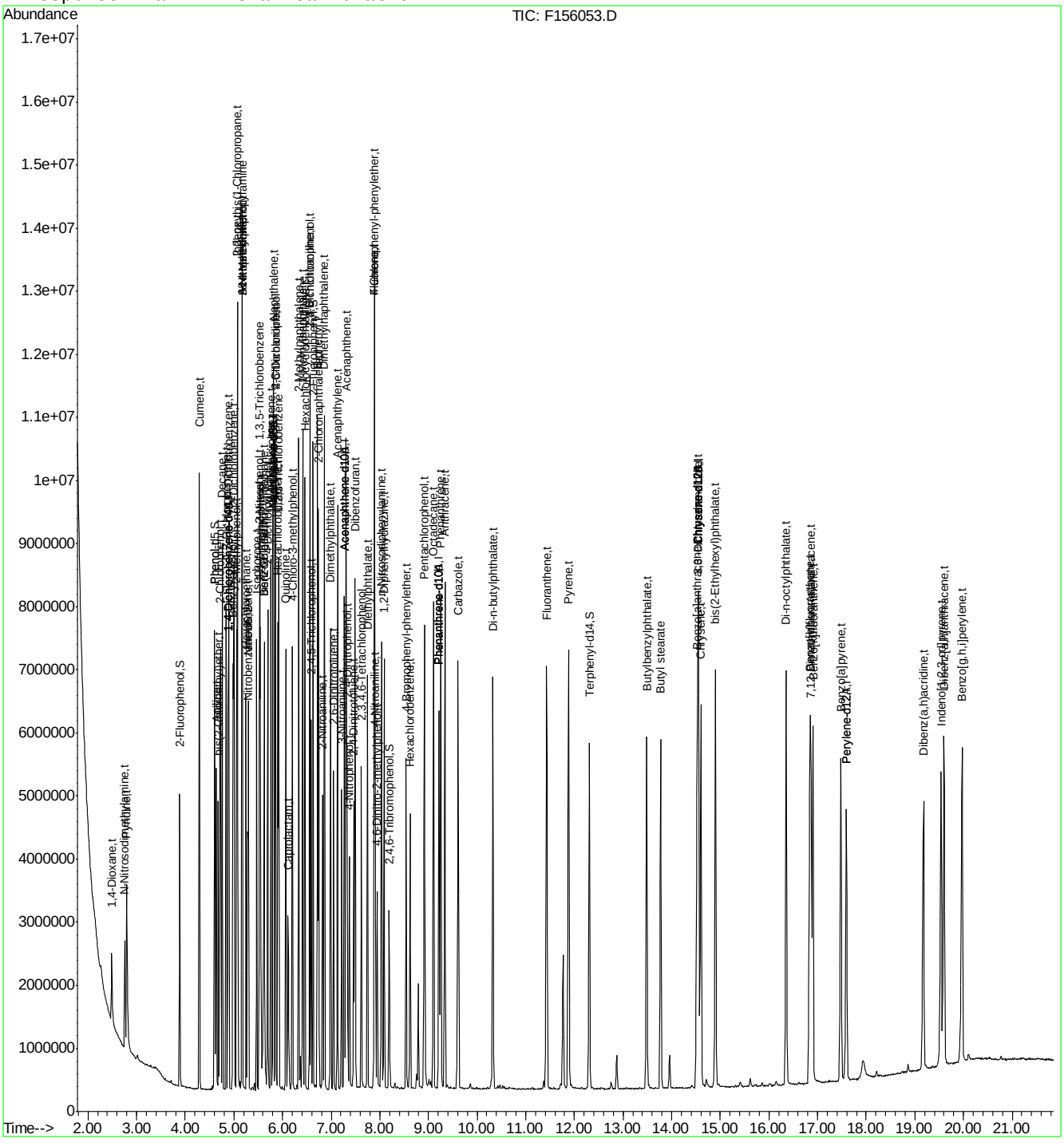
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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 JC19473

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

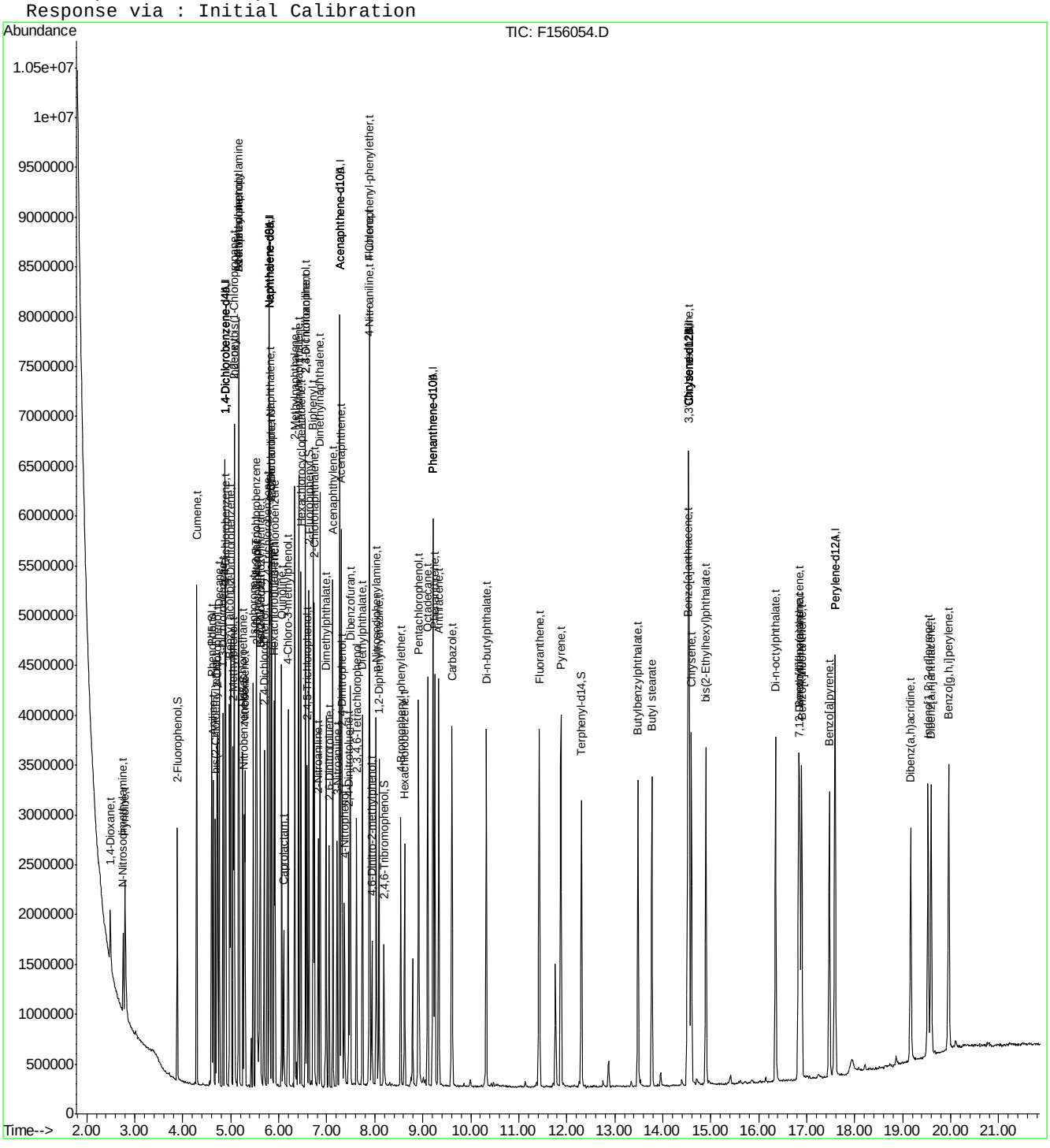
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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 JC19473

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

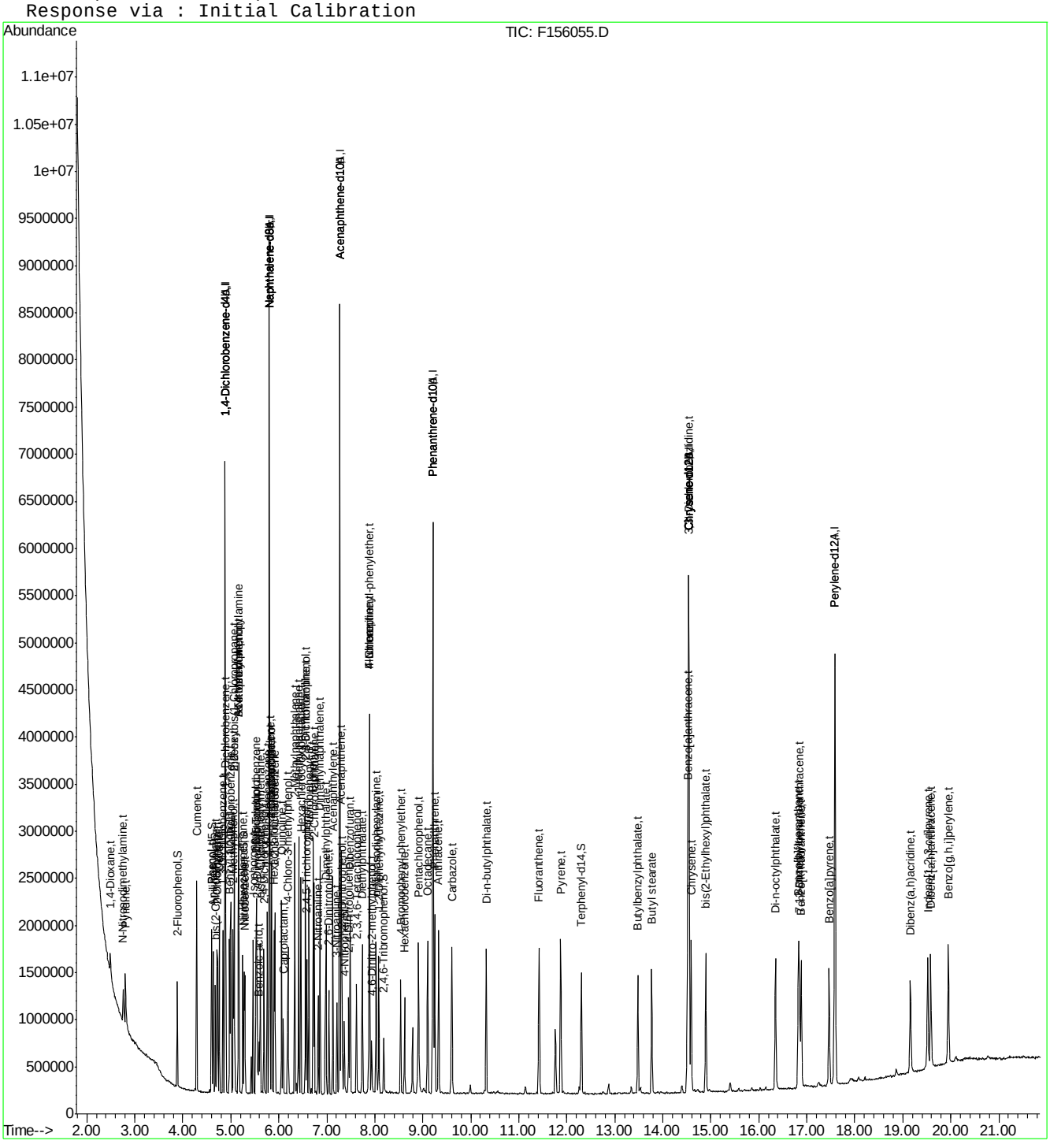
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

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 JC19473

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

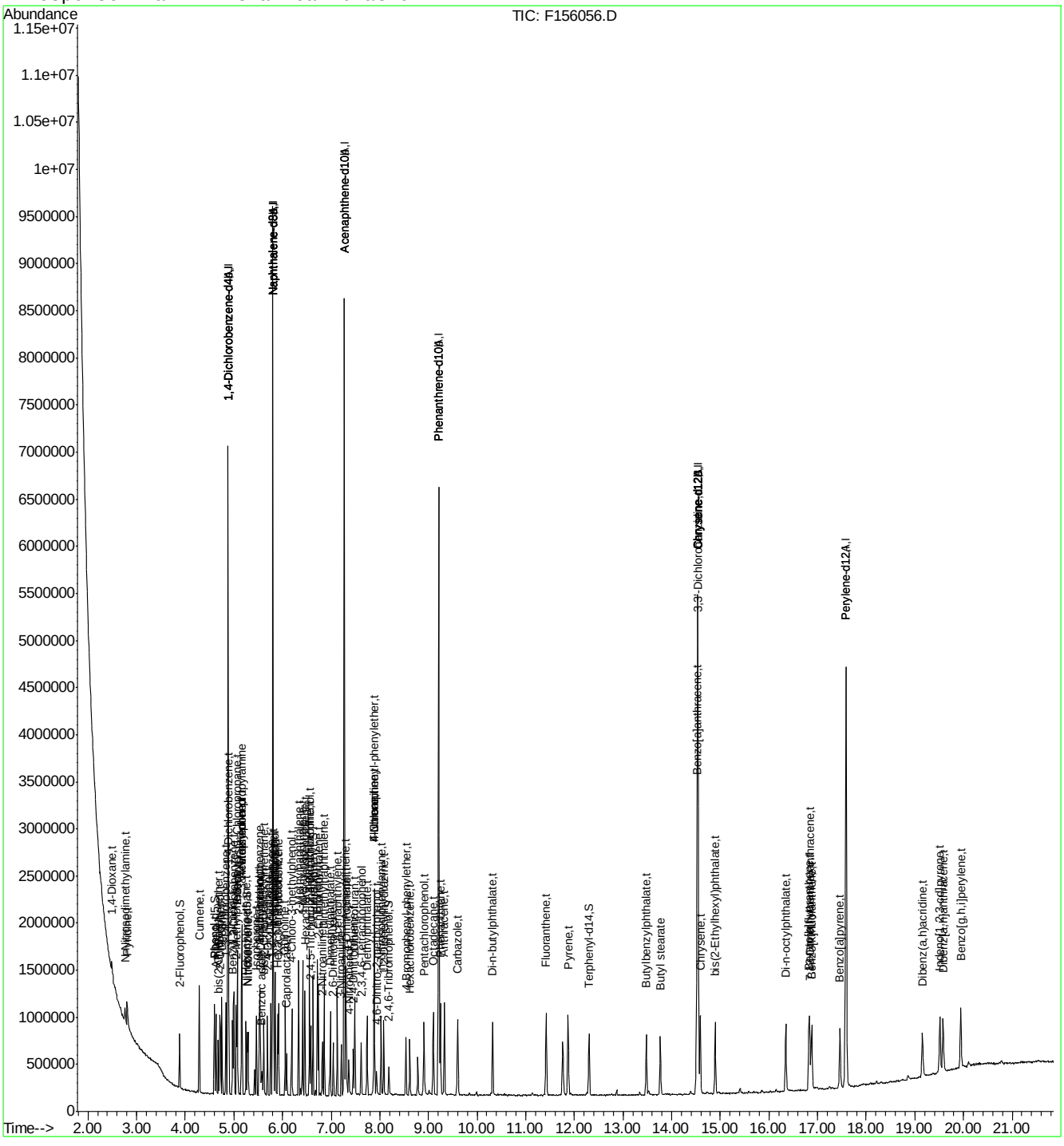
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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 JC19473

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 JC19473

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

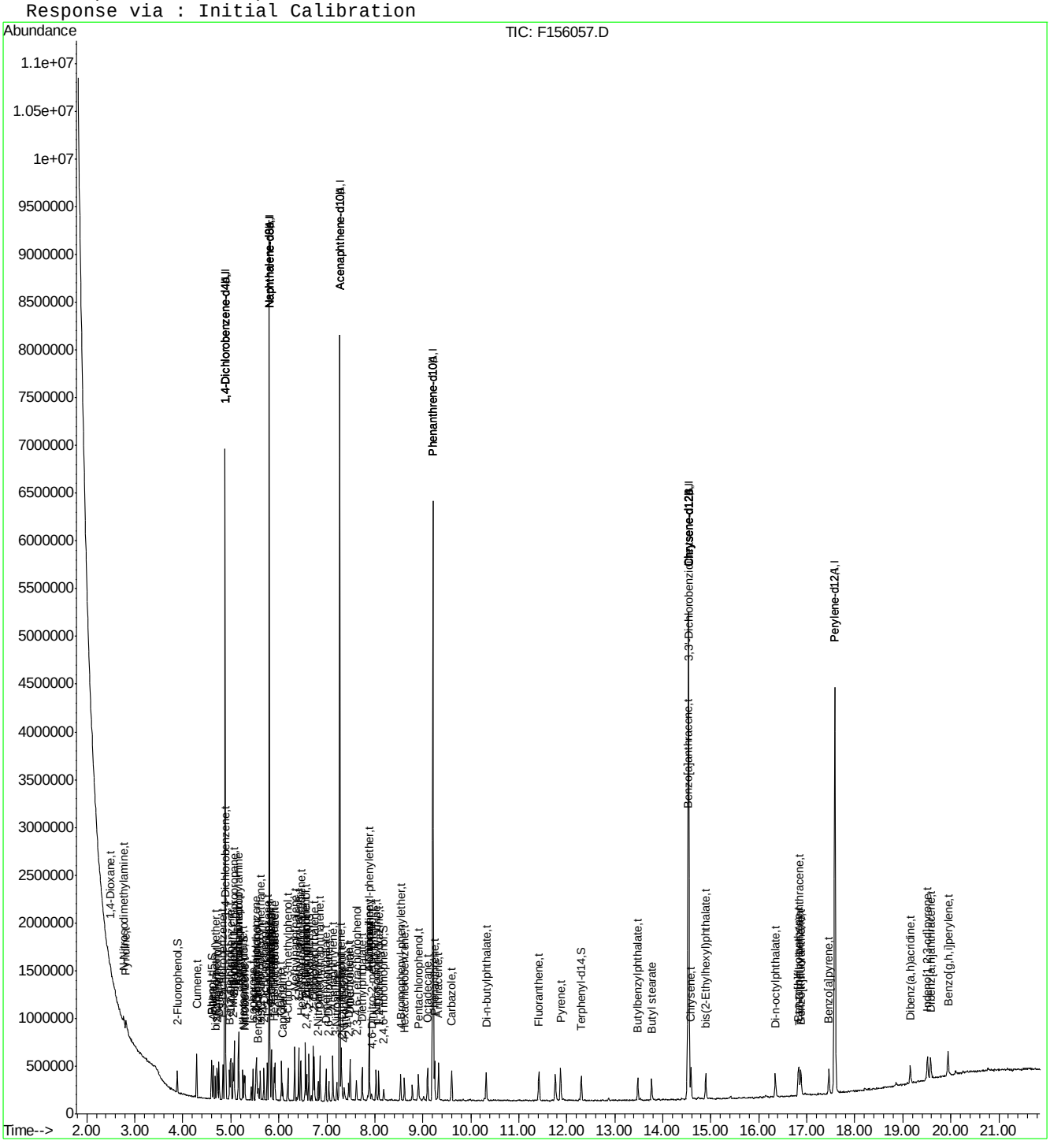
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

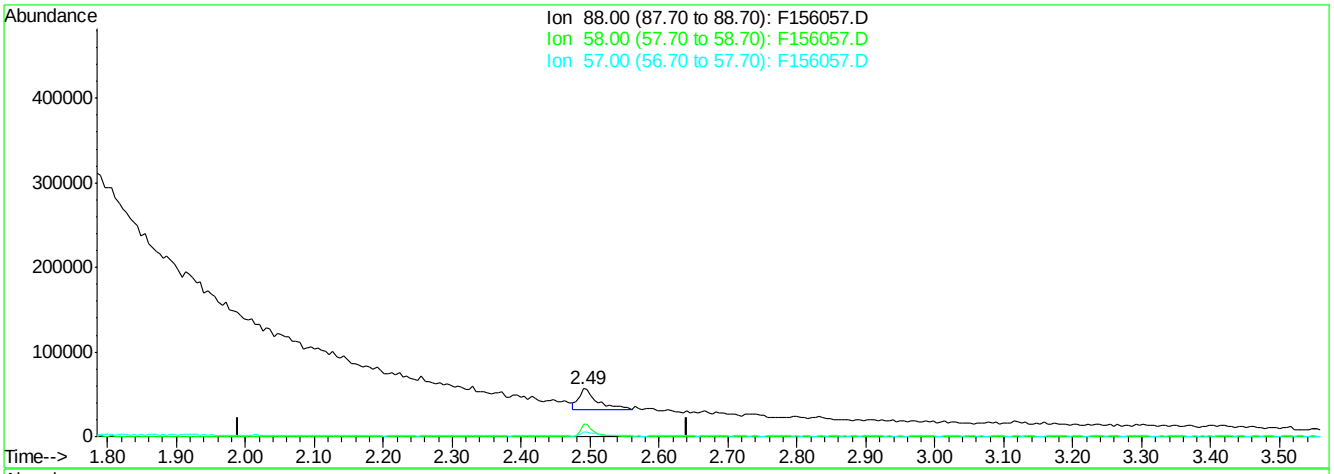
Sample Number:	EF6563-IC6563	**Method:**	SW846 8270D
Lab FileID:	F156057.D	**Analyst approved:**	04/06/16 08:21 Linsey Kirschmann
Injection Time:	04/04/16 22:04	**Supervisor approved:**	04/06/16 15:11 Kristi Schollenberger

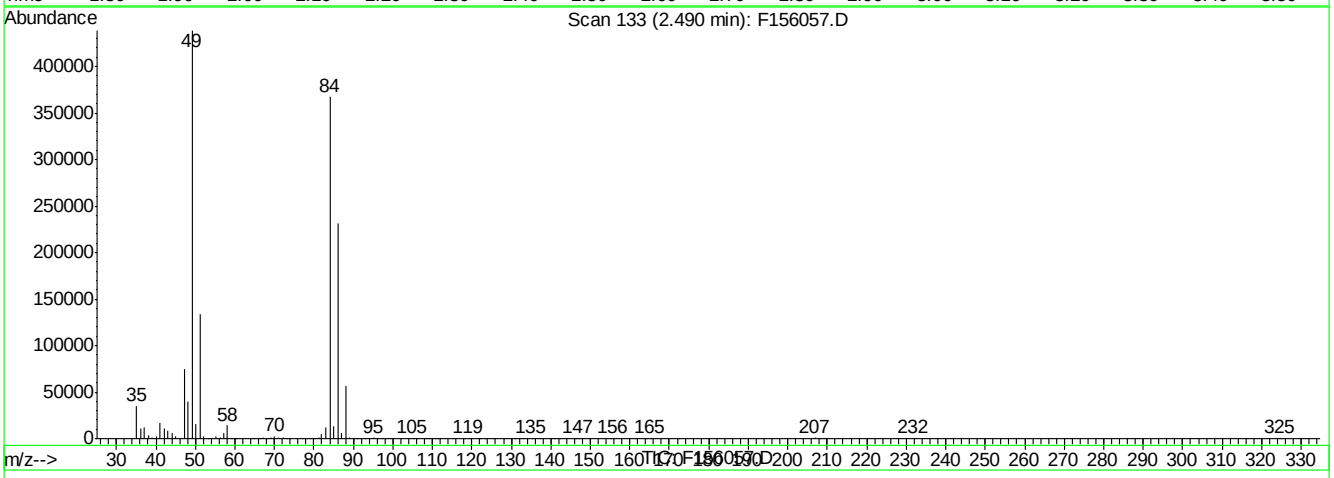
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.49	Poor instrument integration

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

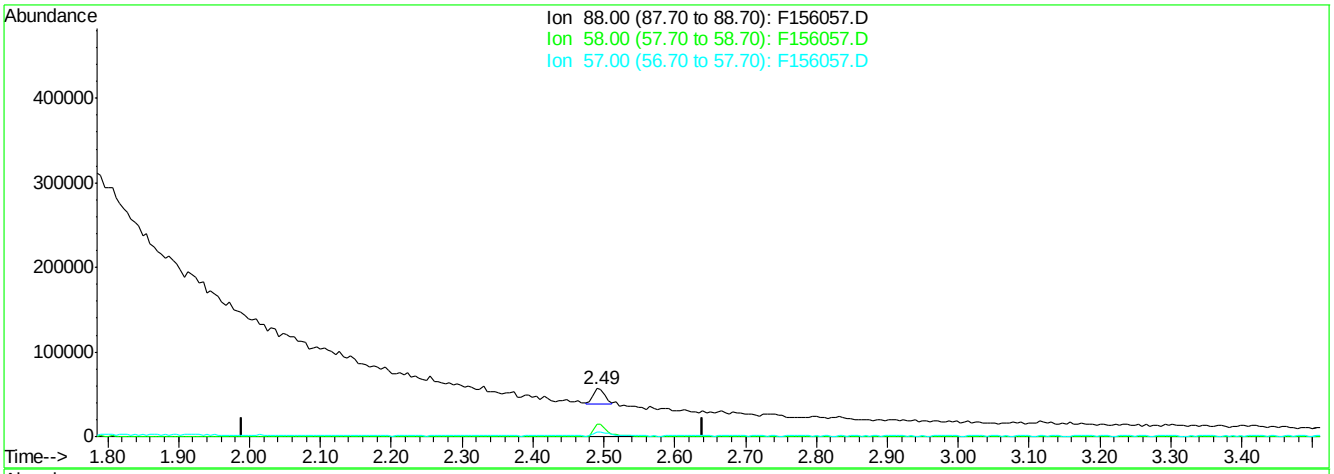
Ion	Exp%	Act%
88.00	100	100
58.00	66.20	68.89
57.00	21.10	24.74
0.00	0.00	0.00

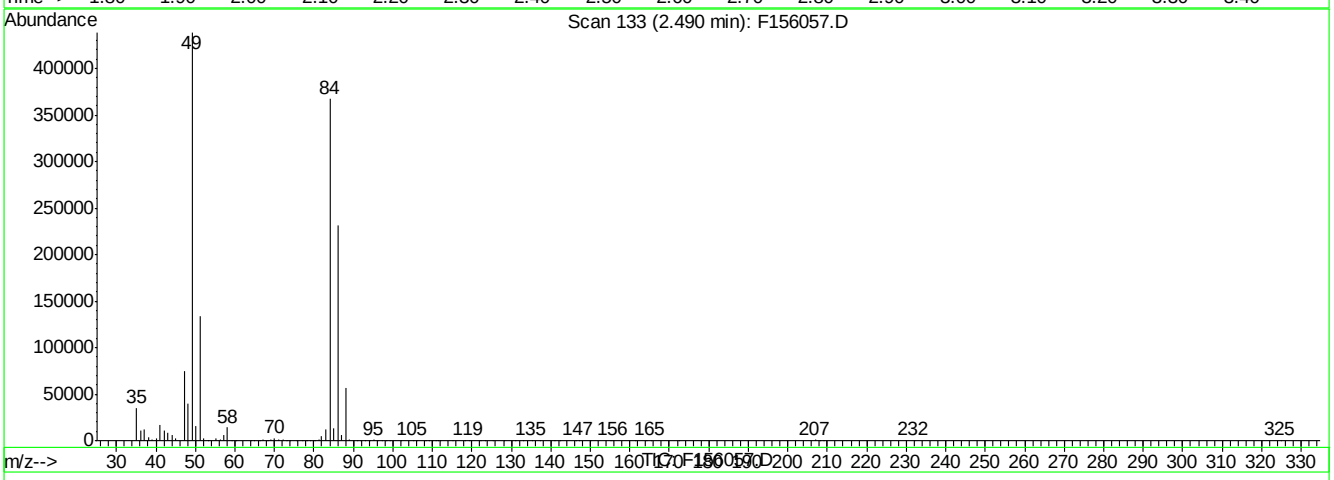
F156057.D MF6563.M Tue Apr 05 09:15:23 2016 RT1

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

7.6.50.3

7

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 JC19473

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

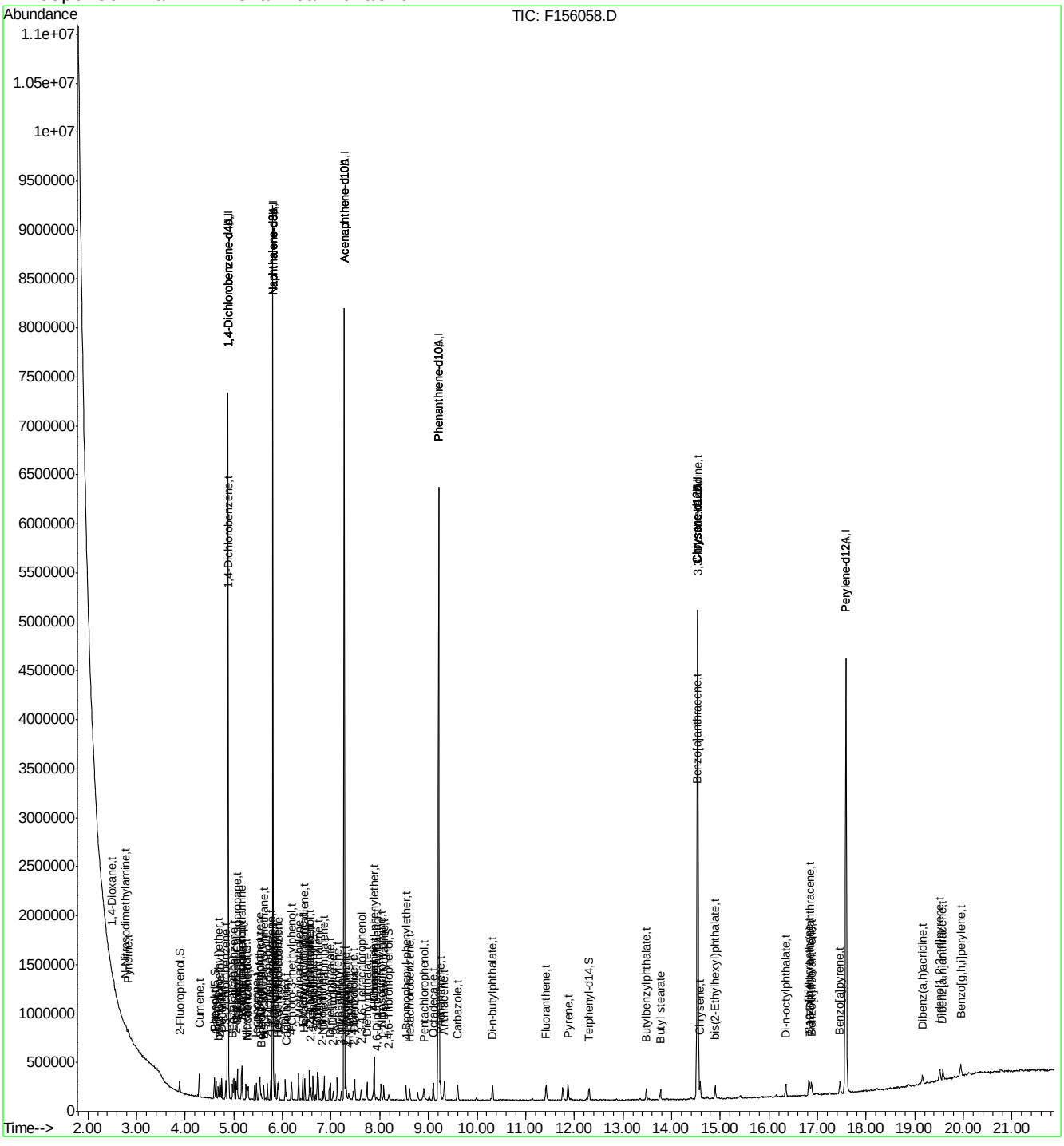
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

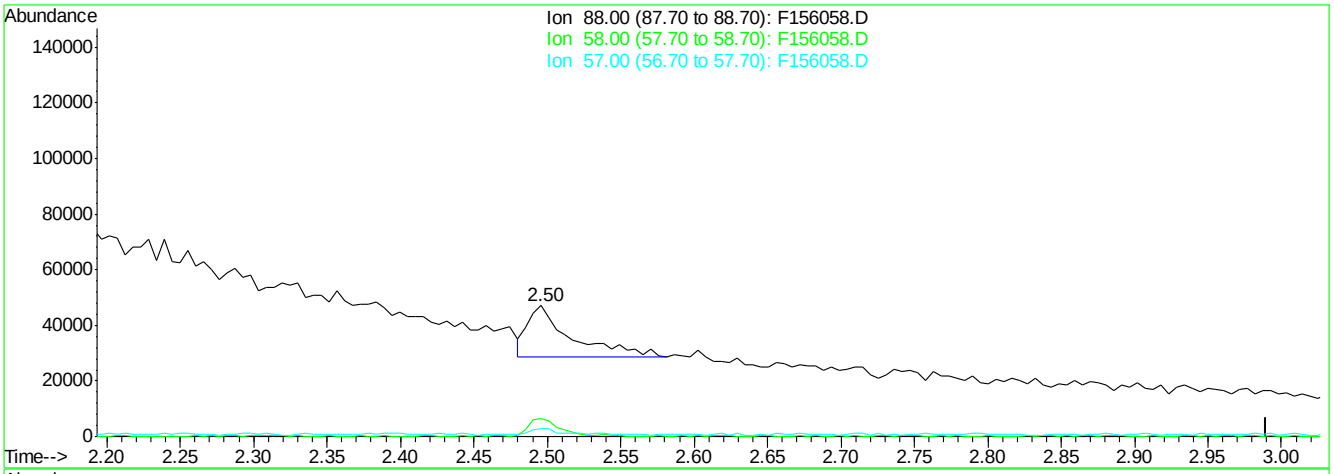
Sample Number:	EF6563-IC6563	**Method:**	SW846 8270D
Lab FileID:	F156058.D	**Analyst approved:**	04/06/16 08:21 Linsey Kirschmann
Injection Time:	04/04/16 22:33	**Supervisor approved:**	04/06/16 15:11 Kristi Schollenberger

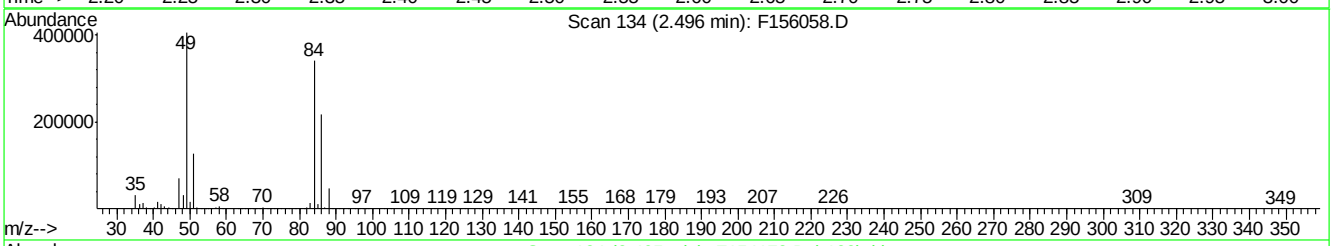
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.50	Poor instrument integration

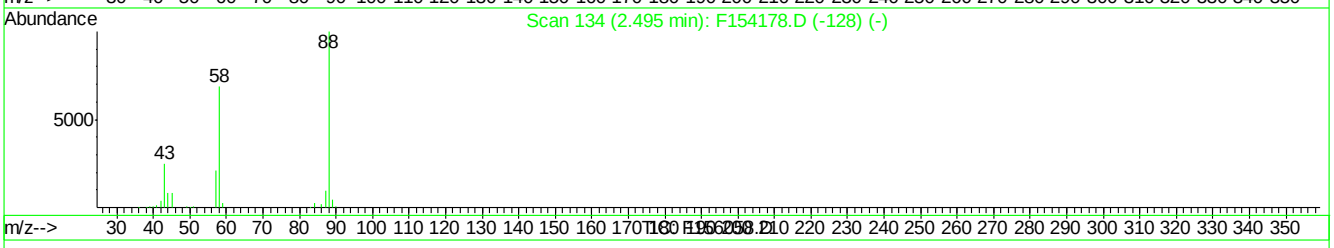
Quantitation Report (Qedit)

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

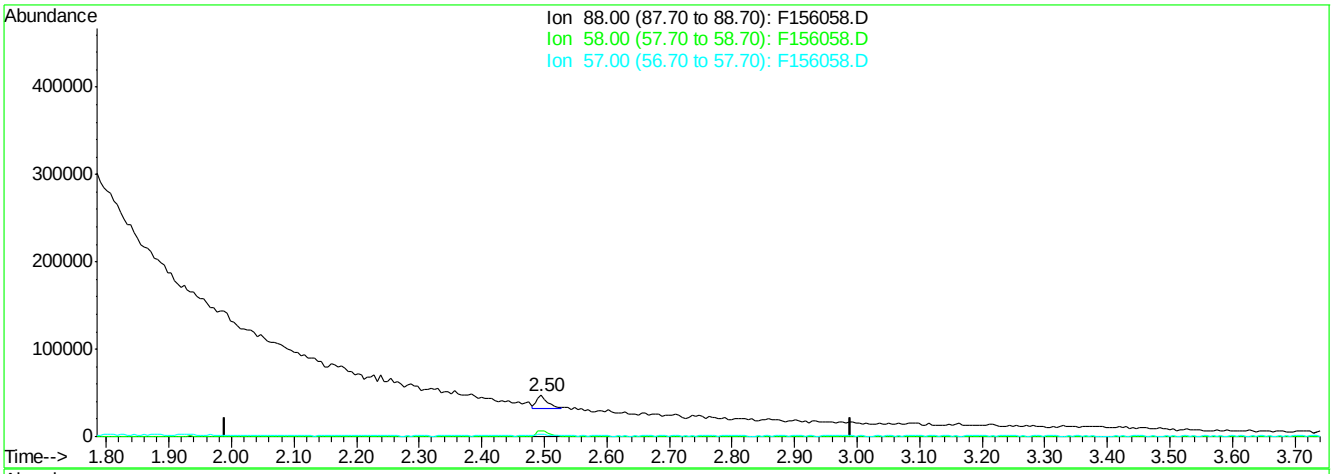
Ion	Exp%	Act%
88.00	100	100
58.00	61.80	40.90
57.00	19.90	13.02
0.00	0.00	0.00

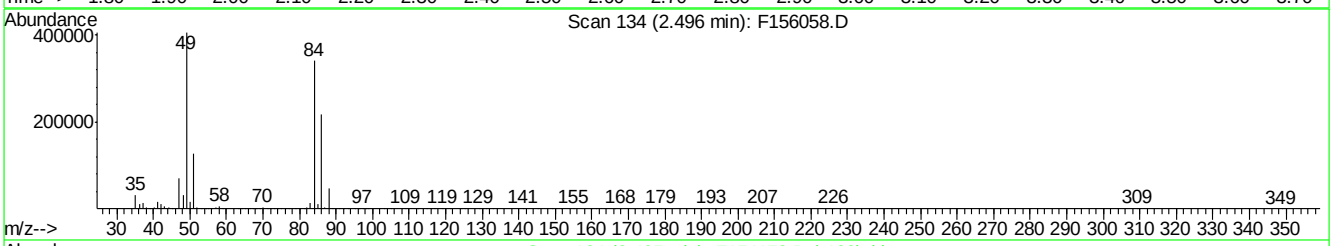
F156058.D MF6563.M Tue Apr 05 09:24:19 2016 RT1

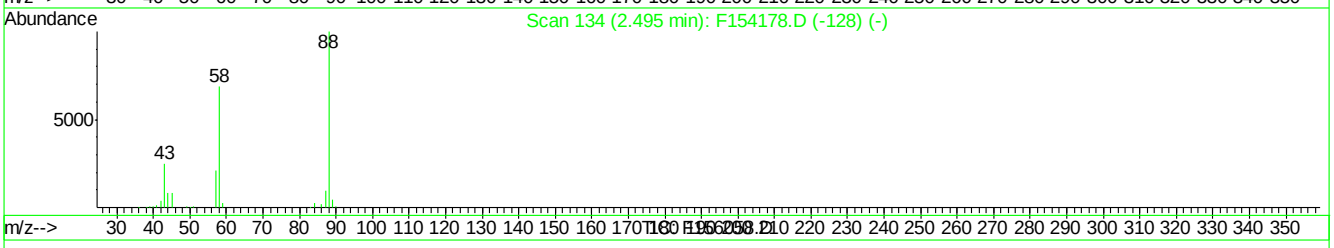
Quantitation Report (Qedit)

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

SGS ACCUTEST JC19473

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%			

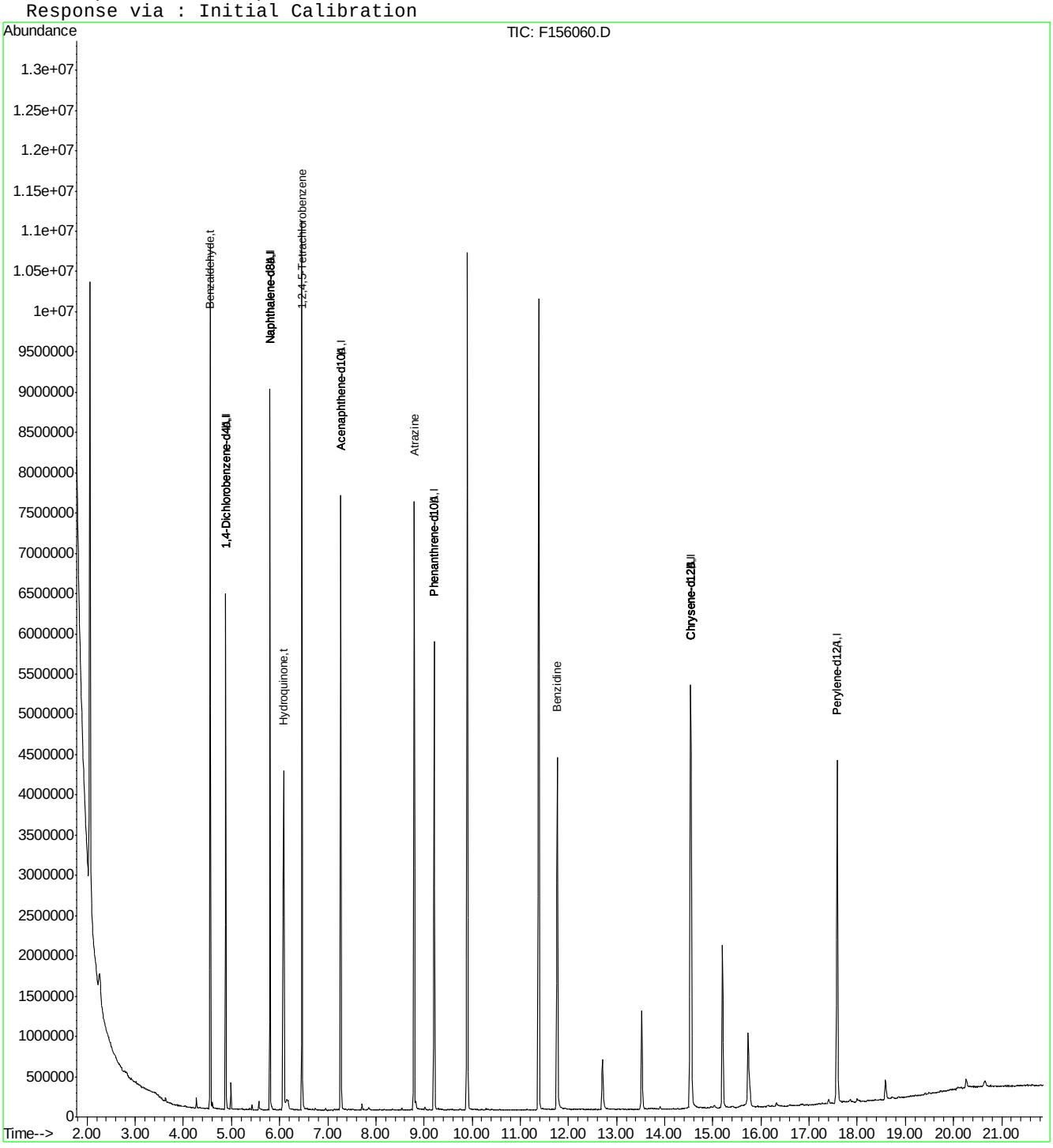
Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1788383	100.00	ppm	94
162) Hydroquinone	6.09	110	2676489	100.00	ppm	97
164) 1,2,4,5-Tetrachlorobenzene	6.47	216	1866229	100.00	ppm	99
166) Atrazine	8.80	200	1246711	100.00	ppm	98
168) Benzidine	11.77	184	2751436	100.00	ppm	99

(#) = 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

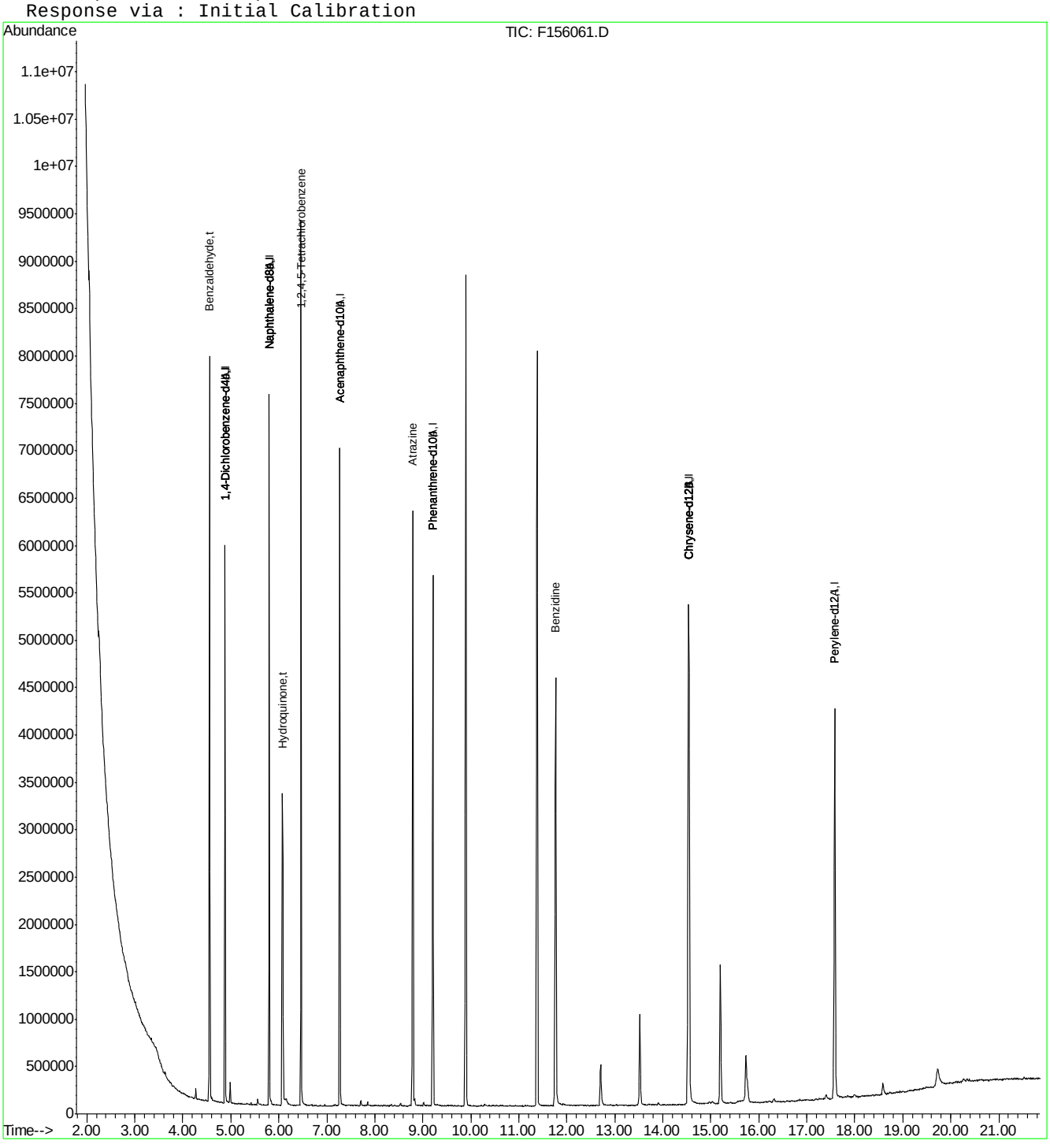
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156061.D MF6563.M Tue Apr 05 10:07:56 2016 RT1

SGS ACCUTEST JC19473

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%			

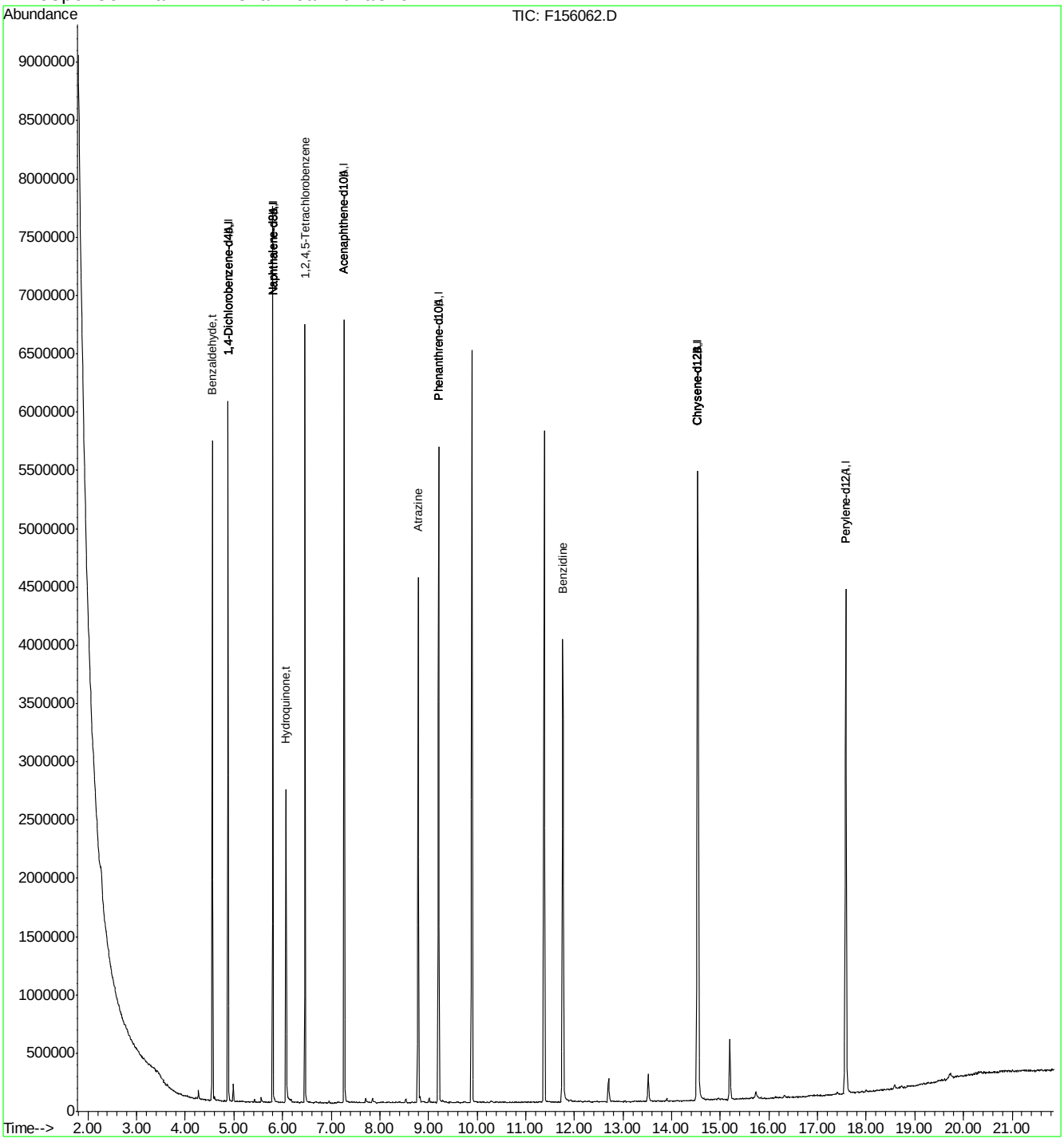
Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1038509	64.42	ppm	95
162) Hydroquinone	6.07	110	1423940	58.47	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	995643	56.31	ppm	98
166) Atrazine	8.79	200	662708	55.26	ppm	97
168) Benzidine	11.76	184	2444021	84.06	ppm	98

(#) = 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 JC19473

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

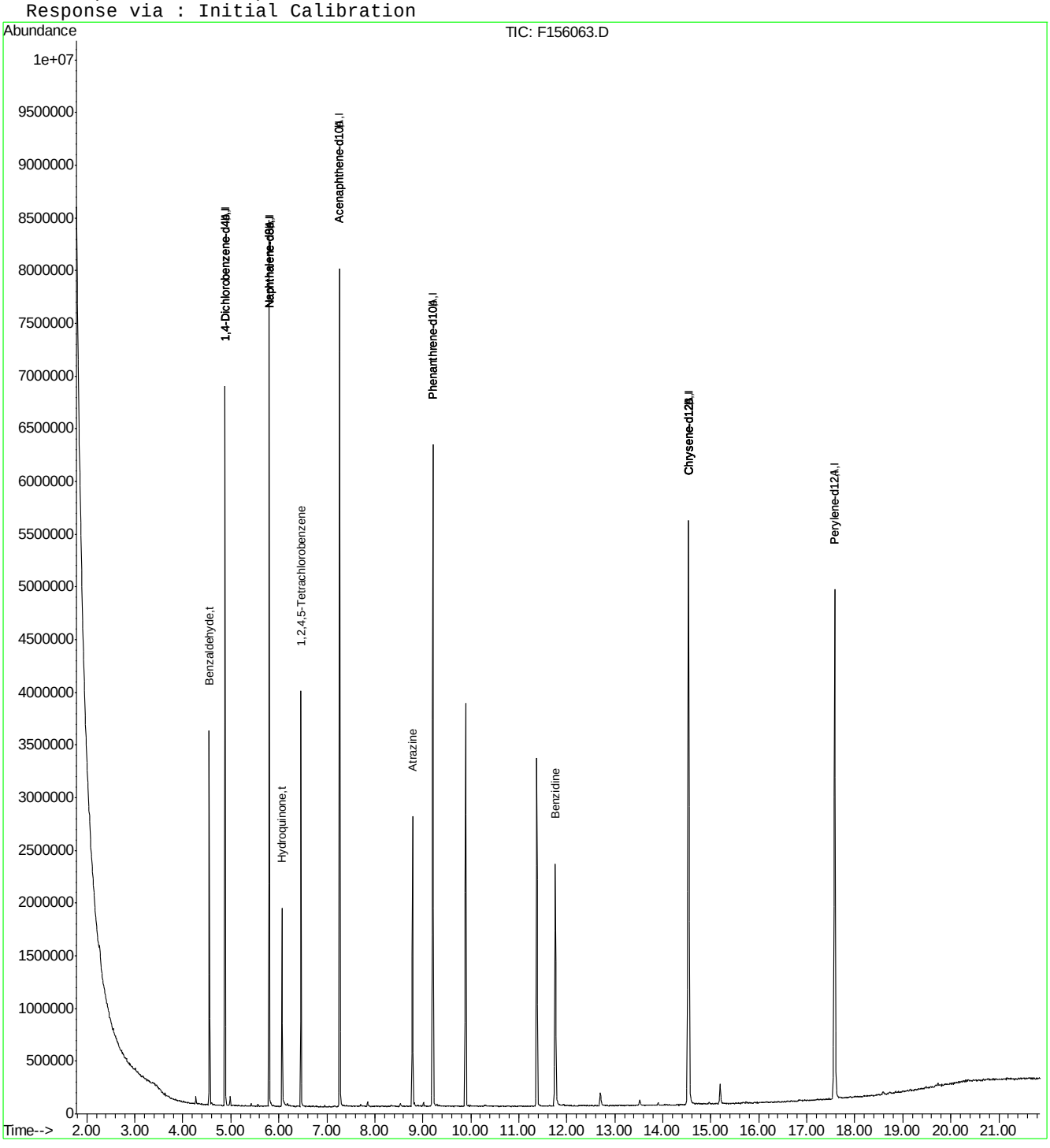
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

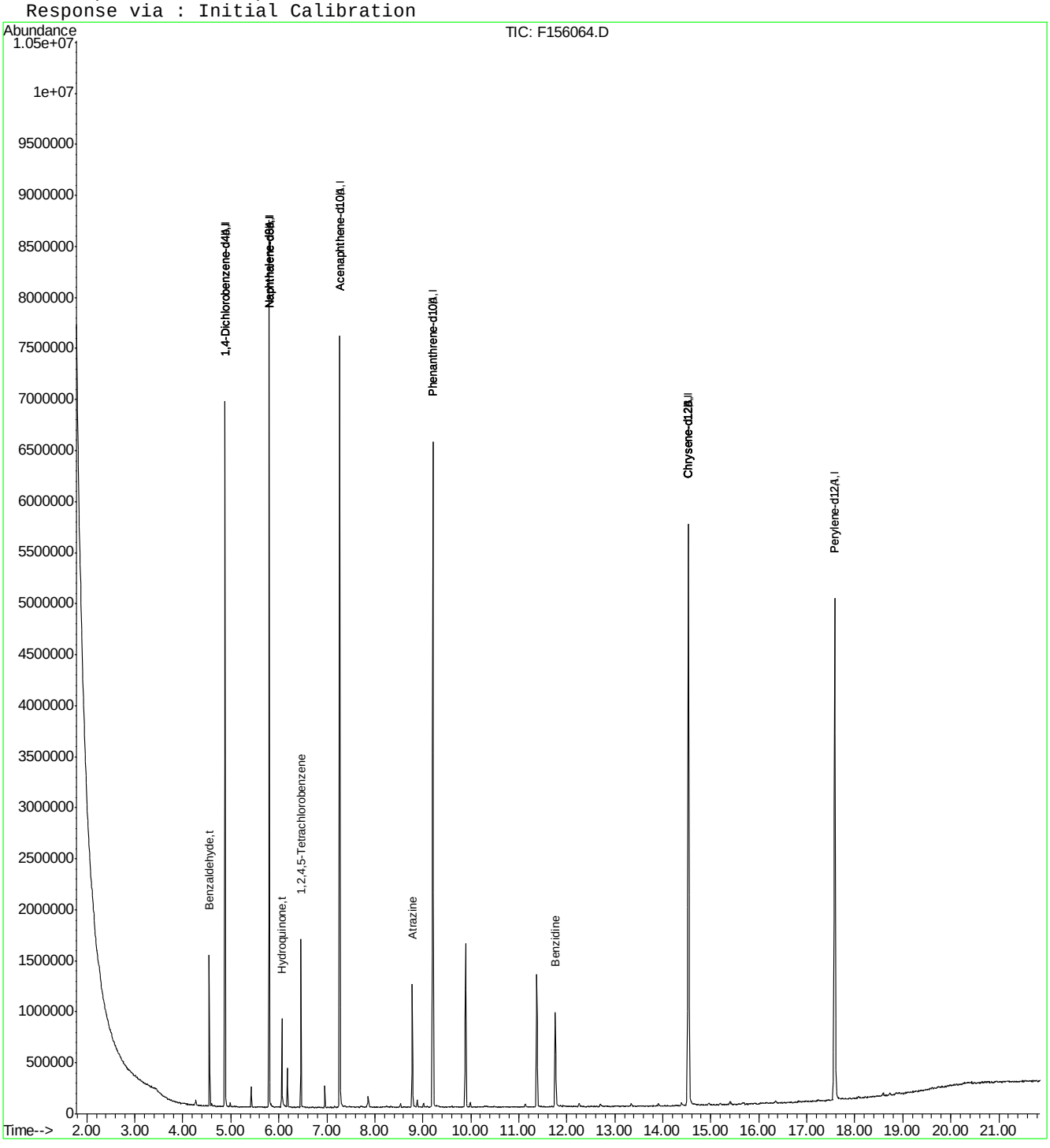
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156064.D MF6563.M Tue Apr 05 10:10:29 2016 RT1

SGS ACCUTEST JC19473

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



F156064.D MF6563.M Tue Apr 05 10:10:29 2016 RT1 Page 2

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%			

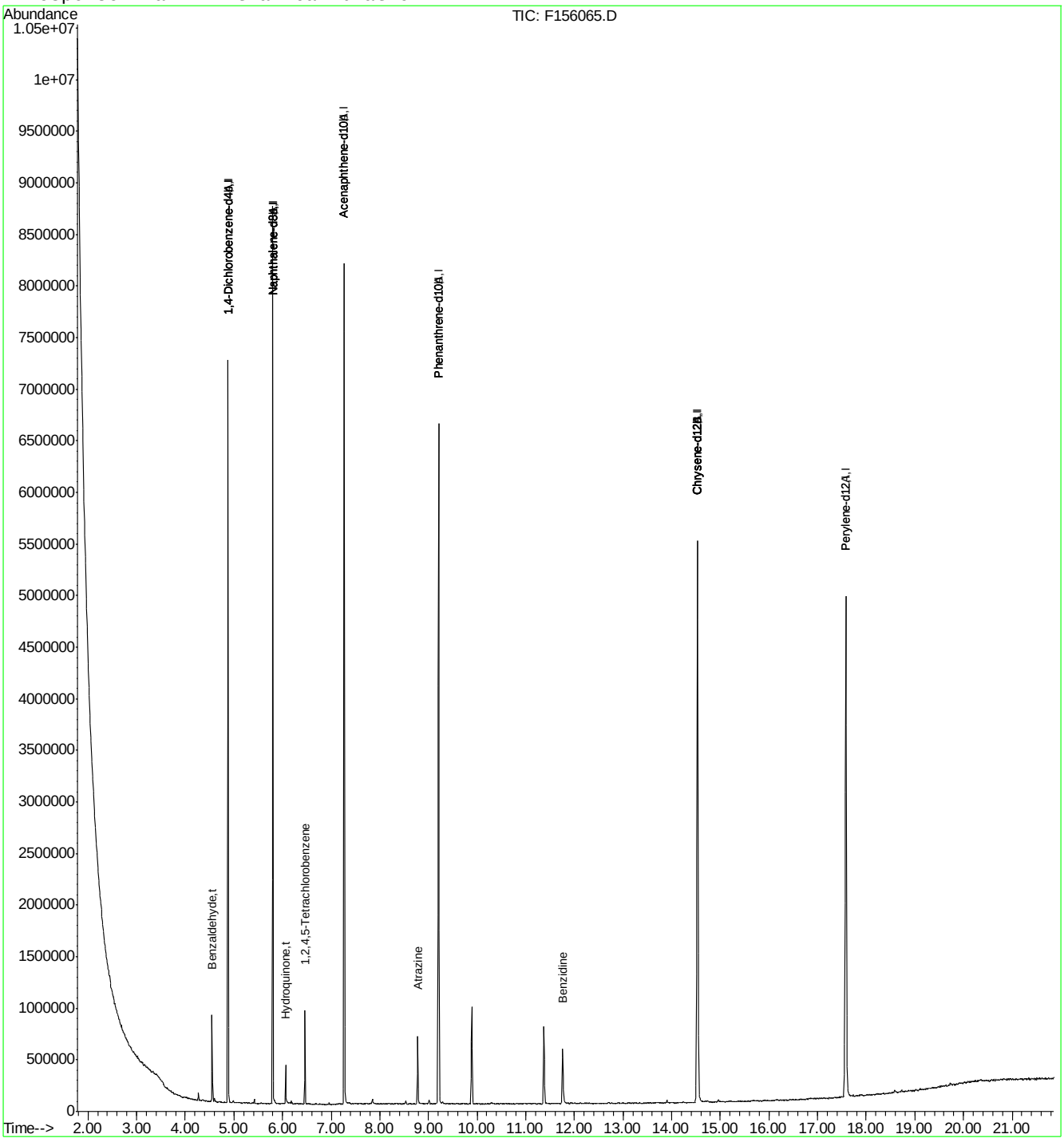
Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	148058	7.75	ppm	91
162) Hydroquinone	6.06	110	146743	5.12	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	152792	7.30	ppm	97
166) Atrazine	8.78	200	90736	6.46	ppm	95
168) Benzidine	11.76	184	331741	9.68	ppm	99

(#) = 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%			

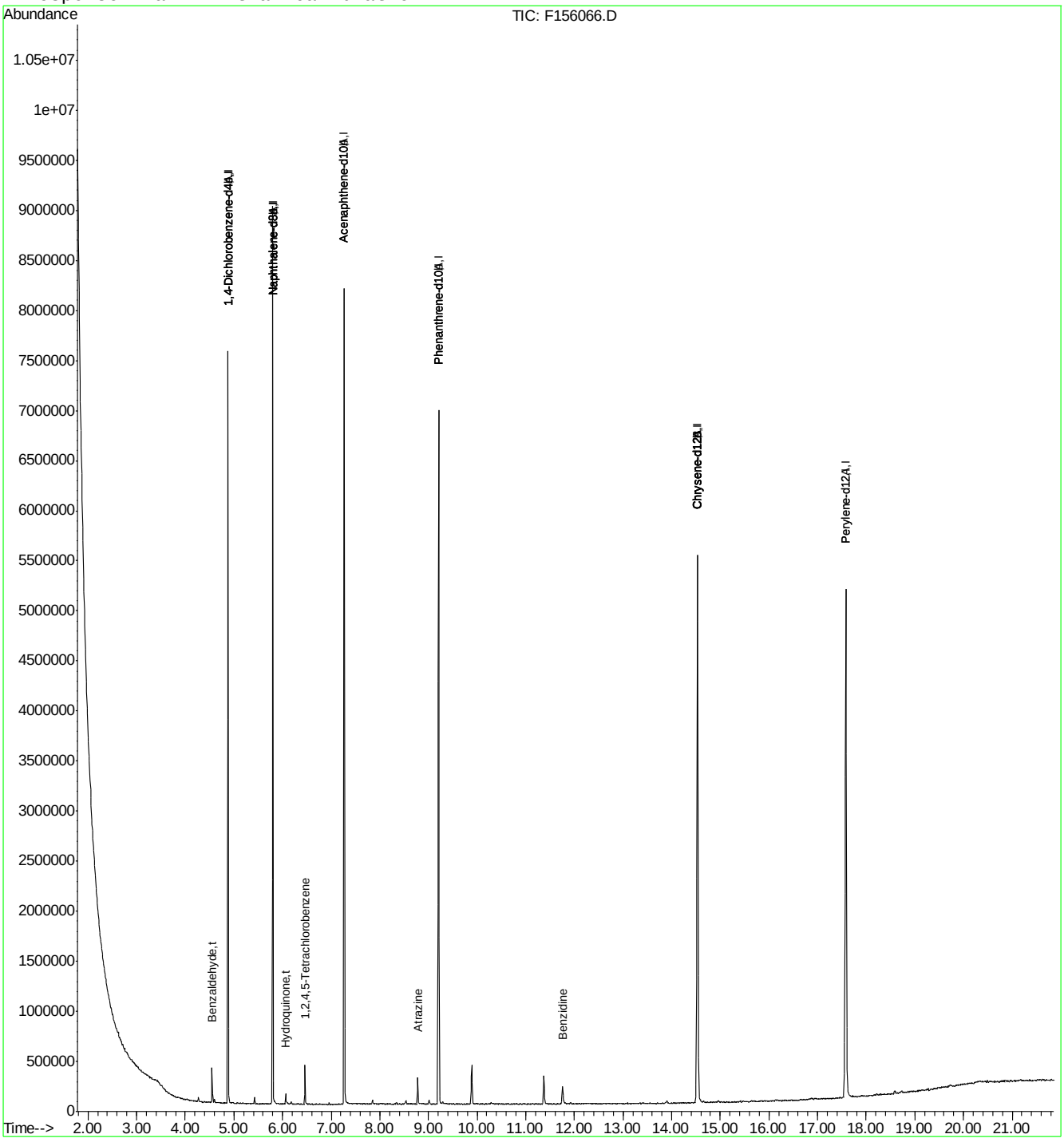
Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	63241	3.22	ppm	94
162) Hydroquinone	6.06	110	48989	1.67	ppm	95
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	62433	2.95	ppm	99
166) Atrazine	8.78	200	35152	2.42	ppm	94
168) Benzidine	11.76	184	117911	3.36	ppm	94

(#) = 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%		

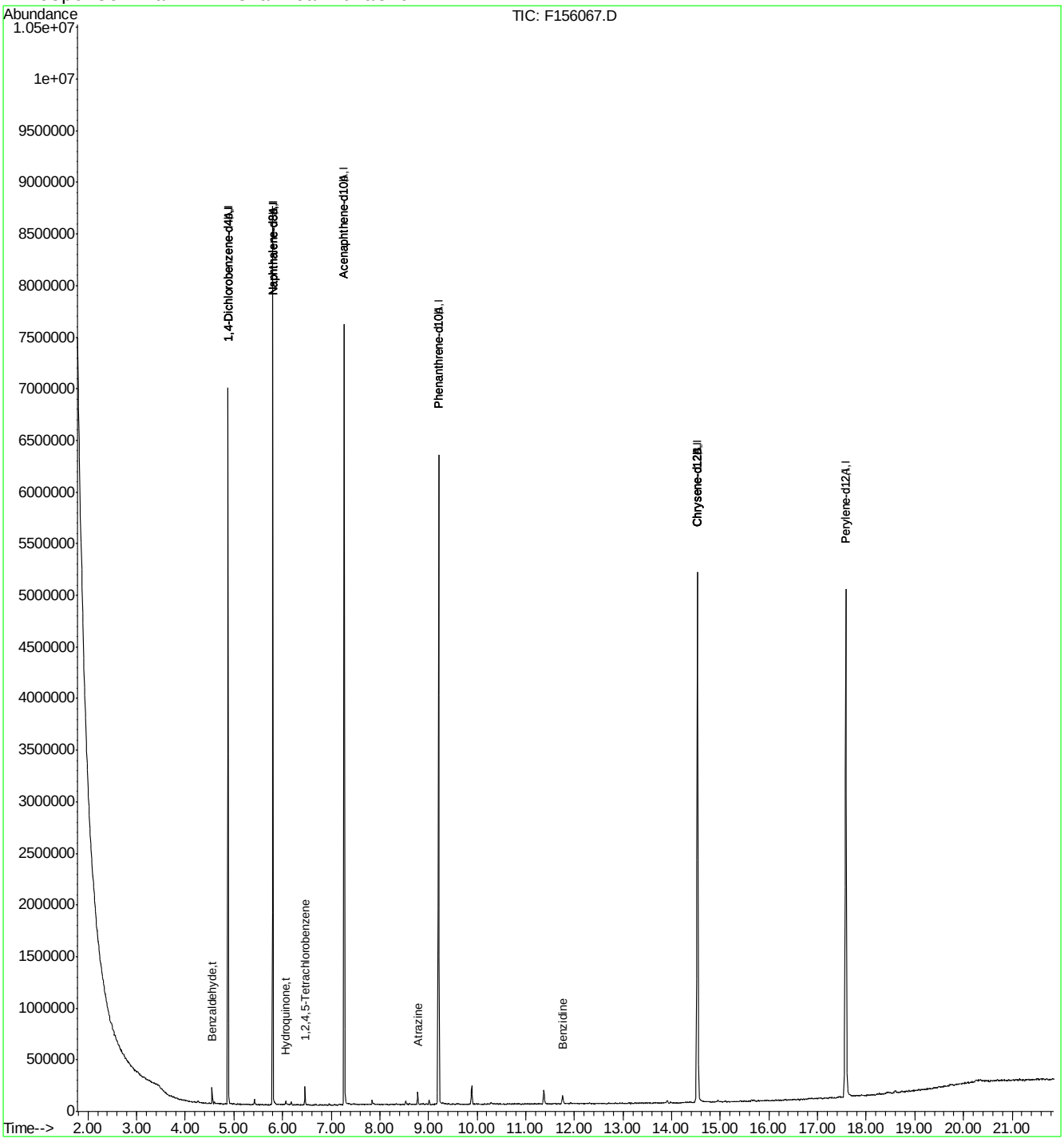
Target Compounds					Qvalue
160) Benzaldehyde	4.56	105	30190	1.64 ppm	94
162) Hydroquinone	6.06	110	21604	0.78 ppm	94
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	29618	1.49 ppm	95
166) Atrazine	8.78	200	16149	1.19 ppm	98
168) Benzidine	11.76	184	50022	1.51 ppm	97

(#) = 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

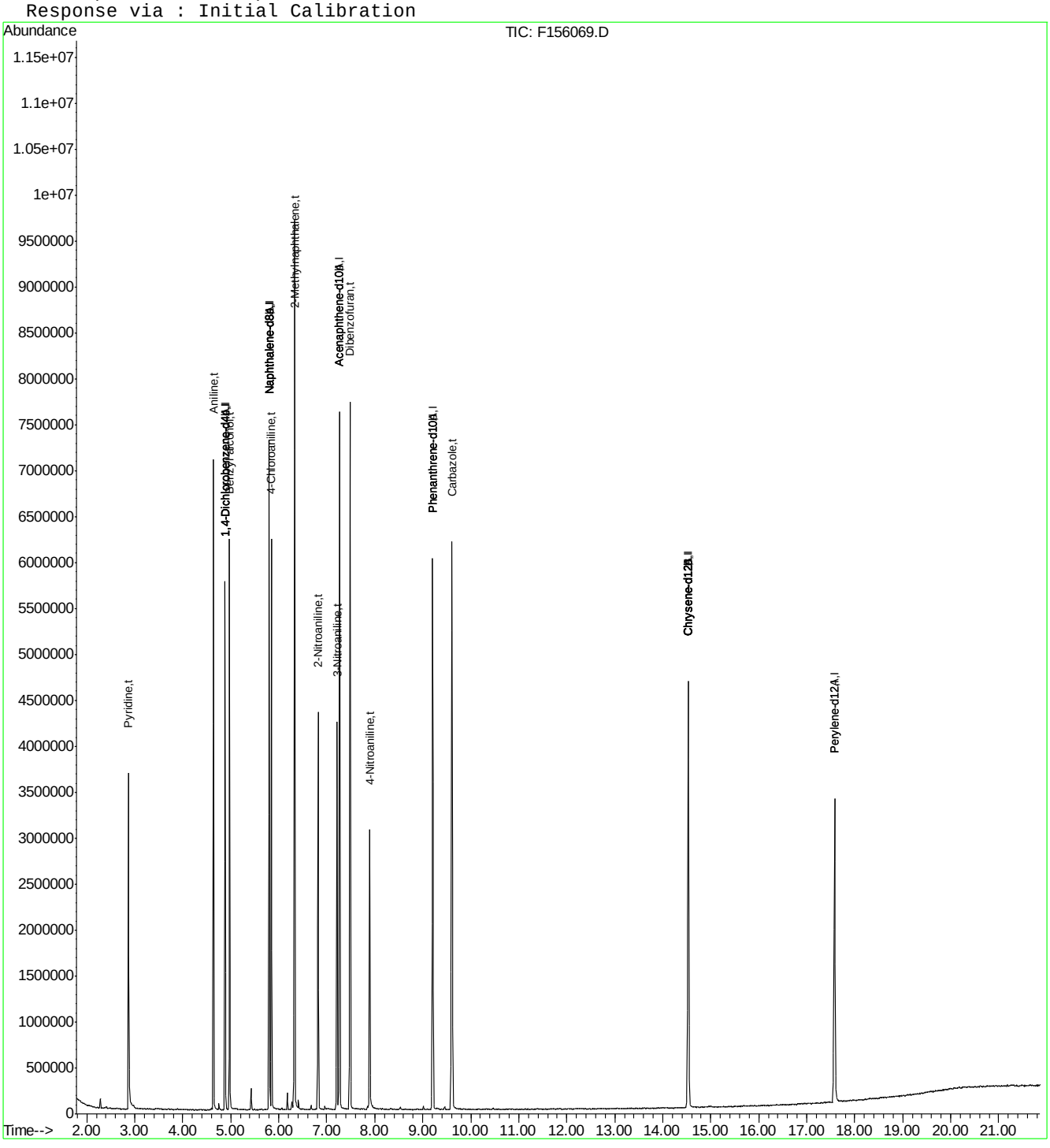
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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 JC19473

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

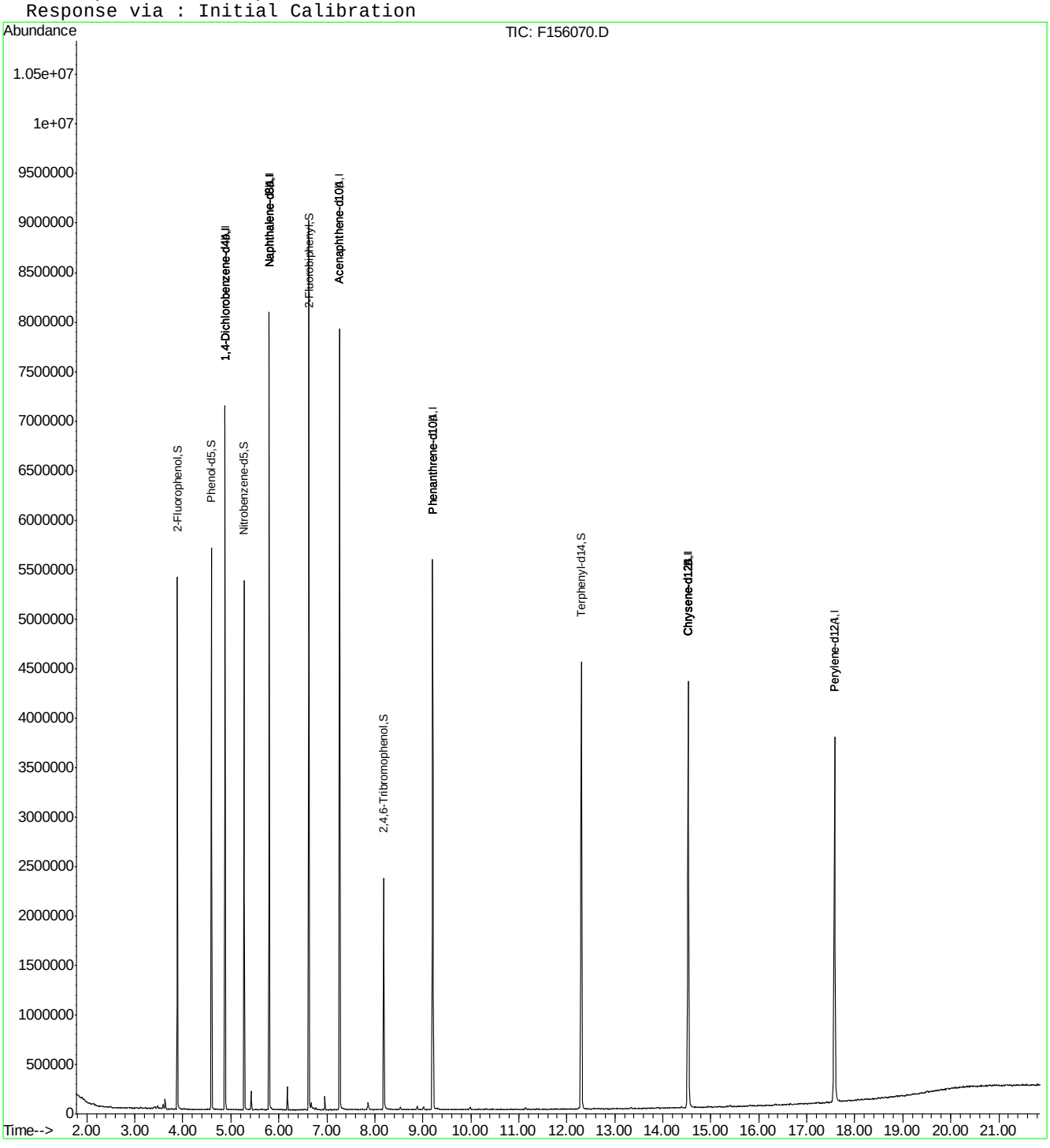
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

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

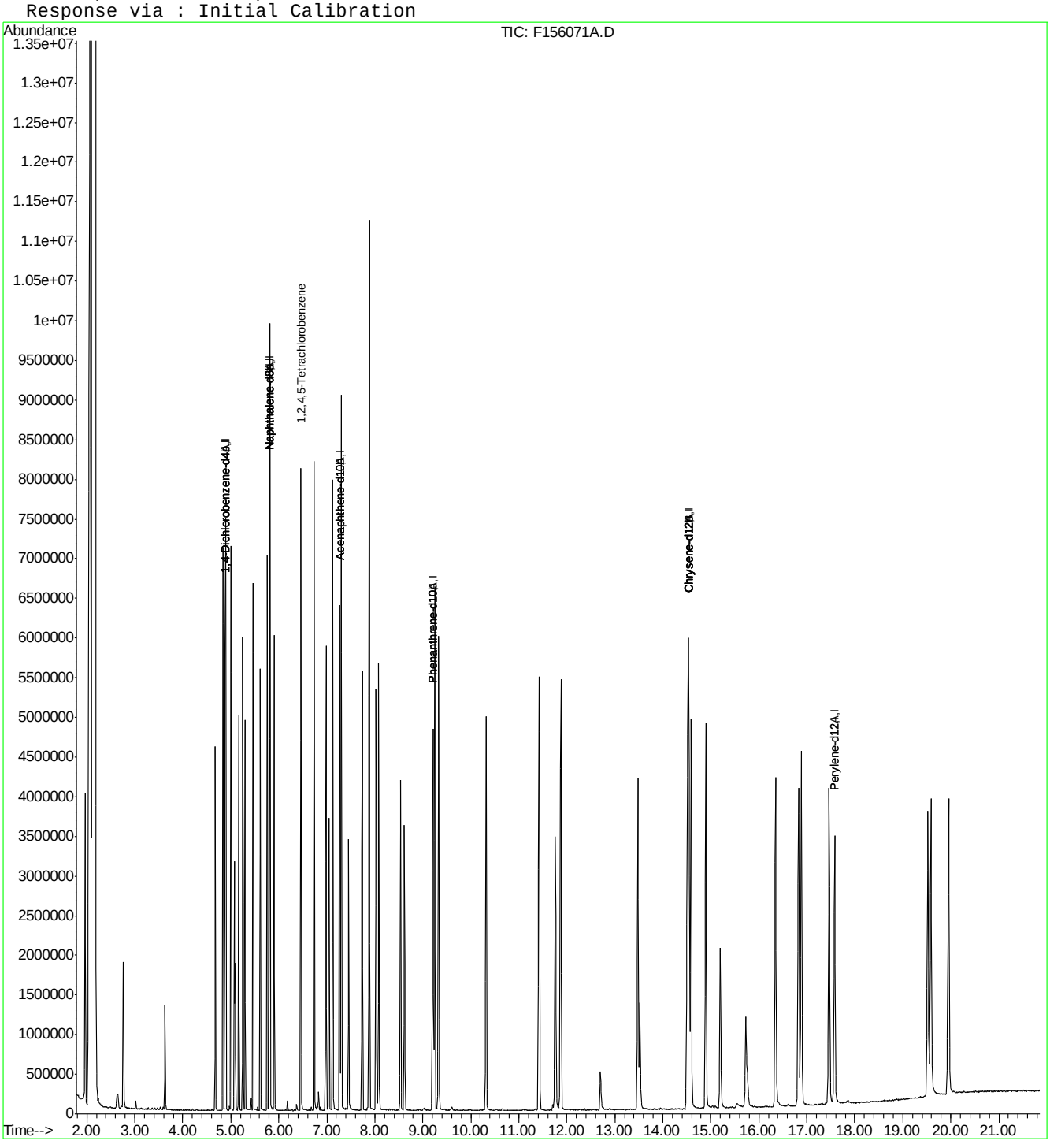
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

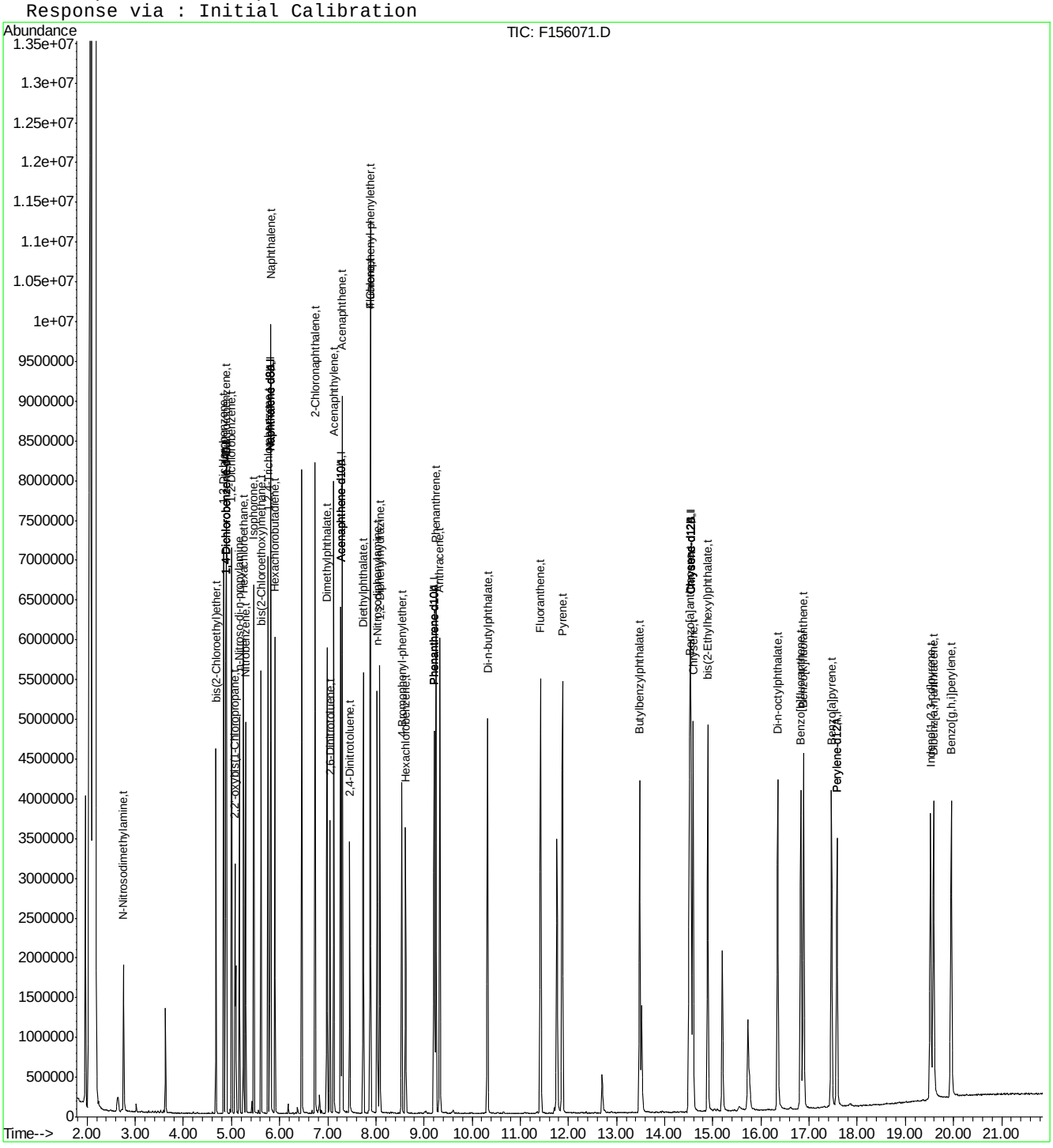
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



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

SGS ACCUTEST JC19473

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

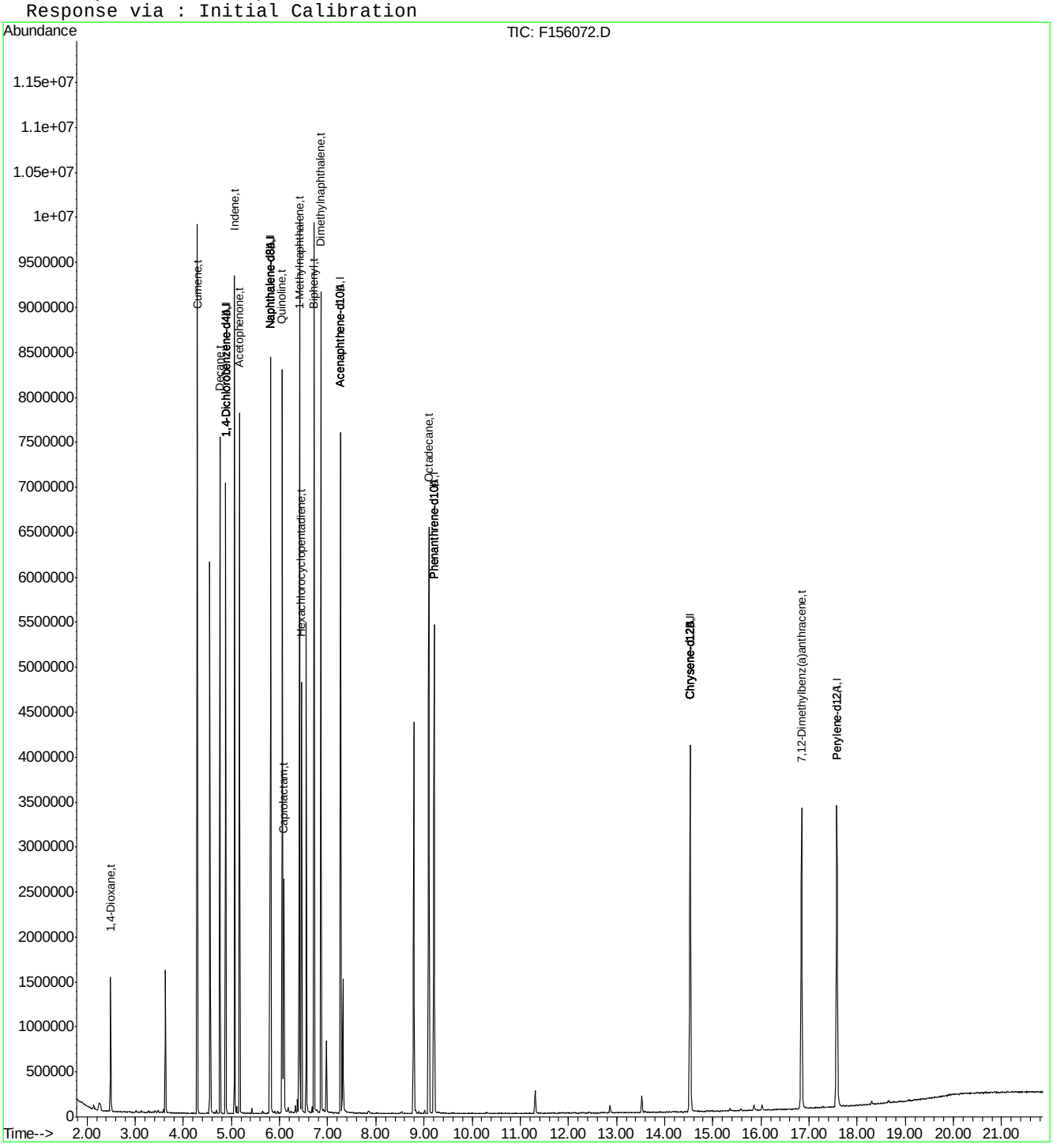
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156072.D MF6563.M Thu Apr 07 09:52:51 2016 RT1

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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

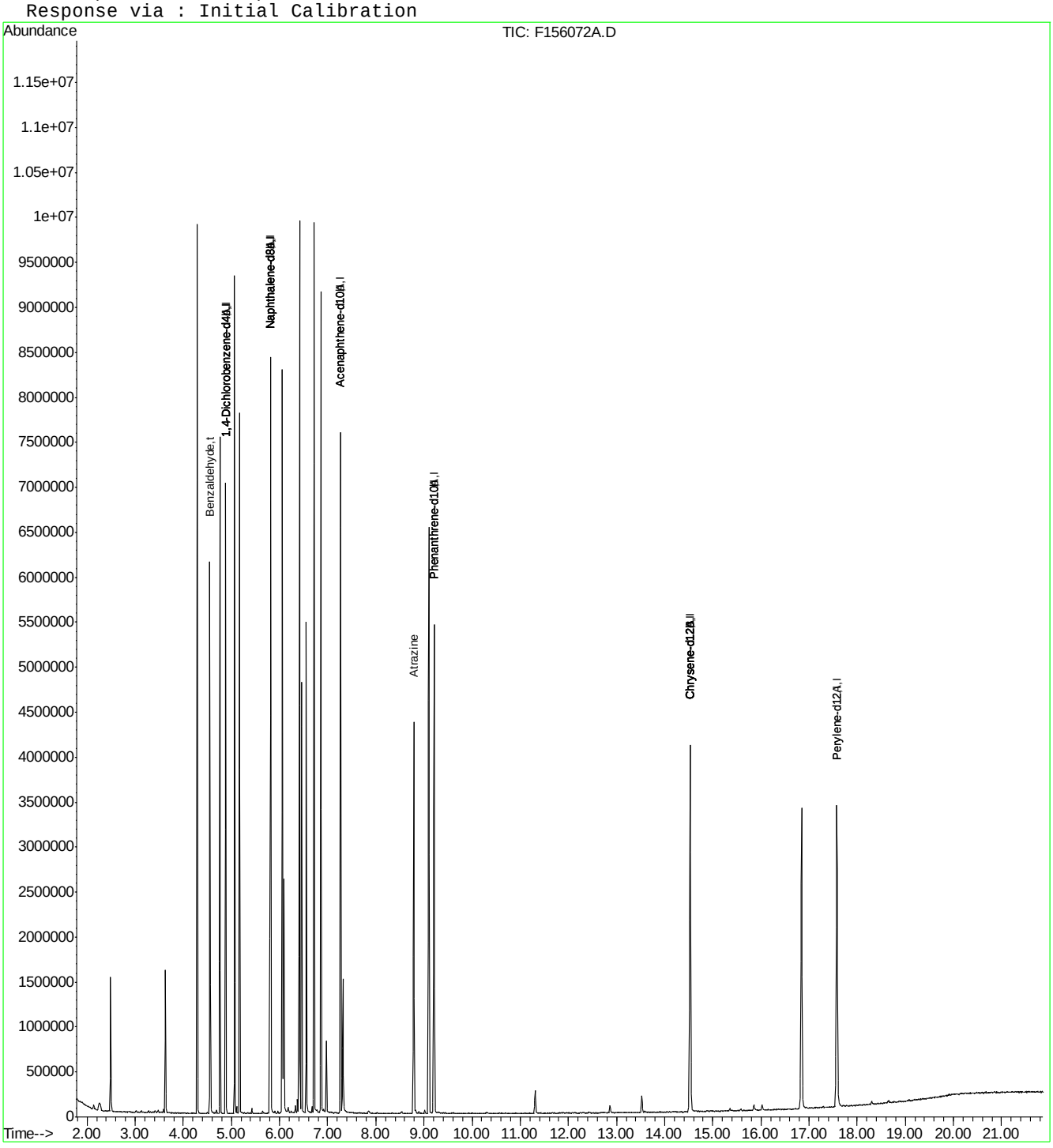
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



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

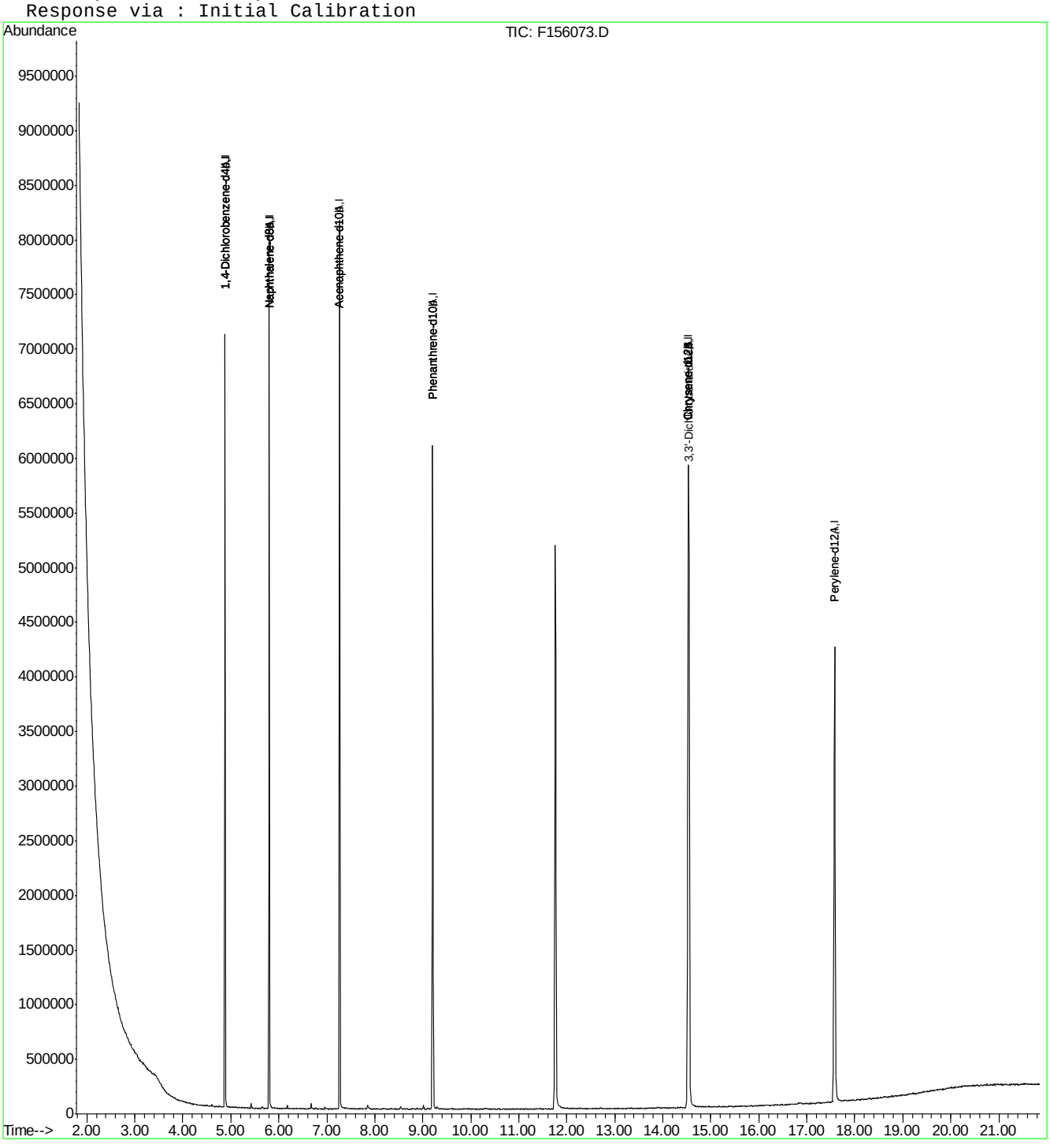
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156073.D MF6563.M Thu Apr 07 09:53:52 2016 RT1

SGS ACCUTEST JC19473

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%			

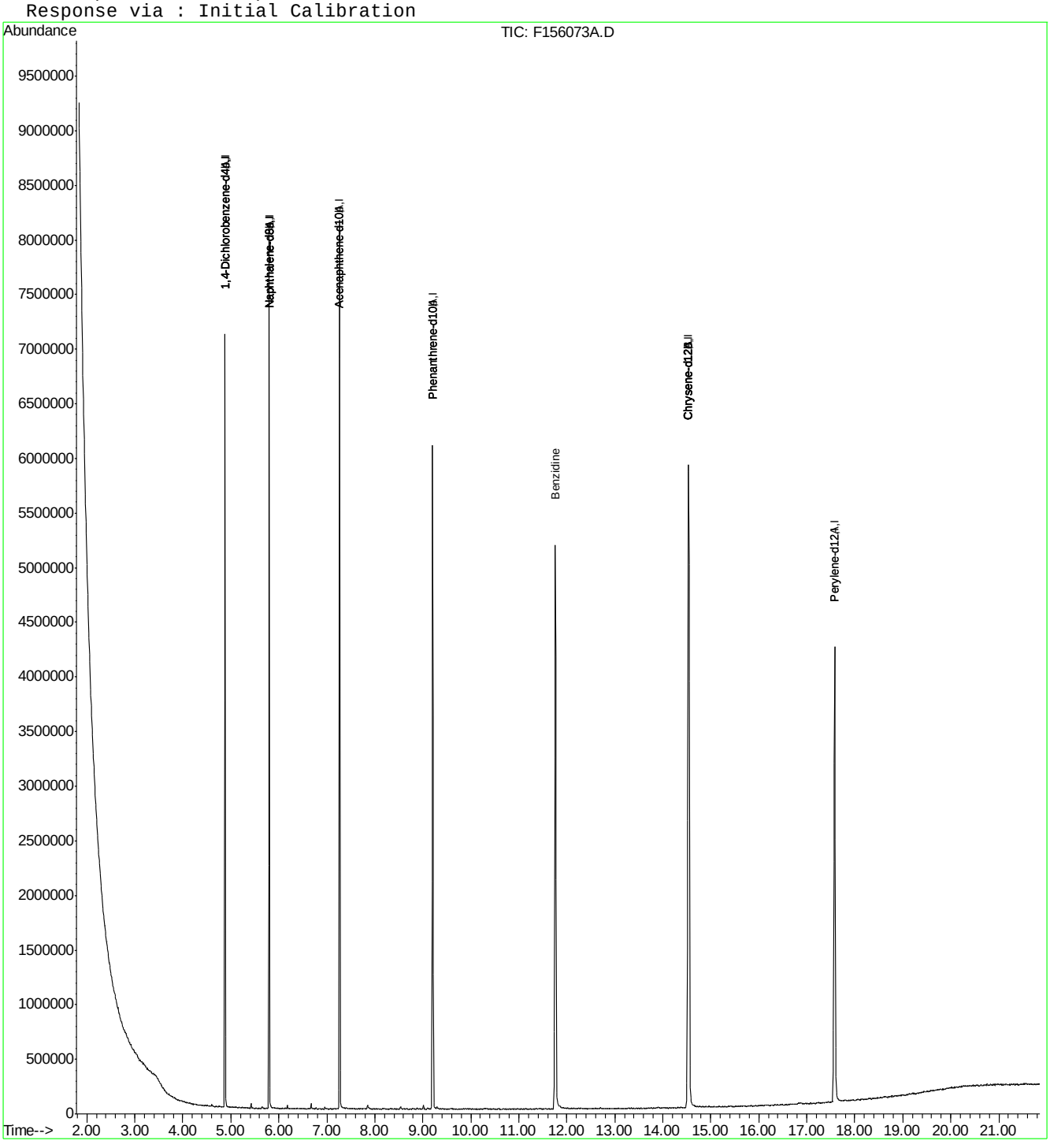
Target Compounds						Qvalue
168) Benzidine	11.76	184	3118781	65.60	ppm	99

(#) = 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

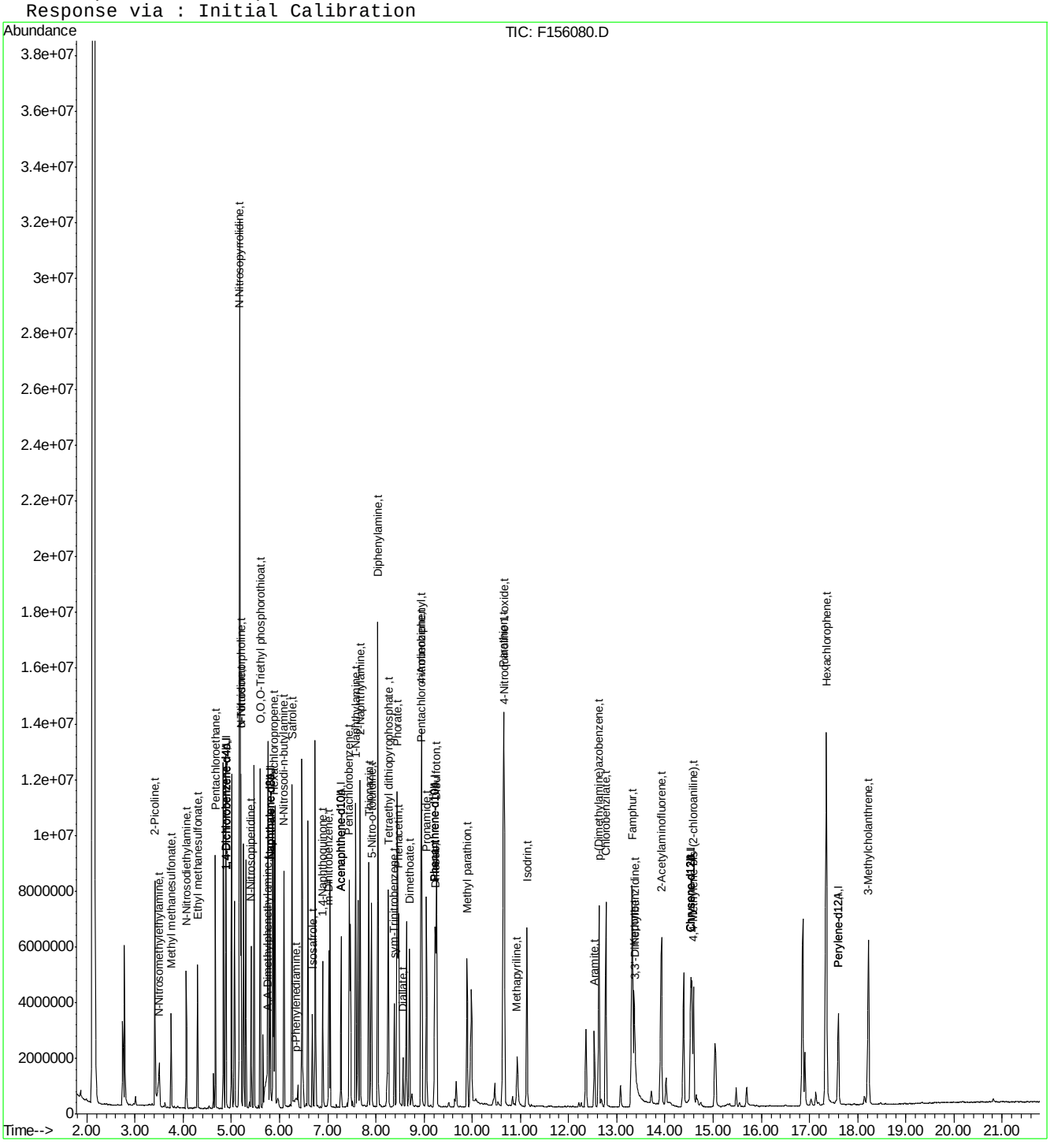
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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 JC19473

Manual Integration Approval Summary

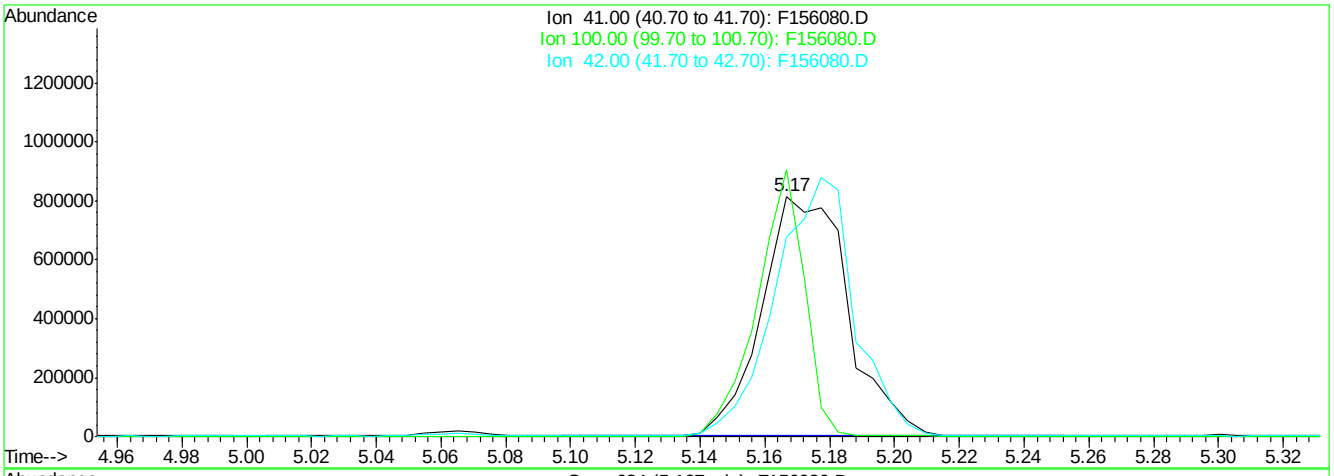
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156080.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 14:12	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

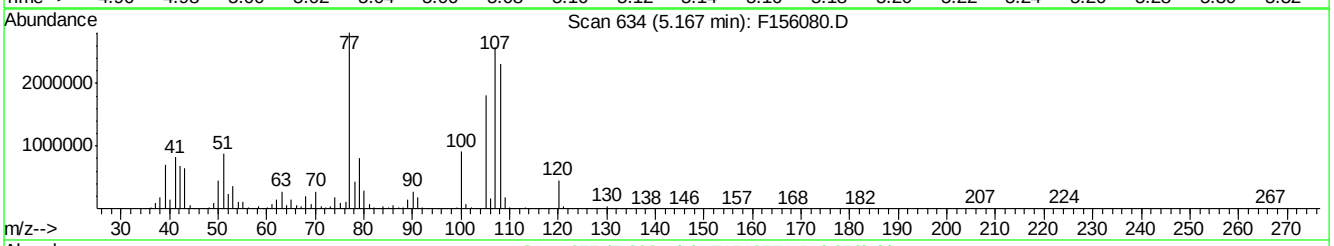
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.17	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.74	Split peak
p-Phenylenediamine	106-50-3		6.34	Split peak

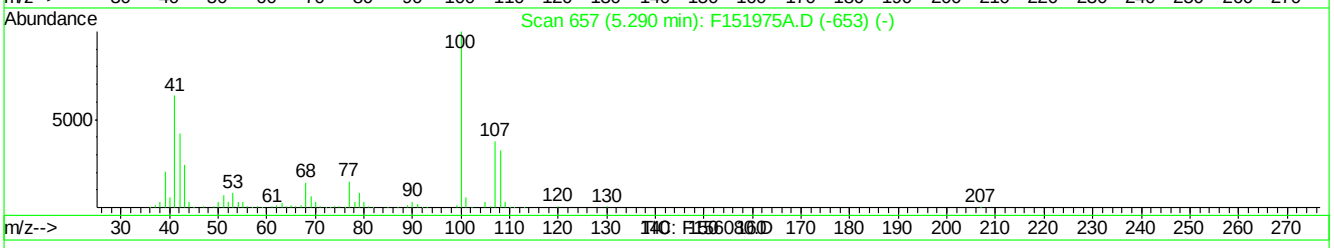
Quantitation Report (Qedit)

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

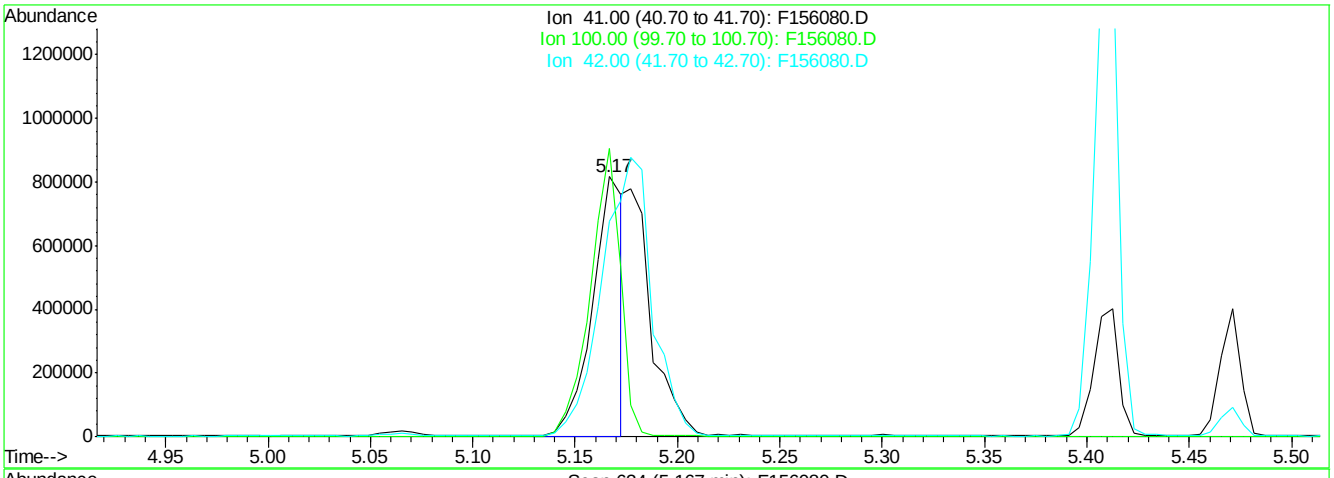
F156080.D MF6563AP9.M Fri Apr 08 15:45:31 2016 RT1

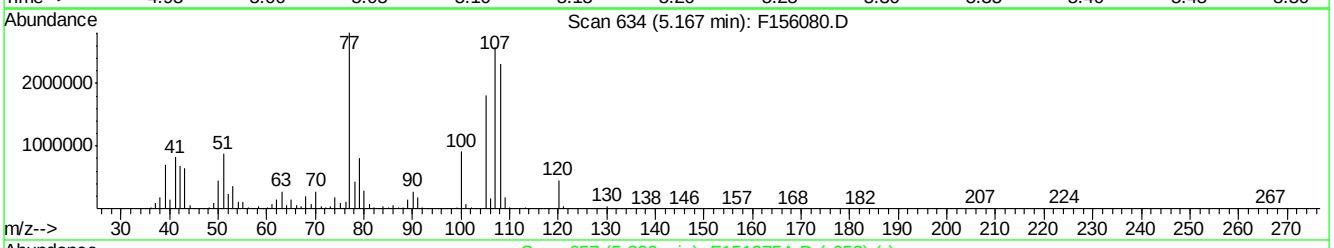
SGS ACCUTEST JC19473

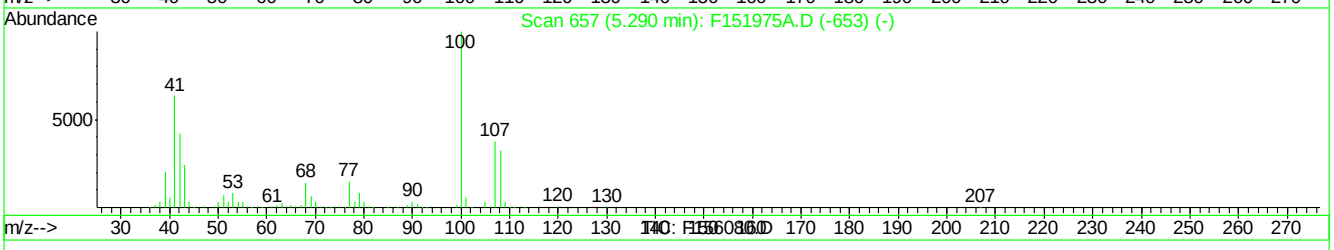
Quantitation Report (Qedit)

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

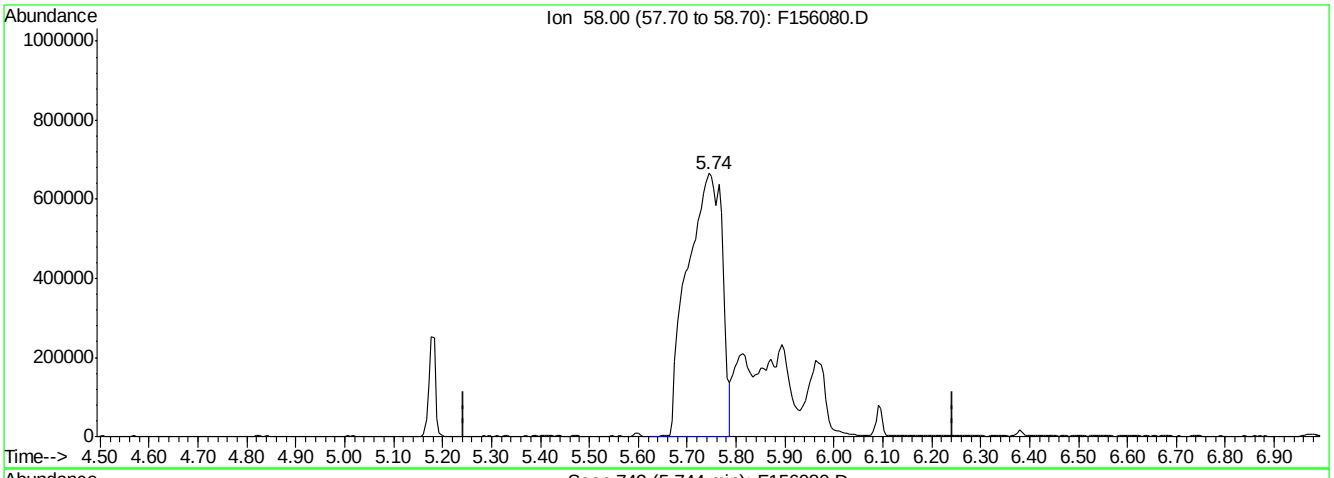
Ion	Exp%	Act%
41.00	100	100
100.00	153.60	110.94#
42.00	69.80	82.92
0.00	0.00	0.00

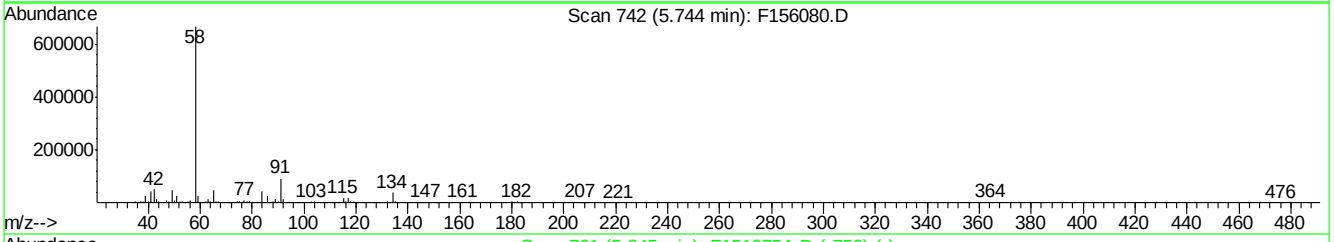
F156080.D MF6563AP9.M Fri Apr 08 15:46:27 2016 RT1

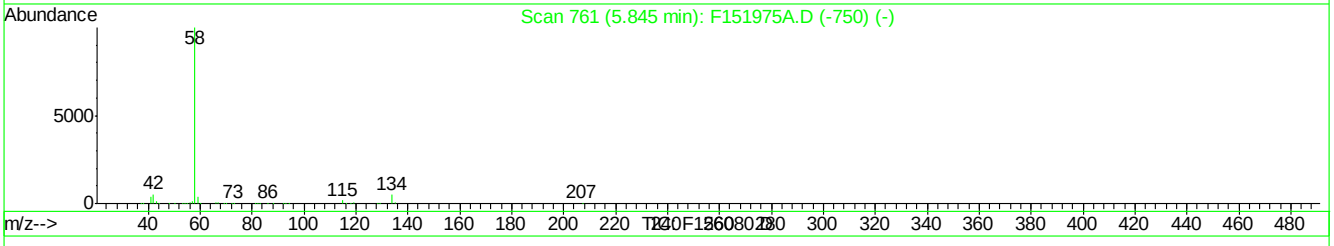
Quantitation Report (Qedit)

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

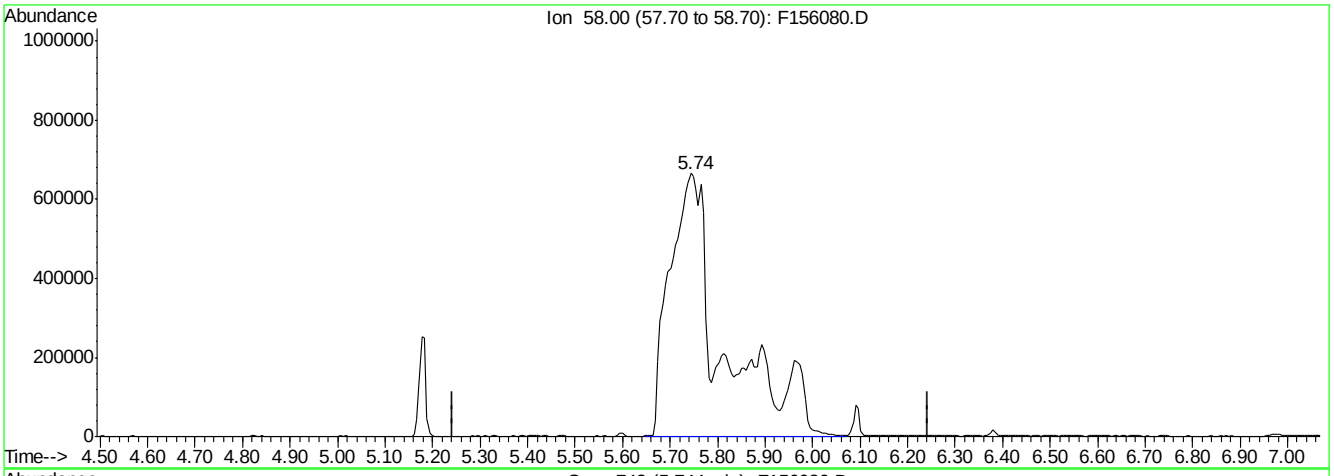
F156080.D MF6563AP9.M Fri Apr 08 15:46:35 2016 RT1

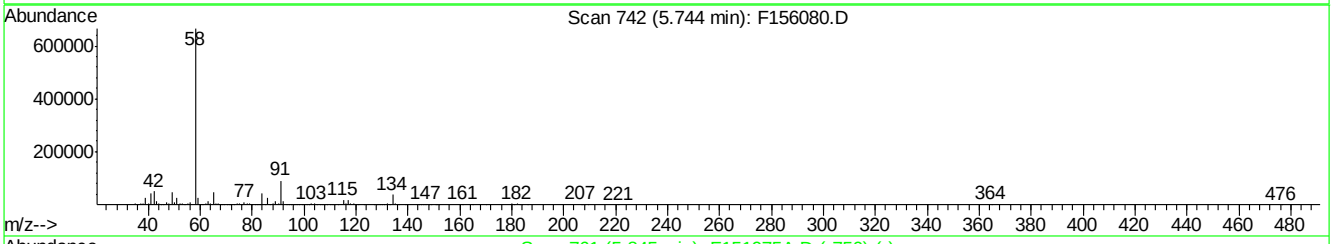
SGS ACCUTEST JC19473

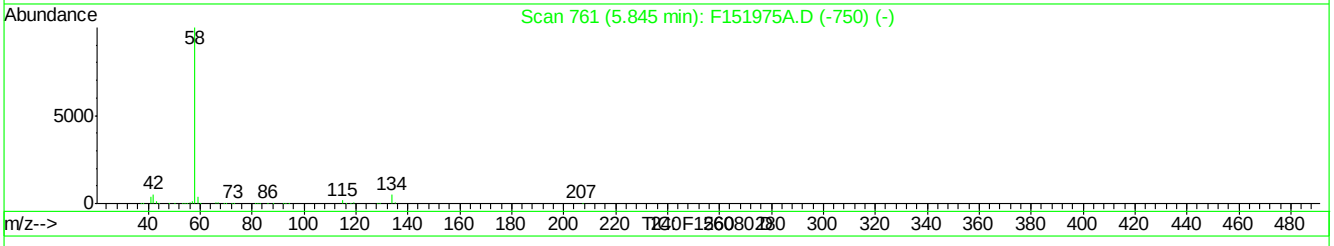
Quantitation Report (Qedit)

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

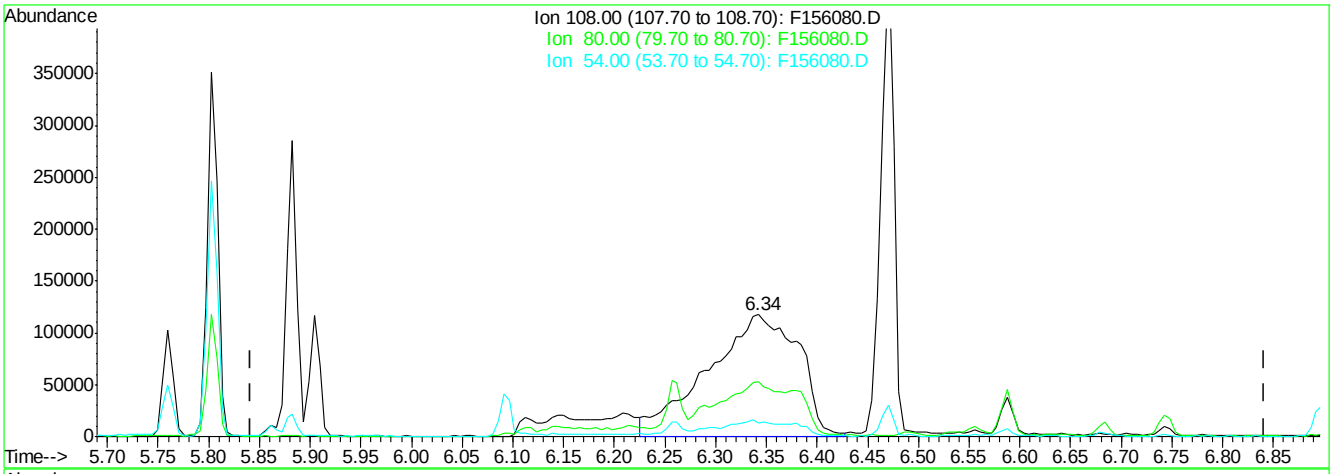
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

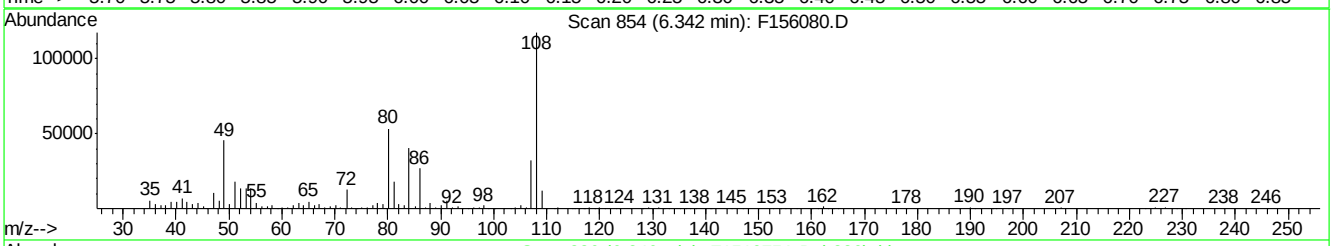
F156080.D MF6563AP9.M Fri Apr 08 15:47:45 2016 RT1

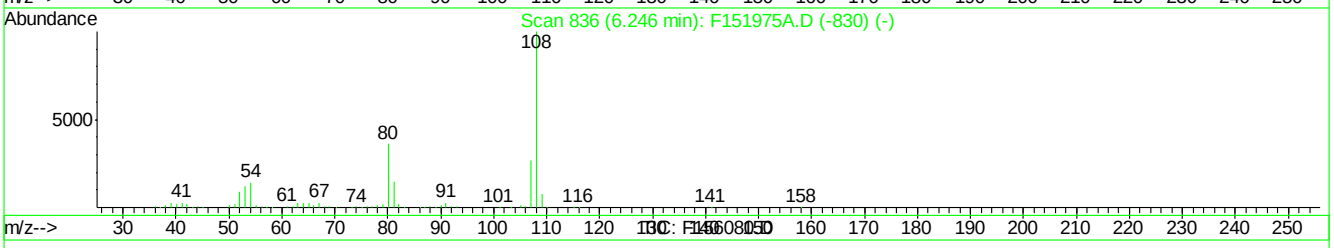
Quantitation Report (Qedit)

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

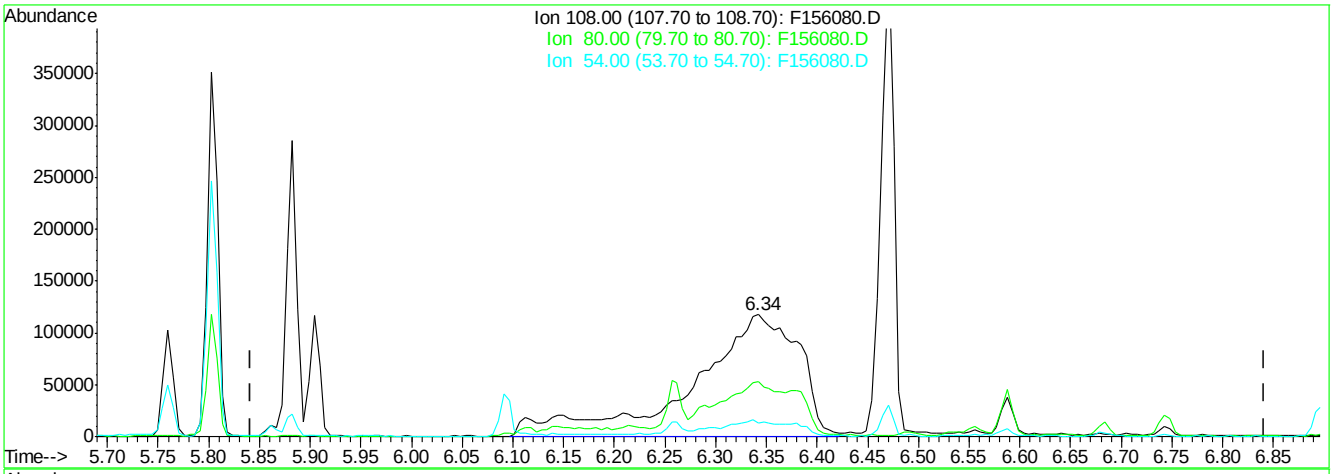
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	45.13
54.00	13.10	10.59
0.00	0.00	0.00

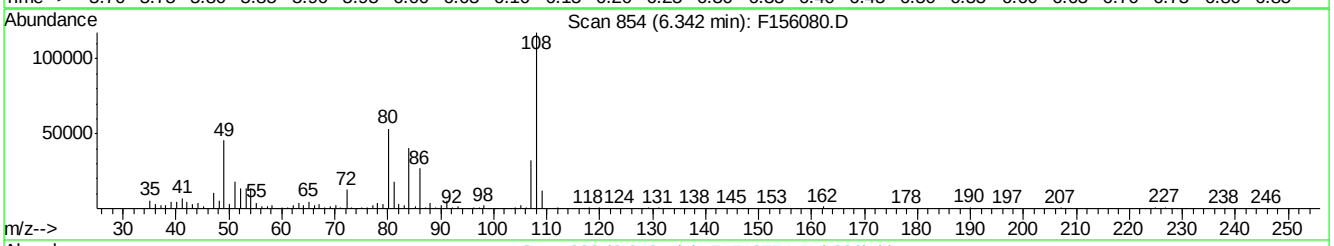
F156080.D MF6563AP9.M Fri Apr 08 15:47:54 2016 RT1

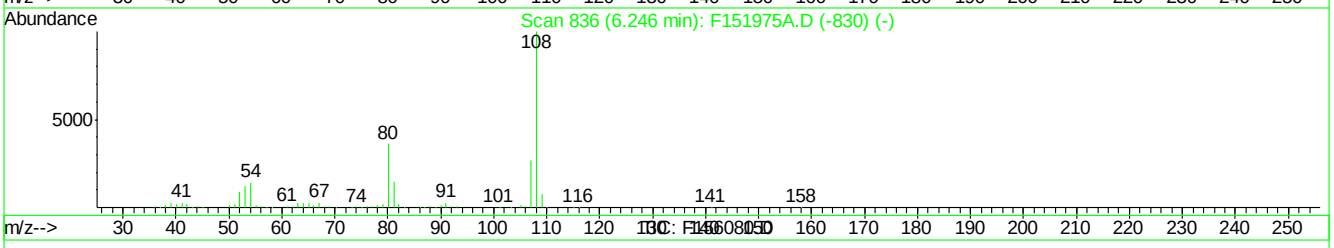
Quantitation Report (Qedit)

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

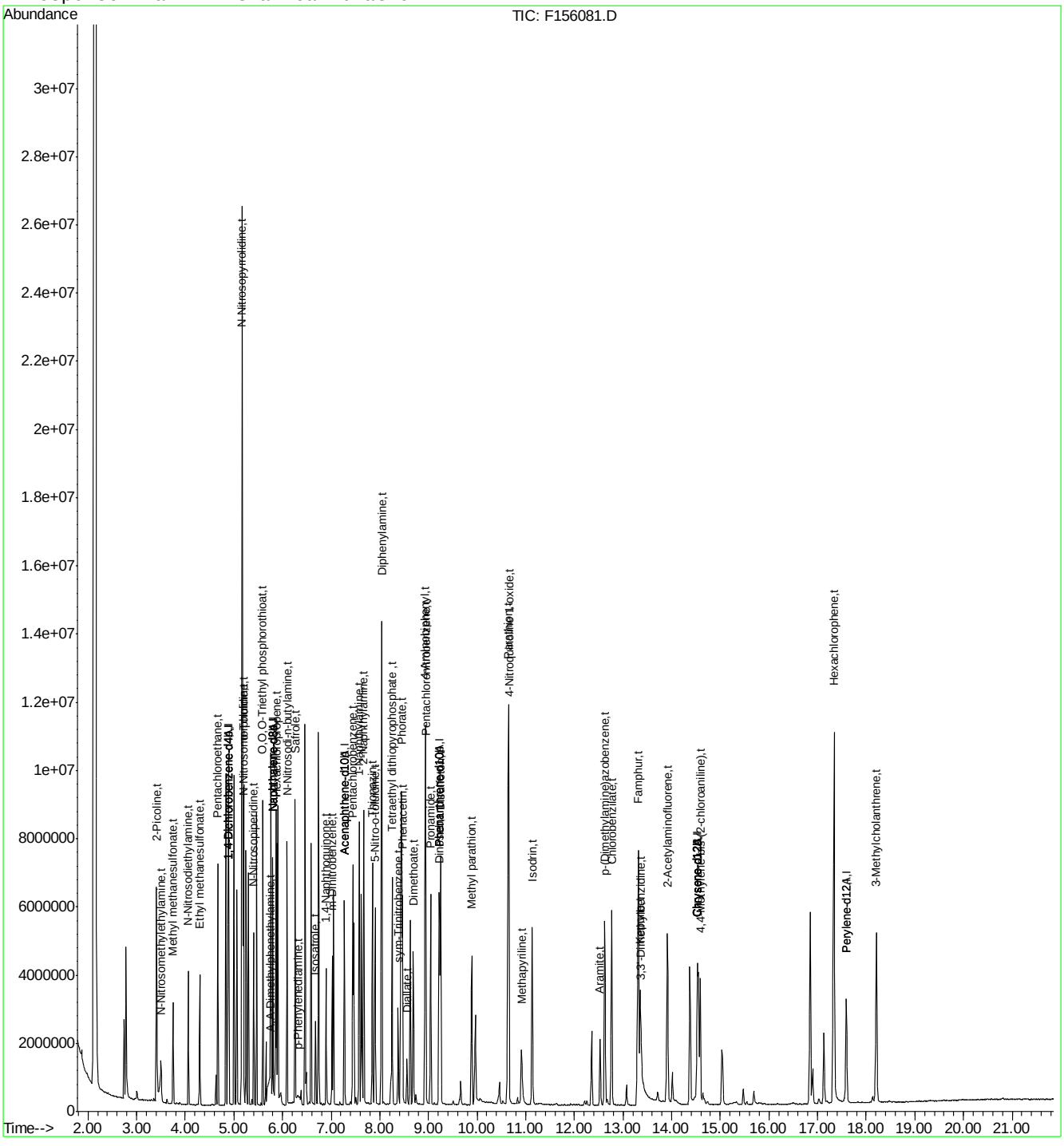
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

Manual Integration Approval Summary

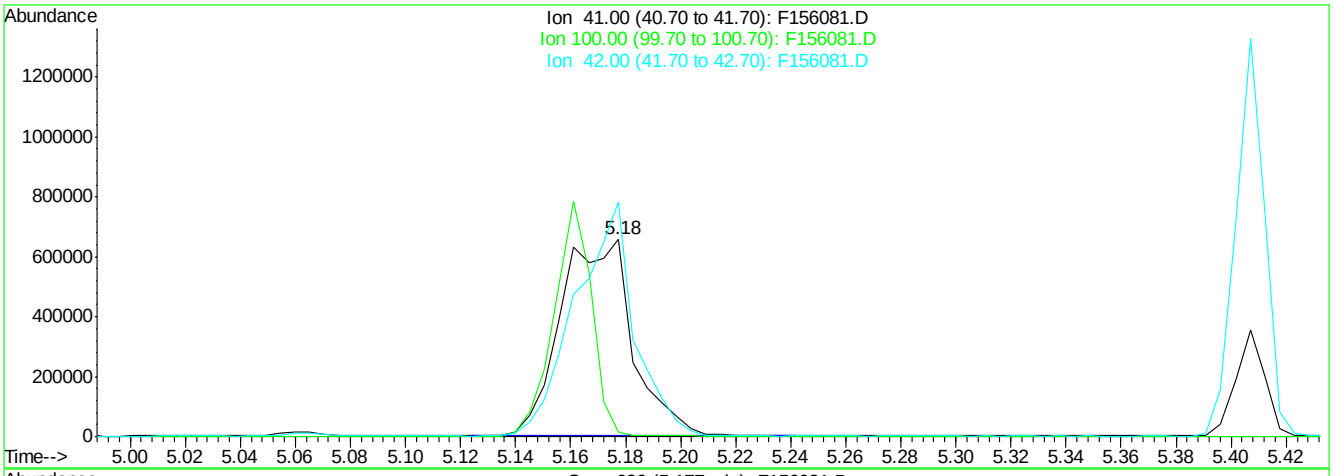
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156081.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 14:41	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

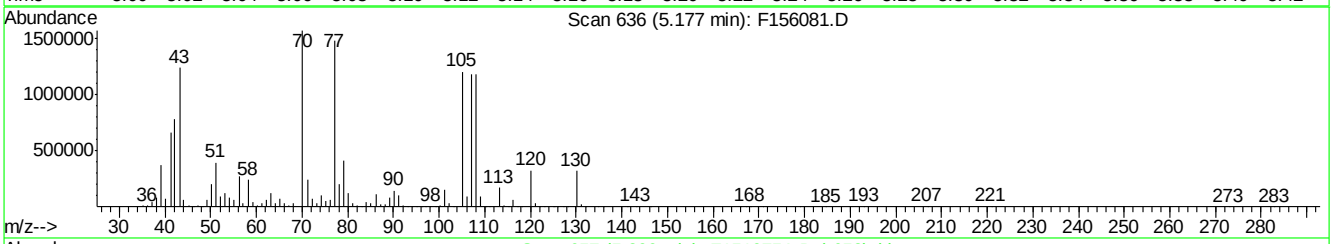
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.16	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.74	Split peak
p-Phenylenediamine	106-50-3		6.32	Split peak

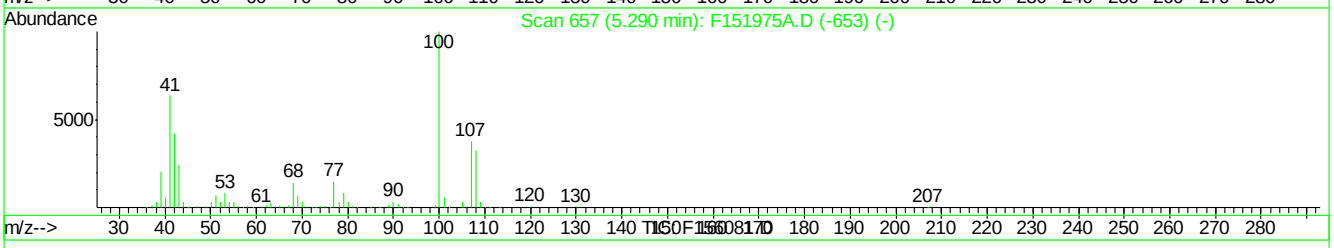
Quantitation Report (Qedit)

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

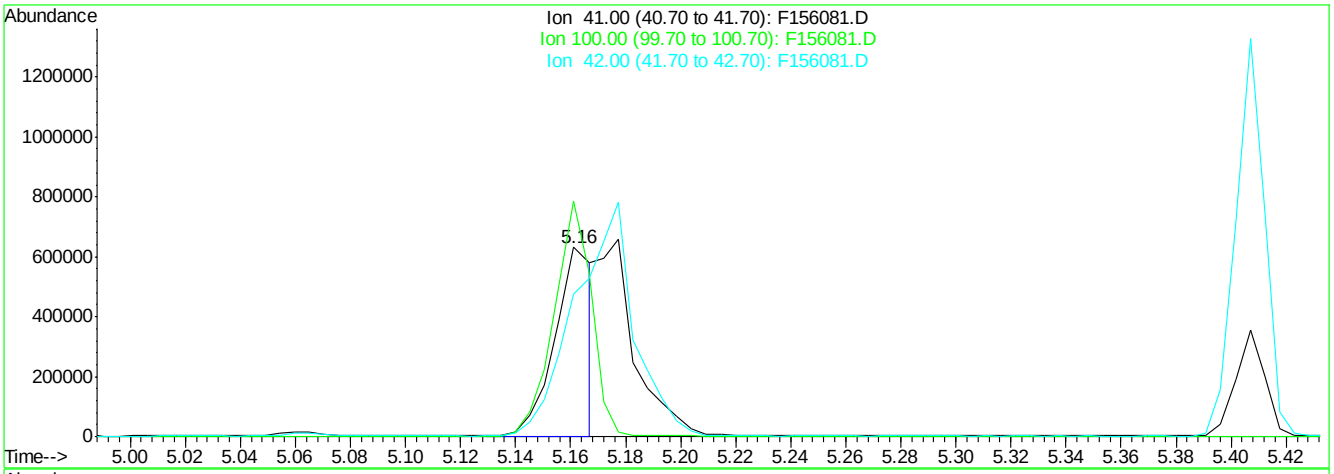
F156081.D MF6563AP9.M Fri Apr 08 15:49:56 2016 RT1

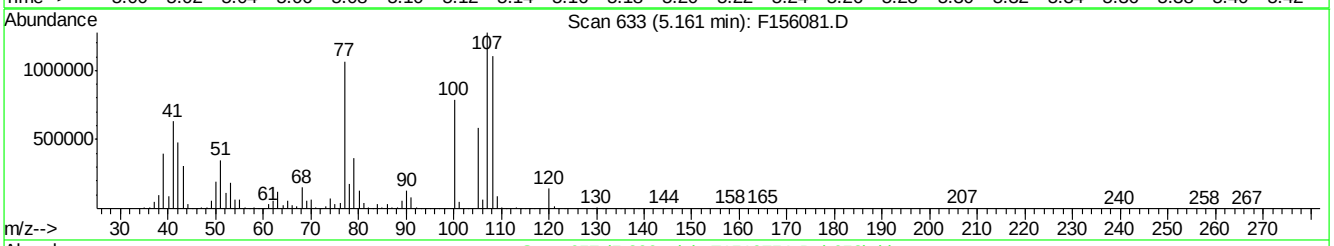
SGS ACCUTEST JC19473

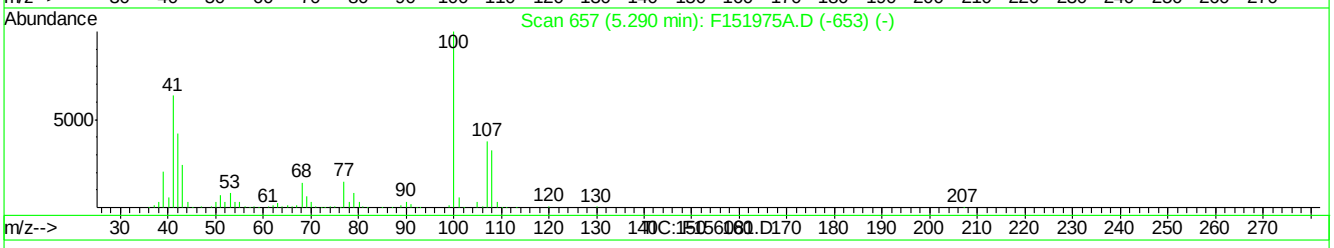
Quantitation Report (Qedit)

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

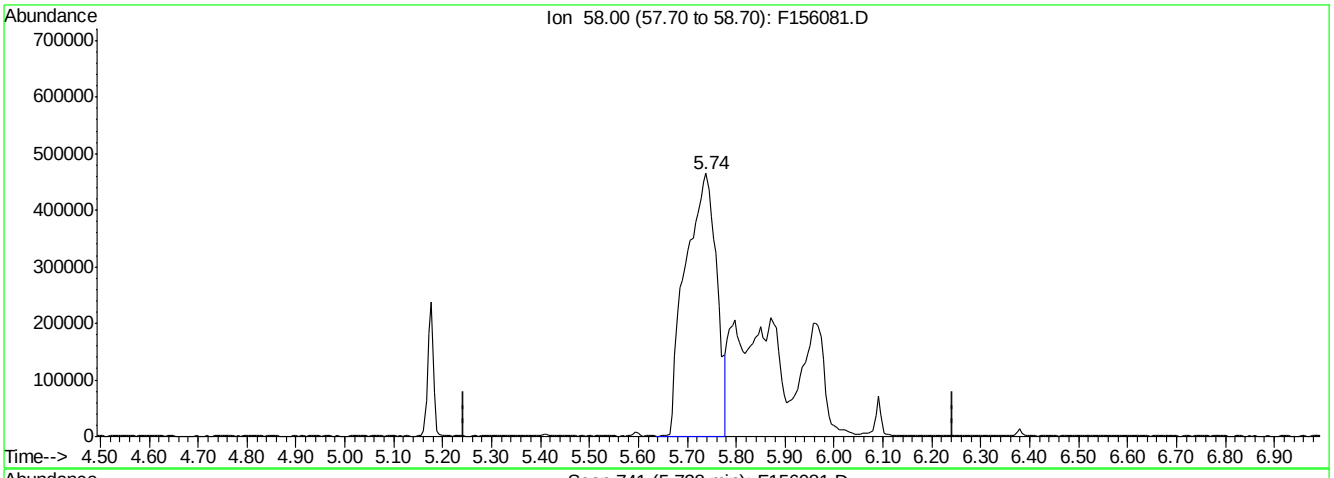
F156081.D MF6563AP9.M Fri Apr 08 15:50:16 2016 RT1

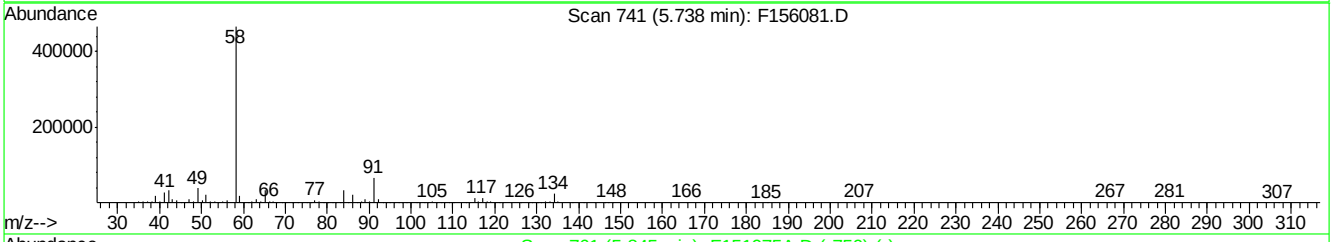
SGS ACCUTEST JC19473

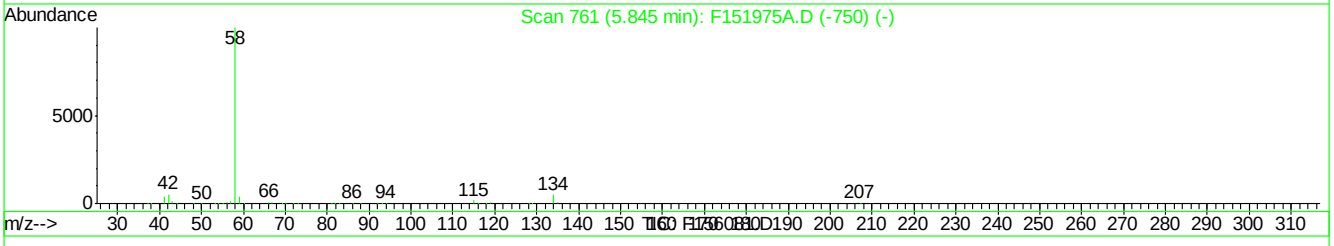
Quantitation Report (Qedit)

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

7.6.69.4

7

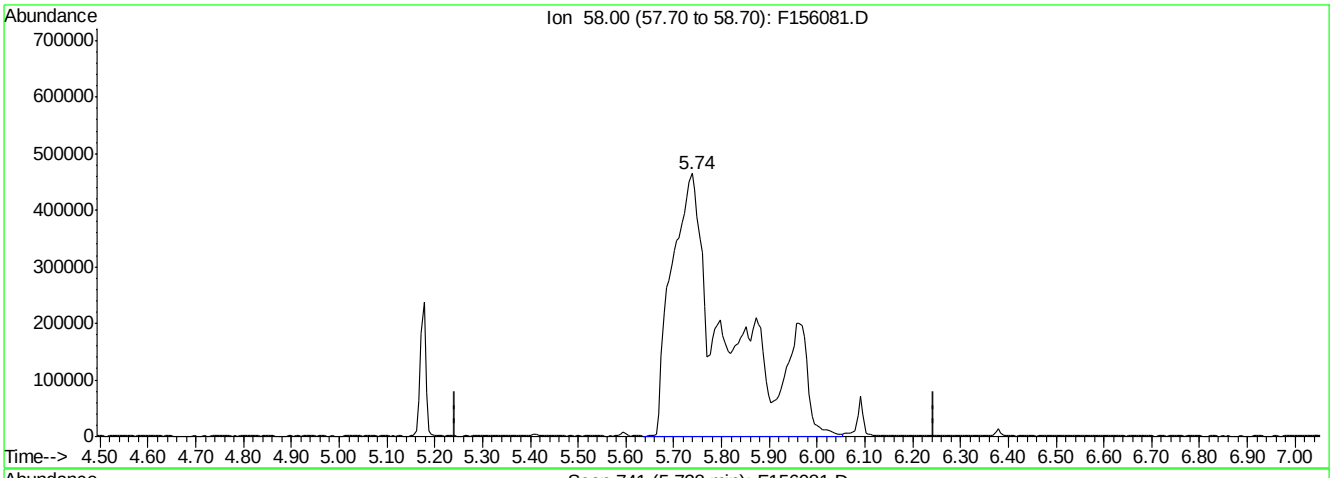
SGS ACCUTEST JC19473

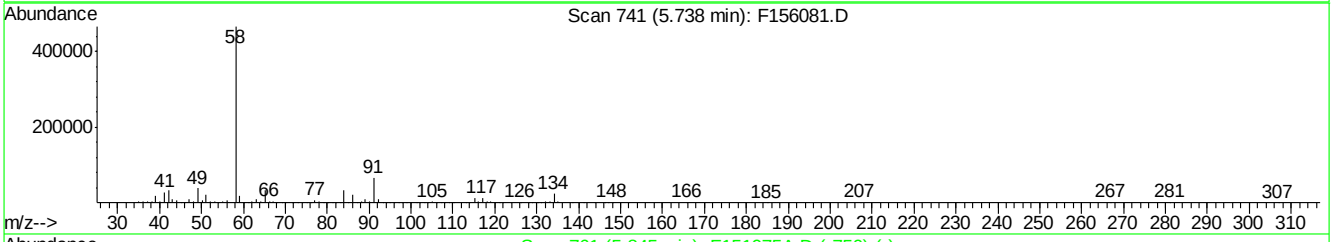
F156081.D edits: A,A-Dimethylphenethylamine

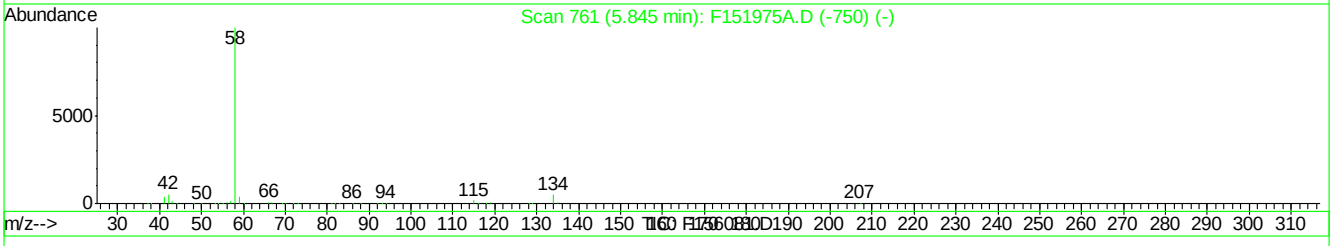
Quantitation Report (Qedit)

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

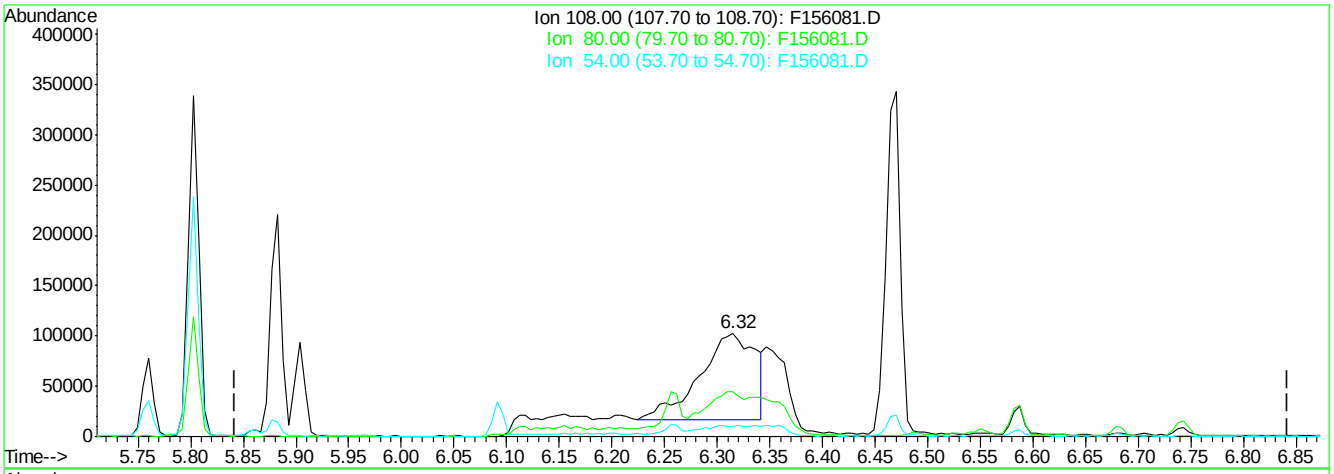
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

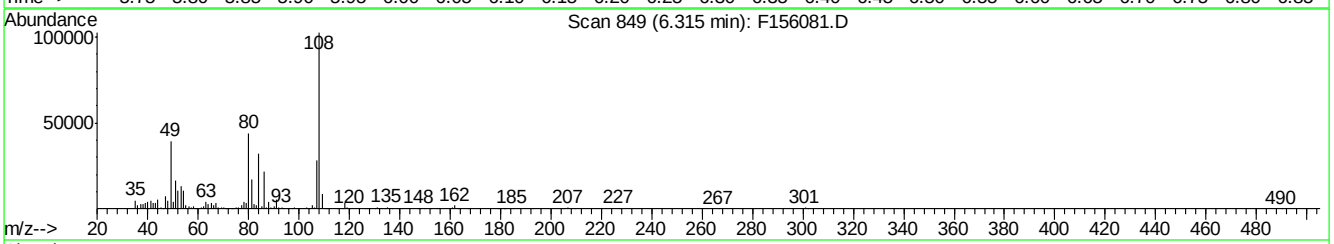
F156081.D MF6563AP9.M Fri Apr 08 15:50:45 2016 RT1

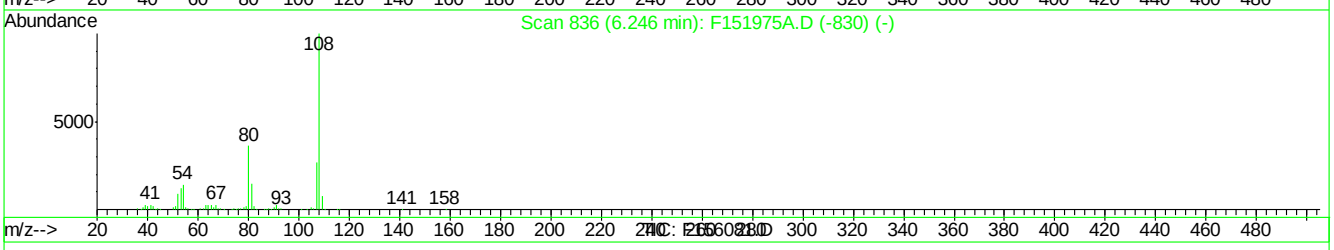
Quantitation Report (Qedit)

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

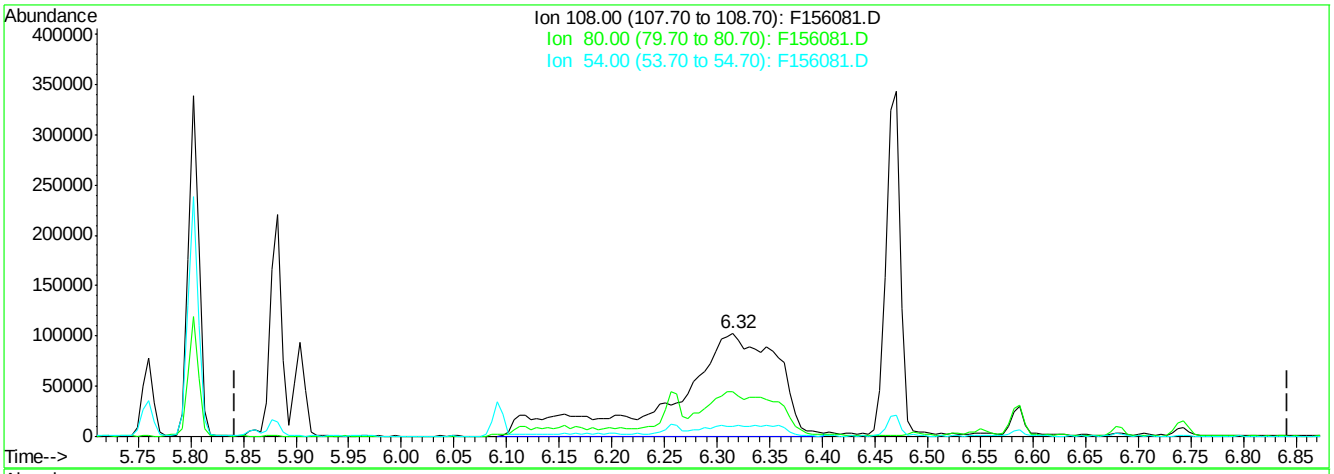
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	38.42
54.00	13.10	7.64
0.00	0.00	0.00

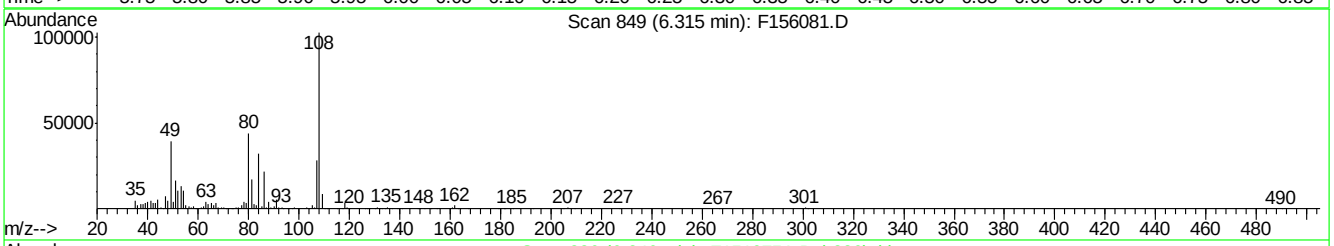
F156081.D MF6563AP9.M Fri Apr 08 15:50:52 2016 RT1

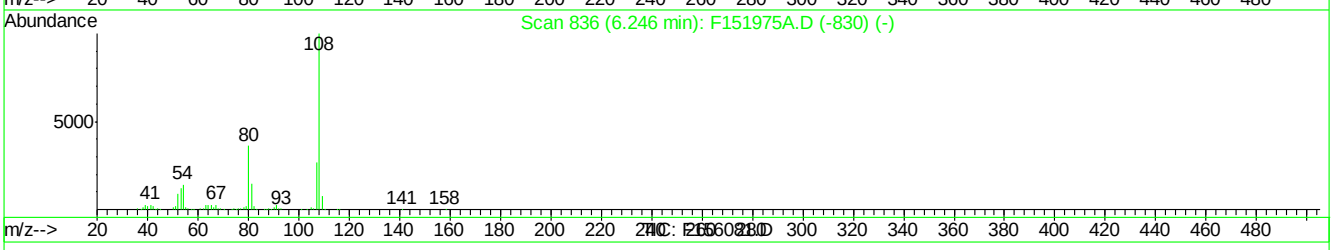
Quantitation Report (Qedit)

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

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

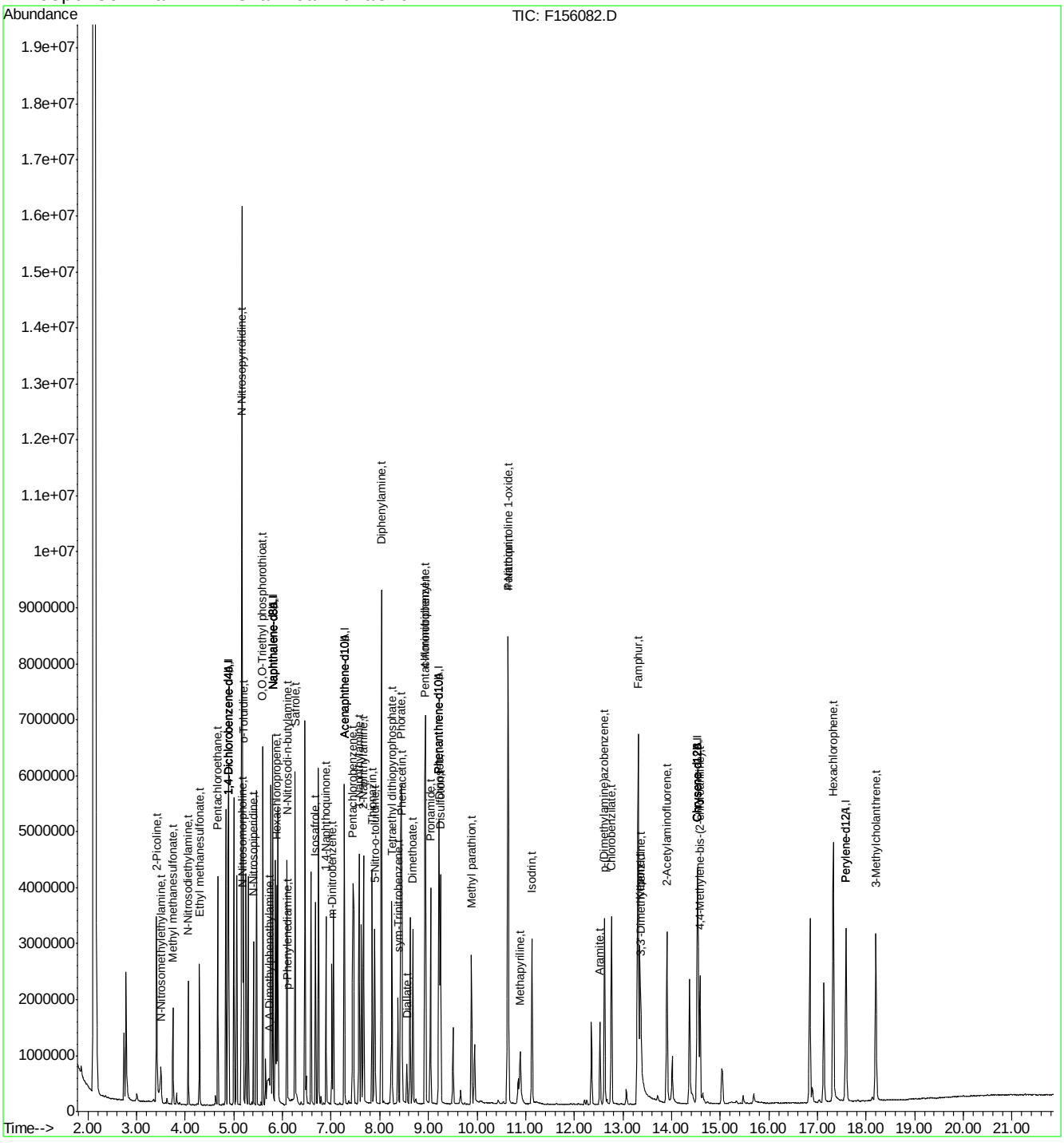
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

Manual Integration Approval Summary

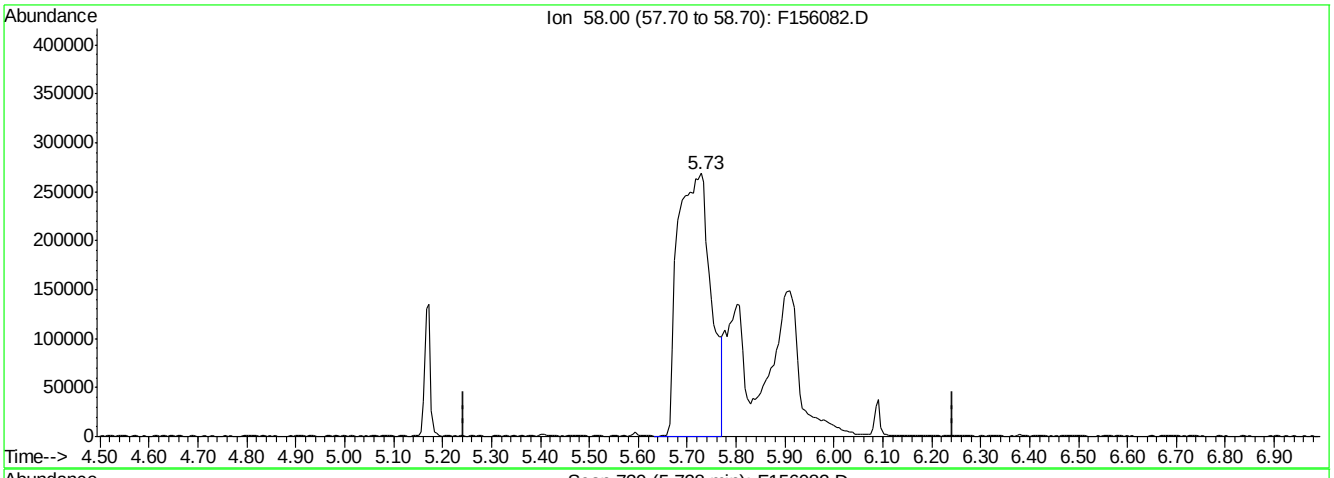
Sample Number:	EF6566-ICC6566	**Method:**	SW846 8270D	
Lab FileID:	F156082.D	**Analyst approved:**	04/08/16 17:21	Kristi Schollenberger
Injection Time:	04/05/16 15:11	**Supervisor approved:**	04/13/16 13:20	Nina Pandya

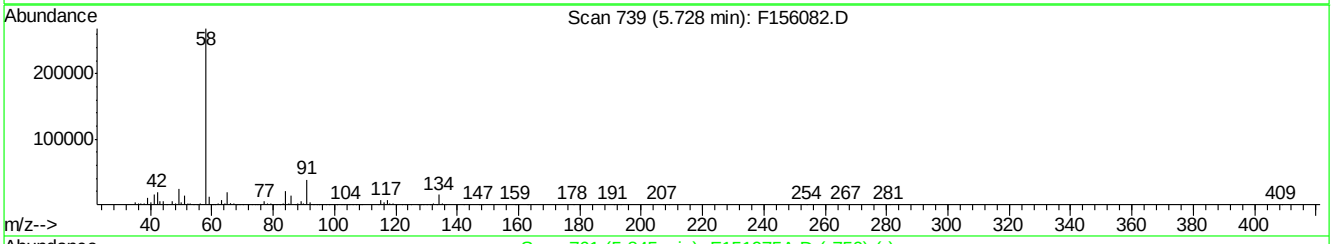
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.73	Split peak
p-Phenylenediamine	106-50-3		6.10	Split peak
Methapyrilene	91-80-5		10.89	Split peak

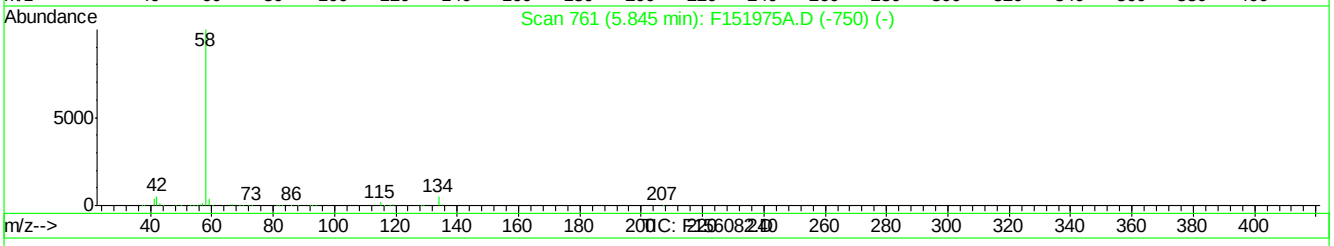
Quantitation Report (Qedit)

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

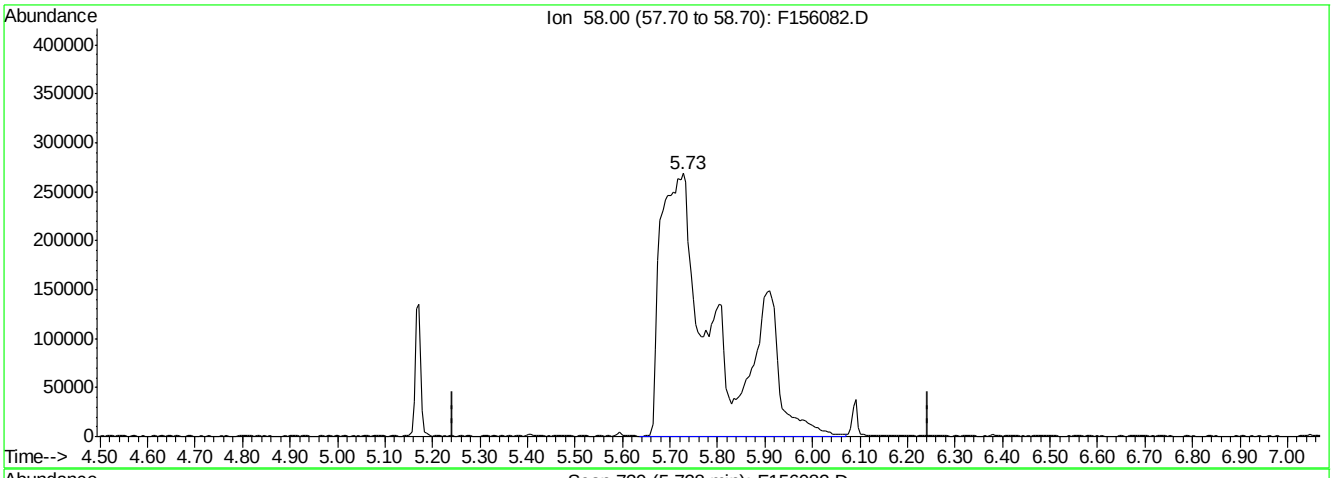
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

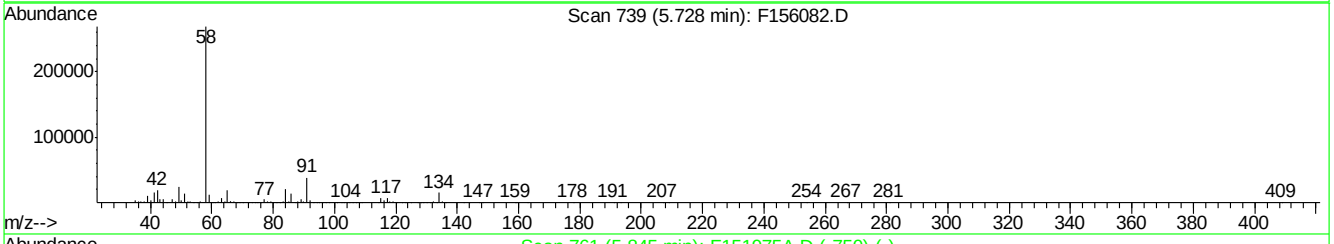
F156082.D MF6563AP9.M Fri Apr 08 15:53:10 2016 RT1

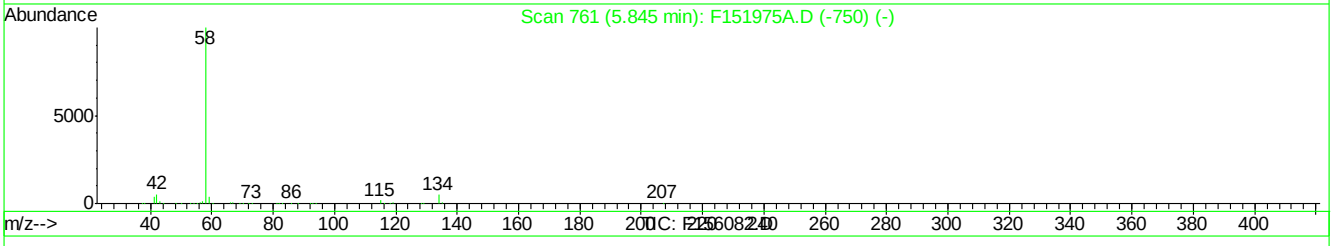
Quantitation Report (Qedit)

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

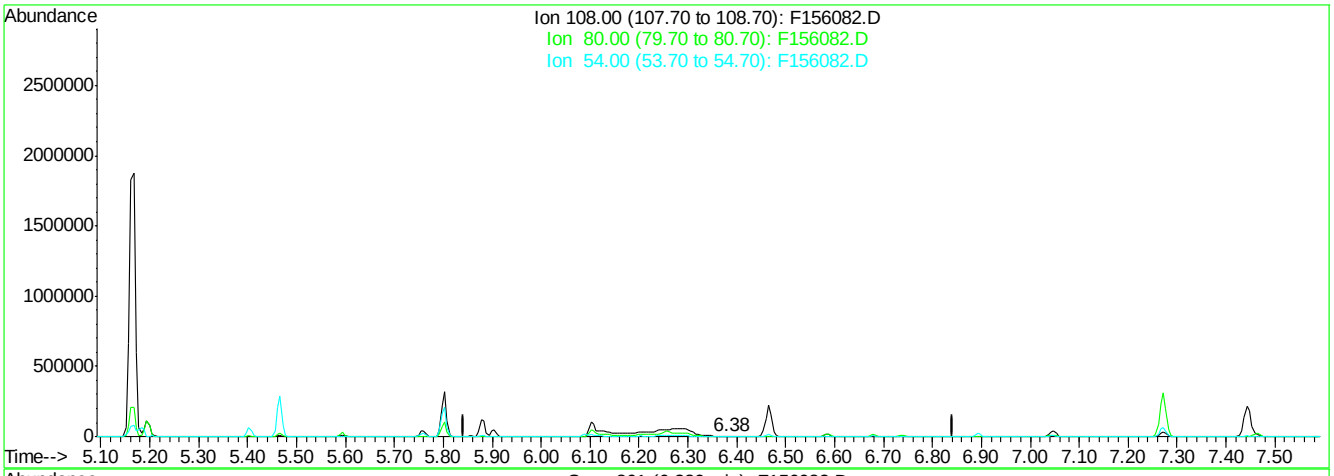
F156082.D MF6563AP9.M Fri Apr 08 15:53:24 2016 RT1

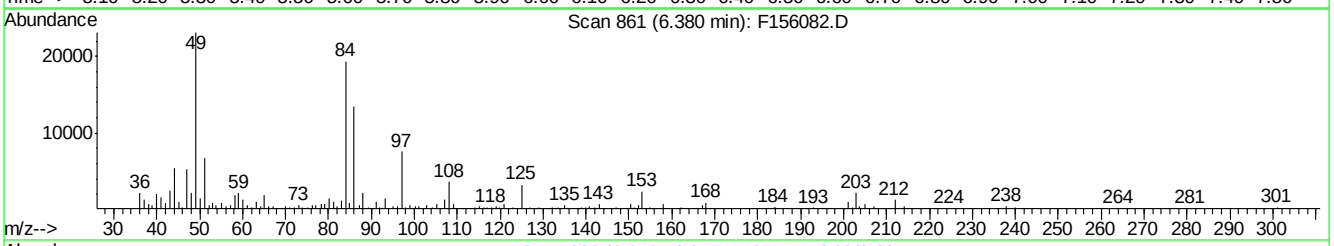
SGS ACCUTEST JC19473

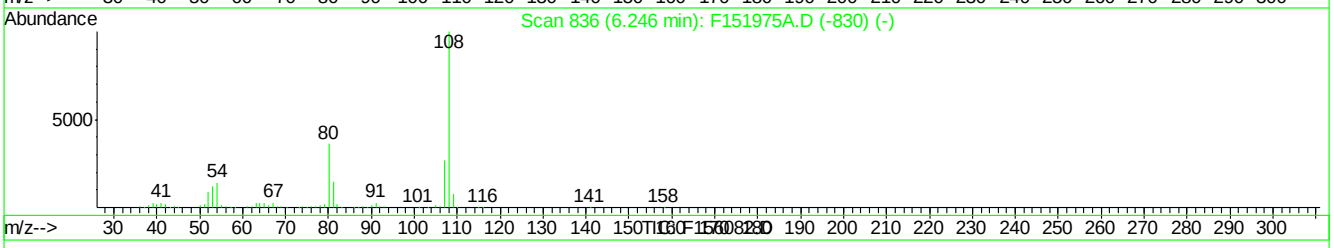
Quantitation Report (Qedit)

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

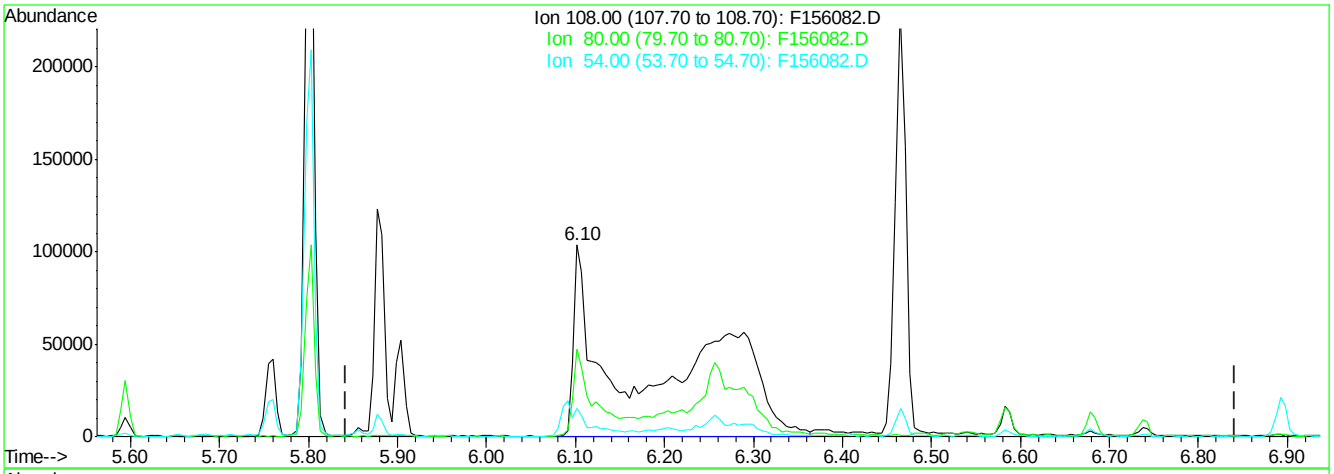
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	9.45
54.00	13.10	0.00
0.00	0.00	0.00

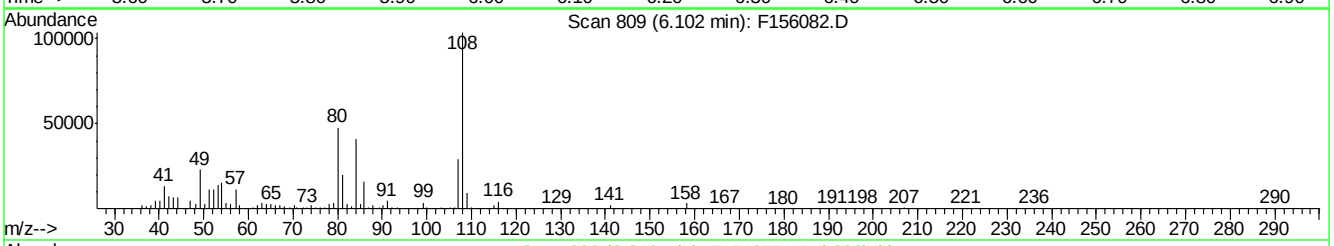
F156082.D MF6563AP9.M Fri Apr 08 15:53:29 2016 RT1

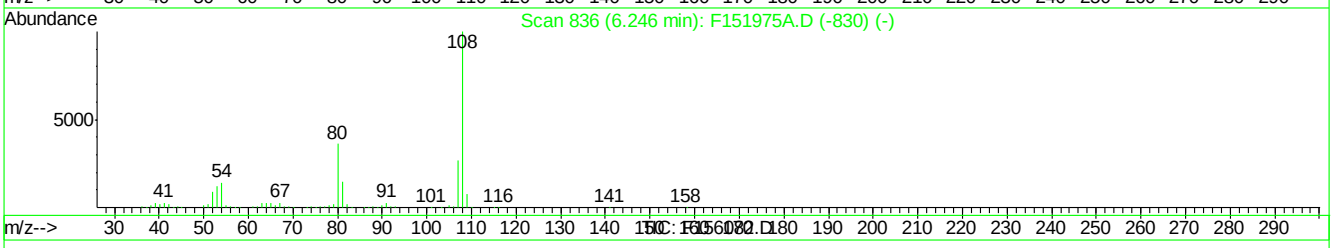
Quantitation Report (Qedit)

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

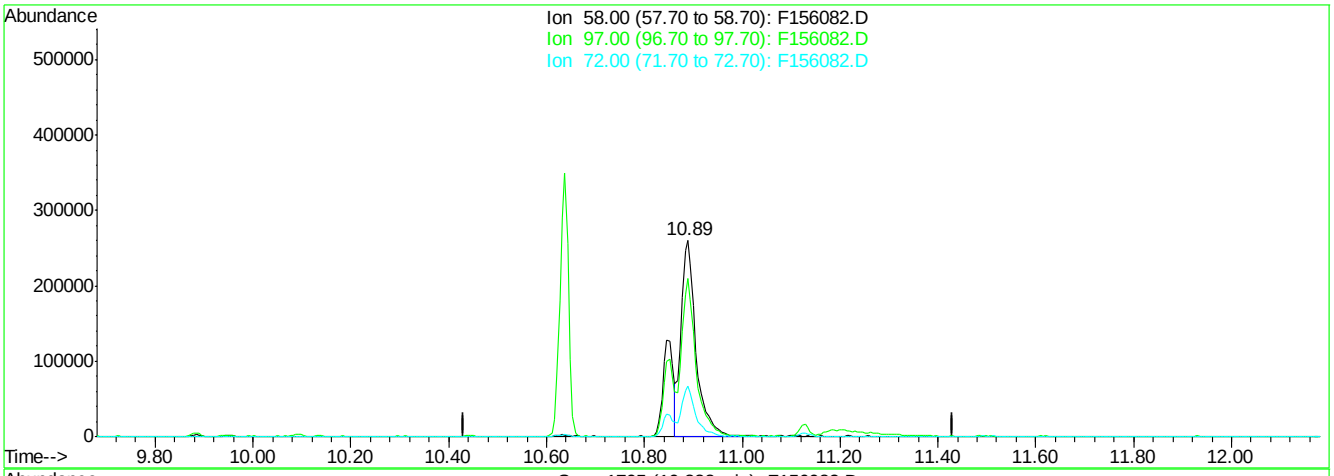
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	45.97
54.00	13.10	14.51
0.00	0.00	0.00

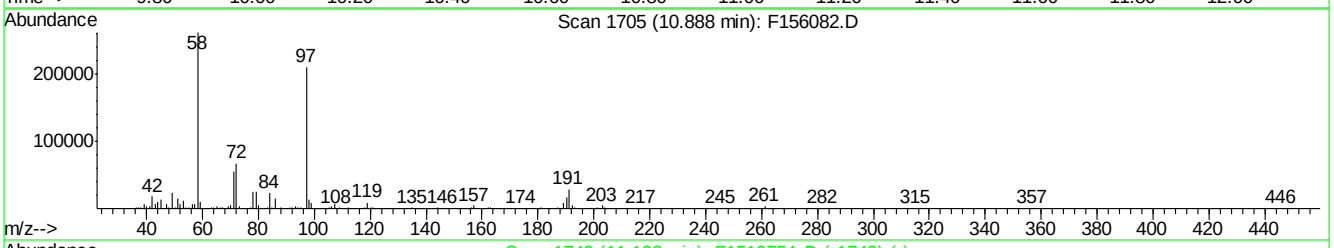
F156082.D MF6563AP9.M Fri Apr 08 15:53:46 2016 RT1

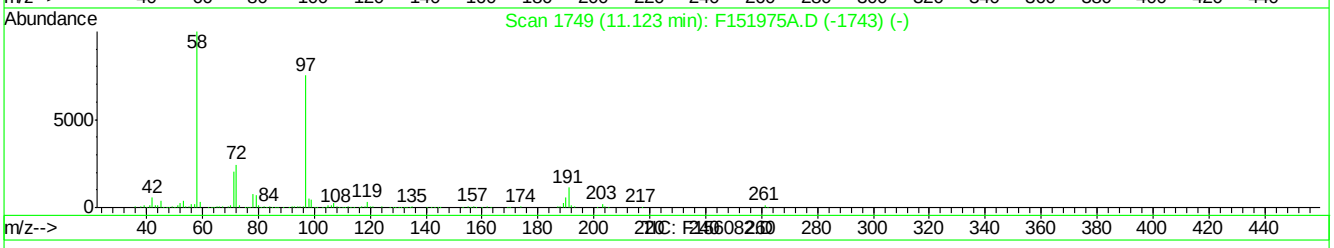
Quantitation Report (Qedit)

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

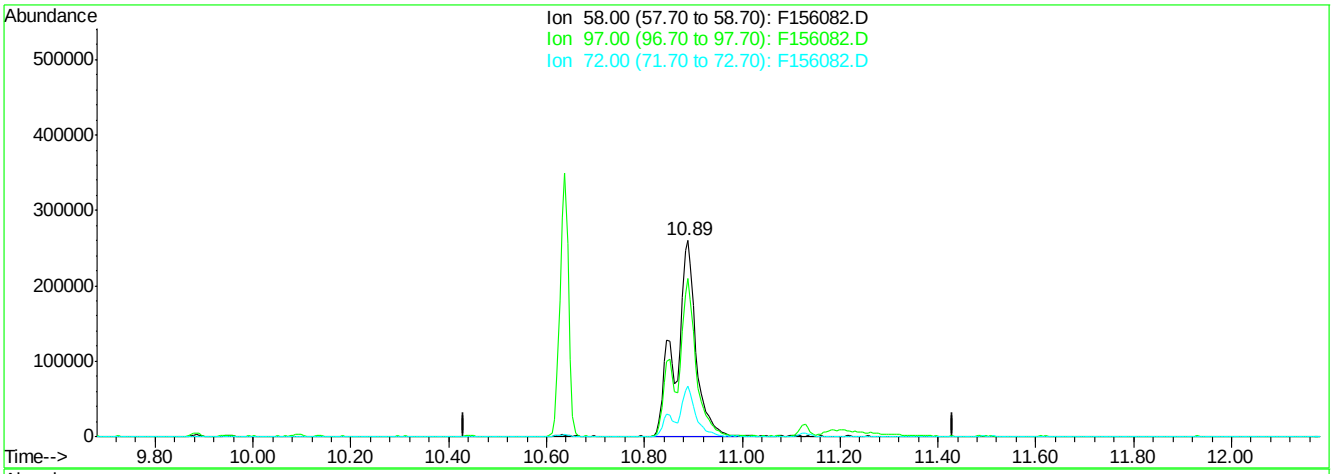
Ion	Exp%	Act%
58.00	100	100
97.00	75.70	79.43
72.00	20.60	25.66
0.00	0.00	0.00

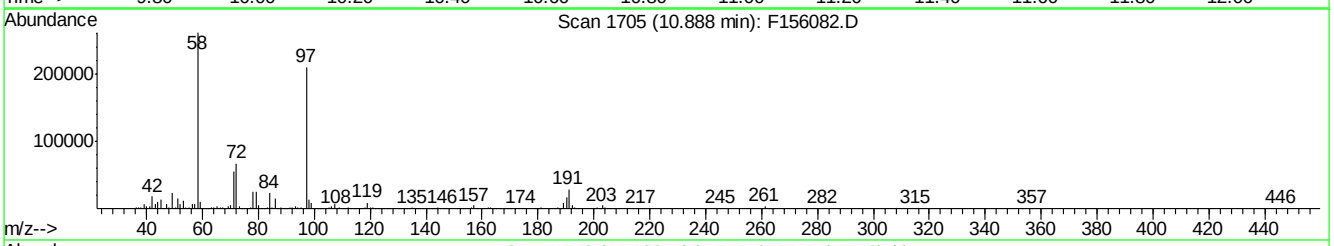
F156082.D MF6563AP9.M Fri Apr 08 15:54:10 2016 RT1

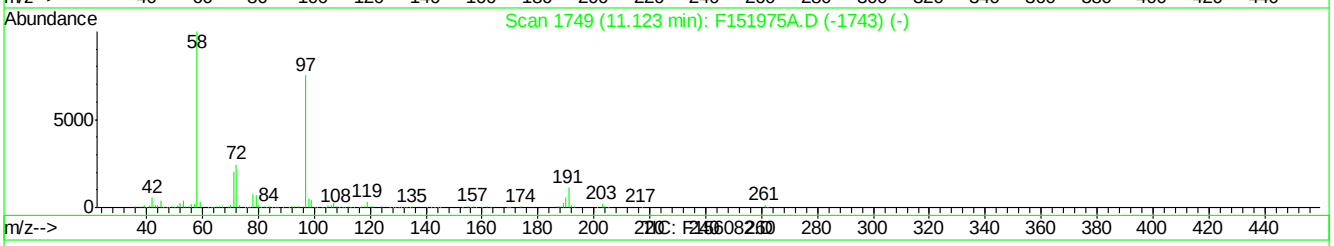
Quantitation Report (Qedit)

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
F156083.D MF6563AP9.M Fri Apr 08 17:17:30 2016 RT1

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

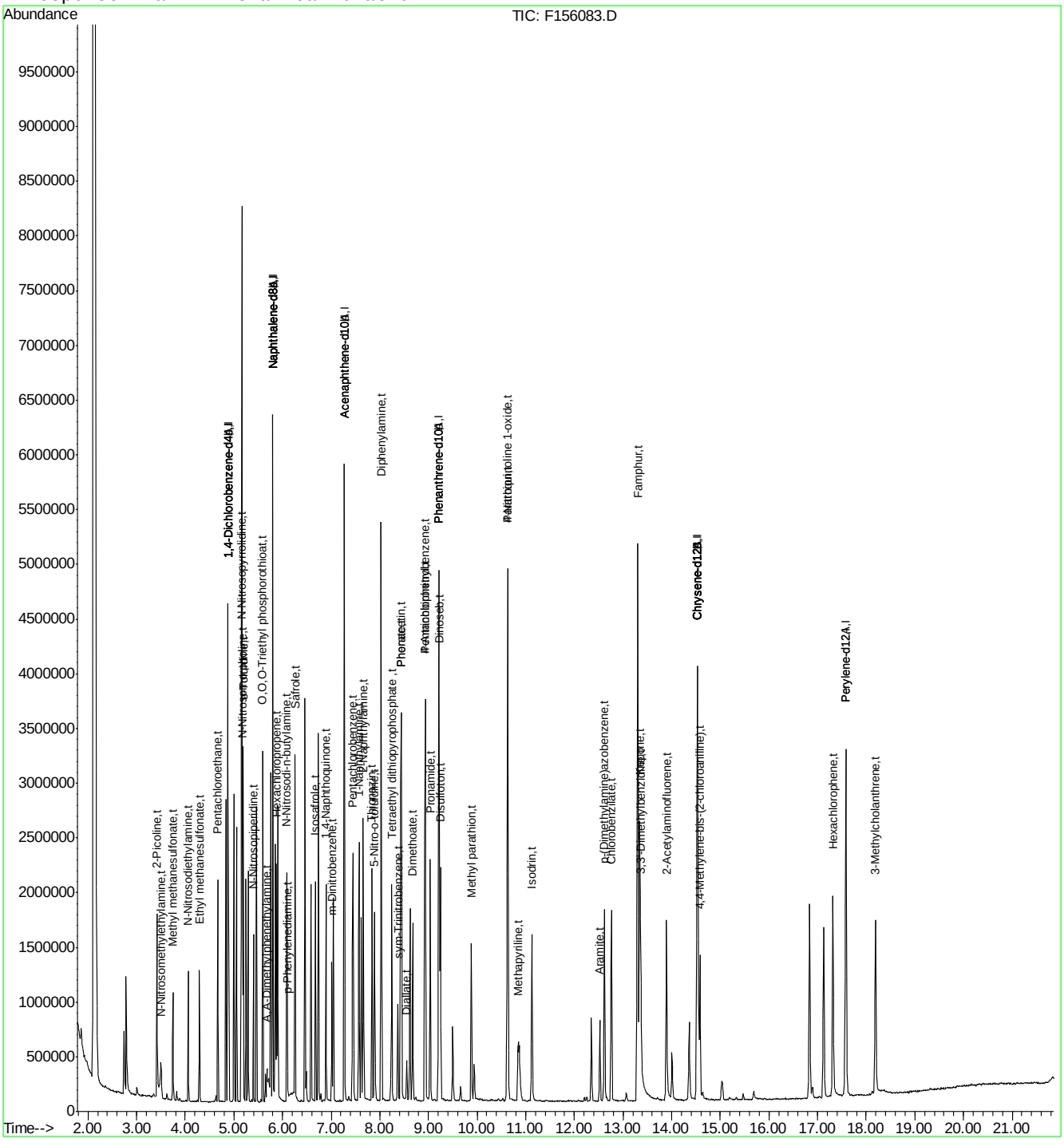
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



F156083.D MF6563AP9.M Fri Apr 08 17:17:30 2016 RT1 Page 3

SGS ACCUTEST JC19473

Manual Integration Approval Summary

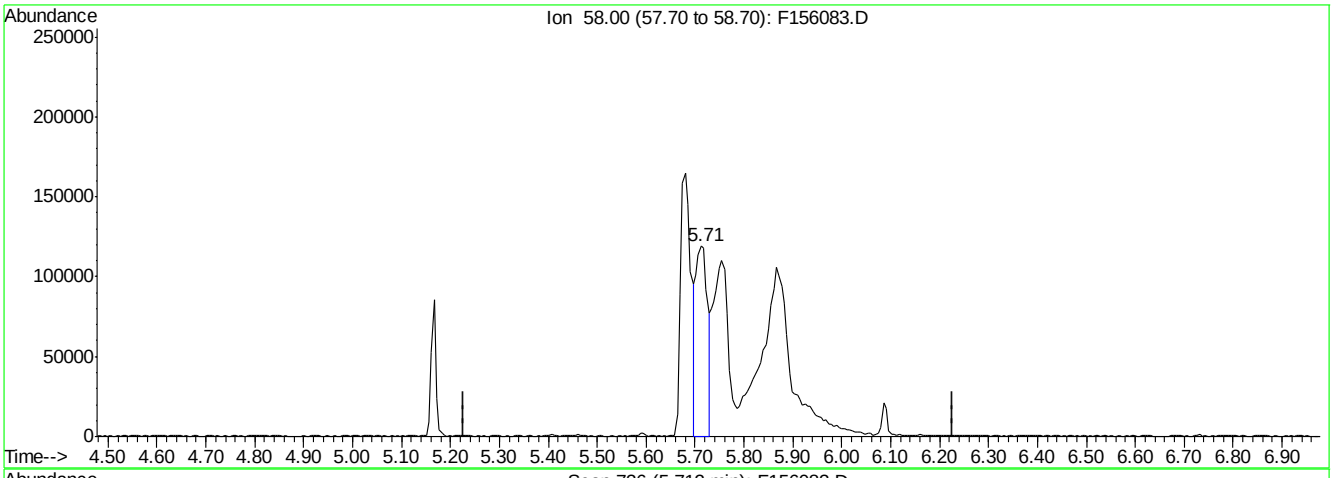
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156083.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 15:40	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

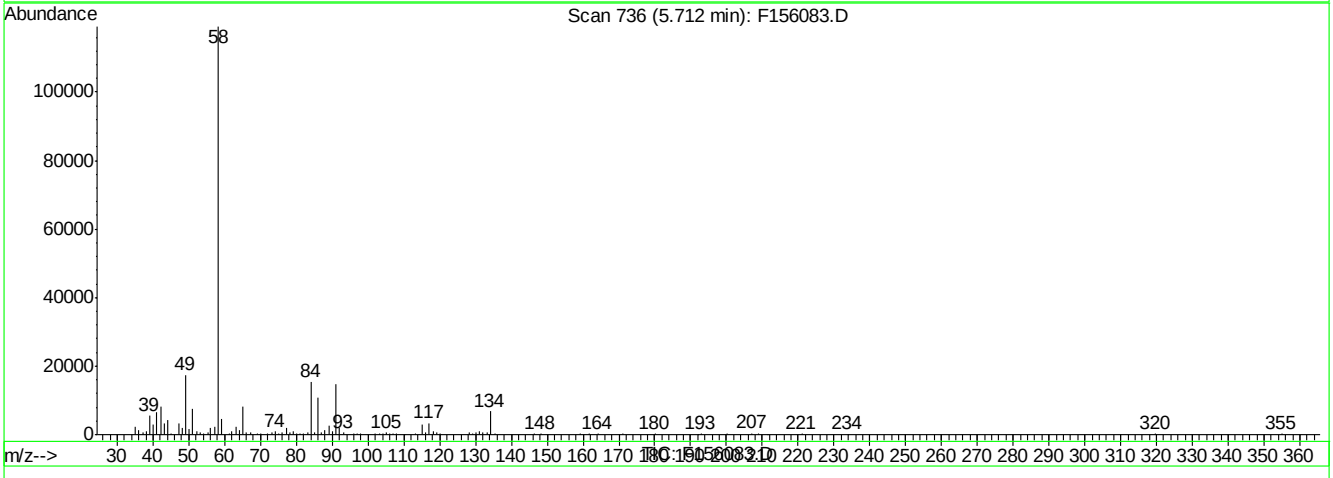
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.68	Split peak
p-Phenylenediamine	106-50-3		6.10	Split peak
Methapyrilene	91-80-5		10.85	Split peak

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

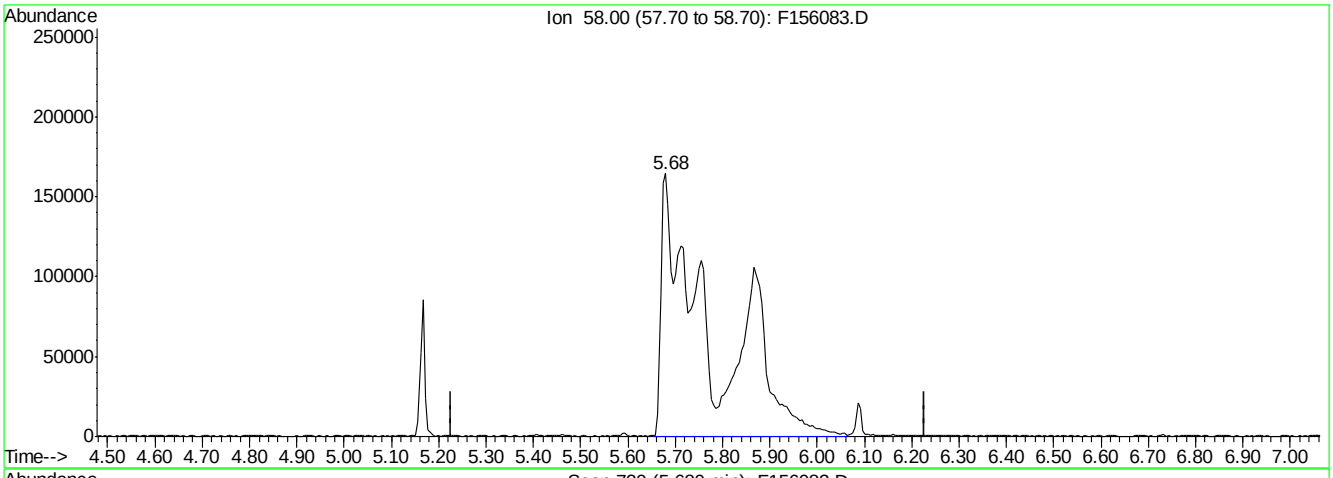
F156083.D MF6563AP9.M Fri Apr 08 15:55:54 2016 RT1

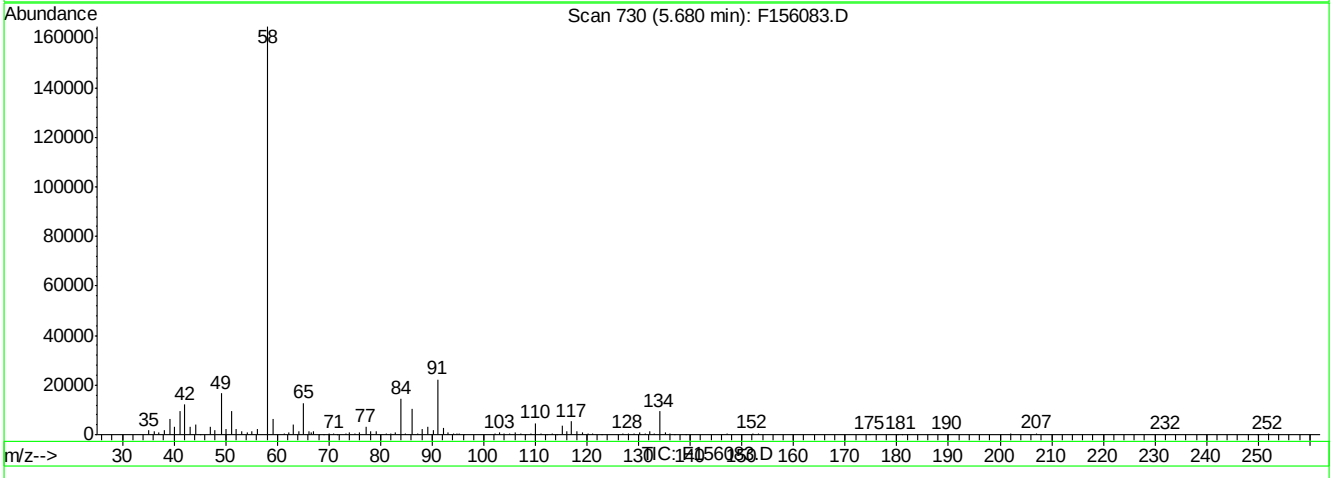
SGS ACCUTEST JC19473

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

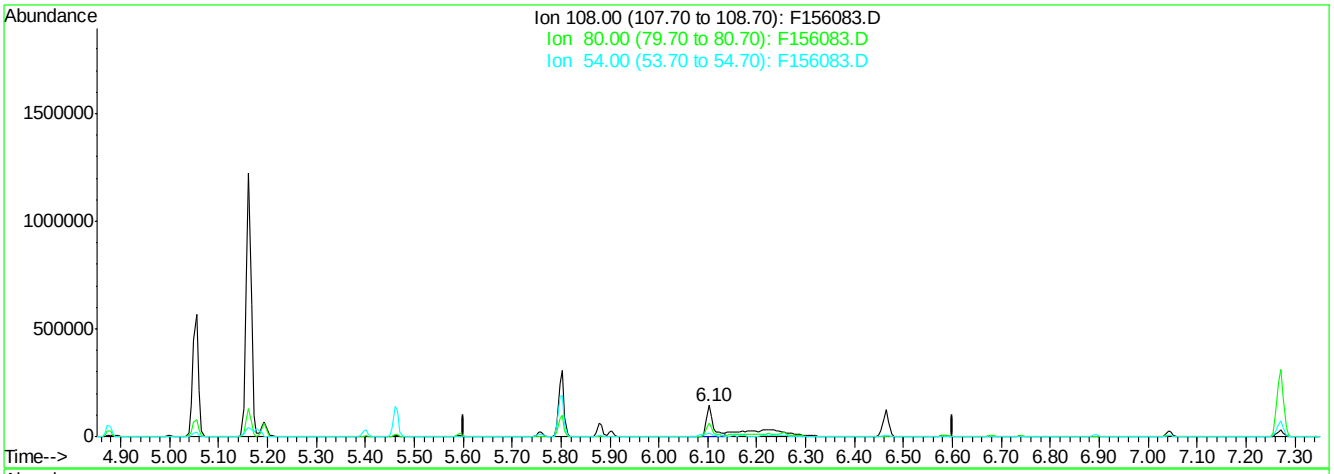
F156083.D MF6563AP9.M Fri Apr 08 15:56:12 2016 RT1

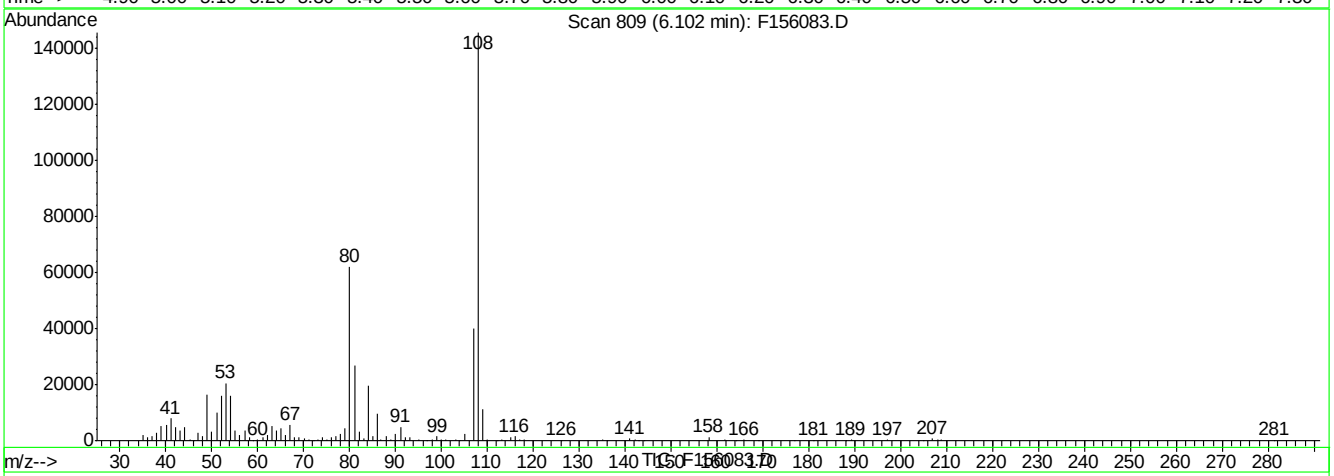
SGS ACCUTEST JC19473

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

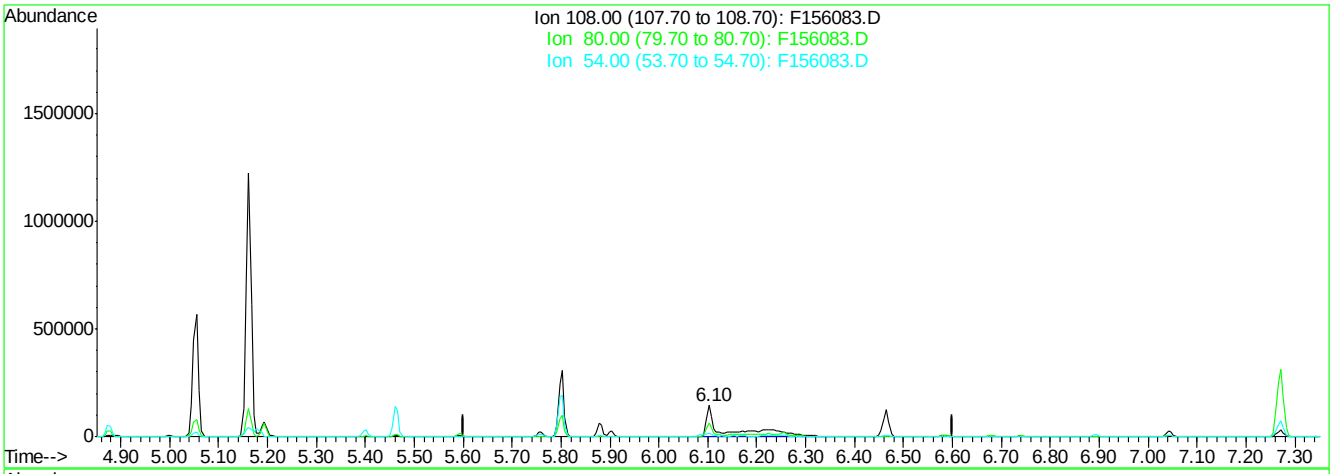
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	42.23
54.00	13.10	10.89
0.00	0.00	0.00

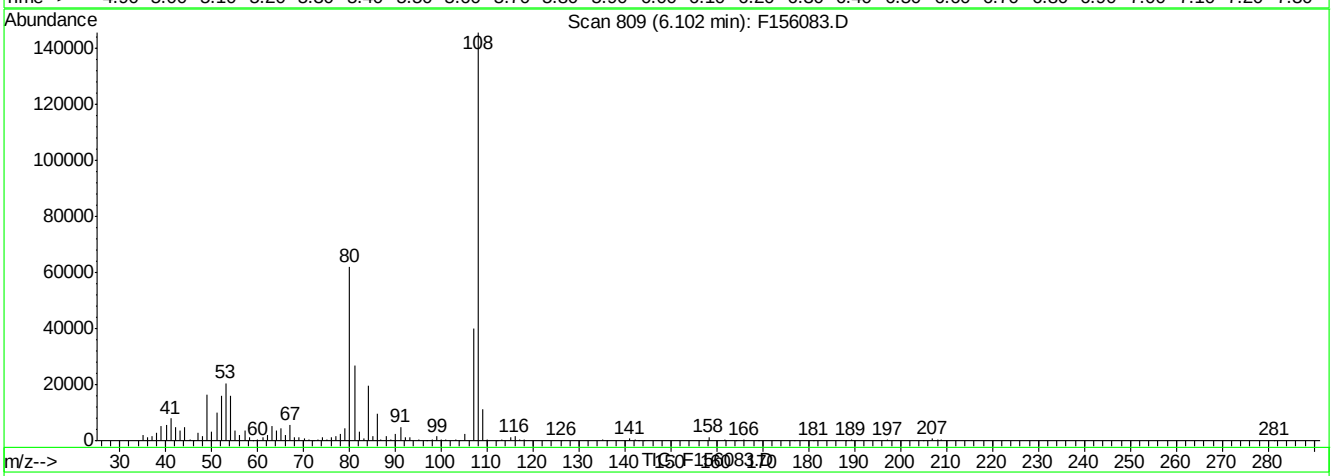
F156083.D MF6563AP9.M Fri Apr 08 15:56:16 2016 RT1

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

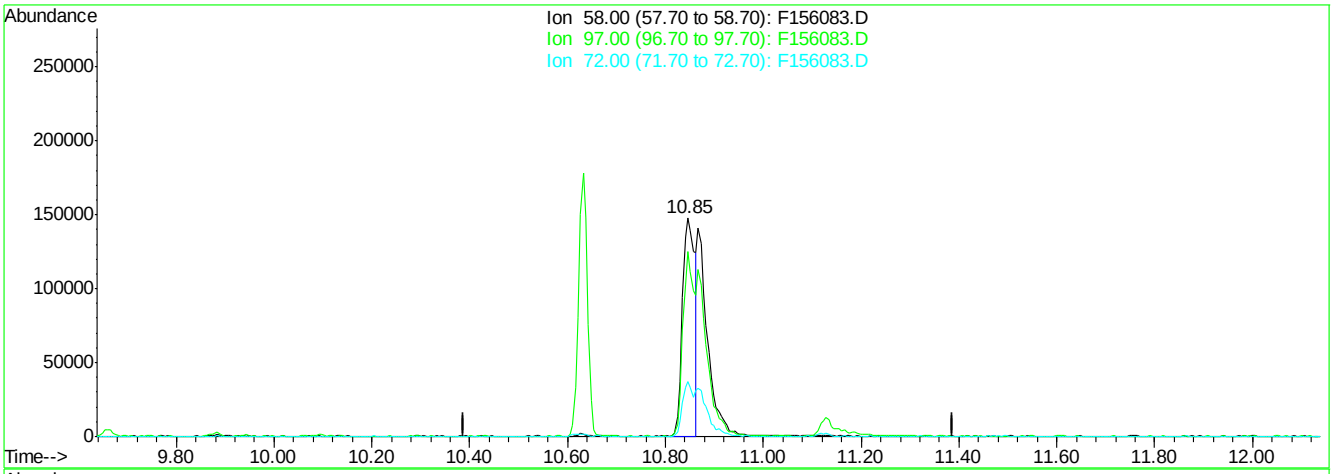
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	42.56
54.00	13.10	11.01
0.00	0.00	0.00

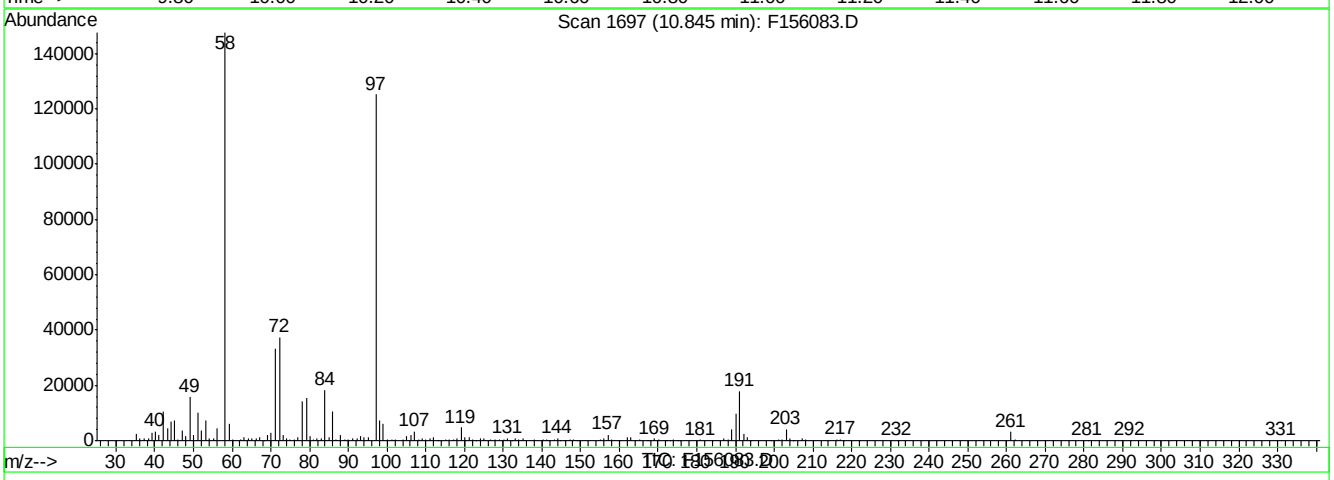
F156083.D MF6563AP9.M Fri Apr 08 15:56:27 2016 RT1

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

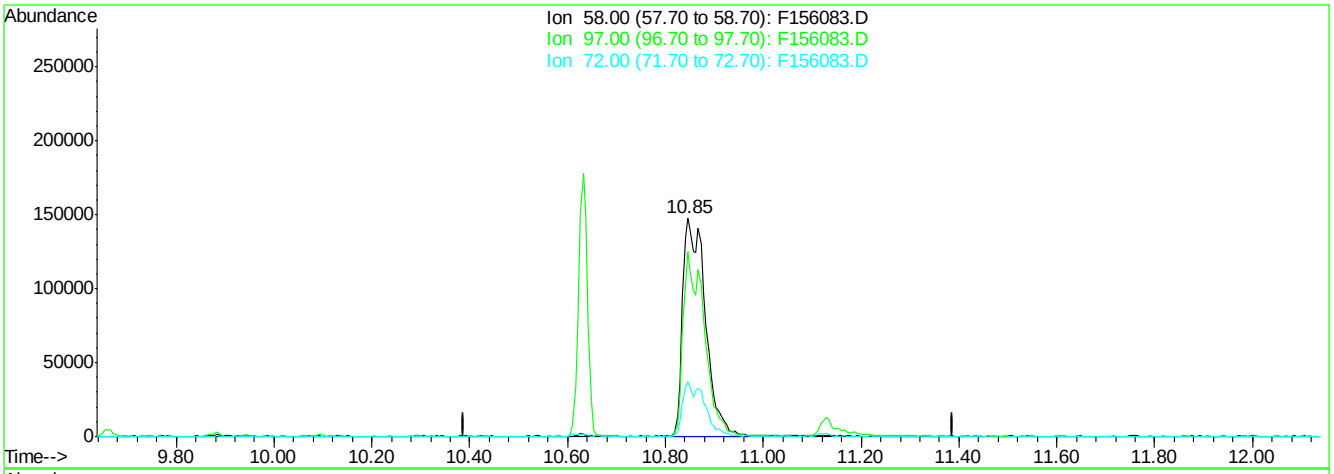
F156083.D MF6563AP9.M Fri Apr 08 15:56:45 2016 RT1

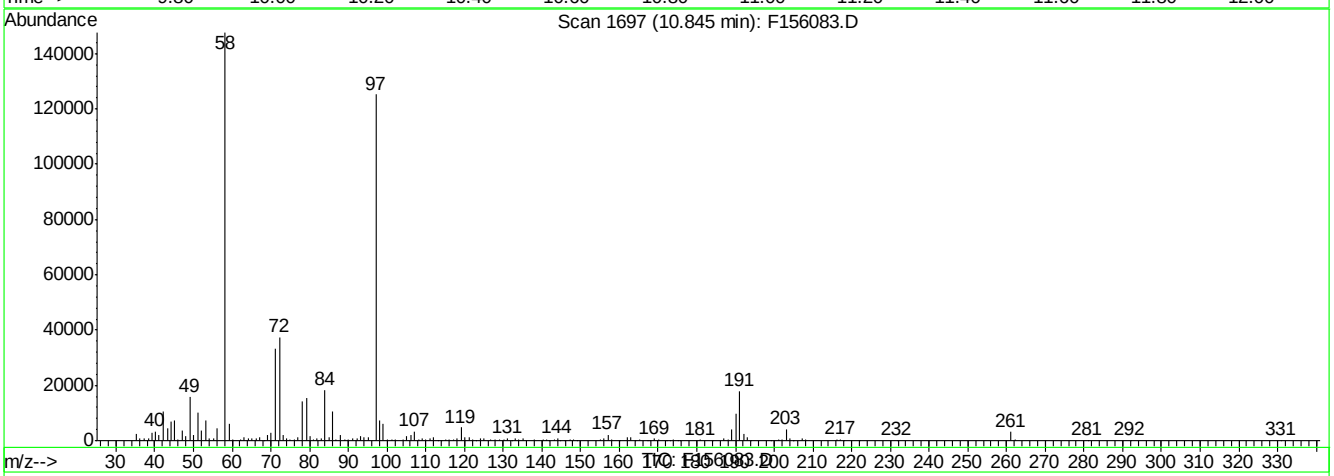
SGS ACCUTEST JC19473

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

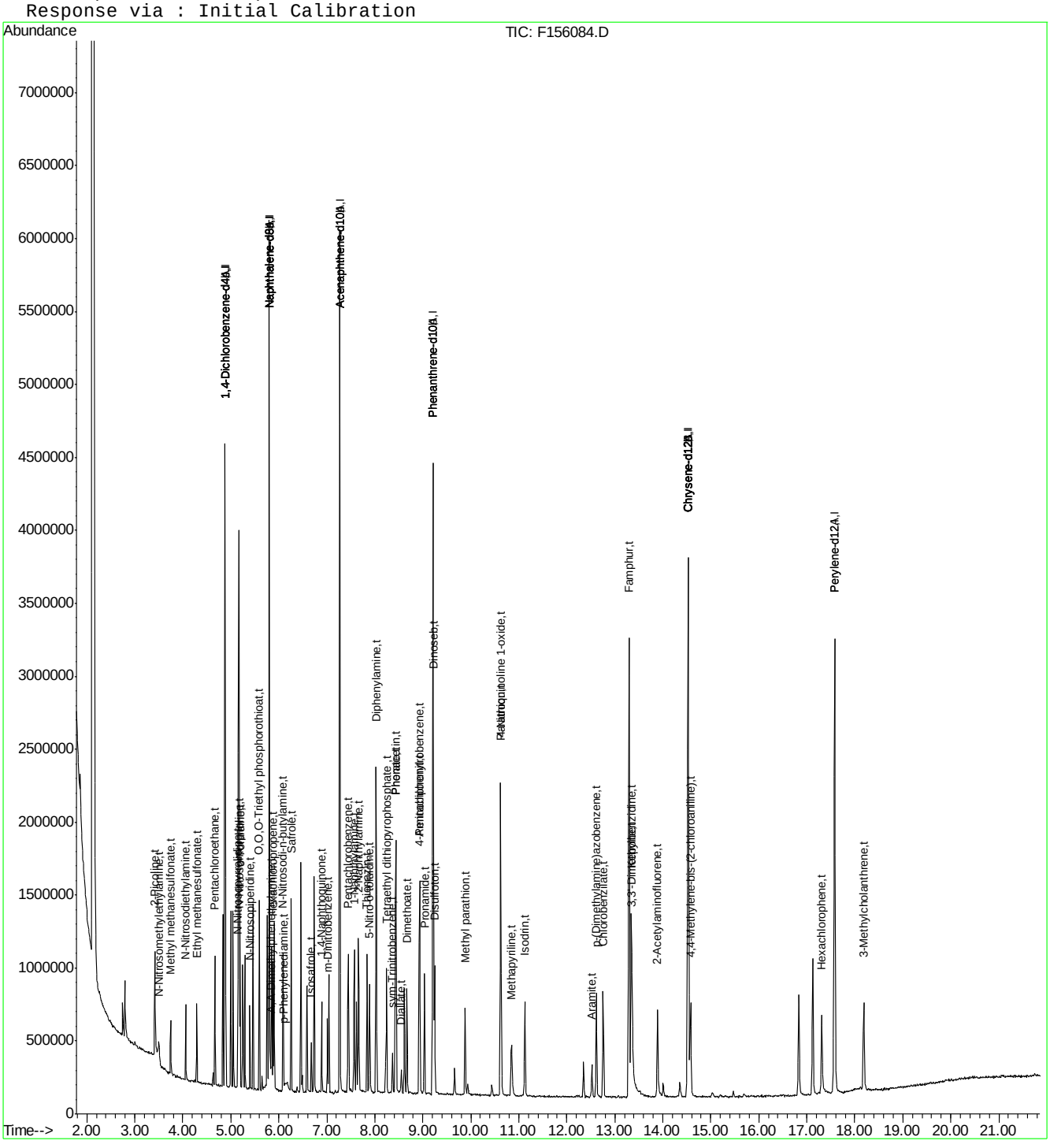
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



F156084.D MF6563AP9.M Fri Apr 08 17:17:36 2016 RT1 Page 3

SGS 625 of 1308 ACCUTEST JC19473

Manual Integration Approval Summary

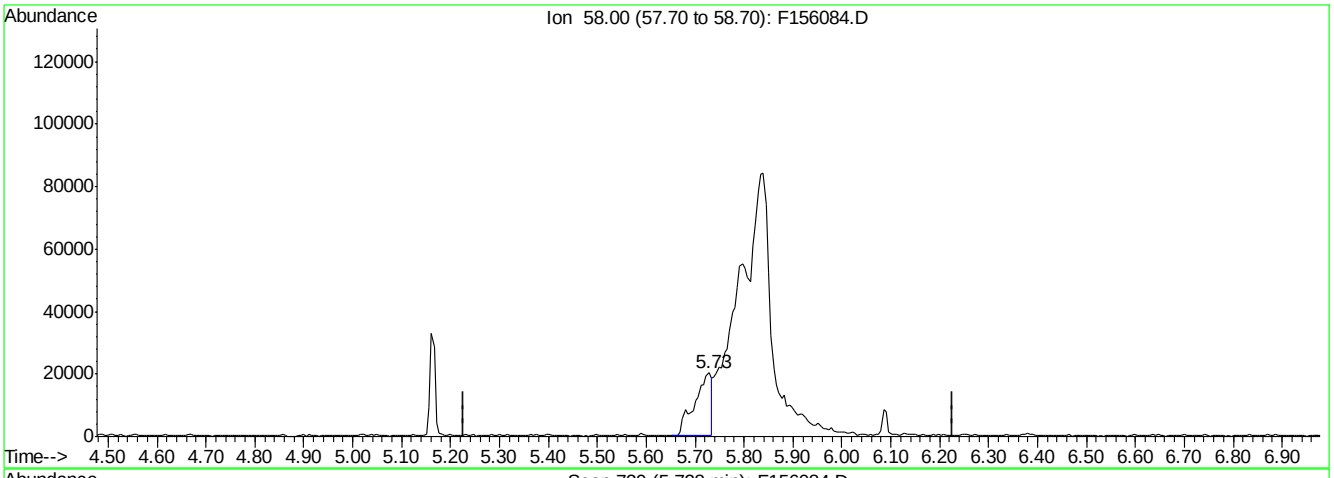
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156084.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 16:08	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

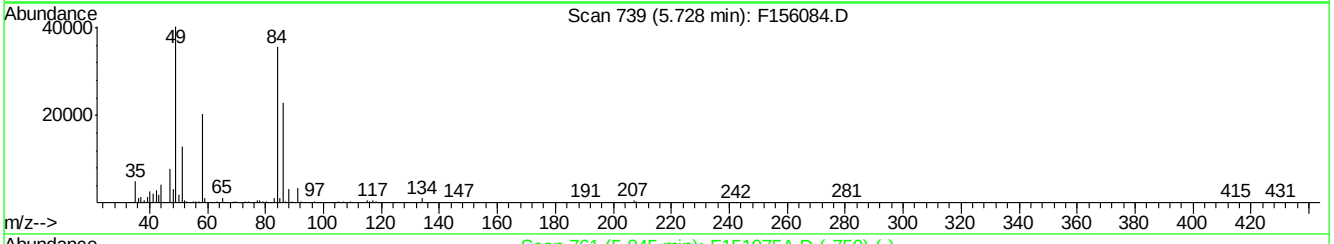
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.84	Split peak
p-Phenylenediamine	106-50-3		6.10	Split peak

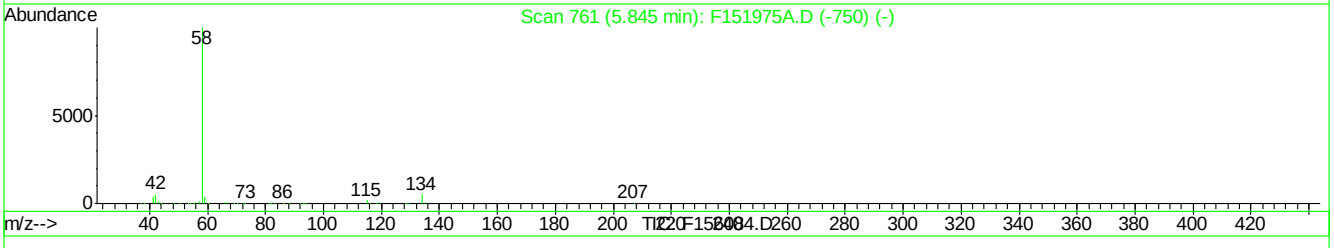
Quantitation Report (Qedit)

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

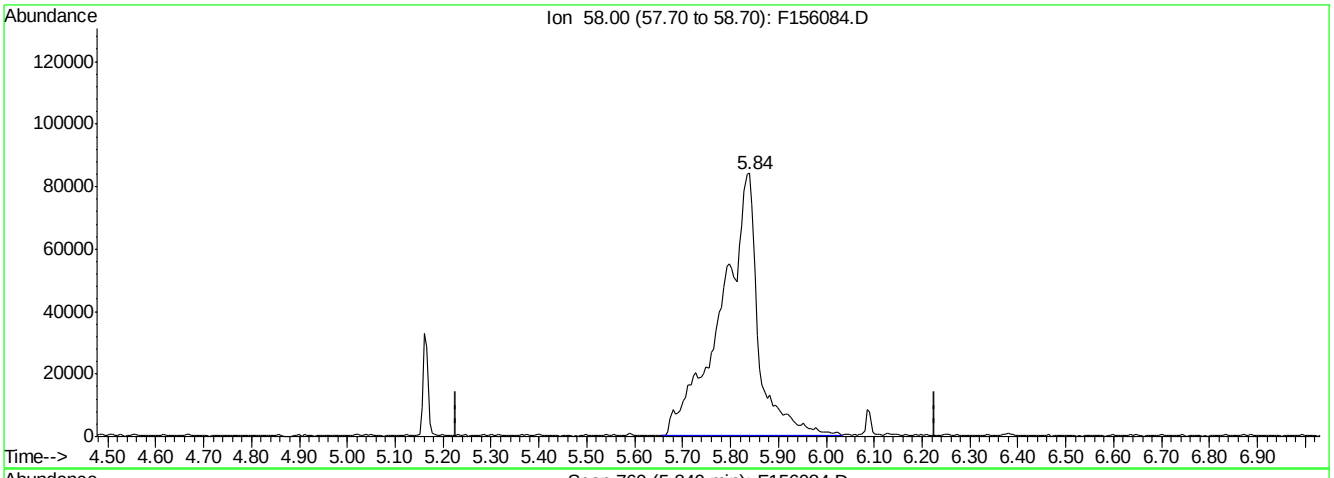
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

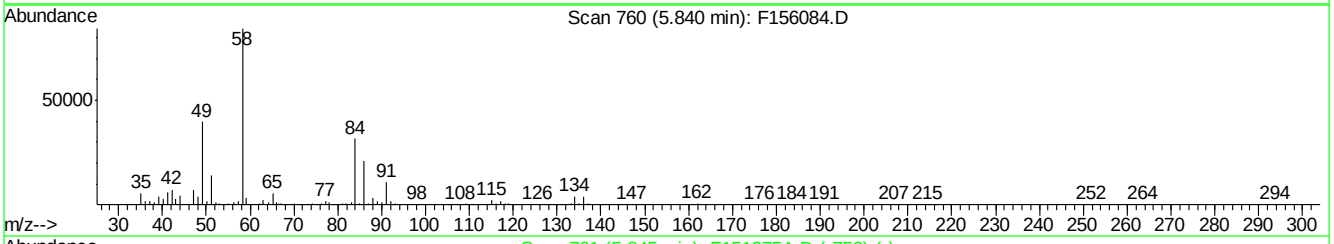
F156084.D MF6563AP9.M Fri Apr 08 15:58:19 2016 RT1

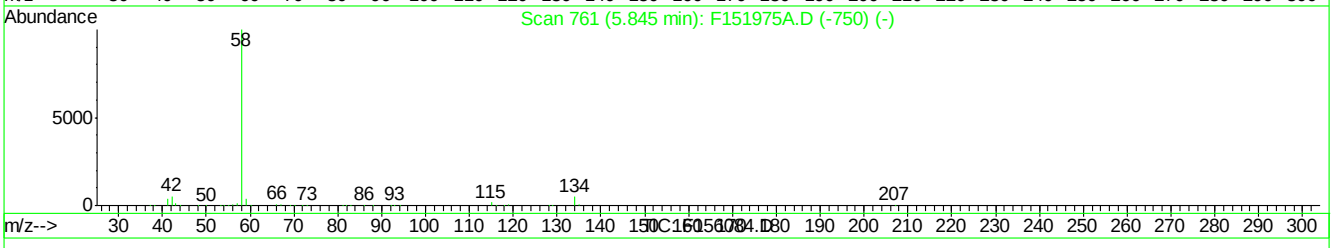
Quantitation Report (Qedit)

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

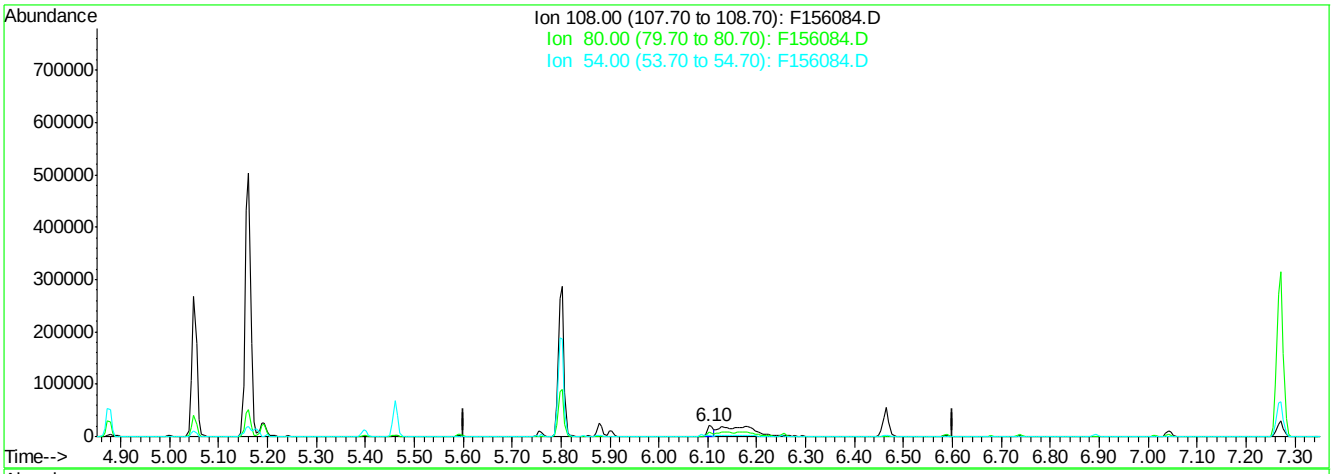
F156084.D MF6563AP9.M Fri Apr 08 15:58:34 2016 RT1

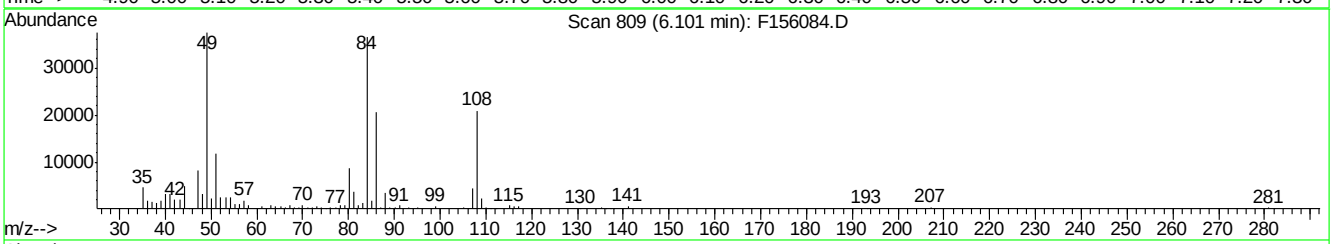
SGS ACCUTEST JC19473

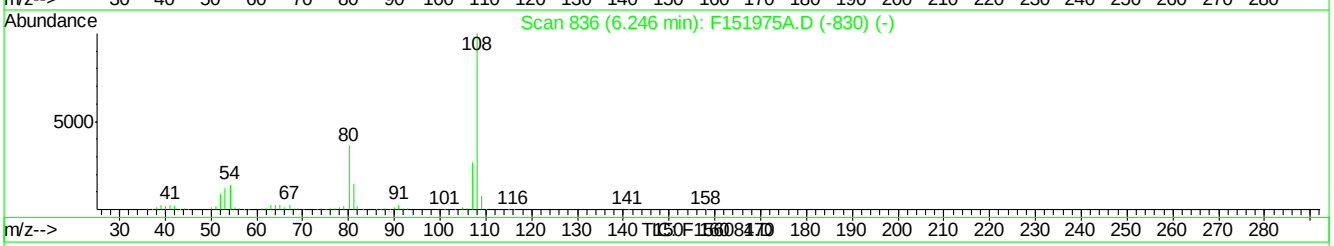
Quantitation Report (Qedit)

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

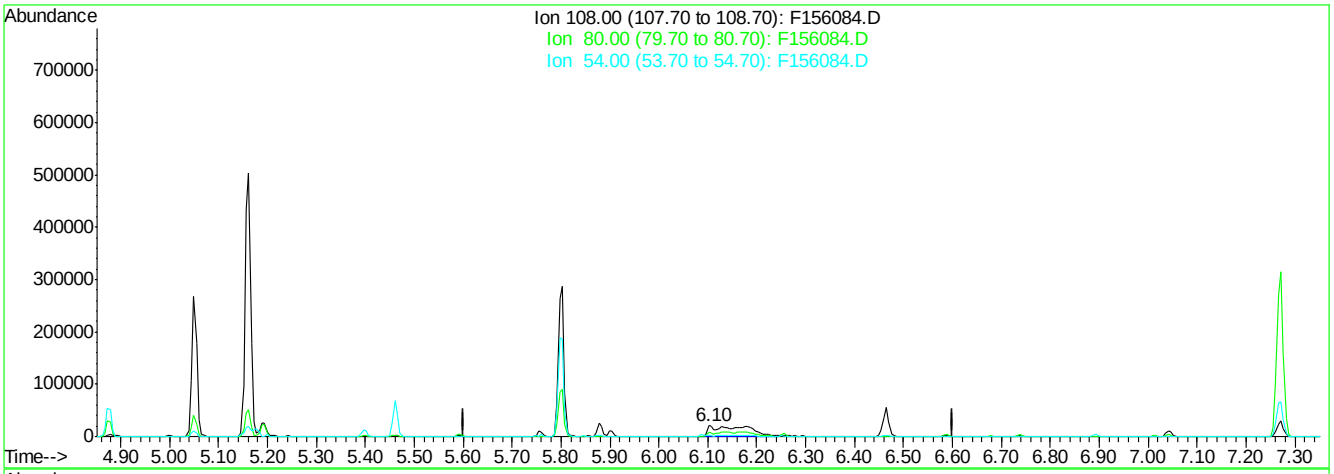
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	41.77
54.00	13.10	10.56
0.00	0.00	0.00

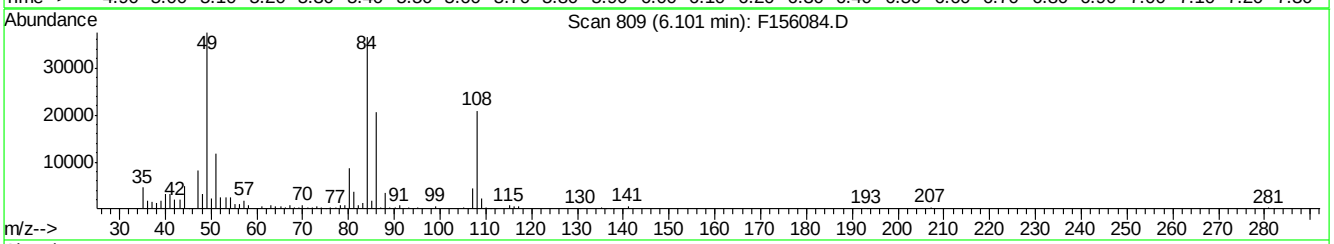
F156084.D MF6563AP9.M Fri Apr 08 15:58:38 2016 RT1

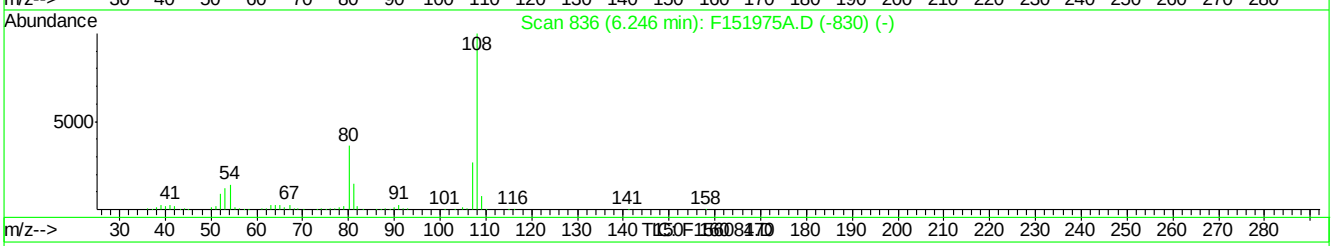
Quantitation Report (Qedit)

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

SGS ACCUTEST JC19473

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
F156085.D MF6563AP9.M Fri Apr 08 17:17:42 2016 RT1

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

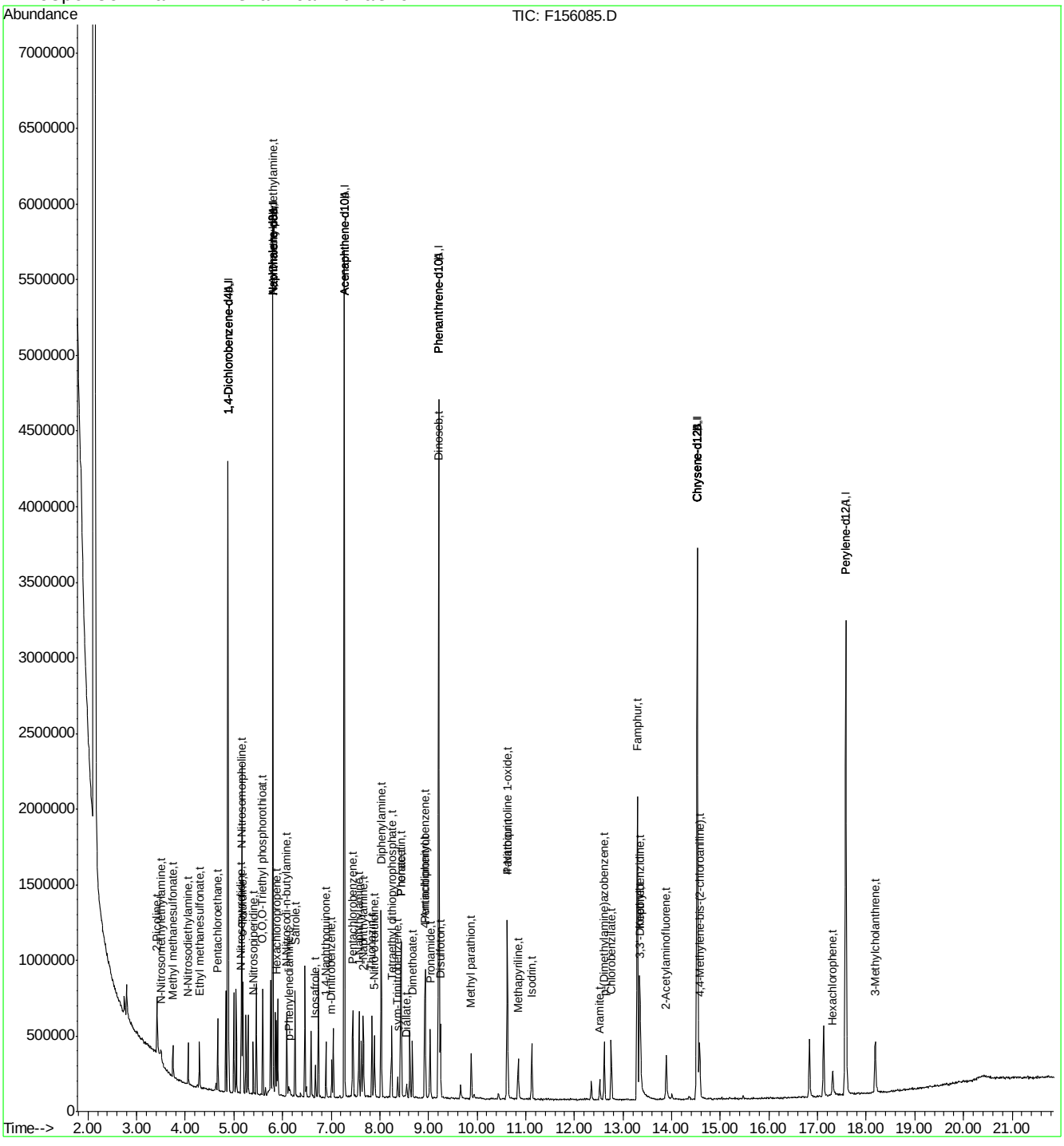
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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


Abundance
TIC: F156085.D
7000000
6500000
6000000
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Time-->
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
1,4-Dichlorobenzene-d4,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
Pentachloroethane,t
Hexachlorophene,t
3-Methylcholanthrene,t
Methyl parathion,t
Methapyriline,t
Isodrin,t
Famphur,t
2-Acetylaminofluorene,t
Isosafrole,t
Diphenylamine,t
Dimethoate,t
Pronamide,t
Aramite,t
Chlorobenzilate,t
Methyl methanesulfonate,t
Ethyl methanesulfonate,t
N-Nitrosodiethylamine,t
Hexachloropropene,t
Safrole,t
Dinoseb,t
Disulfoton,t
Phenacetin,t
Diallate,t
Tetraethyl dithiopyrophosphate,t
Pentachlorobenzene,t
Pentachlorophenol,t
Phenanthrene,t
Naphthalene,t
Acenaphthylene,t
Fluoranthene,t
Pyrene,t
Benzo(a)anthracene,t
Chrysene,t
Benzo(b)fluoranthene,t
Benzo(k)fluoranthene,t
Benzo(a)pyrene,t
Indeno(1,2,3-cd)pyrene,t
Dibenz(a,h)anthracene,t
Benzo(g,h,i)perylene,t
Phenanthridine,t
Chlorobenzene,t
1,2-Dichlorobenzene,t
1,3-Dichlorobenzene,t
1,4-Dichlorobenzene,t
1,2,4-Trichlorobenzene,t
Hexachlorobenzene,t
Hexachlorocyclopentadiene,t
Hexachlorobutadiene,t
Hexachloroethane,t
Bis(2-chloroethyl)ether,t
Bis(2-chloroisopropyl)ether,t
Bis(2-chloroethoxy)methane,t
Bis(2-ethylhexyl)phthalate,t
Butylbenzylphthalate,t
Dimethylphthalate,t
Diethylphthalate,t
Di-n-butylphthalate,t
Di-n-octylphthalate,t
Benzidine,t
3,3'-Dichlorobenzidine,t
Benzidine-d8,I
3,3'-Dichlorobenzidine-d6,I
Benzidine-d8,I
Benzidine-d8,I
Benzidine-d8

Manual Integration Approval Summary

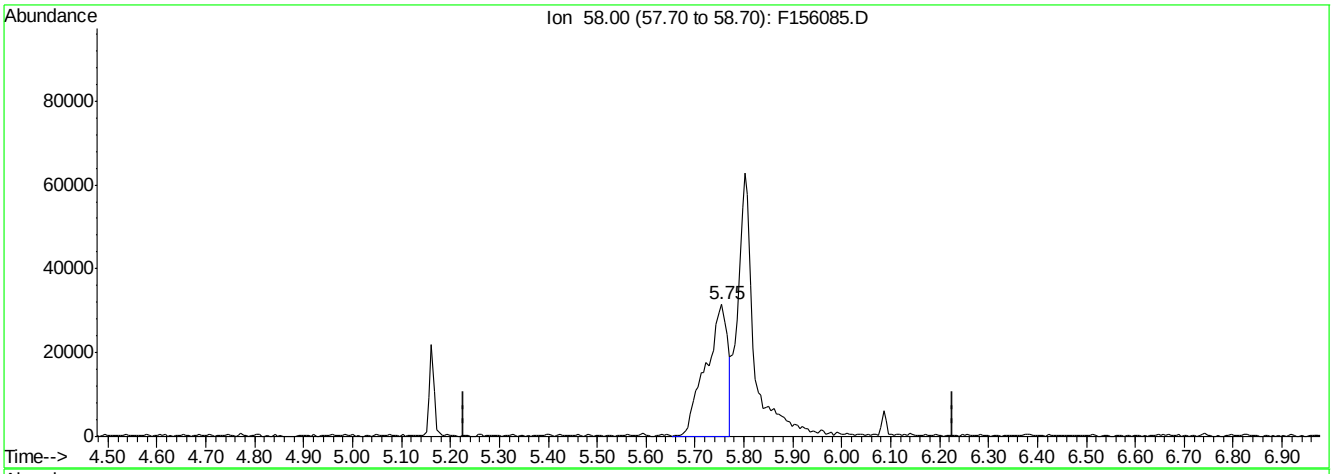
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156085.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 16:37	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

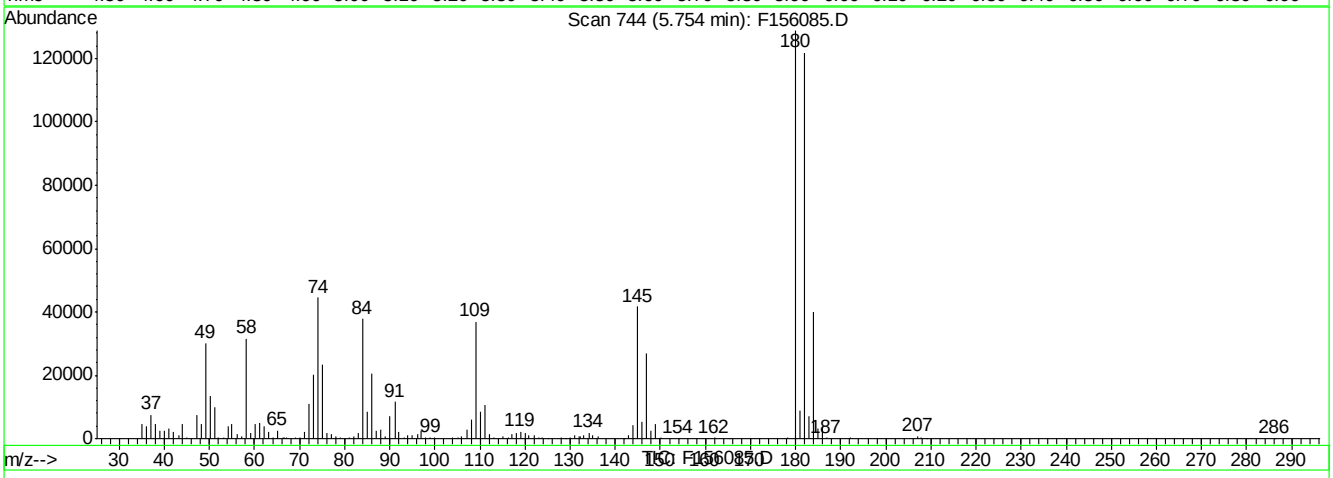
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.80	Split peak

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

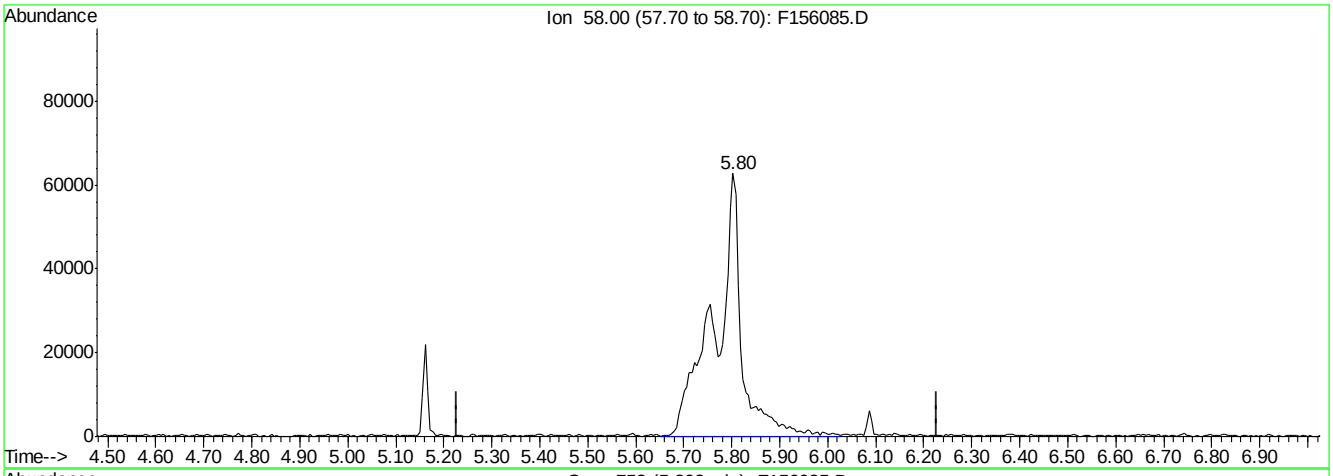
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

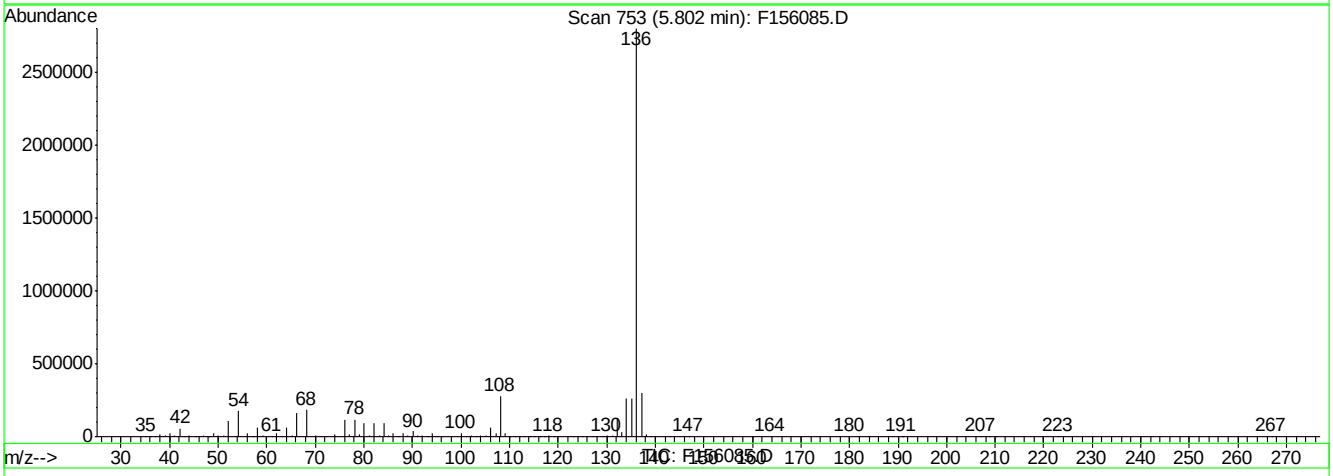
F156085.D MF6563AP9.M Fri Apr 08 16:00:54 2016 RT1

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

SGS ACCUTEST JC19473

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

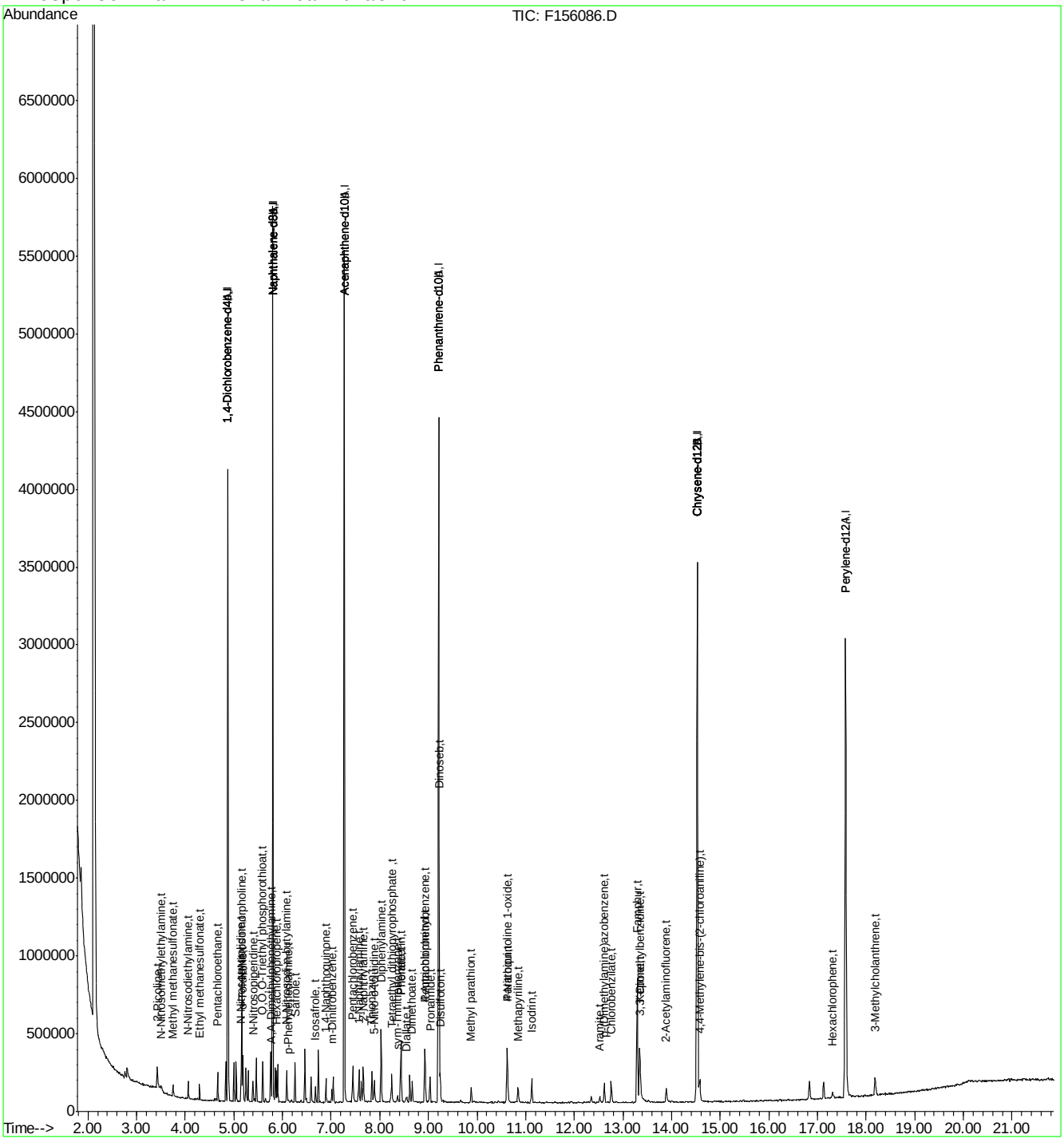
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

Manual Integration Approval Summary

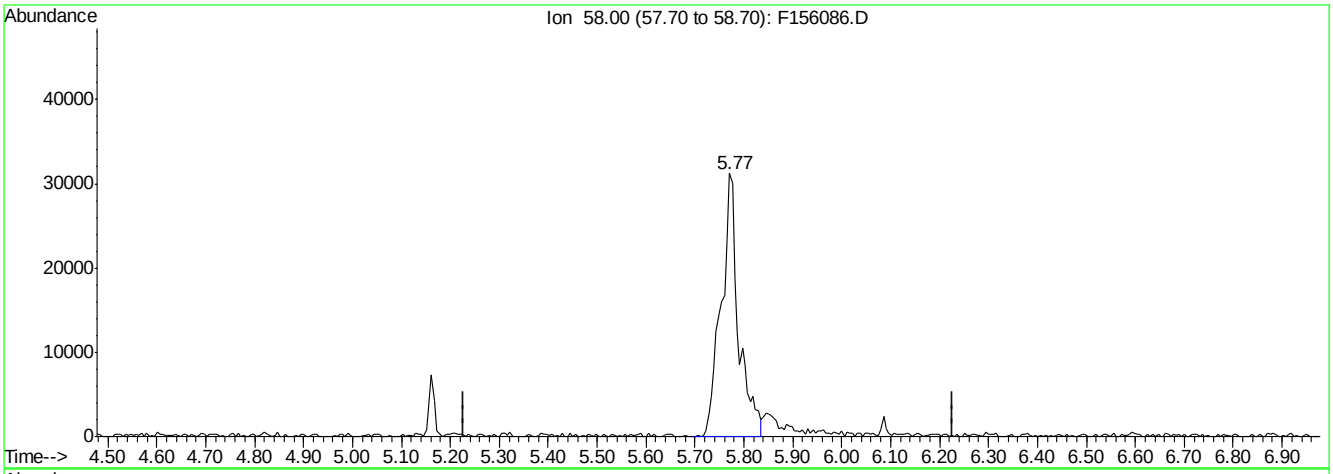
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156086.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 17:06	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

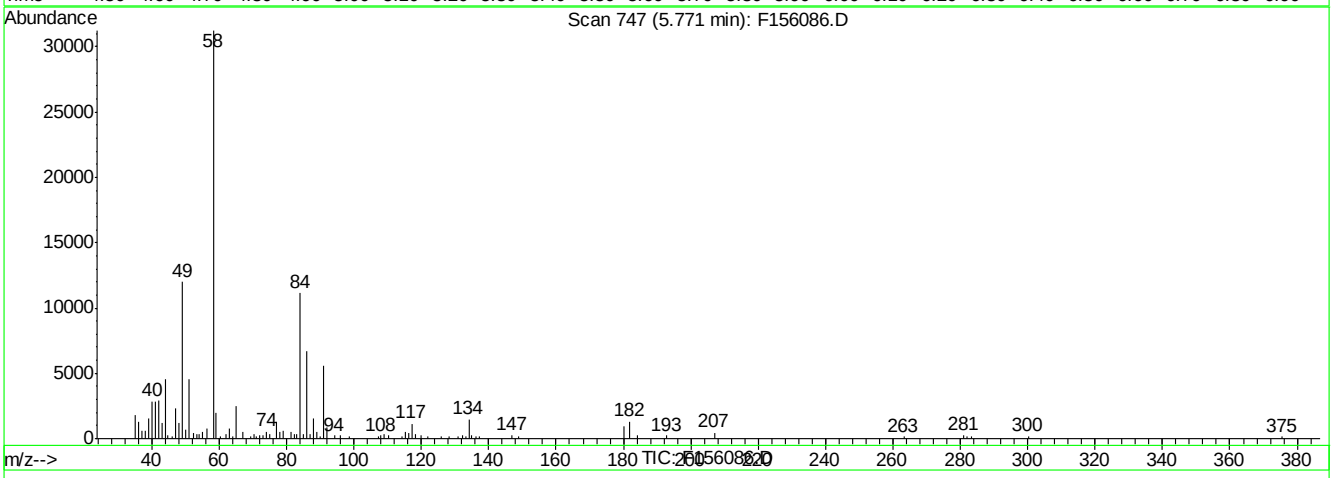
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.77	Split peak

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

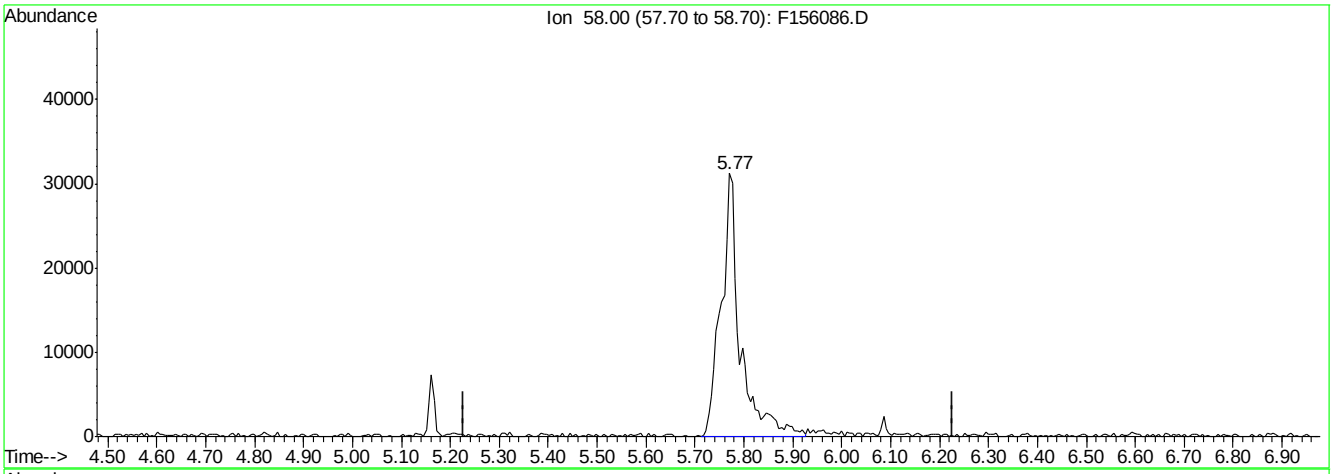
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

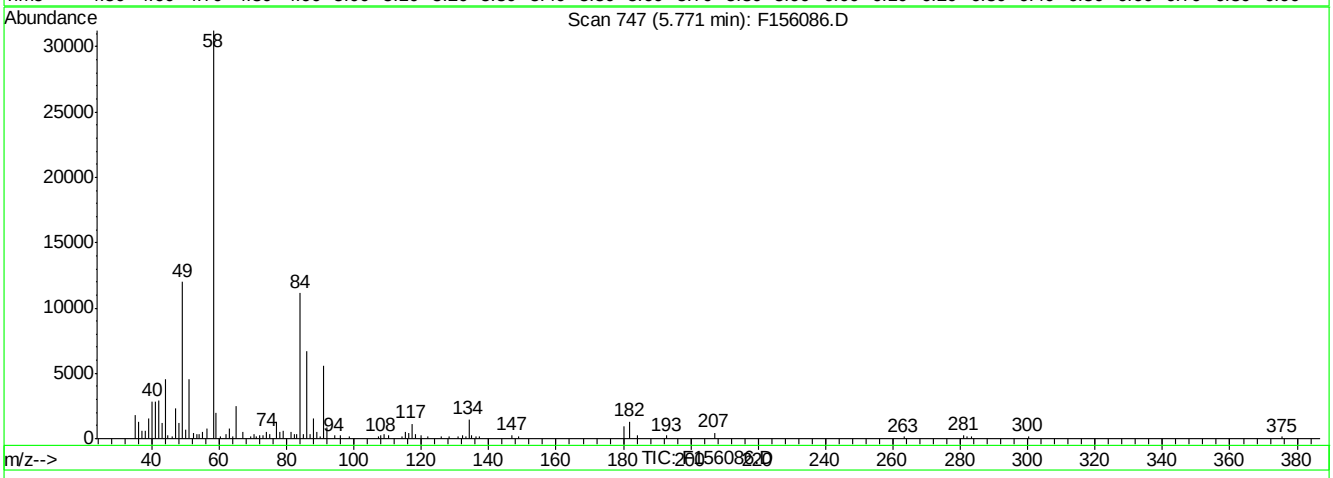
F156086.D MF6563AP9.M Fri Apr 08 16:03:09 2016 RT1

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
F156087.D MF6563AP9.M Fri Apr 08 17:17:54 2016 RT1

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

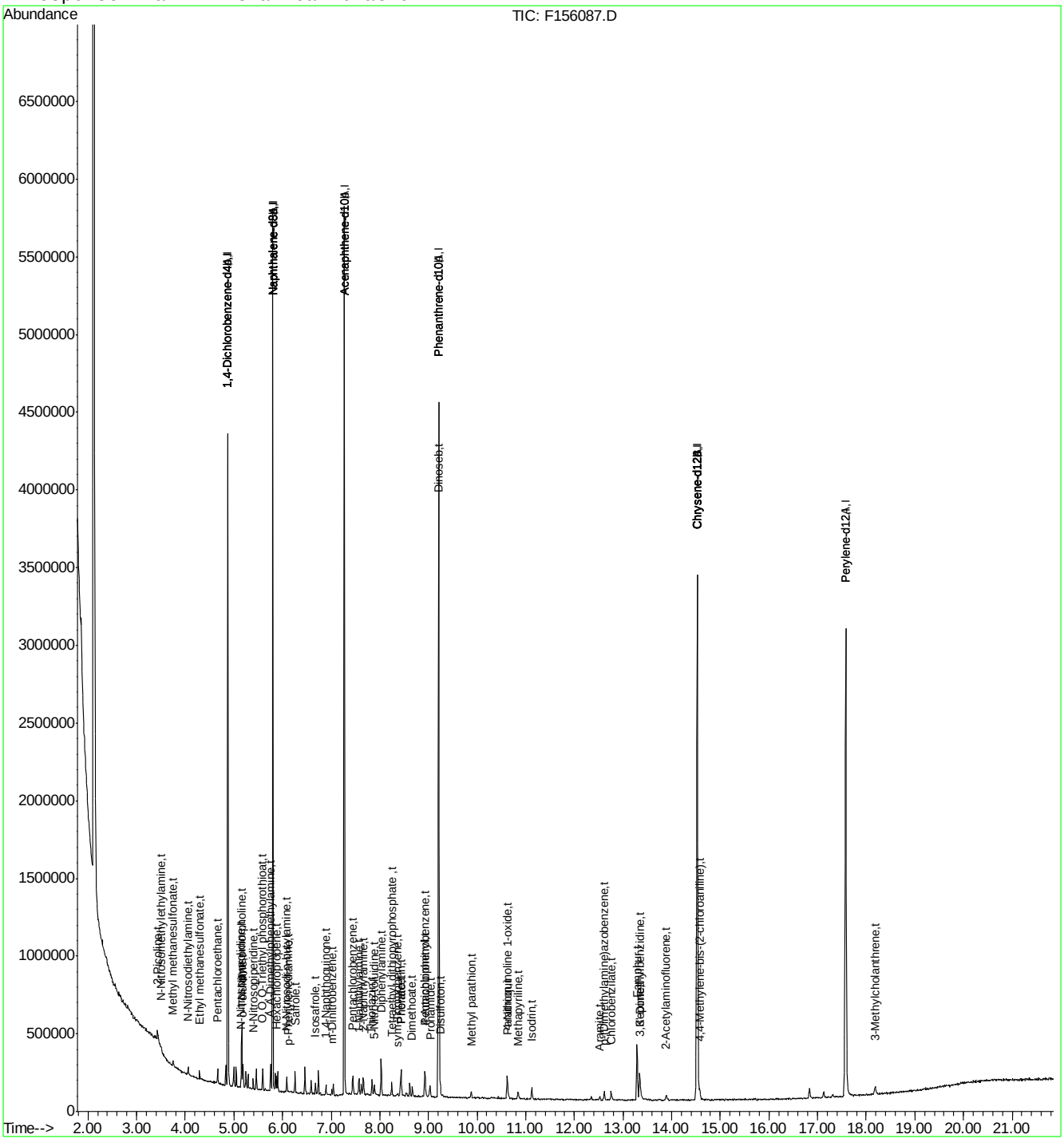
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



F156087.D MF6563AP9.M Fri Apr 08 17:17:54 2016 RT1 Page 3

Manual Integration Approval Summary

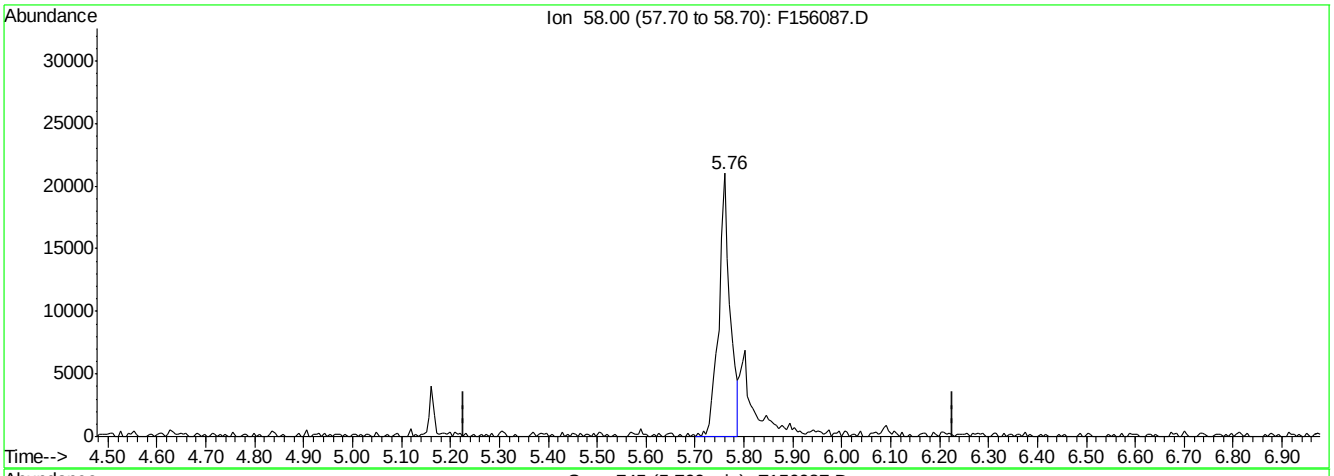
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156087.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 17:35	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

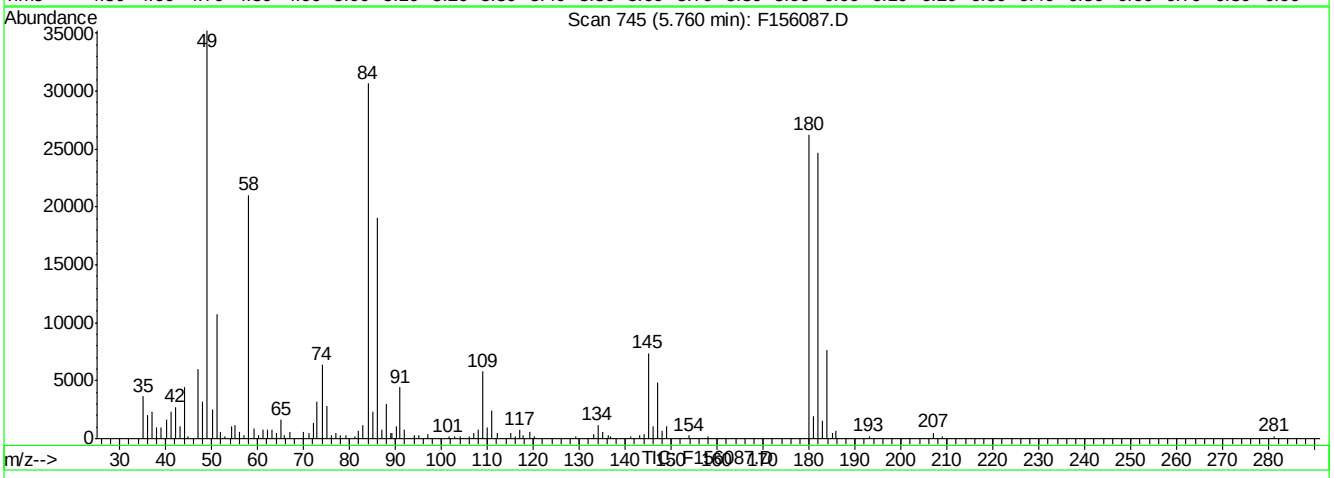
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.76	Split peak

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

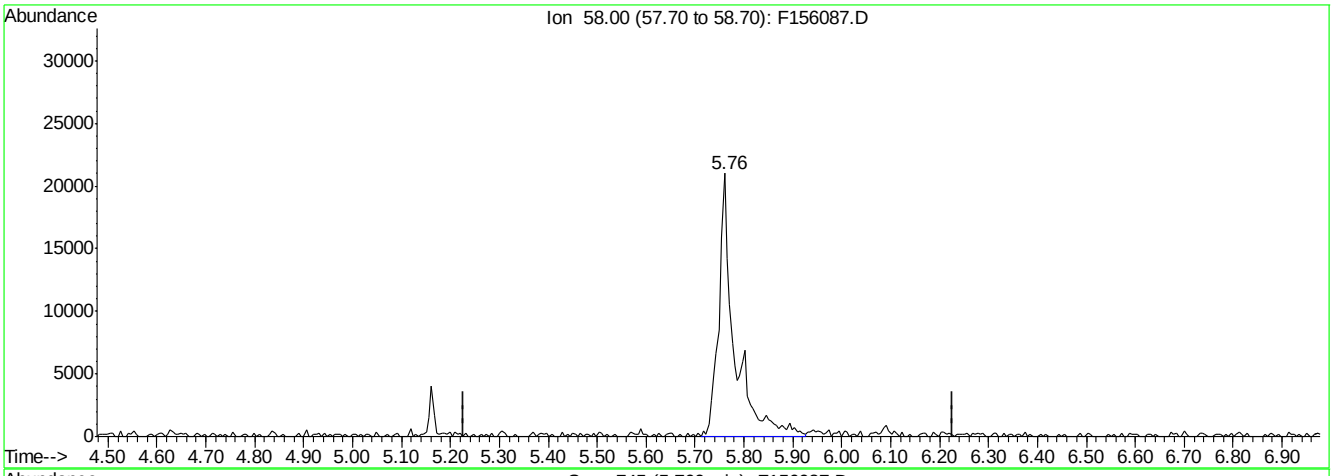
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

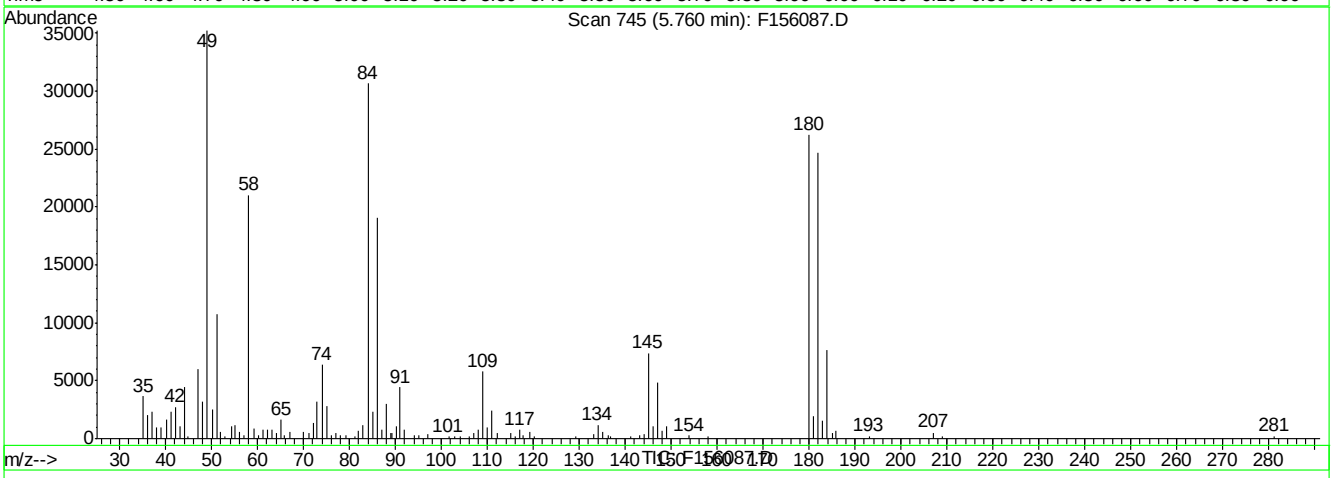
F156087.D MF6563AP9.M Fri Apr 08 16:05:11 2016 RT1

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

SGS ACCUTEST JC19473

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

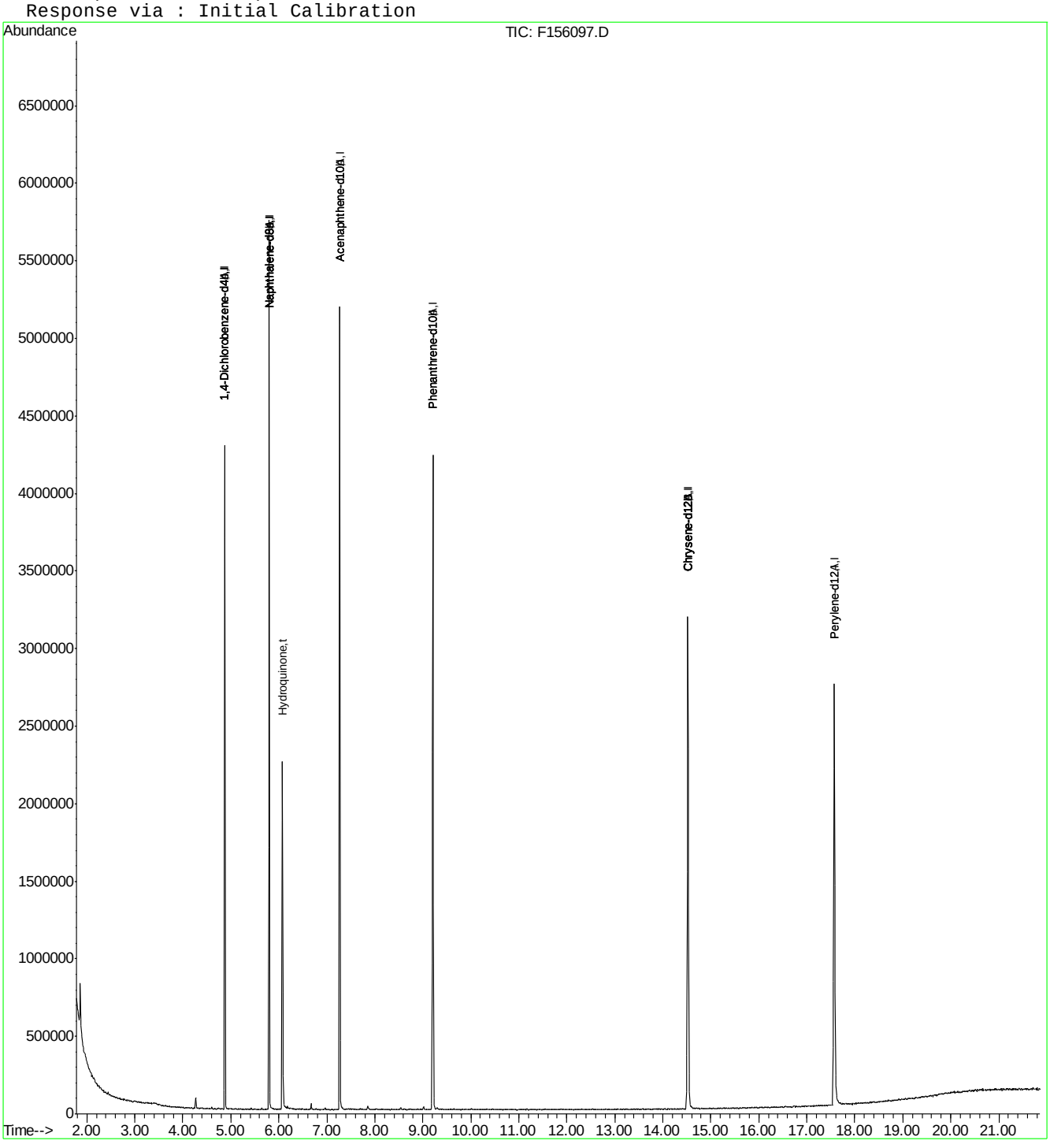
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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
F156102.D MF6563AP9.M Fri Apr 08 17:25:46 2016 RT1

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

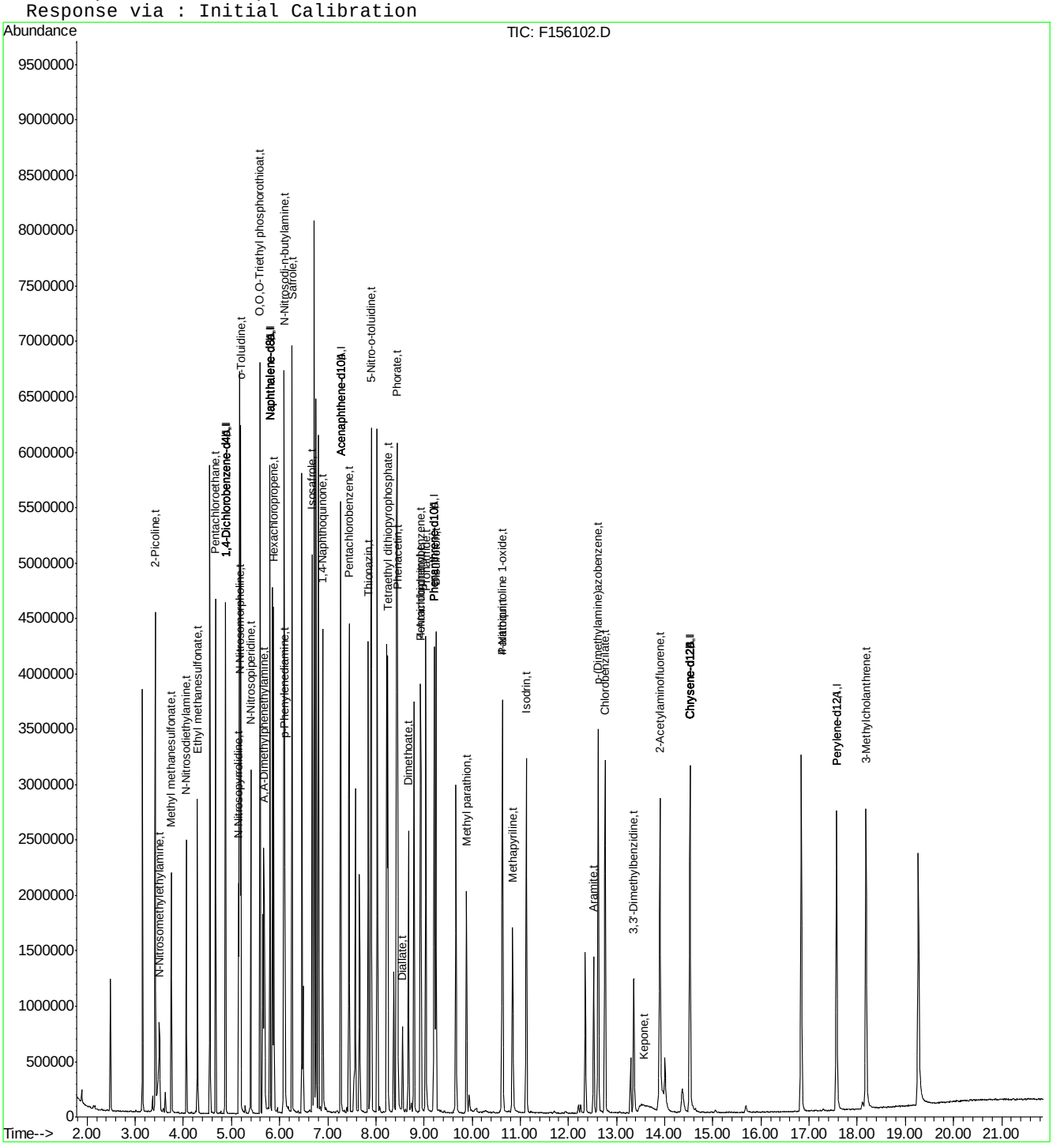
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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 JC19473

Manual Integration Approval Summary

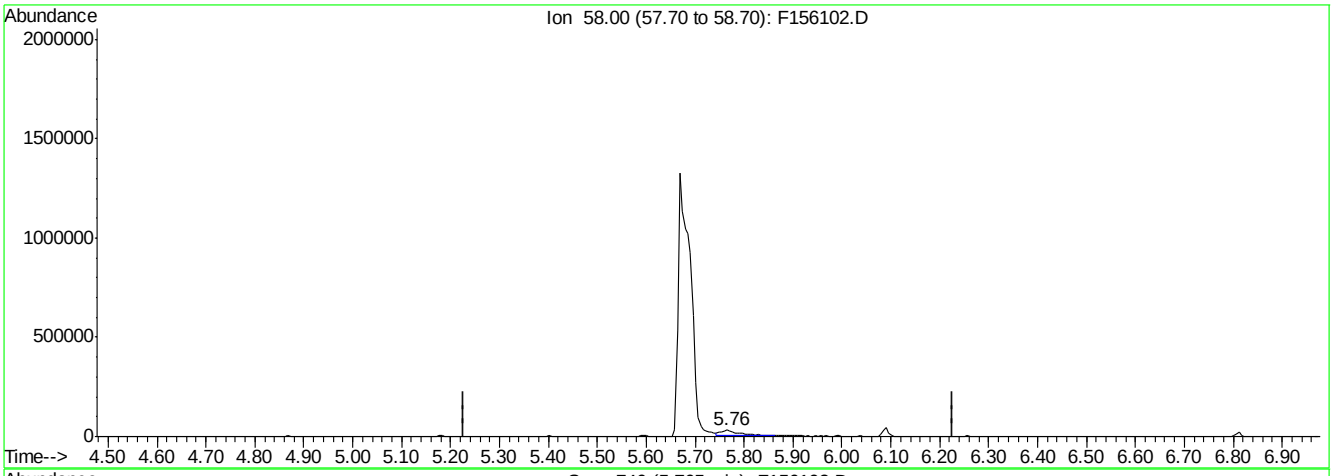
Sample Number:	EF6567-ICV6566	**Method:**	SW846 8270D
Lab FileID:	F156102.D	**Analyst approved:**	04/08/16 17:45 Kristi Schollenberger
Injection Time:	04/06/16 00:41	**Supervisor approved:**	04/11/16 09:37 Kristi Schollenberger

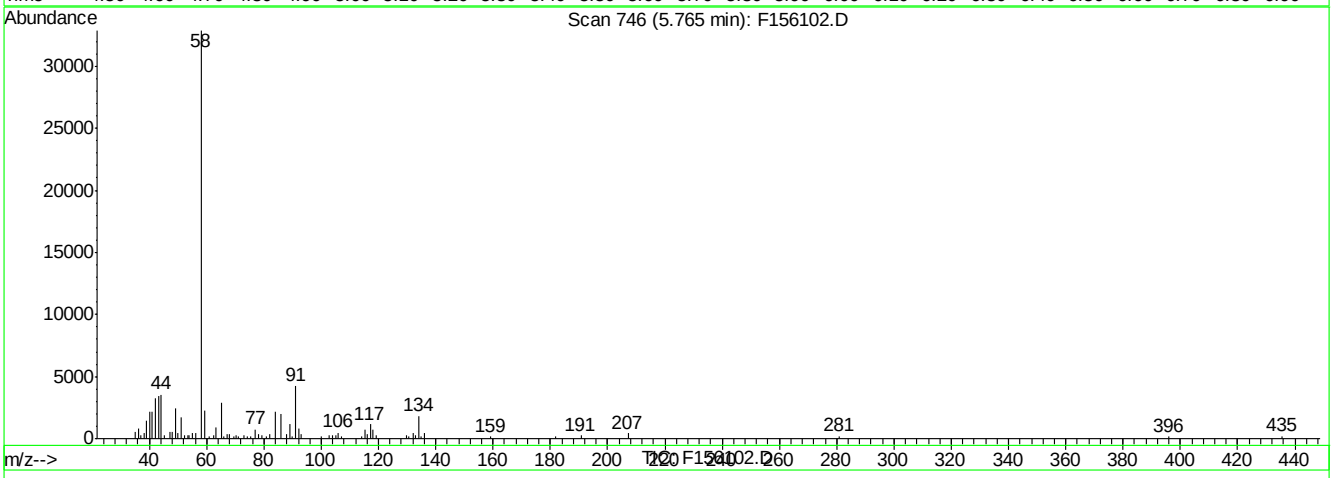
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.67	Split peak
Kepone	143-50-0		13.58	Split peak

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

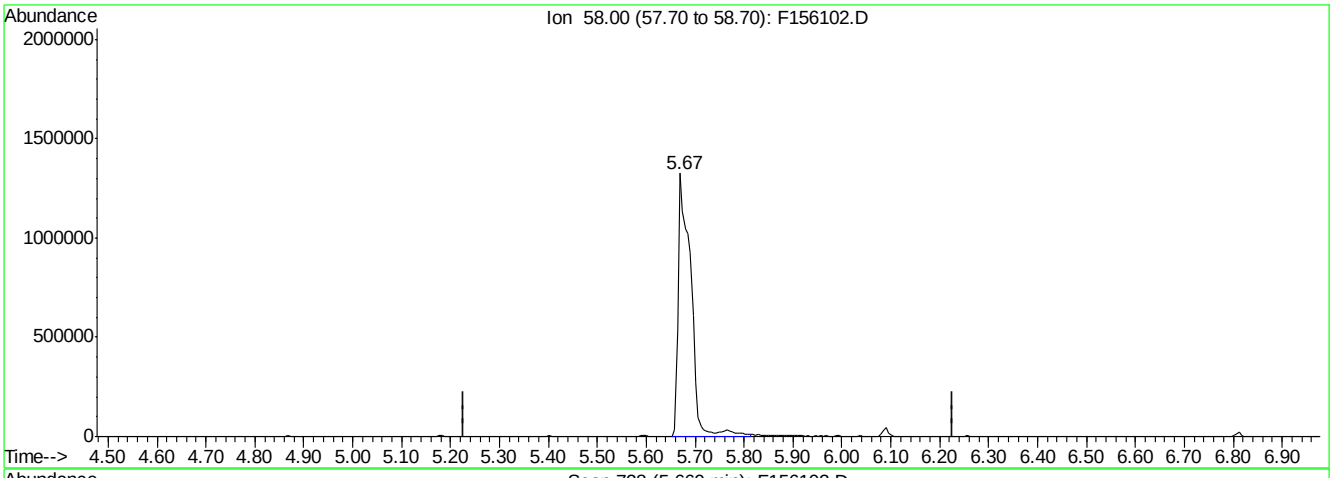
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

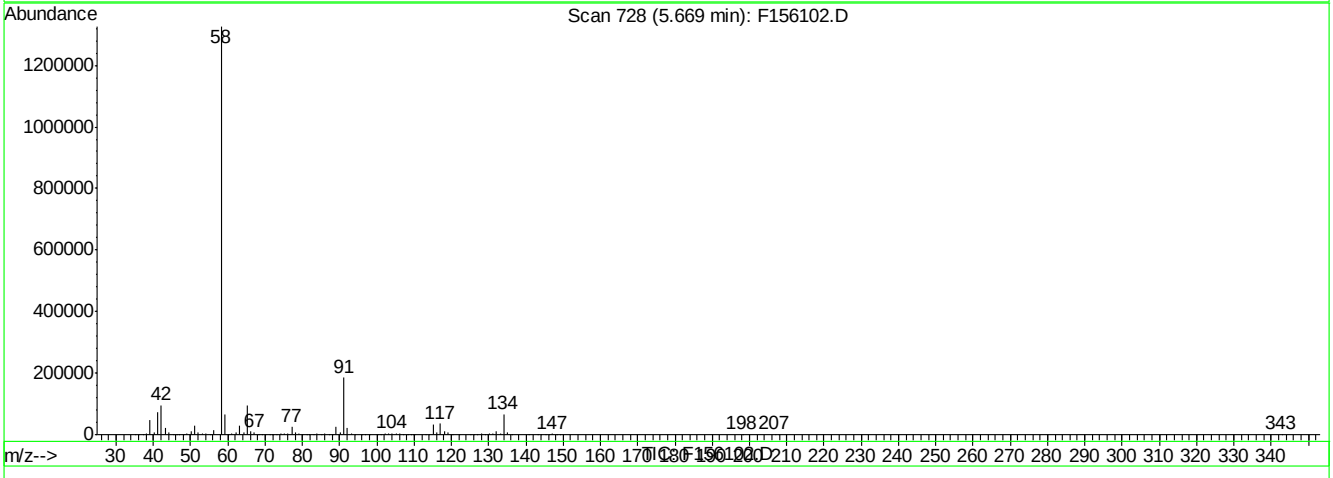
F156102.D MF6563AP9.M Fri Apr 08 16:50:48 2016 RT1

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

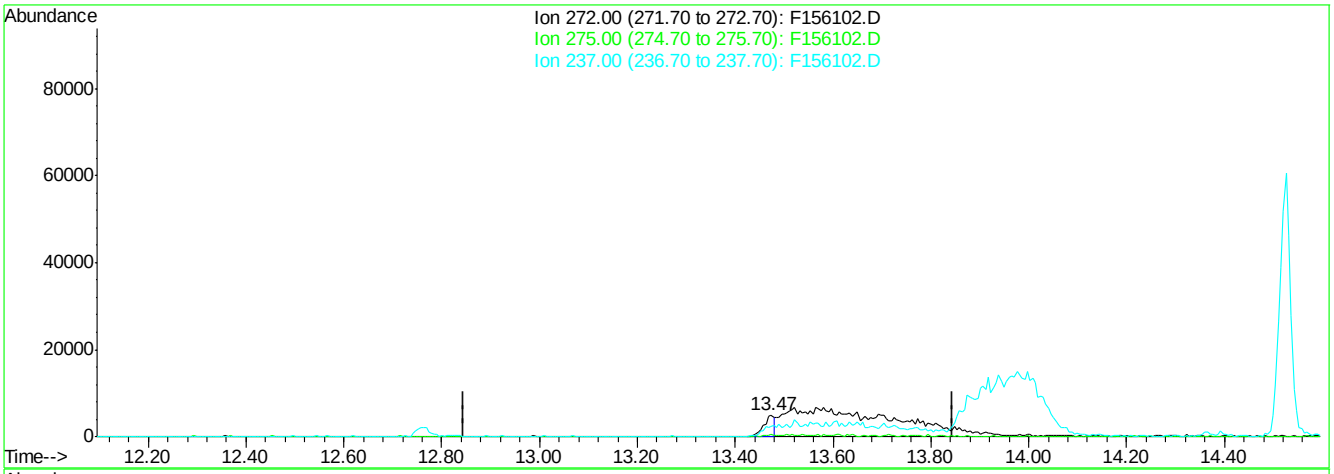
F156102.D MF6563AP9.M Fri Apr 08 16:51:00 2016 RT1

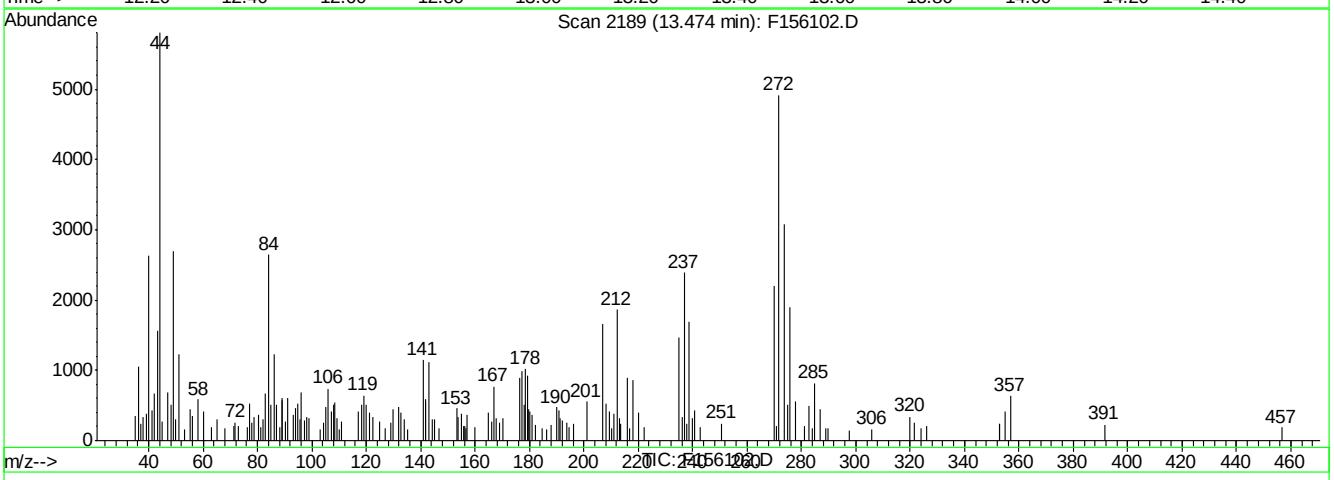
SGS ACCUTEST JC19473

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

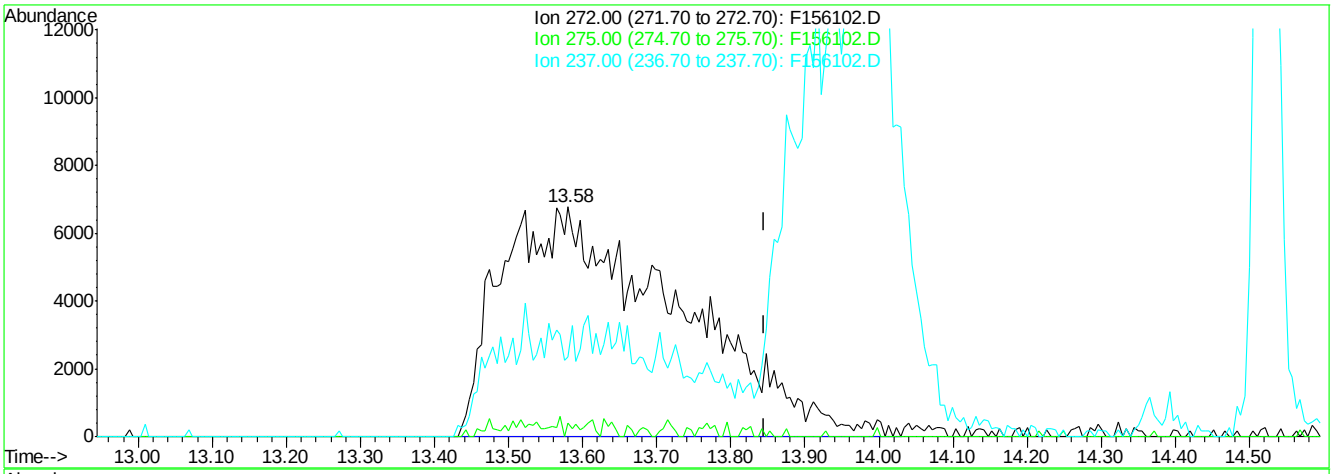
Ion	Exp%	Act%
272.00	100	100
275.00	5.40	14.59
237.00	52.60	39.54
0.00	0.00	0.00

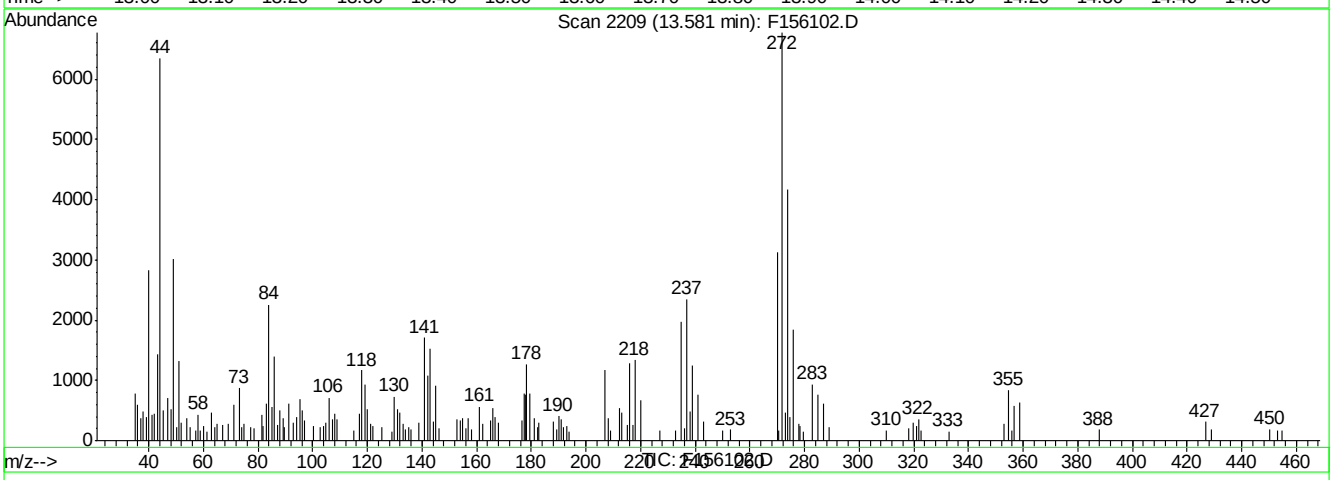
F156102.D MF6563AP9.M Fri Apr 08 16:53:37 2016 RT1

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

7.6.77.5

7

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

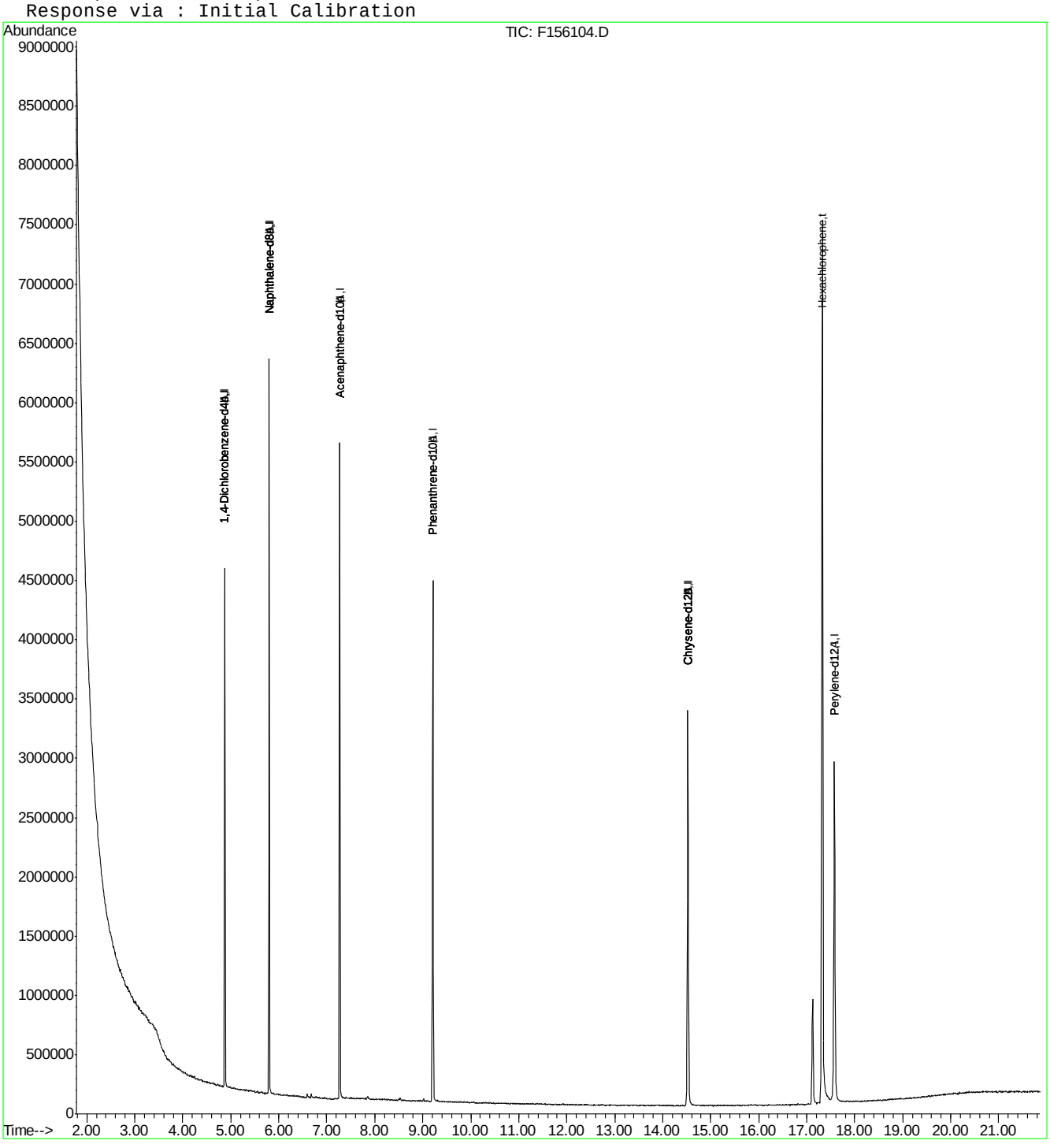
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

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

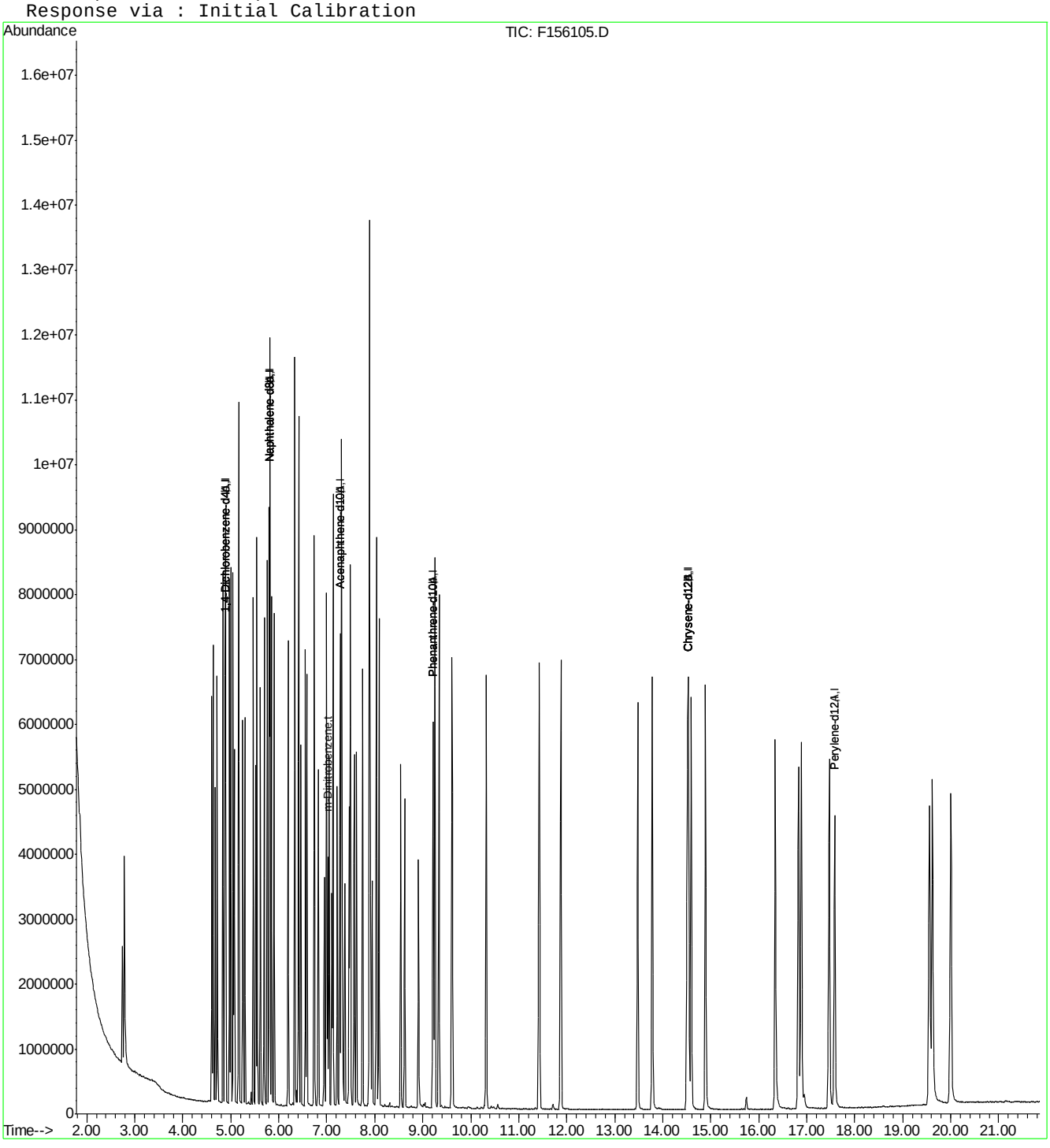
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



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%	

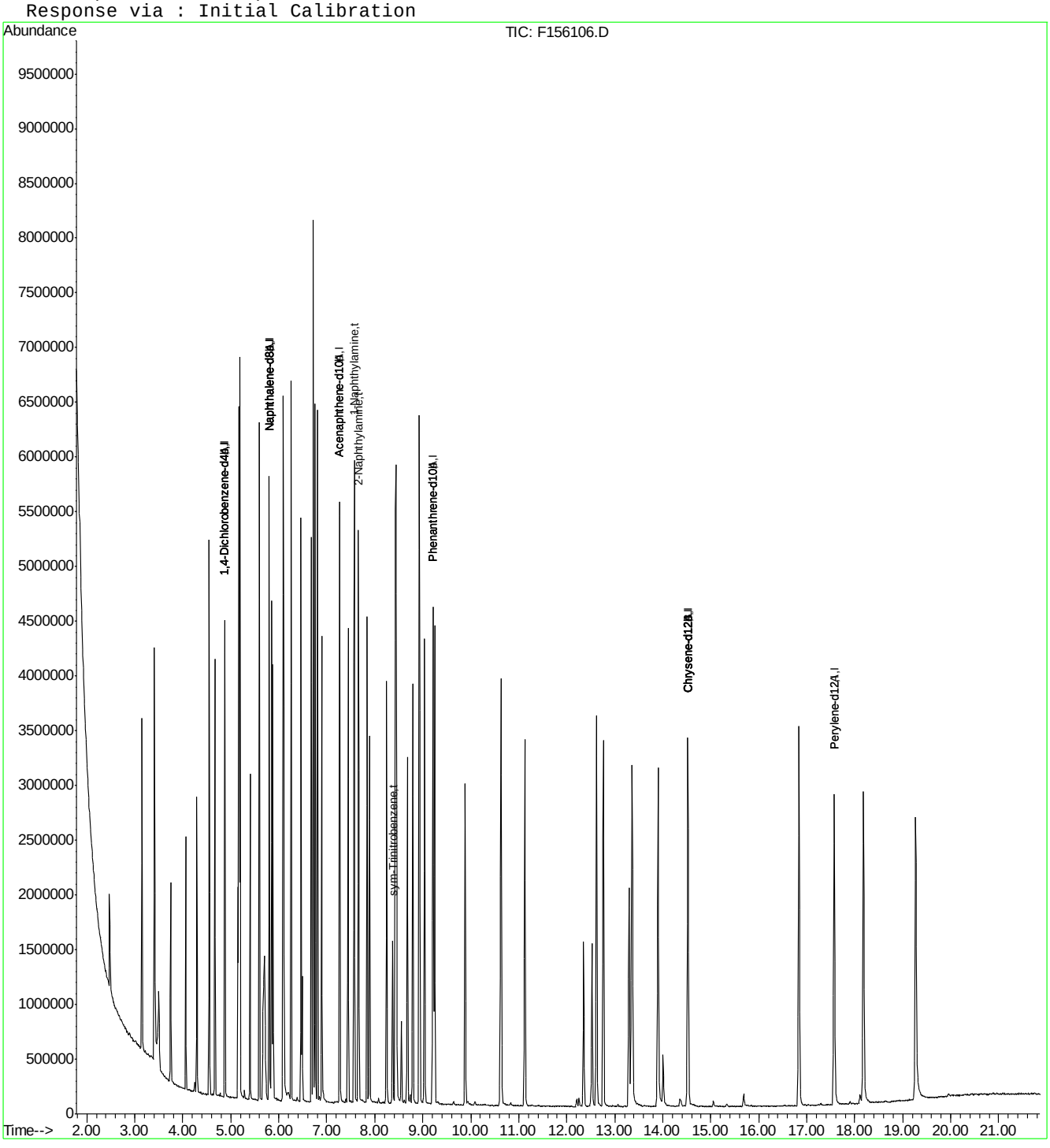
Target Compounds						Qvalue
129) 1-Naphthylamine	7.57	143	1988980	63.03	ppm	96
130) 2-Naphthylamine	7.66	143	1982031	53.50	ppm	99
146) sym-Trinitrobenzene	8.37	213	162718	40.91	ppm	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156106.D MF6563AP9.M Fri Apr 08 17:29:06 2016 RT1

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\EF6600\F156752.D Vial: 2
Acq On : 3 May 2016 5:22 pm Operator: linseyk
Sample : cc6563-25 Inst : MSF
Misc : op93535,ef6600 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 03 17:44:09 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 May 03 09:37:34 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	738905	40.00	ppm	0.00
24) Naphthalene-d8	5.73	136	3057349	40.00	ppm	0.00
47) Acenaphthene-d10	7.18	164	1785728	40.00	ppm	0.00
69) Phenanthrene-d10	9.08	188	2832613	40.00	ppm	-0.01
83) Chrysene-d12	14.37	240	2602458	40.00	ppm	0.00
92) Perylene-d12	17.42	264	2441524	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.80	152	738905	40.00	ppm	0.00
104) Naphthalene-d8b	5.73	136	3057349	40.00	ppm	0.00
106) Acenaphthene-d10b	7.18	164	1785728	40.00	ppm	0.00
108) Phenanthrene-d10b	9.08	188	2832613	40.00	ppm	-0.01
110) Chrysene-d12b	14.37	240	2602458	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.84	112	618280	23.79	ppm	0.01
Spiked Amount 50.000			Recovery = 47.58%			
8) Phenol-d5	4.56	99	818919	25.91	ppm	0.01
Spiked Amount 50.000			Recovery = 51.82%			
25) Nitrobenzene-d5	5.20	82	791028	27.71	ppm	-0.01
Spiked Amount 50.000			Recovery = 55.42%			
51) 2-Fluorobiphenyl	6.54	172	1335092	23.42	ppm	0.00
Spiked Amount 50.000			Recovery = 46.84%			
73) 2,4,6-Tribromophenol	8.08	330	168105	29.08	ppm	0.00
Spiked Amount 50.000			Recovery = 58.16%			
85) Terphenyl-d14	12.15	244	1280876	24.23	ppm	-0.02
Spiked Amount 50.000			Recovery = 48.46%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.39	88	265725	23.22	ppm		99
3) Pyridine	2.71	79	701185	26.01	ppm		96
4) N-Nitrosodimethylamine	2.67	42	265738	27.40	ppm		100
6) Indene	4.99	116	1168973	26.73	ppm		96
7) Cumene	4.21	105	1669192	28.42	ppm		93
9) Phenol	4.57	94	962441	28.61	ppm		94
10) Aniline	4.56	93	966619	26.26	ppm		75
11) bis(2-Chloroethyl)ether	4.61	93	629812	26.03	ppm		99
12) 2-Chlorophenol	4.66	128	671024	24.46	ppm		97
13) Decane	4.68	43	512027	21.70	ppm		94
14) 1,3-Dichlorobenzene	4.76	146	740820	24.35	ppm		99
15) 1,4-Dichlorobenzene	4.81	146	757514	24.95	ppm		99
16) Benzyl alcohol	4.90	108	438060	25.04	ppm		72
17) 1,2-Dichlorobenzene	4.93	146	697810	24.45	ppm		98
18) Acetophenone	5.10	105	971106	29.37	ppm		97
19) 2-Methylphenol	5.00	108	636205	27.08	ppm		97
20) 2,2'-oxybis(1-Chloropropan	5.00	121	221665	25.41	ppm	#	32
21) 3&4-Methylphenol	5.11	108	676068	28.06	ppm		99
22) n-Nitroso-di-n-propylamine	5.09	70	555050	31.09	ppm		97
23) Hexachloroethane	5.17	201	233499	24.83	ppm		93
26) Nitrobenzene	5.22	77	840623	28.11	ppm		86
27) Quinoline	5.98	129	1304700	22.08	ppm		98
28) Isophorone	5.39	82	1383805	27.10	ppm		95

(#) = qualifier out of range (m) = manual integration
F156752.D MF6563.M Wed May 04 09:21:41 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156752.D Vial: 2
Acq On : 3 May 2016 5:22 pm Operator: linseyk
Sample : cc6563-25 Inst : MSF
Misc : op93535,ef6600 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 03 17:44:09 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 May 03 09:37:34 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.45	139	356311	22.97	ppm		77
30)	2,4-Dimethylphenol	5.49	107	657535	26.91	ppm		97
31)	Benzoic acid	5.57	105	543974	26.63	ppm		98
32)	bis(2-Chloroethoxy)methane	5.55	93	761356	23.65	ppm		96
33)	2,4-Dichlorophenol	5.64	162	521009	21.35	ppm		96
34)	2,6-Dichlorophenol	5.79	162	529442	22.59	ppm		97
35)	1,3,5-Trichlorobenzene	5.46	180	584461	22.75	ppm		98
36)	1,2,4-Trichlorobenzene	5.68	180	575439	22.81	ppm		98
37)	1,2,3-Trichlorobenzene	5.85	180	556624	22.36	ppm		98
38)	Naphthalene	5.74	128	2075159	24.86	ppm		99
39)	4-Chloroaniline	5.78	127	791943	22.97	ppm		98
40)	2,3-Dichloroaniline	6.48	161	646511	22.74	ppm		96
41)	Caprolactam	6.03	55	242188	20.88	ppm		92
42)	Hexachlorobutadiene	5.83	225	300063	25.12	ppm		99
43)	4-Chloro-3-methylphenol	6.15	107	623588	26.05	ppm		99
44)	2-Methylnaphthalene	6.25	141	1102093	23.41	ppm		96
45)	1-Methylnaphthalene	6.33	141	1143487	23.60	ppm		99
46)	Dimethylnaphthalene	6.77	156	1144594	23.31	ppm		97
48)	Hexachlorocyclopentadiene	6.37	237	679521	56.08	ppm		99
49)	2,4,6-Trichlorophenol	6.48	196	366302	24.18	ppm		99
50)	2,4,5-Trichlorophenol	6.53	196	395815	23.72	ppm		99
52)	2-Chloronaphthalene	6.65	162	1205471	23.36	ppm		95
53)	Biphenyl	6.63	154	1575033	23.77	ppm		99
54)	2-Nitroaniline	6.74	65	441783	30.21	ppm		89
55)	Dimethylphthalate	6.90	163	1398566	24.22	ppm		99
56)	Acenaphthylene	7.03	152	2004231	23.96	ppm		99
57)	2,6-Dinitrotoluene	6.96	165	301116	24.13	ppm		83
58)	3-Nitroaniline	7.13	138	349539	22.37	ppm		78
59)	Acenaphthene	7.21	153	1255894	23.91	ppm		94
60)	2,4-Dinitrophenol	7.23	184	331885	46.67	ppm	#	51
61)	4-Nitrophenol	7.34	109	203190	27.68	ppm		98
62)	Dibenzofuran	7.39	168	1656736	23.11	ppm		98
63)	2,4-Dinitrotoluene	7.37	165	429862	25.41	ppm		89
64)	2,3,4,6-Tetrachlorophenol	7.53	232	294314	23.39	ppm		95
65)	Diethylphthalate	7.64	149	1437156	25.18	ppm		99
66)	Fluorene	7.78	166	1387546	25.15	ppm		98
67)	4-Chlorophenyl-phenylether	7.77	204	595194	24.48	ppm		91
68)	4-Nitroaniline	7.81	138	347540	22.03	ppm		98
70)	4,6-Dinitro-2-methylphenol	7.84	198	248308	27.75	ppm		88
71)	n-Nitrosodiphenylamine	7.92	169	925260	22.82	ppm		100
72)	1,2-Diphenylhydrazine	7.98	77	1673077	29.86	ppm		93
74)	4-Bromophenyl-phenylether	8.42	248	336184	24.67	ppm		92
75)	Hexachlorobenzene	8.50	284	345685	26.58	ppm		97
76)	Pentachlorophenol	8.80	266	459321	53.61	ppm		100
77)	Phenanthrene	9.12	178	1988985	24.41	ppm		99
78)	Anthracene	9.20	178	2022894	24.80	ppm		99
79)	Carbazole	9.48	167	1792251	23.44	ppm		99
80)	Di-n-butylphthalate	10.18	149	2415162	25.29	ppm		98
81)	Fluoranthene	11.27	202	2011610	24.89	ppm		97

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

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156752.D Vial: 2
Acq On : 3 May 2016 5:22 pm Operator: linseyk
Sample : cc6563-25 Inst : MSF
Misc : op93535,ef6600 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 03 17:44:09 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 May 03 09:37:34 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.97	57	798311	24.08	ppm	92
84)	Pyrene	11.72	202	2111775	22.88	ppm	98
86)	Butylbenzylphthalate	13.32	149	1059627	23.38	ppm	88
87)	Butyl stearate	13.60	56	521749	21.24	ppm	85
88)	Benzo[a]anthracene	14.35	228	1838231	23.32	ppm	99
89)	3,3'-Dichlorobenzidine	14.39	252	676762	24.65	ppm	98
90)	Chrysene	14.42	228	1878210	23.97	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.72	149	1482289	23.59	ppm	95
93)	Di-n-octylphthalate	16.17	149	2545845	23.80	ppm	97
94)	Benzo[b]fluoranthene	16.66	252	1916395	25.40	ppm	100
95)	Benzo[k]fluoranthene	16.72	252	1839461	24.91	ppm	95
96)	Benzo[a]pyrene	17.29	252	1684571	24.39	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.36	276	1620502	25.43	ppm	97
98)	Dibenz(a,h)acridine	18.99	279	1400820	25.59	ppm	98
99)	Dibenz[a,h]anthracene	19.41	278	1648588	26.74	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.67	256	846676	28.74	ppm	97
101)	Benzo[g,h,i]perylene	19.78	276	1774961	25.77	ppm	95

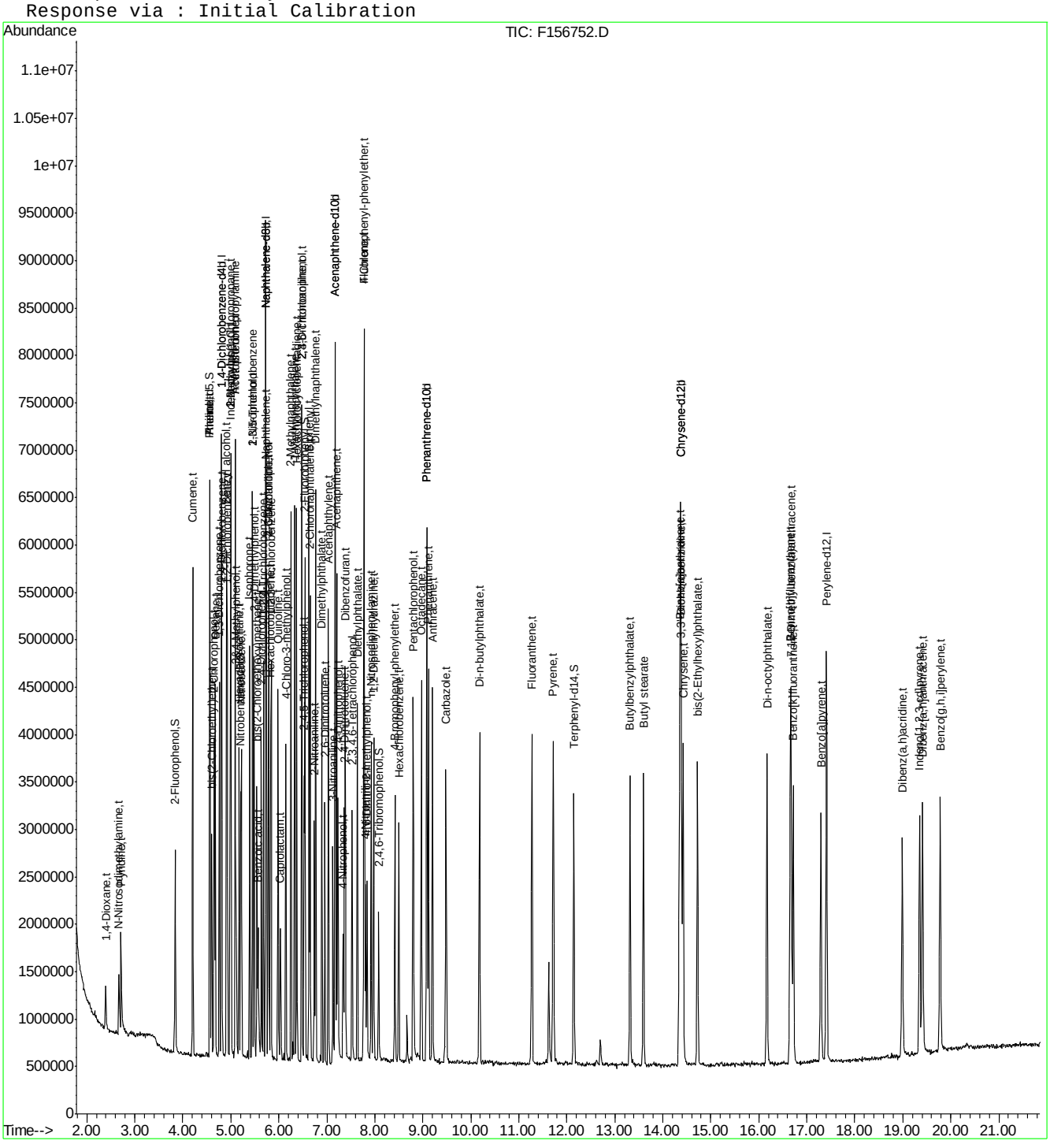
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156752.D Vial: 2
Acq On : 3 May 2016 5:22 pm Operator: linseyk
Sample : cc6563-25 Inst : MSF
Misc : op93535,ef6600 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 8:45 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 May 03 09:37:34 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156753.D Vial: 3
Acq On : 3 May 2016 5:51 pm Operator: linseyk
Sample : cc6564-25 Inst : MSF
Misc : op93535,ef6600 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 03 18:13:16 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 May 03 09:37:34 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	692154	40.00	ppm	0.00
24) Naphthalene-d8	5.72	136	2859963	40.00	ppm	-0.01
47) Acenaphthene-d10	7.18	164	1751372	40.00	ppm	0.00
69) Phenanthrene-d10	9.08	188	2842958	40.00	ppm	-0.01
83) Chrysene-d12	14.37	240	2645622	40.00	ppm	-0.01
92) Perylene-d12	17.41	264	2500189	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.80	152	692154	40.00	ppm	0.00
104) Naphthalene-d8b	5.72	136	2859963	40.00	ppm	-0.01
106) Acenaphthene-d10b	7.18	164	1751372	40.00	ppm	0.00
108) Phenanthrene-d10b	9.08	188	2842958	40.00	ppm	-0.01
110) Chrysene-d12b	14.37	240	2645622	40.00	ppm	-0.01

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%		

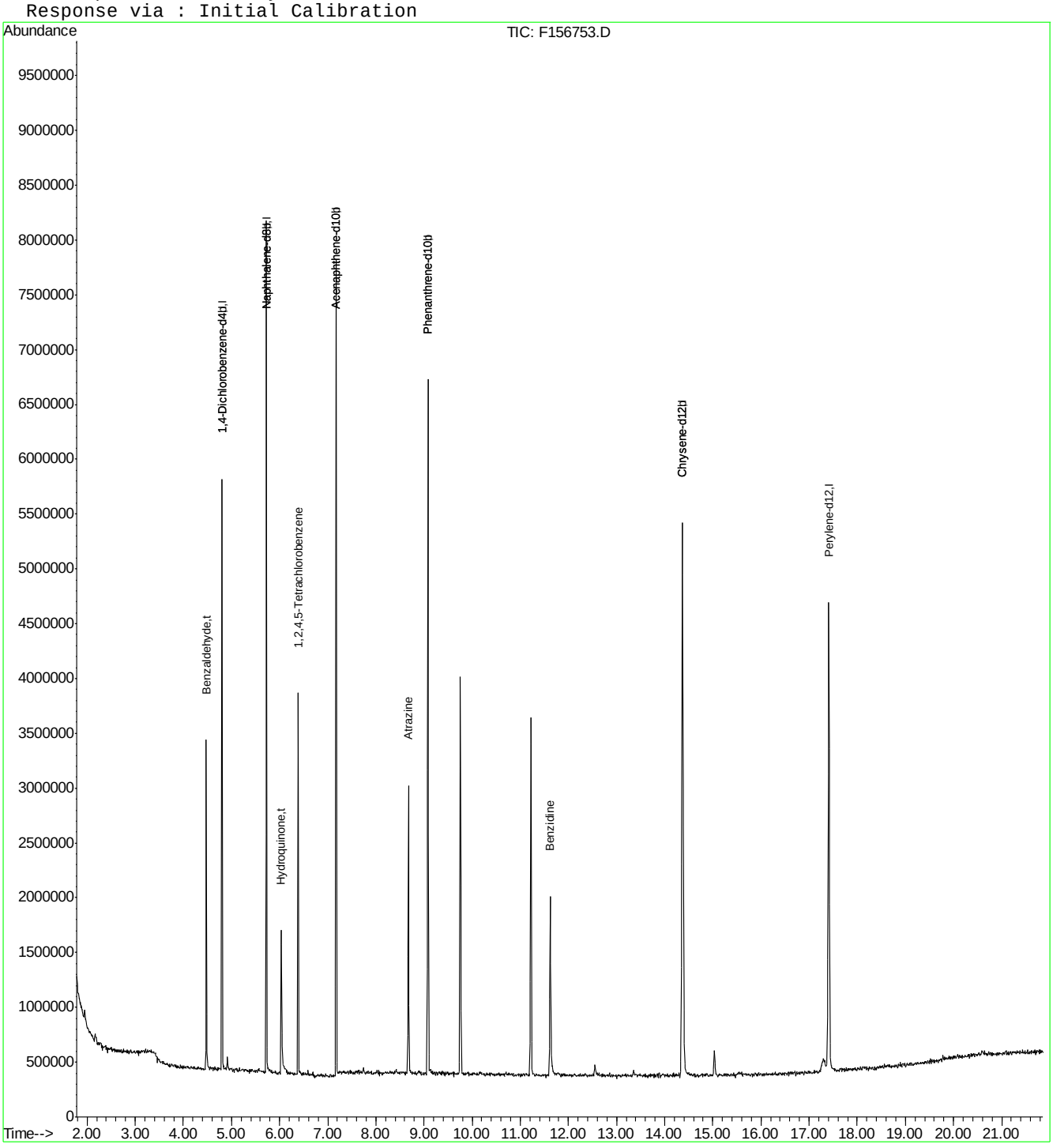
Target Compounds						Qvalue
103) Benzaldehyde	4.48	105	462178	23.71	ppm	98
105) Hydroquinone	6.03	110	575537	24.66	ppm	98
107) 1,2,4,5-Tetrachlorobenzene	6.38	216	482259	19.79	ppm	99
109) Atrazine	8.68	200	340987	24.95	ppm	99
111) Benzidine	11.62	184	985940	21.44	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156753.D MF6563.M Wed May 04 09:29:51 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6600\F156753.D Vial: 3
Acq On : 3 May 2016 5:51 pm Operator: linseyk
Sample : cc6564-25 Inst : MSF
Misc : op93535,ef6600 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 4 9:29 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 May 03 09:37:34 2016
Response via : Initial Calibration



F156753.D MF6563.M Wed May 04 09:29:51 2016 RT1 Page 2

SGS ACCUTEST JC19473

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 Page 2

7.6.83

7

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

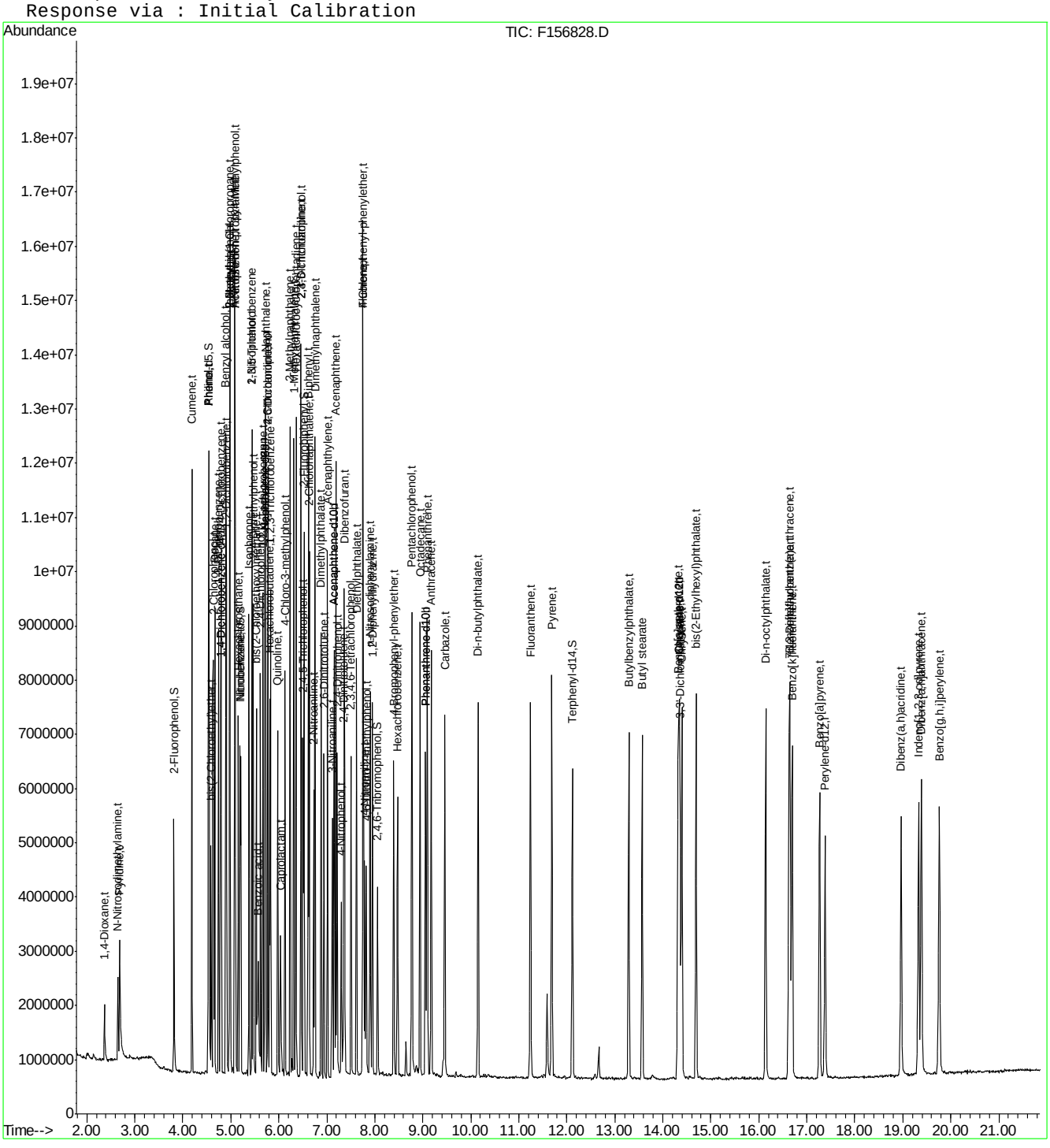
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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

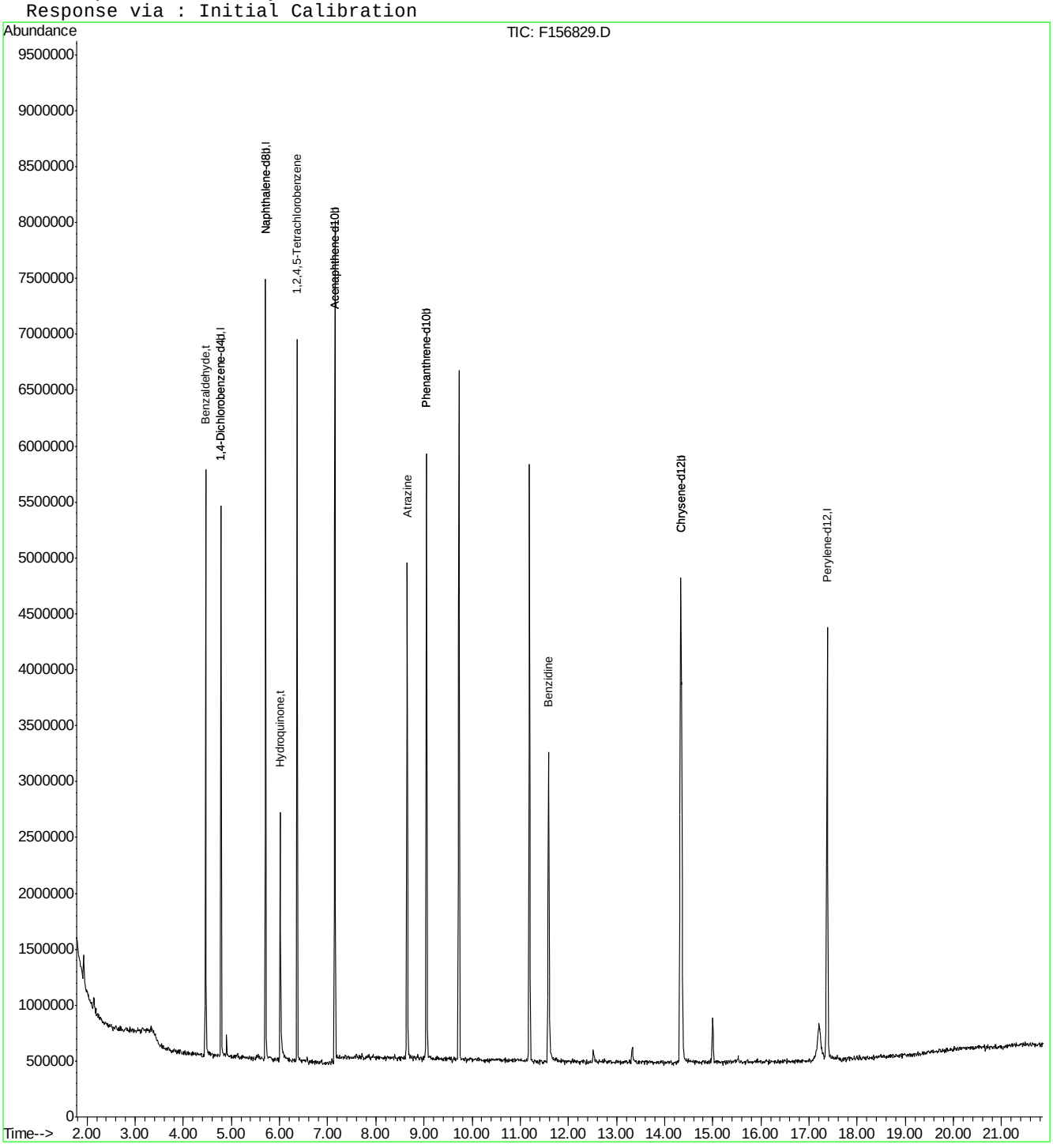
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156829.D MF6563.M Mon May 09 09:58:38 2016 RT1

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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
F156831.D MF6563AP9.M Mon May 09 10:02:49 2016 RT1

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

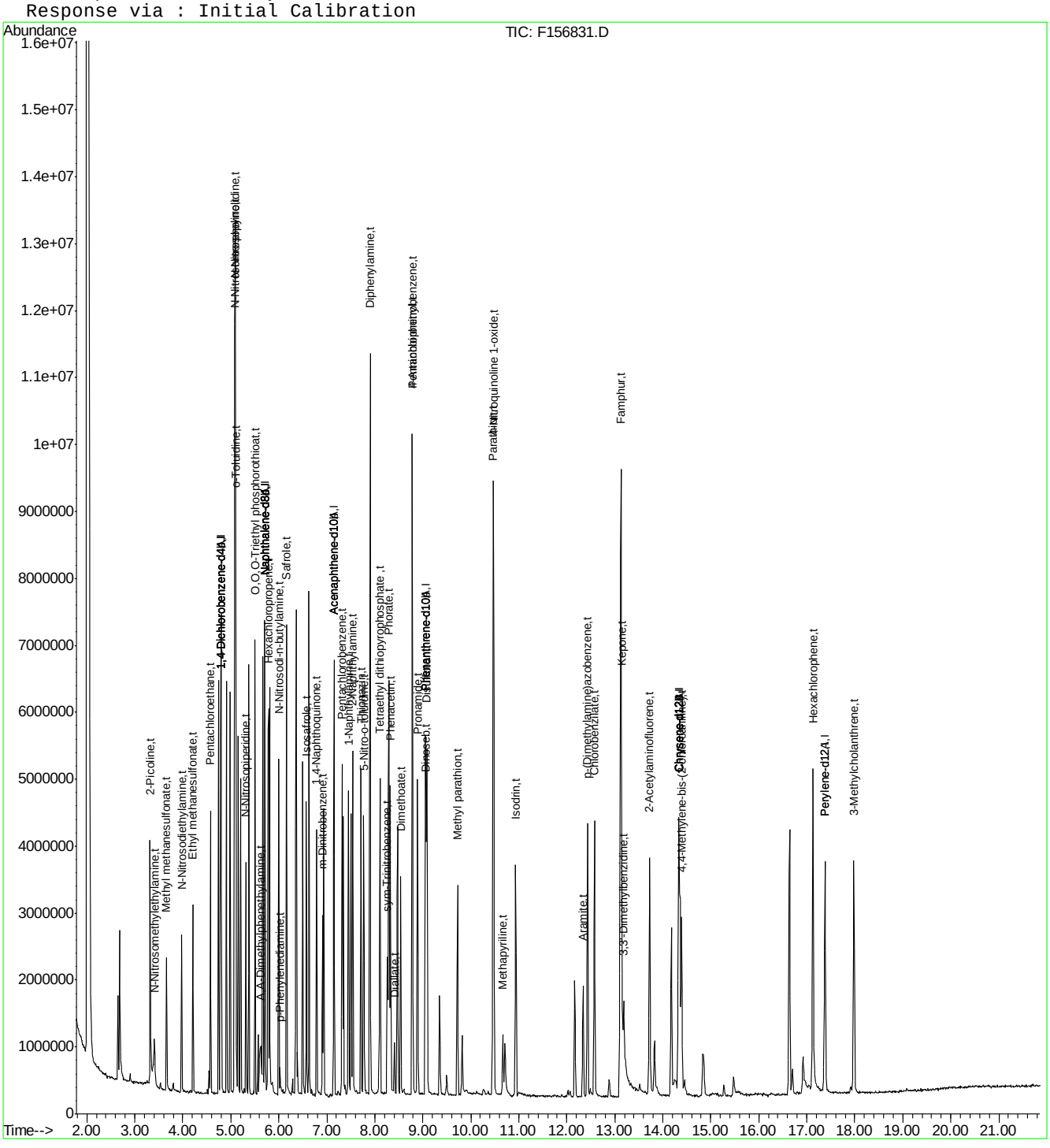
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



Manual Integration Approval Summary

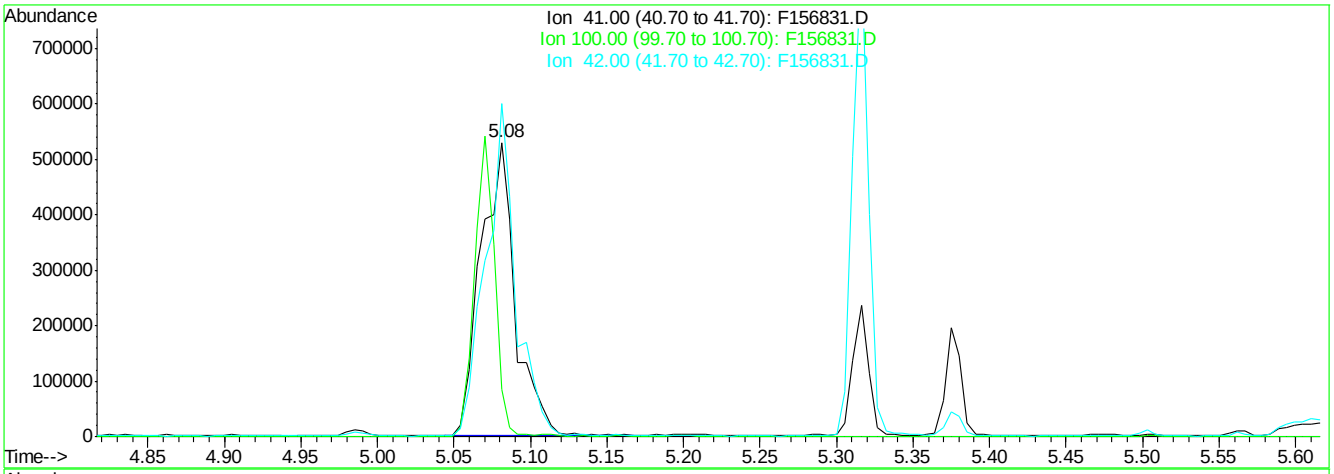
Sample Number:	EF6603-CC6566	**Method:**	SW846 8270D
Lab FileID:	F156831.D	**Analyst approved:**	05/09/16 11:40 Linsey Kirschmann
Injection Time:	05/05/16 12:01	**Supervisor approved:**	05/09/16 12:57 Nina Pandya

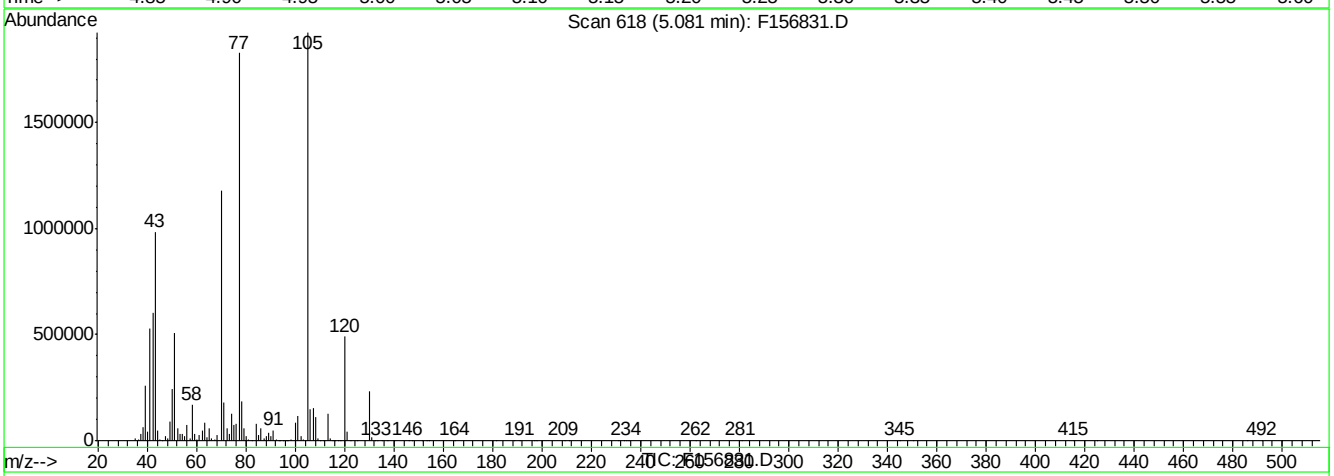
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.08	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.62	Poor instrument integration
p-Phenylenediamine	106-50-3		6.02	Poor instrument integration
Methapyrilene	91-80-5		10.66	Split peak

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

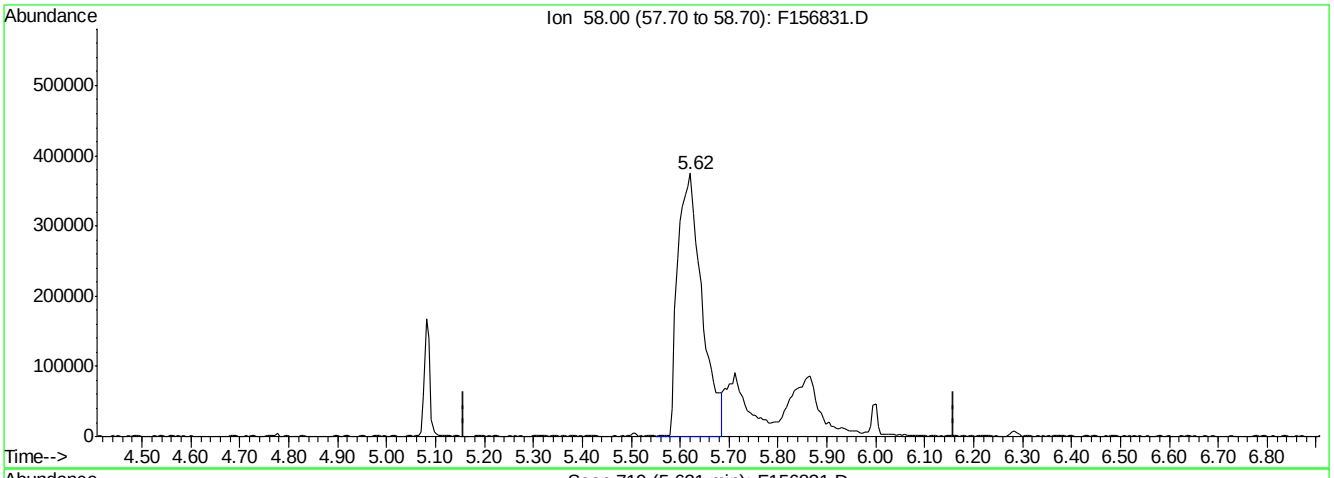
Ion	Exp%	Act%
41.00	100	100
100.00	171.00	15.90#
42.00	64.40	113.20#
0.00	0.00	0.00

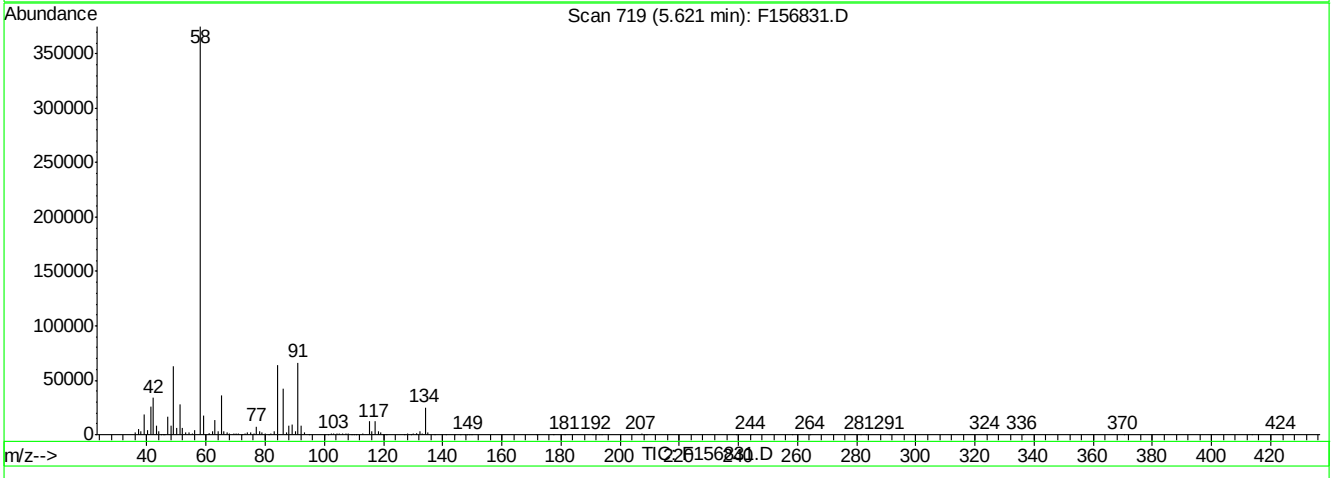
F156831.D MF6563AP9.M Thu May 05 12:25:53 2016 RT1

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

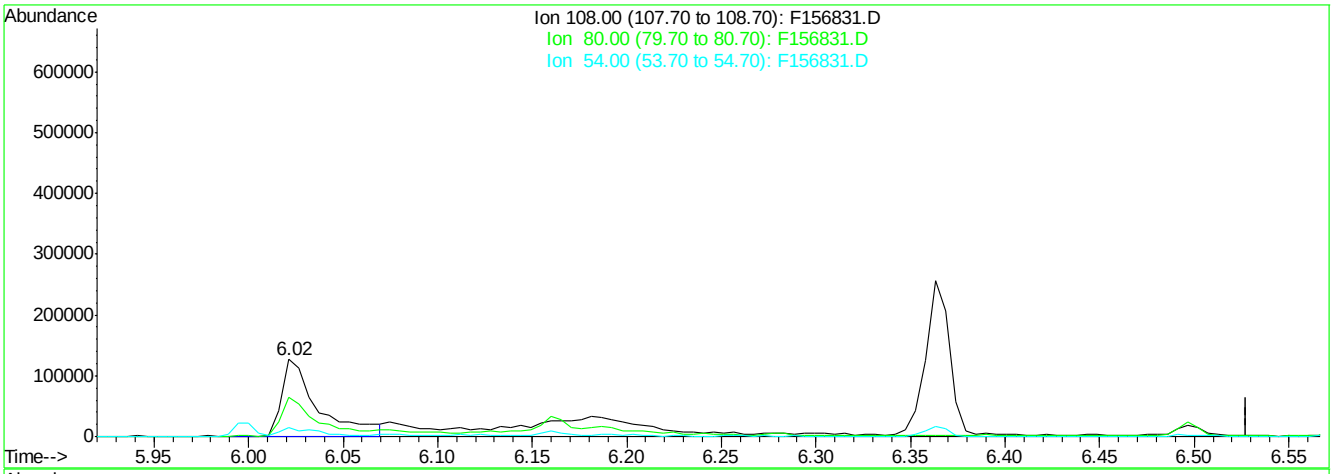
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

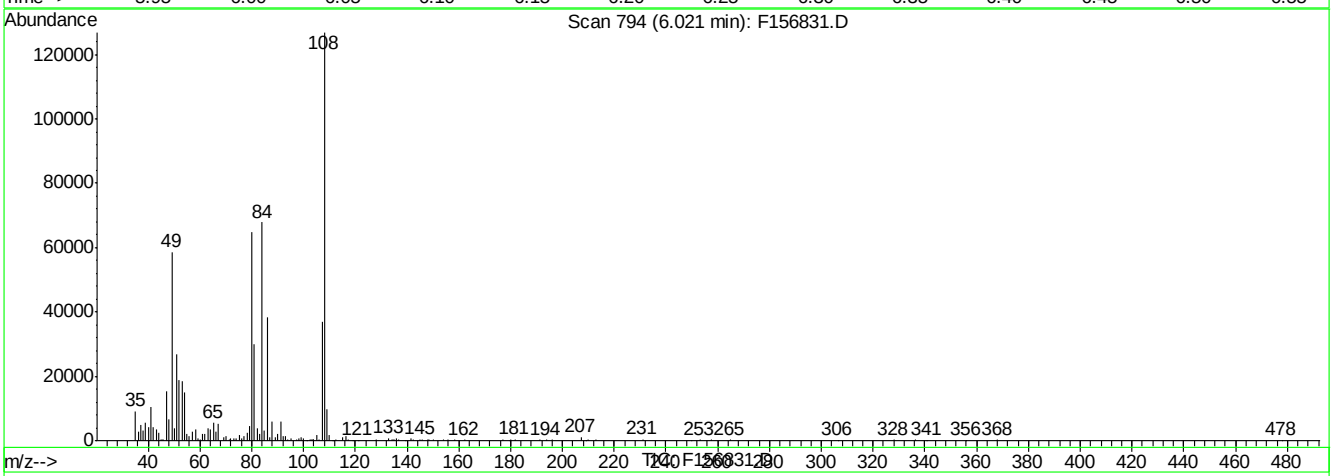
F156831.D MF6563AP9.M Thu May 05 12:26:10 2016 RT1

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

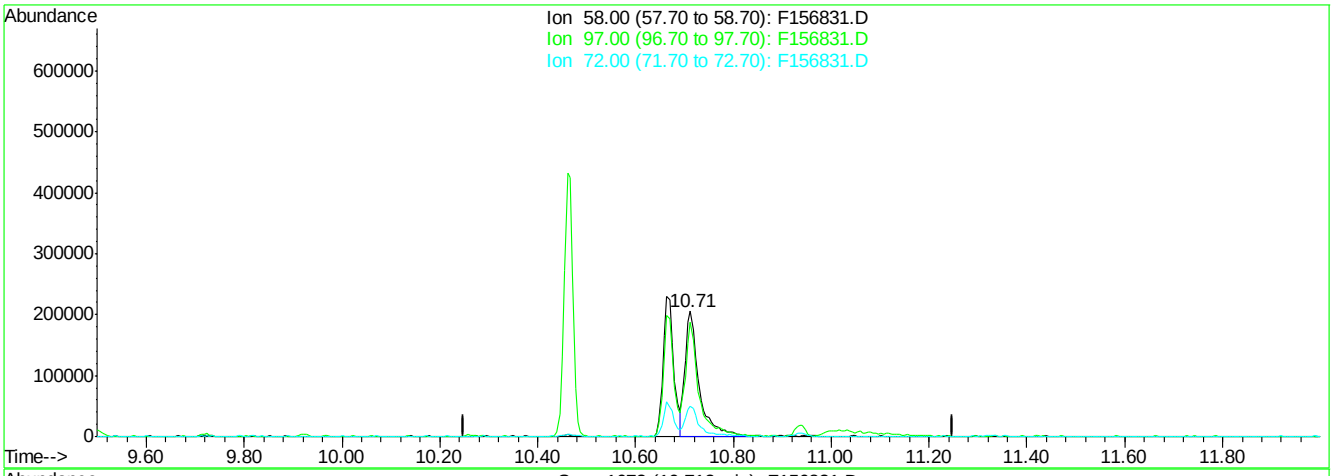
F156831.D MF6563AP9.M Thu May 05 12:26:19 2016 RT1

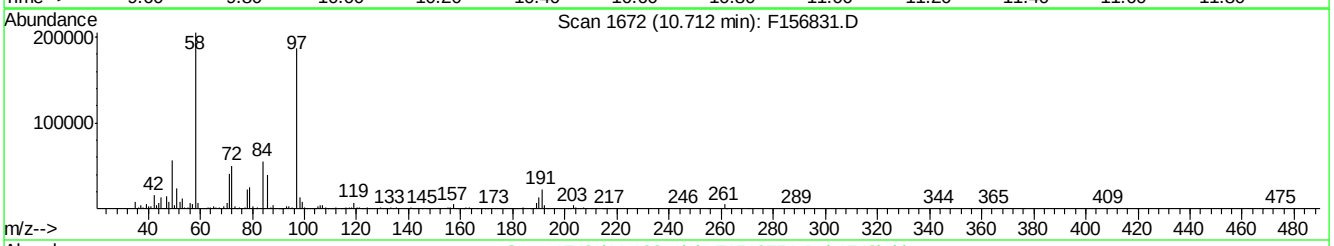
SGS ACCUTEST JC19473

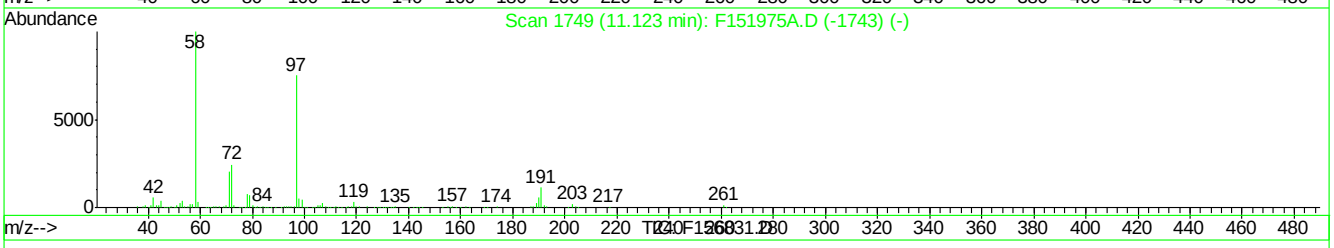
Quantitation Report (Qedit)

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

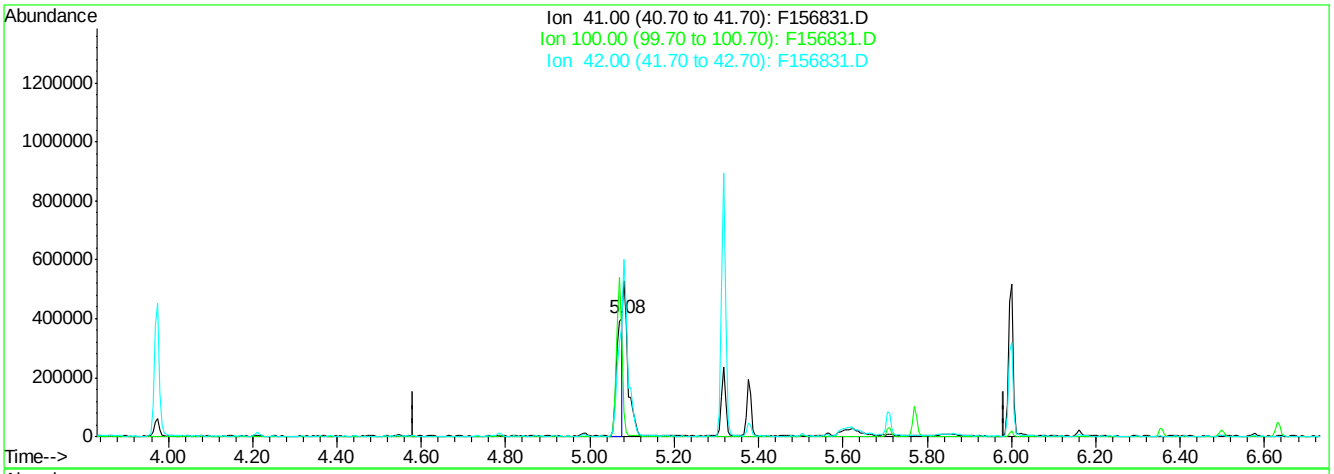
Ion	Exp%	Act%
58.00	100	100
97.00	80.30	90.58
72.00	25.90	24.02
0.00	0.00	0.00

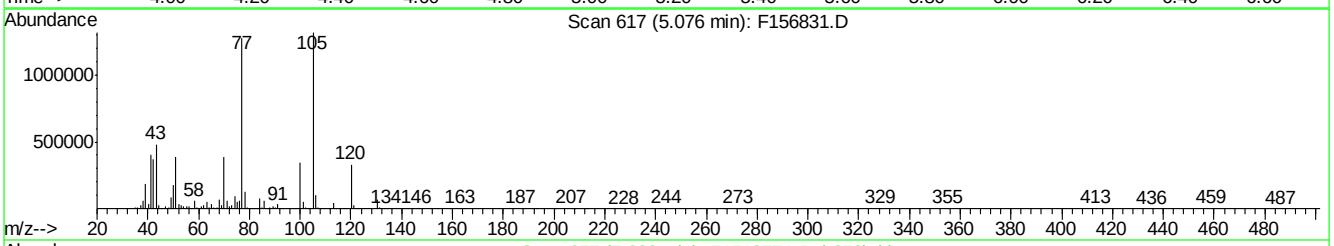
F156831.D MF6563AP9.M Thu May 05 12:26:46 2016 RT1

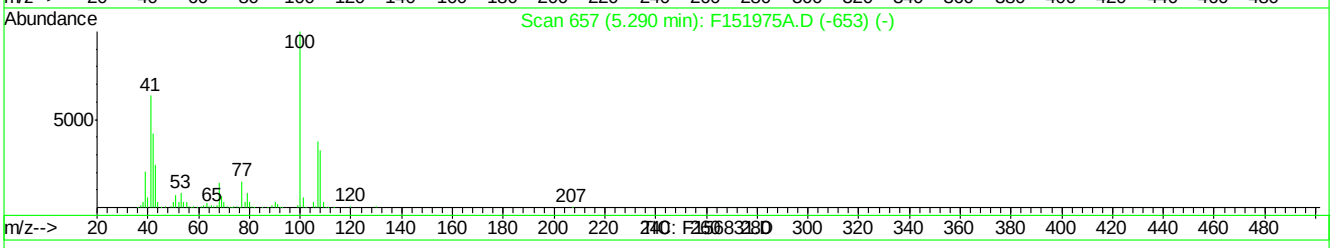
Quantitation Report (Qedit)

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

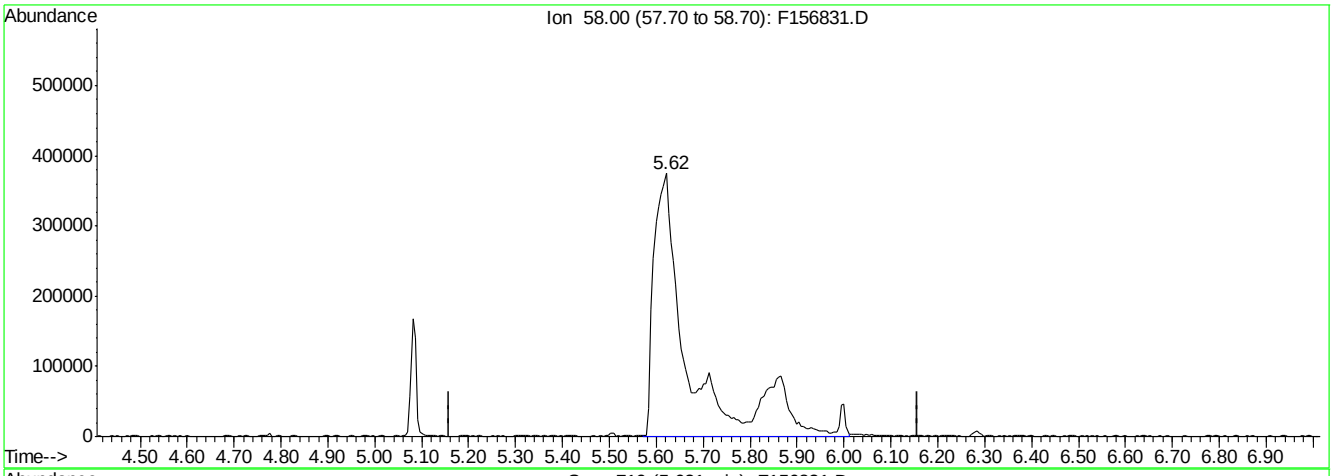
Ion	Exp%	Act%
41.00	100	100
100.00	171.00	86.29#
42.00	64.40	92.89
0.00	0.00	0.00

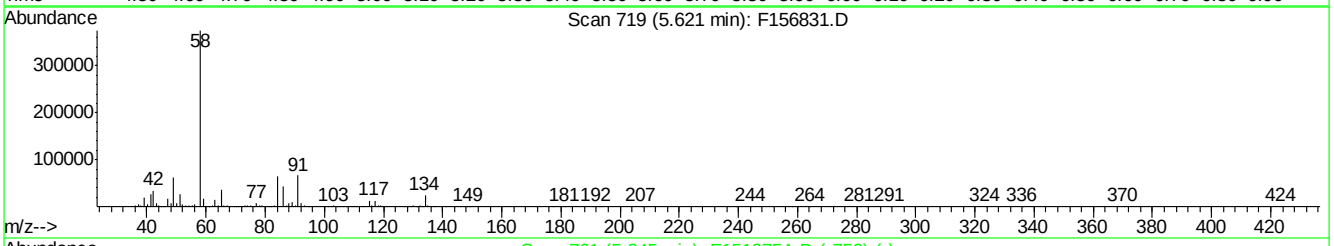
F156831.D MF6563AP9.M Mon May 09 10:01:23 2016 RT1

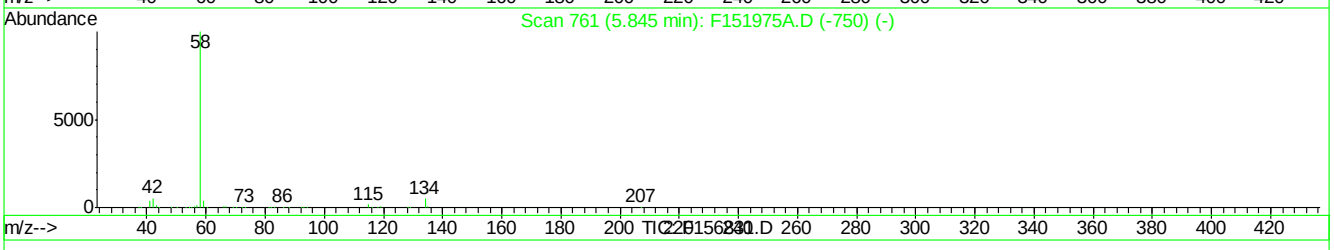
Quantitation Report (Qedit)

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

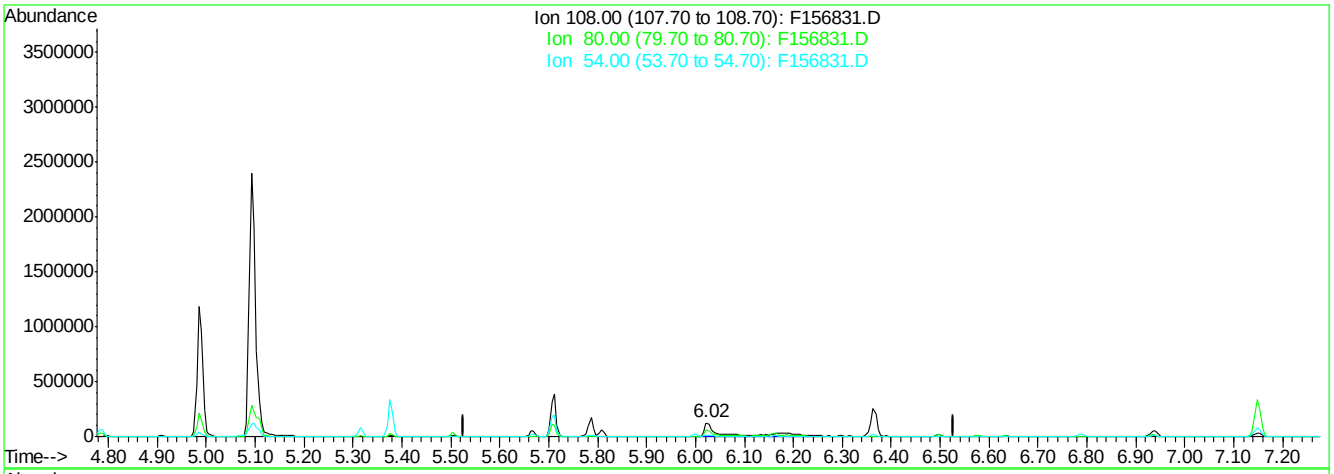
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

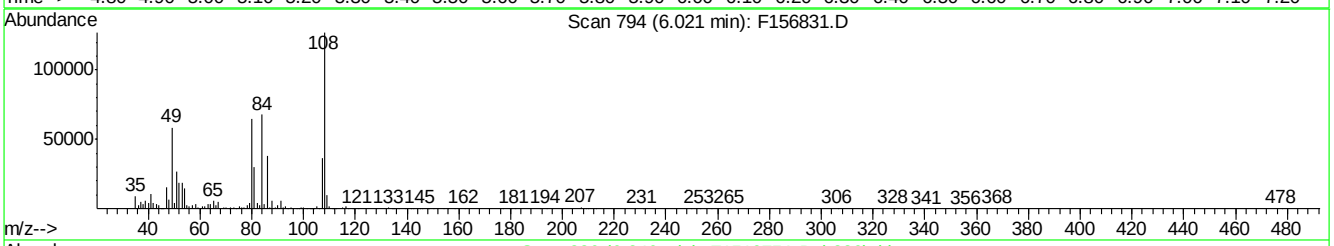
F156831.D MF6563AP9.M Mon May 09 10:01:36 2016 RT1

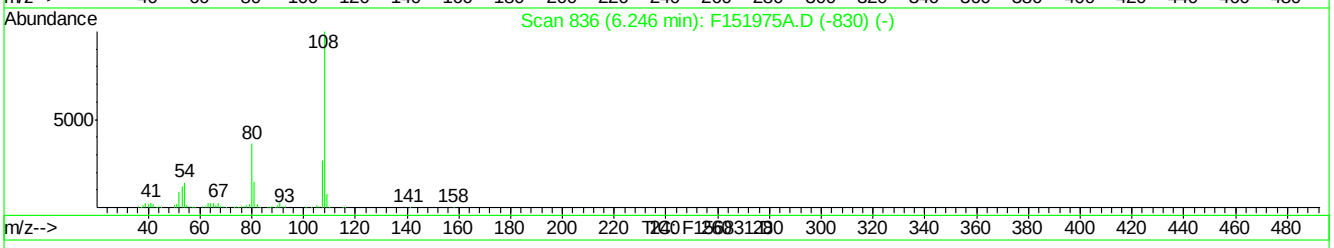
Quantitation Report (Qedit)

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

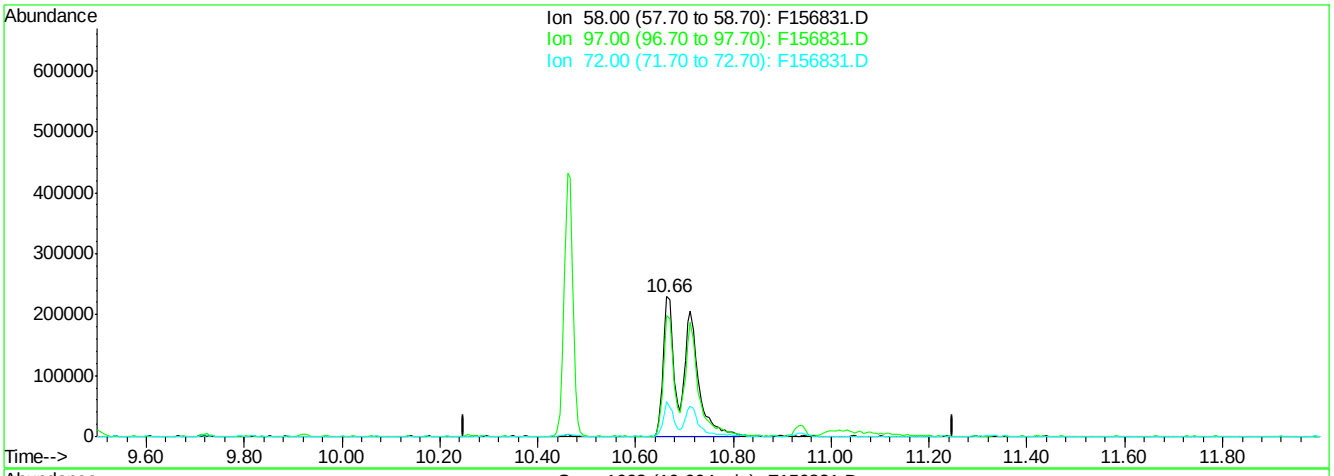
Ion	Exp%	Act%
108.00	100	100
80.00	46.00	51.22
54.00	14.50	11.74
0.00	0.00	0.00

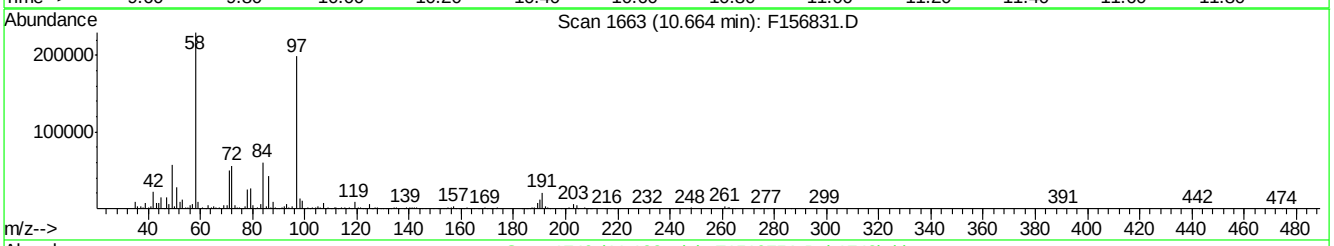
F156831.D MF6563AP9.M Mon May 09 10:01:43 2016 RT1

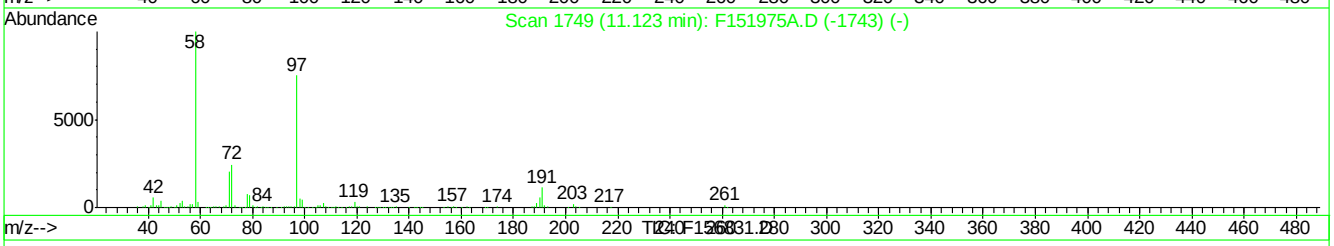
Quantitation Report (Qedit)

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

7.6.86

7

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 JC19473

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

7.6.86

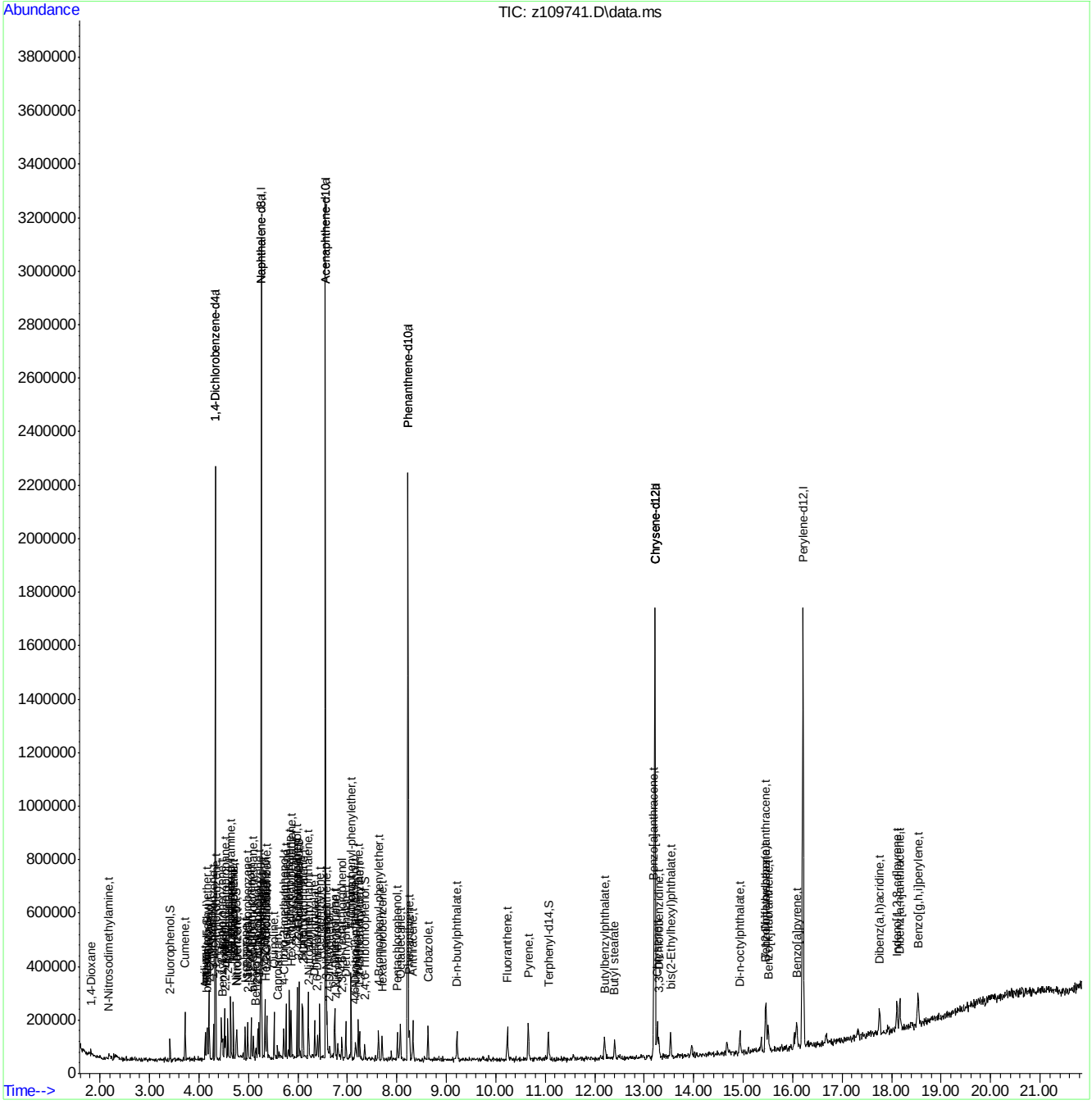
7

SGS ACCUTEST JC19473

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



MZ5485.M Thu Apr 14 08:37:52 2016 RTE

Page: 4

SGS ACCUTEST JC19473

Manual Integration Approval Summary

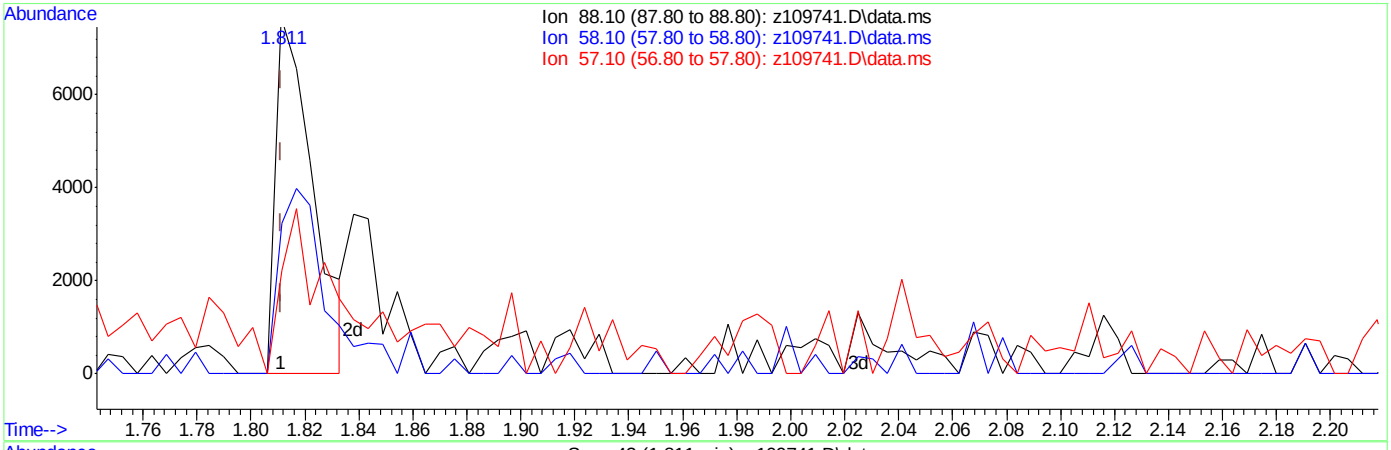
Sample Number:	EZ5485-IC5485	**Method:**	SW846 8270D
Lab FileID:	Z109741.D	**Analyst approved:**	04/14/16 09:34 Arielle Cocozza
Injection Time:	04/13/16 21:35	**Supervisor approved:**	04/14/16 15:48 Nina Pandya

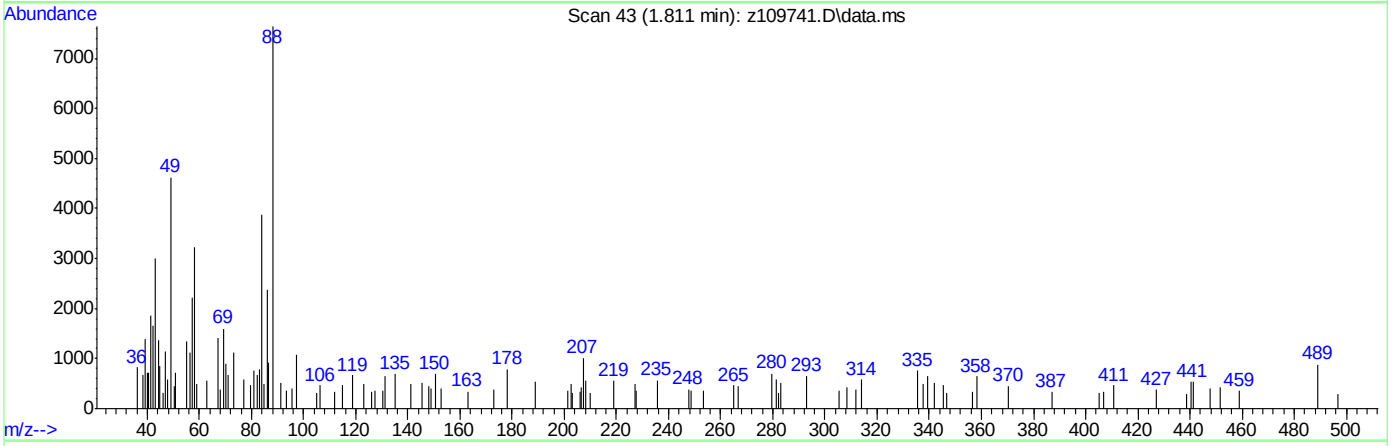
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.81	Poor instrument integration

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

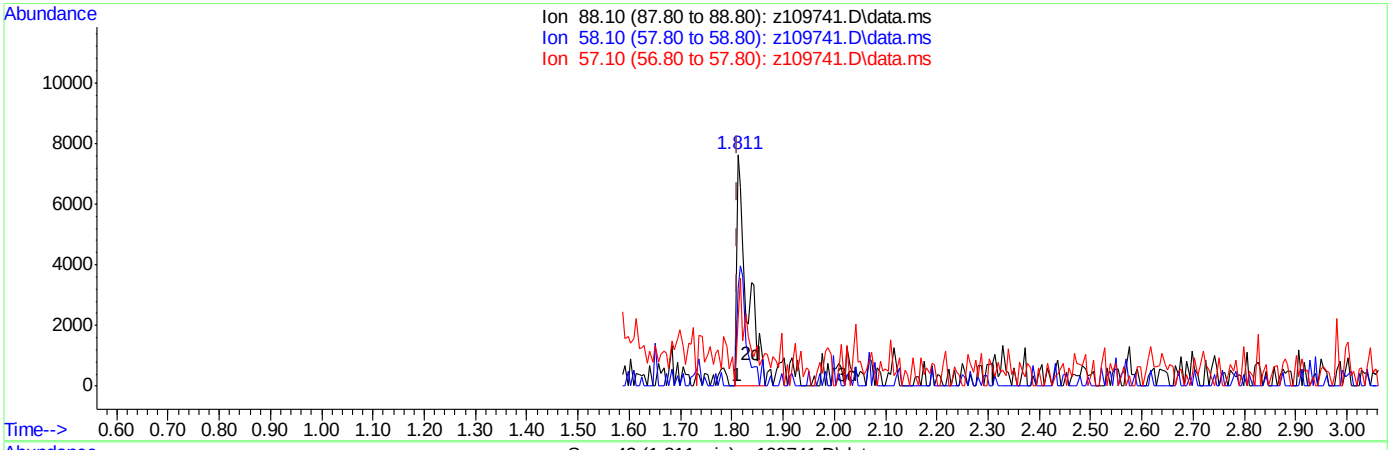
Ion	Exp%	Act%
88.10	100	100
58.10	40.80	40.79
57.10	21.10	21.14
0.00	0.00	0.00

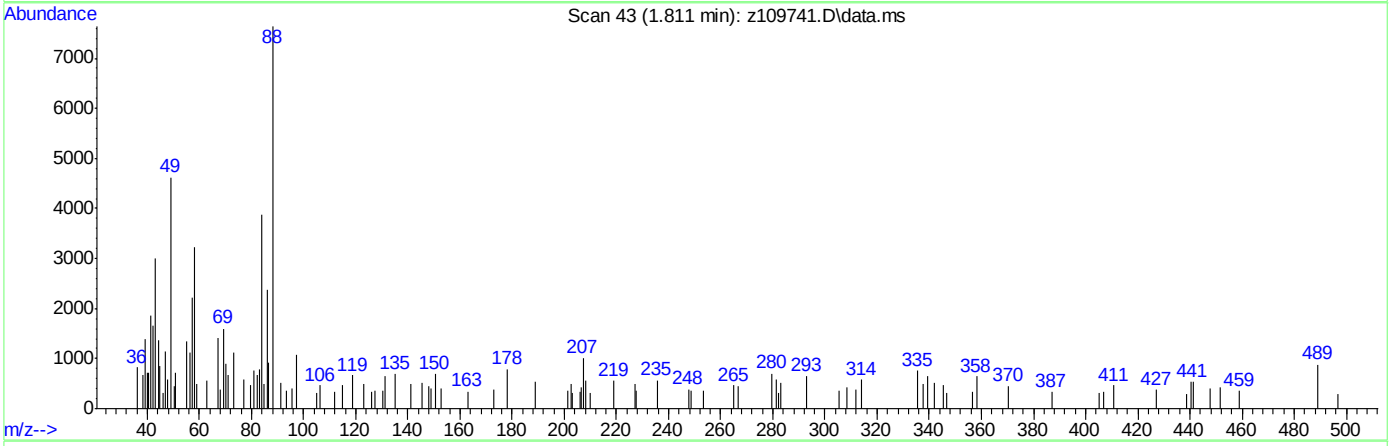
SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

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

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

SGS ACCUTEST JC19473

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

7.6.87

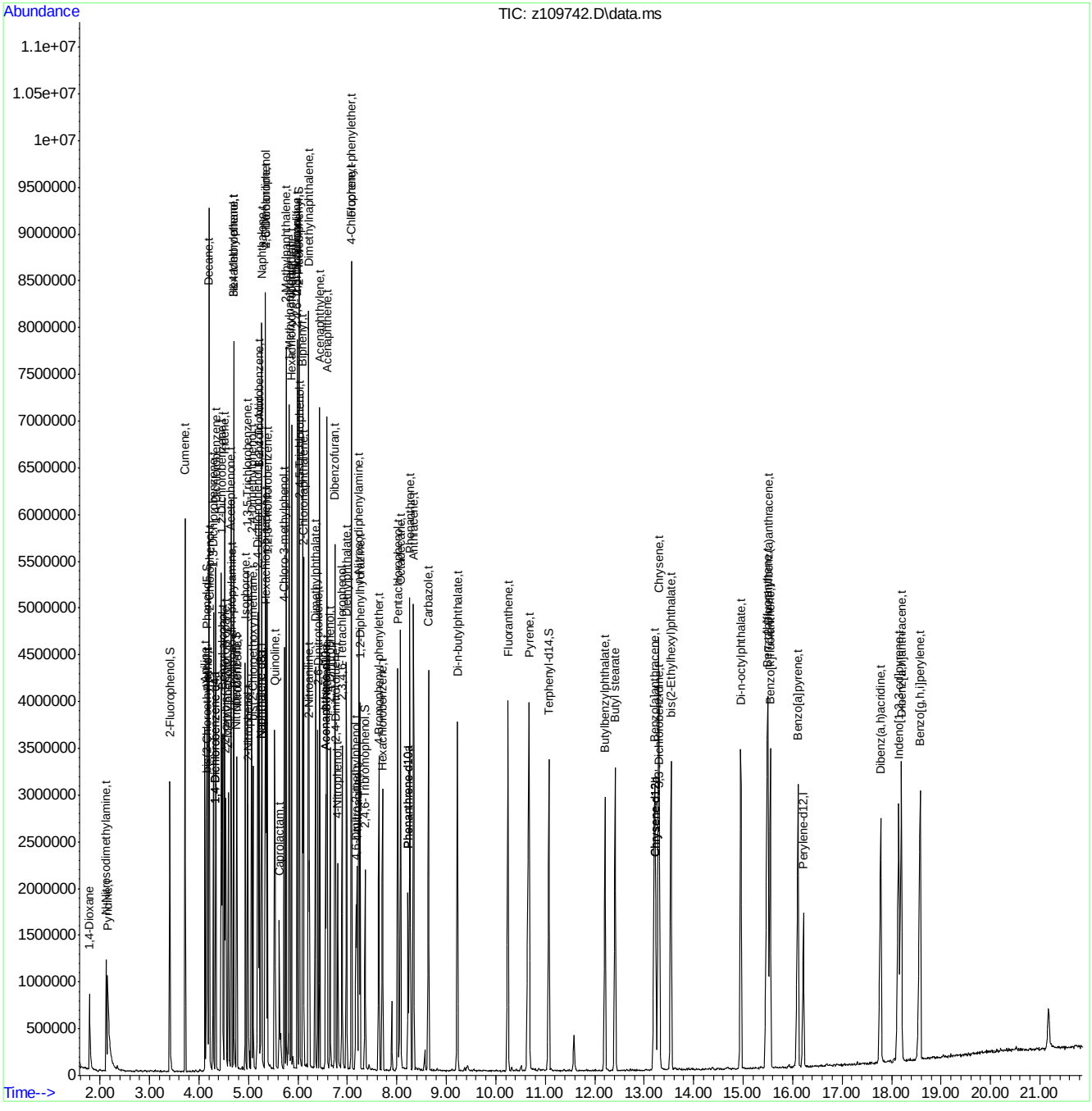
7

SGS ACCUTEST JC19473

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



Manual Integration Approval Summary

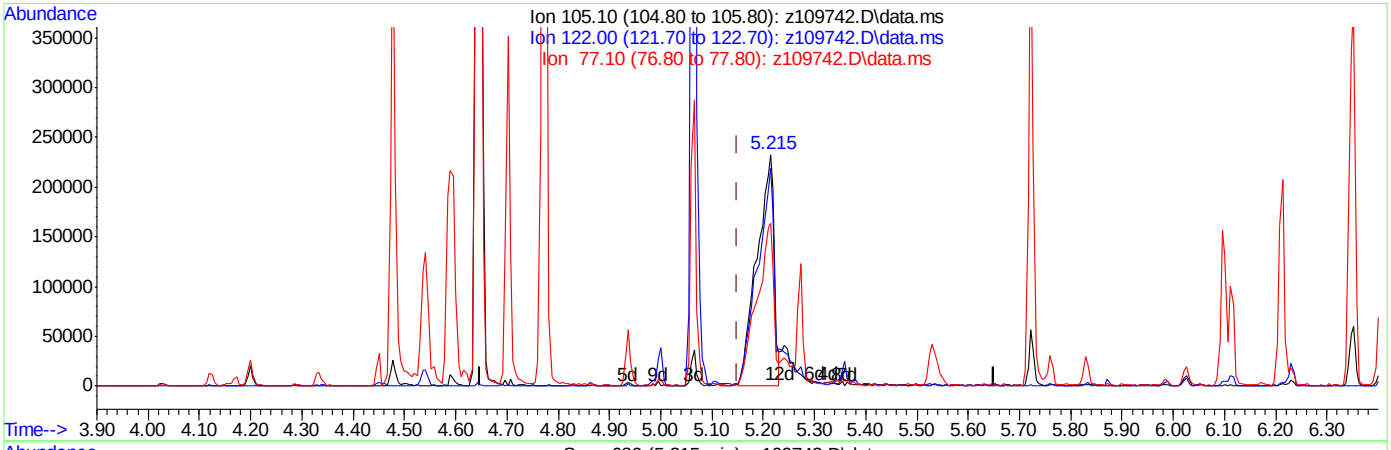
Sample Number:	EZ5485-IC5485	**Method:**	SW846 8270D
Lab FileID:	Z109742.D	**Analyst approved:**	04/14/16 09:34 Arielle Cocozza
Injection Time:	04/13/16 22:06	**Supervisor approved:**	04/14/16 15:48 Nina Pandya

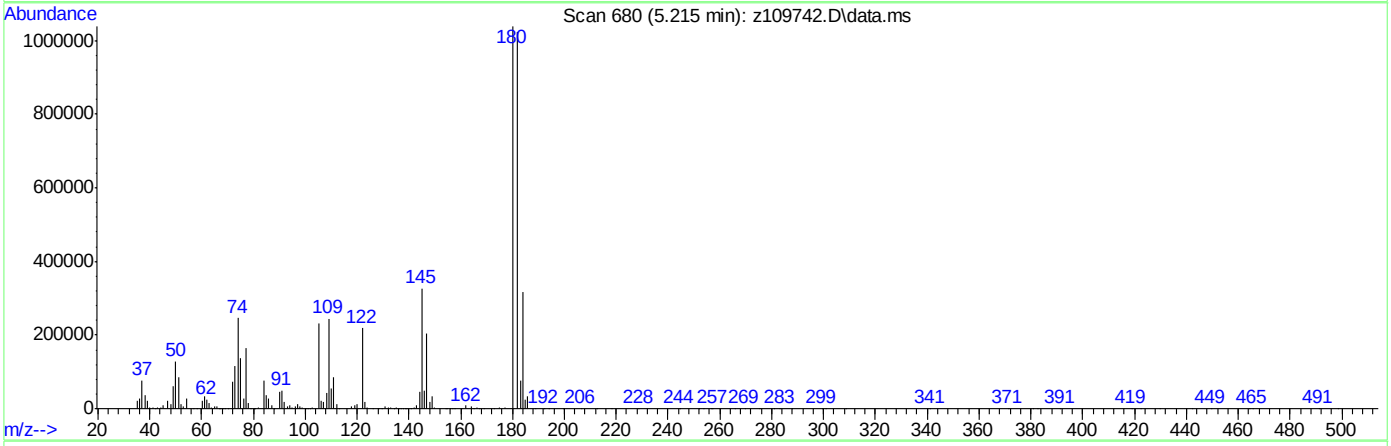
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.21	Poor instrument integration
Caprolactam	105-60-2		5.63	Poor instrument integration

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





TIC: z109742.D\data.ms

(31) Benzoic Acid

5.215min (+0.065) 92.20ppm

response 546611

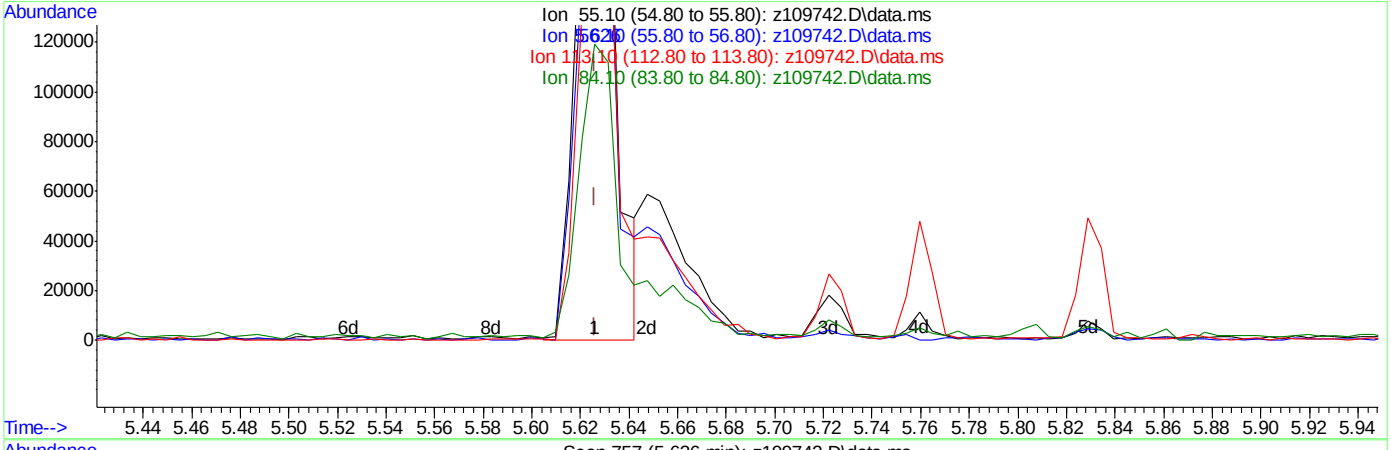
Ion	Exp%	Act%
105.10	100	100
122.00	65.80	92.34#
77.10	70.30	70.25
0.00	0.00	0.00

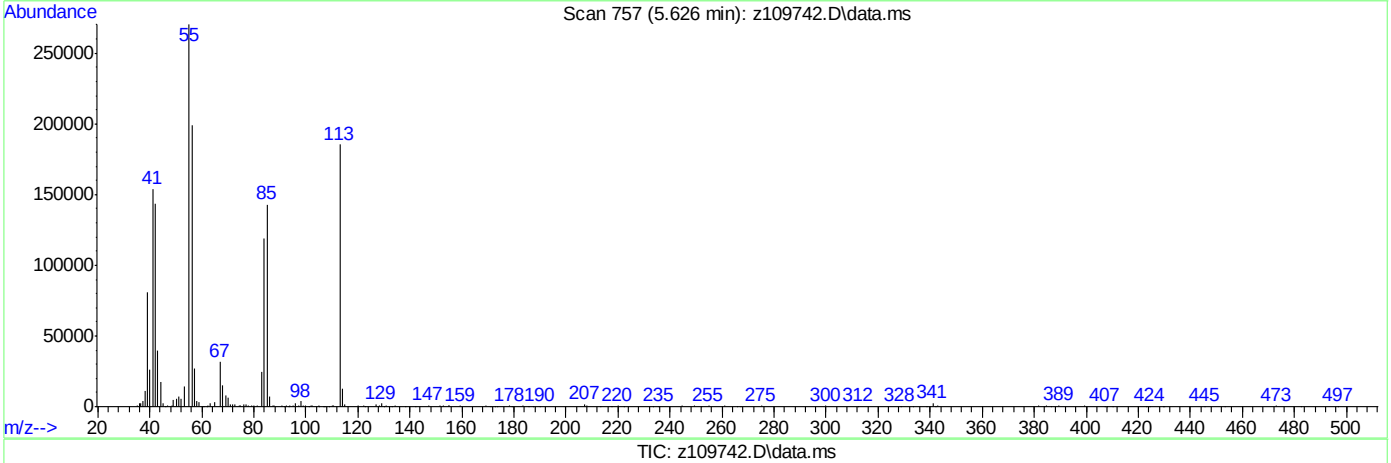
SGS ACCUTEST JC19473

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

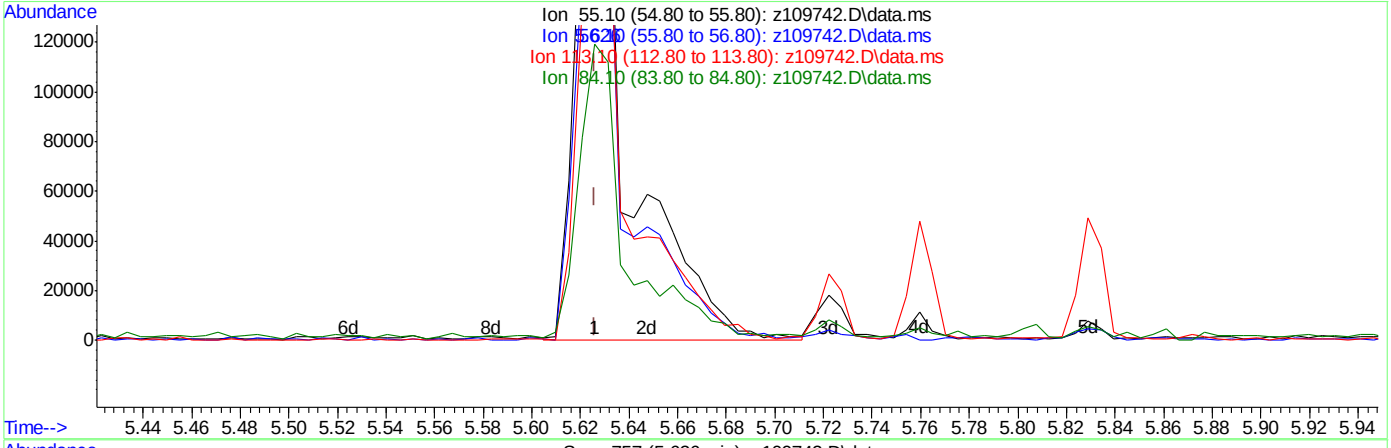
Ion	Exp%	Act%
55.10	100	100
56.10	72.40	72.44
113.10	67.30	67.26
84.10	43.90	43.86

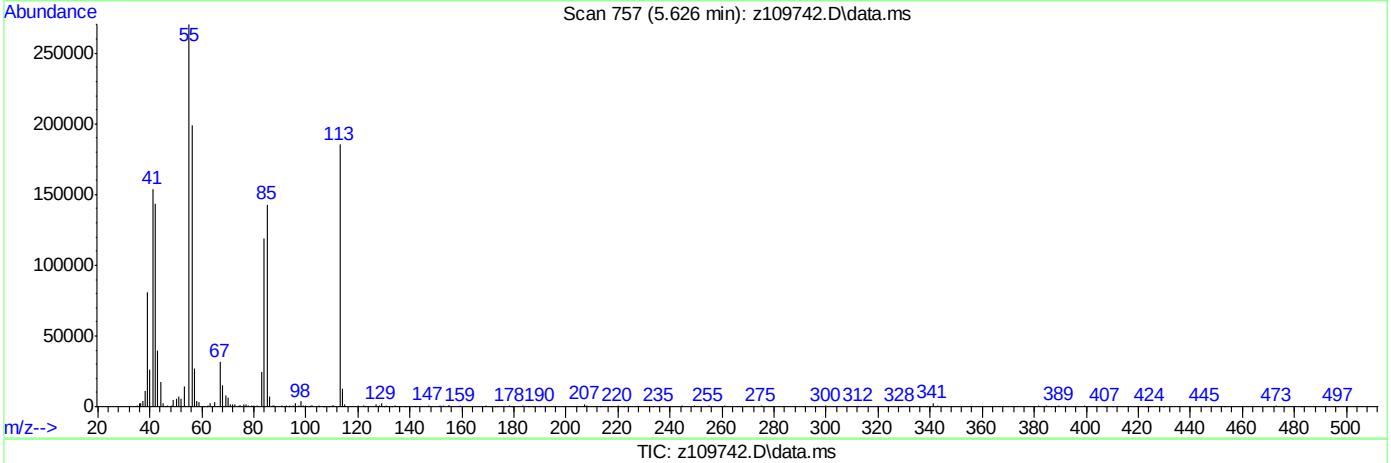
SGS ACCUTEST JC19473

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

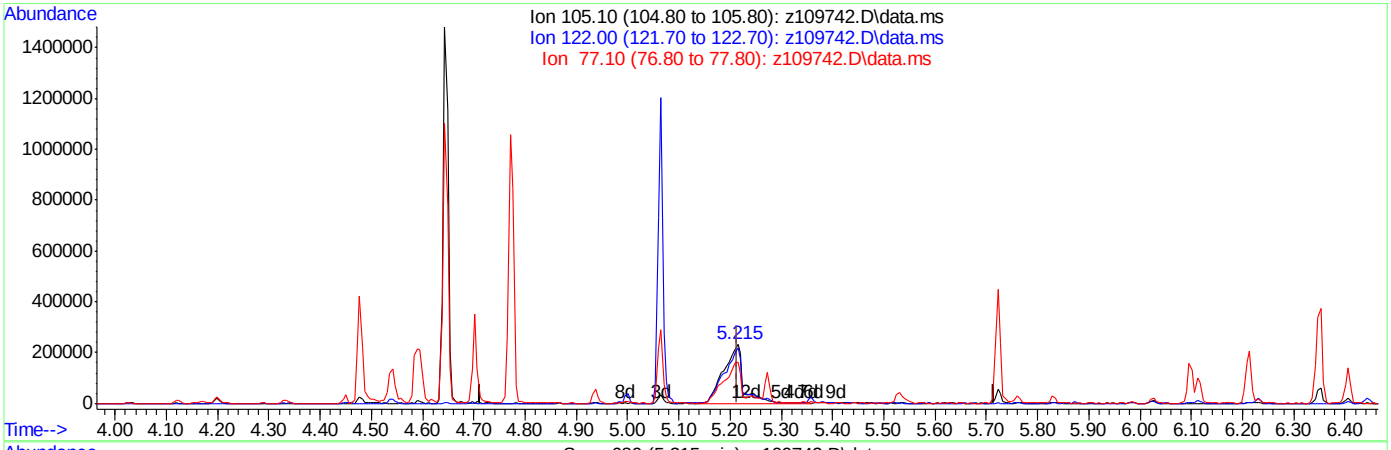
response 355543

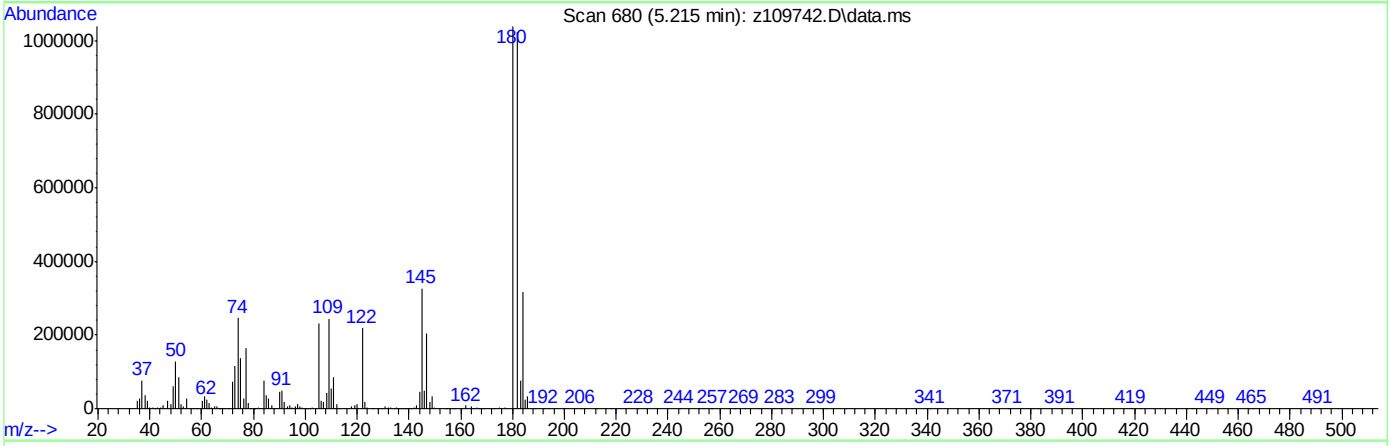
Ion	Exp%	Act%
55.10	100	100
56.10	72.40	73.48
113.10	67.30	68.58
84.10	43.90	44.12

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

SGS ACCUTEST JC19473

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

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

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

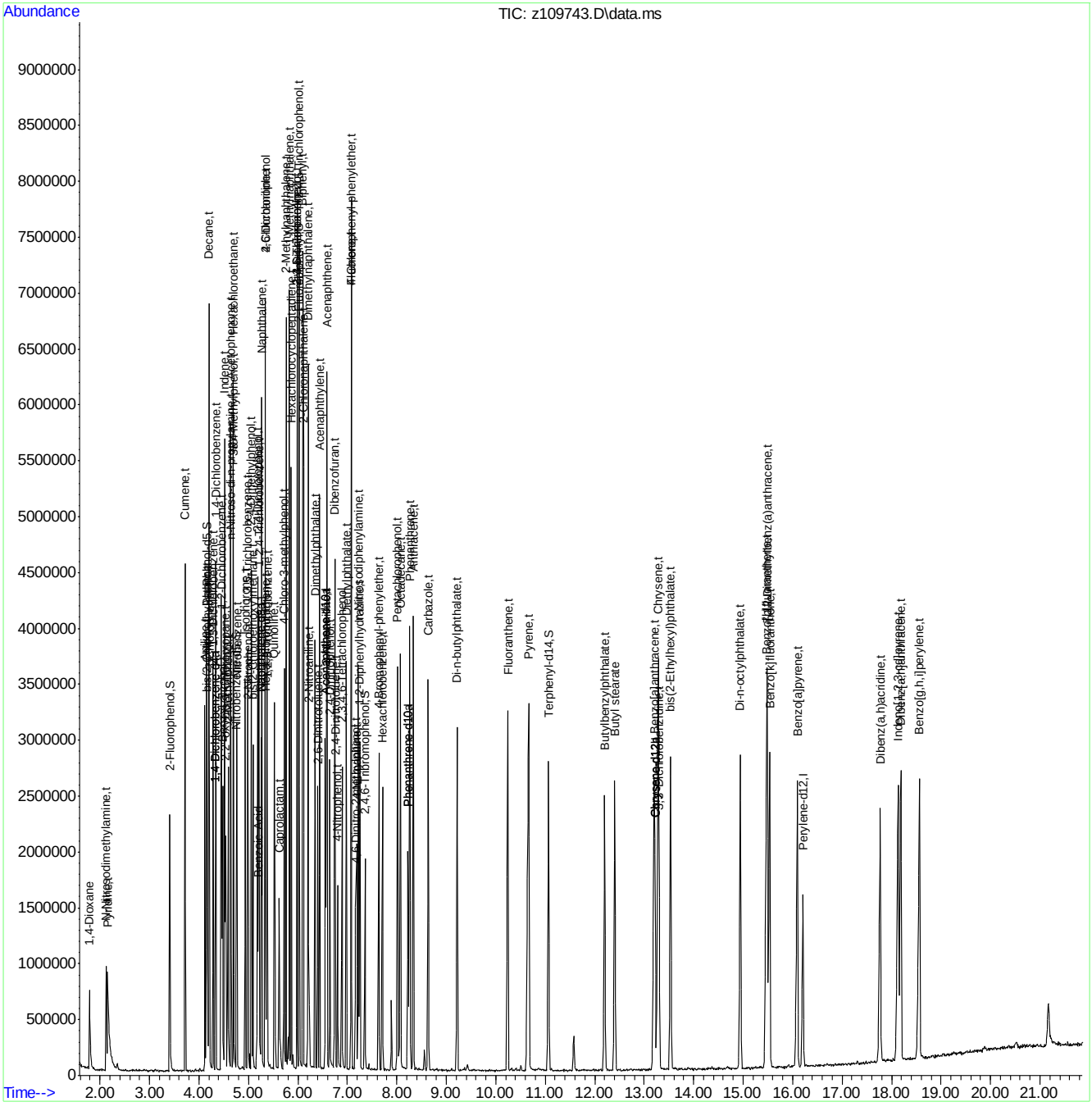
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



MZ5485.M Thu Apr 14 09:03:48 2016 RTE Page: 4

7.6.88
7
SGS
708 of 1308
ACCUTEST
JC19473

Manual Integration Approval Summary

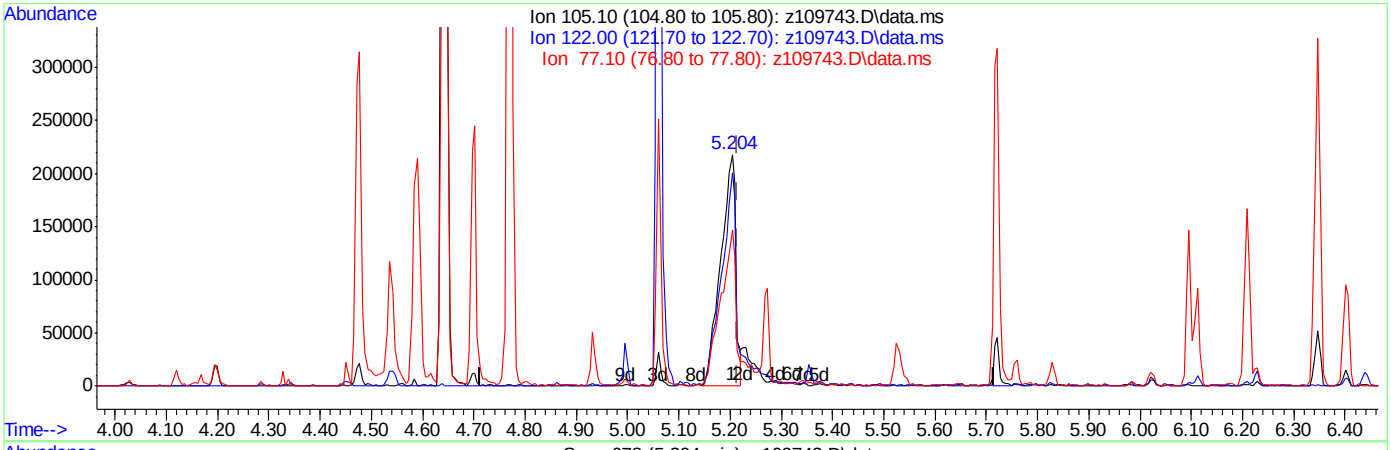
Sample Number:	EZ5485-IC5485	**Method:**	SW846 8270D
Lab FileID:	Z109743.D	**Analyst approved:**	04/14/16 09:34 Arielle Cocozza
Injection Time:	04/13/16 22:38	**Supervisor approved:**	04/14/16 15:48 Nina Pandya

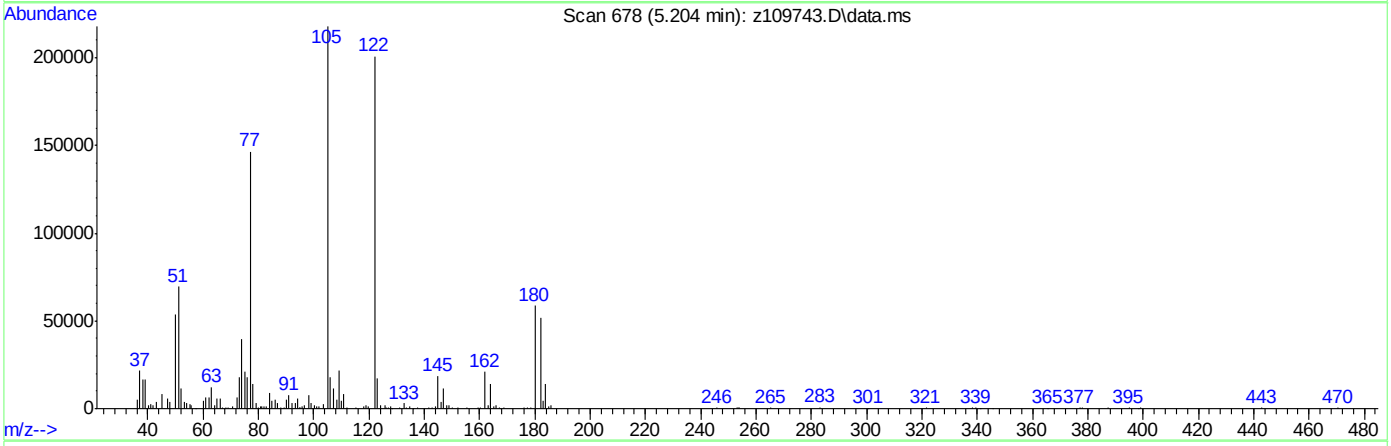
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.20	Poor instrument integration
Caprolactam	105-60-2		5.62	Poor instrument integration

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

SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5485\
Data File : z109743.D
Acq On : 13 Apr 2016 10:38 pm
Operator : sarad
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Quant Time: Apr 14 09:02:05 2016
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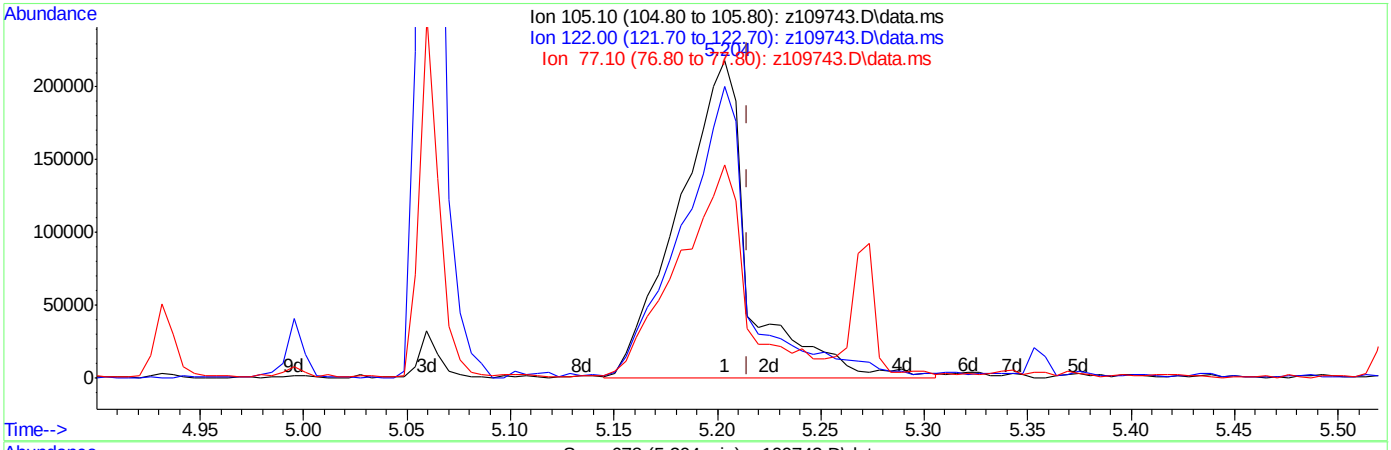
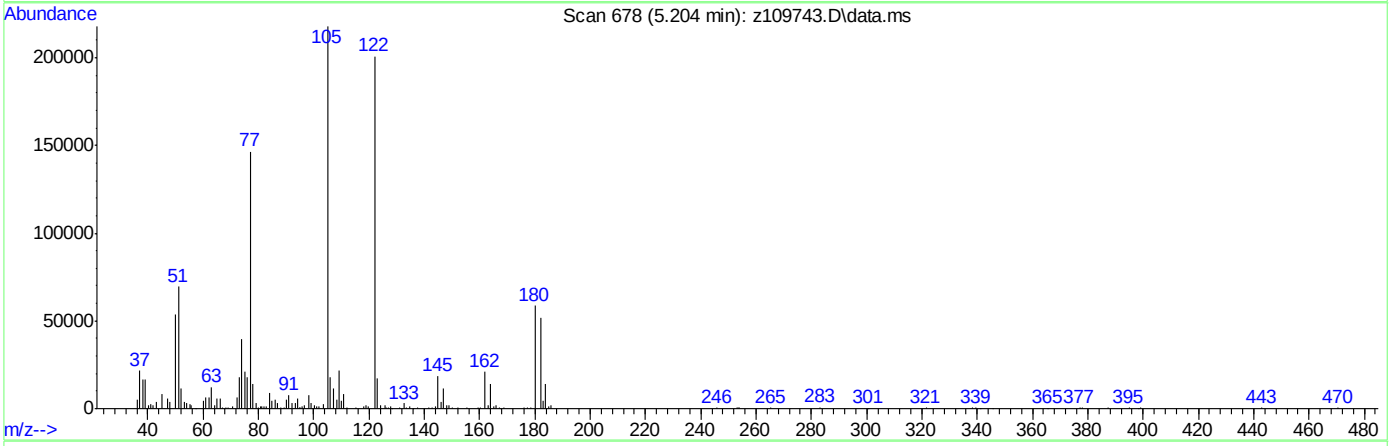




TIC: z109743.D\data.ms

(31) Benzoic Acid

5.204min (-0.011) 84.40ppm m

response 518620

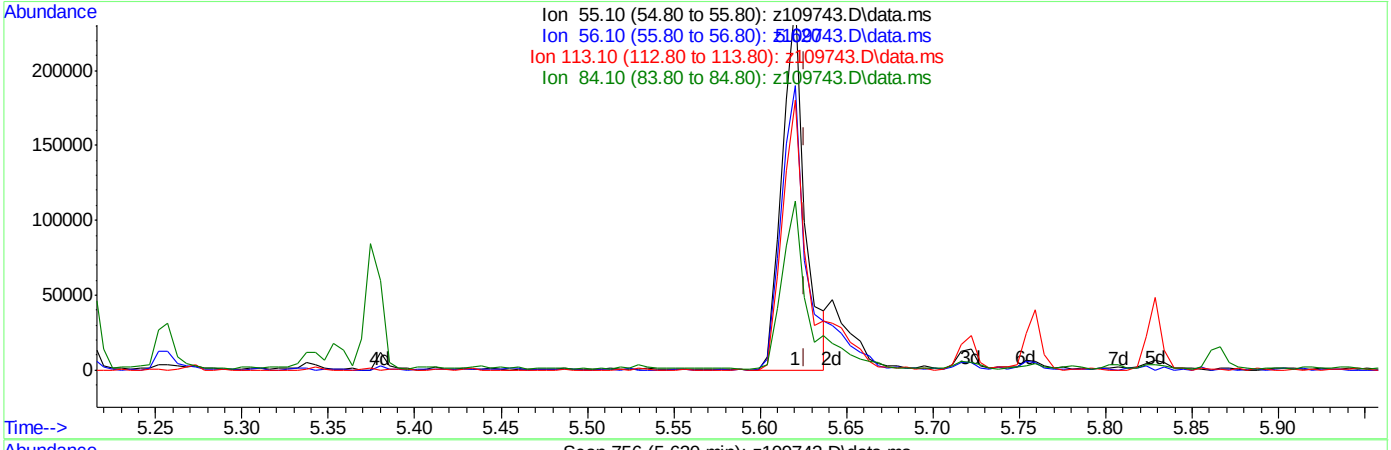
Ion	Exp%	Act%
105.10	100	100
122.00	94.00	92.10
77.10	70.50	67.25
0.00	0.00	0.00

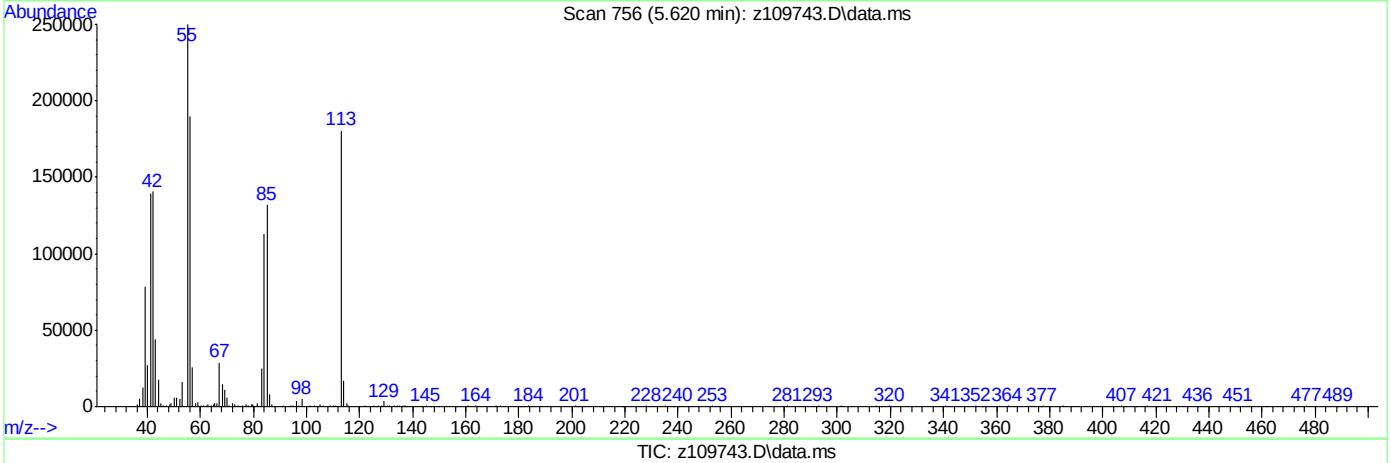
SGS ACCUTEST JC19473

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

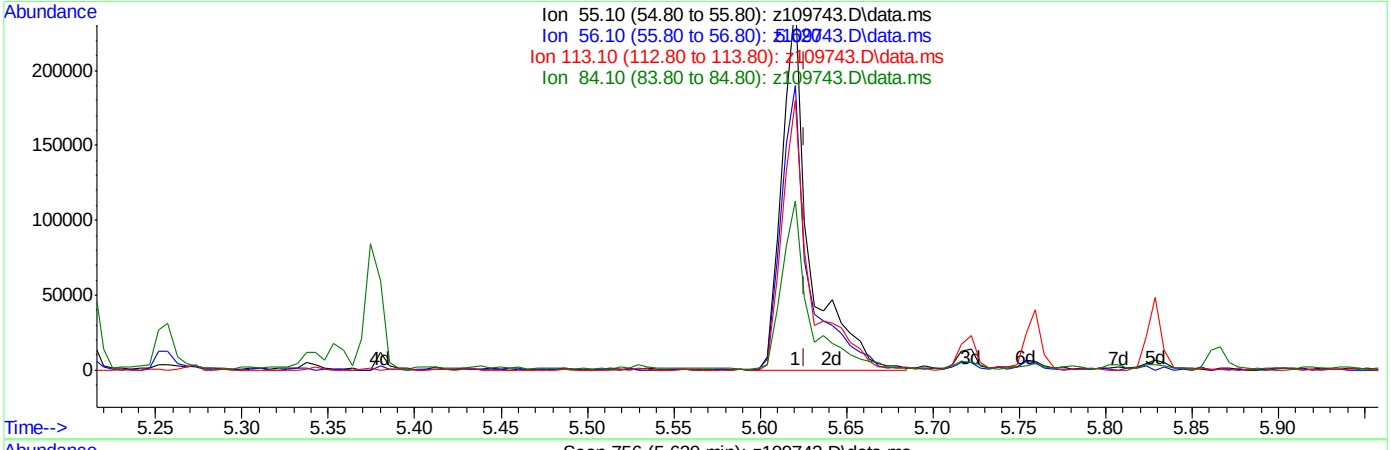
response 226878

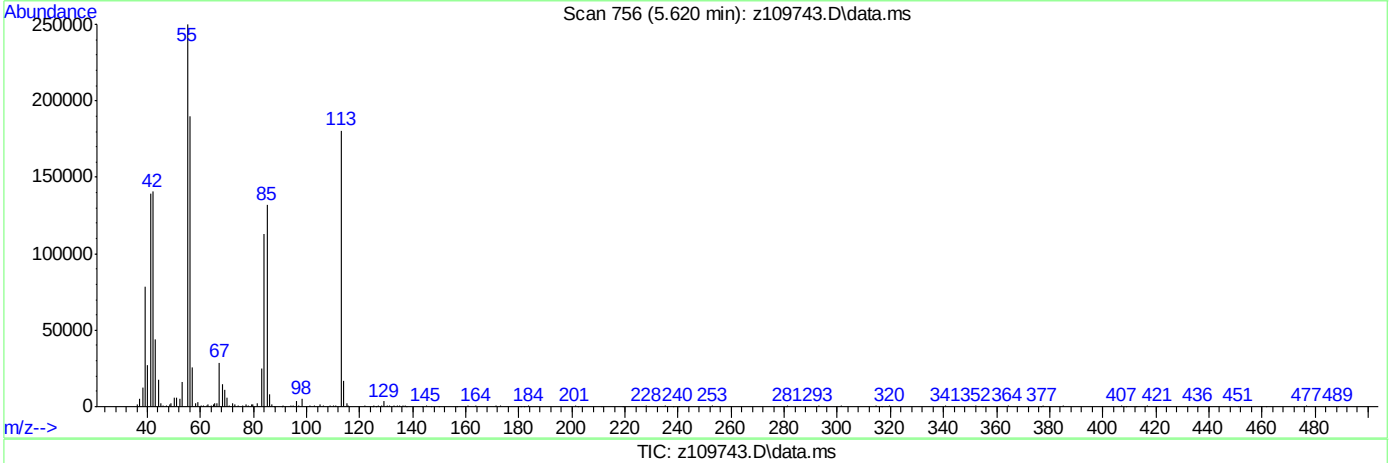
Ion	Exp%	Act%
55.10	100	100
56.10	73.50	75.29
113.10	68.60	71.30
84.10	44.10	43.64

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 JC19473

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

SGS ACCUTEST JC19473

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 JC19473

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

7.6.89

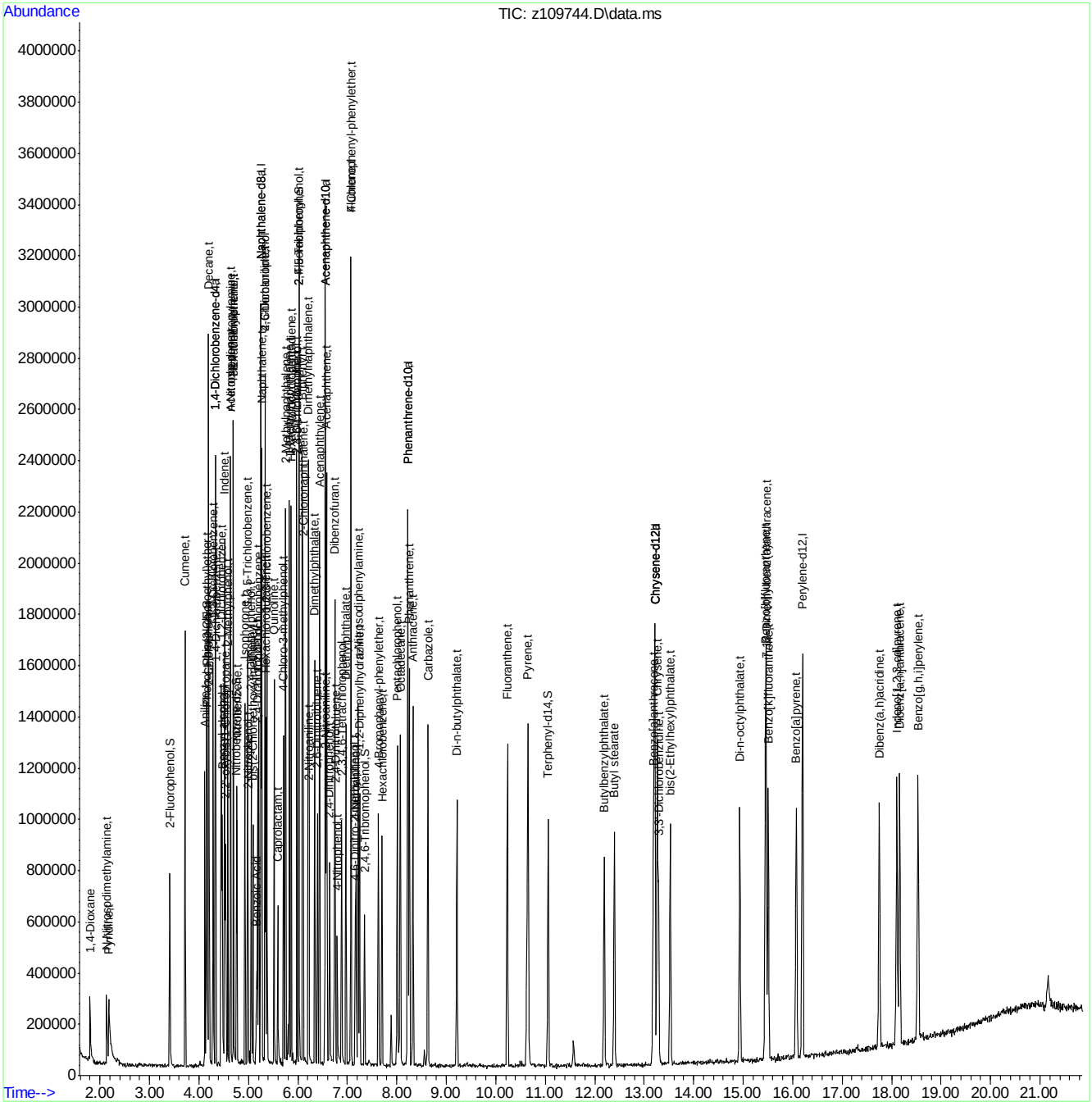
7

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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 JC19473

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

7.6.90

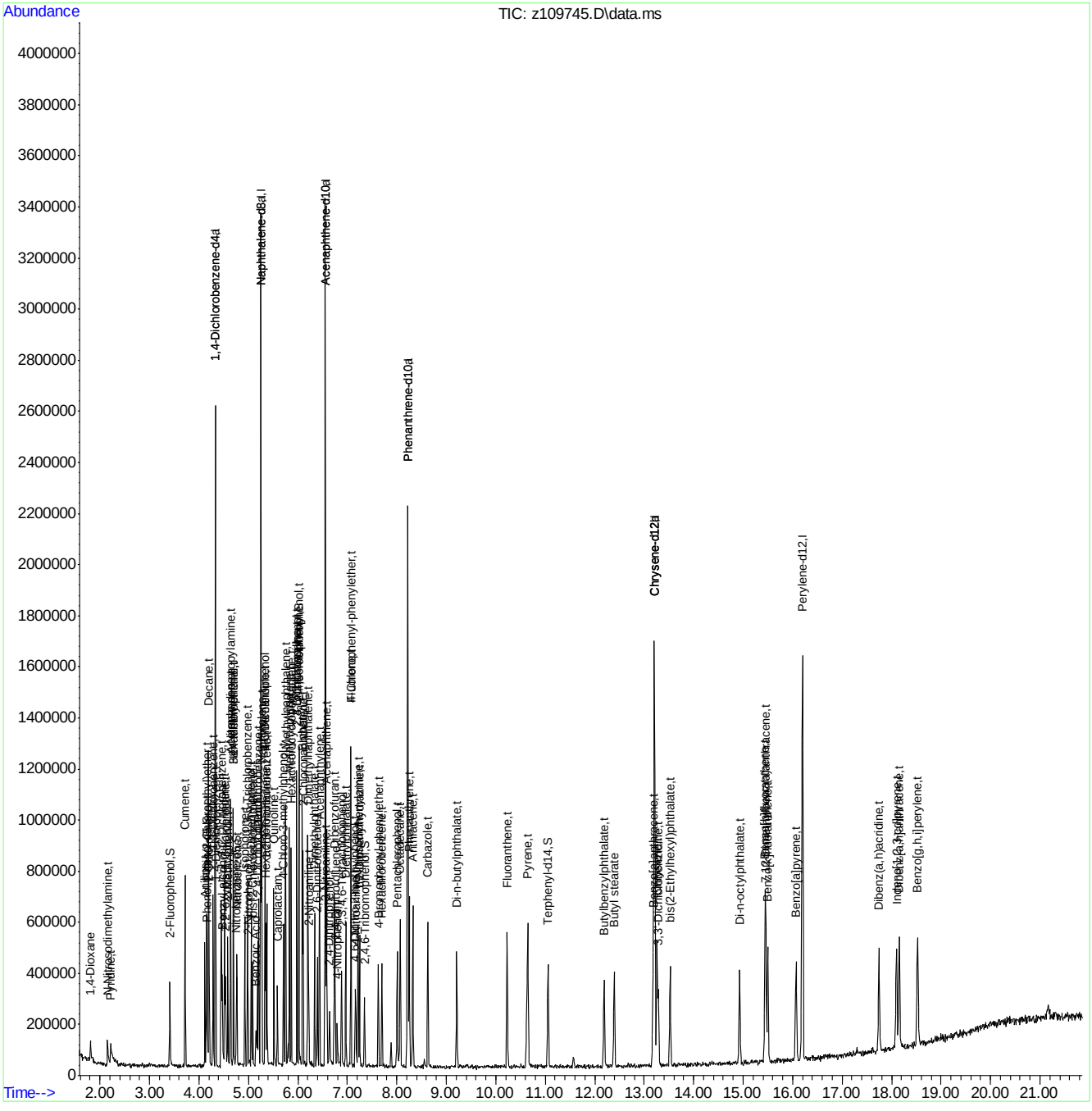
7

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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

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 JC19473

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)
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

7.6.91

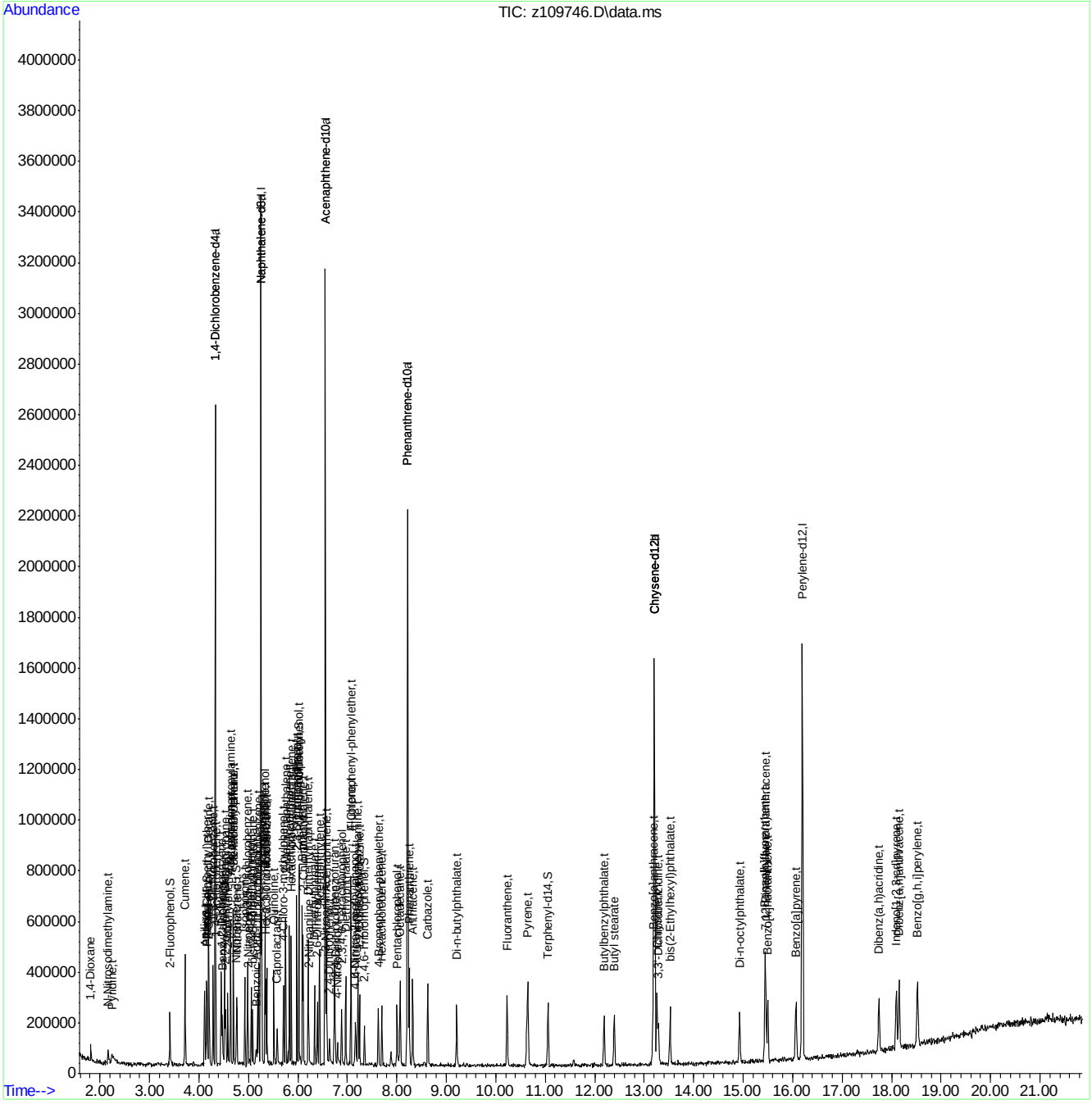
7

SGS ACCUTEST JC19473

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



MZ5485.M Thu Apr 14 09:15:14 2016 RTE

Page: 4

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 JC19473

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)
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

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)
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

7.6.92

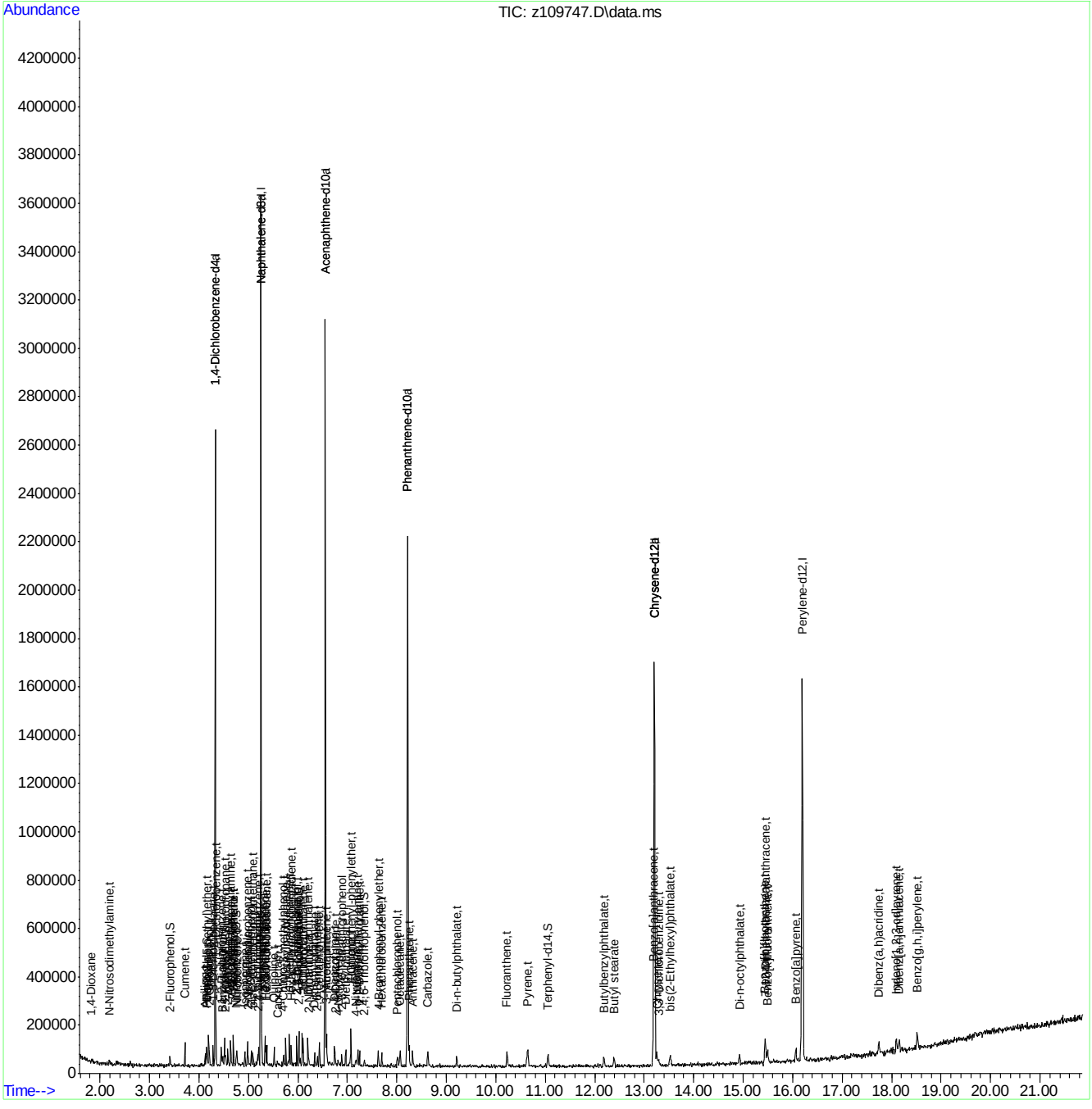
7

SGS ACCUTEST JC19473

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



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

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

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

7.6.93

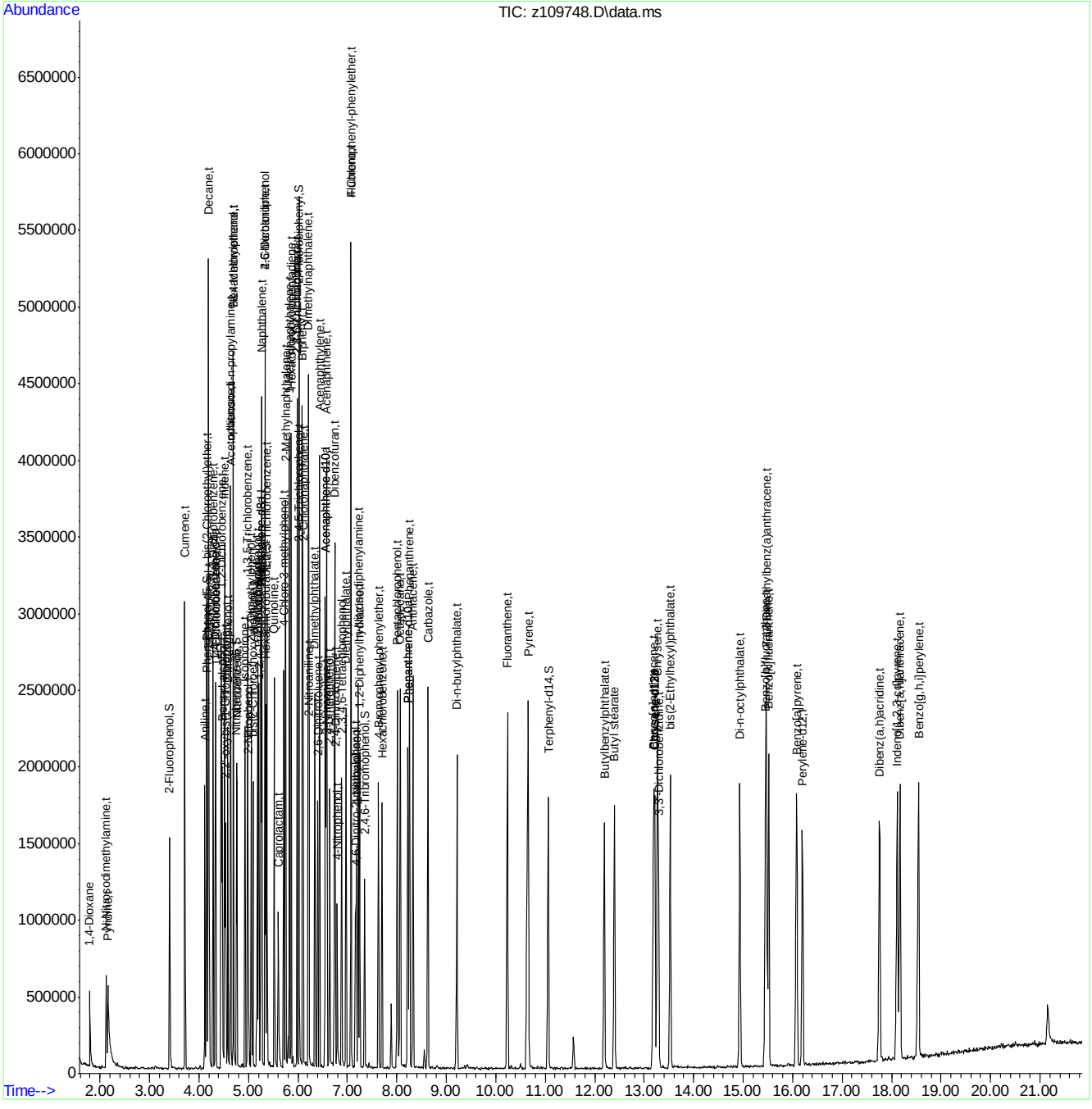
7

SGS ACCUTEST JC19473

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

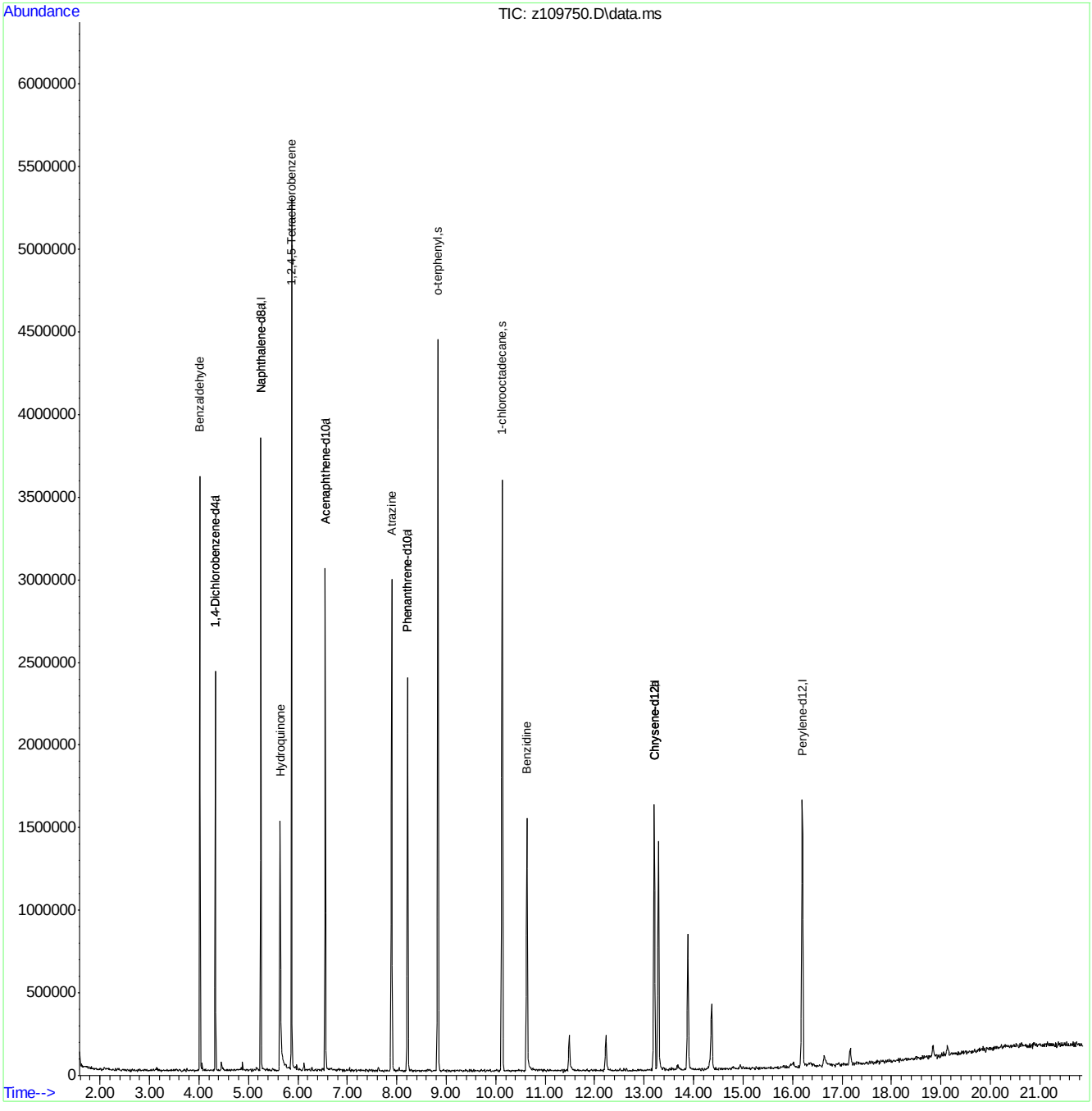
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	292127	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1202462	40.00	ppm	0.00
47) Acenaphthene-d10	6.556	164	572164	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	966486	40.00	ppm	0.00
83) Chrysene-d12	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

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

SGS ACCUTEST JC19473

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

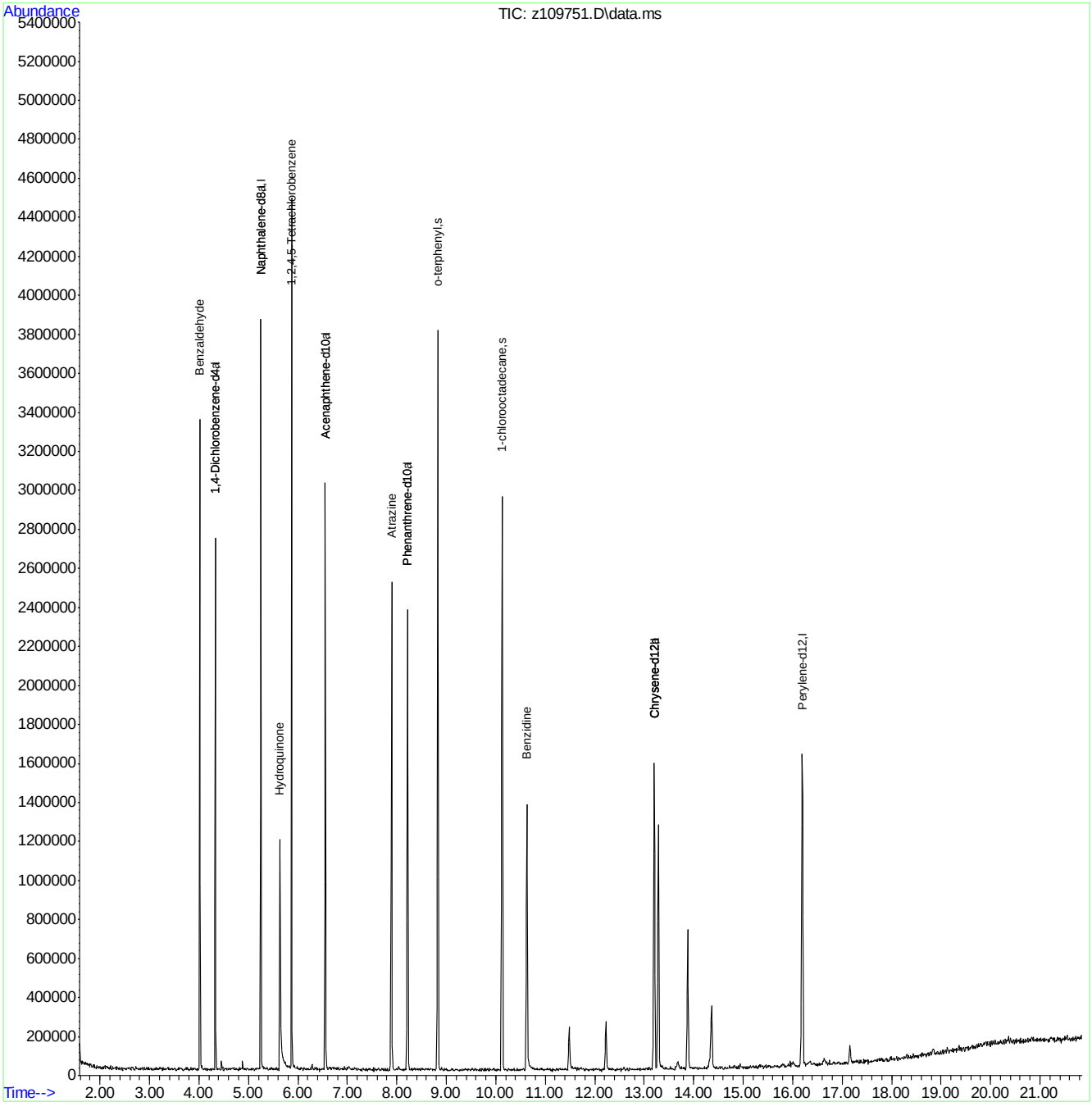
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.328	152	301730	40.00	ppm	0.00
24) Naphthalene-d8	5.252	136	1195479	40.00	ppm	0.00
47) Acenaphthene-d10	6.555	164	574041	40.00	ppm	0.00
69) Phenanthrene-d10	8.217	188	972804	40.00	ppm	0.00
83) Chrysene-d12	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

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



SGS ACCUTEST JC19473

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

7.6.96

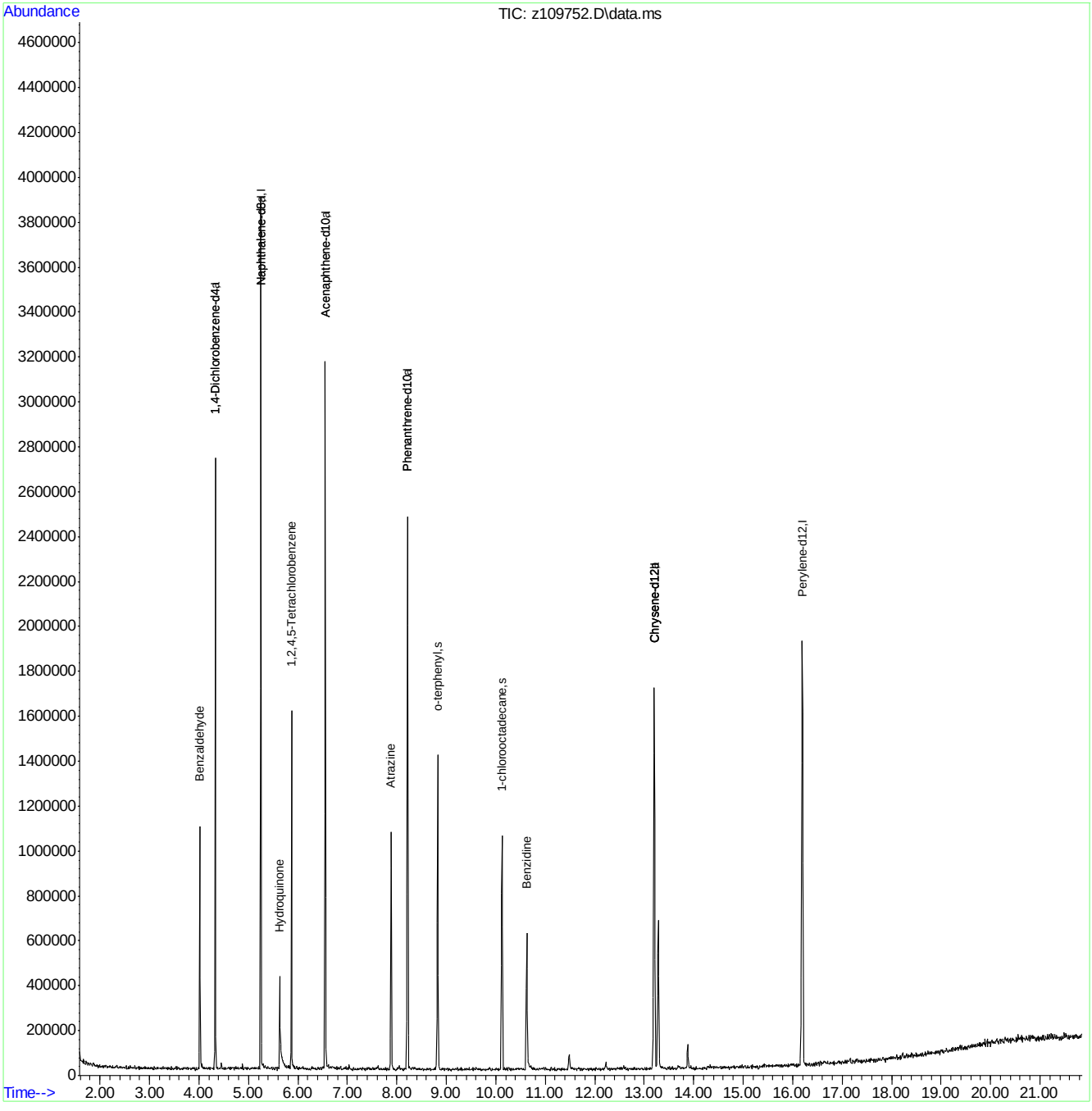
7

SGS ACCUTEST JC19473

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 JC19473

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

7.6.97

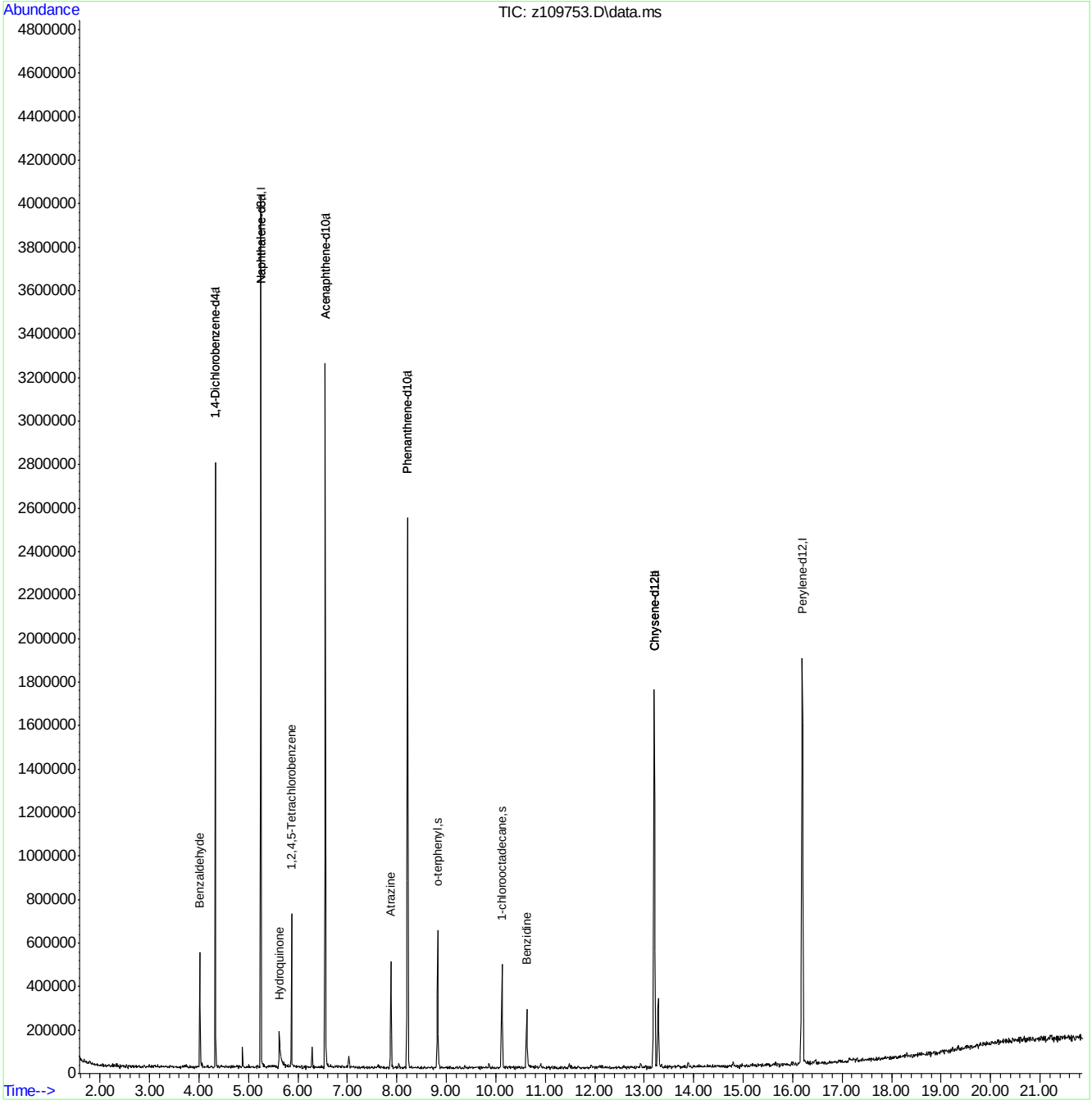
7

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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	

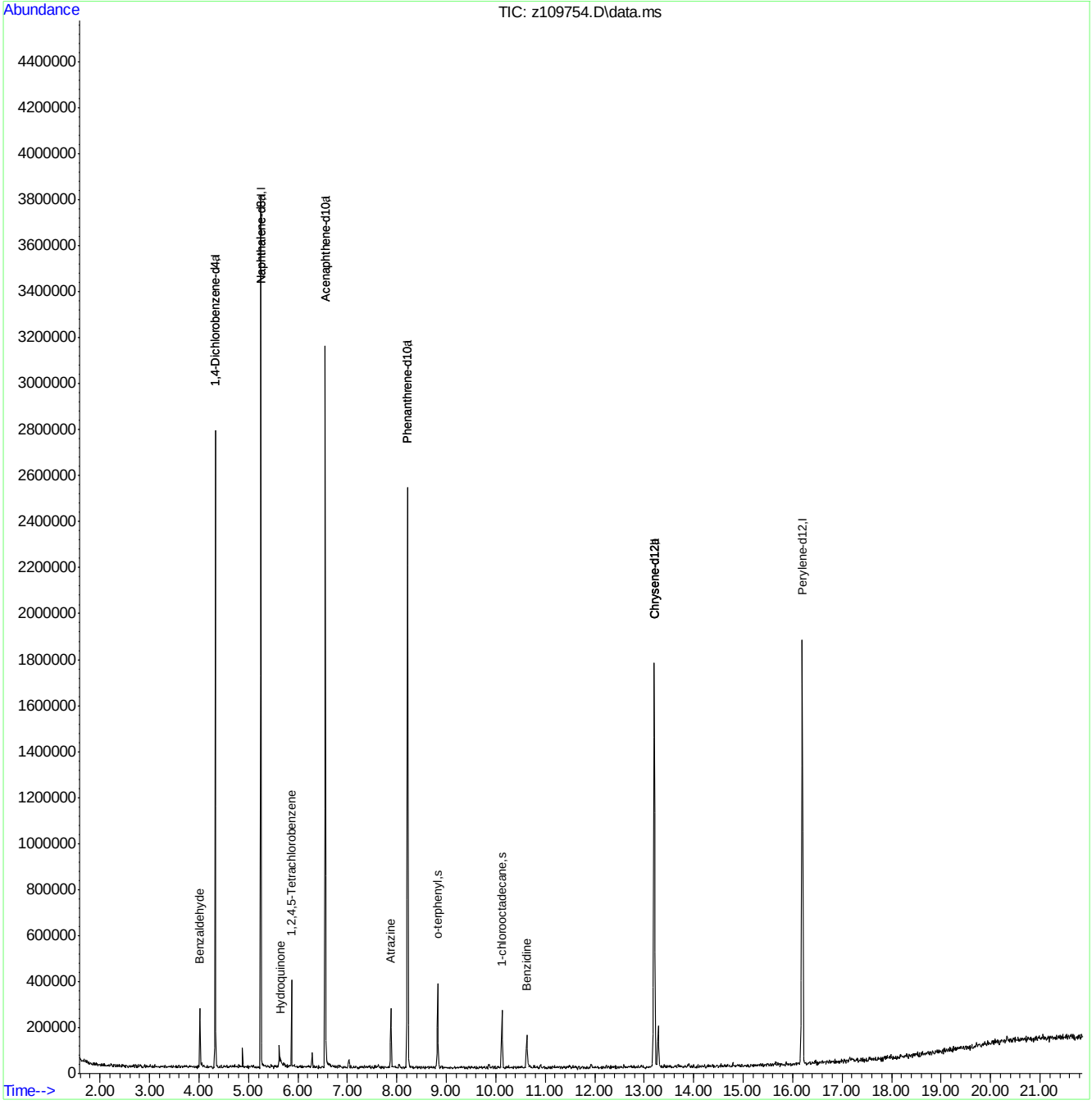
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.98
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



SGS ACCUTEST JC19473

Manual Integration Approval Summary

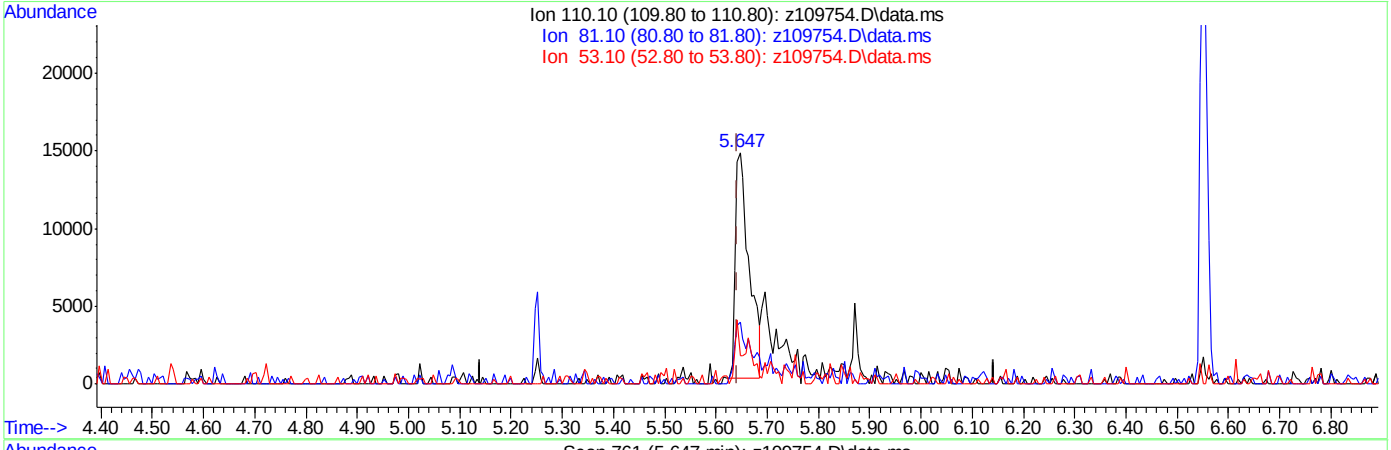
Sample Number:	EZ5486-IC5486	**Method:**	SW846 8270D
Lab FileID:	Z109754.D	**Analyst approved:**	04/14/16 12:00 Arielle Cocozza
Injection Time:	04/14/16 03:58	**Supervisor approved:**	04/14/16 15:48 Nina Pandya

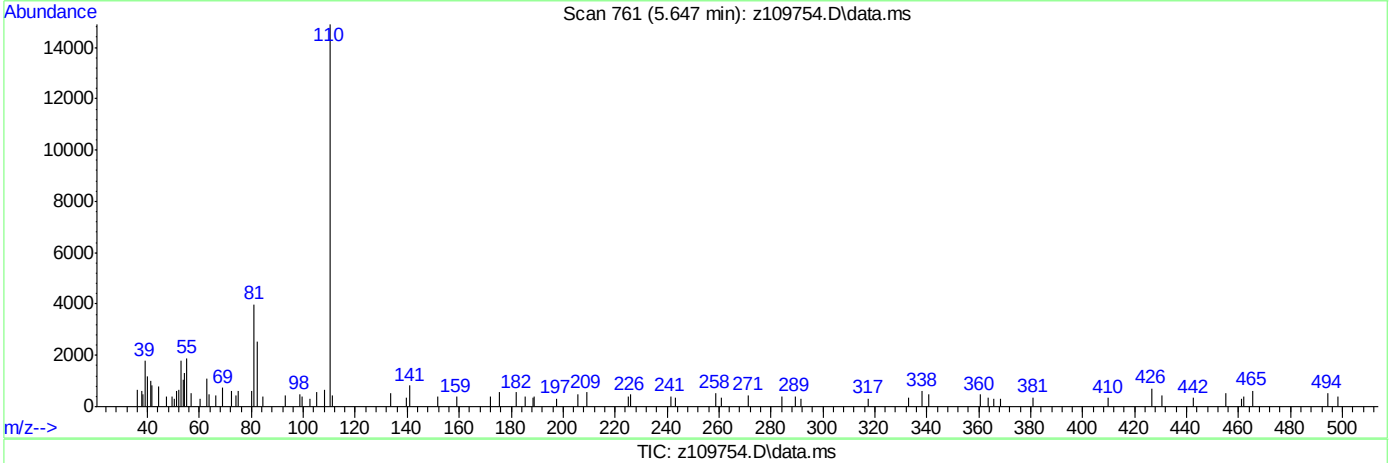
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		5.65	Poor instrument integration

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

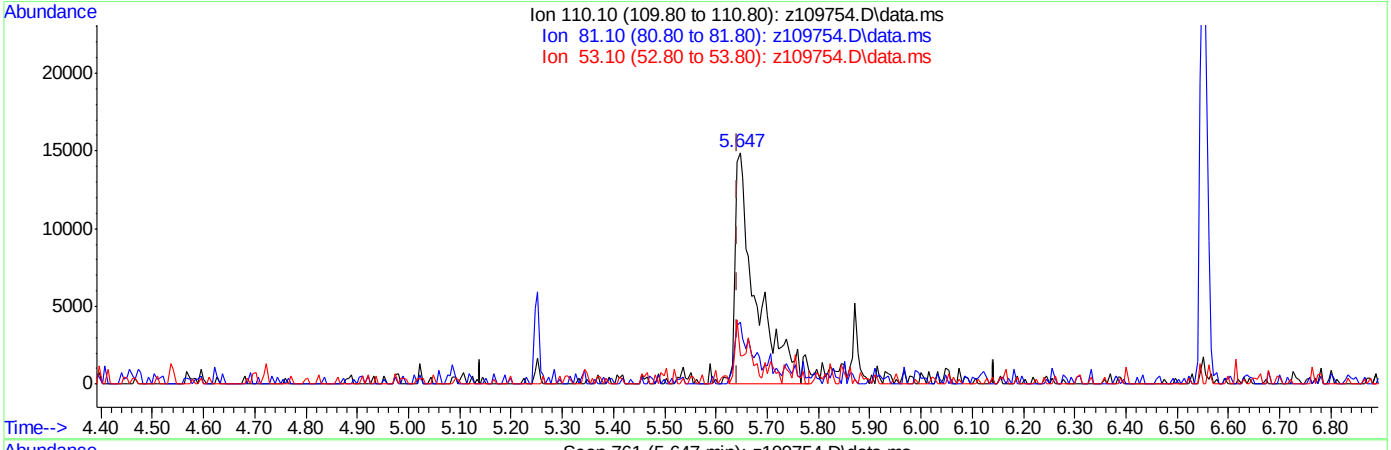
Ion	Exp%	Act%
110.10	100	100
81.10	25.30	22.81
53.10	19.60	20.09
0.00	0.00	0.00

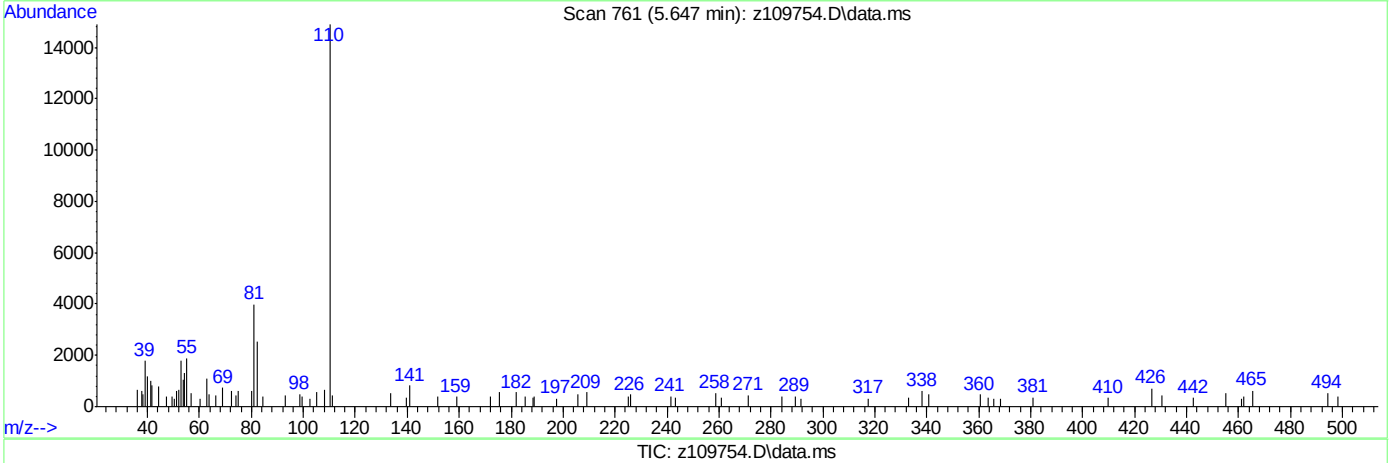
SGS ACCUTEST JC19473

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

Z109754.D edits: Hydroquinone

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	

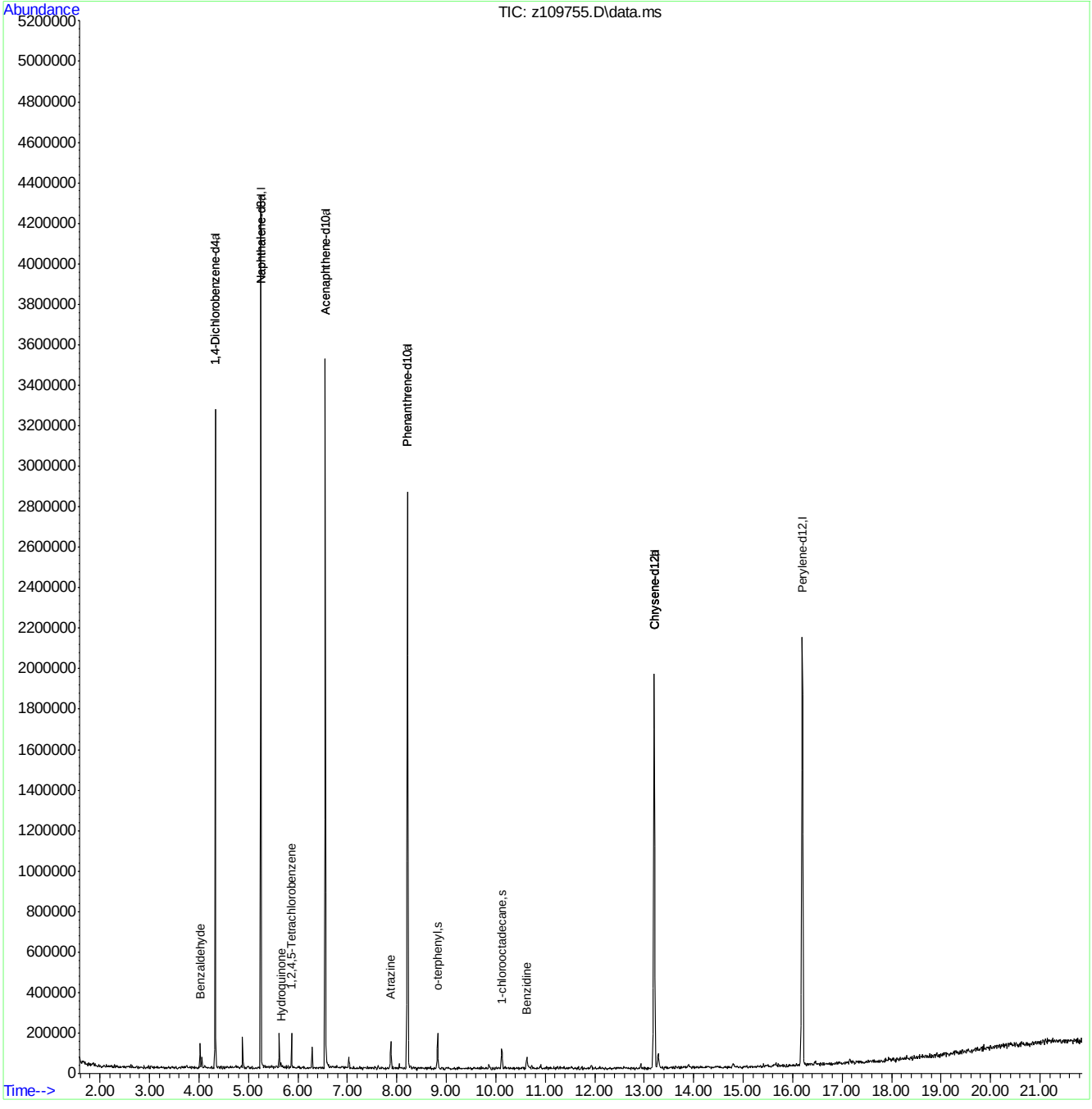
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.99
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



MZ5485.M Thu Apr 14 10:12:11 2016 RTE

Page: 2

Manual Integration Approval Summary

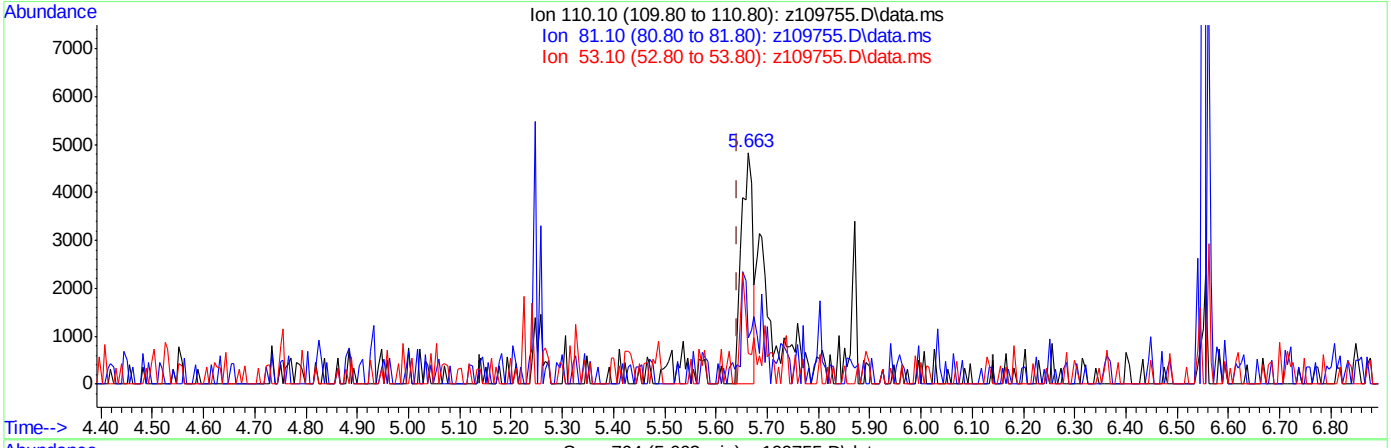
Sample Number:	EZ5486-IC5486	**Method:**	SW846 8270D
Lab FileID:	Z109755.D	**Analyst approved:**	04/14/16 12:00 Arielle Cocozza
Injection Time:	04/14/16 04:29	**Supervisor approved:**	04/14/16 15:48 Nina Pandya

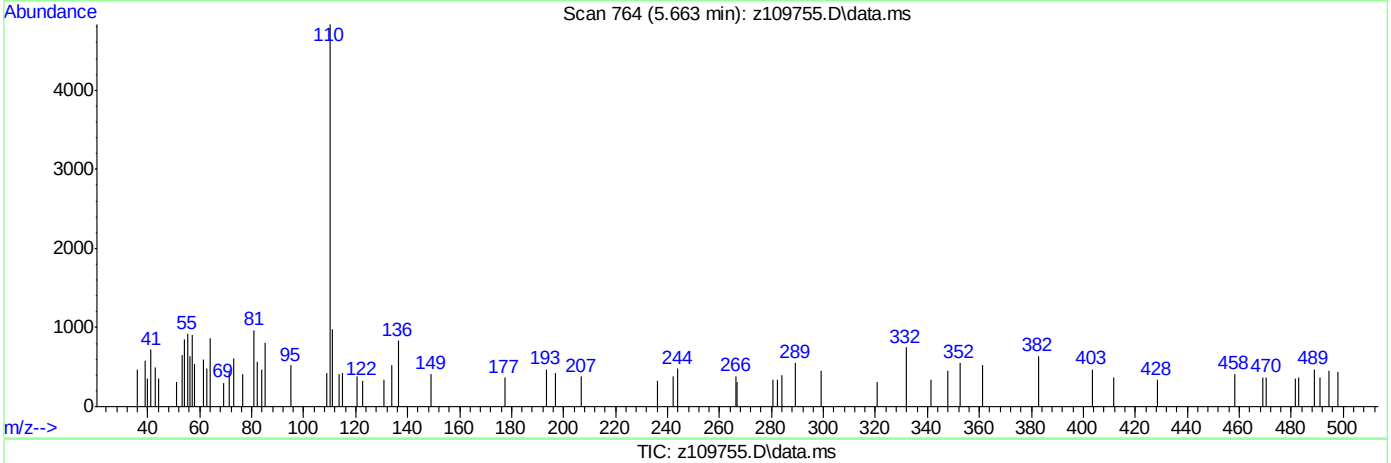
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		5.66	Poor instrument integration

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

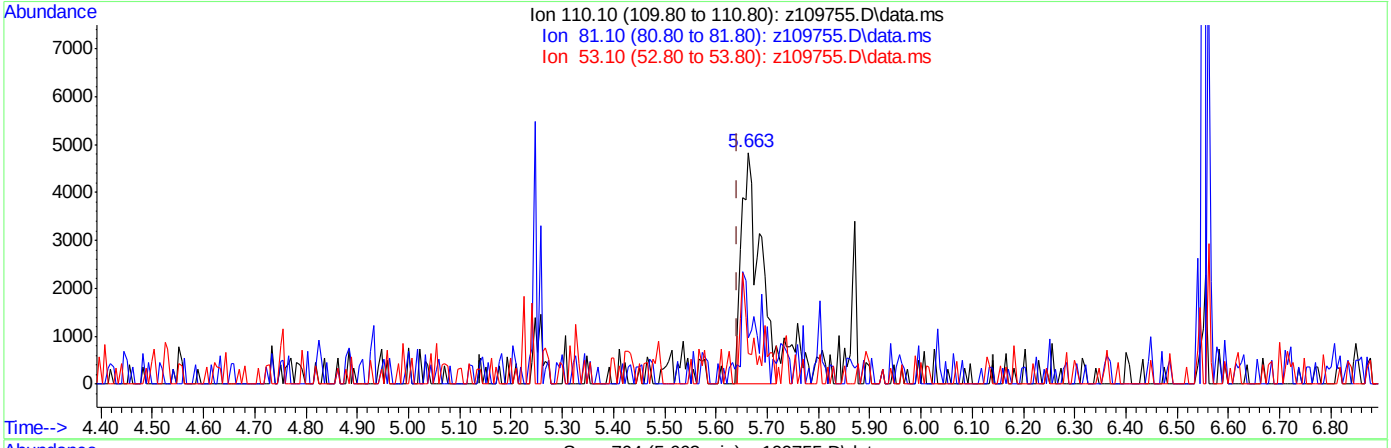
response 7265

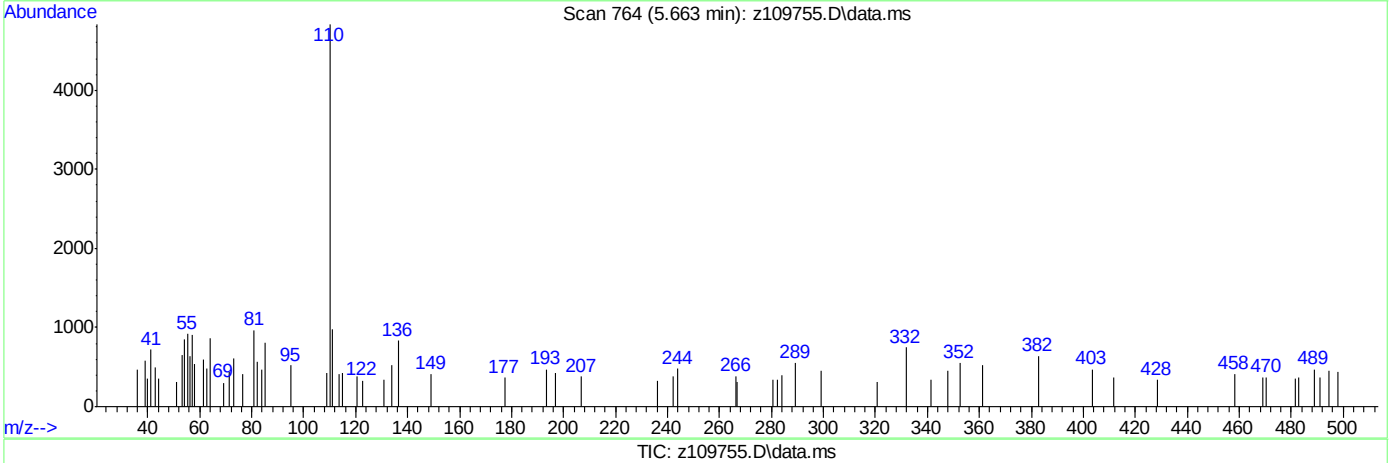
Ion	Exp%	Act%
110.10	100	100
81.10	25.30	2.73
53.10	19.60	4.48
0.00	0.00	0.00

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 JC19473

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

7.6.100

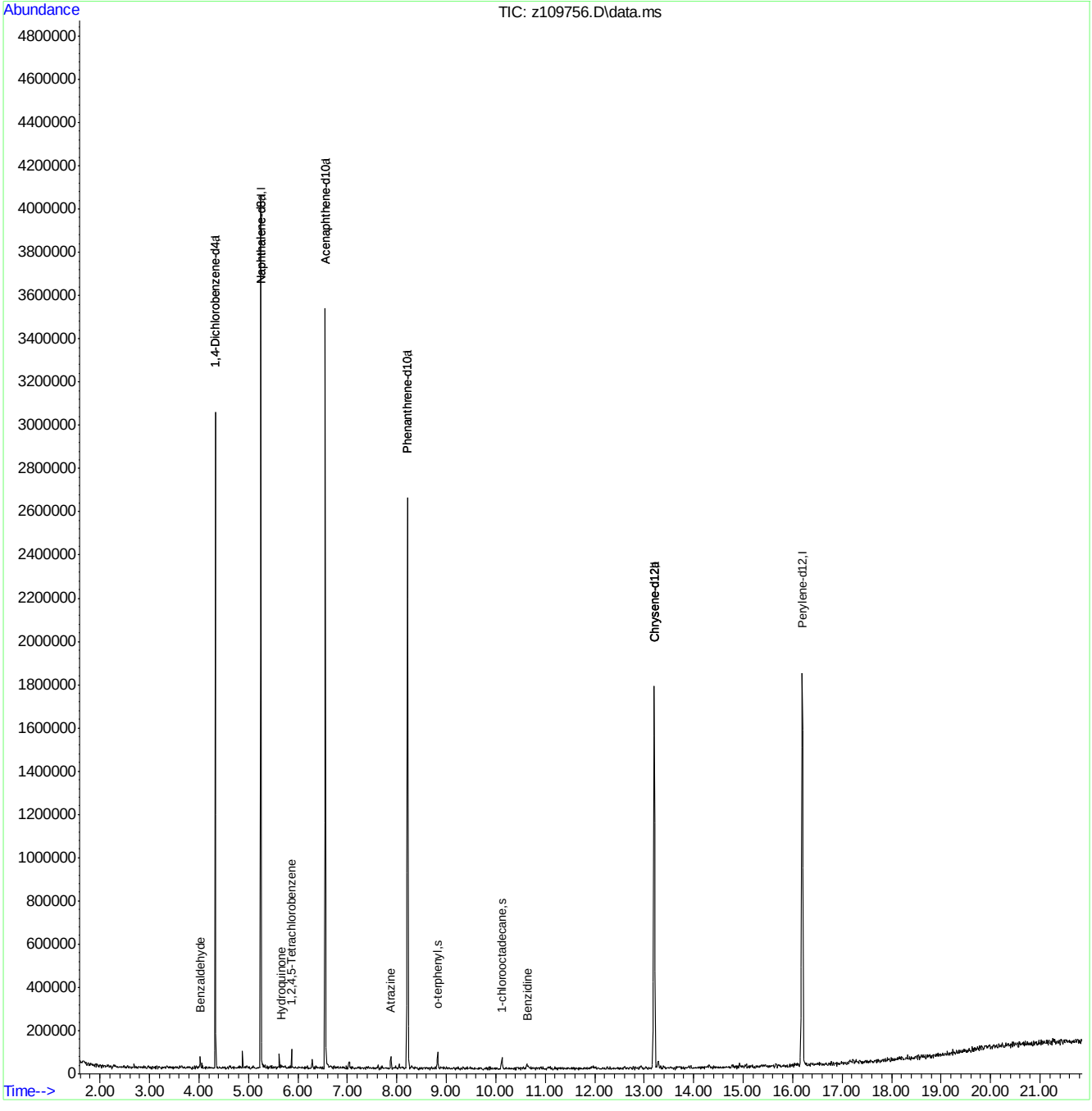
7

SGS ACCUTEST JC19473

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



MZ5485.M Thu Apr 14 10:13:06 2016 RTE Page: 2

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

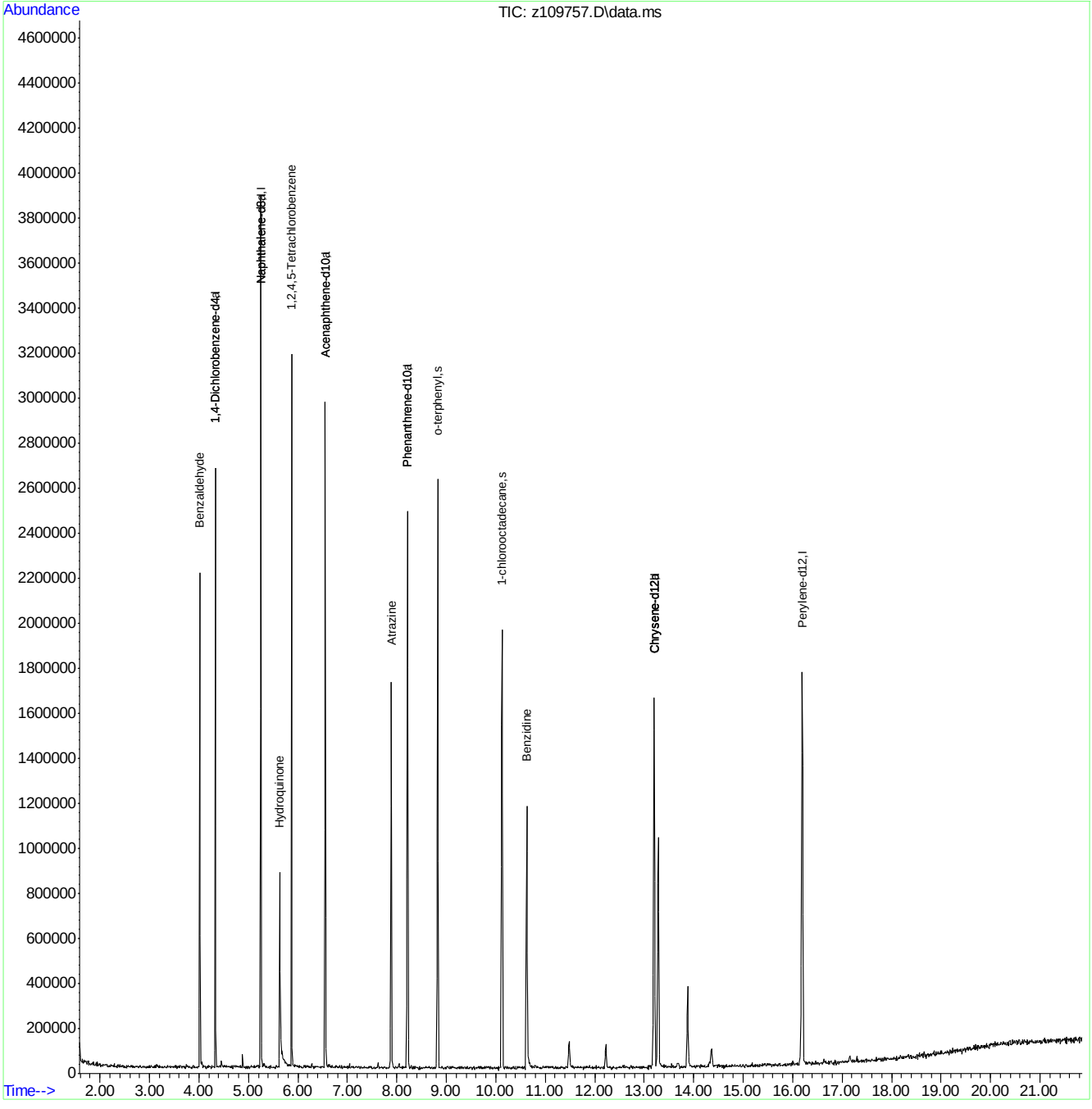
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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 JC19473

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

7.6.102

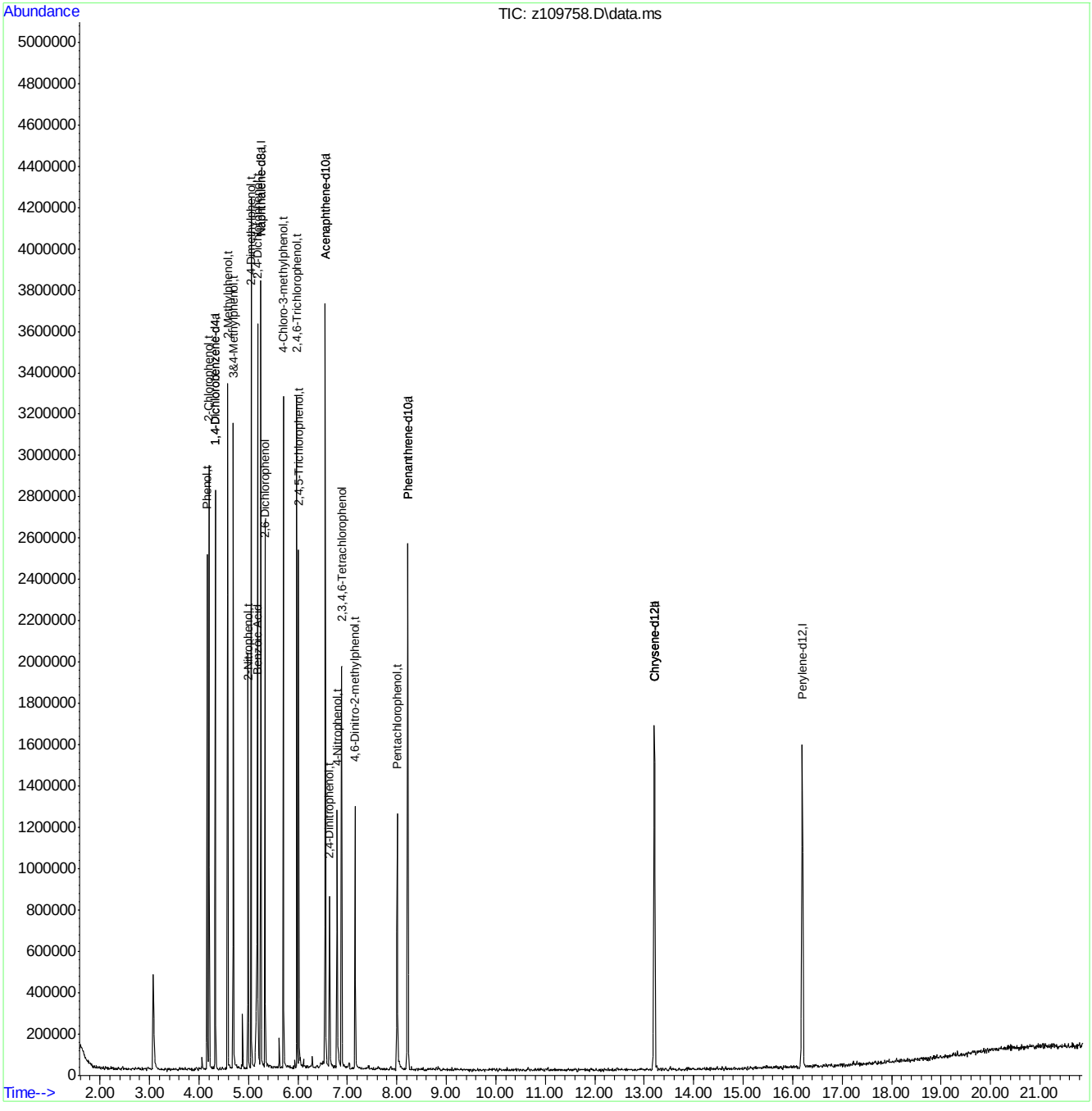
7

SGS ACCUTEST JC19473

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



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

7.6.103

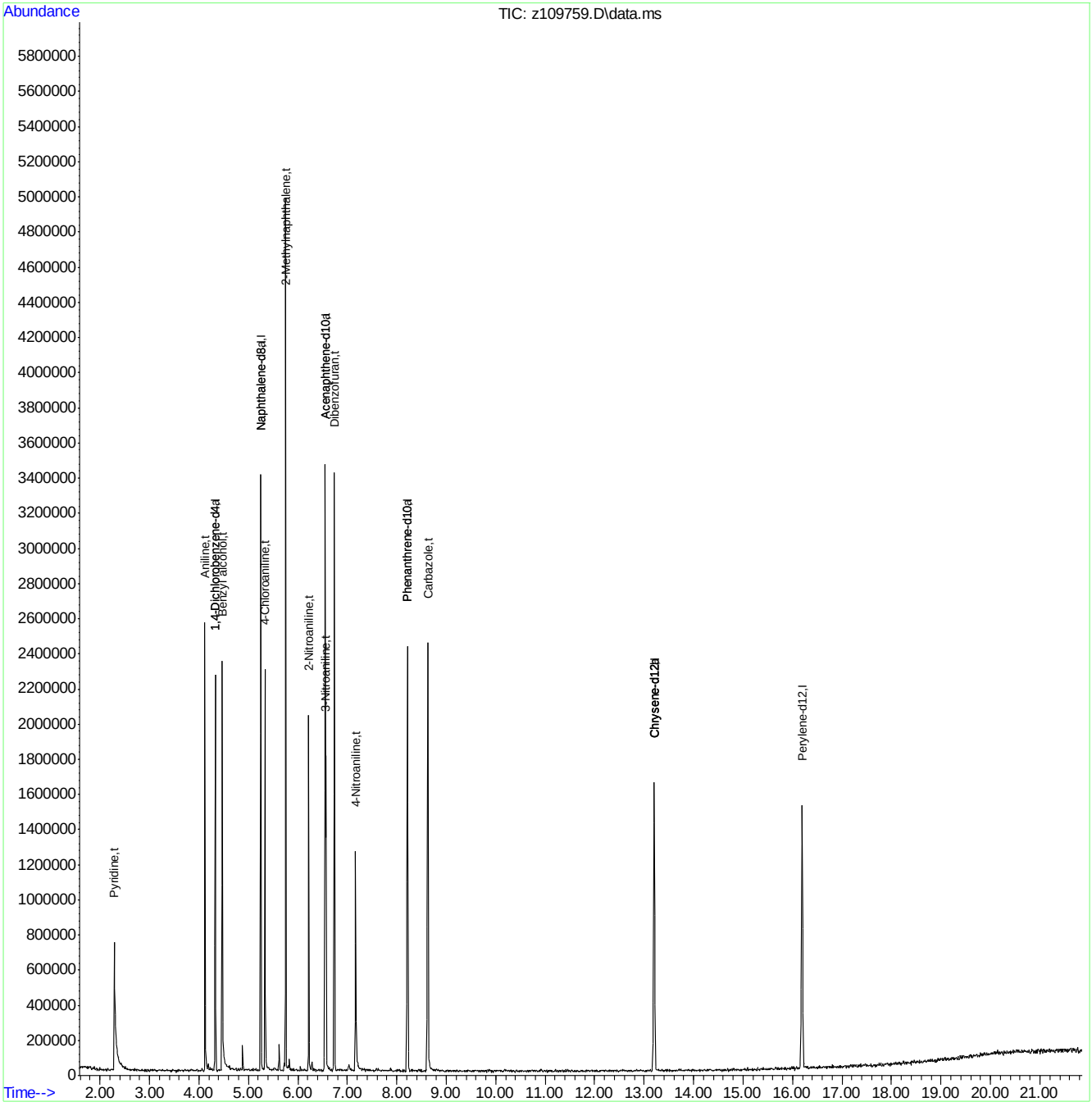
7

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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

7.6.104

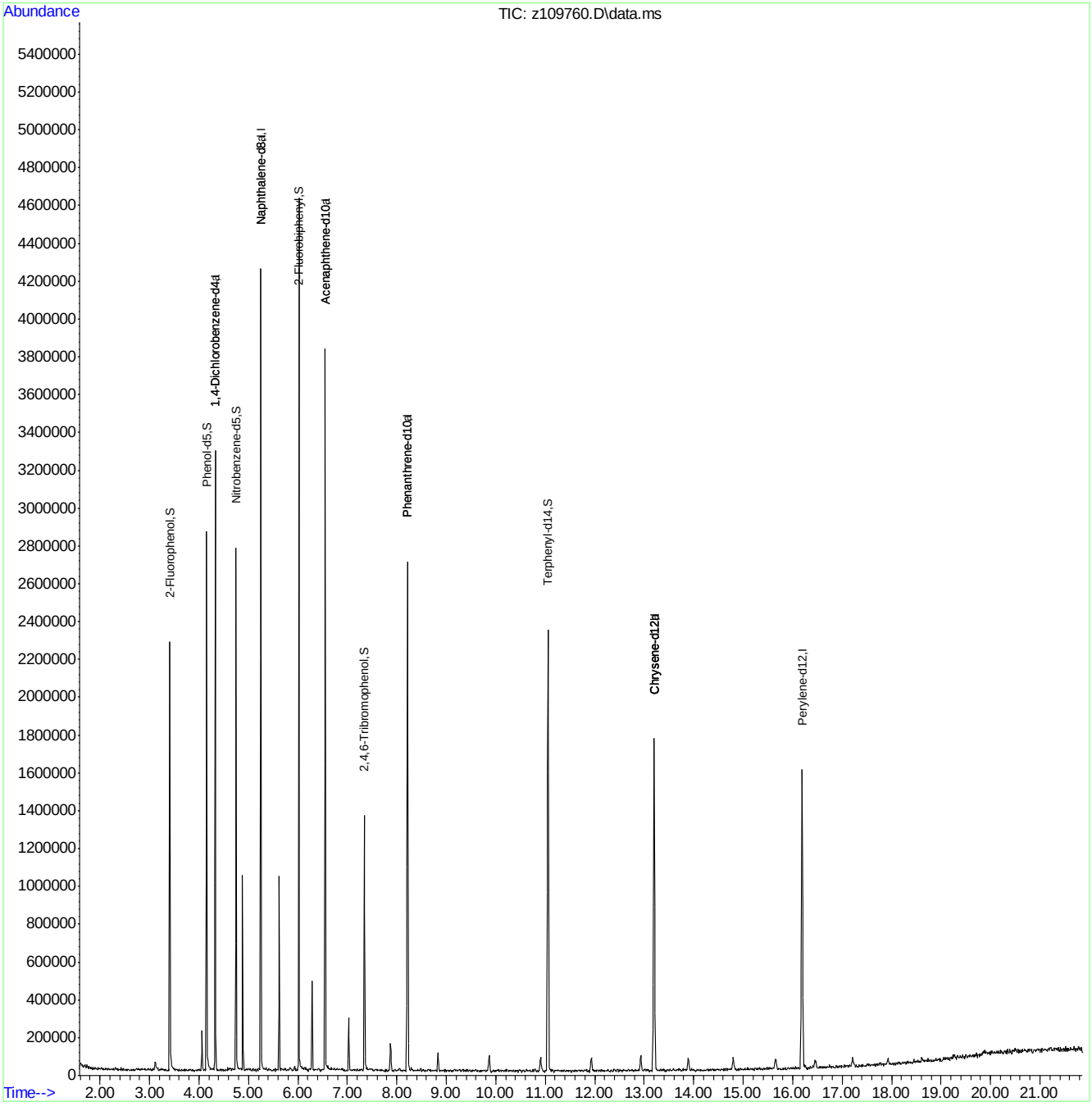
7

SGS ACCUTEST JC19473

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 JC19473

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

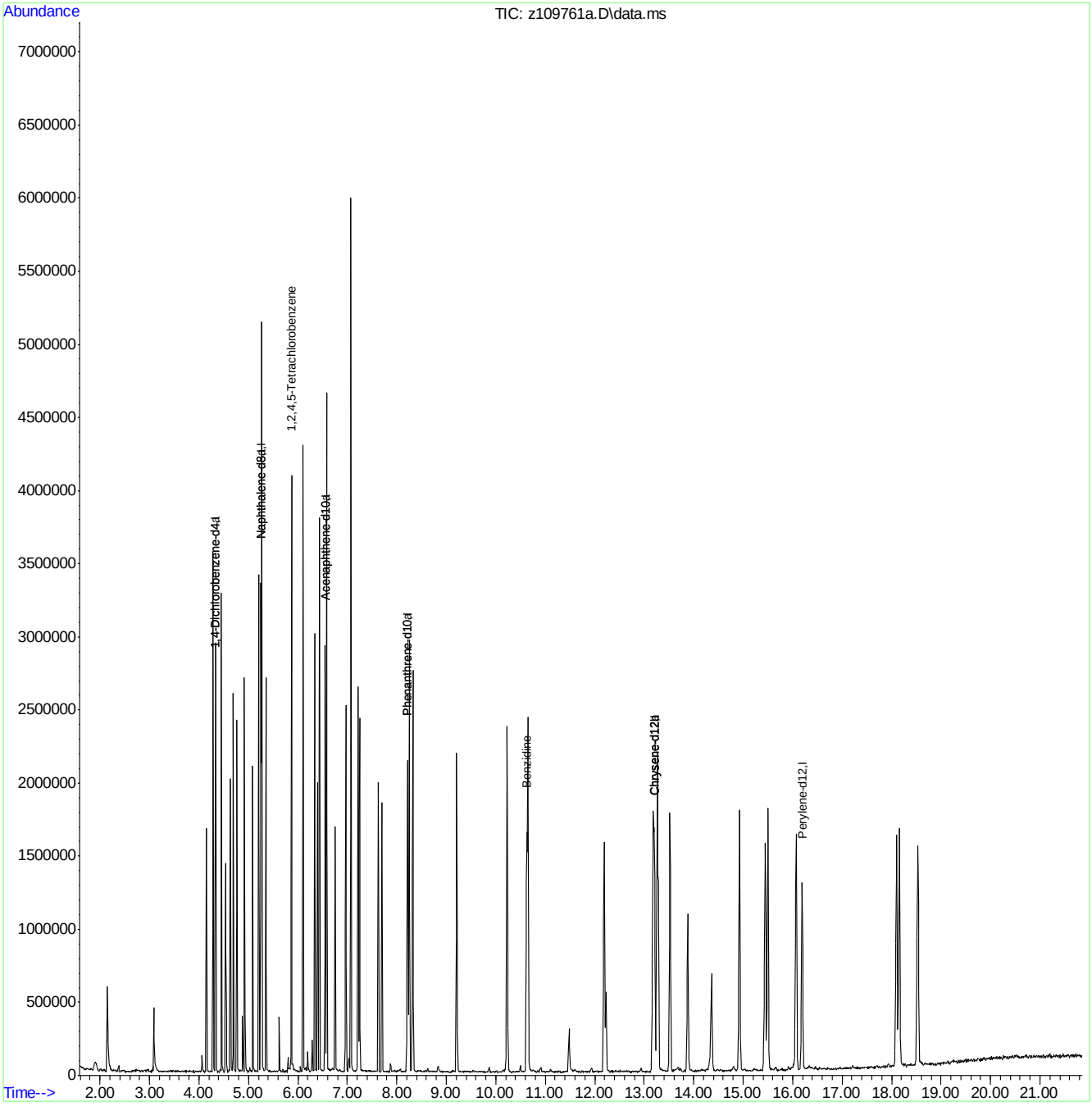
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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 JC19473

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

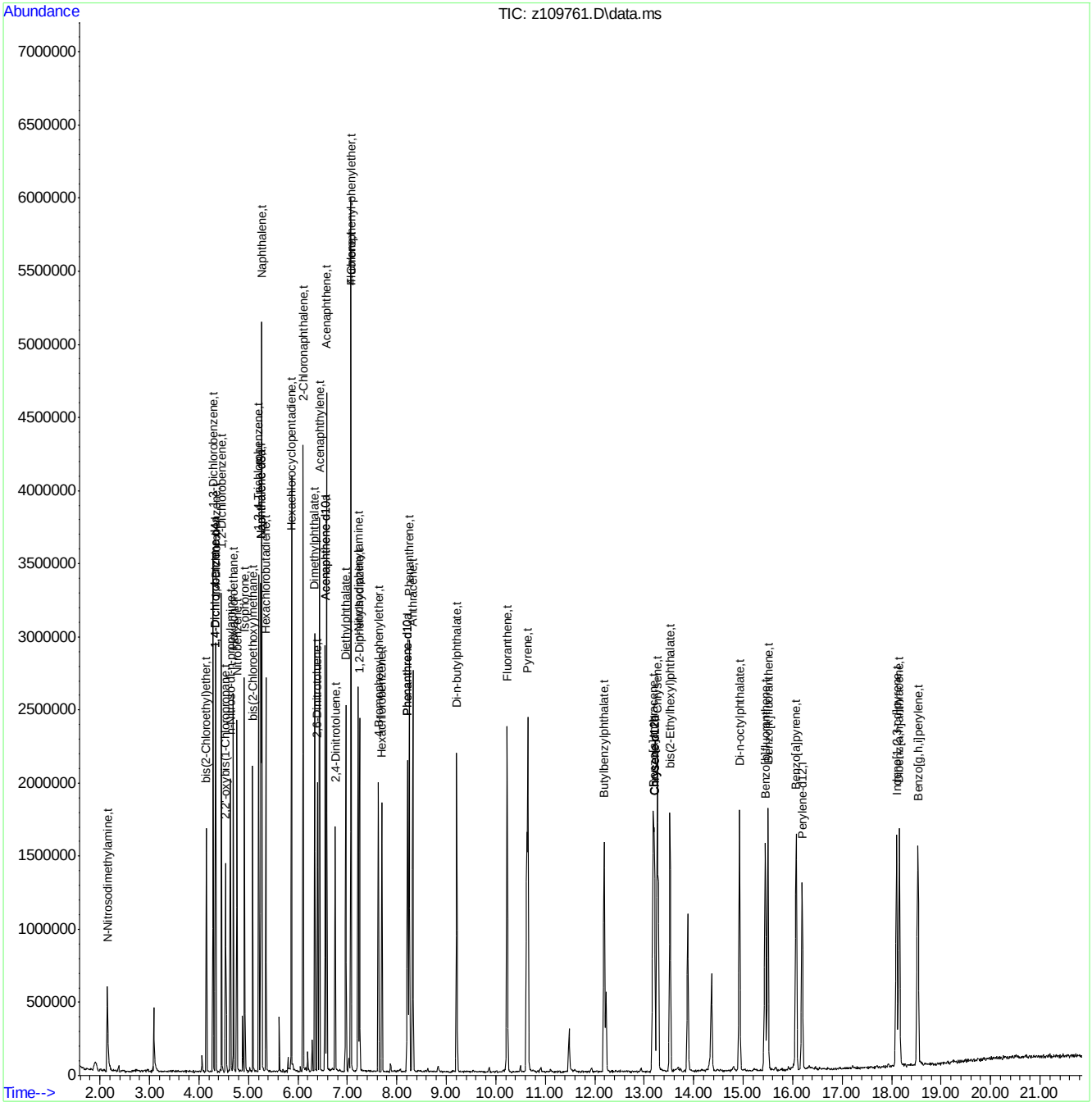
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19473

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



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

7.6.107

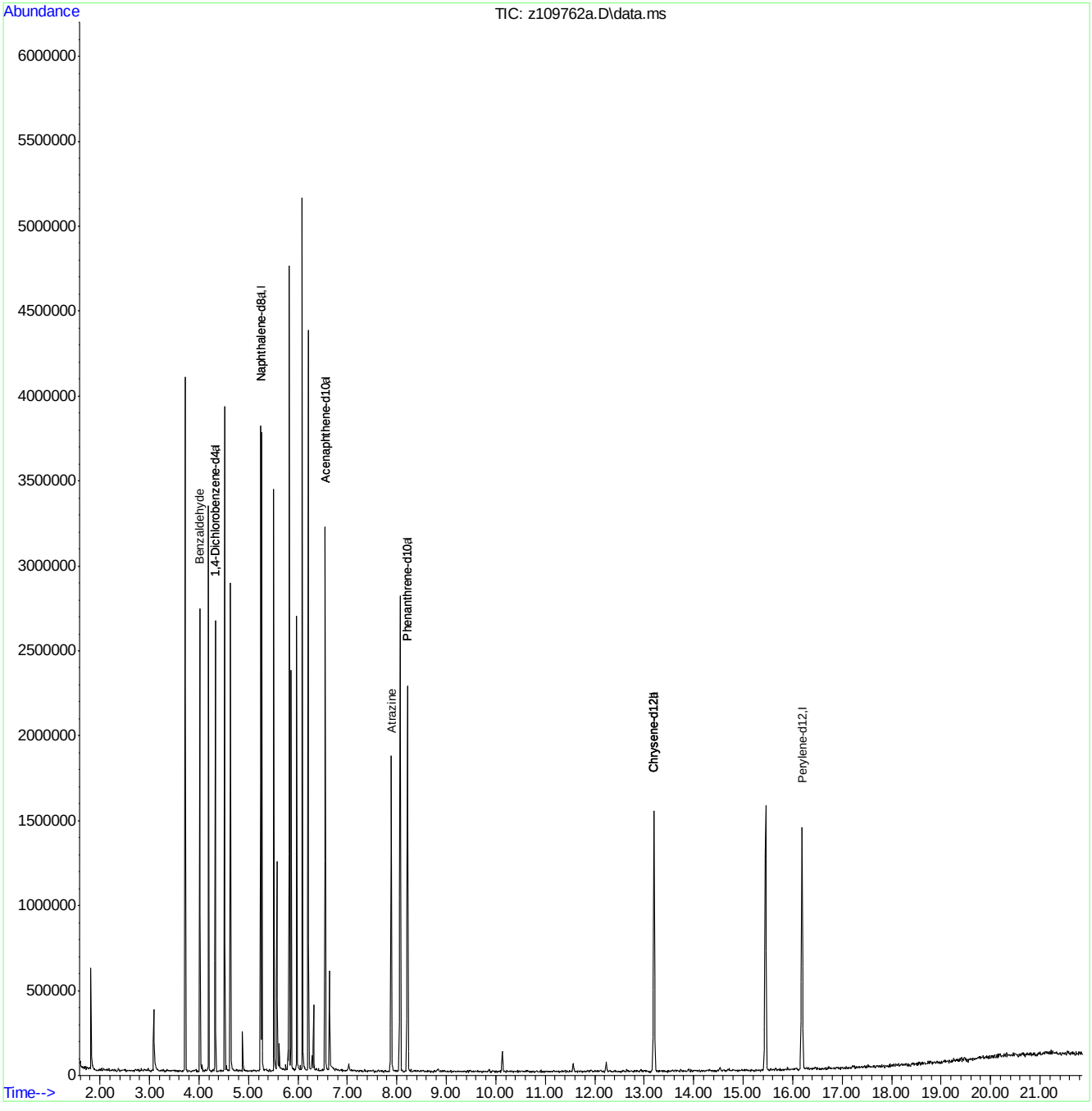
7

SGS ACCUTEST JC19473

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



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 JC19473

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

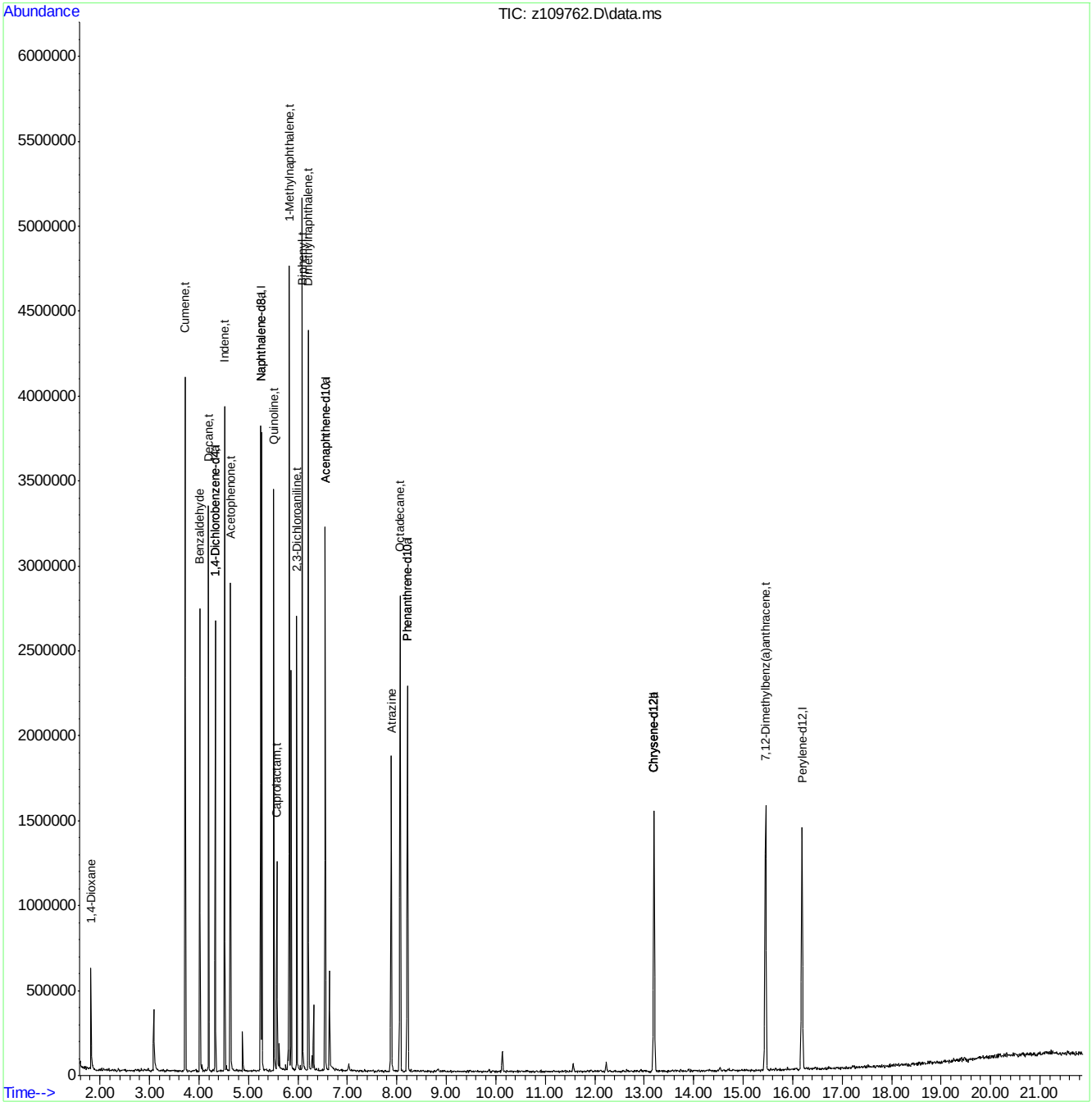
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

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 JC19473

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

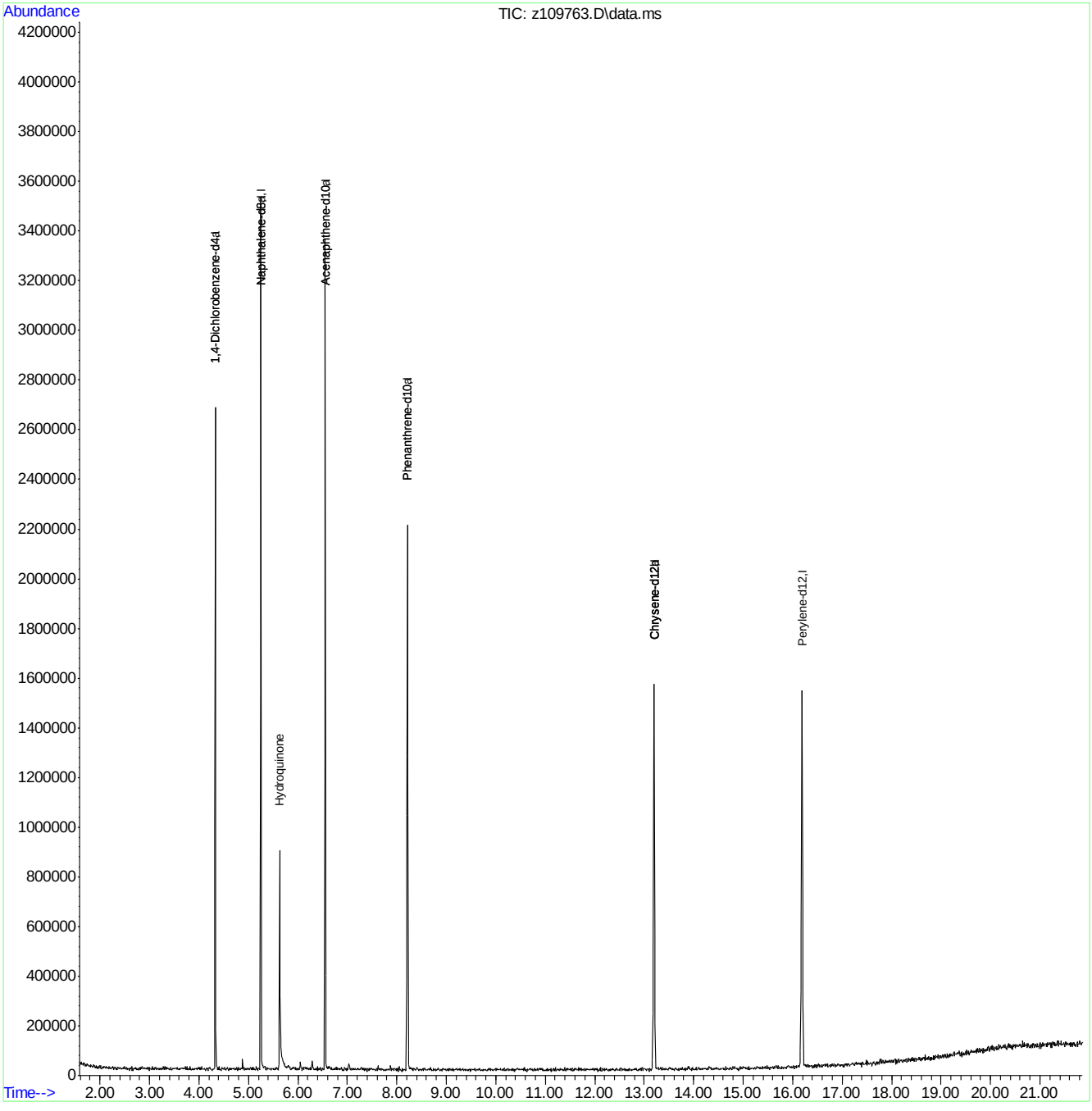
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS 773 of 1308 ACCUTEST JC19473

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

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

7.6.110

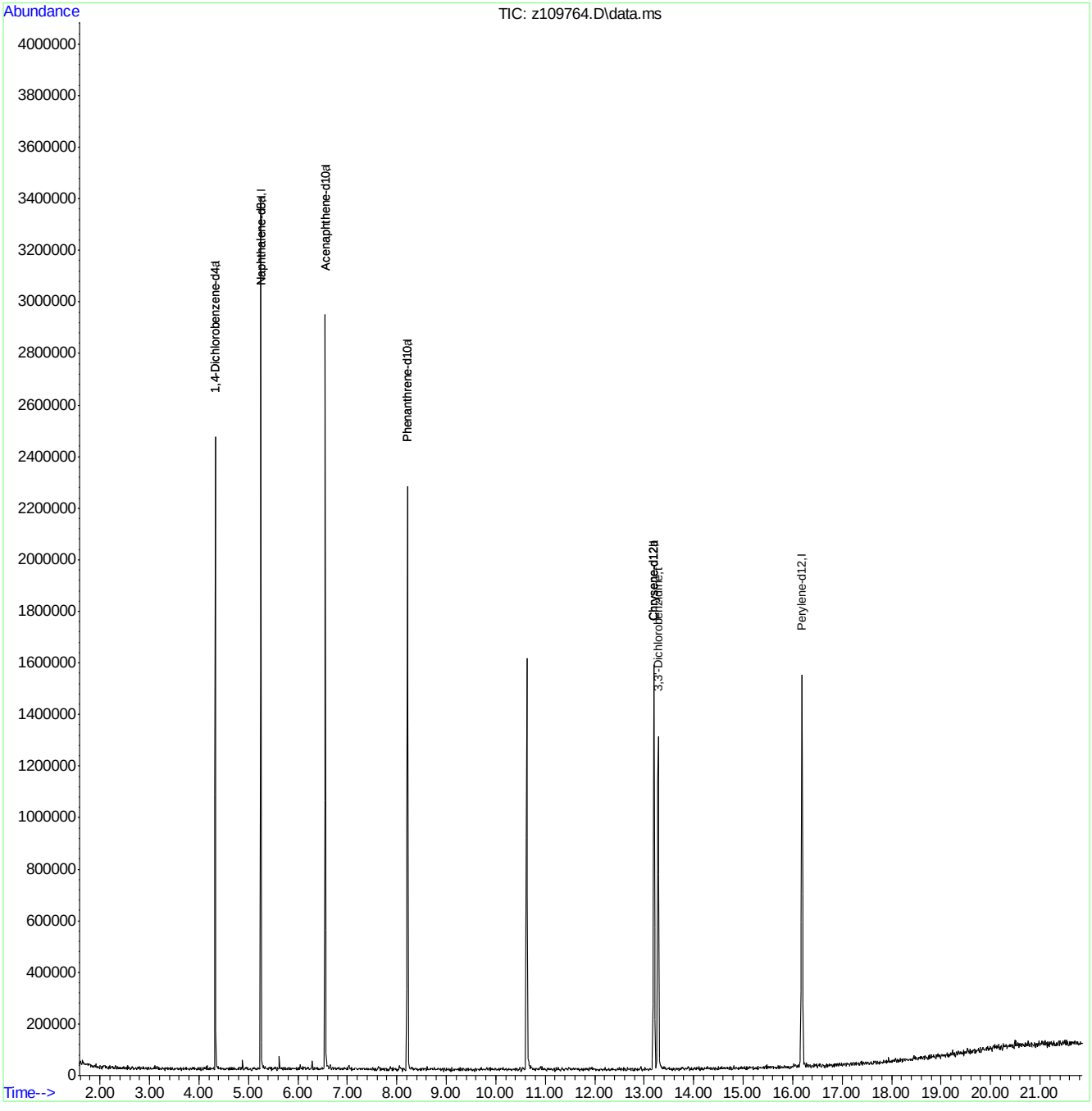
7

SGS ACCUTEST JC19473

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



SGS ACCUTEST JC19473

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

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

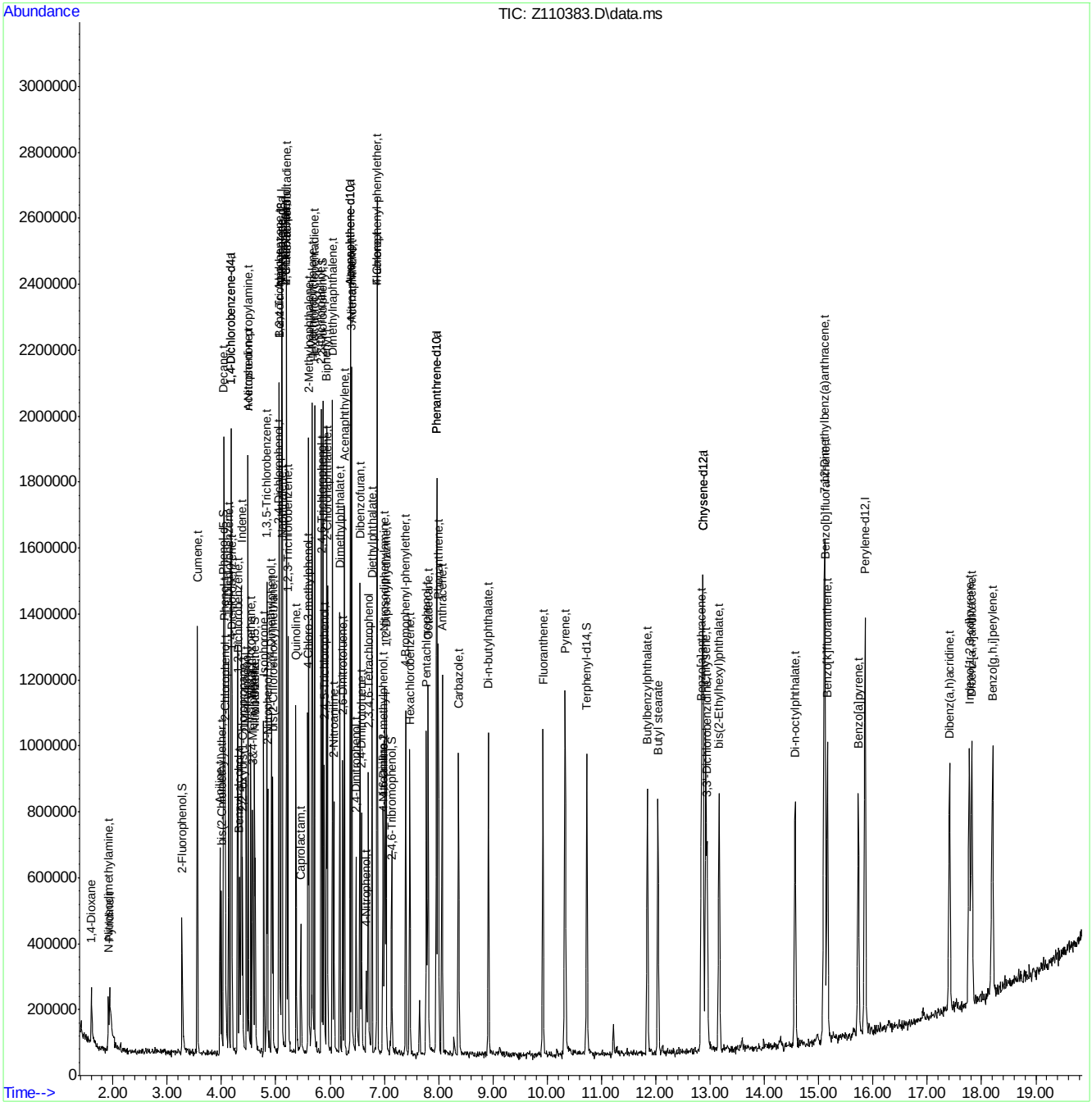
7.6.111

7

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

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SGS ACCUTEST JC19473

Manual Integration Approval Summary

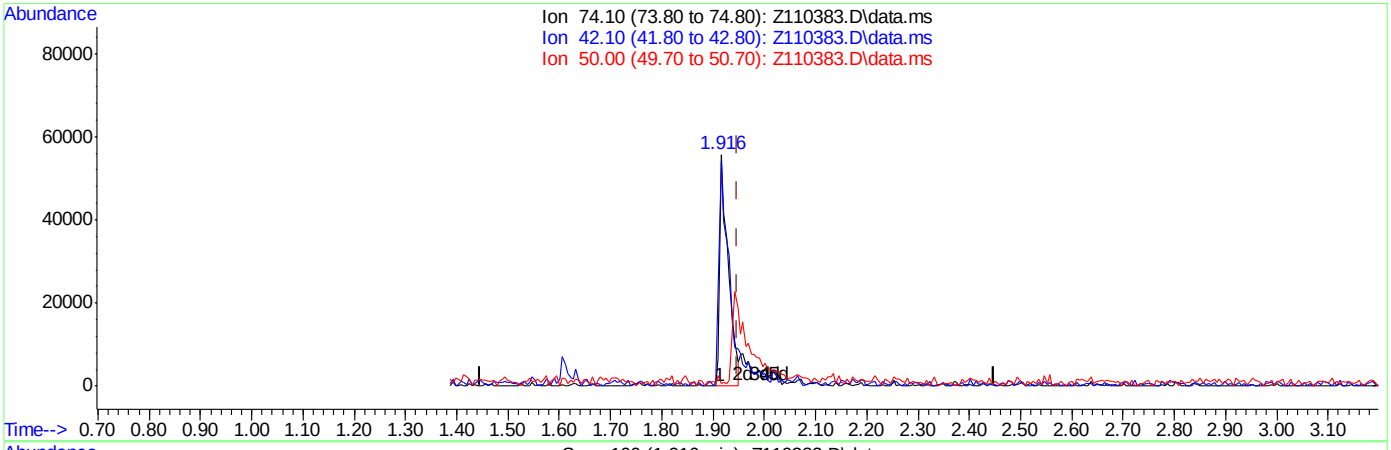
Sample Number:	EZ5515-CC5485	**Method:**	SW846 8270D
Lab FileID:	Z110383.D	**Analyst approved:**	05/05/16 11:52 Arielle Cocozza
Injection Time:	05/05/16 09:50	**Supervisor approved:**	05/05/16 16:22 Nina Pandya

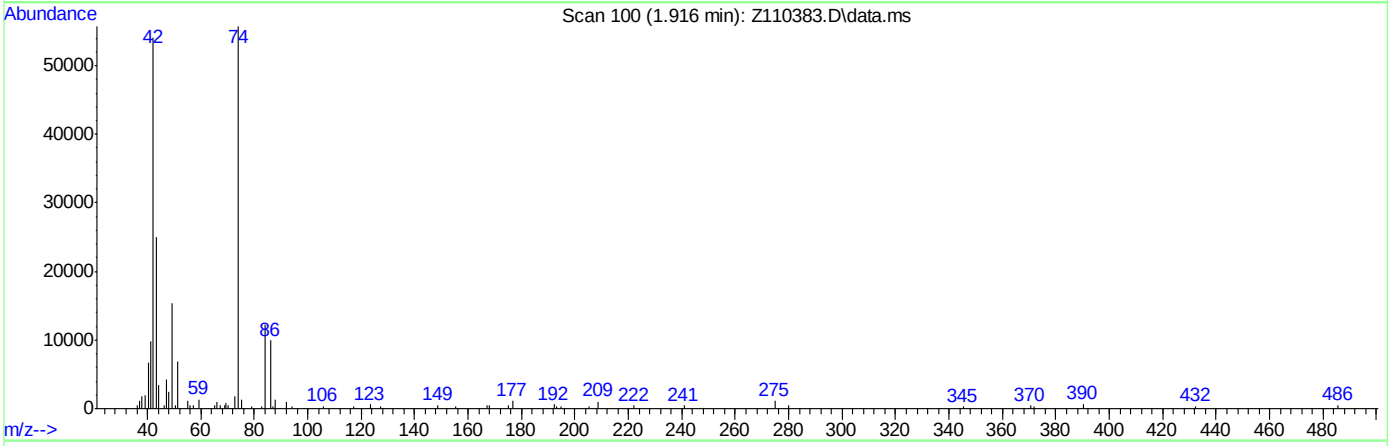
Parameter	CAS	Sig#	R.T. (min.)	Reason
n-Nitrosodimethylamine	62-75-9		1.92	Poor instrument integration
Benzoic acid	65-85-0		5.06	Overlapping peak

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

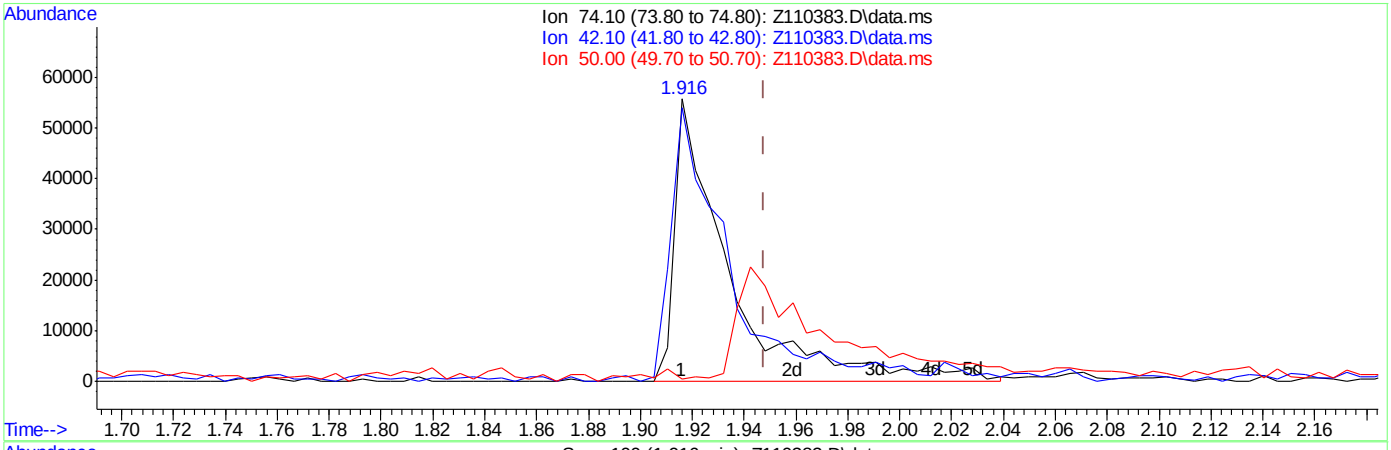
response 63280

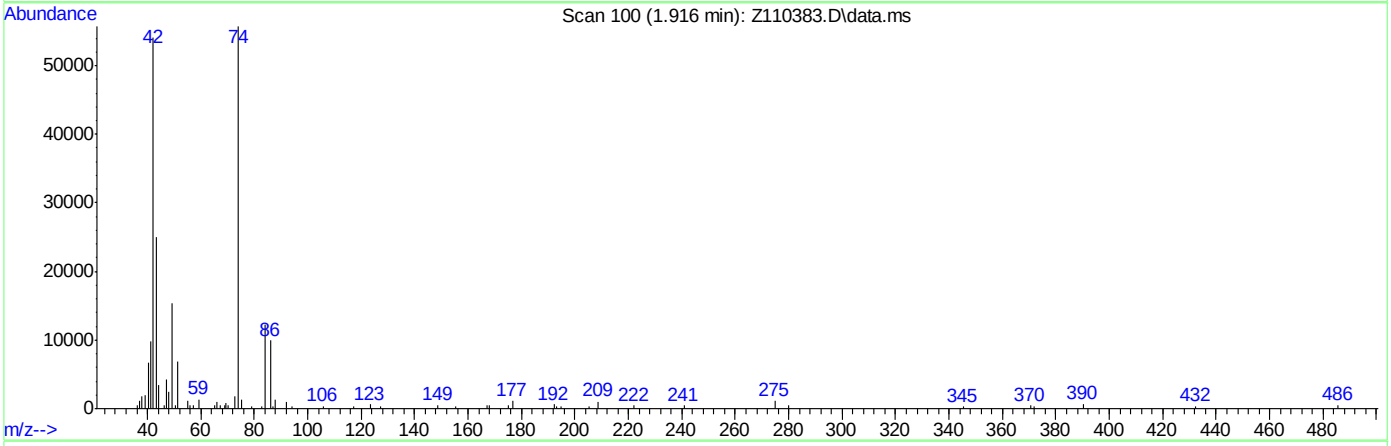
Ion	Exp%	Act%
74.10	100	100
42.10	94.50	93.16
50.00	0.00	0.00
0.00	0.00	0.00

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

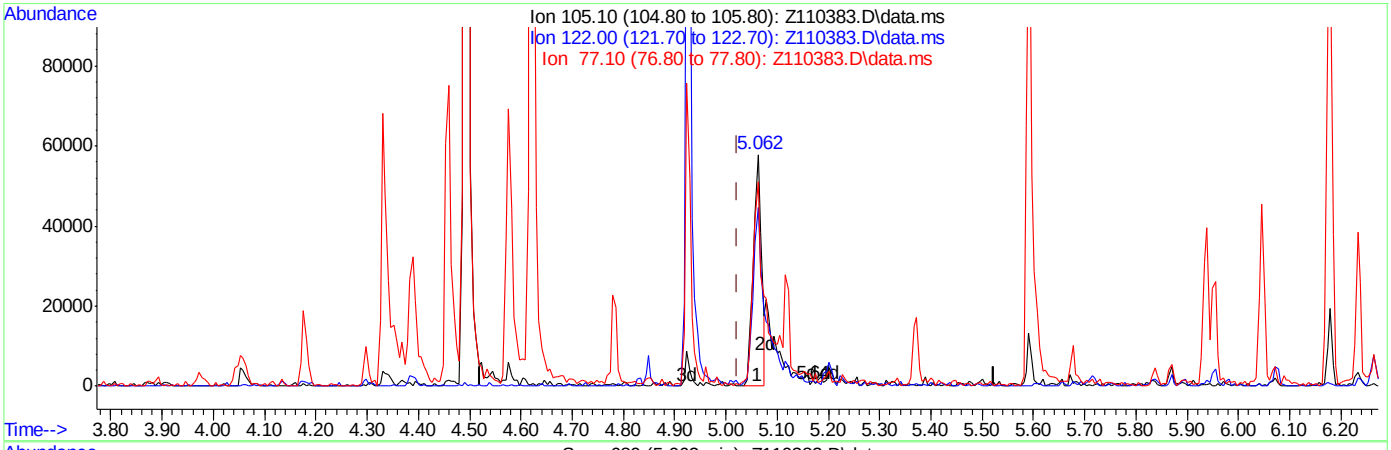
response 81363

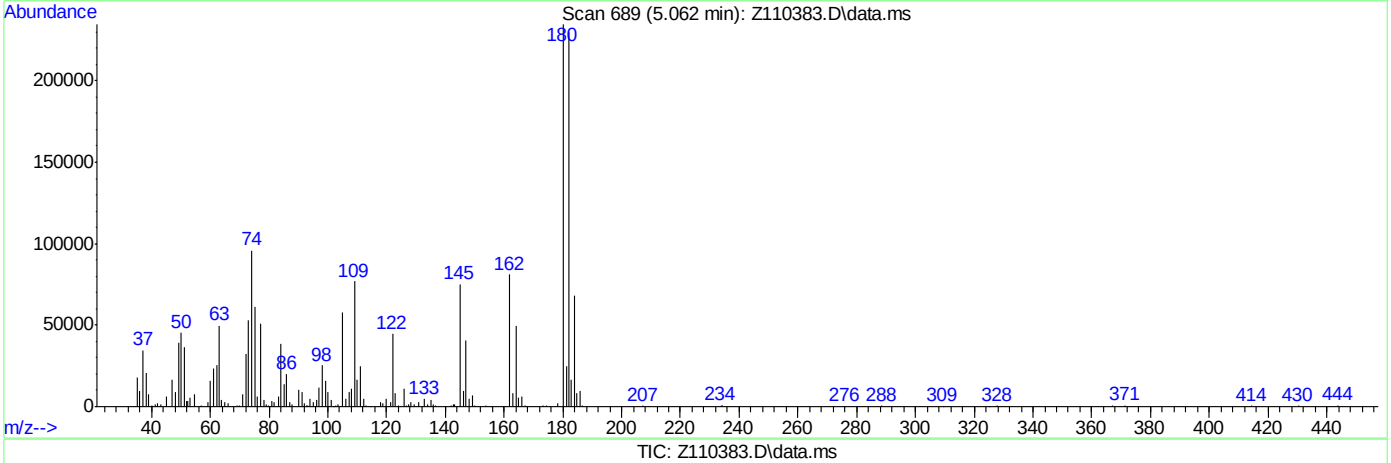
Ion	Exp%	Act%
74.10	100	100
42.10	94.50	96.97
50.00	0.00	0.94
0.00	0.00	0.00

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





TIC: Z110383.D\data.ms

(31) Benzoic Acid

5.062min (+0.040) 15.78ppm

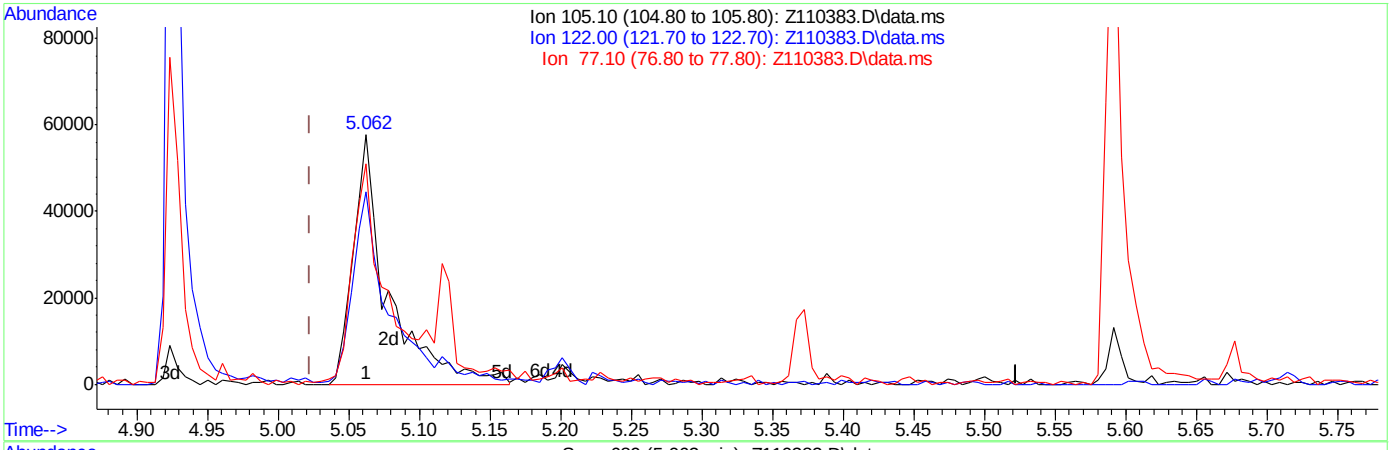
response 63223

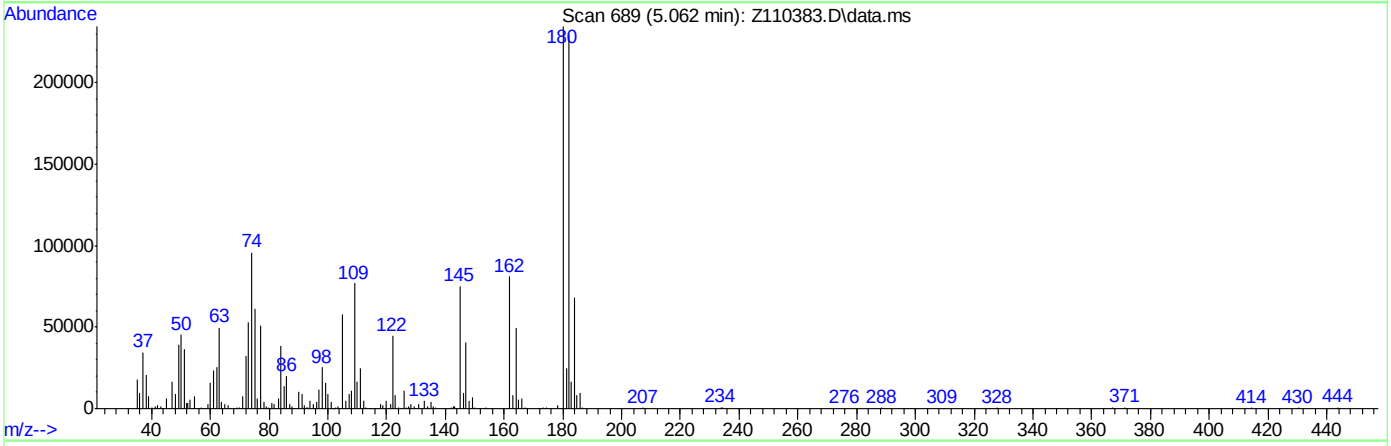
Ion	Exp%	Act%
105.10	100	100
122.00	92.10	70.88#
77.10	83.70	80.12
0.00	0.00	0.00

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 JC19473

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

7.6.112

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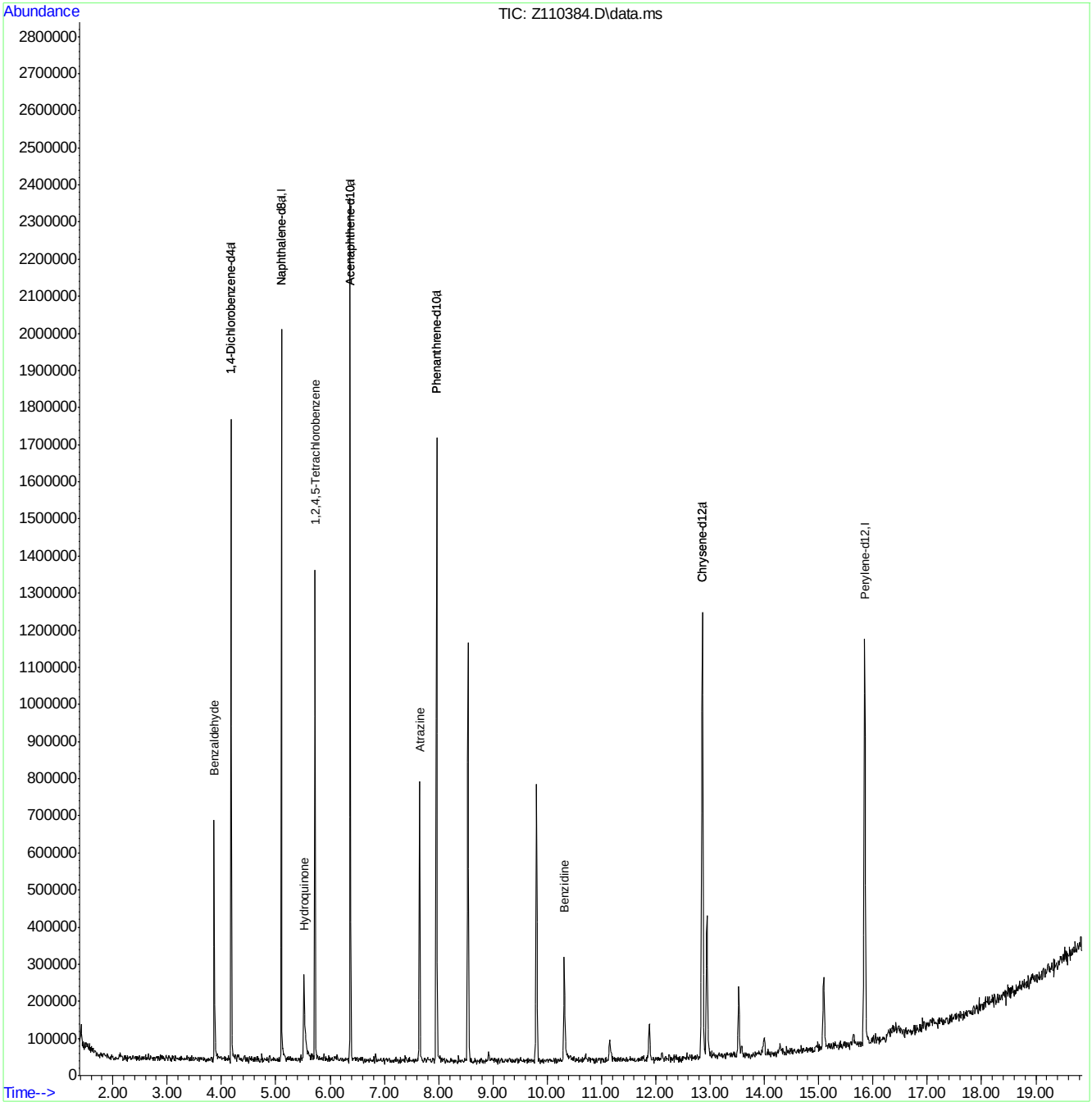
SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

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 SUM		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		AN 4/29/16			OK	good for #89. benz. ok can't run 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

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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
	BE82684	dftpp			W	1					OK	9:39AM
	82685	ICV3620-50		Benzidine std		2					OK	SV161935148 ~~benzidine~~ 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 30mx0.25mmx.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(173)	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					↓	2:47 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	-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

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page #7	

Columns: ZB5msplus3Dmx 21mmx.25µ

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: AMW

Date: 4/28/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	~~3E~~ 82703	ICV3623-1		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~~ 9
	82708	ICV3623-5D		BN2		14					OK	(a) AN 4/27/16 134 contain SV151877 ~~35E~~ [100 ↓ NOS
	82709	ICV3623-5D		Benzidine 3rd		15					OK	SV161935-14B
	~~82710~~											9:44pm
	AN 4/27/16 (a)											

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

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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
1622061	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 wost 2ppm				4					OK	SVS 157827-128C.
	83091	OP93597-MB1	935971	AB8270 ⊕	S	5		+	/	\	OK	
	83092	-BS1				6			/	\	OK	1245TCBr
	83093	JC18666-9P	93597A-1	SIMPAH	S	7			/	\	OK	
	83094	JC19414-1	93597-1	BPAH	S	8			/	\	OK	
	83095	OP93597-MS		AB8270		9			/	\	OK	
	83096	-MSD		↓		10			/	\	OK	
R	83097	JC19851-1	93951-1	ABPPL ⊕	S	11	5	x	4.5 ↓	\	OK	diluted due to matrix VE SML RR1.2 1.5
↓	83098	JC19852-1		↓		12	2	x	4.5	\	OK	RR1.2 1.5 ↓
	83099	-2				13	10		4.5 ↓	\	OK	VE SML
R	83100	JC19511-1	93596-1	ABTCL20	S	14	2		3.45 ↓		not using	female + 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

7.7.4

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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@30mk.25mmk25µm

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: AMO.

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 +NWAP		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	

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

ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E3M2855

Date: 4/21/16

Analyst Signature: [illegible]

Columns: Rxi-5SilMS 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M8M2855sim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
		4/21/16

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: [illegible]

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 ~~IC2855-1.0~~ 4/21/16		4/21/16 ~~BRASIM~~	W	1					ng	deg ↑ resistant
	60762	DFTPP			W	1					Ok	1:31pm
	60763A	IC2855-1.0			W	2					ok	SVI51827-104C non A fluoranthene method
	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 E3M2870

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 5/4/16

Columns: 25-5ms 30mx.25mmx.25um

Method 8270D/625

Initial Cal. Method M3M2855sim

Injection Volume: 1 µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15824HOT	DFTPP	50ppm
SV16P35-9	SIM Std.	1.00ppm
-7	SIM Internal	40ppm
102641	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: Annie

Date: 5/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3m61044	DFTPP			W	1					OK	9:09AM
	61045	CC2855-10		Brasim	W	2					OK	4,6dinitrol
	61046	OP93555MB	93555-1	BS270		3			✓	✓	OK	Hexin mb
	61047	-BS12				4			✓	✓	OK	
	61048	JC19473-2		1,4dinx+NAP		5			✓	✓	OK	
	61049	-1				6			✓	✓	OK	
	61050	JC19313-1		BSIMNJ +1,4dinx		7			✓	✓	OK	
	61051	-2				8			✓	✓	OK	
	61052	JC19332-3		BSIMNJ +1,4dinx		9			✓	✓	OK	
	61053	-4				10			✓	✓	OK	
	61054	-5				11			✓	✓	OK	
	61055	OP93555MS		BS270		12			✓	✓	OK	
	61056	-MSD				13			✓	✓	OK	
	61057	OP93556MB	93556-1	BS270		14			✓	✓	OK	
	61058	-BS12				15			✓	✓	OK	
	61059	JC19467-10		BSIMNJ +1,4dinx		16			✓	✓	OK	
	61060	JC19468-10				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

SGS ACCUTEST JC19473

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2870

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 5/4/16

Columns: 20-5MS @ 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M3M2855Sim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Sleep 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: AMO

Date: 5/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3m61001	JC194692	935801	BS1MNU tuck	W	18			✓	✓	OK	
	61002	OP93123-MB	93123-1	BS270	S	19			/	/	OK	8:52pm
	61003	-MS1				20					OK RR	Out of Clock 9:24pm
	61004	JC189723		1-Chlorinap		21					RR	Out of Clock 9:57pm
	61005	OP93181-BS1	93181-1	BS270	W	22			/	/	OK	Ran After 3m61055

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 JC19473

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.
S1516048	DFTPP	50ppm
S1161935-9	SIMStd	1.0ppm
-7	SIM Internal	40ppm
1102041	DCM-Ethanol	—

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	B8270	S	3			✓	✓	ok	
	61093	-MSD				4			✓	✓	ok	
	61094	JC18[illegible]-9P		PCB		5					RR	CCV
	61095	JC19423-1		1,4dioxane		6					RR	Bad injection
	61096	JC19473-3		1,4dioxane		7			✓	✓	ok	
	61097	OR93559-MS		B8270		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

7.2.7

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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.
SHS1524105	DFTPP	50ppm
SHT0935519	SMSTD	100ppm
-7	SM Internal	40ppm
1602001	DCM (Washer)	—

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		1,4dioxane		4			✓	✓	OK	
	61124	JC194231		~~PCB~~		5			✓	✓	OK	
	61125	JC18aaa9P		PCB		6			✓	✓	OK	Run after 3m61123
	61126	CP93662-MB1	936621			7			✓	✓	OK	
	61127	-BS12				8			✓	✓	OK	
	61128	JC19644-1		1,4dioxane		9			✓	✓	OK	
	61129	-2				10			✓	✓	OK	
	61130	-3				11			✓	✓	OK	
	61131	JC19089-1		PCB		12			/	✓	OK	Sent to RX
	61132	-2				13			/	/	OK	
	61133	-3				14			✓		ok	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

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 Bms 0.25mx.25mmx.25um

Method 8270D/625

Initial Cal. Method M3M2859

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	JC19637-7	93602-1	PCP	W	18					not ran	cut from sequence.
	61138	OP93602-MS		8B270		19			/	/	OK	
	61139	-MSD				20			/	/	OK	
	61140	JC19555-1	93609-1	SIMPAH	W	21			/	/	OK	
	61141	JC19867-7A	93718-1	BSIMNJ 1,4dioxane	W	22	5		/	/	OK	
	61142	JC18972-3	93723-1	1,4dioxane	S	23			/	/	OK	8:51pm
	61143	OP93473-MSD		B8270		24			/		W	out of check 9:22pm
	61144A	OP93677bs2	93677-1	B8270	W	25			✓	✓	OK	reran as "A" file bad in calib. ran after 3M61130
	61145	JC19640-9F		1,4Dioxx		26			✓	✓	OK	
	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 JC19473

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6563

Print Analyst Name: Linsey

Analyst Signature: [illegible]

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.
SV151629-103	DFTPP	50 ppm
SV151827-60H	BNA	2 ppm
-60I	↓	1 ↓
CMS-B2	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: [illegible]

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

7.7.9

7

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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7.7.10

7

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 2nd 5MS PLUS

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM51829HP8	DFTPP	50ppm
CM5732	Internal Std.	40ug/ml
162107	DCM (Rinses)	—

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		APH	W	2					[initials]	SM51829-118A
	156081	-80				3					[initials]	-118B
	156082	ICV6566-50				4					[initials]	SM51827-85A
	156083	ICV6566-25				5					[initials]	-85B
	156084	-10				6					[initials]	SM51829-118E
	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

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.
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 ↓
CM-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: 1 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	icc6567-100		AP9SL		2					ok	
	156090	-80				3					ok	
	156091	icc6567-50				4					ok	
	156092	icc6567-25				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 ok	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 JC19473

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					[illegible]	SV151829-68 [illegible]
	156106	-50		APA 3rd		19					[illegible]	-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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7.7.12

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF 6600

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 5/3/16

Columns: 8B-5ms @ 20m x .25mm x .25um

Method 8270D/625

Initial Cal. Method MF6503

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827-10K	DFTPP	50ppm
SV151827-10KD	BNA	50ppm
SV161935-46	TCL42	25ppm
CM5732	Internal Std.	40ppm
1621641	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: AM

Date: 5-4-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F156751	DFTPP			W	1					OK	5.09pm
	156752	CC6563-25		BNA	W	2					OK	22.5m
	156753	CC6564-25		TCL42	W	3					OK	107↓
	156754	TCL42		verify calibr	N	4					OK	SV151827-21B ✓
	156755	OP93555-mb1	93555	AB8270+	W	5		+	/	/	OK	
	156756	-bs1	↓	↓	↓	6			/	/	OK	
	156757	J219473-1		ABSC - 2MNap + MNap		7			/	/	OK	
	156758	-2		↓		8			/	/	OK	
	156759	J219418-1		BNap + 2MNap		9			/	/	OK	
	156760	-2		↓		10			/	/	OK	
	156761	J219291-1		B CP51FO		11			/	/	OK	
	156762	-2		↓		12			/	/	OK	
	156763	-3				13			/	/	OK	
	156764	-4				14			/	/	OK	
	156765	-5		↓		15			/	/	OK	
	156766	J219295-1		BMNap + BCS		16		+	/	/	OK	↓ 1:4
	156767	-2	↓	↓	↓	17		+	/	/	OK	↓ 1:4

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 JC19473

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6600

Print Analyst Name: Sam Black

Analyst Signature: Sam Black

Date: 5/3/16

Columns: 28-5ms + 30m x 25mm x 25µm

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 28	

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: 5-4-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F156768	JZ19295-3	93055	BMN, BLS	W	18		+	/	/	OK	
	156769	-5		↓		19		+	/	/	OK	
	156770	JZ19313-1		BNJ TCL 200		20		+	/	/	OK	M 1:4
	156771	-2				21		+	/	/	OK	
	156772	JZ19332-3				22		+	/	/	OK	
	156773	JZ19332-4				23		+	/	/	OK	
	156774	JZ19332-5		↓		24		+	/	/	OK	
	156775	OP93555-ms		ABS270+		25		/	/	/	OK	
	156776	-msd	↓	↓		26		/	/	/	OK	4:56AM

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

7.7.13

7

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	10-7,111V
	150830	TCL42ver-1ppm			W	4					OK	SV15827-2B
	150831	CC6566-50		APP	W	5					OK	
	150832	OP93597-mb1	93597-1	ABS270	S	6		+	/	/	OK	
	150833	-lcs1				7			/		Missing	rr w/ restot baken.
	150834	JC12066-10P		ABSPCC		8		+	/	/	OK	
	150835	OP9044-mb1	92441	WCCC	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	ABS625	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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7.7.14

7

SGS ACCUTEST JC19473

SGS ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID EF6603

Date: 5/5/16

Print Analyst Name: Linsey K

Analyst Signature: LK

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See pg 37	

Columns: 25-5ms @ 3mx.25mmx.25u

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

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	OP93031-bs	13931-1	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 OP93031 10 11-5-16
	156850	JC19528-1		ABPL-1AP54		24			/	/	OK	
	156851	JC19530-1		AB625		25			/	/	OK	
	156852	-6				26			/	/	OK	
	156853	OP93031-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

Columns: Rx:-5si ms 30m x .25mm x .25um

Method 8270 D/625 85

Initial Cal. Method MZ5446 SD (2) 4/13/16

Injection Volume: 1 ul

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)	—

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 JC19473

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	TCL5485-50		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	TCL5486-50		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

SGS ACCUTEST JC19473

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
1516271097F	BNA	25ppm
[illegible]	TCLP	↓
[illegible]	Int. Std.	40ppm
1624147	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: [signature] 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 Ac 5/5/16 BNA 100ppm	93597	ABC708	S	5		✓	✓	✓	OK	
R	110387	JC19588-1	93627	BRAH + 2NWAP	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		ABCL20		9	20		✓	✓	OK	
R	110391	ZZA Ex				10	20				not using	reporting from original run
	110392	JC19505-1	93598	ABCL20+	S	11		✓	✓	✓	OK	re 5/5/16 [illegible] RR CF:
	110393	2				12		✓	✓		OK	
	110394	JC19509-3				13		✓	✓		OK	
	110395	JC19477-1		ABCL + 10 ACID ABC2 + BNZYL ALC		14			✓	✓	OK	
	110396	JC19485-10		BRAH		15			✓	✓	OK	
	110397	JC19414-2	93597	BRAH	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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EZ5515

Print Analyst Name: Arielle Cocozza

Analyst Signature:

Date: 5/5/16

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 Remaked/reg. pt.
	110407	JC19505-1	93598	ABSCL29	S	11			/	/	OK	CFD 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

125

7.7.17

7

G-1974

LOGBOOK ID:

ABN Aqueous Extraction Logbook

Date Started: 05-03-16 Time Started: 9:00 AM
Date Finished: 05-03-16 Time Finished: 1:10 pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

A-3

BATCH # MS 93555	RACK# ~~A-33~~ 4A
Extracted by:	~~BOS~~, EIC, YB
Concentrated by:	M.P
Vialed by:	ENC NL
Relinquished by:	
Accepted by:	
Supervisor Review:	M.P 5/3/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) <2 H2SO4	pH Adjust(mL) >11 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		
JC19295-1 MS		2	Yellow	500	1	4	YELLOW	1		
↓ MSD		2	Yellow	500	1	4	YELLOW	1		
JC19332-3 BS	2 SIM		DI H2O	1000	1	4	LT YELLOW	1		
↓ MS		1	Yellow	1000	1	4	LT YELLOW	1		
MSD		2	Yellow	990	1	4	LT YELLOW	1		
1 JC19418-1	ABN	2	LT YELLOW	1000	1	4	LT YELLOW	1		
2 -2		2	LT BROWN	1000	1	4	LT YELLOW	1		A
3 JC19291-1		2	Yellow	940	1	4	LT YELLOW	1		
4 -2		1	Yellow	1000	1	4	LT YELLOW	1		
5 -3		2	Yellow	930	1	4	LT YELLOW	1		
6 -4		1	Yellow	1000	1	4	LT YELLOW	1		
7 -5		2	Clear	1000	1	4	CLEAR	1		
8 JC19295-1		1	Yellow	950	1	4	CLEAR	1		
9 -2		1	Yellow	1000	1	4	YELLOW	1		
10 -3		2	LT Brown	980	1	4	LT Brown	1		
11 ~~-4~~										
12 -5		2	Peach	980	1	4	LT YELLOW	1		
13 JC19313-1		1	Peach	1000	1	4	LT YELLOW	1		
14 -2		1	LT YELLOW	1000	1	4	LT YELLOW	1		
15 JC19332-3		3	Yellow	1000	1	4	CLEAR	1		
16 -4		3	LT YELLOW	1000	1	4	BROWN	1		
17 -5		1	LT YELLOW	990	1	4	BROWN	1		
18 JC19473-1		2	Clear	900	1	4	CLEAR	1		
19 -2		1	Clear	900	1	4	CLEAR	1		
20										

2d TAT

Voa only

1d TAT

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

Comments: Okay to split MS/MSD, not enough bottles
JC 19295-6 No extraction bottle available
A) JC19418-2 Sample very viscous w/ a lot of sediment.

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	75.76	0.5.04	76.76	N/A
Waterbath Chiller (GPM)	F2	0	-	-	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16171278	50ppm	1mL

WITNESS SIGN: YB SPIKE SIGN: NG

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193516	50	Acid: 1
Acid (for SIM)			A(SIM): 01
Base #1	16193517	50	1
Base #2	16193510	50	1
Anilines	15182715	50	1
BSIM	16171266	1	1

WITNESS SIGN: YB SPIKE SIGN: NG

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162641	Fisher	60mL x 6

REAGENT	LOT #	BRAND
NaOH	153803	Fisher
H2SO4	2061910	Veca
Sodium Sulfate	151477	Fisher
Glass Wool	02Q05-2	Lab
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

ACCUTEST LABORATORIES

Metals Digestion Reagents Information Log

Digestion Batch ID: MP 93555 **Date:** 5/6/16

Matrix: ALL

Standard/Reagent Type	Exp. Date	Standard/Reagent ID
Spiking Solution - (ACC-13)		MP - - ACC-13
Spiking Solution - (ACC-14) (5000 mg/l Metals Mix)		MP - - ACC-14
Spiking Solution - Min. Spike Cal-1 6020		Lot #: Mfg.
Spiking Solution - Other Se 20ppm	8/11/2017	Lot #: MEB598085 Mfg. INO. VENT.
Spiking Solution - Other Min 200ppm	5/15/2016	MA-15-226-34
Spiking Solution - Other	6/22/2016	MA-15-226-90
Nitric Acid		Lot #: Mfg.
Nitric Acid (1:1)	10/22/2016	MP - 013 - 20 - 557 -Hno3 (1:1)
Hydrochloric Acid		Lot #: Mfg.
Hydrochloric Acid (1:1)	11/2/2016	MP - 013 - 20 - 561 -HCl (1:1)
Hydrogen Peroxide	4/21/2018	Lot #: 156367 Mfg. Fisher Scientific
Soil Lab Control/Soil LC		Lot #: Mfg.
Teflon Chips(For Soil MB and Blank Spike)	N/A	Lot #: Mfg.
Digestion Tubes	N/A	Lot #: 1509104 Mfg. Env. Express
pH Paper	6/15/2018	Lot #: 216315 Mfg. Hydrion
Filter paper	N/A	Lot #: 96181321 Mfg. Fisher Scientific
ODD spiking solution 20ppm	6/22/2016	MA-15-226-70

Form: AA014-04
Rev. Date: 12/30/14

7.8.1

7

G-1974

LOGBOOK ID:

ABN Aqueous Extraction Logbook

Date Started: 05-03-16 Time Started: 9:00 AM
Date Finished: 05-03-16 Time Finished: 1:10 pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other

A-3

BATCH # MS 93555	RACK# ~~A-33~~ 4A
Extracted by:	~~BOS~~, EIC, YB
Concentrated by:	M.P
Vialed by:	EIC NL
Relinquished by:	
Accepted by:	
Supervisor Review:	M.P 5/3/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

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	75.76	0.5,0.4	76.76	N/A
Waterbath Chiller (GPM)	F2	0	-	-	2
NEVAP (32-38°C; LPM)					

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) <2 H2SO4	pH Adjust(mL) >11 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		
JC19295-1 MS		2	Yellow	500	1	4	YELLOW	1		
MSD		2	Yellow	500	1	4	YELLOW	1		
JC19332-3 BS	2 SIM		DI H2O	1000	1	4	LT YELLOW	1		
MS		1	Yellow	1000	1	4	LT YELLOW	1		
MSD		2	Yellow	990	1	4	LT YELLOW	1		
1 JC19418-1	ABN	2	LT YELLOW	1000	1	4	LT YELLOW	1		
2 -2		2	LT BROWN	1000	1	4	LT YELLOW	1		A
3 JC19291-1		2	L. Yellow	940	1	4	LT YELLOW	1		
4 -2		1	L. Yellow	1000	1	4	LT YELLOW	1		
5 -3		2	Yellow	930	1	4	LT YELLOW	1		
6 -4		1	L. Yellow	1000	1	4	LT YELLOW	1		
7 -5		2	Clear	1000	1	4	CLEAR	1		
8 JC19295-1		1	Yellow	950	1	4	CLEAR	1		
9 -2		1	Yellow	1000	1	4	YELLOW	1		
10 -3		2	LT Brown	980	1	4	LT BROWN	1		
11 ~~-4~~										
12 -5		2	Peach	980	1	4	LT YELLOW	1		
13 JC19313-1		1	Peach	1000	1	4	LT YELLOW	1		
14 -2		1	LT YELLOW	1000	1	4	LT YELLOW	1		
15 JC19332-3		3	Yellow	1000	1	4	CLEAR	1		
16 -4		3	LT YELLOW	1000	1	4	BROWN	1		
17 -5		1	LT YELLOW	990	1	4	BROWN	1		
18 JC19473-1		2	Clear	900	1	4	CLEAR	1		
19 -2		1	Clear	900	1	4	CLEAR	1		
20										

2d TAT

VOA only

1d TAT

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16171278	50ppm	1mL

WITNESS SIGN: YB SPIKE SIGN: NG

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193516	50	Acid: 1
Acid (for SIM)			A(SIM): 01
Base #1	16193517	50	1
Base #2	16193510	50	1
Anilines	15182715	50	1
BSIM	16171266	1	1

WITNESS SIGN: YB SPIKE SIGN: NG

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162641	Fisher	60mL x 6

REAGENT	LOT #	BRAND
NaOH	153803	Fisher
H2SO4	2061910	Veca
Sodium Sulfate	151477	Fisher
Glass Wool	02Q05-2	Lab
Filter Paper		
pH strips		

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

Comments: Okay to split MS/MSD, not enough bottles

JC 19295-6 No extraction bottle available

A) JC19418-2 Sample very viscous w/ a lot of sediment.

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

ACCUTEST LABORATORIES

Metals Digestion Reagents Information Log

Digestion Batch ID: MP 93555 **Date:** 5/6/16

Matrix: ALL

Standard/Reagent Type	Exp. Date	Standard/Reagent ID
Spiking Solution - (ACC-13)		MP - - ACC-13
Spiking Solution - (ACC-14) (5000 mg/l Metals Mix)		MP - - ACC-14
Spiking Solution - Min. Spike Cal-1 6020		Lot #: Mfg.
Spiking Solution - Other Se 20ppm	8/11/2017	Lot #: MEB598085 Mfg. INO. VENT.
Spiking Solution - Other Min 200ppm	5/15/2016	MA-15-226-34
Spiking Solution - Other	6/22/2016	MA-15-226-90
Nitric Acid		Lot #: Mfg.
Nitric Acid (1:1)	10/22/2016	MP - 013 - 20 - 557 -Hno3 (1:1)
Hydrochloric Acid		Lot #: Mfg.
Hydrochloric Acid (1:1)	11/2/2016	MP - 013 - 20 - 561 -HCl (1:1)
Hydrogen Peroxide	4/21/2018	Lot #: 156367 Mfg. Fisher Scientific
Soil Lab Control/Soil LC		Lot #: Mfg.
Teflon Chips(For Soil MB and Blank Spike)	N/A	Lot #: Mfg.
Digestion Tubes	N/A	Lot #: 1509104 Mfg. Env. Express
pH Paper	6/15/2018	Lot #: 216315 Mfg. Hydrion
Filter paper	N/A	Lot #: 96181321 Mfg. Fisher Scientific
ODD spiking solution 20ppm	6/22/2016	MA-15-226-70

Form: AA014-04
Rev. Date: 12/30/14

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 1251M			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	~~JC19473-9P~~											
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:

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

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other: please update 'a' batch too!

SGS ACCUTEST INC.
Form: OP019A-06
Rev Date: 11/20/15

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[redacted]

LOGBOOK ID:

ABN Extraction Log - Solids

6-1743

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: AQ FN
Concentrated by: AQ FN
Vialed by: AQ
Relinquished by: AQ
Accepted by:
Supervisor Review: 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 1251M			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:

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	OP161712 92	50	1

WITNESS SIGN: 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	OP161712 66	1	1

WITNESS SIGN: 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	6GA160113 11A	FISHER

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other: please update 'a' batch too!

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93571-MB1	6G34621.D	1	05/03/16	DS	05/03/16	OP93571	G6G1001

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19473-1, JC19473-2

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	84%	26-132%
877-09-8	Tetrachloro-m-xylene	83%	26-132%
2051-24-3	Decachlorobiphenyl	76%	10-118%
2051-24-3	Decachlorobiphenyl	83%	10-118%

Method Blank Summary

Job Number: JC19473
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

JC19473-3

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93571-BS1	6G34622.D	1	05/03/16	DS	05/03/16	OP93571	G6G1001

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19473-1, JC19473-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.167	0.14	84	38-138
319-84-6	alpha-BHC	0.167	0.15	90	51-144
319-85-7	beta-BHC	0.167	0.14	84	55-137
319-86-8	delta-BHC	0.167	0.15	90	33-148
58-89-9	gamma-BHC (Lindane)	0.167	0.15	90	53-142
5103-71-9	alpha-Chlordane	0.167	0.15	90	52-137
5103-74-2	gamma-Chlordane	0.167	0.15	90	52-140
60-57-1	Dieldrin	0.167	0.15	90	54-144
72-54-8	4,4'-DDD	0.167	0.15	90	46-151
72-55-9	4,4'-DDE	0.167	0.15	90	51-142
50-29-3	4,4'-DDT	0.167	0.15	90	53-158
72-20-8	Endrin	0.167	0.16	96	53-149
1031-07-8	Endosulfan sulfate	0.167	0.16	96	49-148
7421-93-4	Endrin aldehyde	0.167	0.15	90	45-137
53494-70-5	Endrin ketone	0.167	0.16	96	48-142
959-98-8	Endosulfan-I	0.167	0.15	90	54-139
33213-65-9	Endosulfan-II	0.167	0.15	90	54-142
76-44-8	Heptachlor	0.167	0.14	84	45-137
1024-57-3	Heptachlor epoxide	0.167	0.15	90	54-140
72-43-5	Methoxychlor	0.167	0.16	96	51-157

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	81%	26-132%
877-09-8	Tetrachloro-m-xylene	80%	26-132%
2051-24-3	Decachlorobiphenyl	85%	10-118%
2051-24-3	Decachlorobiphenyl	93%	10-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19473
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

JC19473-3

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93571-MS	6G34665.D	1	05/04/16	DS	05/03/16	OP93571	G6G1001
OP93571-MSD	6G34666.D	1	05/04/16	DS	05/03/16	OP93571	G6G1001
JC19409-1	6G34667.D	1	05/04/16	DS	05/03/16	OP93571	G6G1001

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19473-1, JC19473-2

CAS No.	Compound	JC19409-1 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		0.333	0.30	90	0.333	0.39	117	26	37-159/40
319-84-6	alpha-BHC	ND		0.333	0.33	99	0.333	0.43	129	26	37-164/37
319-85-7	beta-BHC	ND		0.333	0.33	99	0.333	0.41	123	22	46-151/36
319-86-8	delta-BHC	ND		0.333	0.35	105	0.333	0.46	138	27	32-168/36
58-89-9	gamma-BHC (Lindane)	ND		0.333	0.35	105	0.333	0.45	135	25	44-160/37
5103-71-9	alpha-Chlordane	ND		0.333	0.33	99	0.333	0.41	123	22	38-160/35
5103-74-2	gamma-Chlordane	ND		0.333	0.33	99	0.333	0.43	129	26	39-157/37
60-57-1	Dieldrin	ND		0.333	0.34	102	0.333	0.43	129	23	42-161/36
72-54-8	4,4'-DDD	ND		0.333	0.37	111	0.333	0.47	141	24	40-161/36
72-55-9	4,4'-DDE	ND		0.333	0.31	93	0.333	0.41	123	28	34-158/36
50-29-3	4,4'-DDT	ND		0.333	0.27	81	0.333	0.36	108	29	41-173/33
72-20-8	Endrin	ND		0.333	0.37	111	0.333	0.45	135	20	44-166/35
1031-07-8	Endosulfan sulfate	ND		0.333	0.37	111	0.333	0.47	141	24	46-161/36
7421-93-4	Endrin aldehyde	ND		0.333	0.071	21* [a]	0.333	0.099	30* [a]	33	34-149/36
53494-70-5	Endrin ketone	ND		0.333	0.38	114	0.333	0.48	144	23	44-157/36
959-98-8	Endosulfan-I	ND		0.333	0.33	99	0.333	0.41	123	22	43-154/35
33213-65-9	Endosulfan-II	ND		0.333	0.35	105	0.333	0.44	132	23	40-162/35
76-44-8	Heptachlor	ND		0.333	0.29	87	0.333	0.37	111	24	33-153/37
1024-57-3	Heptachlor epoxide	ND		0.333	0.34	102	0.333	0.42	126	21	45-154/37
72-43-5	Methoxychlor	ND		0.333	0.32	96	0.333	0.41	123	25	48-169/32
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC19409-1	Limits
877-09-8	Tetrachloro-m-xylene	76%	98%	80%	26-132%
877-09-8	Tetrachloro-m-xylene	79%	100%	85%	26-132%
2051-24-3	Decachlorobiphenyl	103%	128%* [a]	108%	10-118%
2051-24-3	Decachlorobiphenyl	107%	127%* [a]	105%	10-118%

(a) Outside the QC limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19473
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

JC19473-3

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: JC19473
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: JC19473
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
ZZZZZZ	394965601	2.07	374525232	1.79
ZZZZZZ	347066384	2.07	338267177	1.78
ZZZZZZ	428193682	2.07	419293819	1.80
JC19473-3	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.

Semivolatile Internal Standard Area Summary

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1001-CC987	**Injection Date:**	05/03/16
Lab File ID:	6G34616.D	**Injection Time:**	10:24
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	51115650	1.57	142501680	1.30
Upper Limit [a]	102231300	2.07	285003360	1.80
Lower Limit [b]	25557825	1.07	71250840	0.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP93556-MB1	49618684	1.57	138436114	1.30
OP93556-BS1	52046099	1.57	147529061	1.30
ZZZZZZ	51688354	1.57	146618940	1.31
OP93571-MB1	50783268	1.57	144886517	1.30
OP93571-BS1	55547175	1.57	162005709	1.30
ZZZZZZ	56018165	1.57	160003716	1.30
ZZZZZZ	50751621	1.57	144481676	1.30
ZZZZZZ	55983056	1.57	160136688	1.30
ZZZZZZ	58390704	1.57	161965436	1.30
ZZZZZZ	56351884	1.57	166854044	1.30
JC19343-1	52871138	1.57	153696438	1.30
OP93532-MS	55033436	1.57	157181755	1.30
OP93532-MSD	56941764	1.57	161702077	1.30

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1001-CC987	**Injection Date:**	05/03/16
Lab File ID:	6G34638.D	**Injection Time:**	17:54
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	47649096	1.57	133058613	1.30
Upper Limit [a]	95298192	2.07	266117226	1.80
Lower Limit [b]	23824548	1.07	66529307	0.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
ZZZZZZ	52567159	1.57	149717939	1.30
ZZZZZZ	52685371	1.57	147296792	1.30
JC19473-1	54297608	1.57	155876056	1.30
JC19473-2	53244030	1.57	152280764	1.30
JC19372-1	56969081	1.57	153218284	1.30
OP93556-MS	59066757	1.57	172747133	1.30
OP93556-MSD	56304920	1.57	155952513	1.30
ZZZZZZ	55817874	1.57	154998269	1.30
ZZZZZZ	54043596	1.57	156693644	1.30
ZZZZZZ	52488540	1.57	148514789	1.30
ZZZZZZ	51055828	1.57	145703822	1.30
ZZZZZZ	56479745	1.57	160976314	1.30
ZZZZZZ	44775857	1.57	112271925	1.30
ZZZZZZ	51332864	1.57	148447009	1.30
ZZZZZZ	52027270	1.57	153191029	1.30
ZZZZZZ	51489084	1.57	148354066	1.30
ZZZZZZ	51401371	1.57	145508592	1.30

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1001-CC987	**Injection Date:**	05/03/16
Lab File ID:	6G34659.D	**Injection Time:**	23:39
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	54277237	1.57	152833430	1.30
Upper Limit [a]	108554474	2.07	305666860	1.80
Lower Limit [b]	27138619	1.07	76416715	0.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP93571-MS	59725646	1.57	161558735	1.30
OP93571-MSD	52527659	1.57	139824474	1.30
JC19409-1	55002554	1.57	142051429	1.30
ZZZZZZ	55712877	1.57	159418520	1.30
ZZZZZZ	57207466	1.57	170427425	1.30
ZZZZZZ	50281429	1.57	140964126	1.30

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: JC19473
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: JC19473
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 JC19473)
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 JC19473)
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 JC19473)

DDT/Endrin Breakdown Check

Job Number: JC19473
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 JC19473)
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: JC19473
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)
ZZZZZZ	4G68004.D	05/06/16	22:47	08:05	(unrelated sample)
ZZZZZZ	4G68005.D	05/06/16	23:02	08:20	(unrelated sample)
ZZZZZZ	4G68006.D	05/06/16	23:17	08:35	(unrelated sample)
JC19473-3	4G68007.D	05/06/16	23:32	08:50	RA-18 (12.5-13.5)
ZZZZZZ	4G68008.D	05/06/16	23:47	09:05	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G6G987-DDT
Lab File ID: 6G34128.D
Instrument ID: GC6G
Injection Date: 04/14/16
Injection Time: 15:16

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1311683	538829
4,4'-DDE	1018177	323855
4,4'-DDT	241695475	69919881
DDT Breakdown [a]	1 %	1.2 %
Endrin aldehyde	837149	354536
Endrin ketone	4035110	1631820
Endrin	120930300	37292116
Endrin Breakdown [b]	3.9 %	5.1 %

(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
G6G987-IC987	6G34130.D	04/14/16	15:49	00:33	Initial cal 1
G6G987-IC987	6G34131.D	04/14/16	16:05	00:49	Initial cal 2
G6G987-IC987	6G34132.D	04/14/16	16:22	01:06	Initial cal 5
G6G987-IC987	6G34133.D	04/14/16	16:38	01:22	Initial cal 10
G6G987-ICC987	6G34134.D	04/14/16	16:55	01:39	Initial cal 25
G6G987-IC987	6G34135.D	04/14/16	17:11	01:55	Initial cal 50
G6G987-IC987	6G34136.D	04/14/16	17:27	02:11	Initial cal 75
G6G987-IC987	6G34137.D	04/14/16	17:44	02:28	Initial cal 100
G6G987-IC987	6G34138.D	04/14/16	18:00	02:44	Initial cal 500
G6G987-IC987	6G34139.D	04/14/16	18:17	03:01	Initial cal 500
G6G987-ICV987	6G34140.D	04/14/16	18:33	03:17	Initial cal verification 25
G6G987-ICV987	6G34141.D	04/14/16	18:49	03:33	Initial cal verification 25
G6G987-ICV987	6G34142.D	04/14/16	19:06	03:50	Initial cal verification 500
G6G987-ICV987	6G34143.D	04/14/16	19:22	04:06	Initial cal verification 500
G6G988-CC987	6G34144.D	04/14/16	19:39	04:23	Continuing cal 25
OP93053-MB1	6G34149.D	04/14/16	20:12	04:56	Method Blank
OP93053-BS1	6G34150.D	04/14/16	20:28	05:12	Blank Spike
ZZZZZZ	6G34148.D	04/14/16	21:17	06:01	(unrelated sample)
JC18127-1	6G34151.D	04/14/16	21:34	06:18	(used for QC only; not part of job JC19473)
OP93053-MS	6G34152.D	04/14/16	21:50	06:34	Matrix Spike
OP93053-MSD	6G34153.D	04/14/16	22:06	06:50	Matrix Spike Duplicate
ZZZZZZ	6G34154.D	04/14/16	22:23	07:07	(unrelated sample)
ZZZZZZ	6G34155.D	04/14/16	22:39	07:23	(unrelated sample)
ZZZZZZ	6G34156.D	04/14/16	22:56	07:40	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G6G987-DDT	**Injection Date:**	04/14/16
Lab File ID:	6G34128.D	**Injection Time:**	15:16
Instrument ID:	GC6G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6G34157.D	04/14/16	23:12	07:56	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G6G1001-DDT	**Injection Date:**	05/03/16
Lab File ID:	6G34615.D	**Injection Time:**	10:08
Instrument ID:	GC6G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2275733	1176947
4,4'-DDE	1027308	387254
4,4'-DDT	254788057	80225931
DDT Breakdown [a]	1.3 %	1.9 %
Endrin aldehyde	1023021	386060
Endrin ketone	5293813	2272791
Endrin	134367749	45557162
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
G6G1001-CC987	6G34616.D	05/03/16	10:24	00:16	Continuing cal 50
OP93556-MB1	6G34618.D	05/03/16	10:57	00:49	Method Blank
OP93556-BS1	6G34619.D	05/03/16	11:13	01:05	Blank Spike
ZZZZZZ	6G34620.D	05/03/16	11:48	01:40	(unrelated sample)
OP93571-MB1	6G34621.D	05/03/16	12:16	02:08	Method Blank
OP93571-BS1	6G34622.D	05/03/16	12:32	02:24	Blank Spike
ZZZZZZ	6G34626.D	05/03/16	13:38	03:30	(unrelated sample)
ZZZZZZ	6G34627.D	05/03/16	13:54	03:46	(unrelated sample)
ZZZZZZ	6G34629.D	05/03/16	14:27	04:19	(unrelated sample)
ZZZZZZ	6G34630.D	05/03/16	14:43	04:35	(unrelated sample)
ZZZZZZ	6G34631.D	05/03/16	15:00	04:52	(unrelated sample)
JC19343-1	6G34634.D	05/03/16	15:49	05:41	(used for QC only; not part of job JC19473)
OP93532-MS	6G34635.D	05/03/16	16:05	05:57	Matrix Spike
OP93532-MSD	6G34636.D	05/03/16	16:22	06:14	Matrix Spike Duplicate

DDT/Endrin Breakdown Check

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G6G1001-DDT	**Injection Date:**	05/03/16
Lab File ID:	6G34637.D	**Injection Time:**	17:38
Instrument ID:	GC6G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1783683	1213330
4,4'-DDE	1003561	439515
4,4'-DDT	294321997	89543696
DDT Breakdown [a]	0.9 %	1.8 %
Endrin aldehyde	1287183	523158
Endrin ketone	6522046	2649639
Endrin	149456904	49677688
Endrin Breakdown [b]	5 %	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
G6G1001-CC987	6G34638.D	05/03/16	17:54	00:16	Continuing cal 25
ZZZZZZ	6G34640.D	05/03/16	18:27	00:49	(unrelated sample)
ZZZZZZ	6G34641.D	05/03/16	18:44	01:06	(unrelated sample)
JC19473-1	6G34643.D	05/03/16	19:16	01:38	BPEB-10
JC19473-2	6G34644.D	05/03/16	19:33	01:55	RA-18 GWS
JC19372-1	6G34645.D	05/03/16	19:49	02:11	(used for QC only; not part of job JC19473)
OP93556-MS	6G34646.D	05/03/16	20:06	02:28	Matrix Spike
OP93556-MSD	6G34647.D	05/03/16	20:22	02:44	Matrix Spike Duplicate
ZZZZZZ	6G34648.D	05/03/16	20:38	03:00	(unrelated sample)
ZZZZZZ	6G34649.D	05/03/16	20:55	03:17	(unrelated sample)
ZZZZZZ	6G34650.D	05/03/16	21:11	03:33	(unrelated sample)
ZZZZZZ	6G34651.D	05/03/16	21:28	03:50	(unrelated sample)
ZZZZZZ	6G34652.D	05/03/16	21:44	04:06	(unrelated sample)
ZZZZZZ	6G34653.D	05/03/16	22:01	04:23	(unrelated sample)
ZZZZZZ	6G34654.D	05/03/16	22:17	04:39	(unrelated sample)
ZZZZZZ	6G34655.D	05/03/16	22:34	04:56	(unrelated sample)
ZZZZZZ	6G34657.D	05/03/16	23:07	05:29	(unrelated sample)
ZZZZZZ	6G34658.D	05/03/16	23:23	05:45	(unrelated sample)
G6G1001-CC987	6G34659.D	05/03/16	23:39	06:01	Continuing cal 50
OP93571-MS	6G34665.D	05/04/16	00:45	07:07	Matrix Spike
OP93571-MSD	6G34666.D	05/04/16	01:01	07:23	Matrix Spike Duplicate
JC19409-1	6G34667.D	05/04/16	01:18	07:40	(used for QC only; not part of job JC19473)
ZZZZZZ	6G34668.D	05/04/16	01:34	07:56	(unrelated sample)
ZZZZZZ	6G34661.D	05/04/16	01:50	08:12	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G6G1001-DDT	**Injection Date:**	05/03/16
Lab File ID:	6G34637.D	**Injection Time:**	17:38
Instrument ID:	GC6G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6G34662.D	05/04/16	02:07	08:29	(unrelated sample)

GC Identification Summary

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1001-CC987	**Injection Date:**	05/03/16
Lab File ID:	6G34616.D	**Injection Time:**	10:24
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP93571-BS1	**Injection Date:**	05/03/16
Lab File ID:	6G34622.D	**Injection Time:**	12:32
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	3.68	3.68	0.14		ug/l	0.0
Aldrin	2 [a]	4.70	4.70	0.14		ug/l	
alpha-BHC	1	2.49	2.49	0.15		ug/l	0.0
alpha-BHC	2 [a]	3.17	3.17	0.15		ug/l	
beta-BHC	1	2.88	2.88	0.15		ug/l	6.9
beta-BHC	2 [a]	3.71	3.71	0.14		ug/l	
delta-BHC	1	3.08	3.08	0.15		ug/l	0.0
delta-BHC	2 [a]	4.13	4.13	0.15		ug/l	
gamma-BHC (Lindane)	1	2.80	2.81	0.15		ug/l	0.0
gamma-BHC (Lindane)	2 [a]	3.62	3.62	0.15		ug/l	
alpha-Chlordane	1	4.79	4.79	0.15		ug/l	0.0
alpha-Chlordane	2 [a]	6.13	6.13	0.15		ug/l	
gamma-Chlordane	1	4.61	4.61	0.15		ug/l	0.0
gamma-Chlordane	2 [a]	5.89	5.89	0.15		ug/l	
Dieldrin	1	5.31	5.31	0.15		ug/l	0.0
Dieldrin	2 [a]	6.70	6.70	0.15		ug/l	
4,4'-DDD	1 [a]	5.80	5.80	0.15		ug/l	0.0
4,4'-DDD	2	7.46	7.46	0.15		ug/l	
4,4'-DDE	1 [a]	4.92	4.92	0.15		ug/l	0.0
4,4'-DDE	2	6.43	6.43	0.15		ug/l	
4,4'-DDT	1 [a]	6.26	6.25	0.15		ug/l	6.5
4,4'-DDT	2	8.04	8.04	0.16		ug/l	
Endrin	1	5.65	5.65	0.16		ug/l	0.0
Endrin	2 [a]	7.24	7.24	0.16		ug/l	
Endosulfan sulfate	1	7.40	7.40	0.16		ug/l	0.0
Endosulfan sulfate	2 [a]	8.77	8.77	0.16		ug/l	
Endrin aldehyde	1	6.66	6.67	0.17		ug/l	12.5
Endrin aldehyde	2 [a]	8.25	8.25	0.15		ug/l	
Endrin ketone	1	7.88	7.87	0.16		ug/l	0.0
Endrin ketone	2 [a]	9.82	9.82	0.16		ug/l	
Endosulfan-I	1	4.97	4.97	0.15		ug/l	0.0
Endosulfan-I	2 [a]	6.23	6.23	0.15		ug/l	
Endosulfan-II	1 [a]	5.99	5.99	0.15		ug/l	0.0
Endosulfan-II	2	7.63	7.63	0.15		ug/l	
Heptachlor	1	3.33	3.33	0.15		ug/l	6.9
Heptachlor	2 [a]	4.23	4.23	0.14		ug/l	
Heptachlor epoxide	1	4.43	4.43	0.15		ug/l	0.0
Heptachlor epoxide	2 [a]	5.58	5.58	0.15		ug/l	
Methoxychlor	1 [a]	7.12	7.12	0.16		ug/l	0.0
Methoxychlor	2	9.42	9.42	0.16		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19473
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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1001-CC987	**Injection Date:**	05/03/16
Lab File ID:	6G34659.D	**Injection Time:**	23:39
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP93571-MS	**Injection Date:**	05/04/16
Lab File ID:	6G34665.D	**Injection Time:**	00:45
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.68	3.68	0.30		ug/l	6.9
Aldrin	2	4.70	4.70	0.28		ug/l	
alpha-BHC	1 [a]	2.49	2.49	0.33		ug/l	6.3
alpha-BHC	2	3.17	3.17	0.31		ug/l	
beta-BHC	1 [a]	2.89	2.89	0.33		ug/l	9.5
beta-BHC	2	3.71	3.71	0.30		ug/l	
delta-BHC	1 [a]	3.08	3.08	0.35		ug/l	9.0
delta-BHC	2	4.13	4.13	0.32		ug/l	
gamma-BHC (Lindane)	1 [a]	2.81	2.81	0.35		ug/l	15.4
gamma-BHC (Lindane)	2	3.62	3.62	0.30		ug/l	
alpha-Chlordane	1 [a]	4.79	4.79	0.33		ug/l	9.5
alpha-Chlordane	2	6.13	6.13	0.30		ug/l	
gamma-Chlordane	1 [a]	4.61	4.61	0.33		ug/l	6.3
gamma-Chlordane	2	5.89	5.89	0.31		ug/l	
Dieldrin	1 [a]	5.31	5.31	0.34		ug/l	9.2
Dieldrin	2	6.70	6.70	0.31		ug/l	
4,4'-DDD	1 [a]	5.80	5.80	0.37		ug/l	8.5
4,4'-DDD	2	7.46	7.46	0.34		ug/l	
4,4'-DDE	1 [a]	4.92	4.92	0.31		ug/l	13.8
4,4'-DDE	2	6.43	6.43	0.27		ug/l	
4,4'-DDT	1 [a]	6.25	6.25	0.27		ug/l	3.8
4,4'-DDT	2	8.04	8.04	0.26		ug/l	
Endrin	1 [a]	5.65	5.65	0.37		ug/l	14.5
Endrin	2	7.24	7.24	0.32		ug/l	
Endosulfan sulfate	1 [a]	7.40	7.40	0.37		ug/l	8.5
Endosulfan sulfate	2	8.77	8.77	0.34		ug/l	
Endrin aldehyde	1 [a]	6.66	6.66	0.071		ug/l	1.4
Endrin aldehyde	2	8.25	8.25	0.070		ug/l	
Endrin ketone	1 [a]	7.87	7.88	0.38		ug/l	11.1
Endrin ketone	2	9.82	9.82	0.34		ug/l	
Endosulfan-I	1 [a]	4.97	4.97	0.33		ug/l	9.5
Endosulfan-I	2	6.23	6.23	0.30		ug/l	
Endosulfan-II	1 [a]	6.00	5.99	0.35		ug/l	5.9
Endosulfan-II	2	7.62	7.63	0.33		ug/l	
Heptachlor	1 [a]	3.33	3.33	0.29		ug/l	10.9
Heptachlor	2	4.23	4.23	0.26		ug/l	
Heptachlor epoxide	1 [a]	4.43	4.43	0.34		ug/l	9.2
Heptachlor epoxide	2	5.58	5.58	0.31		ug/l	
Methoxychlor	1 [a]	7.12	7.12	0.32		ug/l	6.5
Methoxychlor	2	9.42	9.42	0.30		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19473
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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1001-CC987	**Injection Date:**	05/03/16
Lab File ID:	6G34659.D	**Injection Time:**	23:39
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP93571-MSD	**Injection Date:**	05/04/16
Lab File ID:	6G34666.D	**Injection Time:**	01:01
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.68	3.68	0.39		ug/l	10.8
Aldrin	2	4.70	4.70	0.35		ug/l	
alpha-BHC	1 [a]	2.49	2.49	0.43		ug/l	9.8
alpha-BHC	2	3.17	3.17	0.39		ug/l	
beta-BHC	1 [a]	2.89	2.89	0.41		ug/l	10.3
beta-BHC	2	3.71	3.71	0.37		ug/l	
delta-BHC	1 [a]	3.08	3.08	0.46		ug/l	14.0
delta-BHC	2	4.13	4.13	0.40		ug/l	
gamma-BHC (Lindane)	1 [a]	2.81	2.81	0.45		ug/l	19.5
gamma-BHC (Lindane)	2	3.62	3.62	0.37		ug/l	
alpha-Chlordane	1 [a]	4.79	4.79	0.41		ug/l	10.3
alpha-Chlordane	2	6.13	6.13	0.37		ug/l	
gamma-Chlordane	1 [a]	4.61	4.61	0.43		ug/l	12.3
gamma-Chlordane	2	5.89	5.89	0.38		ug/l	
Dieldrin	1 [a]	5.31	5.31	0.43		ug/l	12.3
Dieldrin	2	6.70	6.70	0.38		ug/l	
4,4'-DDD	1 [a]	5.80	5.80	0.47		ug/l	11.2
4,4'-DDD	2	7.46	7.46	0.42		ug/l	
4,4'-DDE	1 [a]	4.92	4.92	0.41		ug/l	15.8
4,4'-DDE	2	6.43	6.43	0.35		ug/l	
4,4'-DDT	1 [a]	6.25	6.25	0.36		ug/l	5.7
4,4'-DDT	2	8.04	8.04	0.34		ug/l	
Endrin	1 [a]	5.65	5.65	0.45		ug/l	11.8
Endrin	2	7.24	7.24	0.40		ug/l	
Endosulfan sulfate	1 [a]	7.40	7.40	0.47		ug/l	11.2
Endosulfan sulfate	2	8.77	8.77	0.42		ug/l	
Endrin aldehyde	1 [a]	6.66	6.66	0.099		ug/l	8.4
Endrin aldehyde	2	8.25	8.25	0.091		ug/l	
Endrin ketone	1 [a]	7.87	7.88	0.48		ug/l	11.0
Endrin ketone	2	9.82	9.82	0.43		ug/l	
Endosulfan-I	1 [a]	4.97	4.97	0.41		ug/l	10.3
Endosulfan-I	2	6.23	6.23	0.37		ug/l	
Endosulfan-II	1 [a]	6.00	5.99	0.44		ug/l	9.5
Endosulfan-II	2	7.63	7.63	0.40		ug/l	
Heptachlor	1 [a]	3.33	3.33	0.37		ug/l	11.4
Heptachlor	2	4.23	4.23	0.33		ug/l	
Heptachlor epoxide	1 [a]	4.43	4.43	0.42		ug/l	7.4
Heptachlor epoxide	2	5.58	5.58	0.39		ug/l	
Methoxychlor	1 [a]	7.12	7.12	0.41		ug/l	7.6
Methoxychlor	2	9.42	9.42	0.38		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19473
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: JC19473
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]
JC19473-1	6G34643.D	57	58	54	50
JC19473-2	6G34644.D	77	78	103	84
OP93571-BS1	6G34622.D	81	80	85	93
OP93571-MB1	6G34621.D	84	83	76	83
OP93571-MS	6G34665.D	76	79	103	107
OP93571-MSD	6G34666.D	98	100	128* [c]	127* [c]

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) Outside the QC limits.

8.7.1

8

Semivolatile Surrogate Recovery Summary

Job Number: JC19473
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]
JC19473-3	4G68007.D	110	107	139	108
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: JC19473
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: JC19473
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
ZZZZZZ	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
JC19473-3	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

GC Surrogate Retention Time Summary

Job Number: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1001-CC987	**Injection Date:**	05/03/16
Lab File ID:	6G34616.D	**Injection Time:**	10:24
Instrument ID:	GC6G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.98	2.47	9.91	11.75

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP93556-MB1	6G34618.D	05/03/16	10:57	1.98	2.47	9.91	11.75
OP93556-BS1	6G34619.D	05/03/16	11:13	1.98	2.47	9.91	11.75
ZZZZZZ	6G34620.D	05/03/16	11:48	1.98	2.47	9.92	11.76
OP93571-MB1	6G34621.D	05/03/16	12:16	1.98	2.47	9.90	11.75
OP93571-BS1	6G34622.D	05/03/16	12:32	1.98	2.47	9.91	11.75
ZZZZZZ	6G34626.D	05/03/16	13:38	1.98	2.47	9.91	11.75
ZZZZZZ	6G34627.D	05/03/16	13:54	1.98	2.47	9.91	11.75
ZZZZZZ	6G34629.D	05/03/16	14:27	1.98	2.47	9.90	11.75
ZZZZZZ	6G34630.D	05/03/16	14:43	1.98	2.47	9.91	11.75
ZZZZZZ	6G34631.D	05/03/16	15:00	1.98	2.47	9.91	11.75
JC19343-1	6G34634.D	05/03/16	15:49	1.98	2.47	9.90	11.75
OP93532-MS	6G34635.D	05/03/16	16:05	1.98	2.47	9.90	11.75
OP93532-MSD	6G34636.D	05/03/16	16:22	1.98	2.47	9.91	11.75

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1001-CC987	**Injection Date:**	05/03/16
Lab File ID:	6G34638.D	**Injection Time:**	17:54
Instrument ID:	GC6G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.98	2.47	9.91	11.75

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	6G34640.D	05/03/16	18:27	1.98	2.47	9.91	11.75
ZZZZZZ	6G34641.D	05/03/16	18:44	1.98	2.47	9.92	11.74
JC19473-1	6G34643.D	05/03/16	19:16	1.98	2.47	9.91	11.75
JC19473-2	6G34644.D	05/03/16	19:33	1.98	2.47	9.90	11.75
JC19372-1	6G34645.D	05/03/16	19:49	1.98	2.47	9.91	11.75
OP93556-MS	6G34646.D	05/03/16	20:06	1.98	2.47	9.90	11.75
OP93556-MSD	6G34647.D	05/03/16	20:22	1.98	2.47	9.90	11.75
ZZZZZZ	6G34648.D	05/03/16	20:38	1.98	2.47	9.90	11.75
ZZZZZZ	6G34649.D	05/03/16	20:55	1.98	2.47	9.91	11.75
ZZZZZZ	6G34650.D	05/03/16	21:11	1.98	2.47	9.92	11.73
ZZZZZZ	6G34651.D	05/03/16	21:28	1.98	2.47	9.91	11.74
ZZZZZZ	6G34652.D	05/03/16	21:44	1.98	2.47	9.90	11.75
ZZZZZZ	6G34653.D	05/03/16	22:01	1.98	2.47	9.91	11.75
ZZZZZZ	6G34654.D	05/03/16	22:17	1.98	2.47	9.90	11.75
ZZZZZZ	6G34655.D	05/03/16	22:34	1.98	2.47	9.91	11.75
ZZZZZZ	6G34657.D	05/03/16	23:07	1.98	2.47	9.91	11.75
ZZZZZZ	6G34658.D	05/03/16	23:23	1.98	2.47	9.91	11.75

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1001-CC987	**Injection Date:**	05/03/16
Lab File ID:	6G34659.D	**Injection Time:**	23:39
Instrument ID:	GC6G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.98	2.47	9.91	11.75

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP93571-MS	6G34665.D	05/04/16	00:45	1.98	2.47	9.91	11.75
OP93571-MSD	6G34666.D	05/04/16	01:01	1.98	2.47	9.91	11.75
JC19409-1	6G34667.D	05/04/16	01:18	1.98	2.47	9.90	11.74
ZZZZZZ	6G34668.D	05/04/16	01:34	1.98	2.47	9.91	11.74
ZZZZZZ	6G34661.D	05/04/16	01:50	1.98	2.47	9.91	11.74
ZZZZZZ	6G34662.D	05/04/16	02:07	1.98	2.47	9.90	11.74

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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G4G1778-ICC1778
Lab FileID: 4G67836.D

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: JC19473 **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

8.9.1

8

Initial Calibration Verification

Job Number: JC19473 **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: JC19473 **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

8.9.2

8

Initial Calibration Verification

Job Number: JC19473 **Sample:** G4G1778-ICV1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67843.D
Project: BMSMC, Building 5 Area, PR

```
                    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
```

8.9.3

8

Initial Calibration Verification

Job Number: JC19473 **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

Initial Calibration Verification

Job Number: JC19473 **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: JC19473 **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: JC19473 **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

8.9.6

Continuing Calibration Summary

Job Number: JC19473 **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----------				

Continuing Calibration Summary

Job Number: JC19473 **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

8.9.7

8

Continuing Calibration Summary

Job Number: JC19473 **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: JC19473 **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

8.9.8

Continuing Calibration Summary

Job Number: JC19473 **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: JC19473 **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

8.9.9

Initial Calibration Summary

Job Number: JC19473 **Sample:** G6G987-ICC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34134.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report HP G1530A

Method : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration

Calibration Files
2 =6g34131.D 5 =6g34132.D 10 =6g34133.D 25 =6g34134.D
50 =6g34135.D 100 =6g34137.D 1 =6g34130.D 75 =6g34136.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.920	0.893	0.885	0.883	0.900	0.945	0.988	0.918	0.916	3.88
3) alpha-BHC	1.041	1.037	1.096	1.173	1.280	1.407	1.071	1.346	1.181	12.28
4) gamma-BHC	1.002	0.996	1.038	1.090	1.166	1.262	1.029	1.217	1.100	9.33
5) Heptachlor	1.052	1.032	1.055	1.077	1.131	1.203	1.115	1.169	1.104	5.51
6) beta-BHC	0.555	0.546	0.532	0.528	0.532	0.540	0.550	0.535	0.540	1.79
7) delta-BHC	0.896	0.903	0.936	1.033	1.124	1.196	0.966	1.148	1.025	11.50
8) Aldrin	0.952	0.928	0.961	0.994	1.057	1.137	1.025	1.103	1.020	7.35
9) Heptachlor E	0.922	0.908	0.919	0.932	0.970	1.018	0.971	0.997	0.955	4.20
10) gamma-Chlord	0.914	0.896	0.917	0.938	0.983	1.040	0.985	1.015	0.961	5.43
11) alpha-Chlord	0.920	0.898	0.915	0.931	0.965	1.015	0.991	0.993	0.954	4.55
12) Endosulfan I	0.926	0.877	0.890	0.913	0.948	1.002	0.991	0.984	0.941	5.04
13) 4,4'-DDE	0.732	0.713	0.722	0.765	0.825	0.896	0.803	0.865	0.790	8.66
14) Dieldrin	0.889	0.851	0.868	0.905	0.956	1.024	0.957	0.998	0.931	6.71
15) Endrin	0.811	0.786	0.801	0.823	0.865	0.916	0.855	0.897	0.844	5.52
16) 4,4'-DDD	0.631	0.601	0.607	0.633	0.698	0.743	0.712	0.720	0.668	8.39
17) Endosulfan I	0.801	0.777	0.772	0.794	0.852	0.892	0.907	0.870	0.833	6.42
18) 4,4'-DDT	0.668	0.653	0.659	0.706	0.746	0.825	0.778	0.779	0.727	8.90
19) Endrin Aldeh	0.645	0.641	0.650	0.655	0.673	0.724	0.753	0.690	0.679	6.00
20) Endosulfan S	0.718	0.683	0.687	0.703	0.726	0.763	0.827	0.747	0.732	6.48
21) Methoxychlor	0.412	0.397	0.403	0.433	0.436	0.441	0.521	0.440	0.436	8.90
22) Mirex	0.766	0.748	0.732	0.730	0.719	0.716	0.838	0.719	0.746	5.48
23) Endrin Keton	0.823	0.800	0.805	0.855	0.892	0.929	0.943	0.913	0.870	6.53
24) Decachlorobi	0.831	0.802	0.796	0.774	0.761	0.757	0.894	0.759	0.797	5.90
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.014				0.014	0.00
27) Toxaphene{B}					0.029				0.029	0.00
28) Toxaphene{C}					0.043				0.043	0.00
29) Toxaphene{D}					0.024				0.024	0.00
30) Toxaphene{E}					0.027				0.027	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.031				0.031	0.00
33) Chlordane {B					0.041				0.041	0.00
34) Chlordane {C					0.131				0.131	0.00
35) Chlordane {D					0.206				0.206	0.00
36) Chlordane {E					0.032				0.032	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.962	0.918	0.884	0.869	0.864	0.884	0.972	0.874	0.903	4.72
3) alpha-BHC	1.139	1.104	1.107	1.136	1.192	1.282	1.217	1.238	1.177	5.54
4) gamma-BHC	1.107	1.056	1.044	1.060	1.100	1.161	1.155	1.132	1.102	4.12

Initial Calibration Summary

Job Number: JC19473 **Sample:** G6G987-ICC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34134.D
Project: BMSMC, Building 5 Area, PR

5)	Heptachlor	1.142	1.066	1.070	1.043	1.075	1.103	1.323	1.088	1.114	8.03
6)	beta-BHC	0.543	0.541	0.528	0.509	0.526	0.522	0.606	0.521	0.537	5.56
7)	delta-BHC	1.023	0.939	0.958	0.987	1.031	1.094	1.114	1.069	1.027	6.16
8)	Aldrin	1.041	1.030	0.993	0.982	0.993	1.035	1.198	1.013	1.036	6.67
9)	Heptachlor E	1.044	0.951	0.948	0.930	0.925	0.945	1.047	0.931	0.965	5.20
10)	gamma-Chlord	1.015	0.931	0.917	0.894	0.901	0.924	1.056	0.910	0.944	6.26
11)	alpha-Chlord	0.972	0.946	0.913	0.892	0.890	0.904	1.087	0.895	0.937	7.17
12)	Endosulfan I	0.942	0.904	0.893	0.857	0.858	0.871	1.096	0.864	0.911	8.81
13)	4,4'-DDE	0.845	0.758	0.727	0.711	0.812	0.821	0.992	0.802	0.808	10.85
14)	Dieldrin	0.988	0.930	0.891	0.872	0.881	0.910	1.076	0.893	0.930	7.47
15)	Endrin	0.903	0.883	0.801	0.787	0.798	0.819	0.963	0.809	0.845	7.50
16)	4,4'-DDD	0.707	0.720	0.707	0.681	0.703	0.708	0.651	0.704	0.698	3.12
17)	Endosulfan I	0.871	0.816	0.790	0.768	0.803	0.815	0.941	0.809	0.827	6.65
18)	4,4'-DDT	0.651	0.601	0.576	0.597	0.625	0.656	0.717	0.642	0.633	6.98
19)	Endrin Aldeh	0.691	0.653	0.648	0.635	0.643	0.648	0.798	0.646	0.670	8.12
20)	Endosulfan S	0.801	0.702	0.706	0.676	0.679	0.686	0.889	0.681	0.727	10.56
21)	Methoxychlor	0.340	0.357	0.338	0.341	0.351	0.359	0.349	0.356	0.349	2.33
22)	Mirex	0.784	0.734	0.702	0.658	0.640	0.626	0.952	0.634	0.716	15.36
23)	Endrin Keton	0.917	0.840	0.803	0.789	0.803	0.828	1.006	0.816	0.850	8.75
24)	Decachlorobi	0.777	0.577	0.680	0.677	0.666	0.657	0.755	0.645	0.679	9.24

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.015	0.015	0.00
27)	Toxaphene{B}	0.026	0.026	0.00
28)	Toxaphene{C}	0.039	0.039	0.00
29)	Toxaphene{D}	0.026	0.026	0.00
30)	Toxaphene{E}	0.022	0.022	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.031	0.031	0.00
33)	Chlordane {B	0.038	0.038	0.00
34)	Chlordane {C	0.113	0.113	0.00
35)	Chlordane {D	0.189	0.189	0.00
36)	Chlordane {E	0.030	0.030	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

6PST987.M Mon Apr 18 11:29:41 2016

8.9.10

8

Initial Calibration Verification

Job Number: JC19473 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34140.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\987\6g34140.D\ECD1A.CH     Vial: 13
Signal #2 : C:\msdchem\1\DATA\987\6g34140.D\ECD2B.CH
Acq On    : 14 Apr 2016   6:33 pm                    Operator: dharas
Sample    : icv987-25                                Inst    : HP G1530A
Misc      : op92908,g6g987,6.8,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Apr 18 11:27:24 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	0.00	1.28- 1.34
2	SAB	Tetrachloro-m-xylene	0.916	0.874	4.6	98	0.00	1.96- 2.02
3	A	alpha-BHC	1.181	1.114	5.7	94	0.00	2.47- 2.53
4	MA	gamma-BHC	1.100	1.046	4.9	95	0.00	2.79- 2.85
5	MA	Heptachlor	1.104	1.038	6.0	96	0.00	3.31- 3.37
6	B	beta-BHC	0.540	0.507	6.1	95	0.00	2.87- 2.93
7	B	delta-BHC	1.025	1.045	-2.0	101	0.00	3.06- 3.12
8	MB	Aldrin	1.020	0.950	6.9	95	0.00	3.66- 3.73
9	B	Heptachlor Epoxide	0.955	0.899	5.9	96	0.00	4.41- 4.47
10	B	gamma-Chlordane	0.961	0.924	3.9	98	0.00	4.59- 4.65
11	B	alpha-Chlordane	0.954	0.904	5.2	97	0.00	4.77- 4.83
12	A	Endosulfan I	0.941	0.877	6.8	95	0.00	4.95- 5.01
13	B	4,4'-DDE	0.790	0.718	9.1	93	0.00	4.90- 4.96
14	MA	Dieldrin	0.931	0.881	5.4	97	0.00	5.30- 5.36
15	MA	Endrin	0.844	0.820	2.8	99	-0.01	5.64- 5.70
16	A	4,4'-DDD	0.668	0.637	4.6	100	-0.01	5.79- 5.85
17	B	Endosulfan II	0.833	0.789	5.3	99	0.00	5.98- 6.04
18	MA	4,4'-DDT	0.727	0.694	4.5	98	-0.01	6.24- 6.30
19	B	Endrin Aldehyde	0.679	0.694	-2.2	105	-0.01	6.65- 6.71
20	B	Endosulfan Sulfate	0.732	0.724	1.1	102	-0.01	7.39- 7.45
21	A	Methoxychlor	0.436	0.413	5.3	95	-0.01	7.11- 7.17
22		Mirex		----------NA----------				
23	B	Endrin Ketone	0.870	0.850	2.3	99	-0.01	7.87- 7.93
24	SAB	Decachlorobiphenyl	0.797	0.781	2.0	100	-0.01	9.89- 9.95
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.28- 1.34
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	95	0.00	1.28- 1.34
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

8.9.11

8

Initial Calibration Verification

Job Number: JC19473 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34140.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.903	0.865	4.2	99	0.00	2.45- 2.51
3	A	alpha-BHC	1.177	1.083	8.0	95	0.00	3.15- 3.21
4	MA	gamma-BHC	1.102	1.014	8.0	95	0.00	3.61- 3.67
5	MA	Heptachlor	1.114	1.023	8.2	98	0.00	4.21- 4.27
6	B	beta-BHC	0.537	0.489	8.9	96	0.00	3.70- 3.76
7	B	delta-BHC	1.027	0.987	3.9	100	0.00	4.12- 4.18
8	MB	Aldrin	1.036	0.940	9.3	96	0.00	4.69- 4.75
9	B	Heptachlor Epoxide	0.965	0.896	7.2	96	-0.01	5.57- 5.63
10	B	gamma-Chlordane	0.944	0.878	7.0	98	-0.01	5.88- 5.94
11	B	alpha-Chlordane	0.937	0.862	8.0	96	-0.01	6.12- 6.18
12	A	Endosulfan I	0.911	0.822	9.8	96	-0.01	6.22- 6.28
13	B	4,4'-DDE	0.808	0.777	3.8	109	-0.01	6.42- 6.48
14	MA	Dieldrin	0.930	0.848	8.8	97	-0.01	6.69- 6.75
15	MA	Endrin	0.845	0.771	8.8	98	-0.01	7.23- 7.29
16	A	4,4'-DDD	0.698	0.676	3.2	99	-0.01	7.46- 7.52
17	B	Endosulfan II	0.827	0.783	5.3	102	-0.01	7.62- 7.68
18	MA	4,4'-DDT	0.633	0.574	9.3	96	-0.01	8.04- 8.10
19	B	Endrin Aldehyde	0.670	0.646	3.6	101	-0.01	8.25- 8.31
20	B	Endosulfan Sulfate	0.727	0.678	6.7	100	-0.01	8.76- 8.82
21	A	Methoxychlor	0.349	0.337	3.4	99	-0.02	9.41- 9.47
22		Mirex		----------NA----------				
23	B	Endrin Ketone	0.850	0.785	7.6	99	-0.02	9.81- 9.87
24	SAB	Decachlorobiphenyl	0.679	0.707	-4.1	104	-0.01	11.73-11.79
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.55- 1.61
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	93	0.00	1.48- 1.68
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
6g34134.D 6PST987.M Mon Apr 18 12:19:50 2016

8.9.11

8

Initial Calibration Verification

Job Number: JC19473 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34141.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\987\6g34141.D\ECD1A.CH     Vial: 14
Signal #2 : C:\msdchem\1\DATA\987\6g34141.D\ECD2B.CH
Acq On    : 14 Apr 2016   6:49 pm                    Operator: dharas
Sample    : icv987-25                                Inst    : HP G1530A
Misc      : op92908,g6g987,6.8,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Apr 18 11:27:24 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	96	0.00	1.28- 1.34
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	0.746	0.778	-4.3	103	0.00	7.24- 7.30
23	B	Endrin Ketone		----------NA----------				
24	SAB	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.28- 1.34
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	93	0.00	1.28- 1.34
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: JC19473 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34141.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.56- 1.62
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	0.716	0.722	-0.8	108	-0.01	9.73- 9.79
23	B	Endrin Ketone		----------NA----------				
24	SAB	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	92	0.00	1.56- 1.62
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	92	0.00	1.49- 1.69
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
6g34134.D 6PST987.M Mon Apr 18 12:20:19 2016

8.9.12

8

Initial Calibration Verification

Job Number: JC19473 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34142.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\987\6g34142.D\ECD1A.CH     Vial: 15
Signal #2 : C:\msdchem\1\DATA\987\6g34142.D\ECD2B.CH
Acq On    : 14 Apr 2016   7:06 pm                    Operator: dharas
Sample    : icv987-500                               Inst    : HP G1530A
Misc      : op92908,g6g987,6.8,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Apr 18 11:27:24 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	98	0.00	1.28- 1.34
2	SAB	Tetrachloro-m-xylene	0.916	0.850	7.2	92	0.00	1.96- 2.02
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	SAB	Decachlorobiphenyl	0.797	0.776	2.6	99	-0.01	9.90- 9.96
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	1.28- 1.34
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	0.00	1.28- 1.34
32		Chlordane {A}	0.031	0.036	-16.1	114	0.00	3.15- 3.35
33		Chlordane {B}	0.041	0.040	2.4	97	0.00	3.75- 3.95
34		Chlordane {C}	0.131	0.129	1.5	96	0.00	4.52- 4.72
35		Chlordane {D}	0.206	0.209	-1.5	100	0.00	4.69- 4.89
36		Chlordane {E}	0.032	0.030	6.3	91	0.00	5.82- 6.02

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC19473 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34142.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.903	0.804	11.0	93	0.00	2.45- 2.51
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	SAB	Decachlorobiphenyl	0.679	0.672	1.0	101	-0.01	11.73-11.79
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.55- 1.61
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	101	0.00	1.48- 1.68
32		Chlordane {A}	0.031	0.035	-12.9	114	0.00	3.93- 4.13
33		Chlordane {B}	0.038	0.038	0.0	102	0.00	4.83- 5.03
34		Chlordane {C}	0.113	0.110	2.7	98	-0.01	5.81- 6.01
35		Chlordane {D}	0.189	0.188	0.5	100	-0.01	6.05- 6.25
36		Chlordane {E}	0.030	0.027	10.0	91	-0.01	7.63- 7.83

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34135.D 6PST987.M Mon Apr 18 12:21:19 2016

Initial Calibration Verification

Job Number: JC19473 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34143.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\987\6g34143.D\ECD1A.CH     Vial: 16
Signal #2 : C:\msdchem\1\DATA\987\6g34143.D\ECD2B.CH
Acq On    : 14 Apr 2016   7:22 pm                    Operator: dharas
Sample    : icv987-500                               Inst    : HP G1530A
Misc      : op92908,g6g987,6.8,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Apr 18 11:27:24 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	0.00	1.28- 1.34
2	SAB	Tetrachloro-m-xylene	0.916	0.801	12.6	90	0.00	1.96- 2.02
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	SAB	Decachlorobiphenyl	0.797	0.743	6.8	99	-0.01	9.89- 9.95
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.28- 1.34
26	L8	Toxaphene{A}	0.014	0.015	-7.1	108	-0.01	5.24- 5.44
27	L8	Toxaphene{B}	0.029	0.028	3.4	97	0.00	5.63- 5.83
28	L8	Toxaphene{C}	0.043	0.042	2.3	98	-0.01	5.90- 6.10
29	L8	Toxaphene{D}	0.024	0.024	0.0	96	-0.01	6.46- 6.66
30	L8	Toxaphene{E}	0.027	0.025	7.4	92	-0.01	7.16- 7.36
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.28- 1.34
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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G6G987-ICV987
Lab FileID: 6G34143.D

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	97	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.903	0.823	8.9	93	0.00	2.45- 2.51
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	SAB	Decachlorobiphenyl	0.679	0.680	-0.1	99	-0.01	11.73-11.79
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.55- 1.61
26	L8	Toxaphene{A}	0.015	0.013	13.3	85	-0.01	6.59- 6.79
27	L8	Toxaphene{B}	0.026	0.025	3.8	92	-0.01	7.52- 7.72
28	L8	Toxaphene{C}	0.039	0.037	5.1	90	-0.01	7.70- 7.90
29	L8	Toxaphene{D}	0.026	0.025	3.8	92	-0.01	8.18- 8.38
30	L8	Toxaphene{E}	0.022	0.024	-9.1	102	-0.01	9.16- 9.36
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.48- 1.68
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
6g34135.D 6PST987.M Mon Apr 18 12:22:01 2016

8.9.14
8

Continuing Calibration Summary

Job Number: JC19473 **Sample:** G6G1001-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34616.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1001\6g34616.D\ECD1A.CH    Vial: 4
Signal #2 : C:\msdchem\1\DATA\1001\6g34616.D\ECD2B.CH
Acq On    : 03 May 2016  10:24 am                    Operator: dharas
Sample    : cc987-50                                 Inst    : HP G1530A
Misc      : op93532,g6g1001,15.7,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 02 10:46:23 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	100	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.916	0.900	1.7	100	0.00	1.95- 2.01
3	A	alpha-BHC	1.181	1.272	-7.7	99	0.00	2.46- 2.52
4	MA	gamma-BHC	1.100	1.157	-5.2	99	0.00	2.78- 2.84
5	MA	Heptachlor	1.104	1.119	-1.4	99	0.00	3.30- 3.36
6	B	beta-BHC	0.540	0.520	3.7	98	0.00	2.85- 2.91
7	B	delta-BHC	1.025	1.088	-6.1	97	0.00	3.05- 3.11
8	MB	Aldrin	1.020	1.048	-2.7	99	0.00	3.65- 3.72
9	B	Heptachlor Epoxide	0.955	0.966	-1.2	99	0.00	4.40- 4.46
10	B	gamma-Chlordane	0.961	0.942	2.0	96	0.00	4.58- 4.64
11	B	alpha-Chlordane	0.954	0.940	1.5	97	0.00	4.76- 4.82
12	A	Endosulfan I	0.941	0.932	1.0	98	0.00	4.94- 5.00
13	B	4,4'-DDE	0.790	0.841	-6.5	102	0.00	4.89- 4.95
14	MA	Dieldrin	0.931	0.953	-2.4	100	0.00	5.28- 5.34
15	MA	Endrin	0.844	0.888	-5.2	102	0.00	5.62- 5.68
16	A	4,4'-DDD	0.668	0.719	-7.6	103	0.00	5.77- 5.83
17	B	Endosulfan II	0.833	0.851	-2.2	100	0.00	5.96- 6.02
18	MA	4,4'-DDT	0.727	0.756	-4.0	101	0.00	6.22- 6.28
19	B	Endrin Aldehyde	0.679	0.678	0.1	100	0.00	6.64- 6.70
20	B	Endosulfan Sulfate	0.732	0.748	-2.2	103	0.00	7.37- 7.43
21	A	Methoxychlor	0.436	0.440	-0.9	101	-0.01	7.09- 7.15
22		Mirex	0.746	0.703	5.8	98	0.00	7.22- 7.28
23	B	Endrin Ketone	0.870	0.893	-2.6	100	0.00	7.84- 7.90
24	SAB	Decachlorobiphenyl	0.797	0.746	6.4	98	0.00	9.88- 9.94
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.27- 1.33
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	101	0.00	1.27- 1.33
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: JC19473 **Sample:** G6G1001-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34616.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	110	0.00	1.54- 1.60
2	SAB	Tetrachloro-m-xylene	0.903	0.854	5.4	108	0.00	2.44- 2.50
3	A	alpha-BHC	1.177	1.196	-1.6	110	0.00	3.14- 3.20
4	MA	gamma-BHC	1.102	1.086	1.5	108	0.00	3.59- 3.65
5	MA	Heptachlor	1.114	1.053	5.5	107	0.00	4.20- 4.26
6	B	beta-BHC	0.537	0.488	9.1	102	0.00	3.68- 3.74
7	B	delta-BHC	1.027	1.028	-0.1	109	0.00	4.10- 4.16
8	MB	Aldrin	1.036	0.978	5.6	108	0.00	4.67- 4.73
9	B	Heptachlor Epoxide	0.965	0.897	7.0	106	0.00	5.55- 5.61
10	B	gamma-Chlordane	0.944	0.881	6.7	107	0.00	5.86- 5.92
11	B	alpha-Chlordane	0.937	0.870	7.2	107	0.00	6.10- 6.16
12	A	Endosulfan I	0.911	0.845	7.2	108	0.00	6.20- 6.26
13	B	4,4'-DDE	0.808	0.821	-1.6	111	0.00	6.40- 6.46
14	MA	Dieldrin	0.930	0.875	5.9	109	0.00	6.67- 6.73
15	MA	Endrin	0.845	0.818	3.2	112	0.00	7.21- 7.27
16	A	4,4'-DDD	0.698	0.695	0.4	108	0.00	7.43- 7.49
17	B	Endosulfan II	0.827	0.802	3.0	109	0.00	7.60- 7.66
18	MA	4,4'-DDT	0.633	0.656	-3.6	115	0.00	8.01- 8.07
19	B	Endrin Aldehyde	0.670	0.642	4.2	109	0.00	8.22- 8.28
20	B	Endosulfan Sulfate	0.727	0.698	4.0	113	0.00	8.74- 8.80
21	A	Methoxychlor	0.349	0.365	-4.6	114	0.00	9.39- 9.45
22		Mirex	0.716	0.635	11.3	109	0.00	9.70- 9.76
23	B	Endrin Ketone	0.850	0.814	4.2	111	0.00	9.79- 9.85
24	SAB	Decachlorobiphenyl	0.679	0.686	-1.0	113	0.00	11.72-11.78
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.54- 1.60
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	111	0.00	1.47- 1.67
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
6g34135.D 6PST987.M Tue May 03 11:35:30 2016

8.9.15

8

Continuing Calibration Summary

Job Number: JC19473 **Sample:** G6G1001-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34638.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1001\6g34638.D\ECD1A.CH    Vial: 2
Signal #2 : C:\msdchem\1\DATA\1001\6g34638.D\ECD2B.CH
Acq On    : 03 May 2016   5:54 pm                    Operator: dharas
Sample    : cc987-25                                 Inst    : HP G1530A
Misc      : op93532,g6g1001,15.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 02 10:46:23 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	92	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.916	0.974	-6.3	102	0.00	1.95- 2.01
3	A	alpha-BHC	1.181	1.301	-10.2	102	0.00	2.46- 2.52
4	MA	gamma-BHC	1.100	1.205	-9.5	102	0.00	2.77- 2.83
5	MA	Heptachlor	1.104	1.172	-6.2	100	0.00	3.30- 3.36
6	B	beta-BHC	0.540	0.574	-6.3	100	0.00	2.85- 2.91
7	B	delta-BHC	1.025	1.118	-9.1	100	0.00	3.05- 3.11
8	MB	Aldrin	1.020	1.086	-6.5	101	0.00	3.65- 3.72
9	B	Heptachlor Epoxide	0.955	1.031	-8.0	102	0.00	4.40- 4.46
10	B	gamma-Chlordane	0.961	0.976	-1.6	96	0.00	4.57- 4.63
11	B	alpha-Chlordane	0.954	0.981	-2.8	97	0.00	4.76- 4.82
12	A	Endosulfan I	0.941	0.991	-5.3	100	0.00	4.94- 5.00
13	B	4,4'-DDE	0.790	0.839	-6.2	101	0.00	4.89- 4.95
14	MA	Dieldrin	0.931	0.995	-6.9	101	0.00	5.28- 5.34
15	MA	Endrin	0.844	0.927	-9.8	104	0.00	5.62- 5.68
16	A	4,4'-DDD	0.668	0.744	-11.4	108	0.00	5.77- 5.83
17	B	Endosulfan II	0.833	0.914	-9.7	106	0.00	5.96- 6.02
18	MA	4,4'-DDT	0.727	0.795	-9.4	104	0.00	6.22- 6.28
19	B	Endrin Aldehyde	0.679	0.738	-8.7	104	0.00	6.63- 6.69
20	B	Endosulfan Sulfate	0.732	0.809	-10.5	106	0.00	7.37- 7.43
21	A	Methoxychlor	0.436	0.496	-13.8	106	-0.01	7.09- 7.15
22		Mirex	0.746	0.800	-7.2	101	0.00	7.22- 7.28
23	B	Endrin Ketone	0.870	0.994	-14.3	107	0.00	7.84- 7.90
24	SAB	Decachlorobiphenyl	0.797	0.869	-9.0	104	0.00	9.88- 9.94
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	88	0.00	1.27- 1.33
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	88	0.00	1.27- 1.33
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: JC19473 **Sample:** G6G1001-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34638.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.54- 1.60
2	SAB	Tetrachloro-m-xylene	0.903	0.939	-4.0	110	0.00	2.44- 2.50
3	A	alpha-BHC	1.177	1.241	-5.4	111	0.00	3.14- 3.20
4	MA	gamma-BHC	1.102	1.148	-4.2	110	0.00	3.59- 3.65
5	MA	Heptachlor	1.114	1.130	-1.4	110	0.00	4.20- 4.26
6	B	beta-BHC	0.537	0.535	0.4	106	0.00	3.68- 3.74
7	B	delta-BHC	1.027	1.078	-5.0	111	0.00	4.10- 4.16
8	MB	Aldrin	1.036	1.046	-1.0	108	0.00	4.67- 4.73
9	B	Heptachlor Epoxide	0.965	0.981	-1.7	107	0.00	5.55- 5.61
10	B	gamma-Chlordane	0.944	0.953	-1.0	108	0.00	5.86- 5.92
11	B	alpha-Chlordane	0.937	0.945	-0.9	107	0.00	6.10- 6.16
12	A	Endosulfan I	0.911	0.920	-1.0	109	0.00	6.20- 6.26
13	B	4,4'-DDE	0.808	0.864	-6.9	123	0.00	6.40- 6.46
14	MA	Dieldrin	0.930	0.939	-1.0	109	0.00	6.67- 6.73
15	MA	Endrin	0.845	0.874	-3.4	113	0.00	7.21- 7.27
16	A	4,4'-DDD	0.698	0.745	-6.7	111	0.00	7.43- 7.49
17	B	Endosulfan II	0.827	0.867	-4.8	114	0.00	7.59- 7.65
18	MA	4,4'-DDT	0.633	0.703	-11.1	119	0.00	8.01- 8.07
19	B	Endrin Aldehyde	0.670	0.710	-6.0	113	0.00	8.22- 8.28
20	B	Endosulfan Sulfate	0.727	0.780	-7.3	117	0.00	8.74- 8.80
21	A	Methoxychlor	0.349	0.406	-16.3	120	0.00	9.39- 9.45
22		Mirex	0.716	0.724	-1.1	111	0.00	9.70- 9.76
23	B	Endrin Ketone	0.850	0.910	-7.1	117	0.00	9.79- 9.85
24	SAB	Decachlorobiphenyl	0.679	0.803	-18.3	120	0.00	11.72-11.78
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.54- 1.60
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	95	0.00	1.47- 1.67
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
6g34134.D 6PST987.M Wed May 04 11:00:41 2016

8.9.16

8

Continuing Calibration Summary

Job Number: JC19473 **Sample:** G6G1001-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34659.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1001\6g34659.D\ECD1A.CH    Vial: 4
Signal #2 : C:\msdchem\1\DATA\1001\6g34659.D\ECD2B.CH
Acq On    : 03 May 2016  11:39 pm                    Operator: dharas
Sample    : cc987-50                                 Inst    : HP G1530A
Misc      : op93556,g6g1001,15.7,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 02 10:46:23 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	107	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.916	0.908	0.9	108	0.00	1.95- 2.01
3	A	alpha-BHC	1.181	1.318	-11.6	110	0.00	2.46- 2.52
4	MA	gamma-BHC	1.100	1.206	-9.6	111	0.00	2.78- 2.84
5	MA	Heptachlor	1.104	1.117	-1.2	106	0.00	3.30- 3.36
6	B	beta-BHC	0.540	0.552	-2.2	111	0.00	2.86- 2.92
7	B	delta-BHC	1.025	1.188	-15.9	113	0.00	3.05- 3.11
8	MB	Aldrin	1.020	1.094	-7.3	111	0.00	3.65- 3.72
9	B	Heptachlor Epoxide	0.955	0.994	-4.1	110	0.00	4.40- 4.46
10	B	gamma-Chlordane	0.961	1.011	-5.2	110	0.00	4.58- 4.64
11	B	alpha-Chlordane	0.954	0.996	-4.4	110	0.00	4.76- 4.82
12	A	Endosulfan I	0.941	0.979	-4.0	111	0.00	4.94- 5.00
13	B	4,4'-DDE	0.790	0.862	-9.1	112	0.00	4.89- 4.95
14	MA	Dieldrin	0.931	0.994	-6.8	111	0.00	5.28- 5.34
15	MA	Endrin	0.844	0.888	-5.2	110	0.00	5.62- 5.68
16	A	4,4'-DDD	0.668	0.782	-17.1	120	0.00	5.77- 5.83
17	B	Endosulfan II	0.833	0.875	-5.0	110	0.00	5.96- 6.02
18	MA	4,4'-DDT	0.727	0.641	11.8	92	0.00	6.22- 6.28
19	B	Endrin Aldehyde	0.679	0.702	-3.4	112	0.00	6.63- 6.69
20	B	Endosulfan Sulfate	0.732	0.761	-4.0	112	0.00	7.37- 7.43
21	A	Methoxychlor	0.436	0.381	12.6	94	0.00	7.09- 7.15
22		Mirex	0.746	0.721	3.4	107	0.00	7.22- 7.28
23	B	Endrin Ketone	0.870	0.932	-7.1	112	0.00	7.85- 7.91
24	SAB	Decachlorobiphenyl	0.797	0.721	9.5	101	0.00	9.88- 9.94
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.27- 1.33
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	108	0.00	1.27- 1.33
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: JC19473 **Sample:** G6G1001-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34659.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	116	0.00	1.54- 1.60
2	SAB	Tetrachloro-m-xylene	0.903	0.882	2.3	119	0.00	2.44- 2.50
3	A	alpha-BHC	1.177	1.223	-3.9	119	0.00	3.14- 3.20
4	MA	gamma-BHC	1.102	1.120	-1.6	118	0.00	3.59- 3.65
5	MA	Heptachlor	1.114	1.051	5.7	114	0.00	4.20- 4.26
6	B	beta-BHC	0.537	0.519	3.4	115	0.00	3.68- 3.74
7	B	delta-BHC	1.027	1.071	-4.3	121	0.00	4.10- 4.16
8	MB	Aldrin	1.036	1.008	2.7	118	0.00	4.67- 4.73
9	B	Heptachlor Epoxide	0.965	0.928	3.8	117	0.00	5.55- 5.61
10	B	gamma-Chlordane	0.944	0.916	3.0	118	0.00	5.86- 5.92
11	B	alpha-Chlordane	0.937	0.899	4.1	118	0.00	6.10- 6.16
12	A	Endosulfan I	0.911	0.867	4.8	118	0.00	6.20- 6.26
13	B	4,4'-DDE	0.808	0.733	9.3	105	0.00	6.40- 6.46
14	MA	Dieldrin	0.930	0.900	3.2	119	0.00	6.67- 6.73
15	MA	Endrin	0.845	0.809	4.3	118	0.00	7.21- 7.27
16	A	4,4'-DDD	0.698	0.751	-7.6	124	0.00	7.43- 7.49
17	B	Endosulfan II	0.827	0.836	-1.1	121	0.00	7.60- 7.66
18	MA	4,4'-DDT	0.633	0.531	16.1	99	0.00	8.01- 8.07
19	B	Endrin Aldehyde	0.670	0.668	0.3	121	0.00	8.22- 8.28
20	B	Endosulfan Sulfate	0.727	0.706	2.9	121	0.00	8.74- 8.80
21	A	Methoxychlor	0.349	0.305	12.6	101	0.00	9.39- 9.45
22		Mirex	0.716	0.647	9.6	118	0.00	9.70- 9.76
23	B	Endrin Ketone	0.850	0.843	0.8	122	0.00	9.79- 9.85
24	SAB	Decachlorobiphenyl	0.679	0.657	3.2	115	0.00	11.72-11.78
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	114	0.00	1.54- 1.60
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	117	0.00	1.47- 1.67
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
6g34135.D 6PST987.M Wed May 04 13:00:44 2016

8.9.17

8

Continuing Calibration Summary

Job Number: JC19473 **Sample:** G6G1002-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34670.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1002\6g34670.D\ECD1A.CH    Vial: 2
Signal #2 : C:\msdchem\1\DATA\1002\6g34670.D\ECD2B.CH
Acq On    : 04 May 2016   7:49 am                    Operator: brittanp
Sample    : cc987-25                                 Inst    : HP G1530A
Misc      : op93556,g6g1002,16.6,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 02 10:46:23 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	90	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.916	0.983	-7.3	100	0.00	1.95- 2.01
3	A	alpha-BHC	1.181	1.305	-10.5	100	0.00	2.46- 2.52
4	MA	gamma-BHC	1.100	1.213	-10.3	100	0.00	2.77- 2.83
5	MA	Heptachlor	1.104	1.172	-6.2	98	0.00	3.30- 3.36
6	B	beta-BHC	0.540	0.586	-8.5	100	0.00	2.85- 2.91
7	B	delta-BHC	1.025	1.066	-4.0	93	0.00	3.05- 3.11
8	MB	Aldrin	1.020	1.078	-5.7	98	0.00	3.65- 3.72
9	B	Heptachlor Epoxide	0.955	1.010	-5.8	98	0.00	4.40- 4.46
10	B	gamma-Chlordane	0.961	0.948	1.4	91	0.00	4.57- 4.63
11	B	alpha-Chlordane	0.954	0.962	-0.8	93	0.00	4.76- 4.82
12	A	Endosulfan I	0.941	0.973	-3.4	96	0.00	4.94- 5.00
13	B	4,4'-DDE	0.790	0.813	-2.9	96	0.00	4.89- 4.95
14	MA	Dieldrin	0.931	0.970	-4.2	97	0.00	5.28- 5.34
15	MA	Endrin	0.844	0.899	-6.5	98	0.00	5.62- 5.68
16	A	4,4'-DDD	0.668	0.690	-3.3	98	0.00	5.77- 5.83
17	B	Endosulfan II	0.833	0.866	-4.0	98	0.00	5.96- 6.02
18	MA	4,4'-DDT	0.727	0.765	-5.2	98	0.00	6.22- 6.28
19	B	Endrin Aldehyde	0.679	0.711	-4.7	98	0.00	6.63- 6.69
20	B	Endosulfan Sulfate	0.732	0.782	-6.8	100	0.00	7.37- 7.43
21	A	Methoxychlor	0.436	0.484	-11.0	101	-0.01	7.09- 7.15
22		Mirex	0.746	0.785	-5.2	97	0.00	7.22- 7.28
23	B	Endrin Ketone	0.870	0.941	-8.2	99	0.00	7.84- 7.90
24	SAB	Decachlorobiphenyl	0.797	0.835	-4.8	97	0.00	9.87- 9.93
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	86	0.00	1.27- 1.33
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	86	0.00	1.27- 1.33
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: JC19473 **Sample:** G6G1002-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34670.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.54- 1.60
2	SAB	Tetrachloro-m-xylene	0.903	0.961	-6.4	110	0.00	2.44- 2.50
3	A	alpha-BHC	1.177	1.259	-7.0	111	0.00	3.14- 3.20
4	MA	gamma-BHC	1.102	1.170	-6.2	110	0.00	3.59- 3.65
5	MA	Heptachlor	1.114	1.144	-2.7	109	0.00	4.20- 4.26
6	B	beta-BHC	0.537	0.553	-3.0	108	0.00	3.68- 3.74
7	B	delta-BHC	1.027	1.053	-2.5	106	0.00	4.10- 4.16
8	MB	Aldrin	1.036	1.058	-2.1	107	0.00	4.67- 4.73
9	B	Heptachlor Epoxide	0.965	0.994	-3.0	107	0.00	5.55- 5.61
10	B	gamma-Chlordane	0.944	0.965	-2.2	108	0.00	5.86- 5.92
11	B	alpha-Chlordane	0.937	0.961	-2.6	108	0.00	6.10- 6.16
12	A	Endosulfan I	0.911	0.924	-1.4	108	0.00	6.20- 6.26
13	B	4,4'-DDE	0.808	0.853	-5.6	120	0.00	6.40- 6.46
14	MA	Dieldrin	0.930	0.934	-0.4	107	0.00	6.67- 6.73
15	MA	Endrin	0.845	0.870	-3.0	110	0.00	7.21- 7.27
16	A	4,4'-DDD	0.698	0.731	-4.7	107	-0.01	7.43- 7.49
17	B	Endosulfan II	0.827	0.854	-3.3	111	0.00	7.59- 7.65
18	MA	4,4'-DDT	0.633	0.691	-9.2	116	0.00	8.01- 8.07
19	B	Endrin Aldehyde	0.670	0.686	-2.4	108	0.00	8.22- 8.28
20	B	Endosulfan Sulfate	0.727	0.754	-3.7	111	0.00	8.74- 8.80
21	A	Methoxychlor	0.349	0.407	-16.6	119	-0.01	9.39- 9.45
22		Mirex	0.716	0.735	-2.7	111	0.00	9.70- 9.76
23	B	Endrin Ketone	0.850	0.879	-3.4	111	0.00	9.78- 9.84
24	SAB	Decachlorobiphenyl	0.679	0.745	-9.7	110	0.00	11.72-11.78
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.54- 1.60
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	93	0.00	1.47- 1.67
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
6g34134.D 6PST987.M Wed May 04 11:17:03 2016

8.9.18

8

GC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34643.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 7:16 pm
Operator : dharas
Sample : jc19473-1
Misc : op93571,g6g1001,300,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 06:57:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.299	1.571	155.9E6	54297608	50.000	50.000
25) I	1-bromo-2...	1.299	1.571	155.9E6	54297608	50.000	50.000
31) I	1-bromo-2...	1.299	1.571	155.9E6	54297608	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.977	2.467	64923920	22852312	22.724	23.295
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 56.81%	58.24%
24)	SAB Decachlor...	9.908	11.748	53846125	14823740	21.674	20.098m
	Spiked Amount	40.000			Recovery	= 54.18%	50.24%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

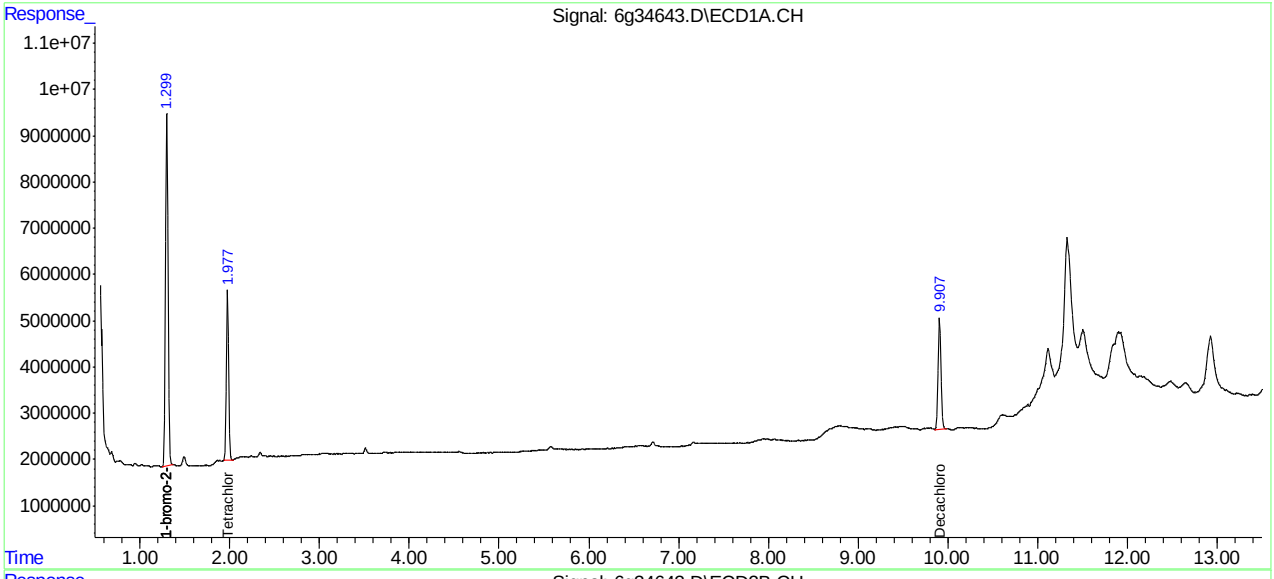
9.1.1
9

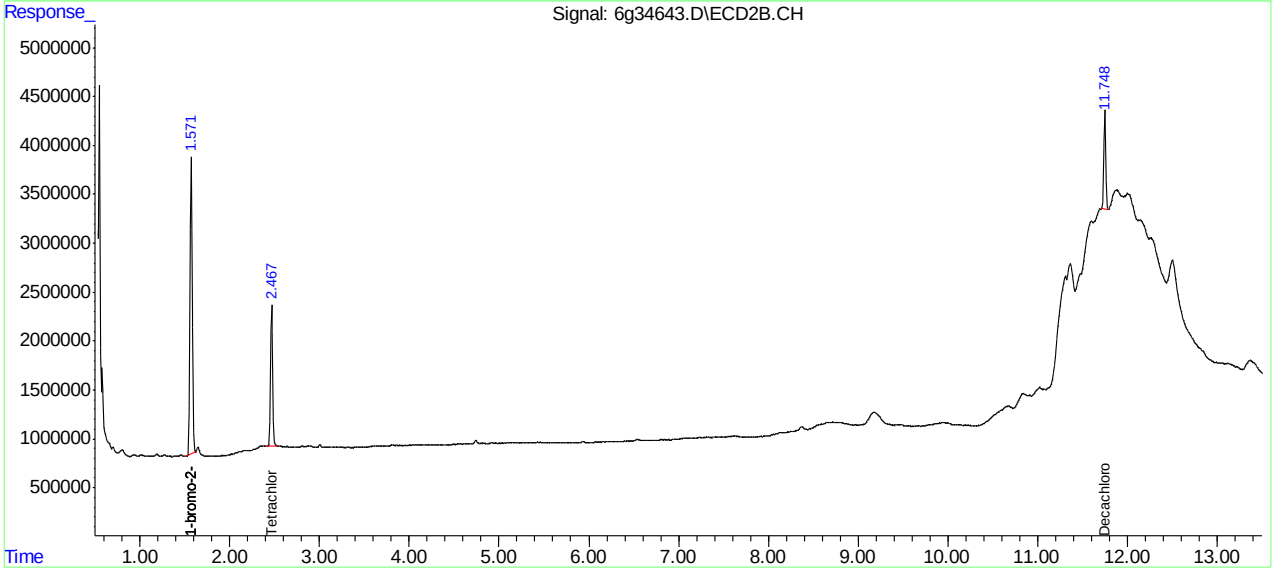
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34643.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 7:16 pm
Operator : dharas
Sample : jc19473-1
Misc : op93571,g6g1001,300,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 06:57:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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:	JC19473-1	**Method:**	SW846 8081B
Lab FileID:	6G34643.D	**Analyst approved:**	05/04/16 10:59 Dhara Saparia
Injection Time:	05/03/16 19:16	**Supervisor approved:**	05/04/16 11:52 Gwendolyn Burns

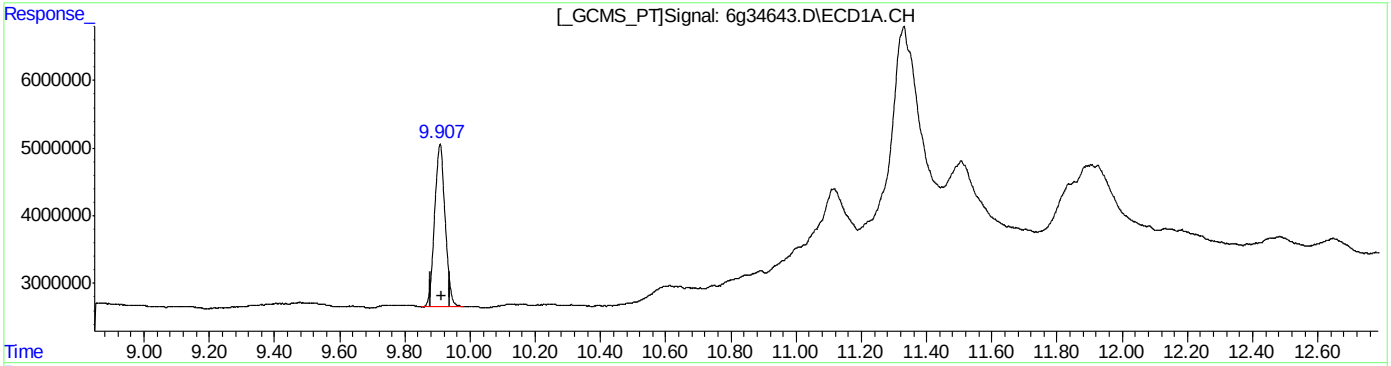
Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	2	11.75	Poorly defined baseline

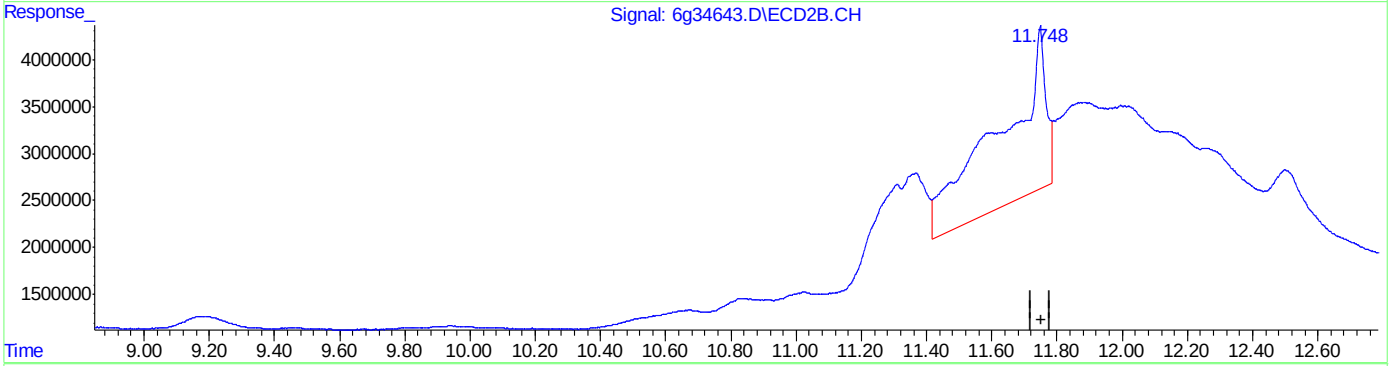
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34643.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 7:16 pm
Operator : dharas
Sample : jc19473-1
Misc : op93571,g6g1001,300,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 06:56:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(24) Decachlorobiphenyl (SAB)
9.908min 21.674PPB
response 53846125

(24) Decachlorobiphenyl #2 (SAB)
11.748min 227.982PPB
response 168156521

(+) = Expected Retention Time
6PST987.M Wed May 04 06:57:01 2016

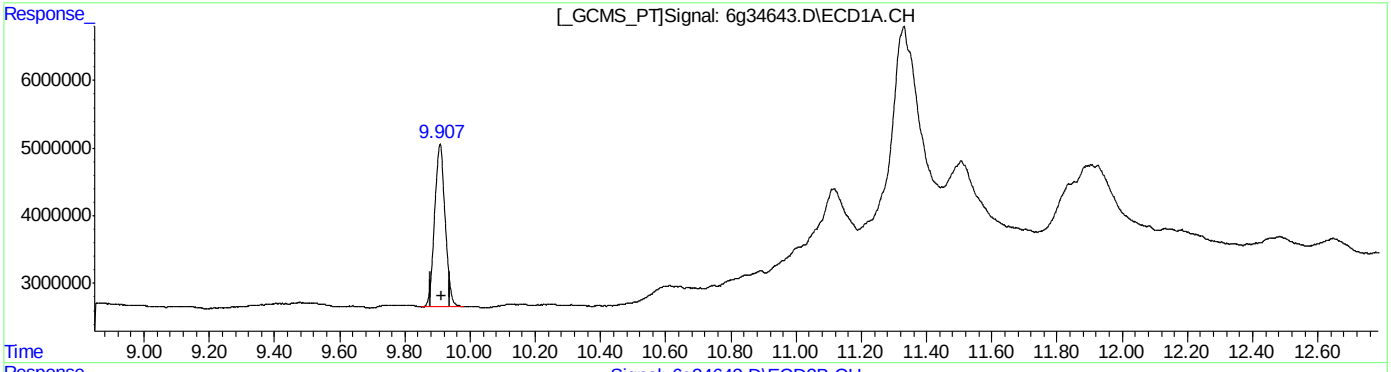
SGS ACCUTEST JC19473

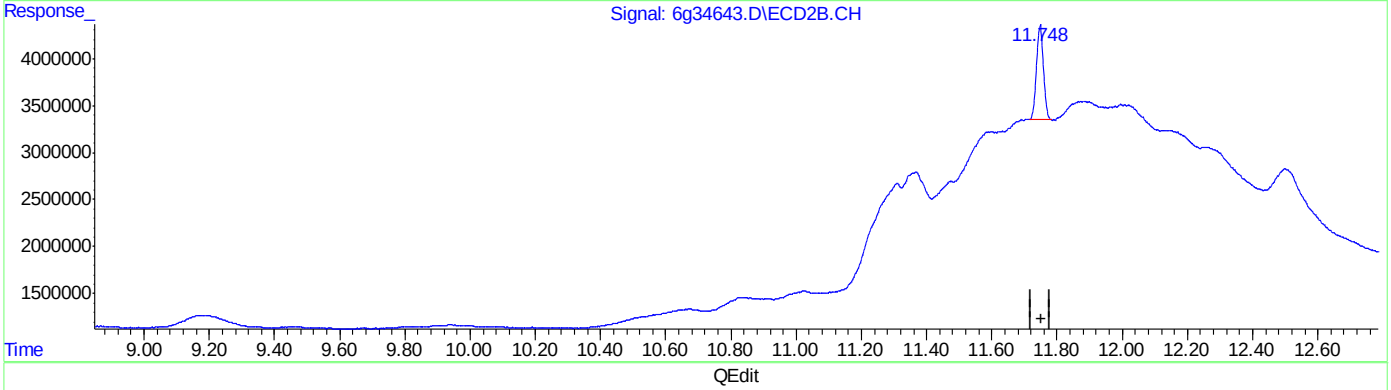
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34643.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 7:16 pm
Operator : dharas
Sample : jc19473-1
Misc : op93571,g6g1001,300,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 06:56:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(24) Decachlorobiphenyl (SAB)
9.908min 21.674PPB
response 53846125

(24) Decachlorobiphenyl #2 (SAB)
11.748min 20.098PPB m
response 14823740

(+) = Expected Retention Time
6PST987.M Wed May 04 06:57:07 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34644.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 7:33 pm
Operator : dharas
Sample : jc19473-2
Misc : op93571,g6g1001,280,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 10:45:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.299	1.571	152.3E6	53244030	50.000	50.000
25) I	1-bromo-2...	1.299	1.571	152.3E6	53244030	50.000	50.000
31) I	1-bromo-2...	1.299	1.571	152.3E6	53244030	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.977	2.467	85542470	29988272	30.647	31.174
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 76.62%	77.94%
24)	SAB Decachlor...	9.904	11.748	100.4E6	24249422	41.379	33.527
	Spiked Amount	40.000			Recovery	= 103.45%	83.82%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

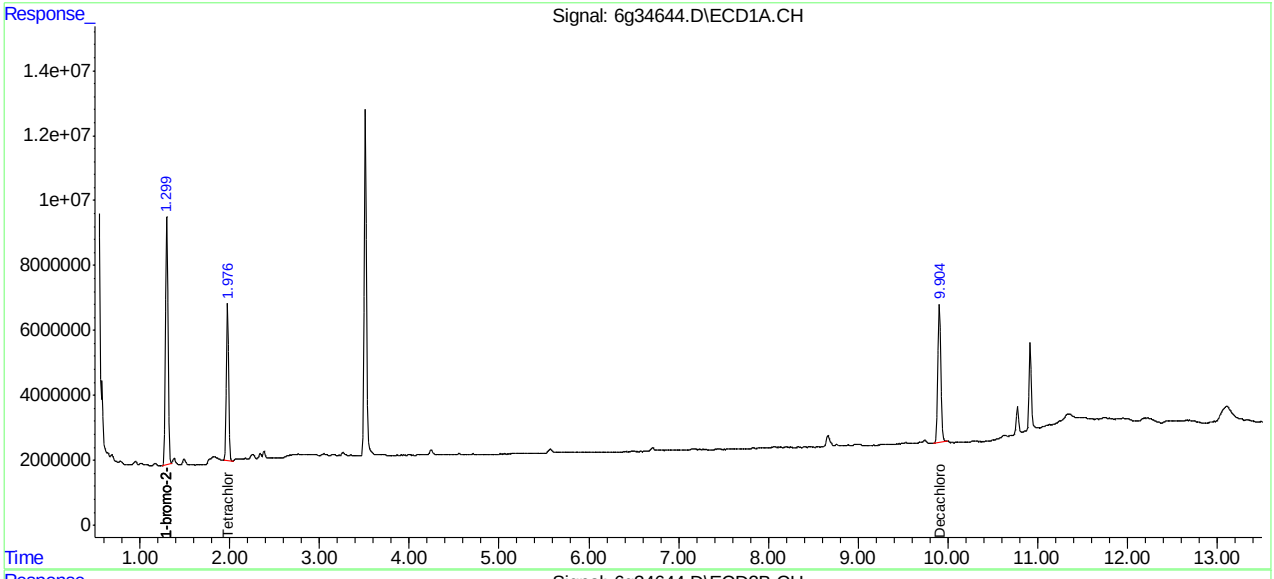
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

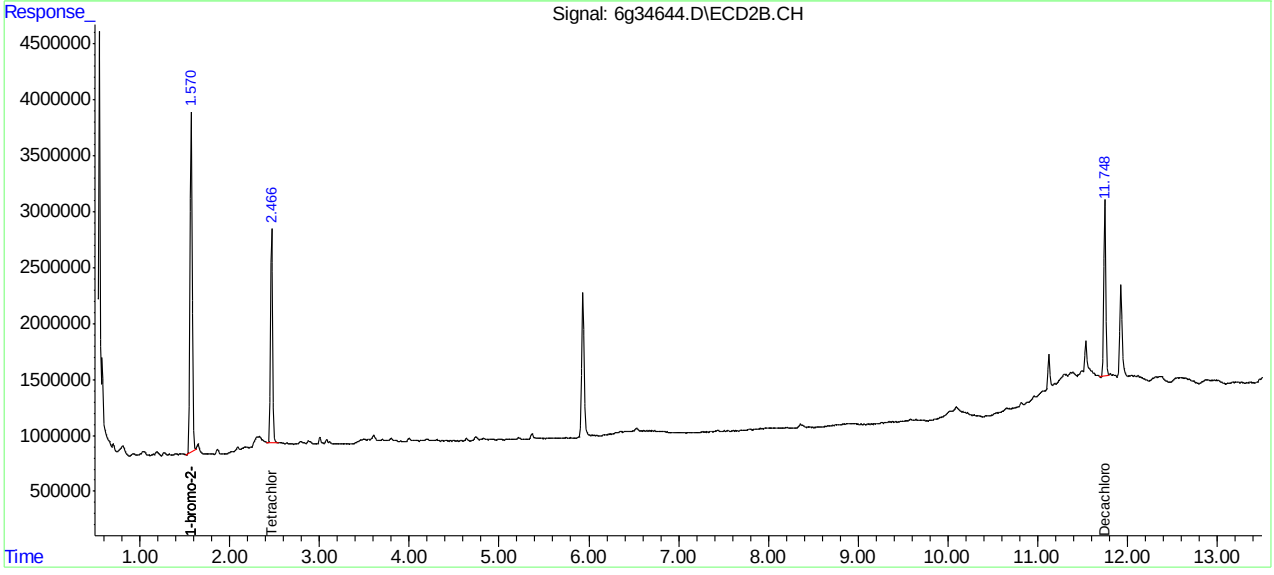
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34644.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 7:33 pm
Operator : dharas
Sample : jc19473-2
Misc : op93571,g6g1001,280,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 10:45:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g68007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:32 pm
Operator : dharas
Sample : jc19473-3
Misc : op93683,g4g1782,15.3,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:05:54 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...	1.799	2.070	382.1E6	408.8E6	50.000	50.000
25) I	1-bromo-2...	1.799	2.070	382.1E6	408.8E6	50.000	50.000
31) I	1-bromo-2...	1.799	2.070	382.1E6	408.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.584	3.105	289.8E6	307.5E6	43.990	42.716
Spiked Amount		40.000	Range	30 - 150	Recovery	= 109.97%	106.79%
24) SA	Decachlor...	10.241	11.643f	344.0E6	221.6E6	55.402	43.394
Spiked Amount		40.000			Recovery	= 138.51%	108.48%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

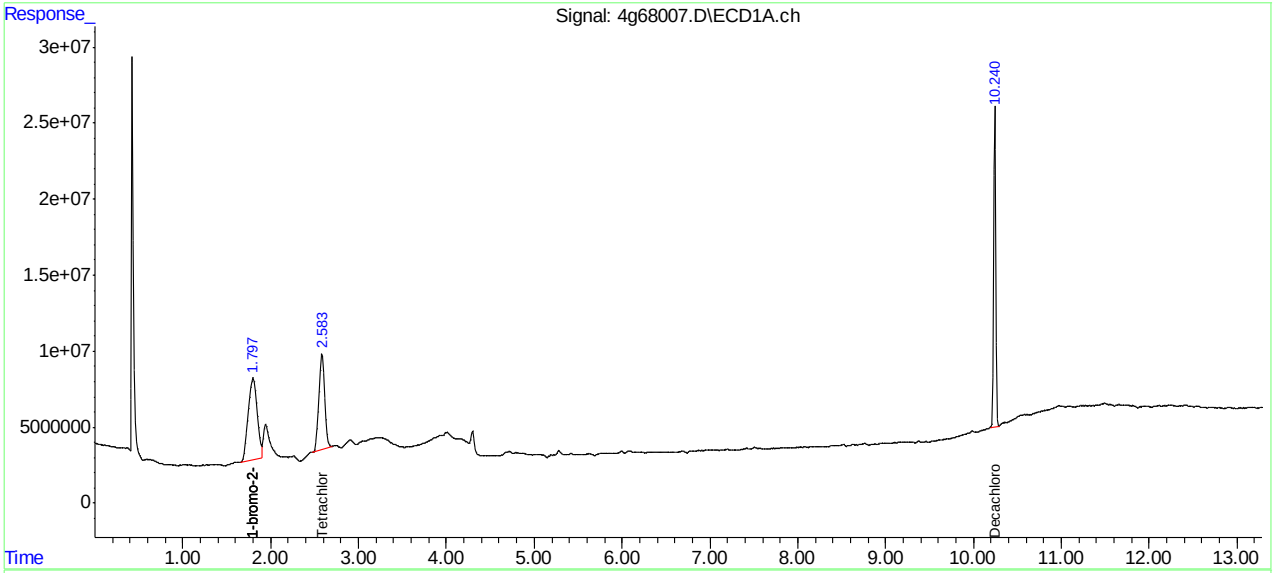
SGS ACCUTEST JC19473

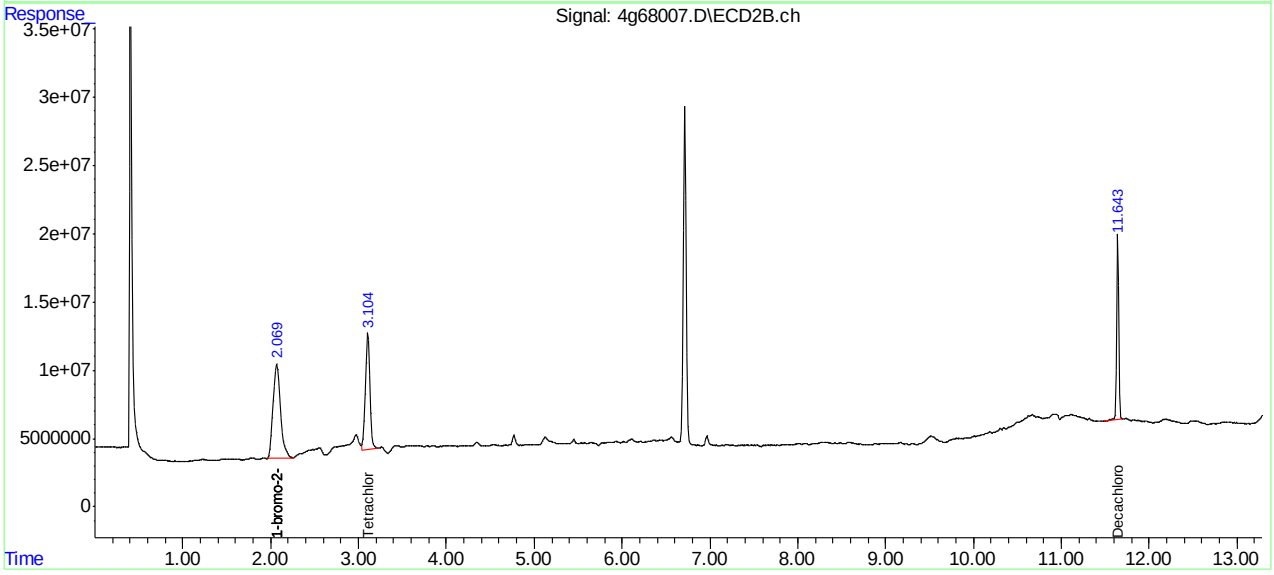
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g68007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 11:32 pm
Operator : dharas
Sample : jc19473-3
Misc : op93683,g4g1782,15.3,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:05:54 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 11:52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34621.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 12:16 pm
Operator : dharas
Sample : op93571-mb1
Misc : op93571,g6g1001,300,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 13:14:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.299	1.571	144.9E6	50783268	50.000	50.000
25) I	1-bromo-2...	1.299	1.571	144.9E6	50783268	50.000	50.000
31) I	1-bromo-2...	1.299	1.571	144.9E6	50783268	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.976	2.466	89029989	30558733	33.524	33.306
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 83.81%	83.26%
24)	SAB Decachlor...	9.905	11.750	69946554	23005834	30.290m	33.349
	Spiked Amount	40.000			Recovery	= 75.72%	83.37%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

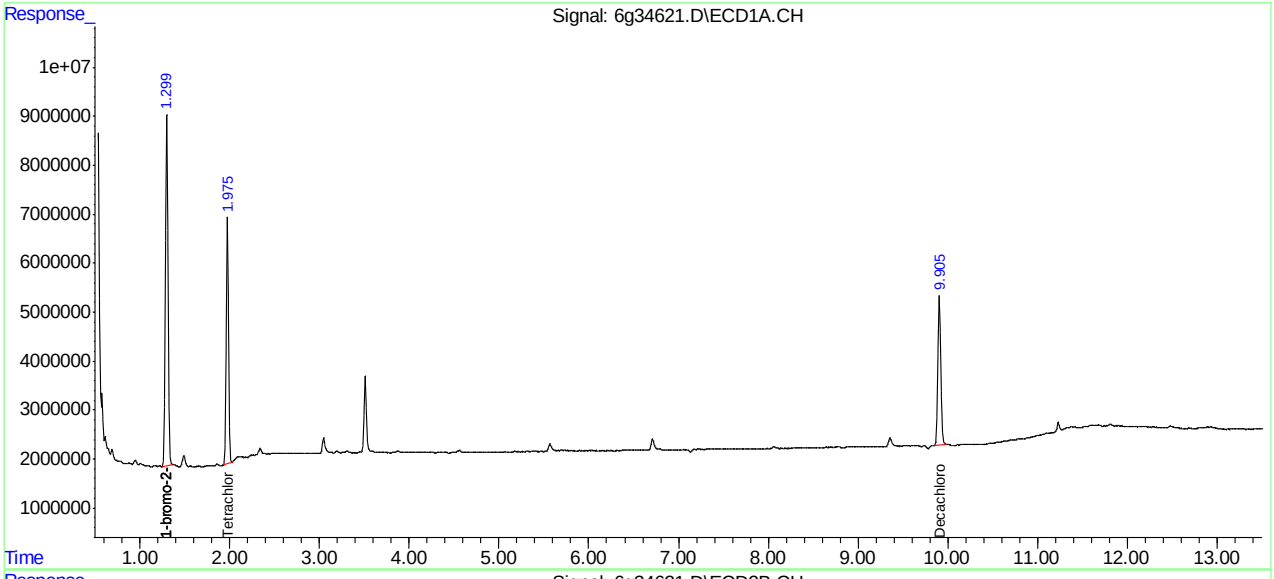
SGS ACCUTEST JC19473

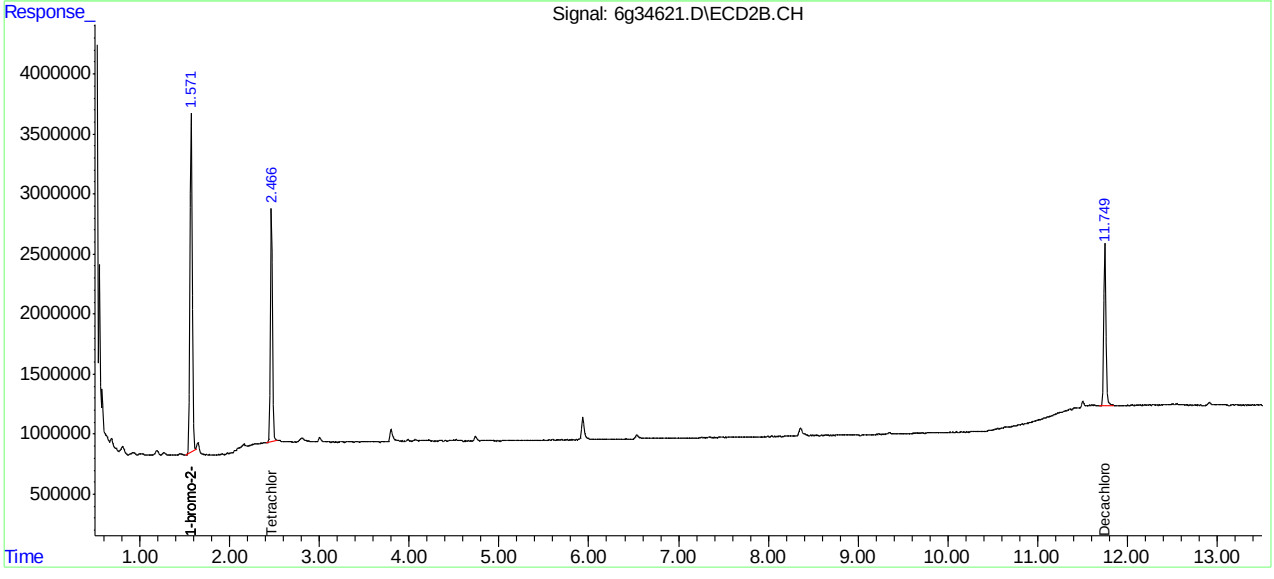
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34621.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 12:16 pm
Operator : dharas
Sample : op93571-mb1
Misc : op93571,g6g1001,300,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 13:14:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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:	OP93571-MB1	**Method:**	SW846 8081B
Lab FileID:	6G34621.D	**Analyst approved:**	05/03/16 15:03 Dhara Saparia
Injection Time:	05/03/16 12:16	**Supervisor approved:**	05/04/16 11:52 Gwendolyn Burns

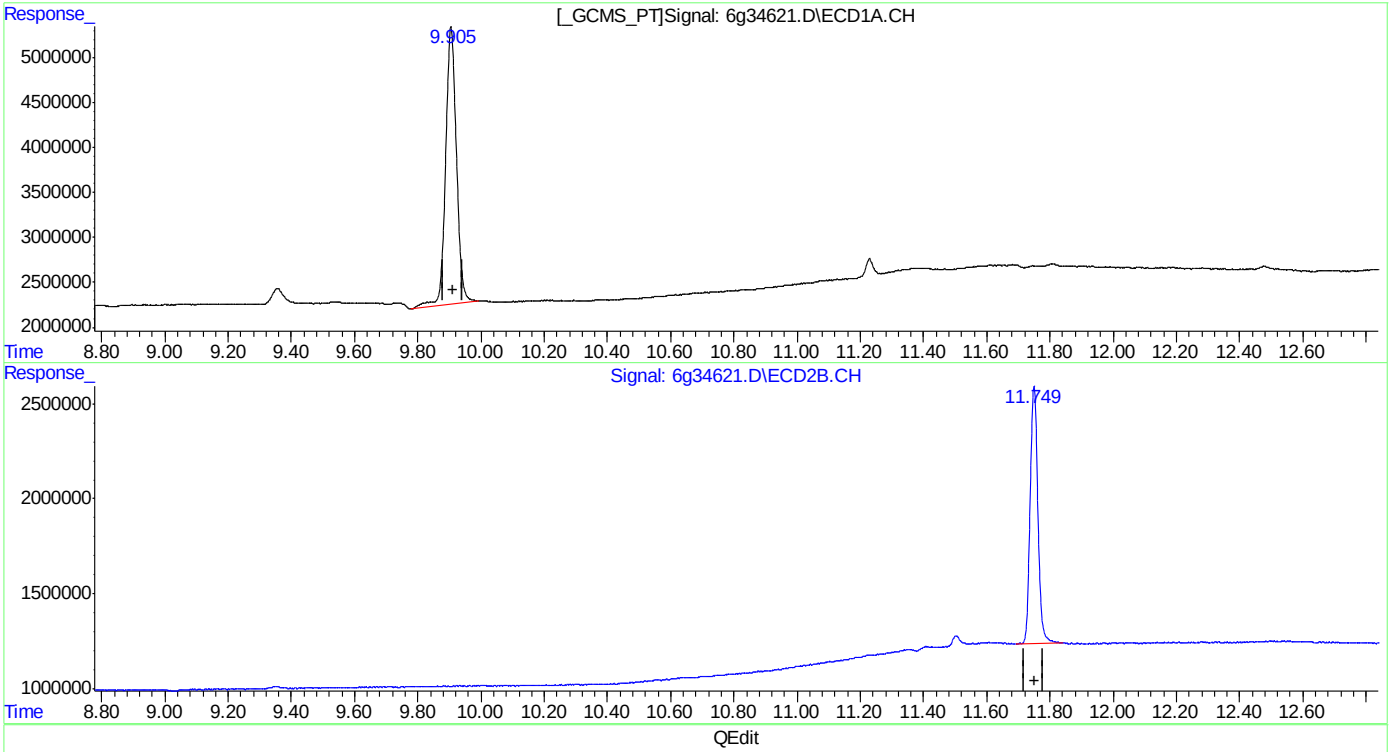
Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	1	9.90	Poor instrument integration

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34621.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 03 May 2016  12:16 pm
Operator  : dharas
Sample    : op93571-mb1
Misc      : op93571,g6g1001,300,,,2,1
ALS Vial  : 8   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 13:13:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title  : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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
```



QEdit

(24) Decachlorobiphenyl (SAB)

9.905min 31.631PPB

response 73042900

(24) Decachlorobiphenyl #2 (SAB)

11.750min 33.349PPB

response 23005834

(+) = Expected Retention Time

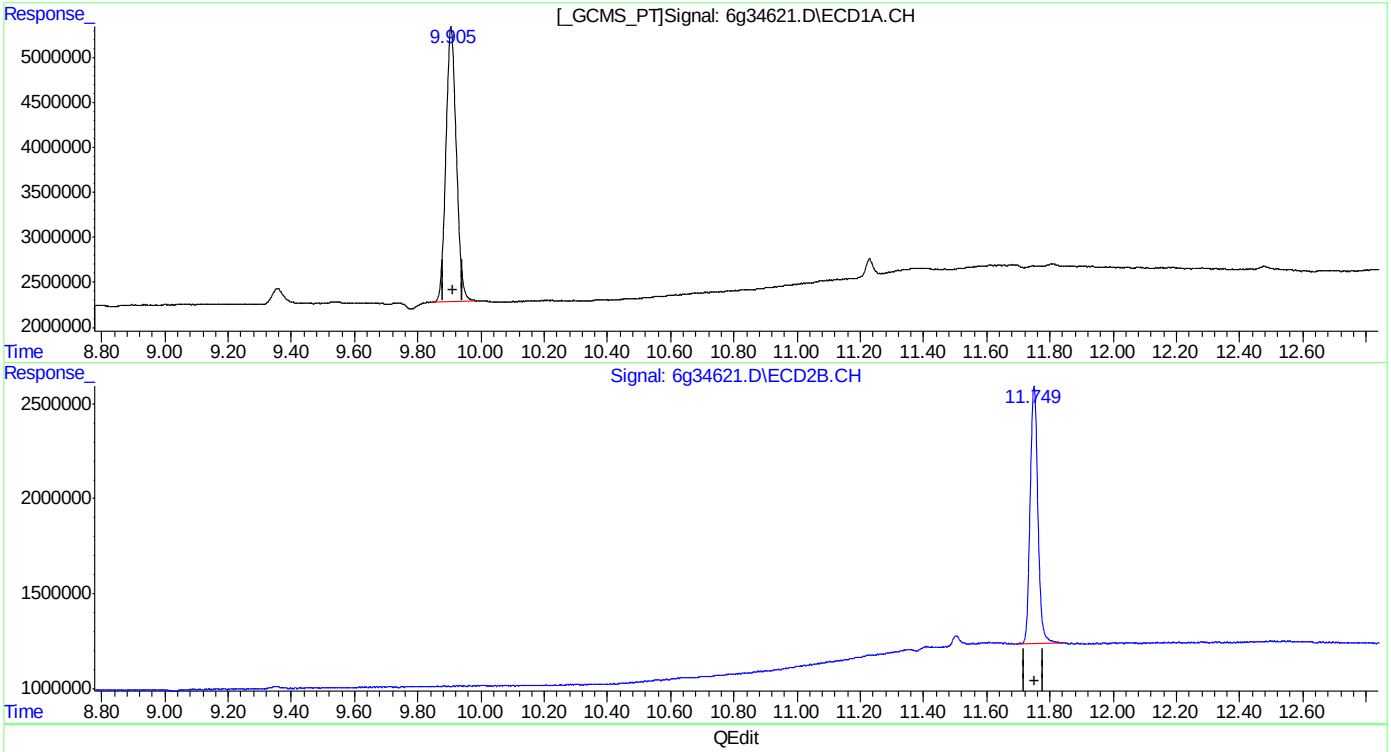
6PST987.M Tue May 03 13:13:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34621.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 12:16 pm
Operator : dharas
Sample : op93571-mb1
Misc : op93571,g6g1001,300,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 13:13:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(24) Decachlorobiphenyl (SAB)
9.905min 30.290PPB m
response 69946554

(24) Decachlorobiphenyl #2 (SAB)
11.750min 33.349PPB
response 23005834

(+) = Expected Retention Time
6PST987.M Tue May 03 13:13:54 2016

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

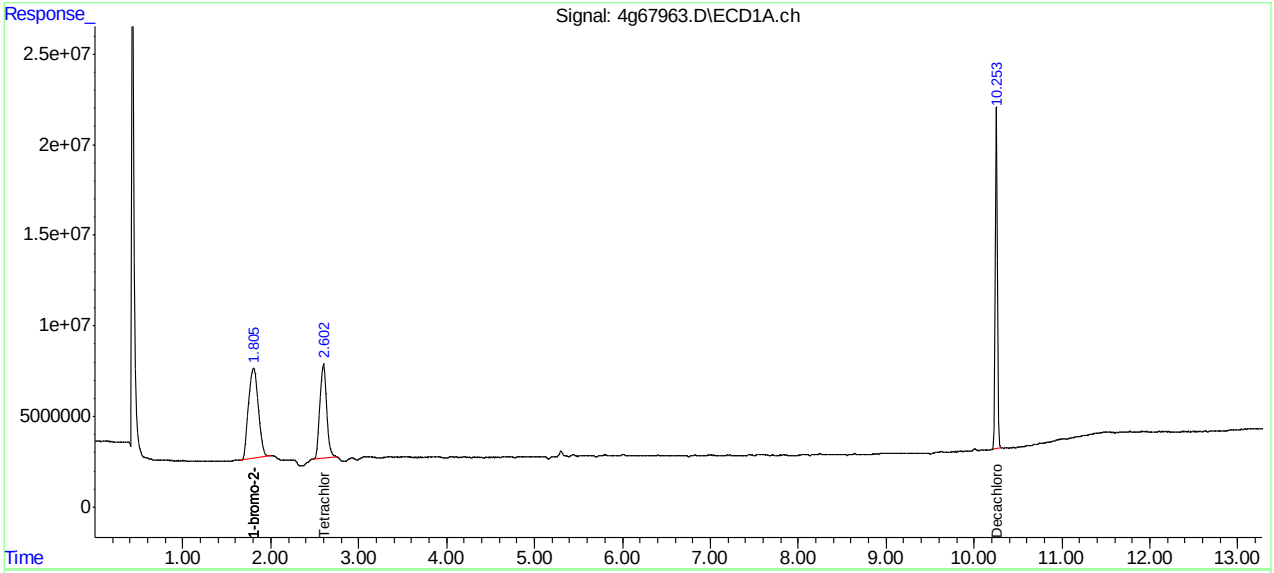
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

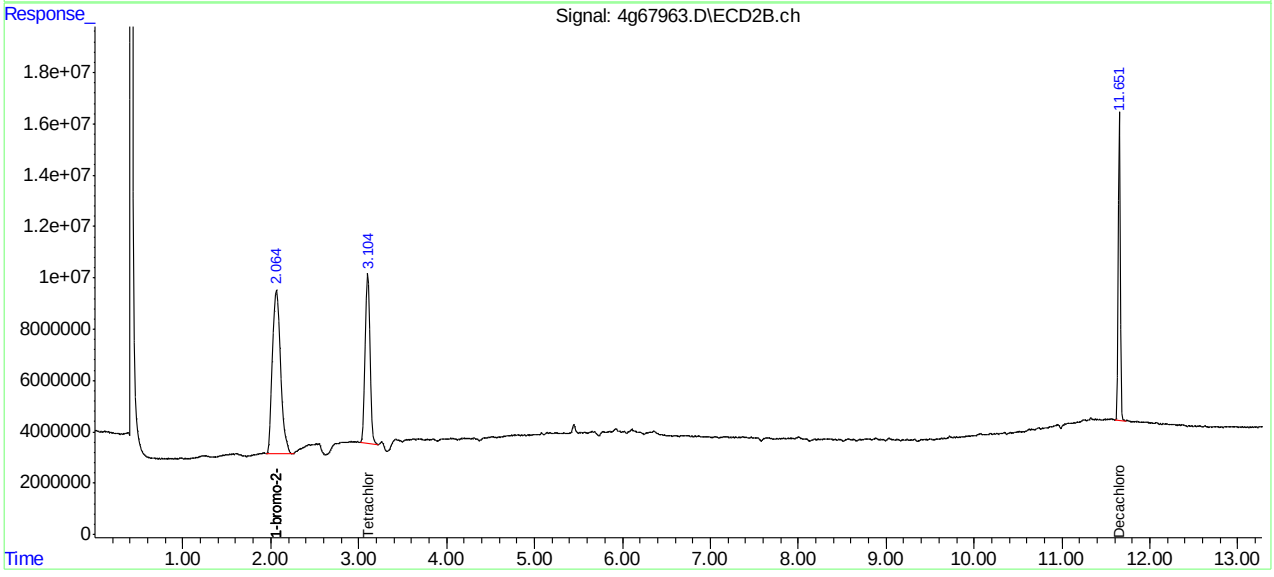
Quantitation Report (QT Reviewed)

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

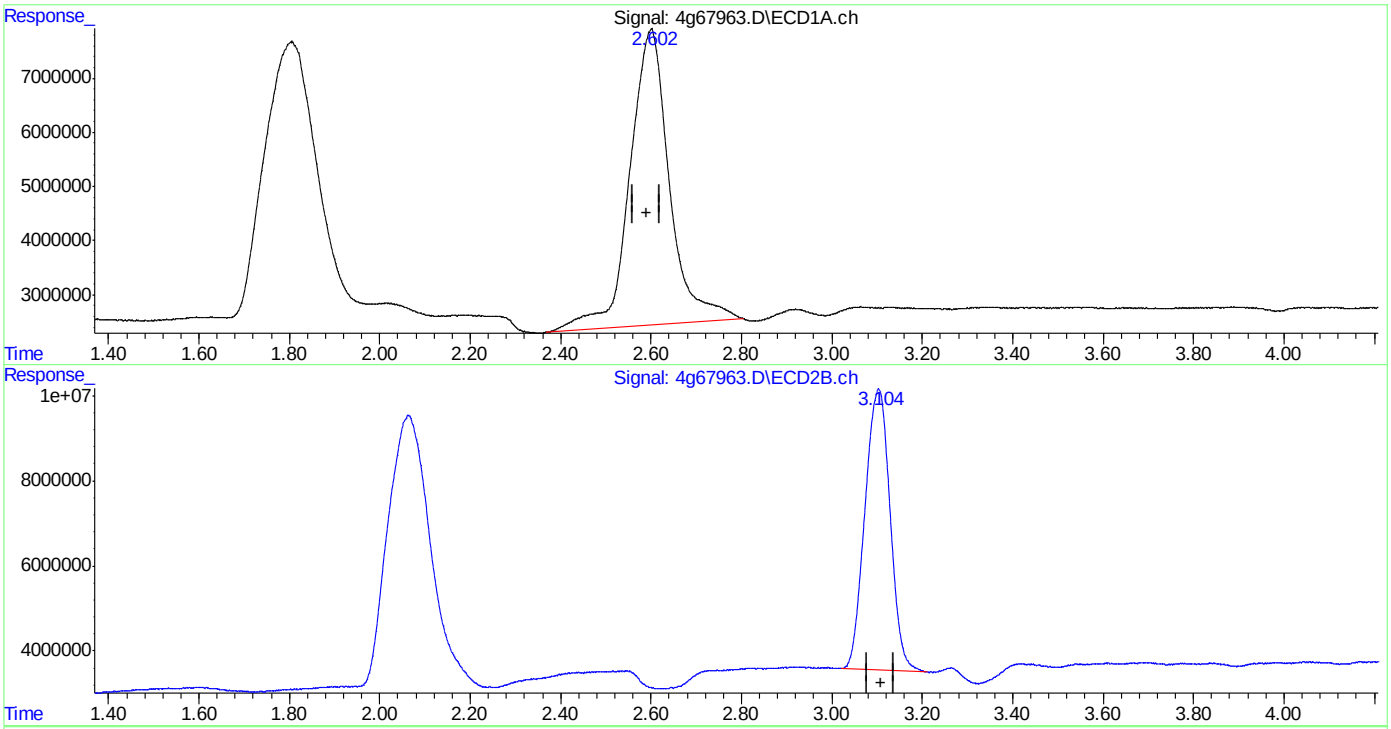
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.60	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.25	Poor instrument integration

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



QEdit

(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

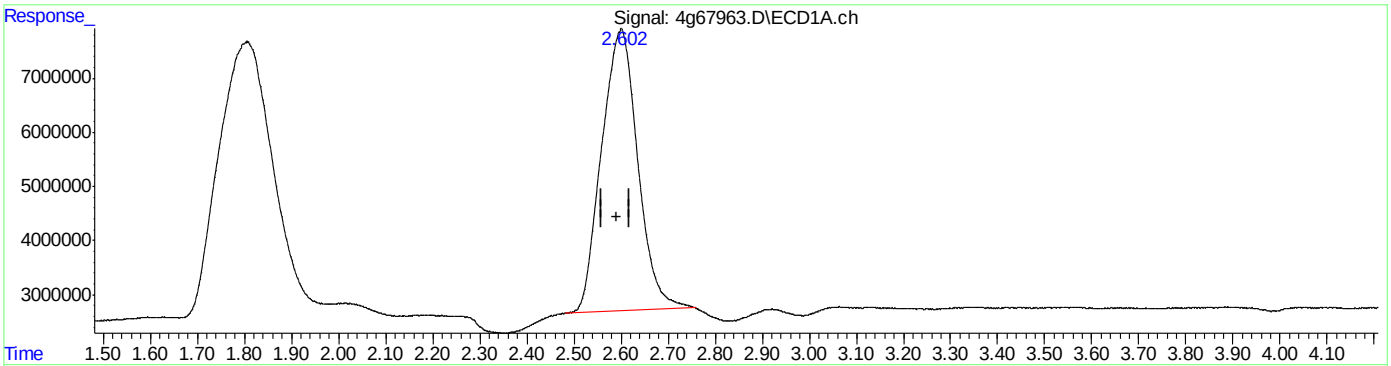
(+) = Expected Retention Time
4PST1778.M Fri May 06 11:26:08 2016 RPT1

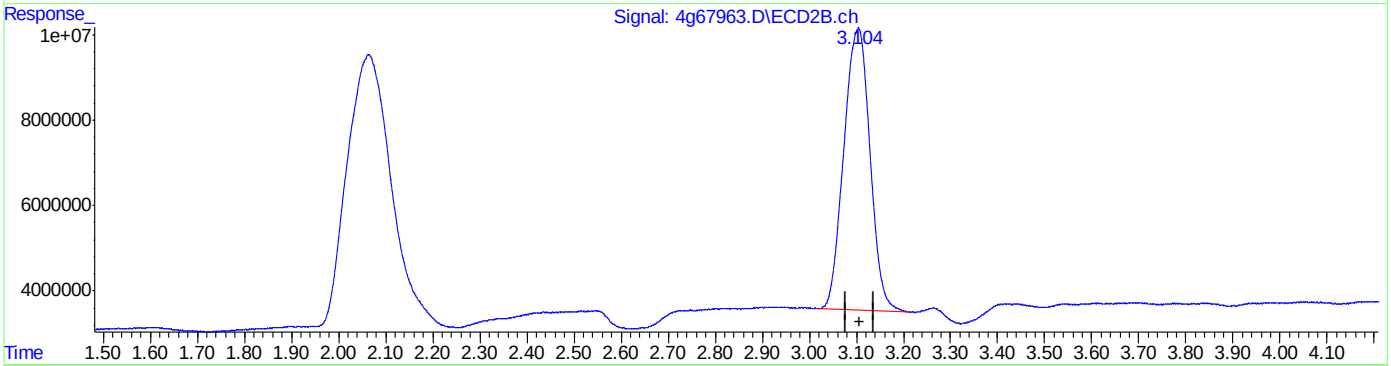
Quantitation Report (Qedit)

```
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

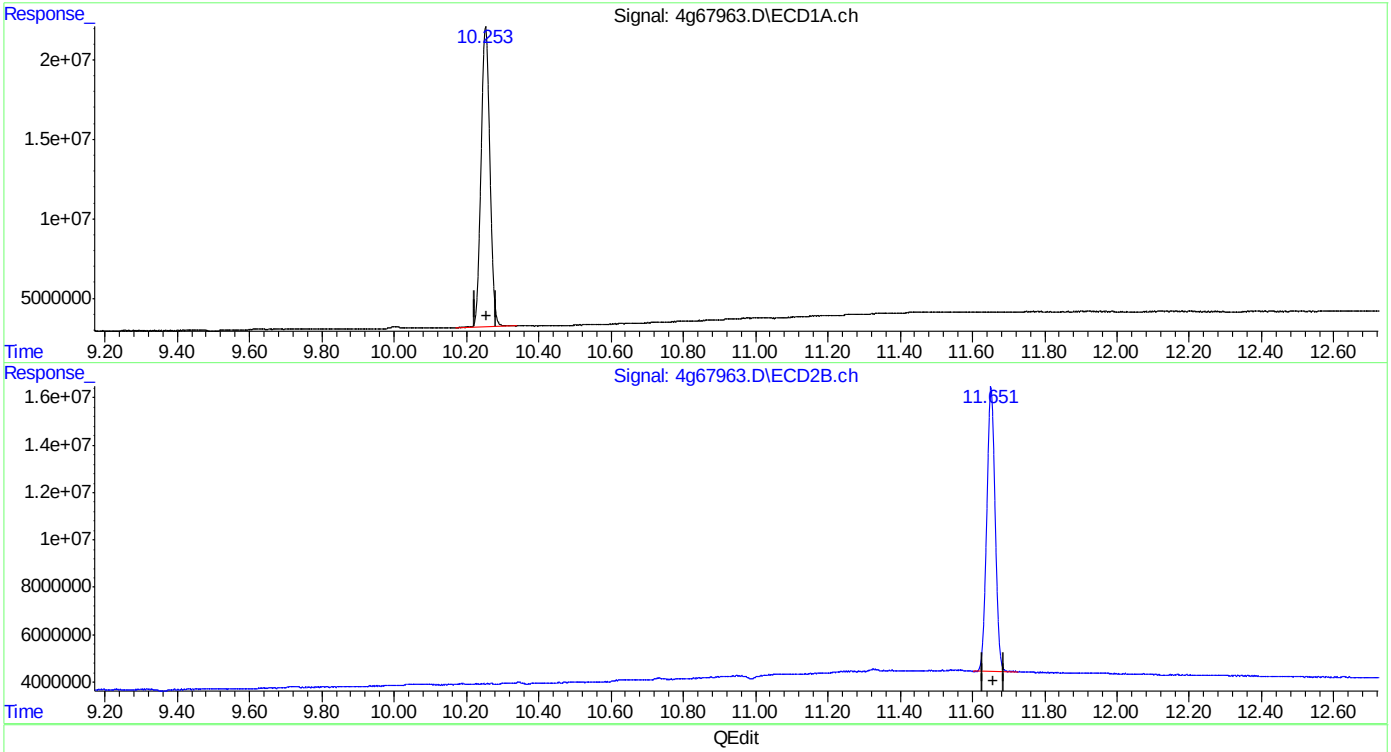
4PST1778.M Fri May 06 11:26:19 2016 RPT1

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

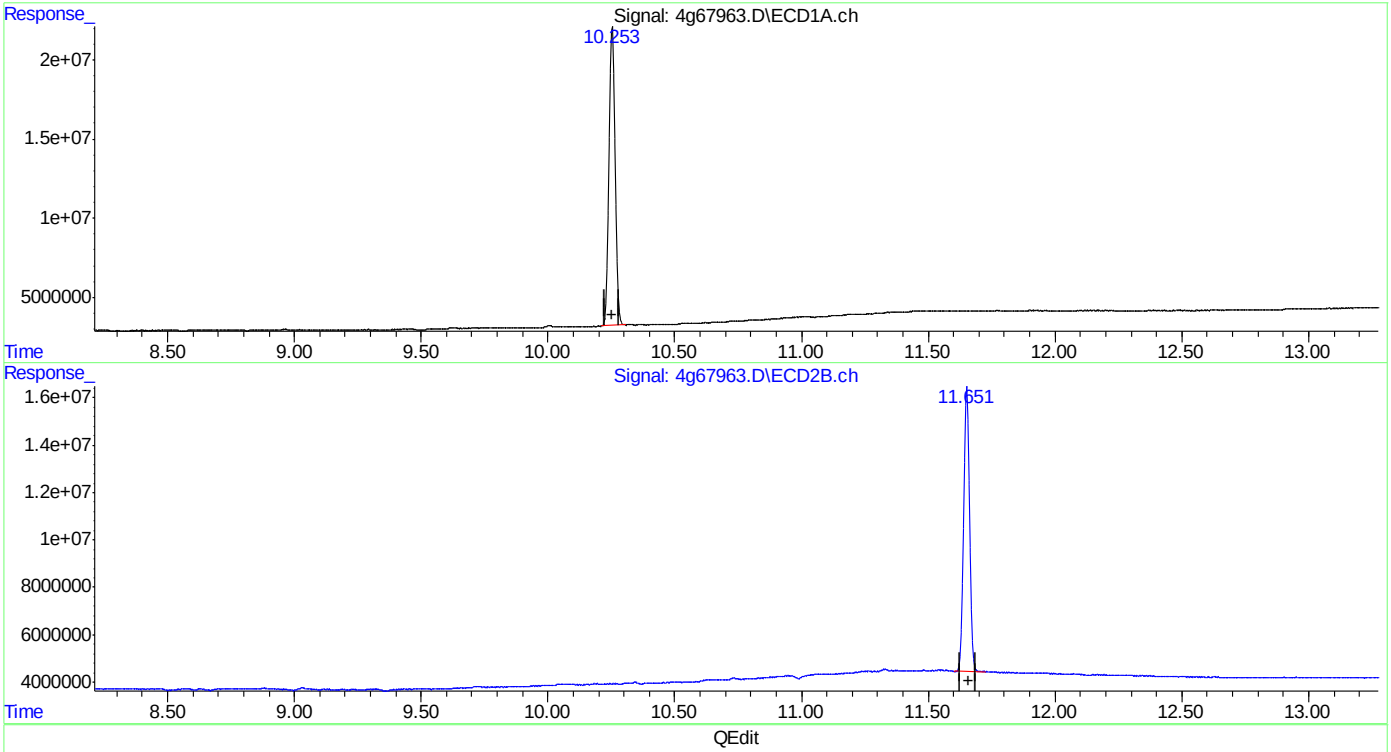
4PST1778.M Fri May 06 11:26:39 2016 RPT1

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

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34622.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 12:32 pm
Operator : dharas
Sample : op93571-bs1
Misc : op93571,g6g1001,300,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 13:16:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.300	1.571	162.0E6	55547175	50.000	50.000
25) I	1-bromo-2...	1.300	1.571	162.0E6	55547175	50.000	50.000
31) I	1-bromo-2...	1.300	1.571	162.0E6	55547175	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.977	2.466	95758008	32138912	32.247	32.025
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 80.62%	80.06%
24)	SAB Decachlor...	9.907	11.752	87458544	28044394	33.871	37.167
	Spiked Amount	40.000			Recovery	= 84.68%	92.92%
	Target Compounds						
3) A	alpha-BHC	2.490	3.169	84446787	28652420	22.060	21.914
4) MA	gamma-BHC	2.805	3.621	79832047	27174893	22.400	22.198
5) MA	Heptachlor	3.332	4.227	77951734	26441700	21.789	21.372
6) B	beta-BHC	2.884	3.713	39372564	12847804	22.506	21.541
7) B	delta-BHC	3.078	4.129	75911810	25172372	22.855	22.065
8) MB	Aldrin	3.685	4.703	70509969	24458005	21.340	21.260
9) B	Heptachlo...	4.431	5.583	70132360	23946060	22.671	22.332
10) B	gamma-Chl...	4.606	5.888	70371598	23286578	22.605	22.216
11) B	alpha-Chl...	4.787	6.131	69580758	22920405	22.521	22.010
12) A	Endosulfan I	4.969	6.230	68085825	22176566	22.322	21.920
13) B	4,4'-DDE	4.917	6.431	55916455	19807626	21.840	22.057
14) MA	Dieldrin	5.313	6.700	69548268	23016214	23.060	22.272
15) MA	Endrin	5.654	7.243	67392015	21894006	24.633	23.318
16) A	4,4'-DDD	5.803	7.461	48811514	17662695	22.551	22.791
17) B	Endosulfa...	5.994	7.627	61595132	21256976	22.819	23.148
18) MA	4,4'-DDT	6.255	8.042	52856904	16688008	22.451	23.724
19) B	Endrin Al...	6.664	8.255	56996389	17055899	25.905	22.907
20) B	Endosulfa...	7.403	8.769	57518616	18817289	24.264	23.285
21) A	Methoxychlor	7.118	9.421	33333715	9448745	23.623	24.379
23) B	Endrin Ke...	7.875	9.816	68456929	22365735	24.284	23.678

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

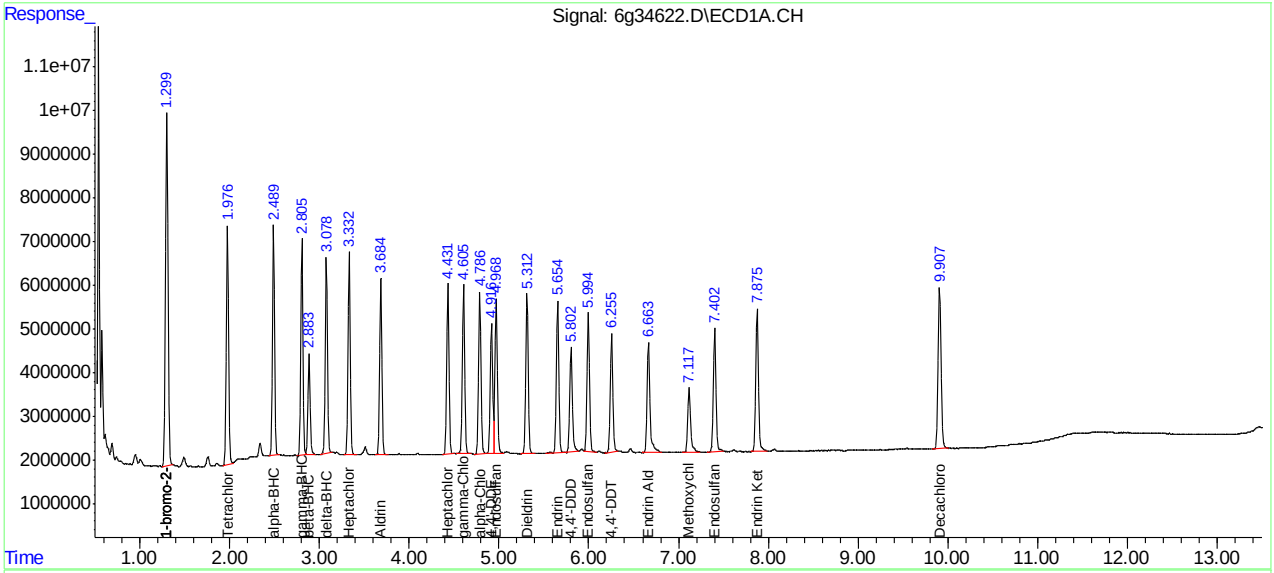
SGS ACCUTEST JC19473

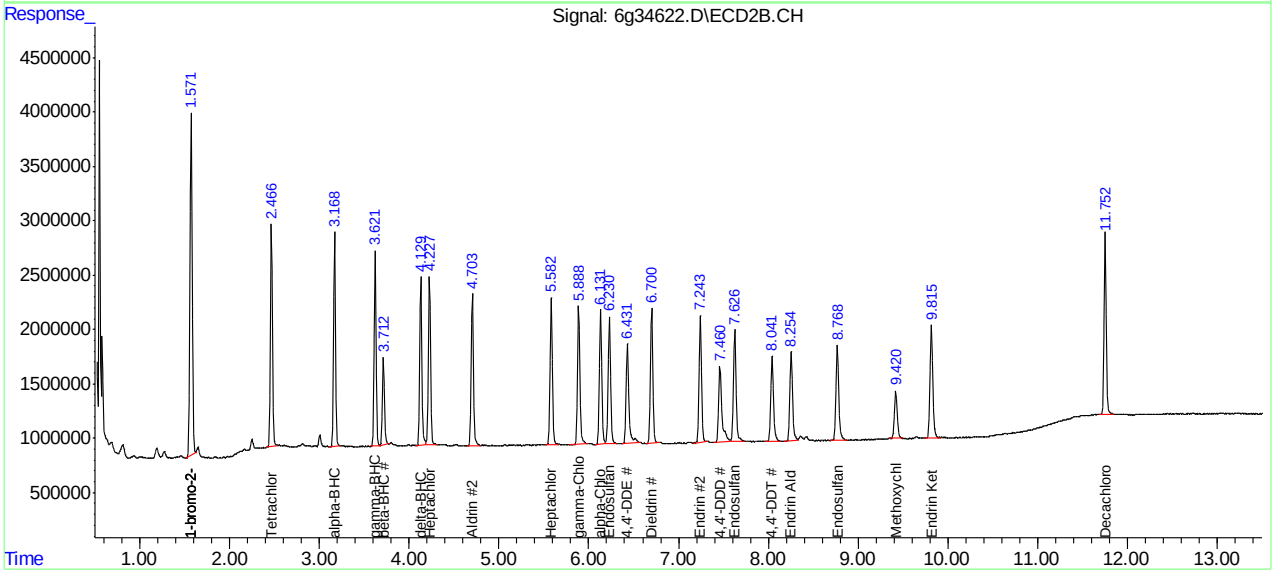
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34622.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 12:32 pm
Operator : dharas
Sample : op93571-bs1
Misc : op93571,g6g1001,300,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 13:16:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 : 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

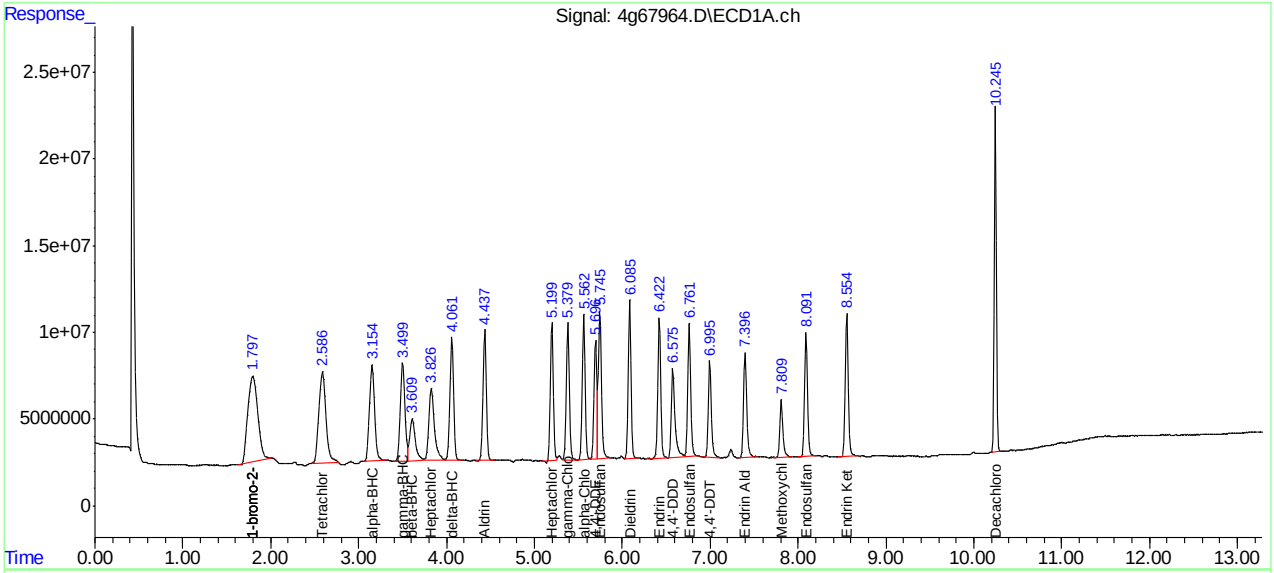
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

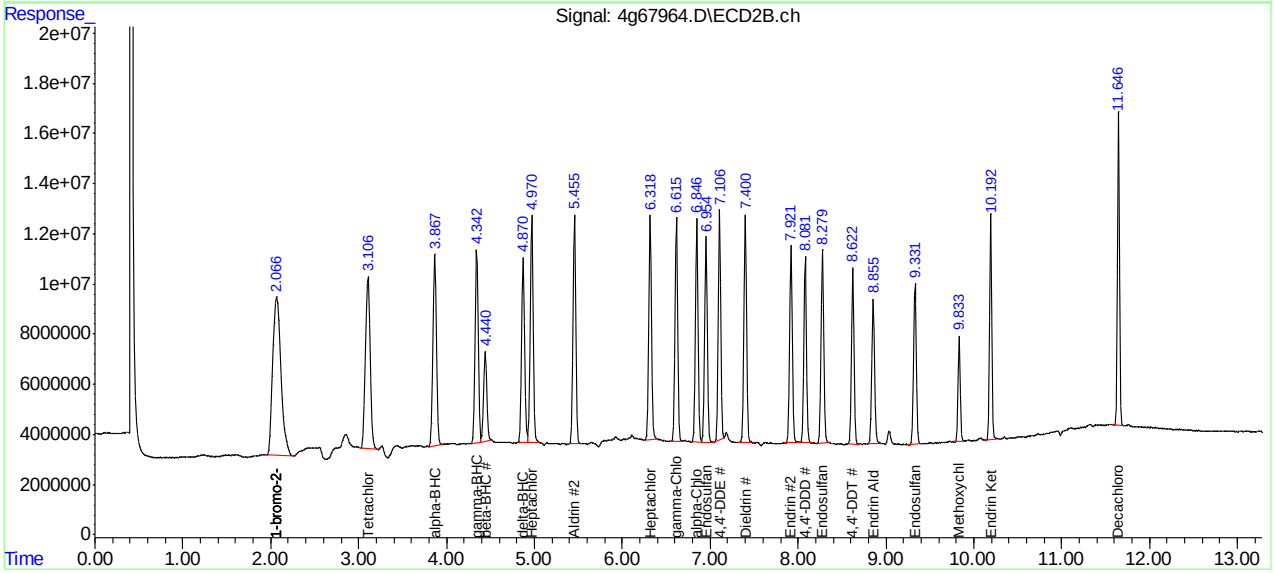
Quantitation Report (QT Reviewed)

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





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

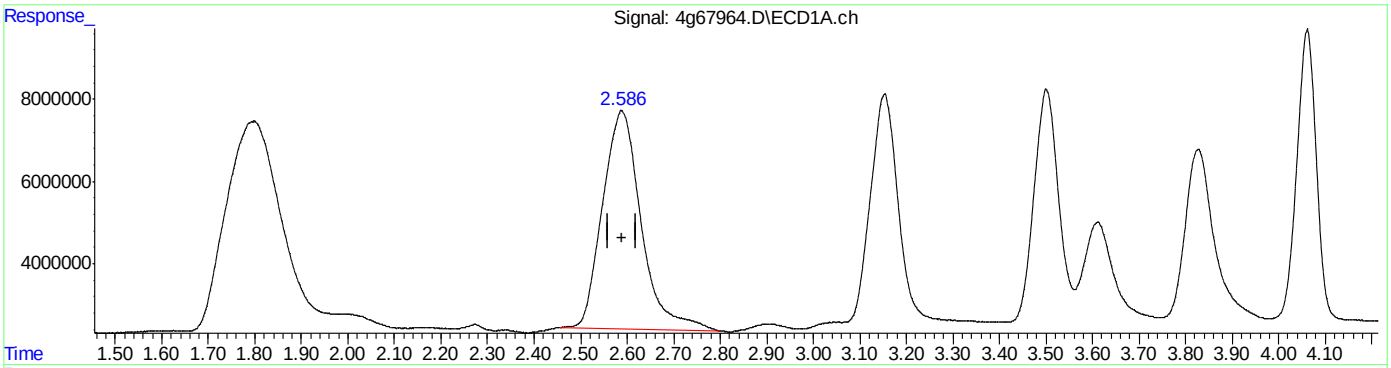
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
alpha-BHC	319-84-6	1	3.15	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.24	Poor instrument integration

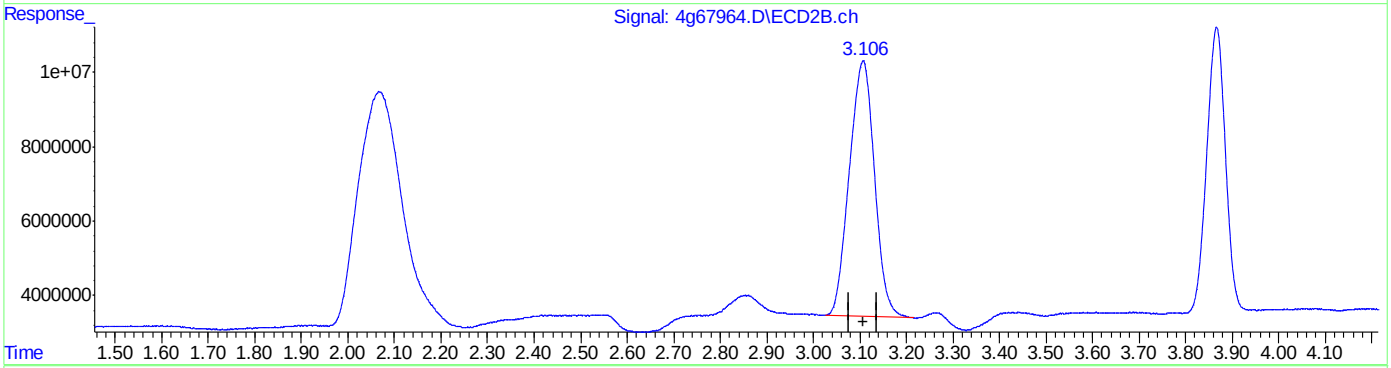
Quantitation Report (Qedit)

```
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

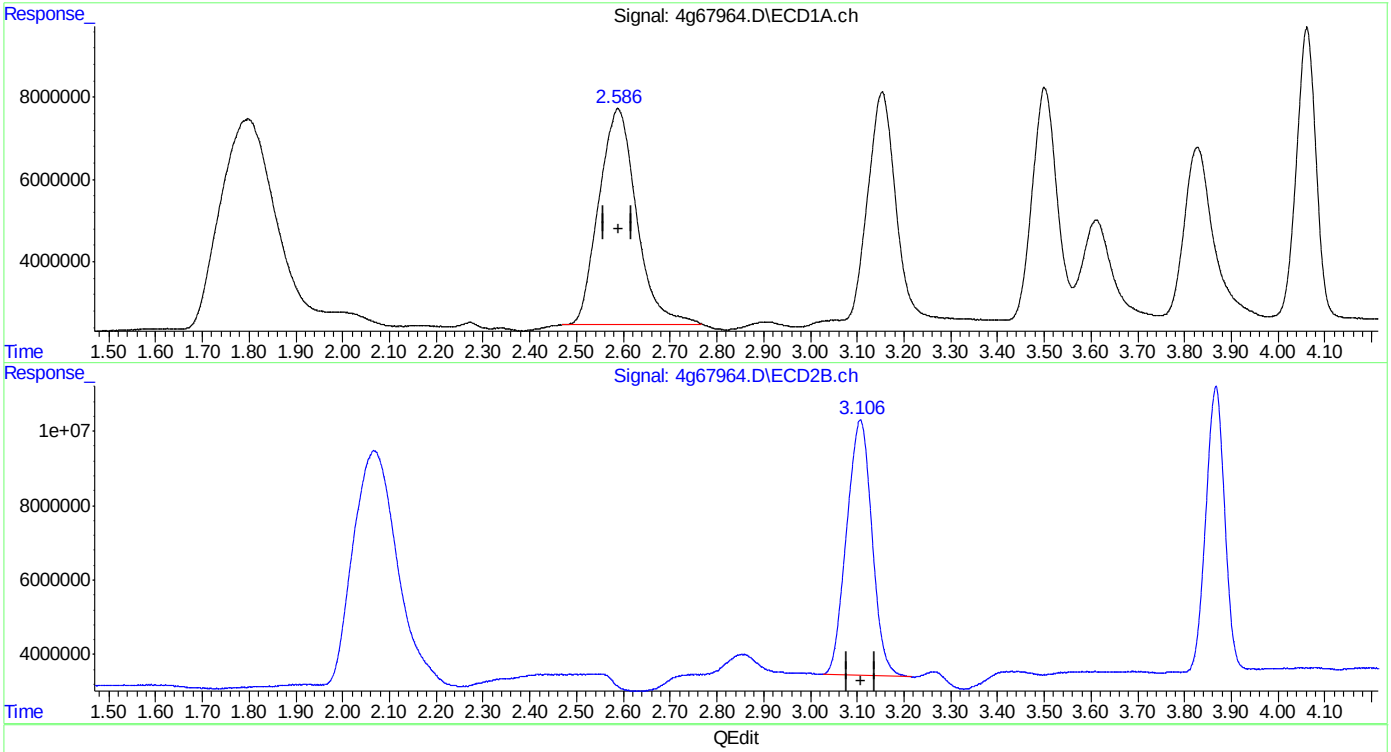
SGS ACCUTEST JC19473

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

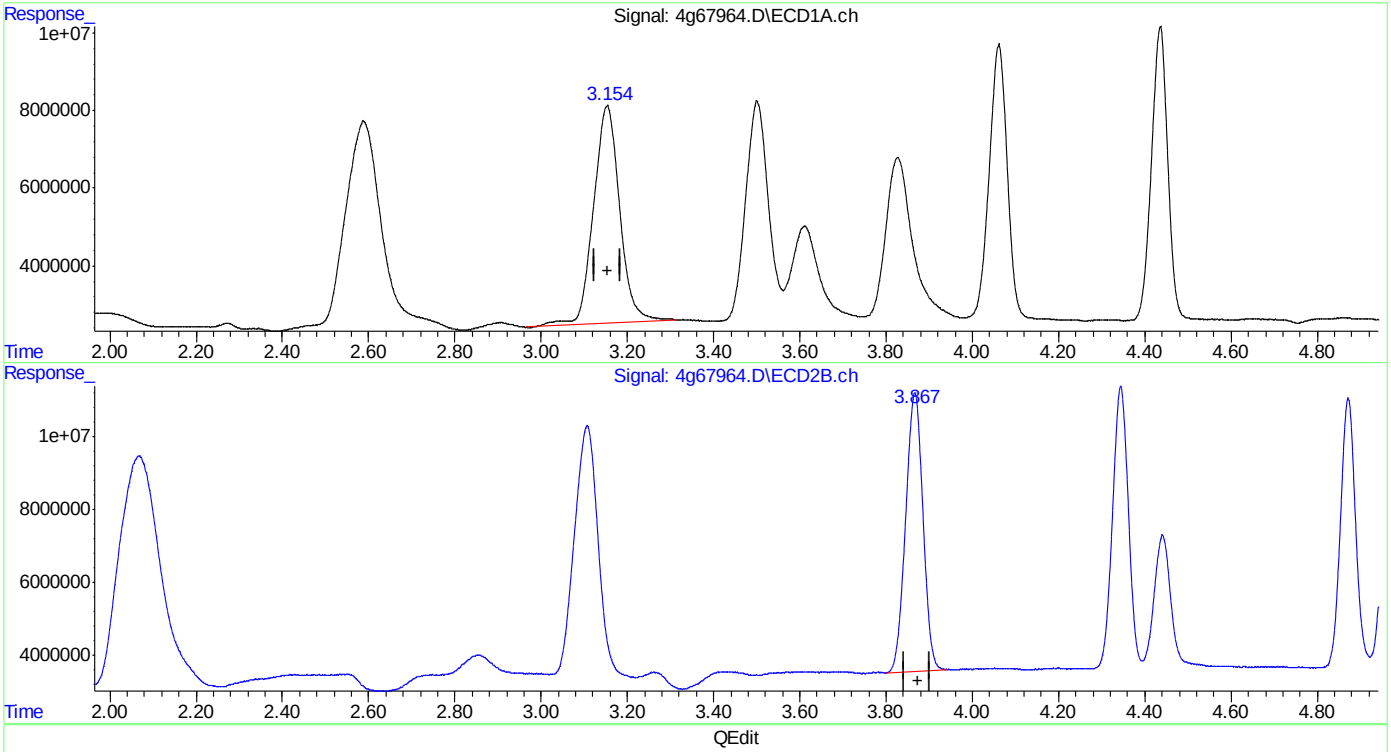
SGS ACCUTEST JC19473

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

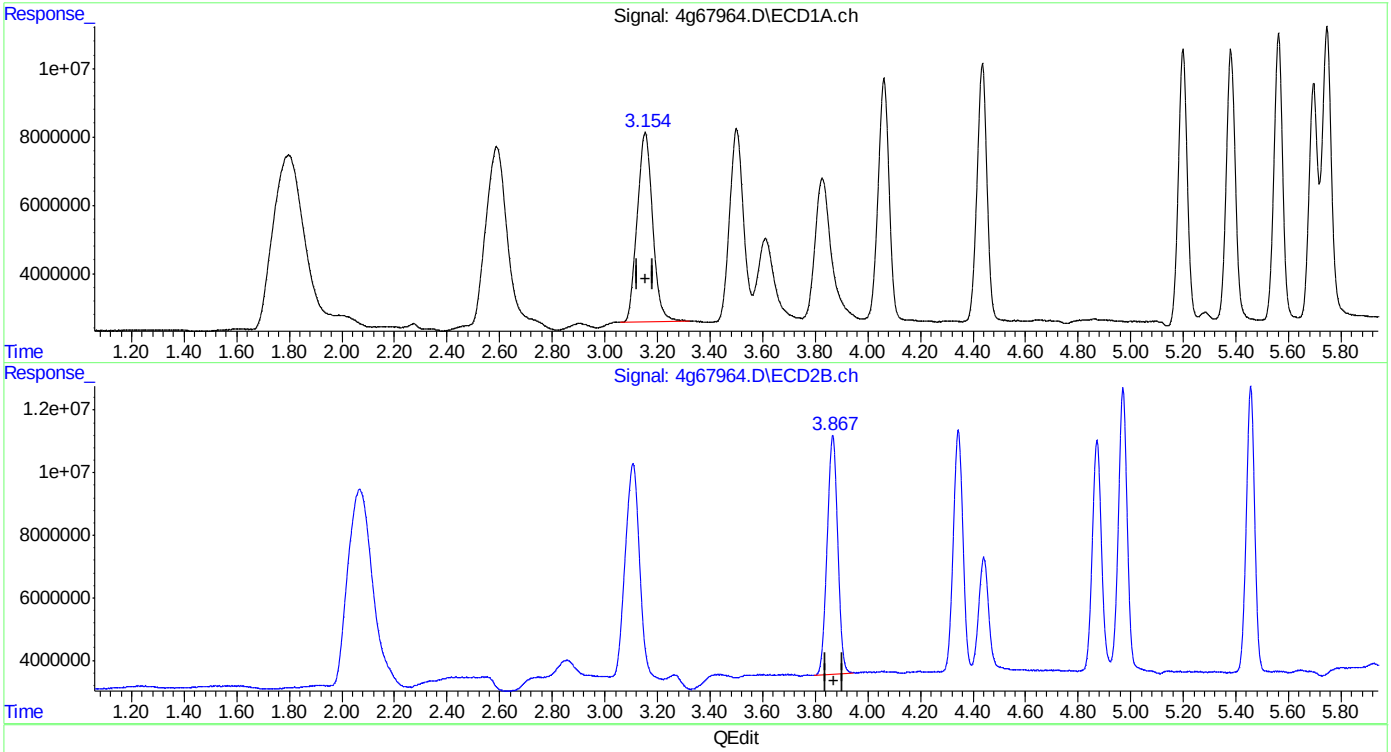
(+) = Expected Retention Time
4PST1778.M Fri May 06 11:46:42 2016 RPT1

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

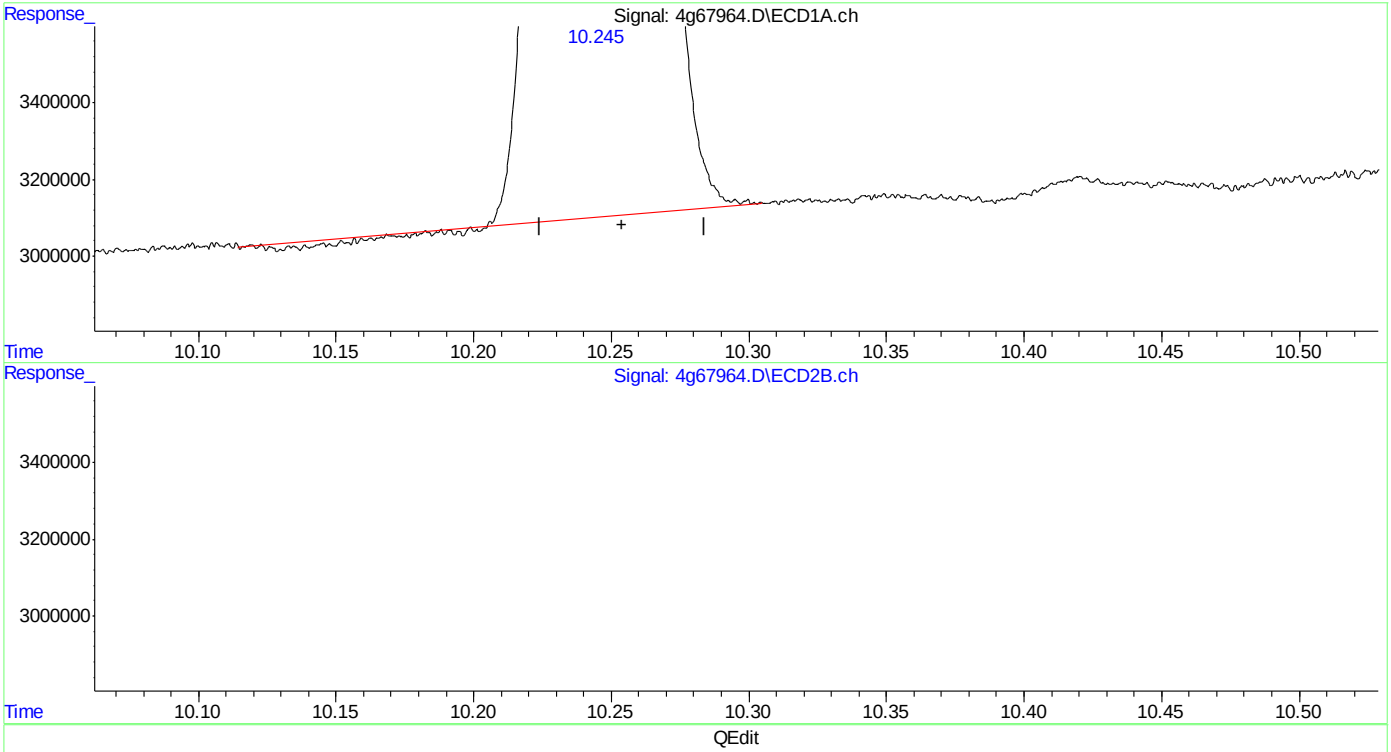
(+) = Expected Retention Time
4PST1778.M Fri May 06 11:46:50 2016 RPT1

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

4PST1778.M Fri May 06 11:47:13 2016 RPT1

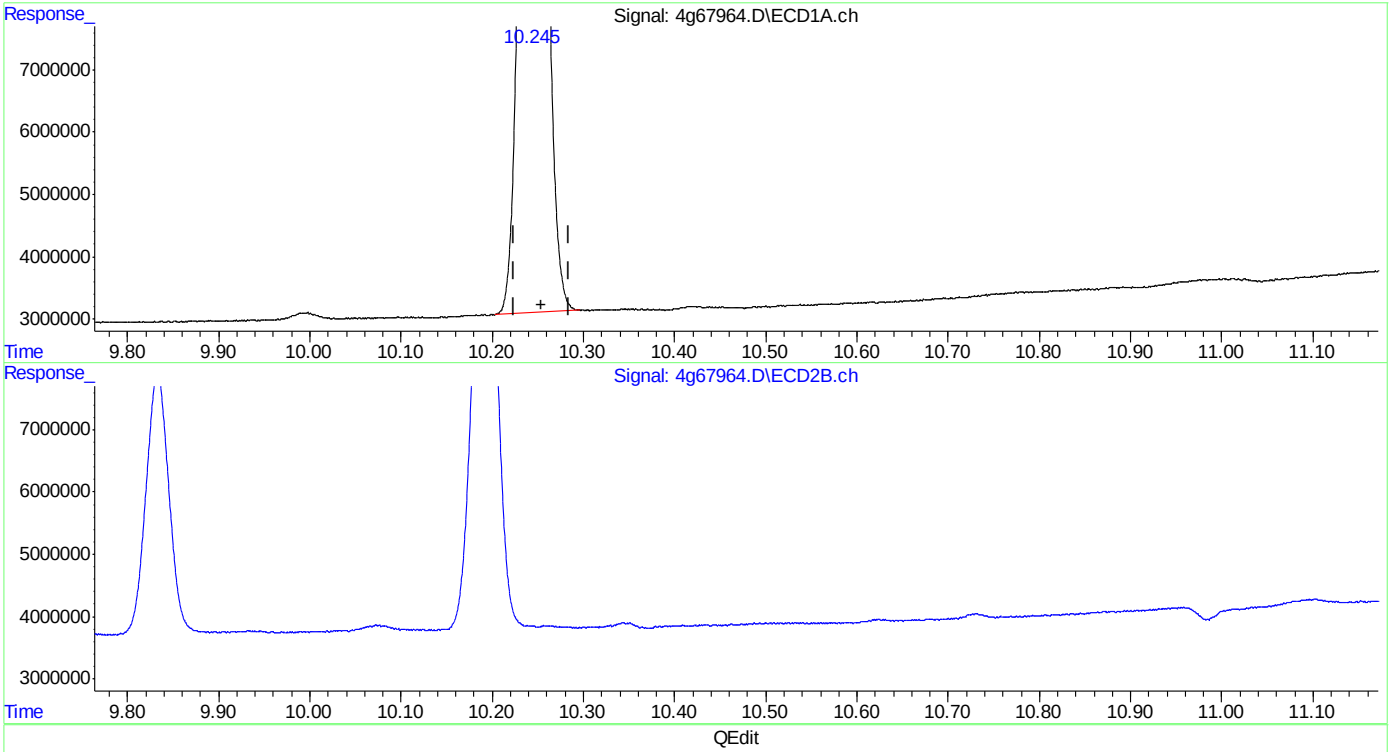
SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34665.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 12:45 am
Operator : dharas
Sample : op93571-ms
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:51:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.301	1.572	161.6E6	59725646	50.000	50.000
25) I	1-bromo-2...	1.301	1.572	161.6E6	59725646	50.000	50.000
31) I	1-bromo-2...	1.301	1.572	161.6E6	59725646	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.979	2.467	89596820	34095958	30.256	31.598
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 75.64%	78.99%
24)	SAB Decachlor...	9.906	11.746	106.2E6	34690642	41.233	42.758
	Spiked Amount	40.000			Recovery	= 103.08%	106.90%
	Target Compounds						
3) A	alpha-BHC	2.490	3.169	95529089	32634144	25.024	23.213
4) MA	gamma-BHC	2.806	3.622	93582299	29189332	26.331	22.176
5) MA	Heptachlor	3.333	4.227	78848768	25932597	22.101	19.494
6) B	beta-BHC	2.886	3.713	42959071	14575304	24.624	22.727
7) B	delta-BHC	3.079	4.129	86676465	29771991	26.168	24.271
8) MB	Aldrin	3.684	4.703	73758832	25650863	22.385	20.737
9) B	Heptachlo...	4.431	5.583	78368904	27025024	25.404	23.440
10) B	gamma-Chl...	4.606	5.888	77526312	25791861	24.973	22.884
11) B	alpha-Chl...	4.787	6.132	75627691	25214164	24.545	22.518
12) A	Endosulfan I	4.969	6.230	74529848	24790824	24.502	22.790
13) B	4,4'-DDE	4.916	6.430	59420068	19586056	23.273	20.285
14) MA	Dieldrin	5.313	6.700	77671722	25958933	25.825	23.362
15) MA	Endrin	5.653	7.243	75843170	24390638	27.798	24.160
16) A	4,4'-DDD	5.803	7.460	60419784	21191435	27.992	25.431
17) B	Endosulfa...	5.995	7.625	71009728	24223346	26.379	24.532
18) MA	4,4'-DDT	6.254	8.041	47102177	14771931	20.062	19.531
19) B	Endrin Al...	6.664	8.253	11665862	4196938	5.317	5.242
20) B	Endosulfa...	7.401	8.768	66079115	22144336	27.952	25.485
21) A	Methoxychlor	7.116	9.418	34111909	9430569	24.241	22.629
23) B	Endrin Ke...	7.874	9.815	79440642	25918821	28.258	25.520

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

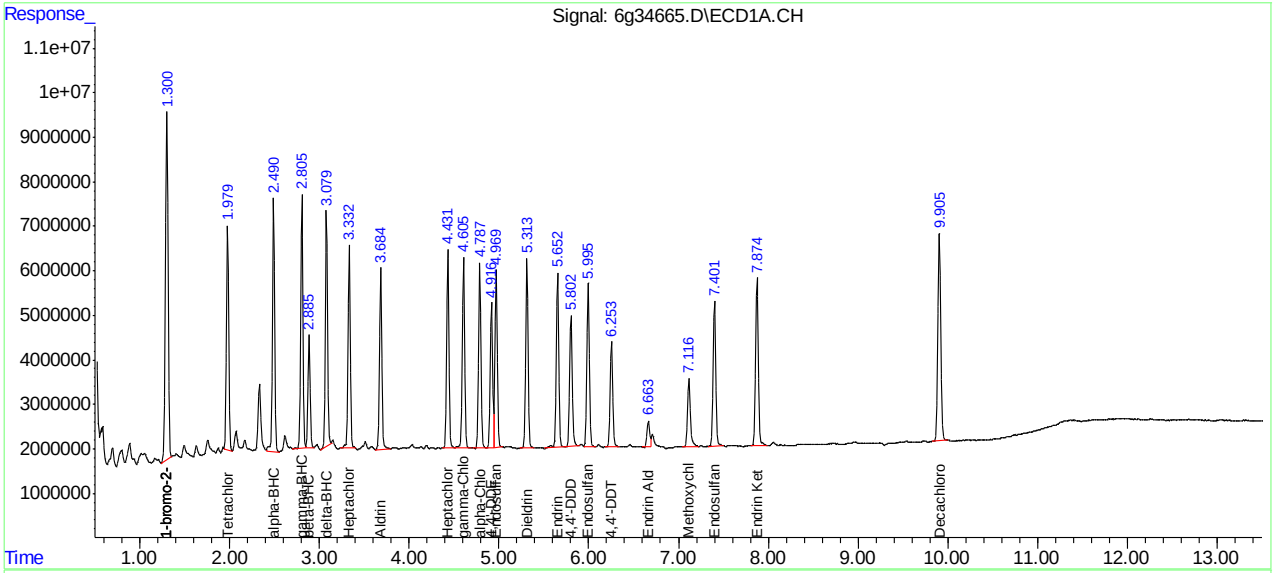
SGS ACCUTEST JC19473

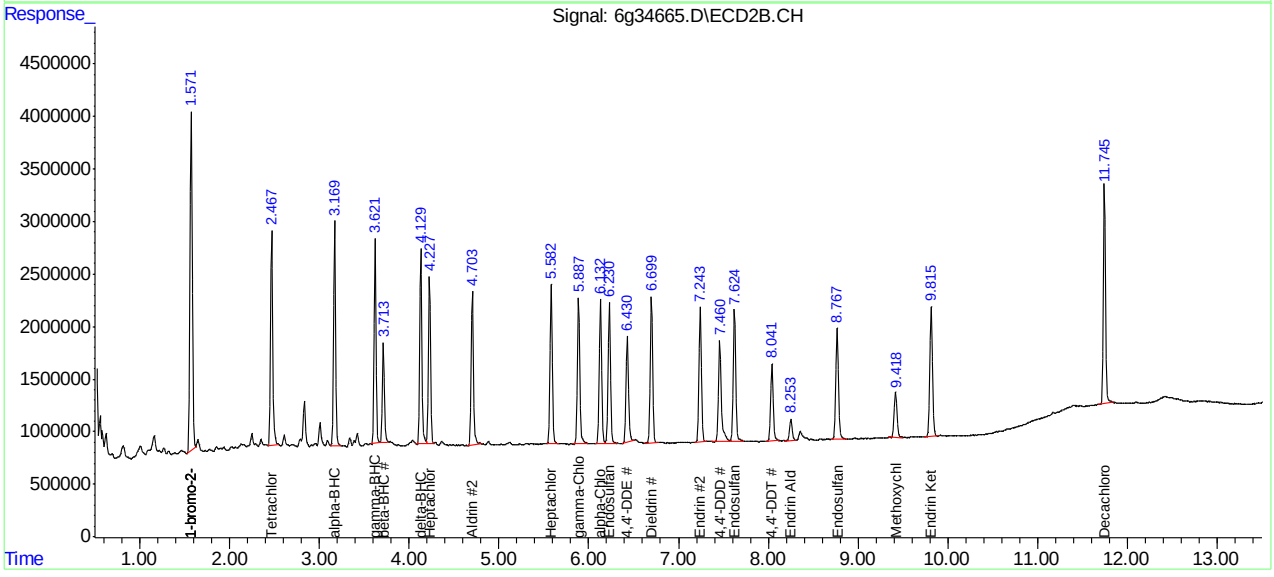
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34665.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 12:45 am
Operator : dharas
Sample : op93571-ms
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:51:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 14:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 1:01 am
Operator : dharas
Sample : op93571-msd
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:53:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.301	1.572	139.8E6	52527659	50.000	50.000
25) I	1-bromo-2...	1.301	1.572	139.8E6	52527659	50.000	50.000
31) I	1-bromo-2...	1.301	1.572	139.8E6	52527659	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.979	2.468	100.2E6	38089376	39.087	40.136
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 97.72%	100.34%
24)	SAB Decachlor...	9.905	11.745	114.2E6	36243553	51.247	50.794
	Spiked Amount	40.000			Recovery	= 128.12%	126.98%
	Target Compounds						
3) A	alpha-BHC	2.491	3.170	105.4E6	35719424	31.899	28.890
4) MA	gamma-BHC	2.806	3.621	103.0E6	31746309	33.471m	27.423
5) MA	Heptachlor	3.332	4.227	85558305	28611262	27.709m	24.455
6) B	beta-BHC	2.886	3.713	46104715	15728504	30.535	27.886
7) B	delta-BHC	3.079	4.130	99753183	32719589	34.797	30.329
8) MB	Aldrin	3.685	4.703	83076024	28668954	29.132	26.353
9) B	Heptachlo...	4.431	5.582	84793482	29519976	31.759m	29.113
10) B	gamma-Chl...	4.606	5.888	86275909	28395180	32.111	28.646
11) B	alpha-Chl...	4.786	6.131	82128844	27367020	30.799	27.790
12) A	Endosulfan I	4.970	6.229	80516961	26623508	30.585	27.828
13) B	4,4'-DDE	4.917	6.430	68374026	22312279	30.942	26.275
14) MA	Dieldrin	5.313	6.699	84586992	28126885	32.496	28.782
15) MA	Endrin	5.653	7.242	80364868	26561138	34.034	29.915
16) A	4,4'-DDD	5.802	7.459	66397904	23245960	35.543	31.720
17) B	Endosulfa...	5.995	7.625	76985368	26269268	33.044	30.250
18) MA	4,4'-DDT	6.253	8.040	55434848	17067118	27.281	25.658
19) B	Endrin Al...	6.665	8.253	14049213	4784437	7.398m	6.795
20) B	Endosulfa...	7.400	8.767	72836739	23987407	35.599	31.389
21) A	Methoxychlor	7.115	9.418	37329142	10513744	30.651	28.686
23) B	Endrin Ke...	7.874	9.815	86891440	28477120	35.713	31.881

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

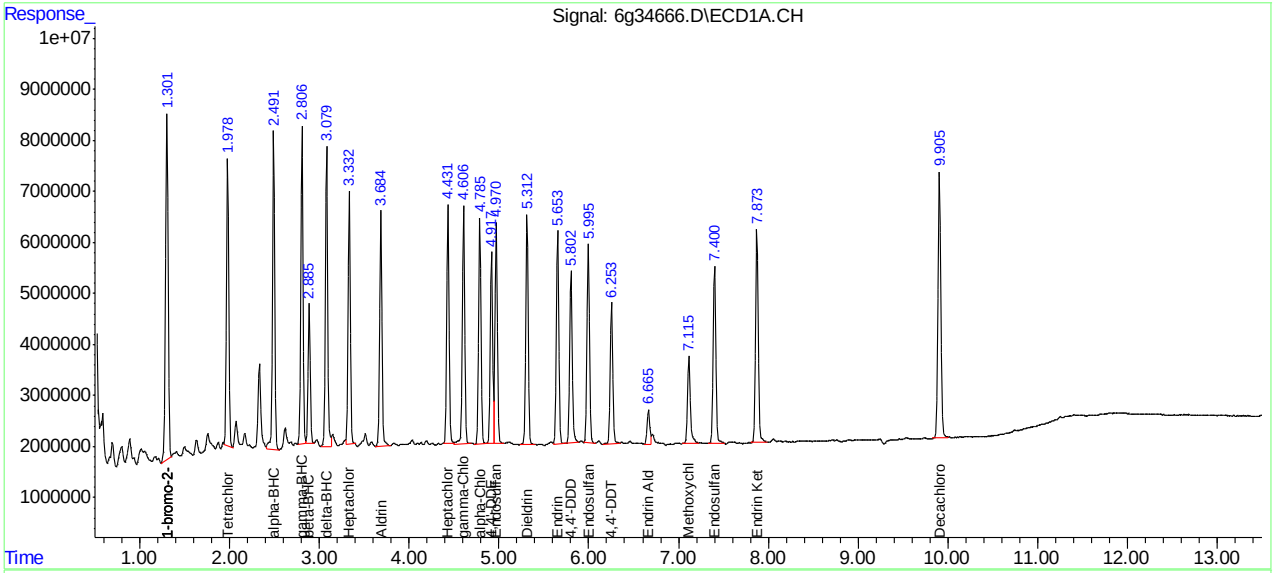
SGS ACCUTEST JC19473

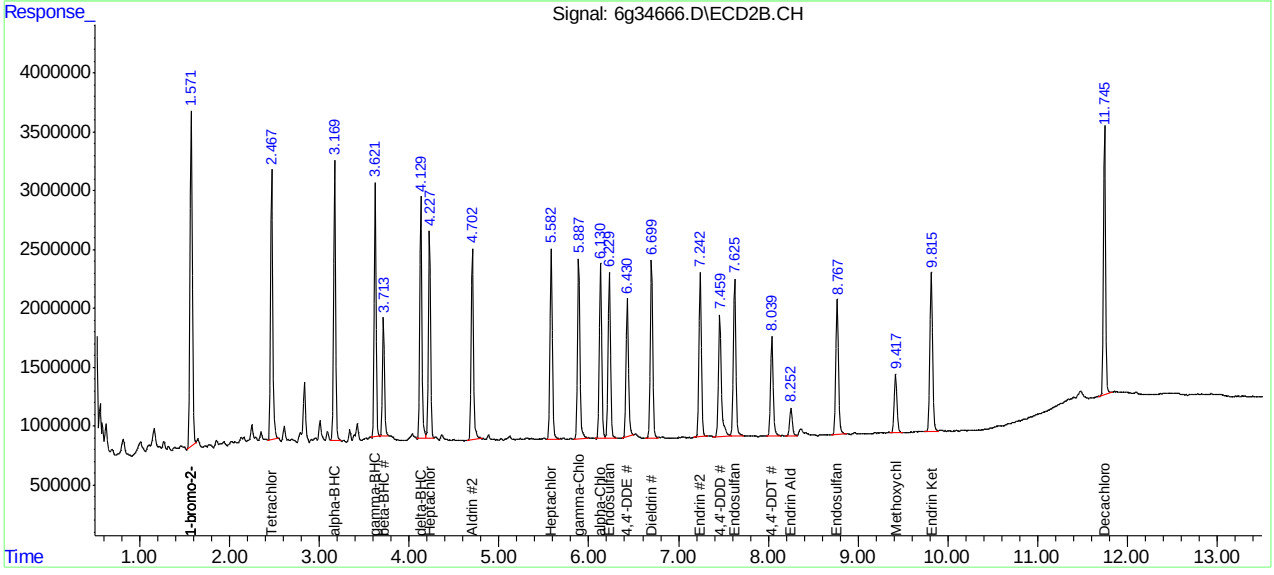
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 1:01 am
Operator : dharas
Sample : op93571-msd
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:53:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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:	OP93571-MSD	**Method:**	SW846 8081B
Lab FileID:	6G34666.D	**Analyst approved:**	05/04/16 13:03 Dhara Saparia
Injection Time:	05/04/16 01:01	**Supervisor approved:**	05/04/16 14:35 Gwendolyn Burns

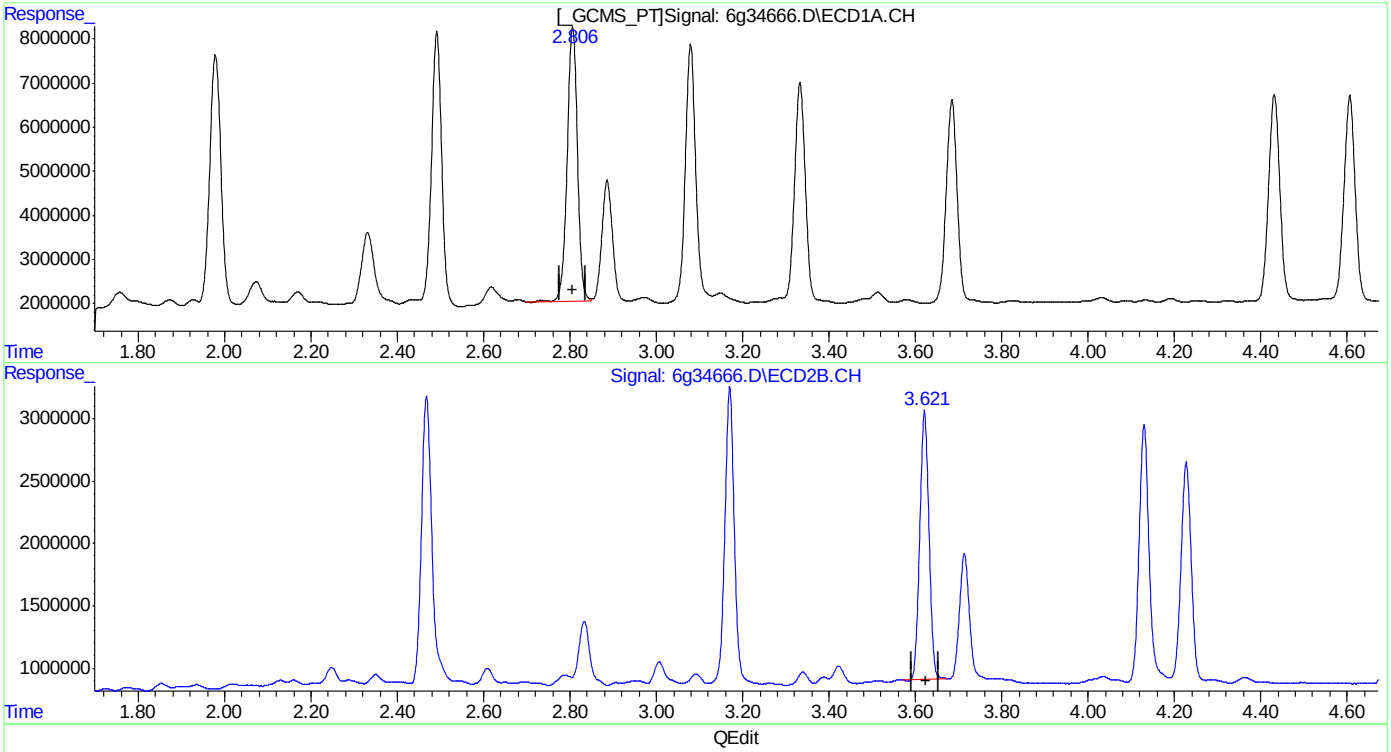
Parameter	CAS	Sig#	R.T. (min.)	Reason
gamma-BHC (Lindane)	58-89-9	1	2.81	Poor instrument integration
Heptachlor	76-44-8	1	3.33	Poor instrument integration
Heptachlor epoxide	1024-57-3	1	4.43	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.66	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 1:01 am
Operator : dharas
Sample : op93571-msd
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:51:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(4) gamma-BHC (MA)
2.806min 33.573PPB
response 103269948

(4) gamma-BHC #2 (MA)
3.621min 27.423PPB
response 31746309

(+) = Expected Retention Time

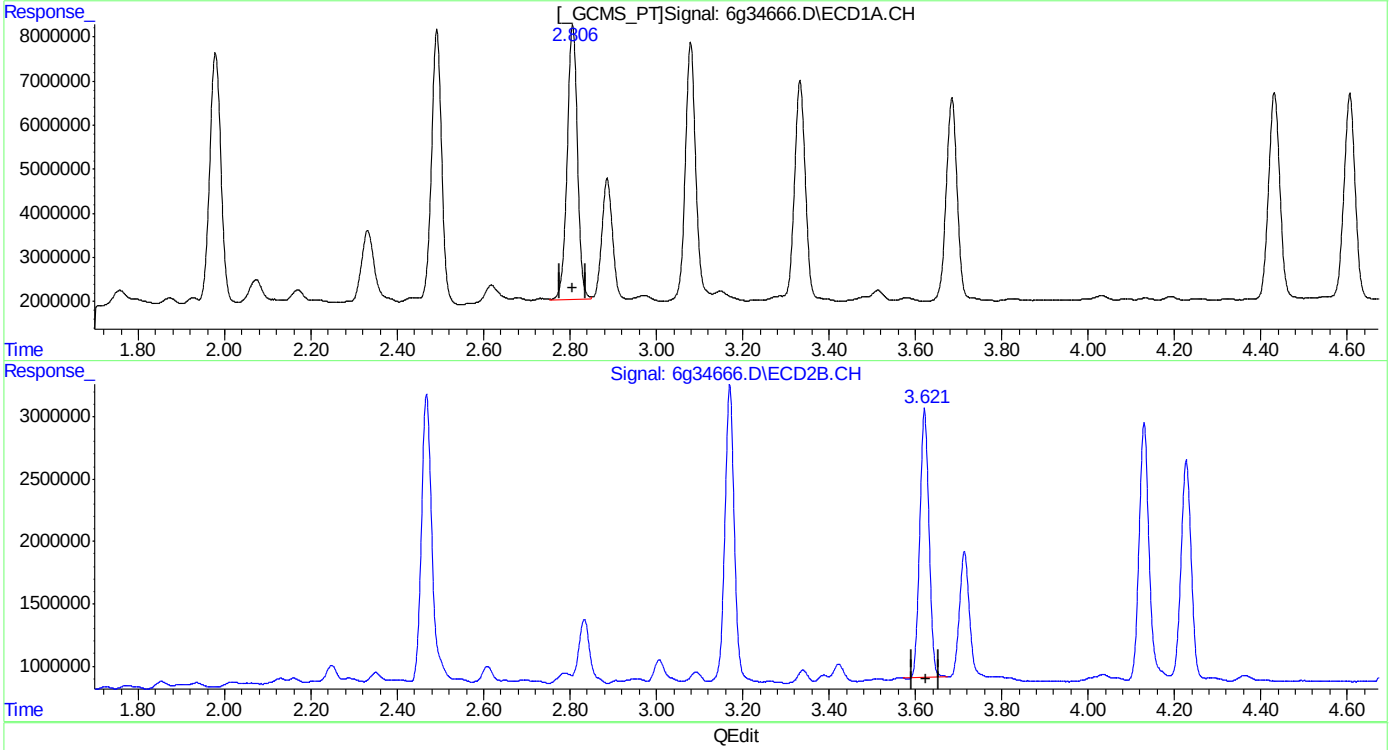
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 1:01 am
Operator : dharas
Sample : op93571-msd
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:51:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(4) gamma-BHC (MA)
2.806min 33.471PPB m
response 102954230

(4) gamma-BHC #2 (MA)
3.621min 27.423PPB
response 31746309

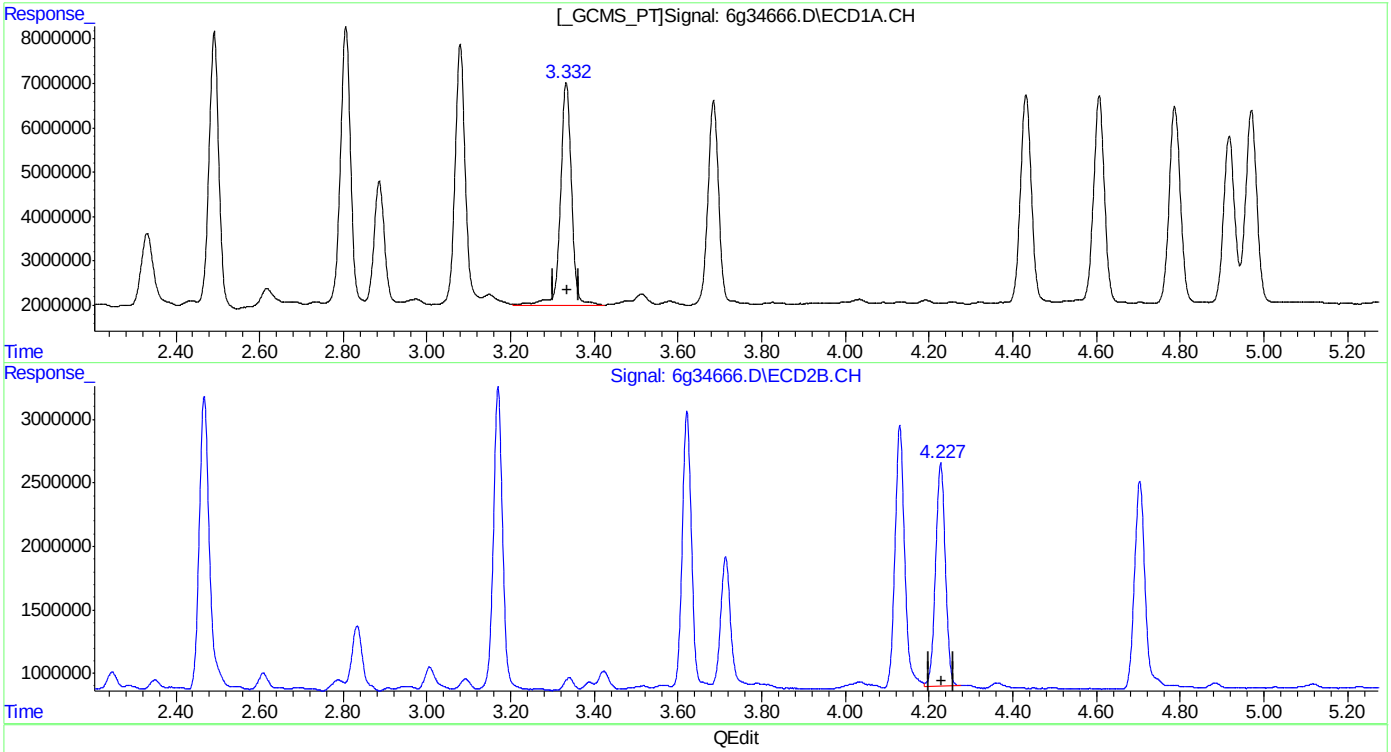
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 1:01 am
Operator : dharas
Sample : op93571-msd
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:51:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(5) Heptachlor (MA)
3.332min 29.847PPB
response 92160542

(5) Heptachlor #2 (MA)
4.227min 24.455PPB
response 28611262

(+) = Expected Retention Time

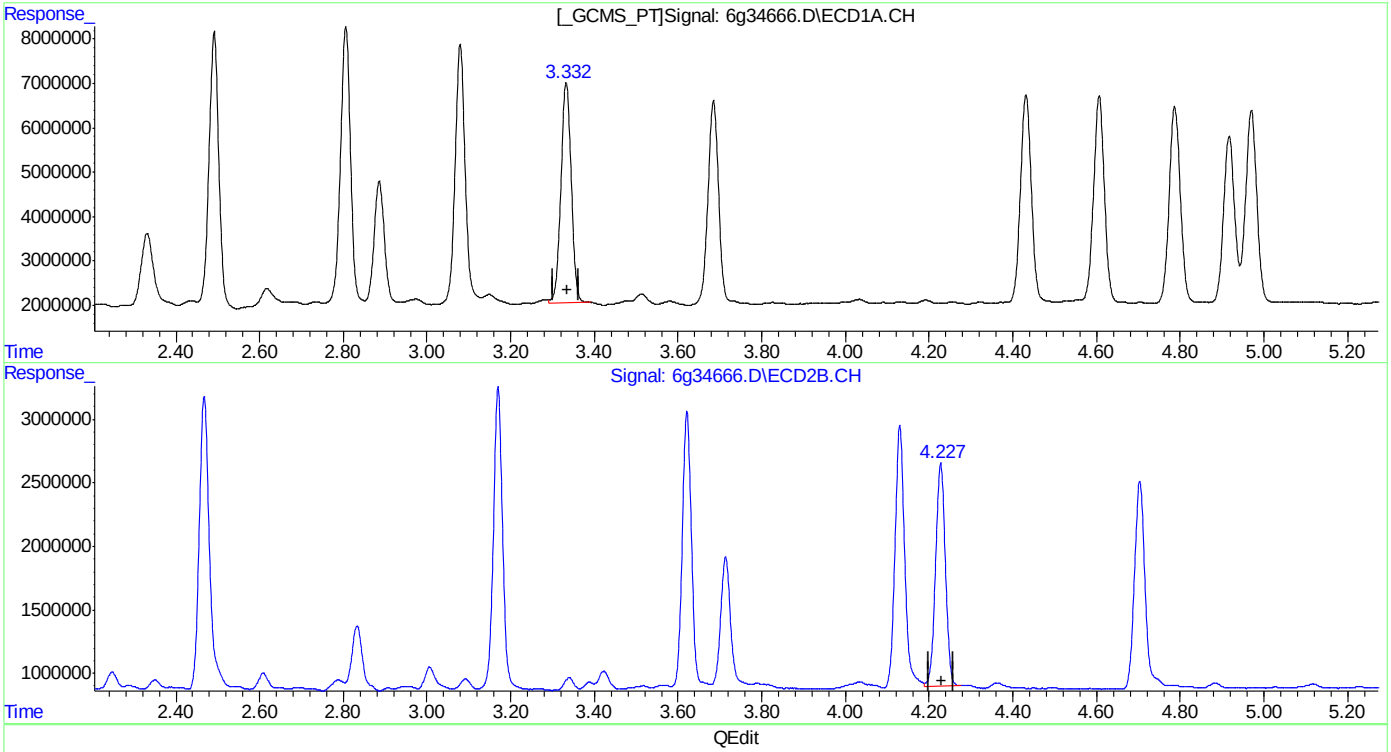
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 1:01 am
Operator : dharas
Sample : op93571-msd
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:51:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(5) Heptachlor (MA)
3.332min 27.709PPB m
response 85558305

(5) Heptachlor #2 (MA)
4.227min 24.455PPB
response 28611262

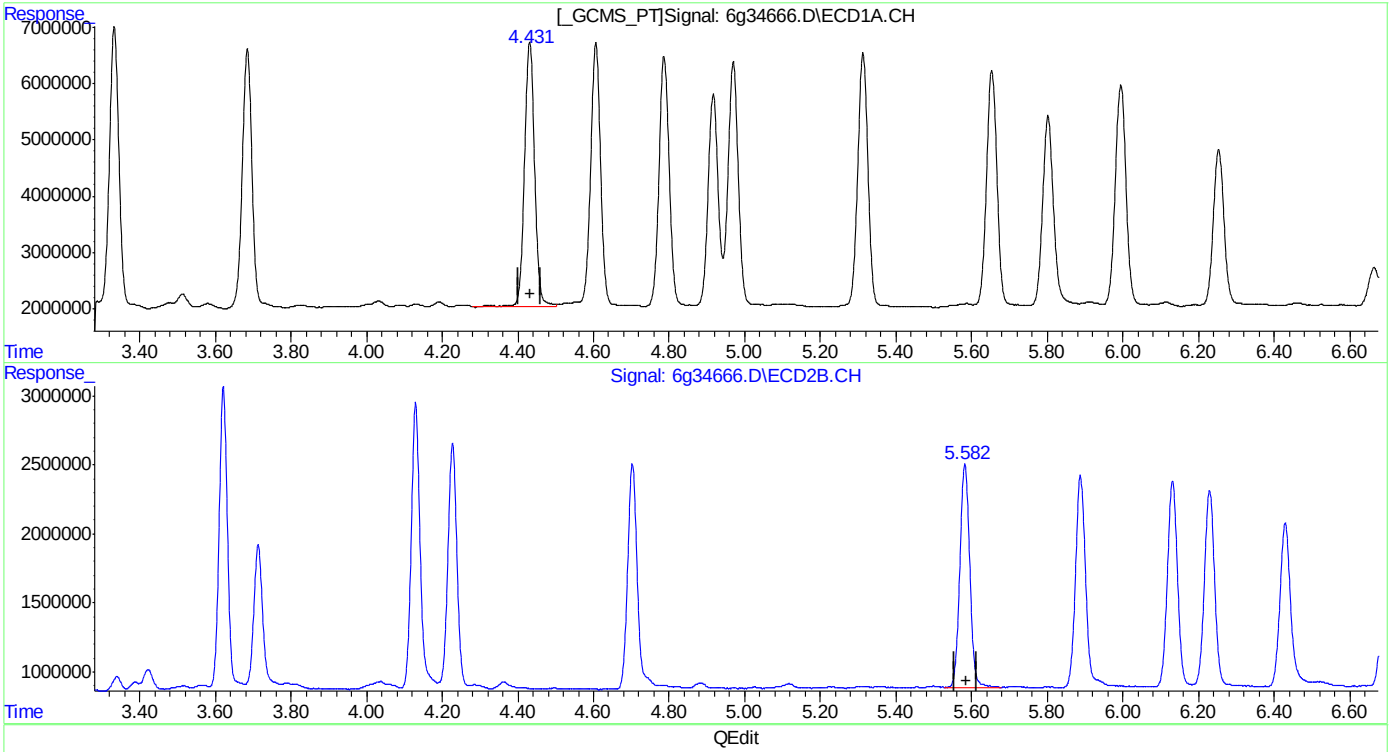
(+) = Expected Retention Time
6PST987.M Wed May 04 12:52:29 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 1:01 am
Operator : dharas
Sample : op93571-msd
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:51:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) Heptachlor Epoxide (B)
4.431min 32.663PPB
response 87206314

(9) Heptachlor Epoxide #2 (B)
5.582min 29.113PPB
response 29519976

(+) = Expected Retention Time

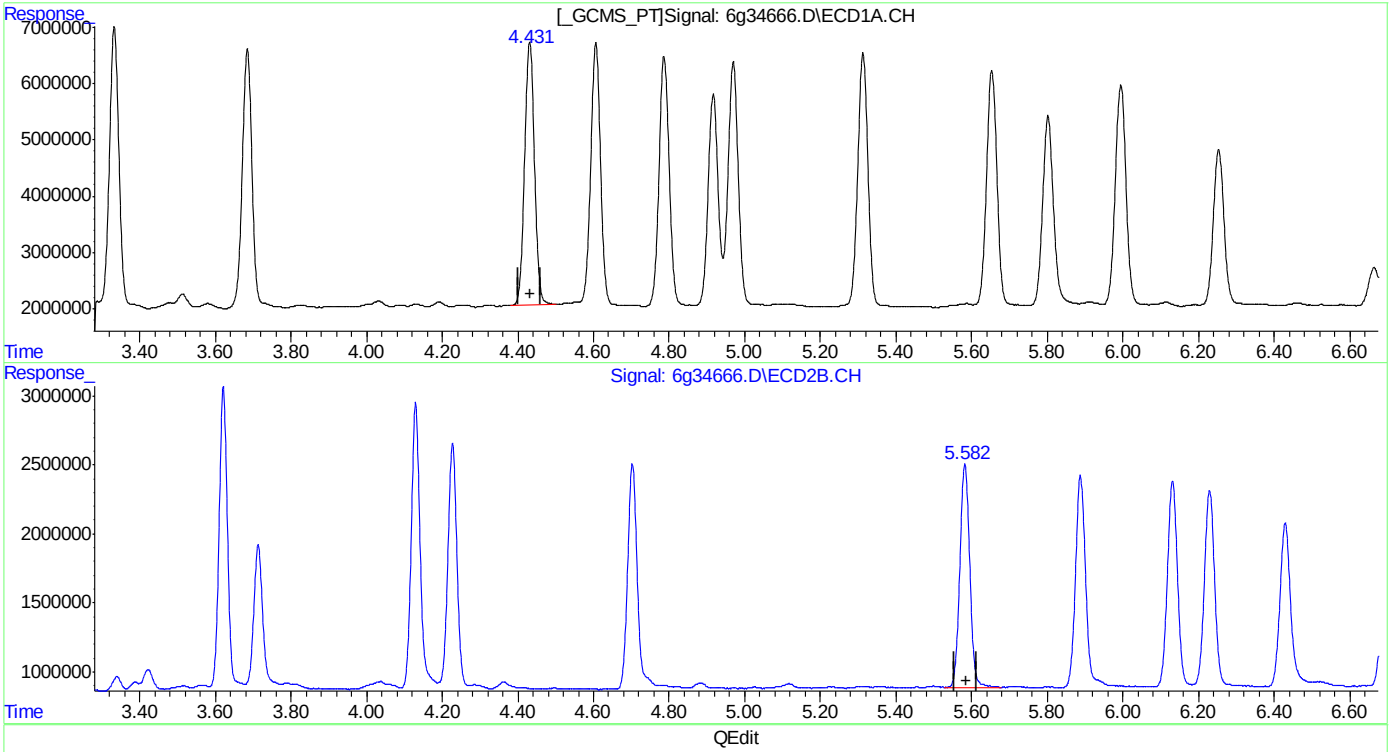
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 1:01 am
Operator : dharas
Sample : op93571-msd
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:51:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) Heptachlor Epoxide (B)
4.431min 31.759PPB m
response 84793482

(9) Heptachlor Epoxide #2 (B)
5.582min 29.113PPB
response 29519976

(+) = Expected Retention Time
6PST987.M Wed May 04 12:52:41 2016

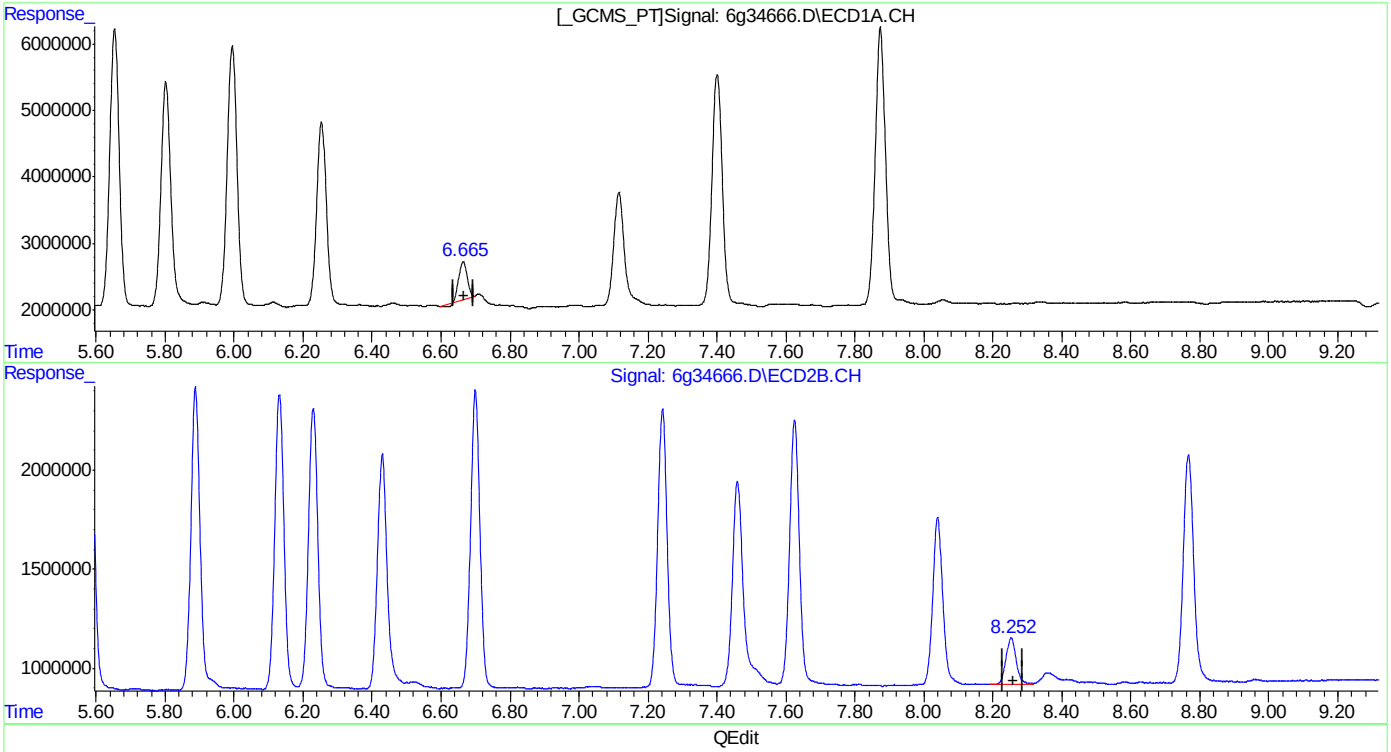
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 1:01 am
Operator : dharas
Sample : op93571-msd
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:51:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(19) Endrin Aldehyde (B)
6.665min 4.863PPB
response 9234598

(19) Endrin Aldehyde #2 (B)
8.253min 6.795PPB
response 4784437

(+) = Expected Retention Time
6PST987.M Wed May 04 12:52:51 2016

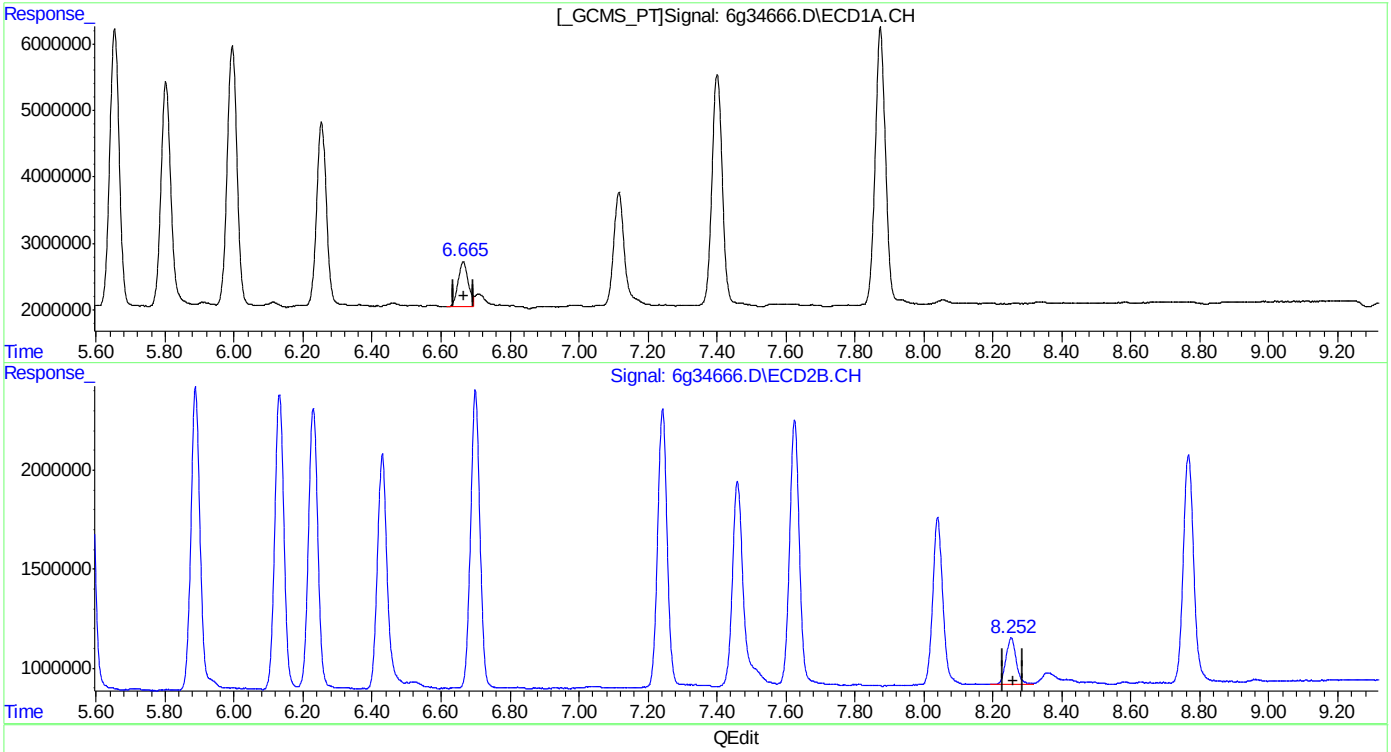
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 1:01 am
Operator : dharas
Sample : op93571-msd
Misc : op93571,g6g1001,150,,,2,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 12:51:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(19) Endrin Aldehyde (B)
6.665min 7.398PPB m
response 14049213

(19) Endrin Aldehyde #2 (B)
8.253min 6.795PPB
response 4784437

(+) = Expected Retention Time
6PST987.M Wed May 04 12:53:00 2016

SGS ACCUTEST JC19473

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							

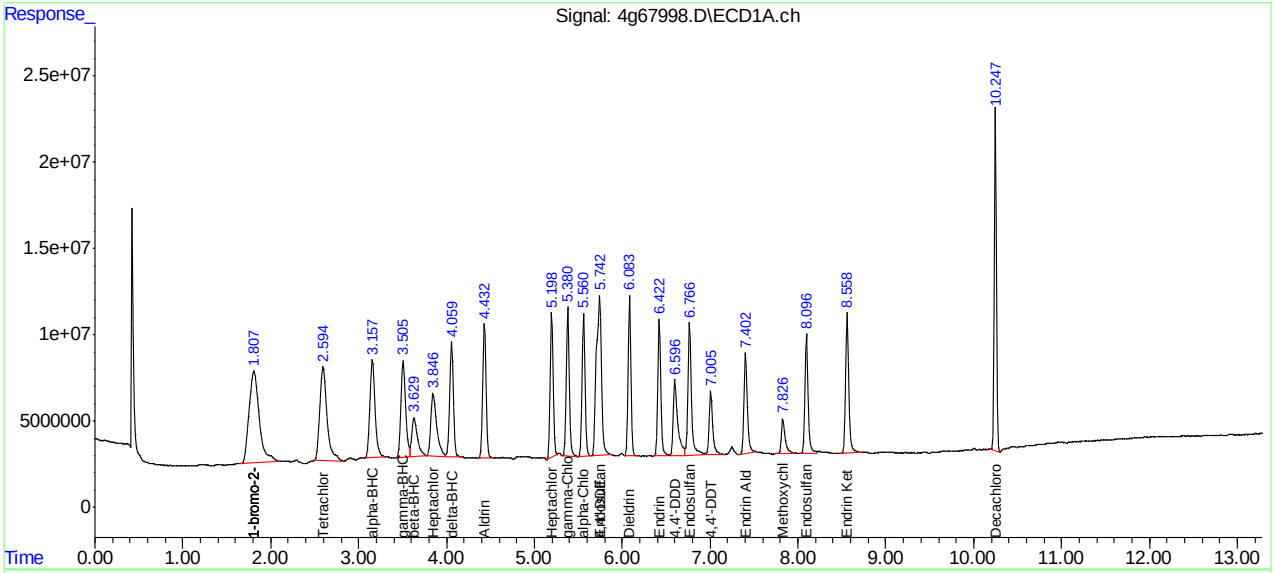
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

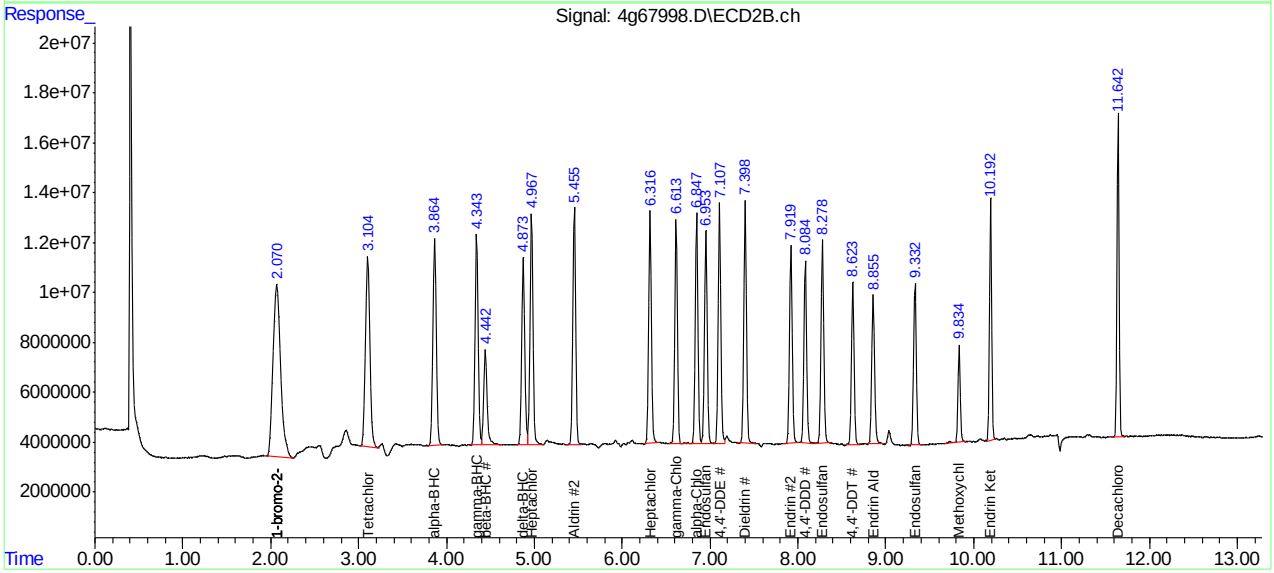
Quantitation Report (QT Reviewed)

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 JC19473

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

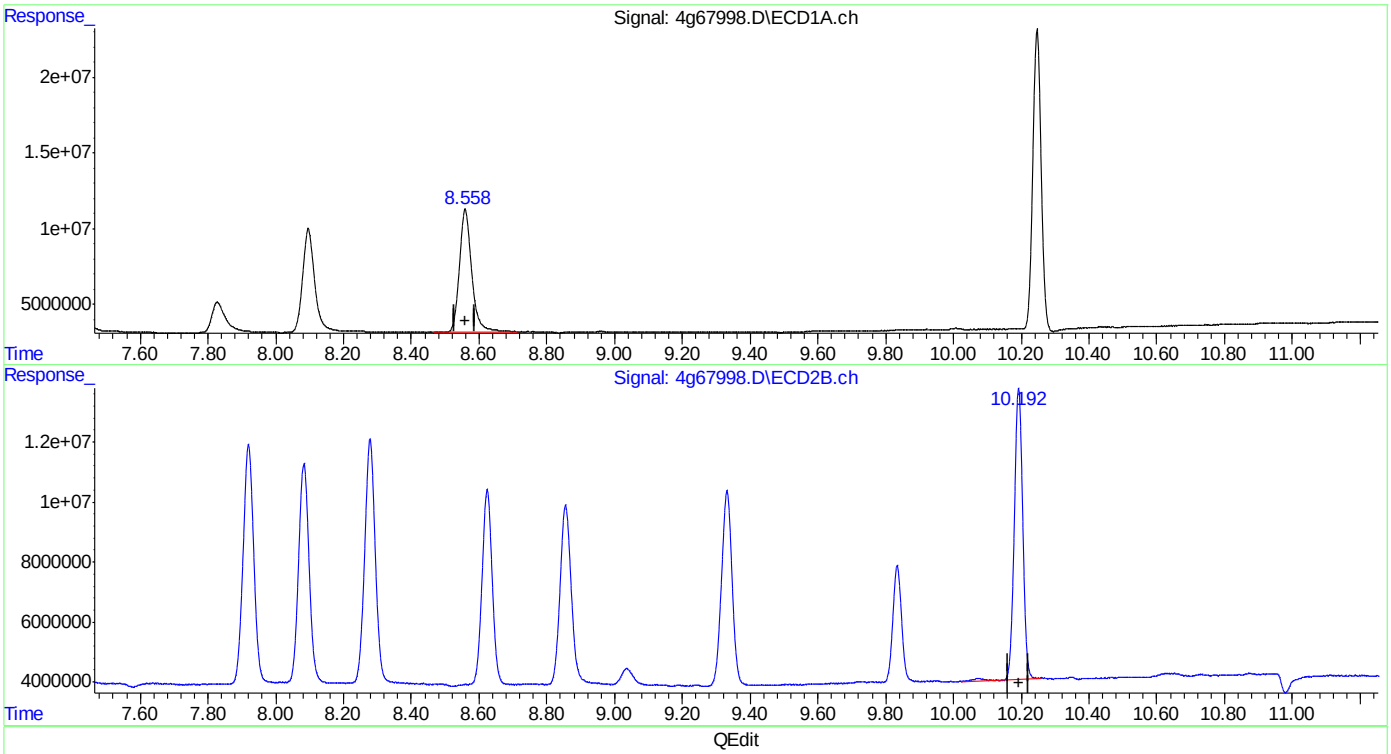
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin ketone	53494-70-5	2	10.19	Poor instrument integration

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

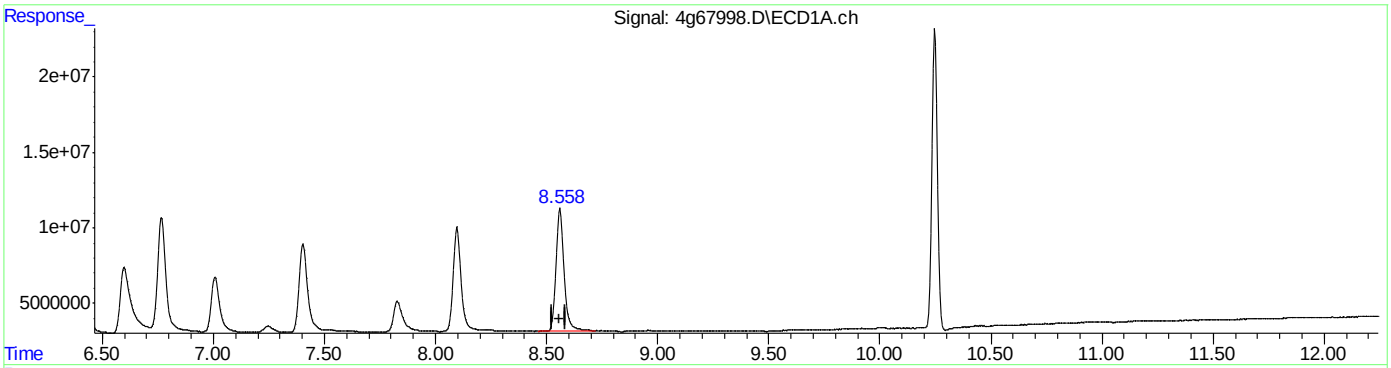
(+) = Expected Retention Time
4PST1778.M Sat May 07 16:41:25 2016 RPT1

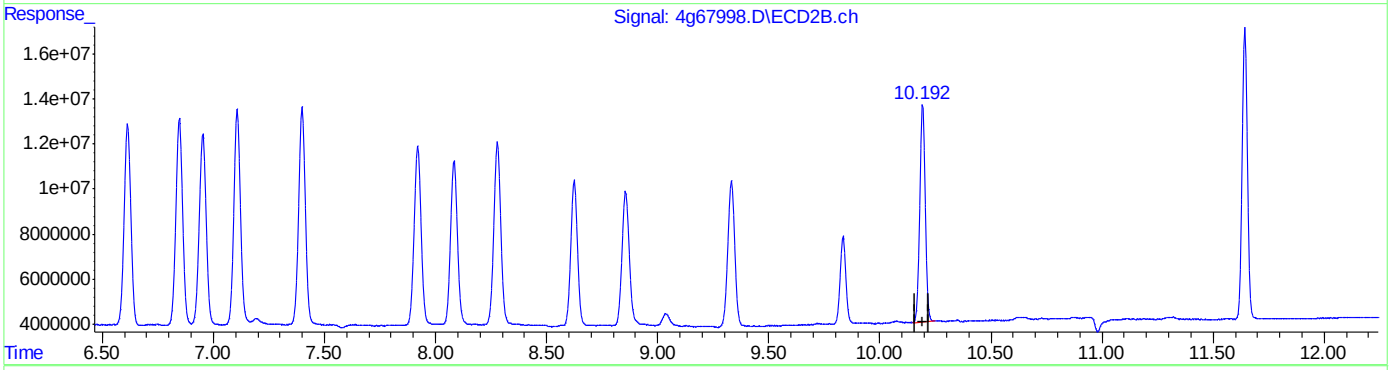
Quantitation Report (Qedit)

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





QEdit

(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 JC19473

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.

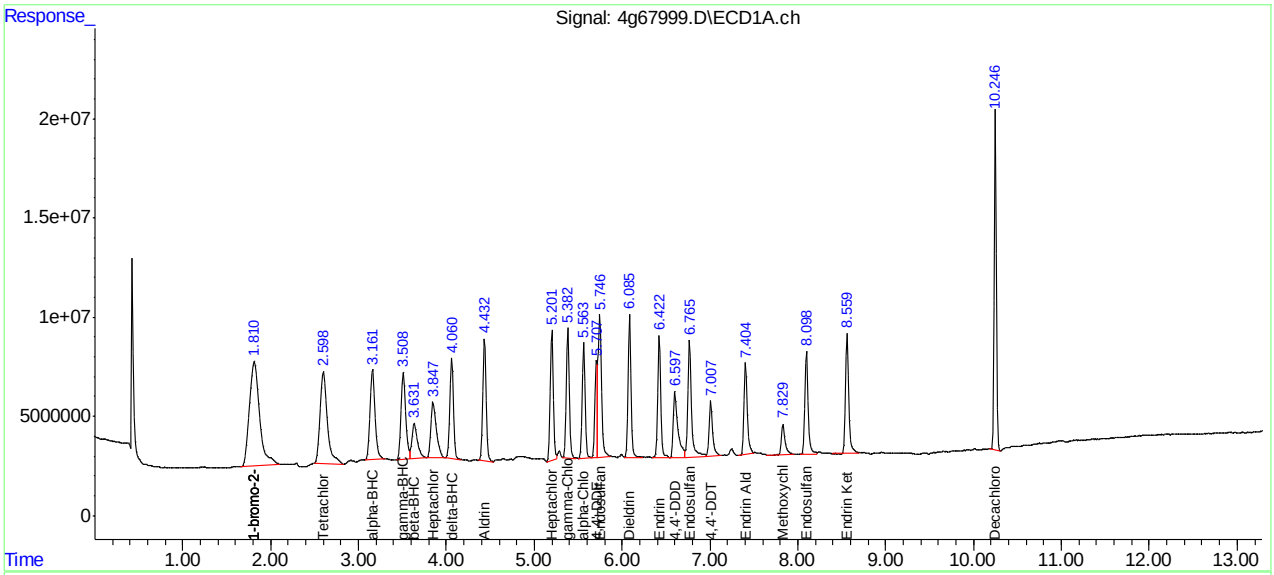
SGS ACCUTEST JC19473

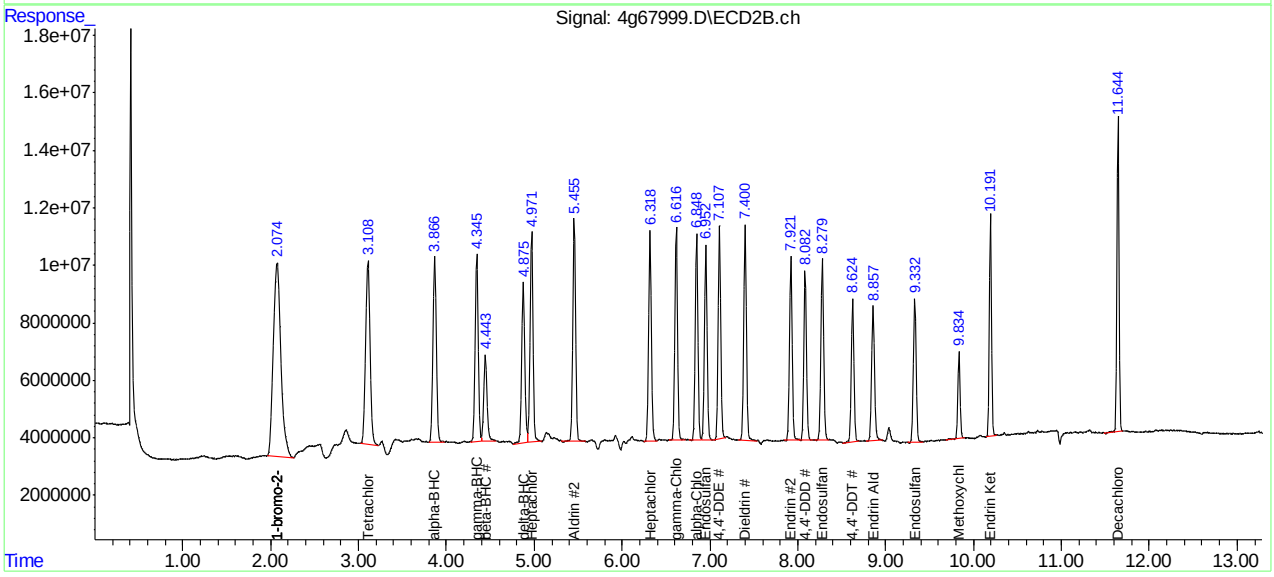
Quantitation Report (QT Reviewed)

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





SGS ACCUTEST JC19473

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

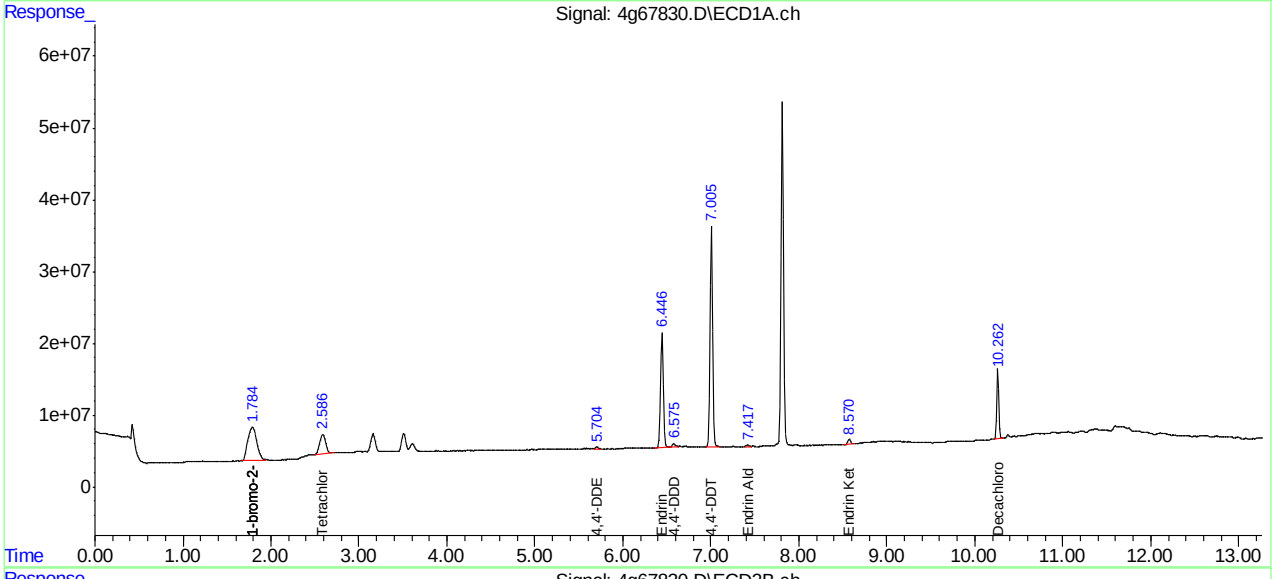
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

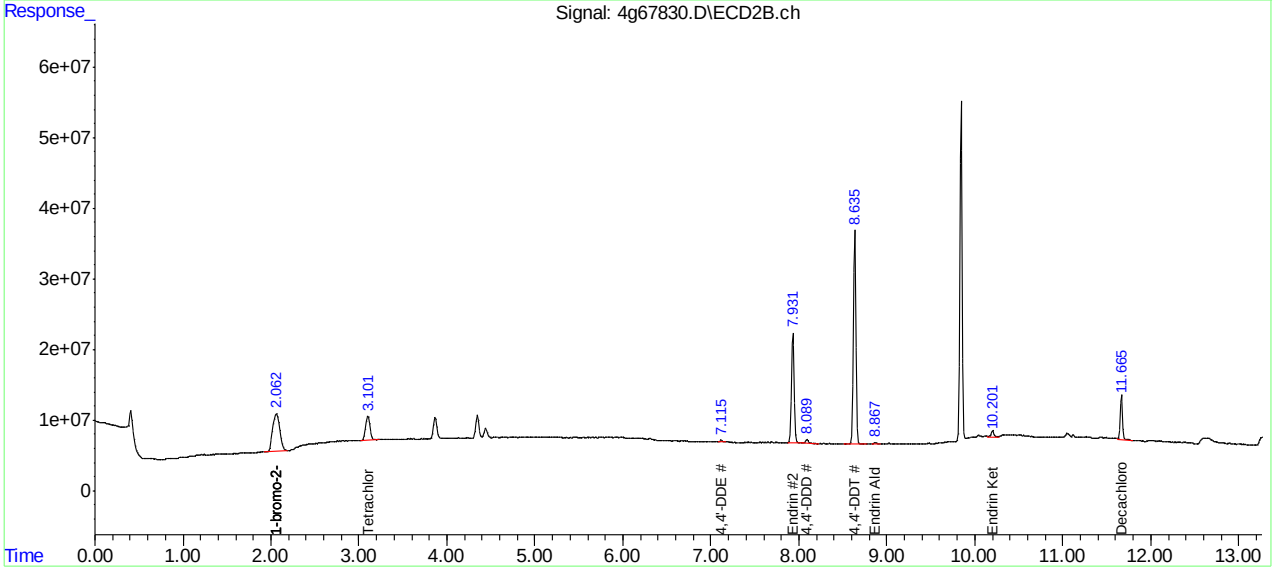
Quantitation Report (QT Reviewed)

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

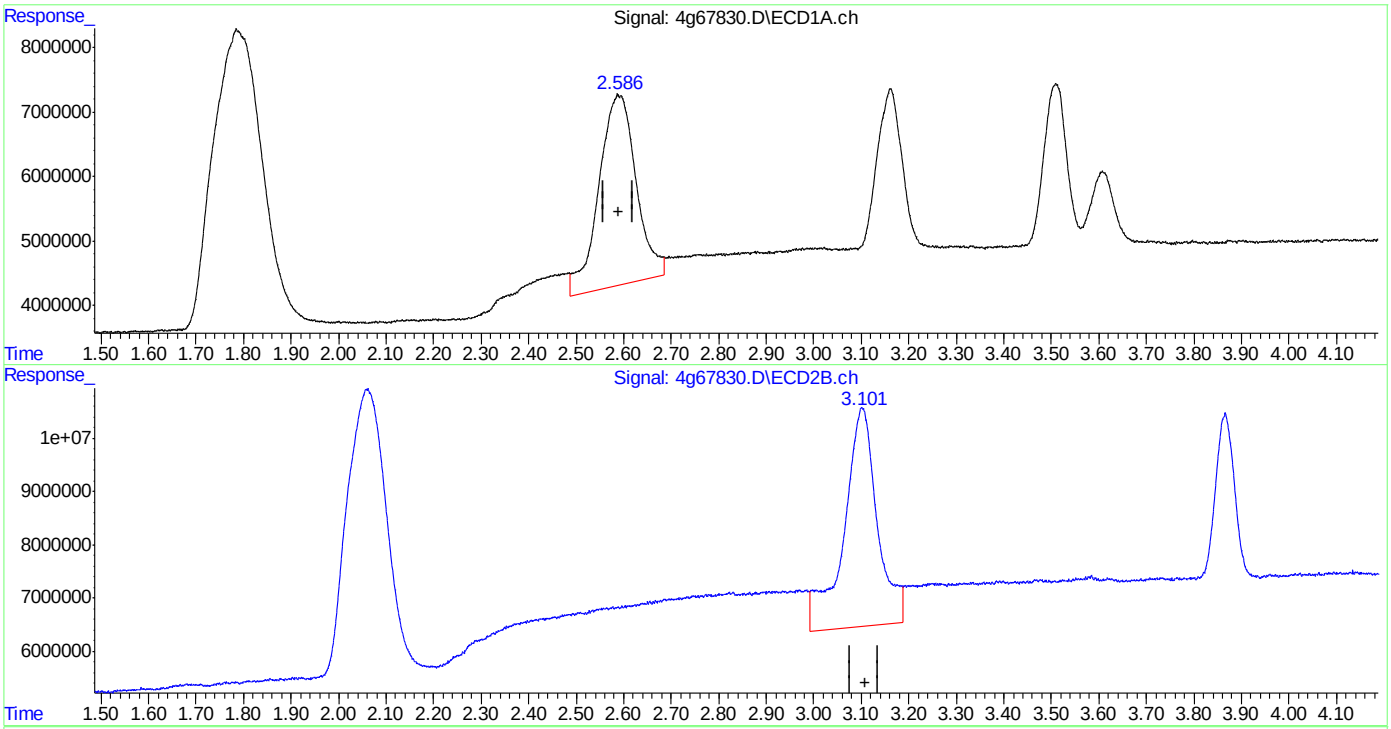
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	3.10	Poorly defined baseline
4,4'-DDE	72-55-9	2	7.12	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	7.42	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	8.87	Poorly 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

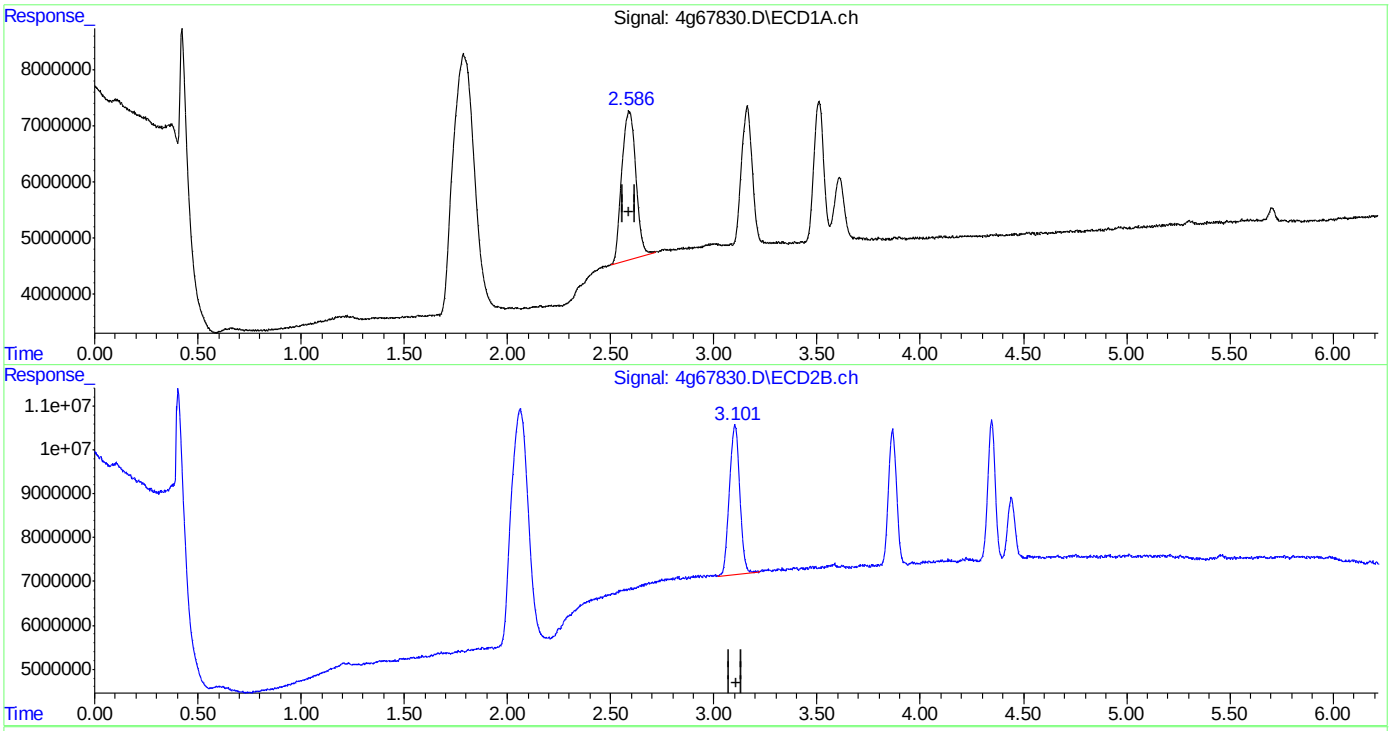
4PST1778.M Tue May 03 15:29:00 2016 RPT1

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

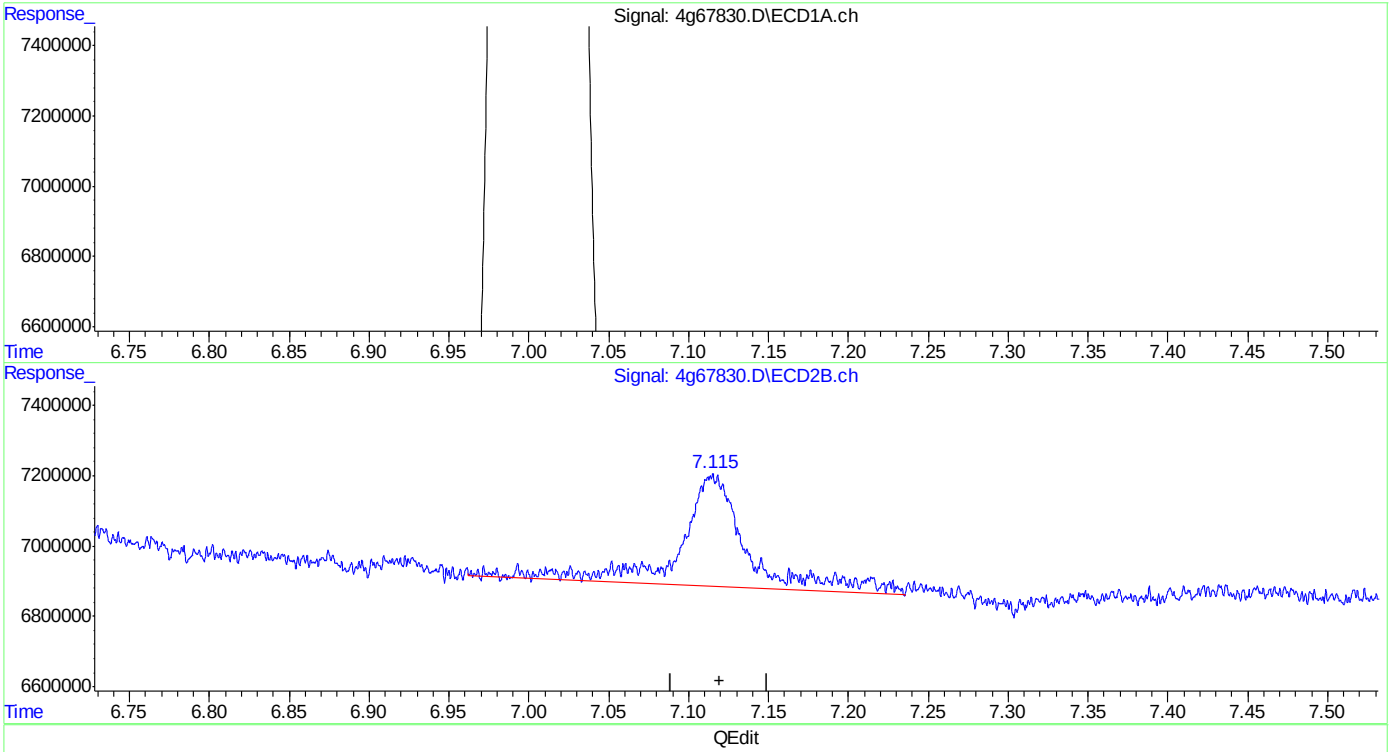
SGS ACCUTEST JC19473

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

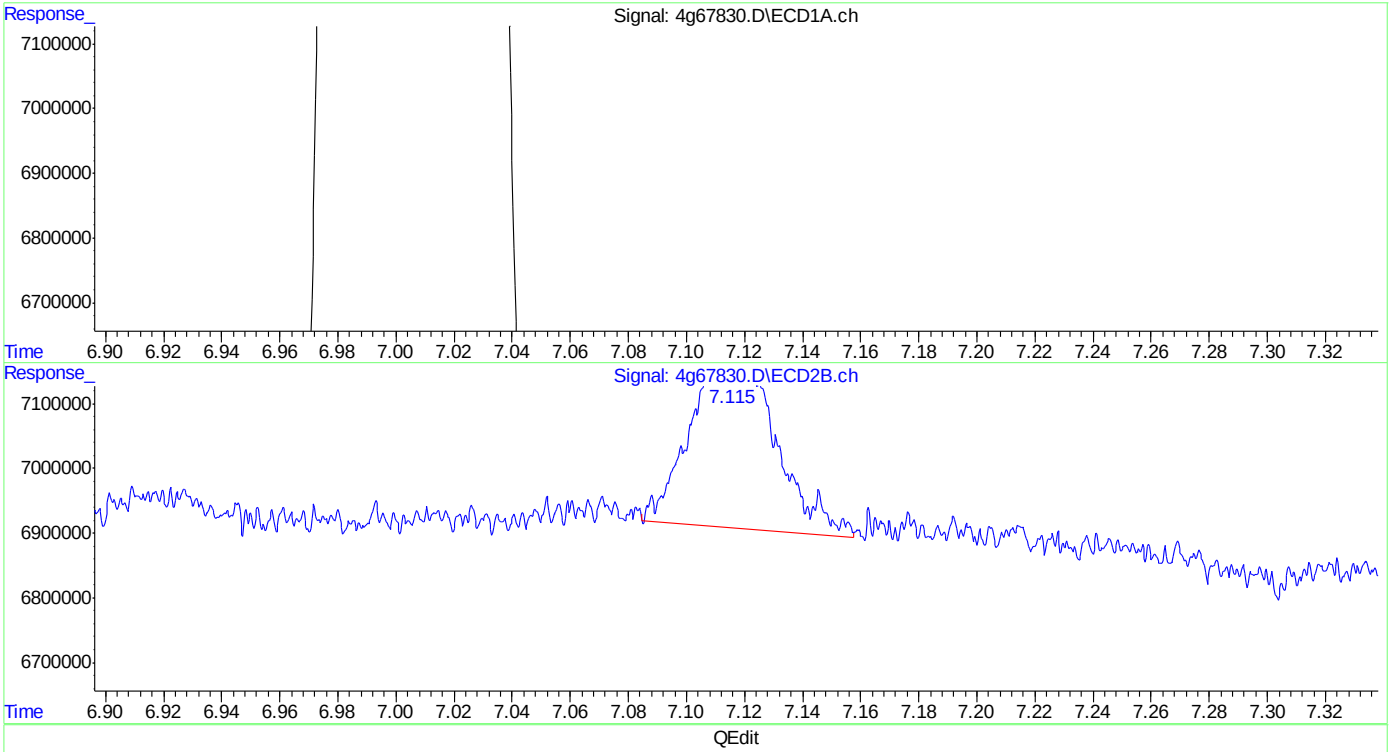
(+) = Expected Retention Time

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

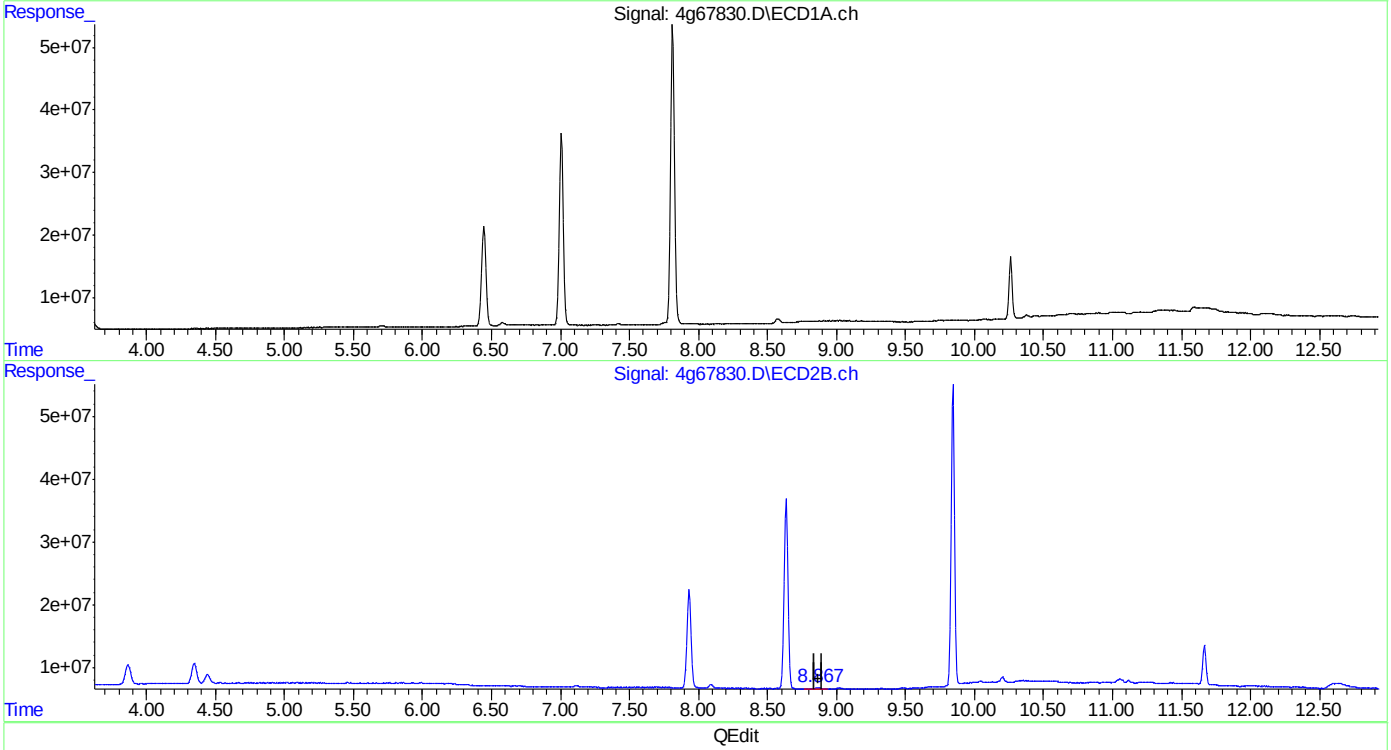
SGS ACCUTEST JC19473

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)
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

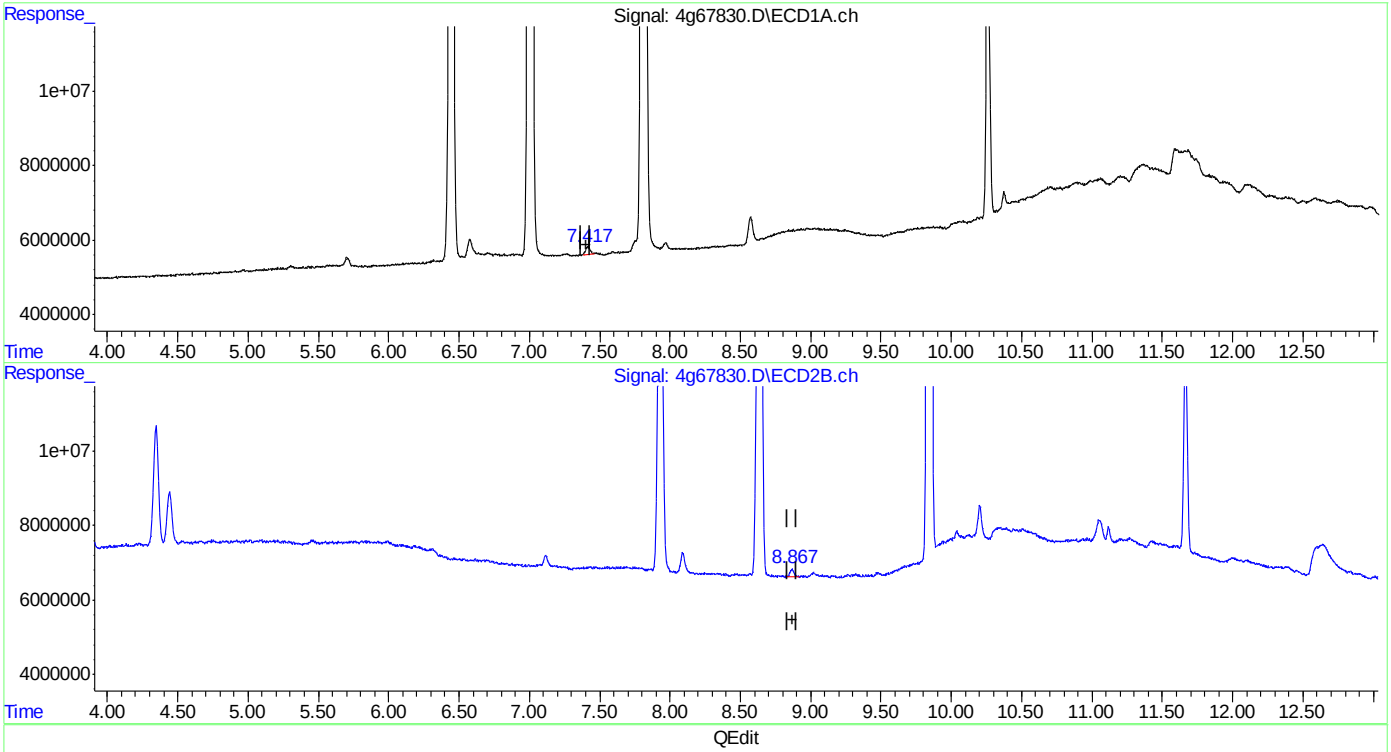
SGS ACCUTEST JC19473

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

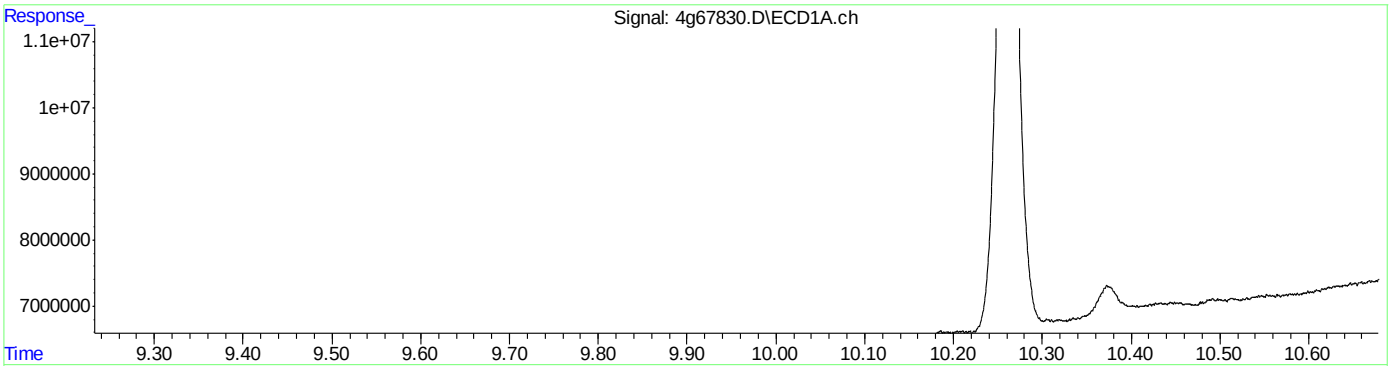
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:30:41 2016 RPT1

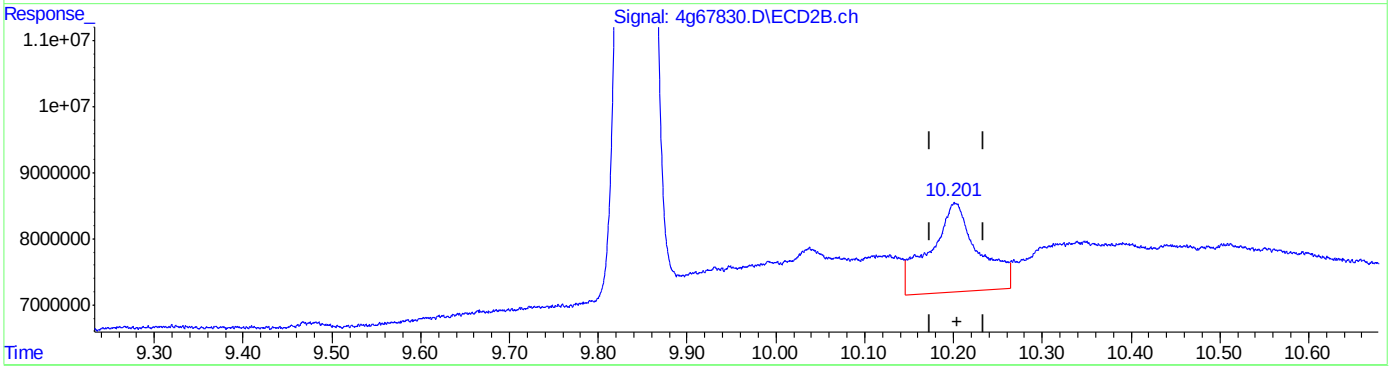
Quantitation Report (Qedit)

```
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)
10.202min 10.275 PPB
response 50617081

(+) = Expected Retention Time

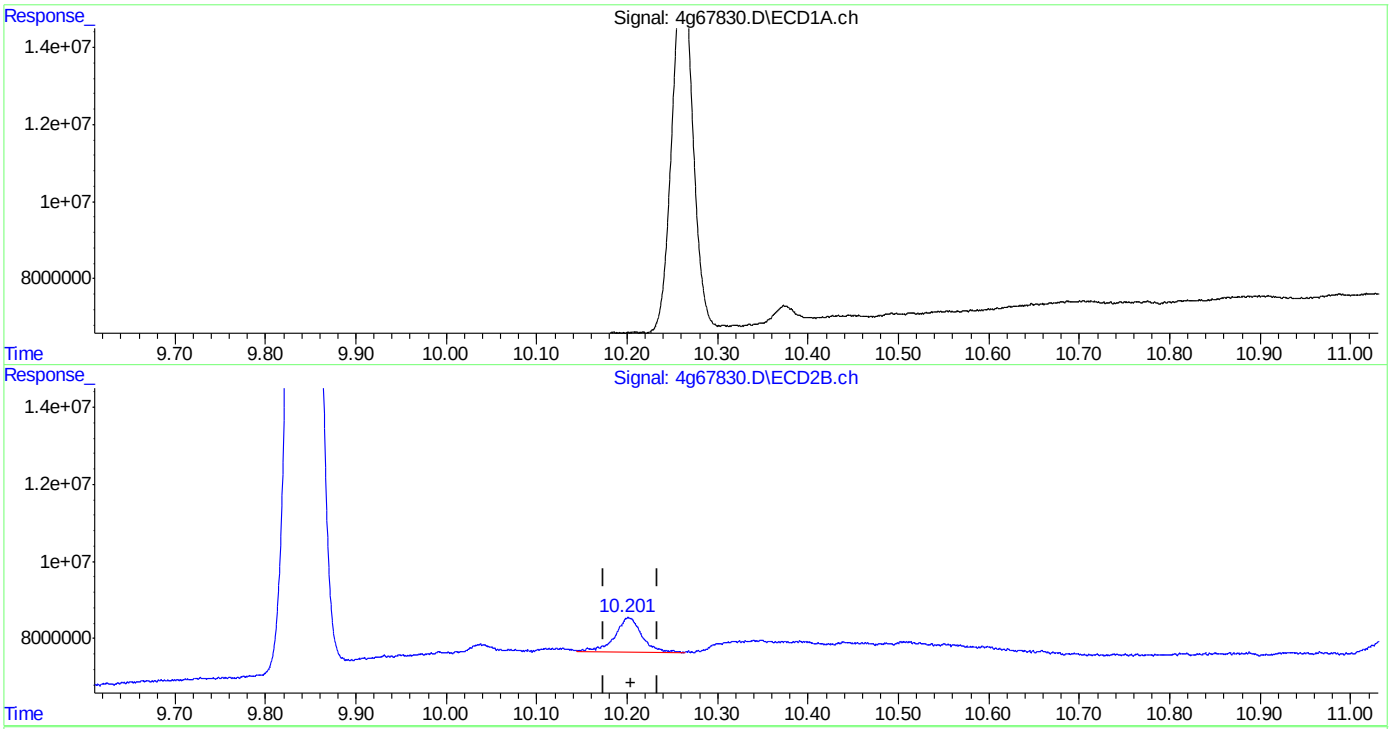
SGS ACCUTEST JC19473

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

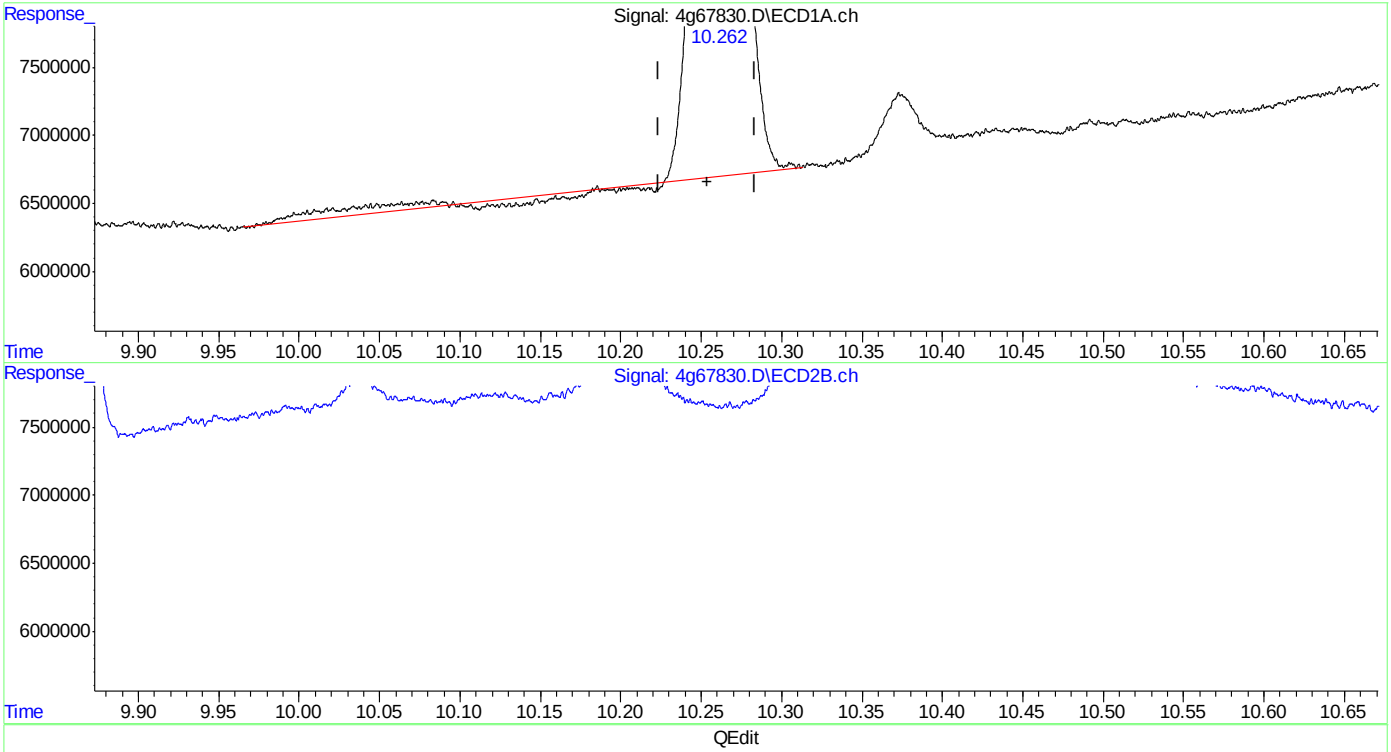
SGS ACCUTEST JC19473

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

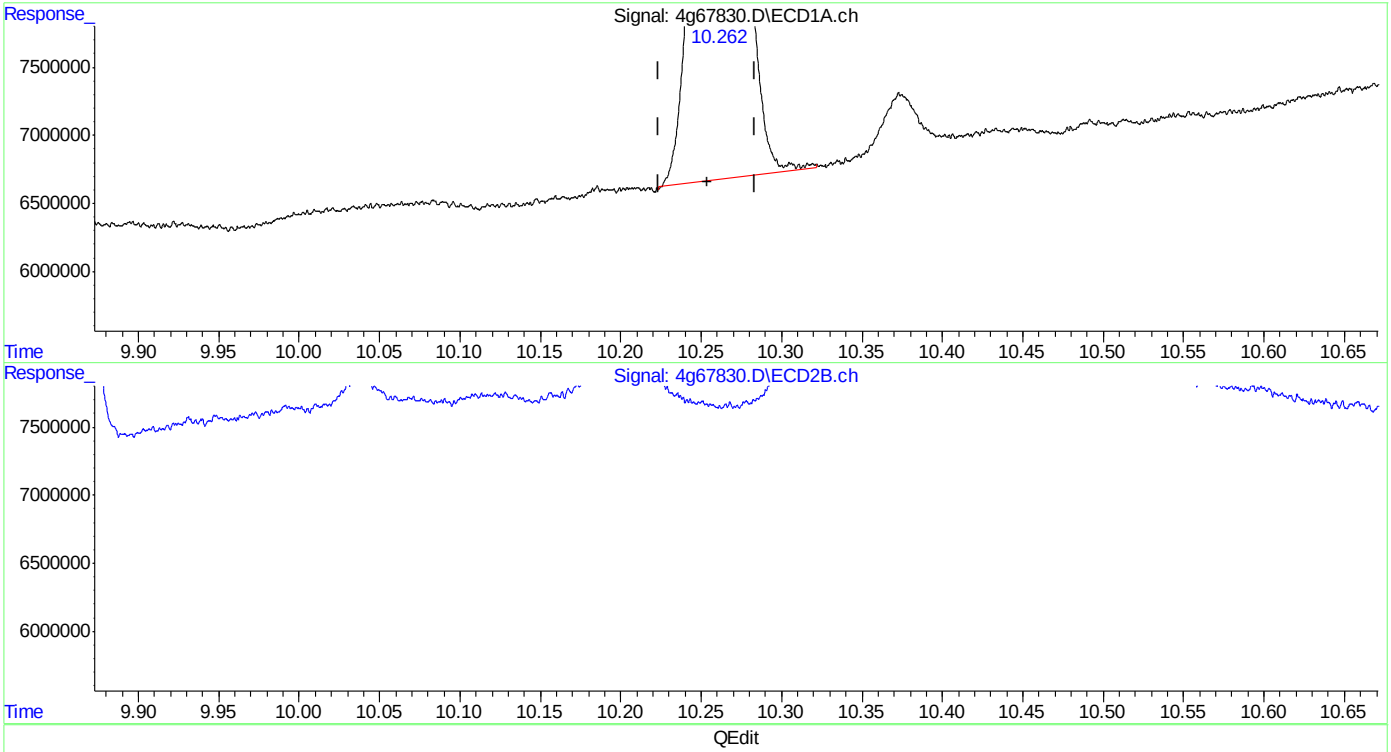
SGS ACCUTEST JC19473

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.

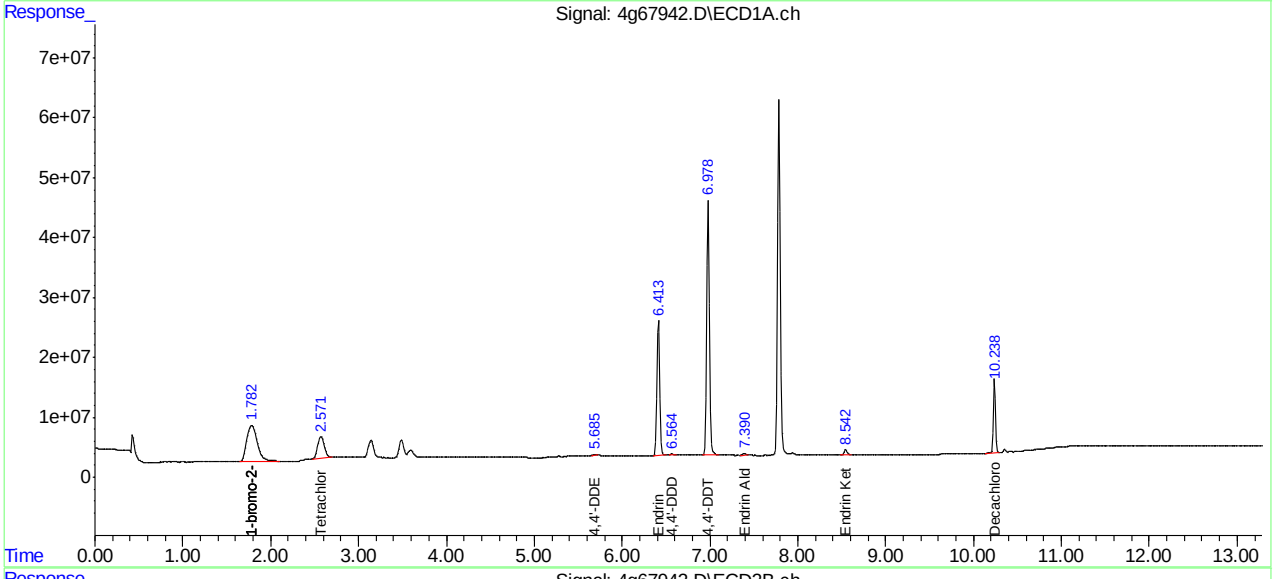
9.5.2
9

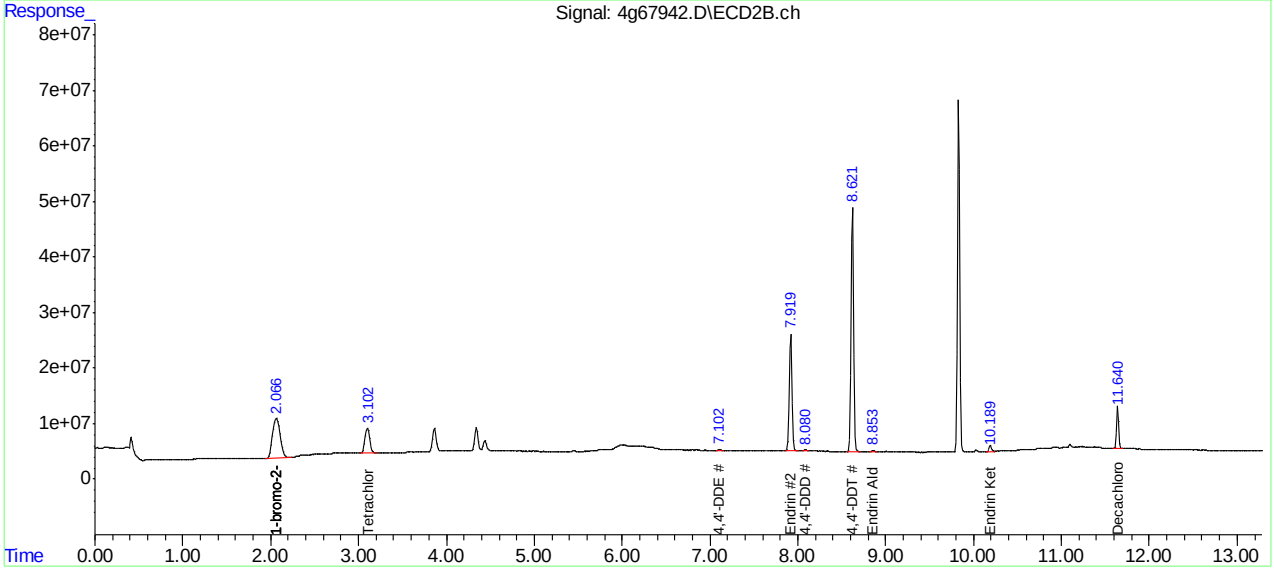
Quantitation Report (QT Reviewed)

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

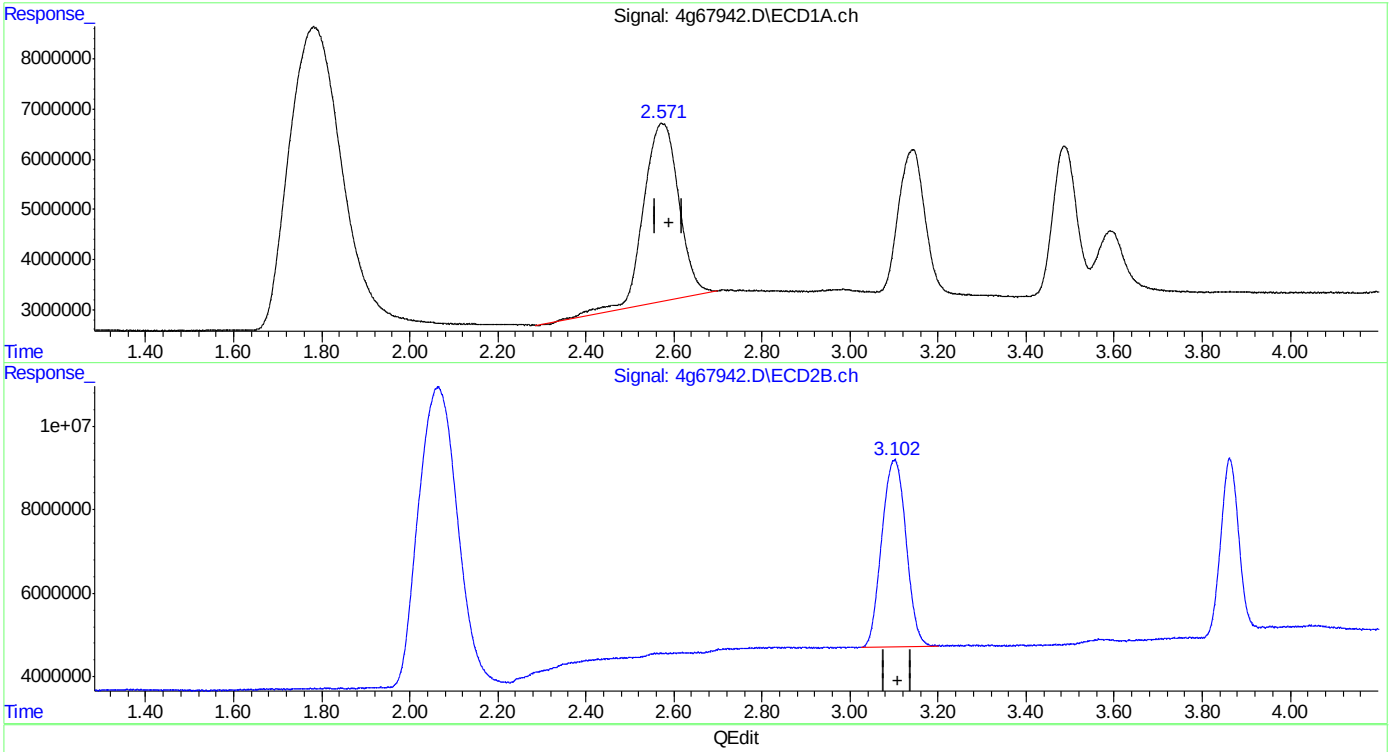
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.57	Poor instrument integration
4,4'-DDE	72-55-9	1	5.68	Poor instrument integration
4,4'-DDD	72-54-8	1	6.56	Poor instrument integration
4,4'-DDE	72-55-9	2	7.10	Poor instrument integration
Endrin aldehyde	7421-93-4	1	7.39	Poor instrument 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
```



QEdit

(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

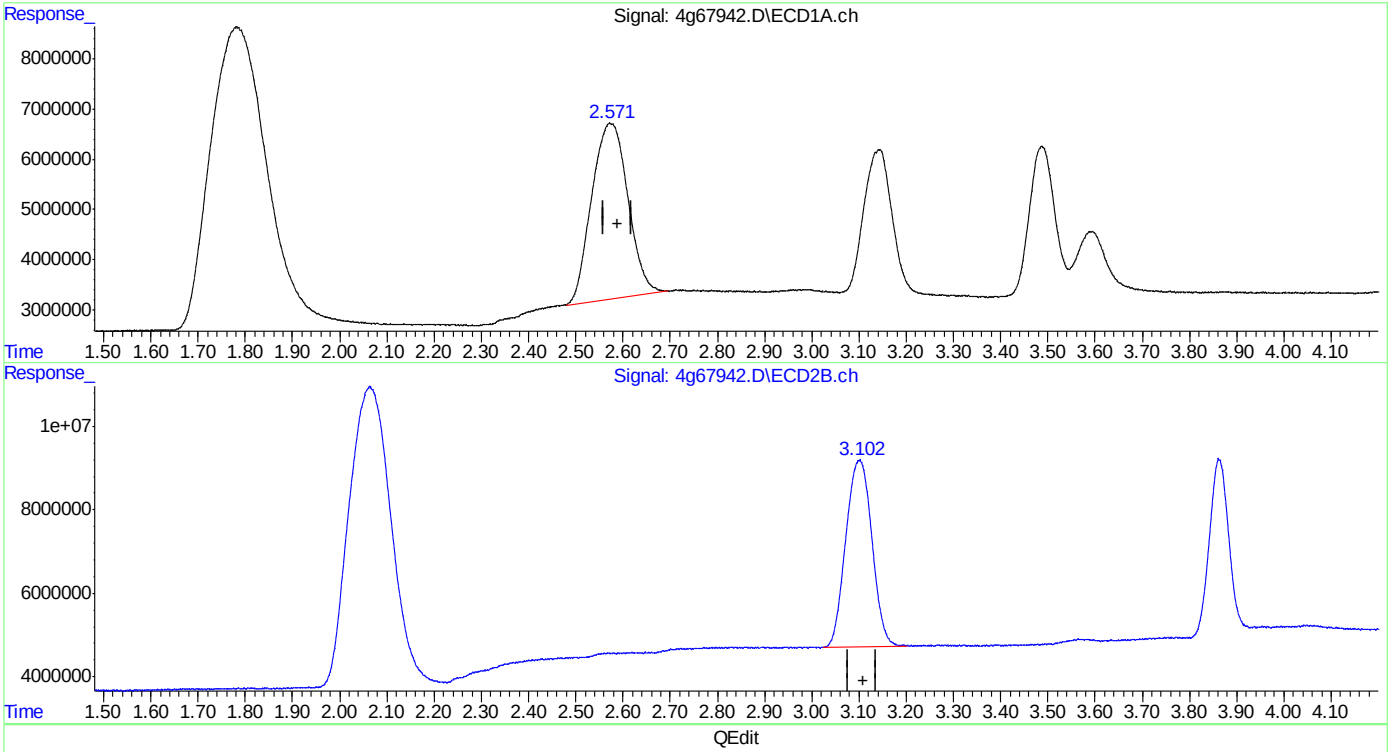
SGS ACCUTEST JC19473

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

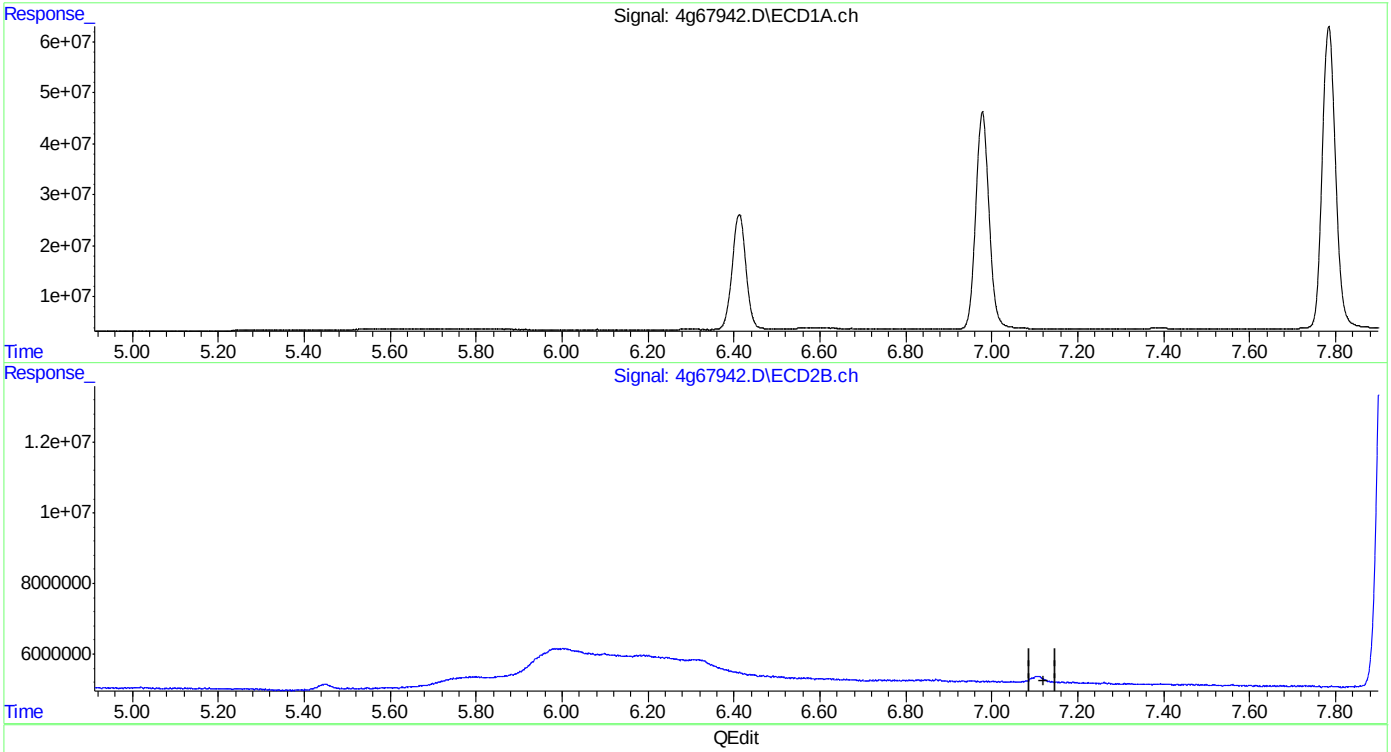
(+) = Expected Retention Time
4PST1778.M Fri May 06 09:36:05 2016 RPT1

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

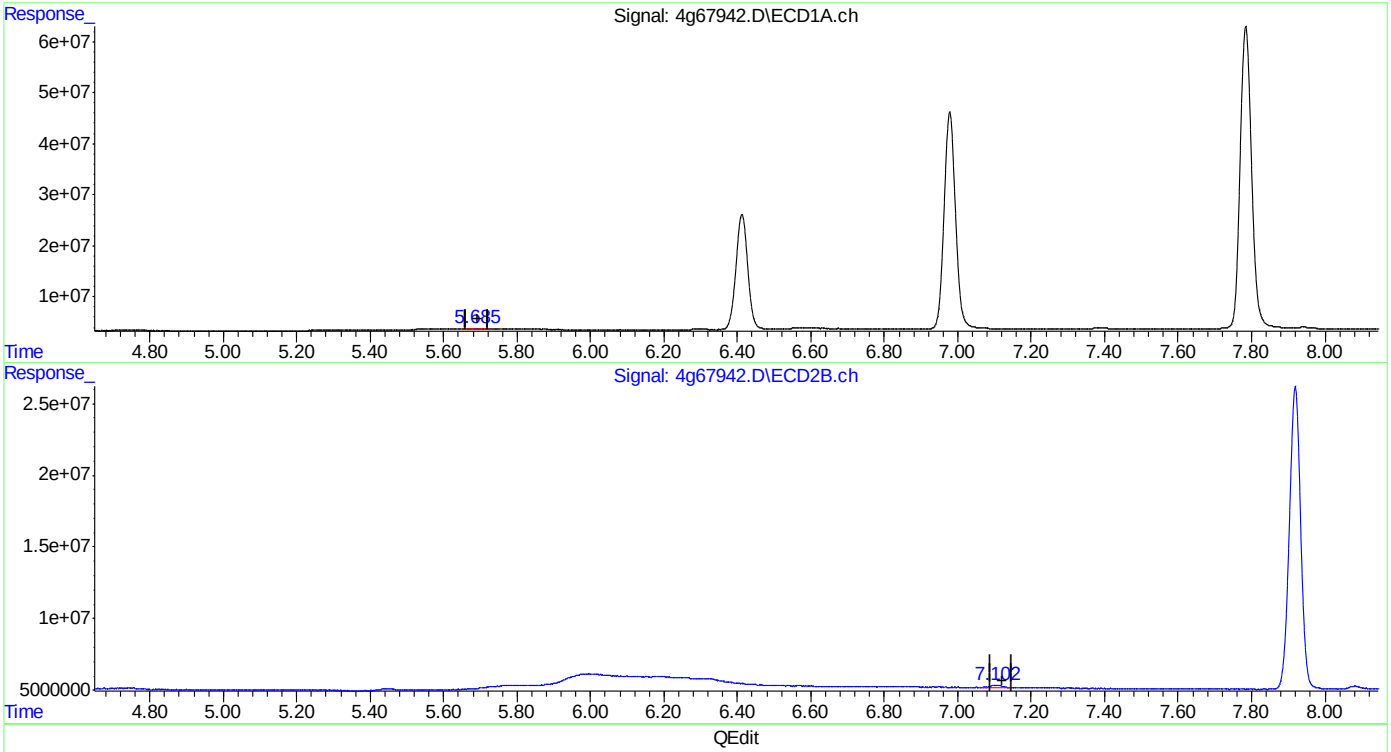
SGS ACCUTEST JC19473

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

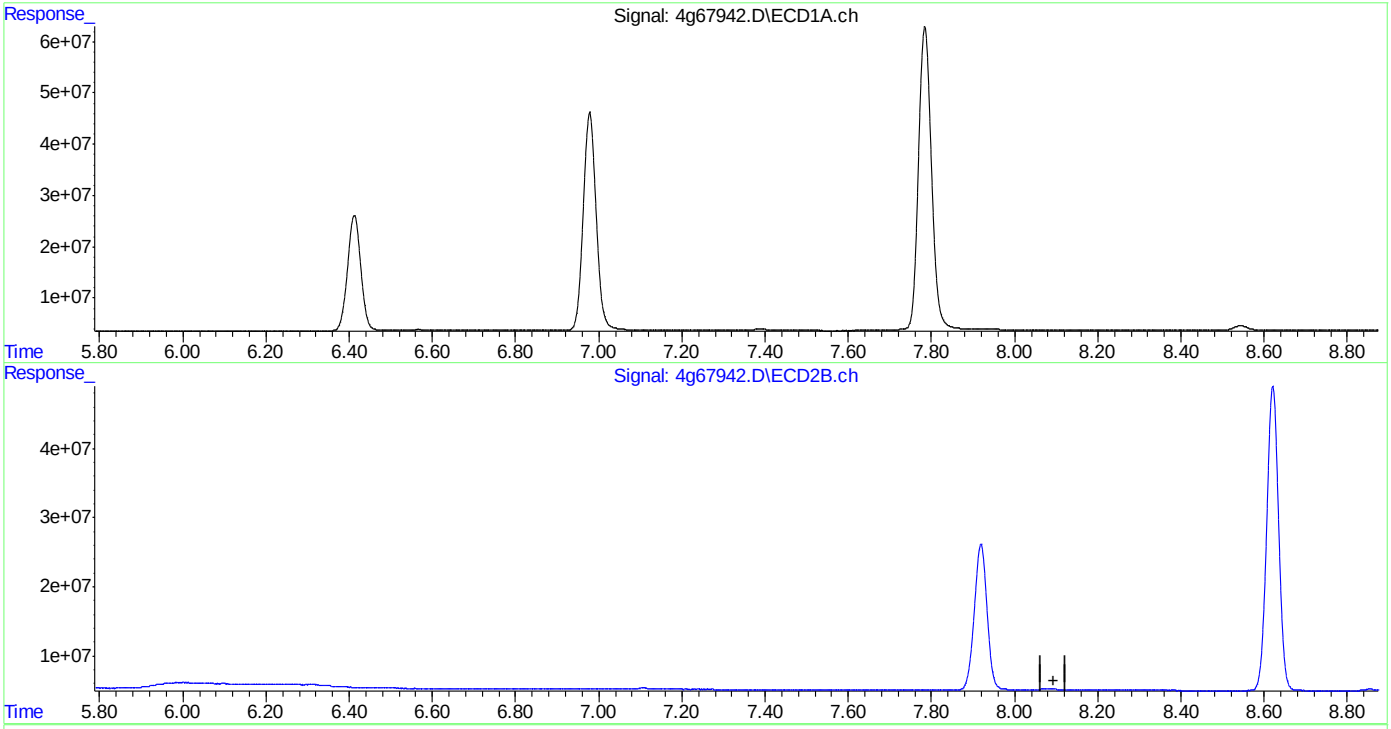
SGS ACCUTEST JC19473

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

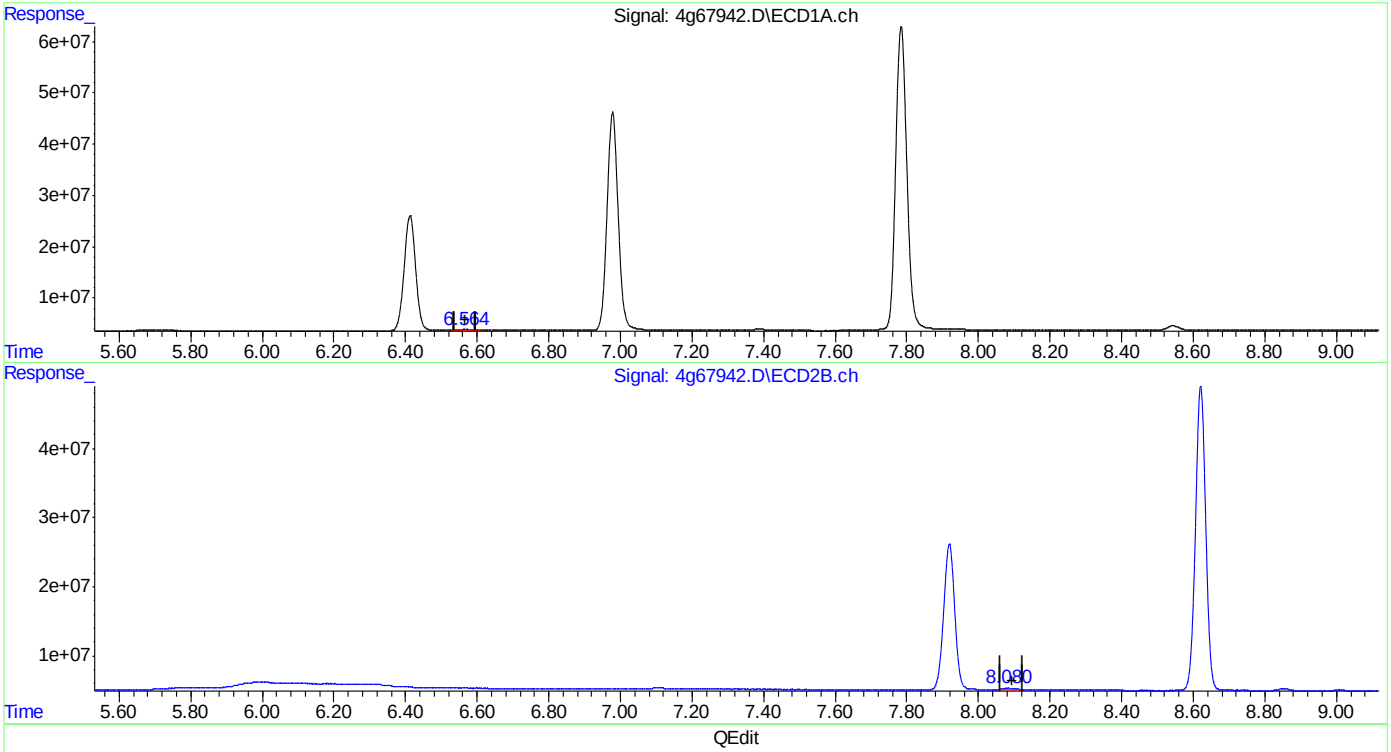
SGS ACCUTEST JC19473

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
4PST1778.M Fri May 06 09:37:02 2016 RPT1

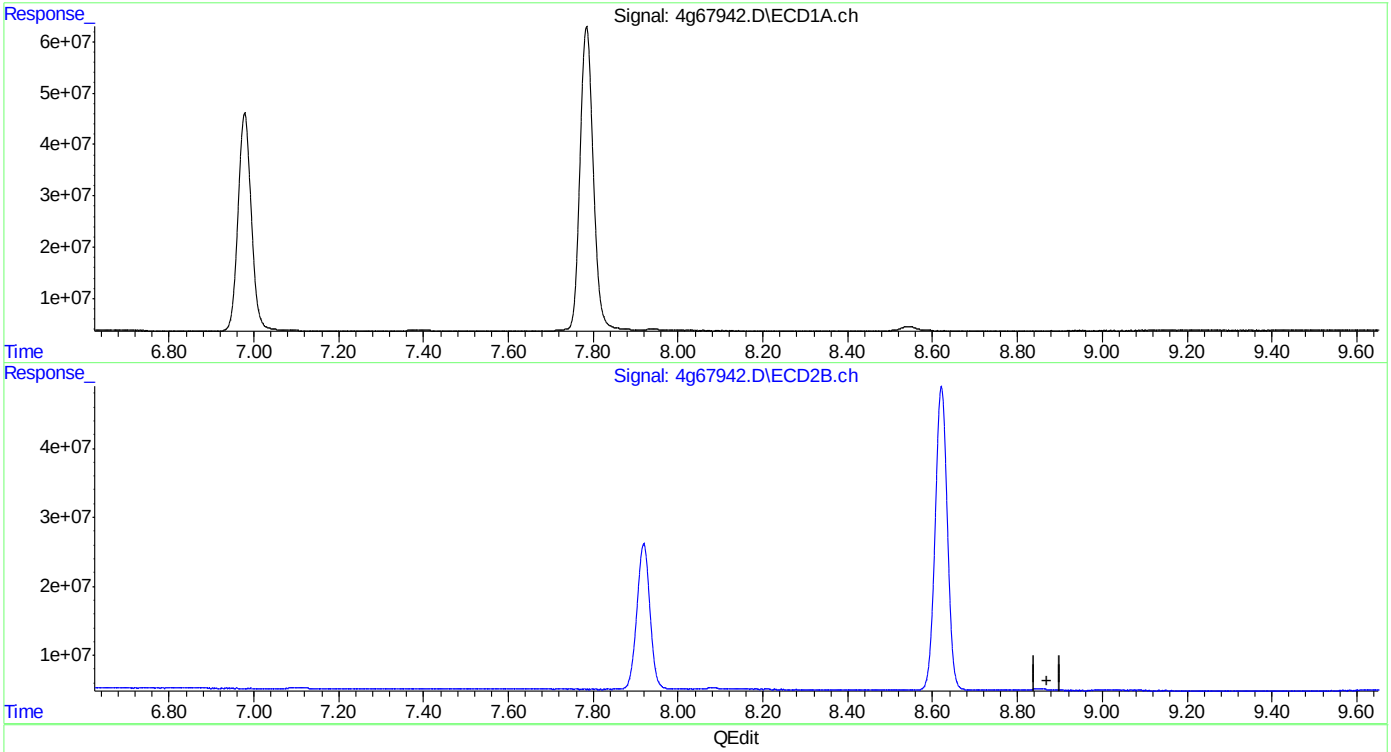
SGS ACCUTEST JC19473

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

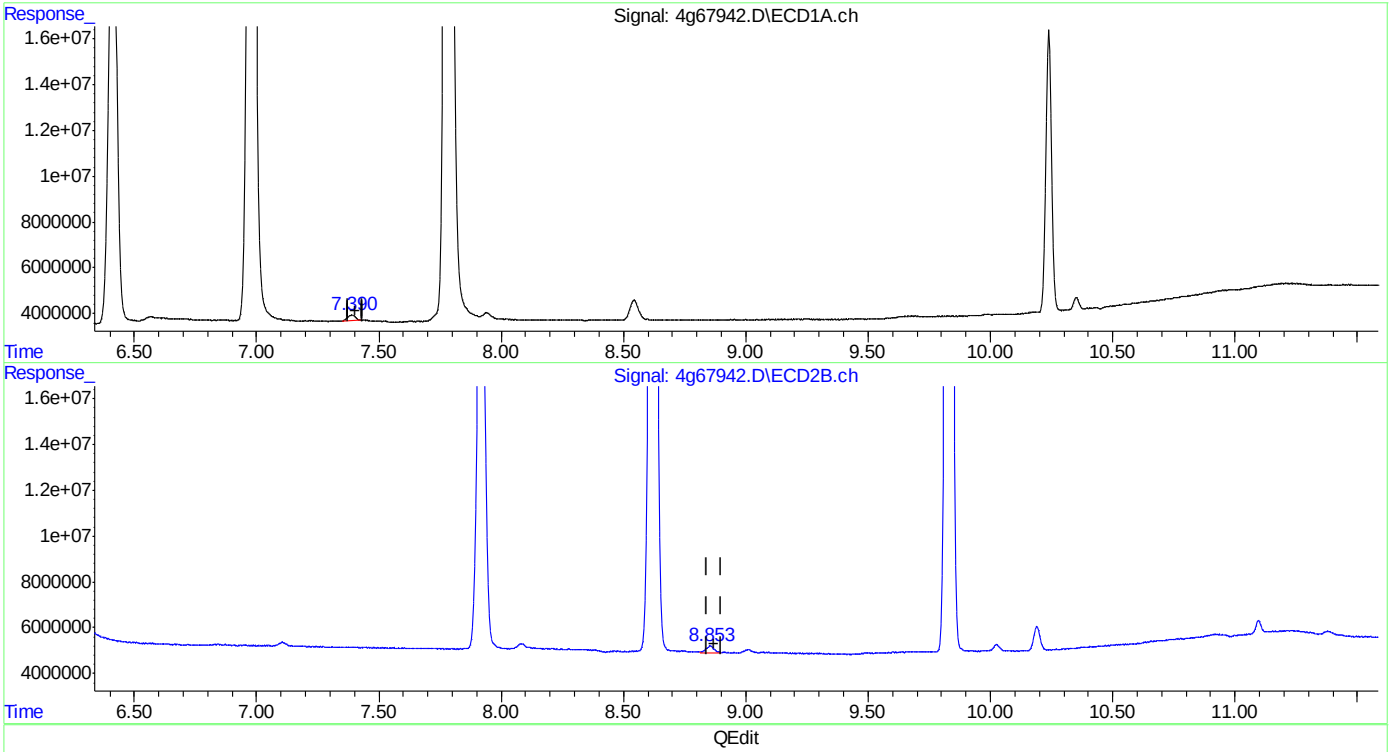
(+) = Expected Retention Time
4PST1778.M Fri May 06 09:37:10 2016 RPT1

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 JC19473

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

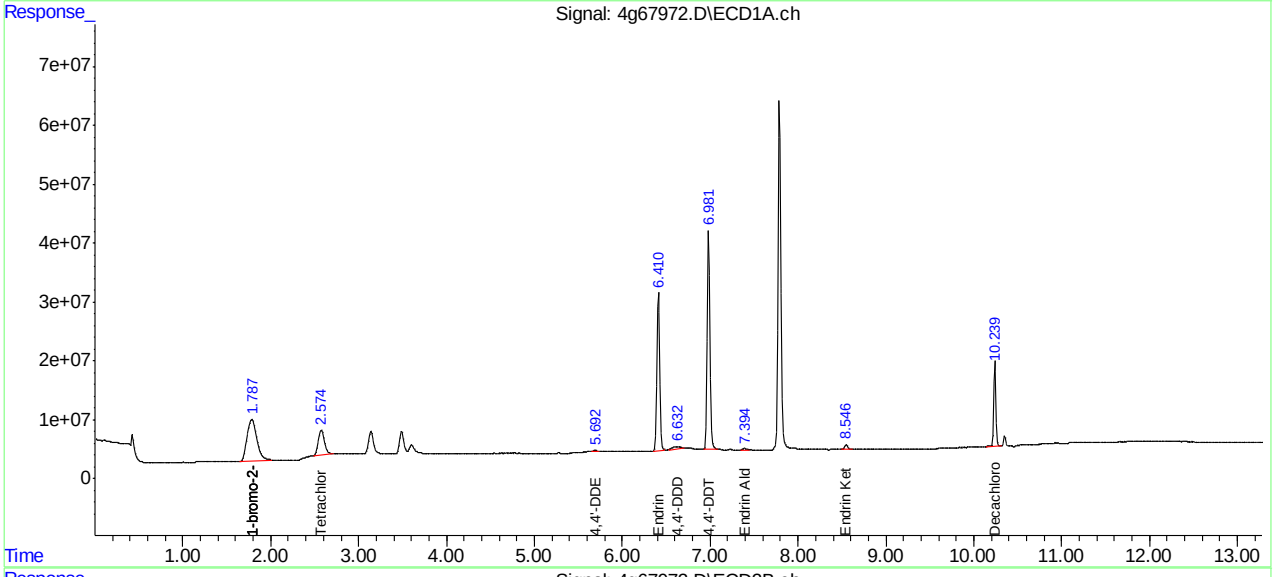
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

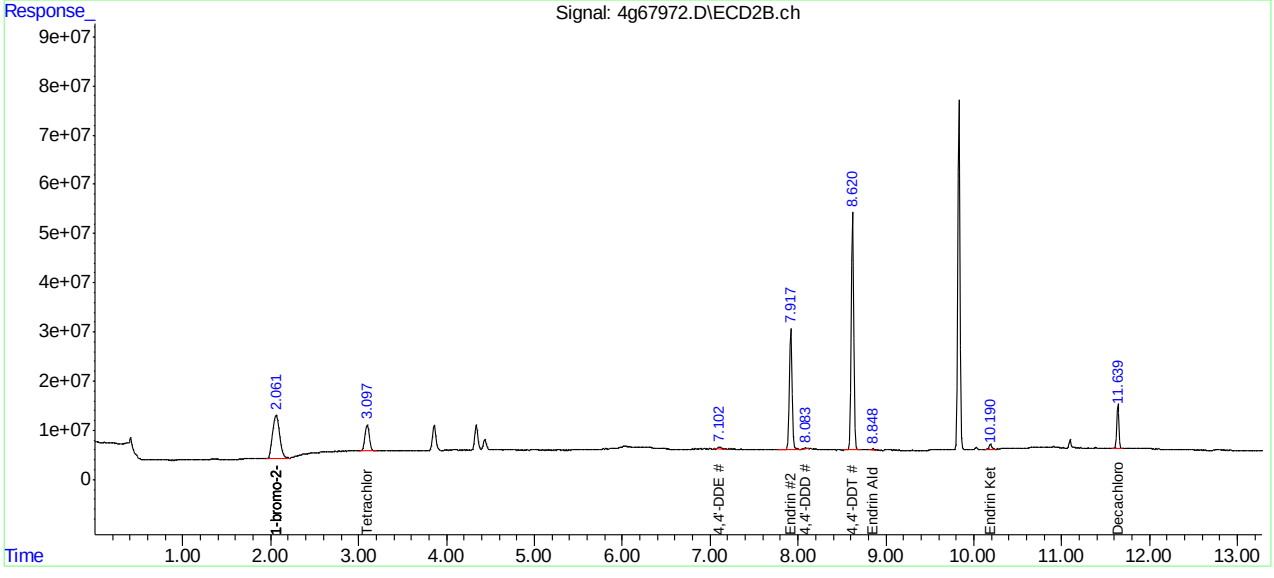
Quantitation Report (QT Reviewed)

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

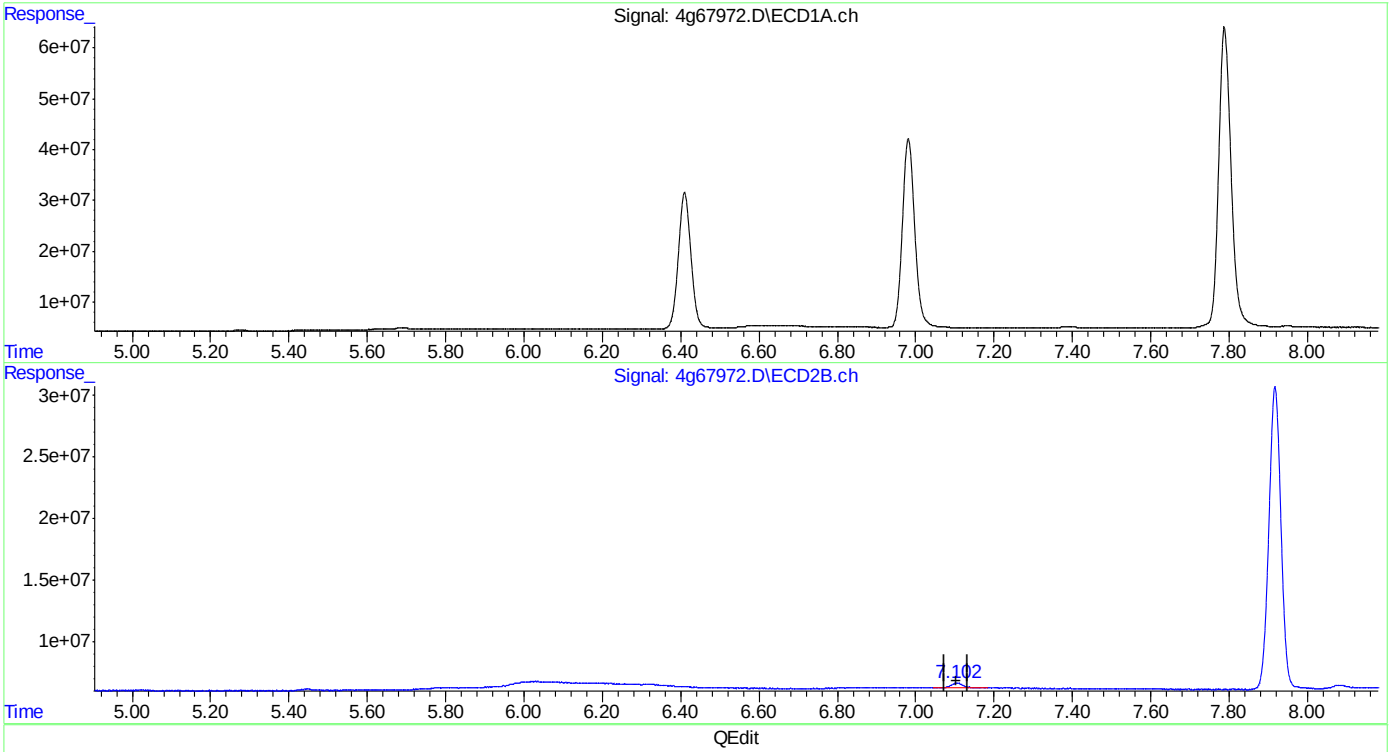
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	5.69	Poor instrument integration
4,4'-DDD	72-54-8	1	6.63	Poor instrument integration
4,4'-DDD	72-54-8	2	8.08	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.85	Poor instrument integration

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



(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

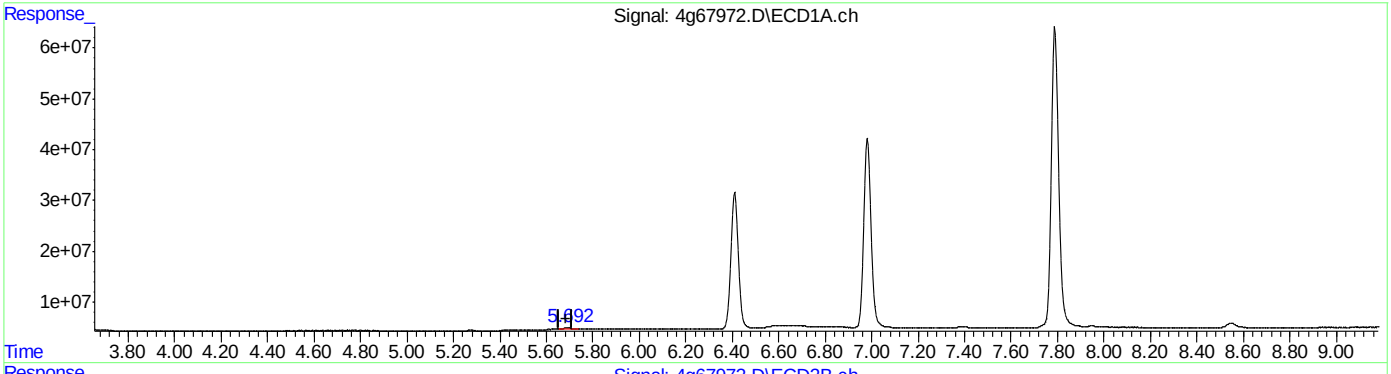
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:18:34 2016 RPT1

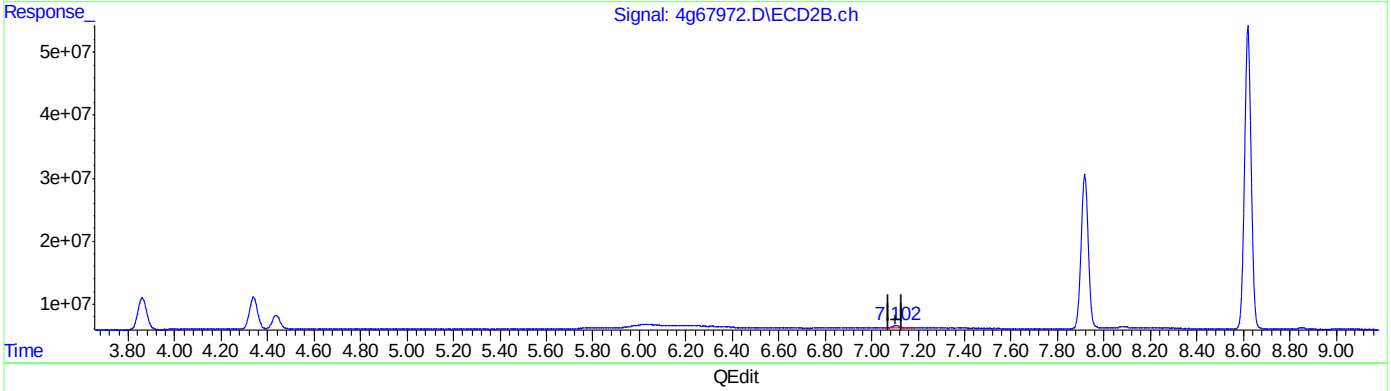
Quantitation Report (Qedit)

```
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

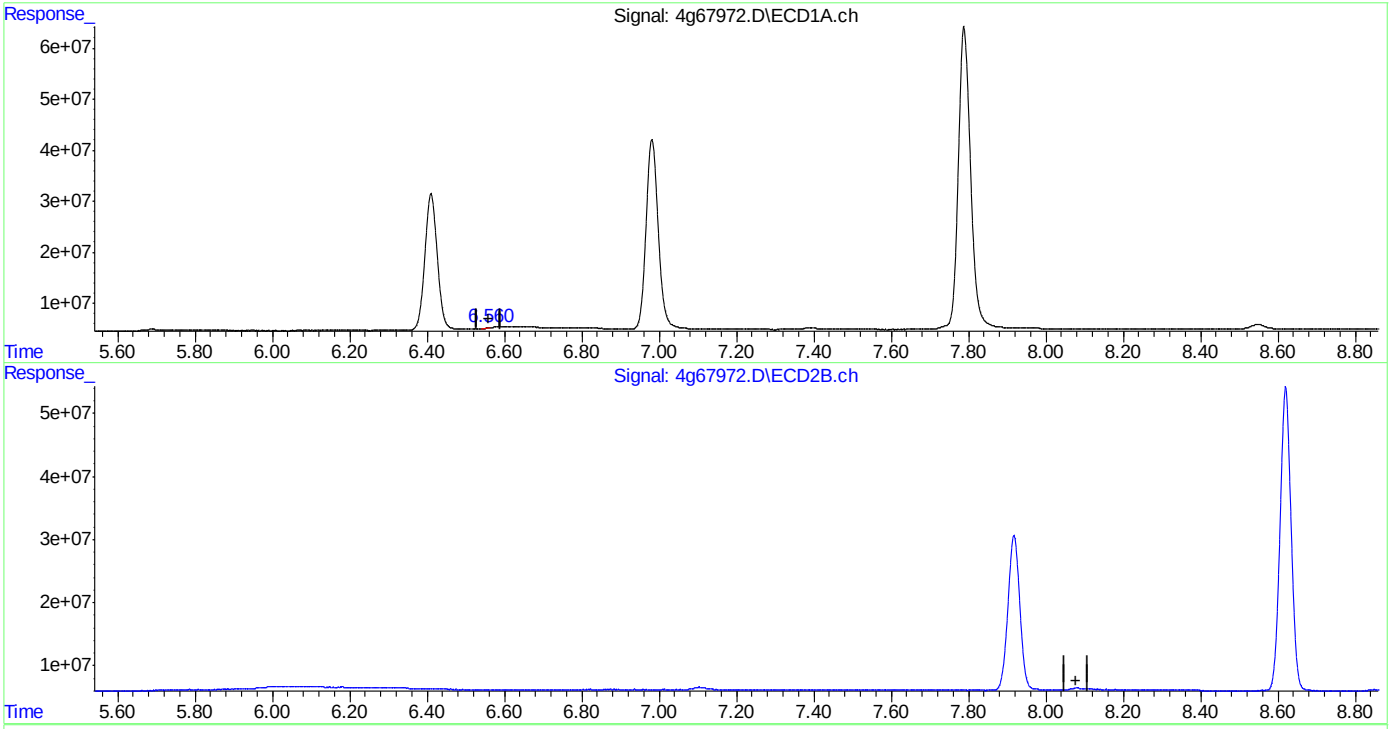
4PST1778.M Fri May 06 18:18:47 2016 RPT1

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

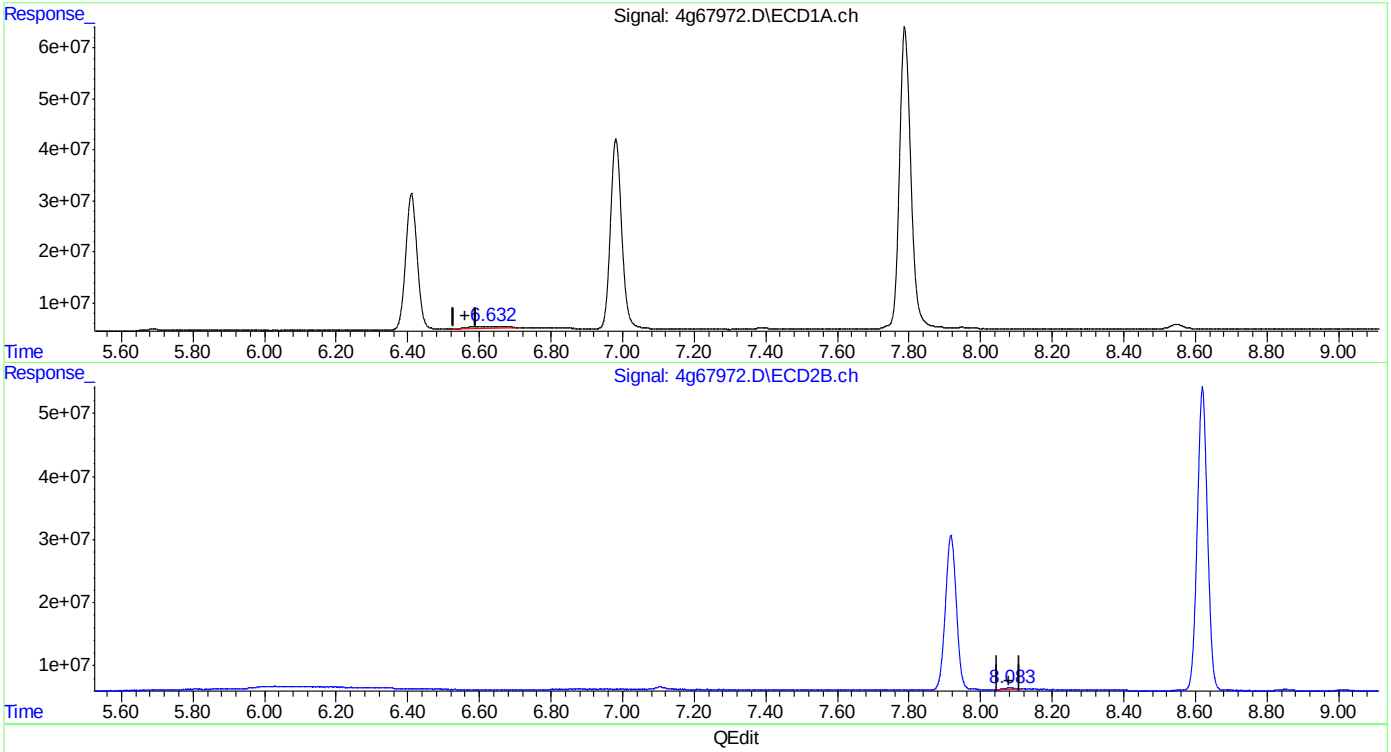
SGS ACCUTEST JC19473

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

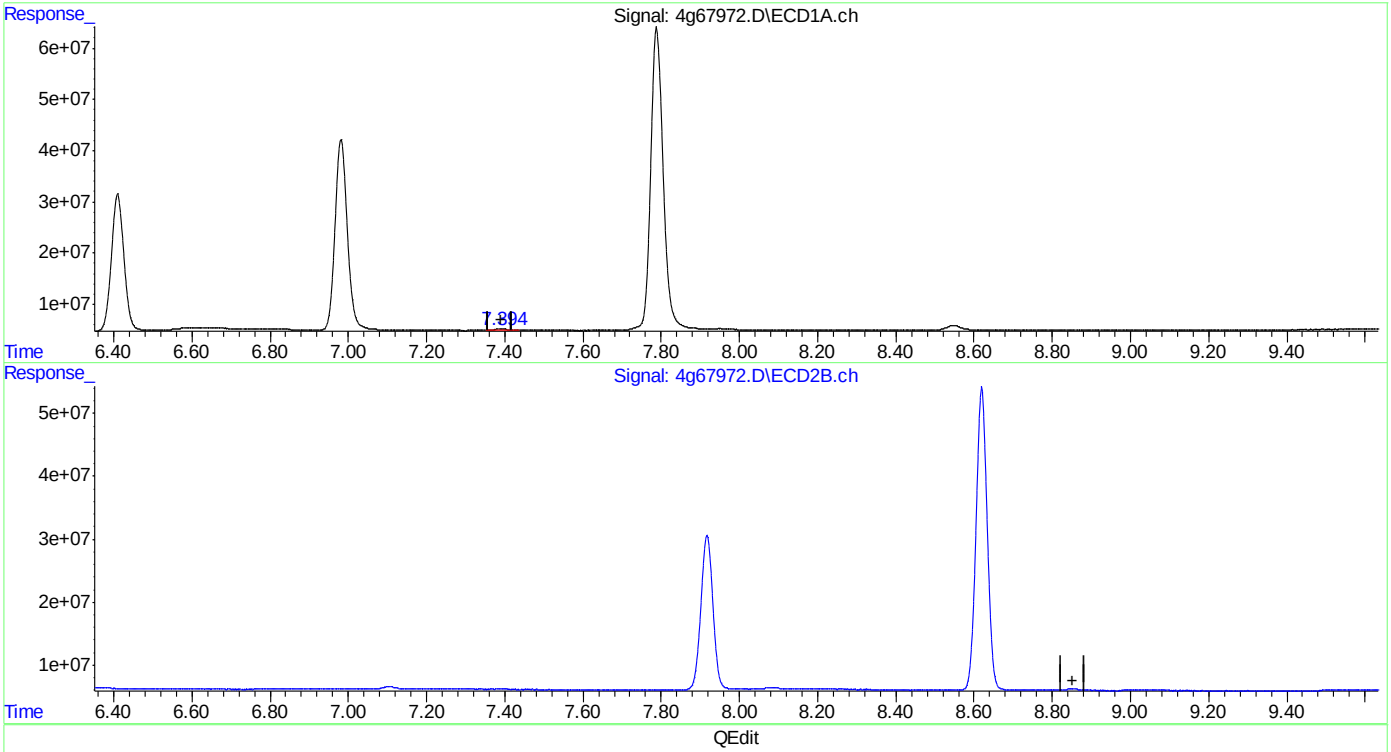
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:19:29 2016 RPT1

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

(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

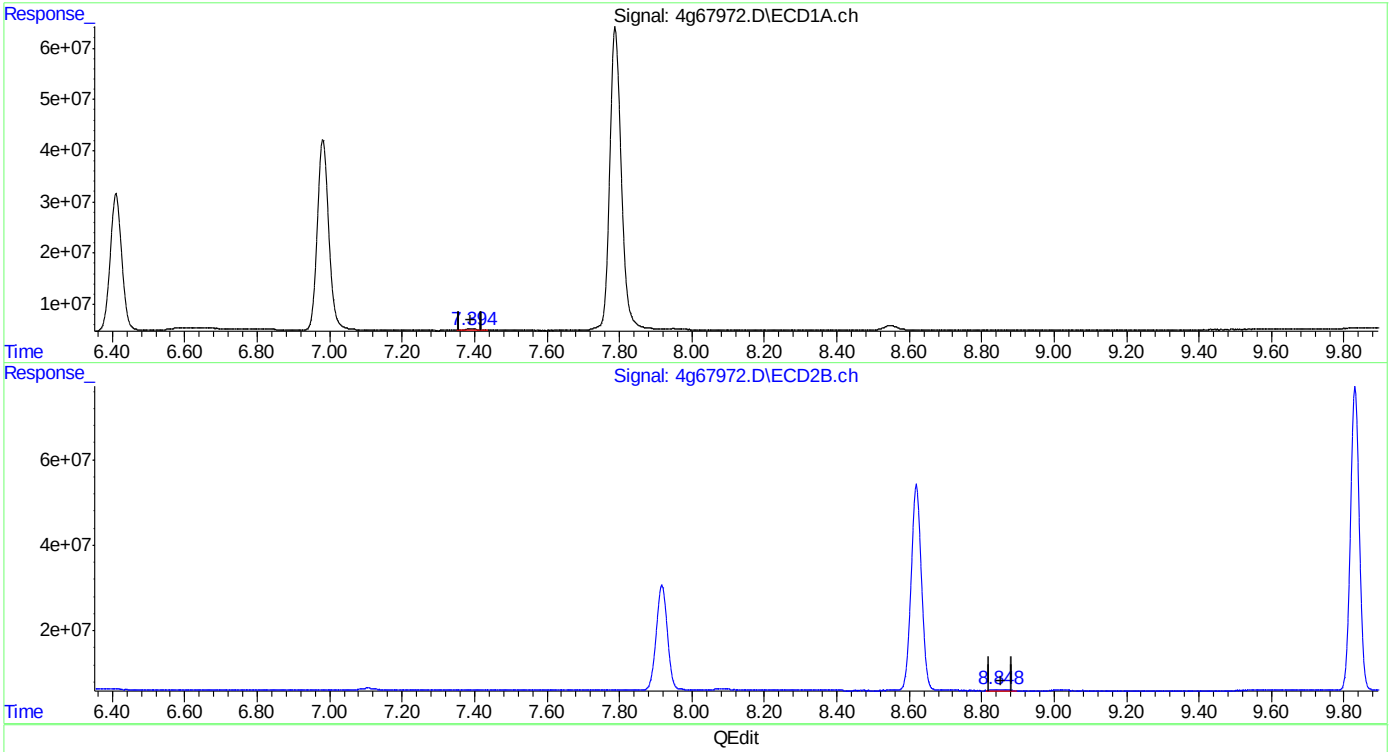
SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:42:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.320	1.584	129.3E6	43986456	50.000	50.000
25) I	1-bromo-2...	1.320	1.584	129.3E6	43986456	50.000	50.000
31) I	1-bromo-2...	1.320	1.584	129.3E6	43986456	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.995	2.479	45371018	16357012	19.148	20.583
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 47.87%	51.46%
24) SAB	Decachlor...	9.934	11.769	44657093	13929406	21.674	23.312
	Spiked Amount	40.000			Recovery	= 54.18%	58.28%
	Target Compounds						
13) B	4,4'-DDE	4.944	6.453	1018177	323855	0.498m	0.455m
15) MA	Endrin	5.682	7.268	120.9E6	37292116	55.394	50.157
16) A	4,4'-DDD	5.833	7.488	1311683	538829	0.759m	0.878m
18) MA	4,4'-DDT	6.281	8.068	241.7E6	69919881	128.653	125.525
19) B	Endrin Al...	6.695	8.285	837149	354536	0.477m	0.601m#
23) B	Endrin Ke...	7.904	9.843	4035110	1631820	1.794	2.182

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

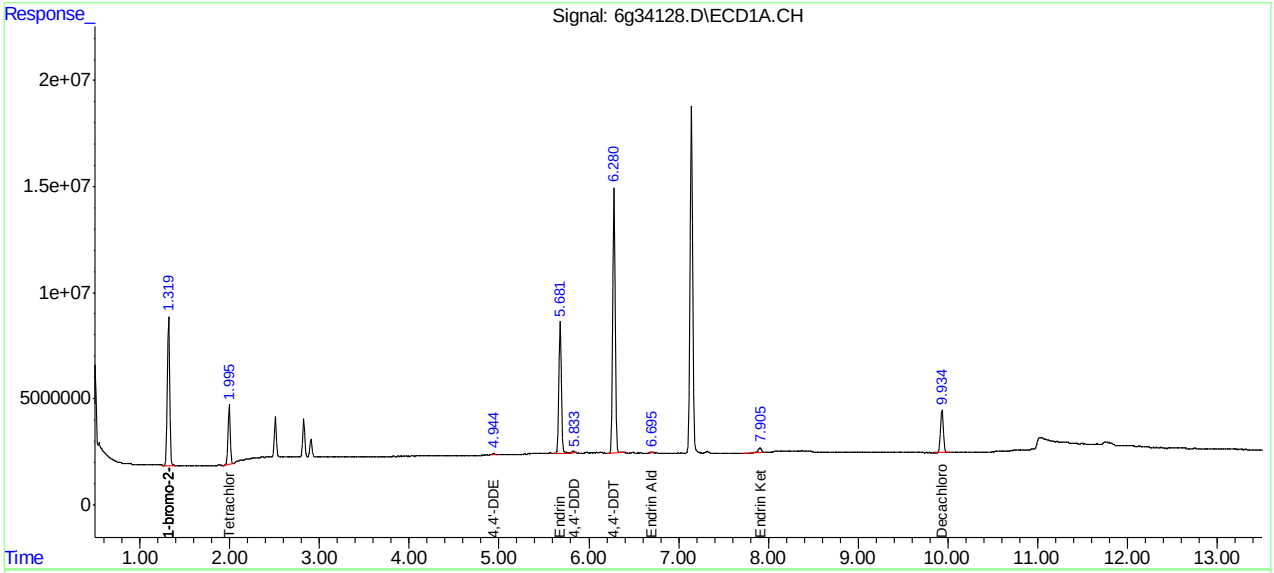
9.5.4
9

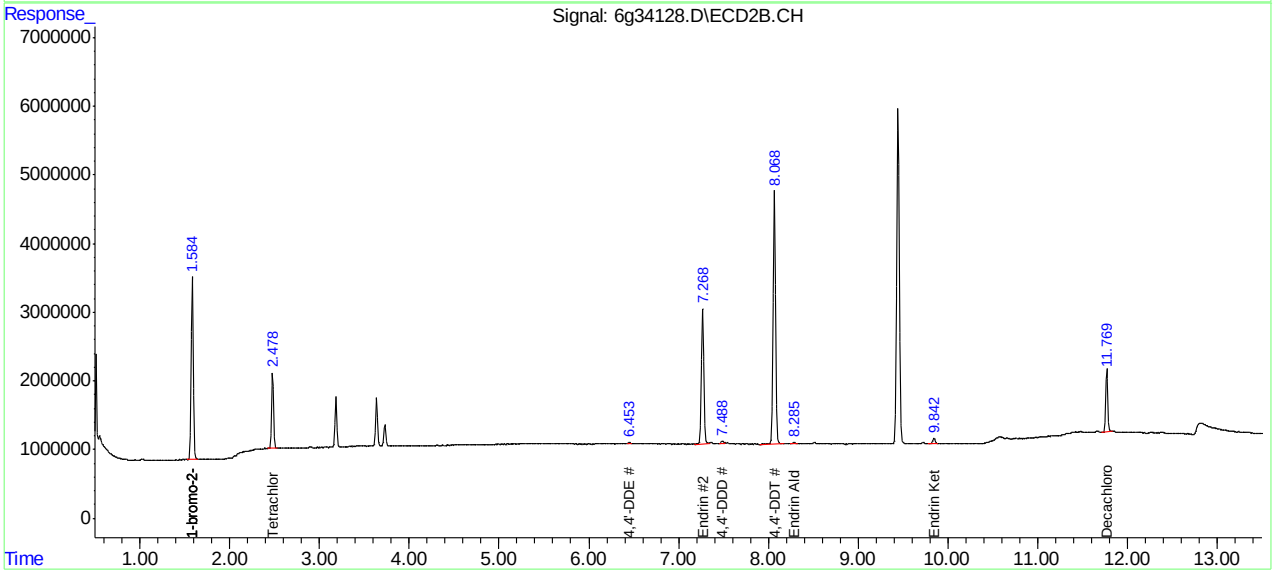
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:42:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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:	G6G987-DDT	**Method:**	SW846 8081B
Lab FileID:	6G34128.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 15:16	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

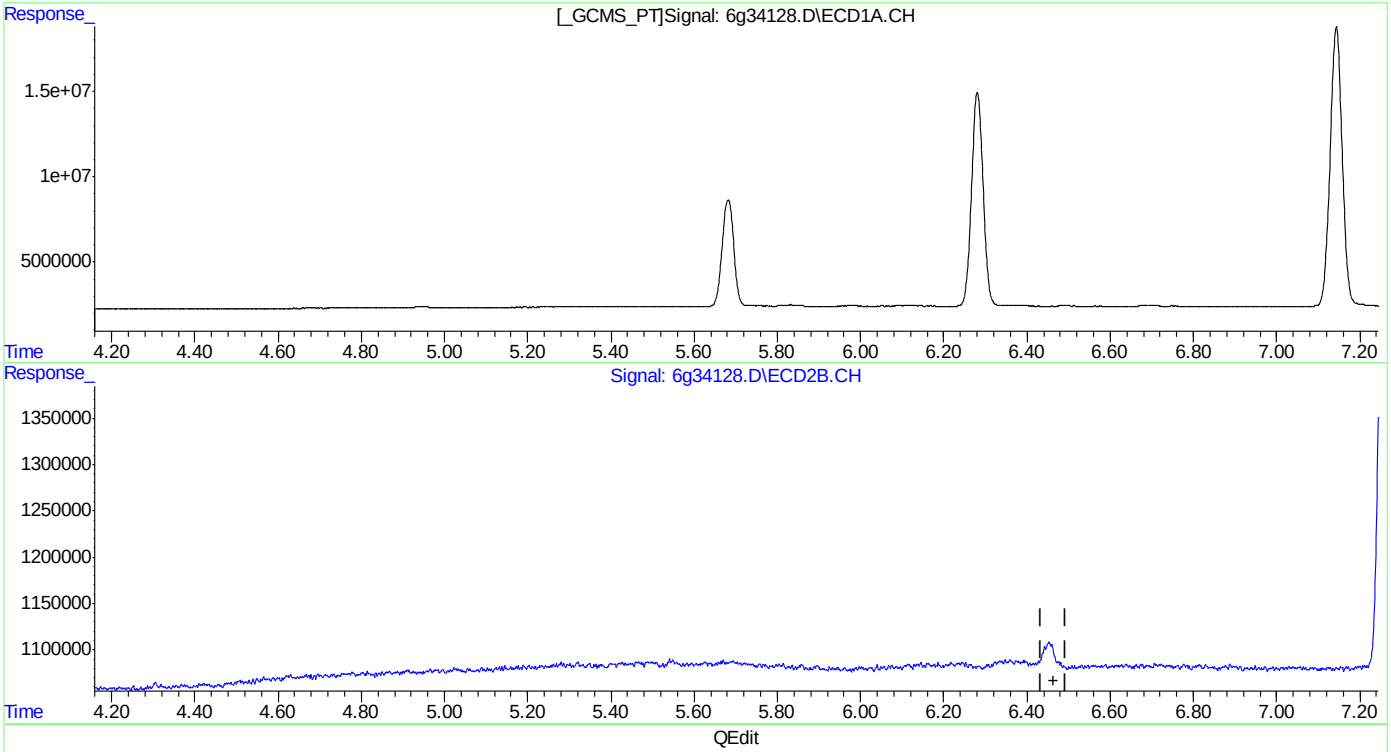
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.94	Poor instrument integration
4,4'-DDD	72-54-8	1	5.83	Poor instrument integration
4,4'-DDE	72-55-9	2	6.45	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.70	Poor instrument integration
4,4'-DDD	72-54-8	2	7.49	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.28	Poor instrument integration

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 14 Apr 2016   3:16 pm
Operator  : dharas
Sample    : ddt
Misc      : op92908,g6g987,6.8,,,10,5
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title  : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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
```



QEdit

(13) 4,4'-DDE (B)
0.000min 0.000PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time

6PST987.M Mon Apr 18 11:41:26 2016

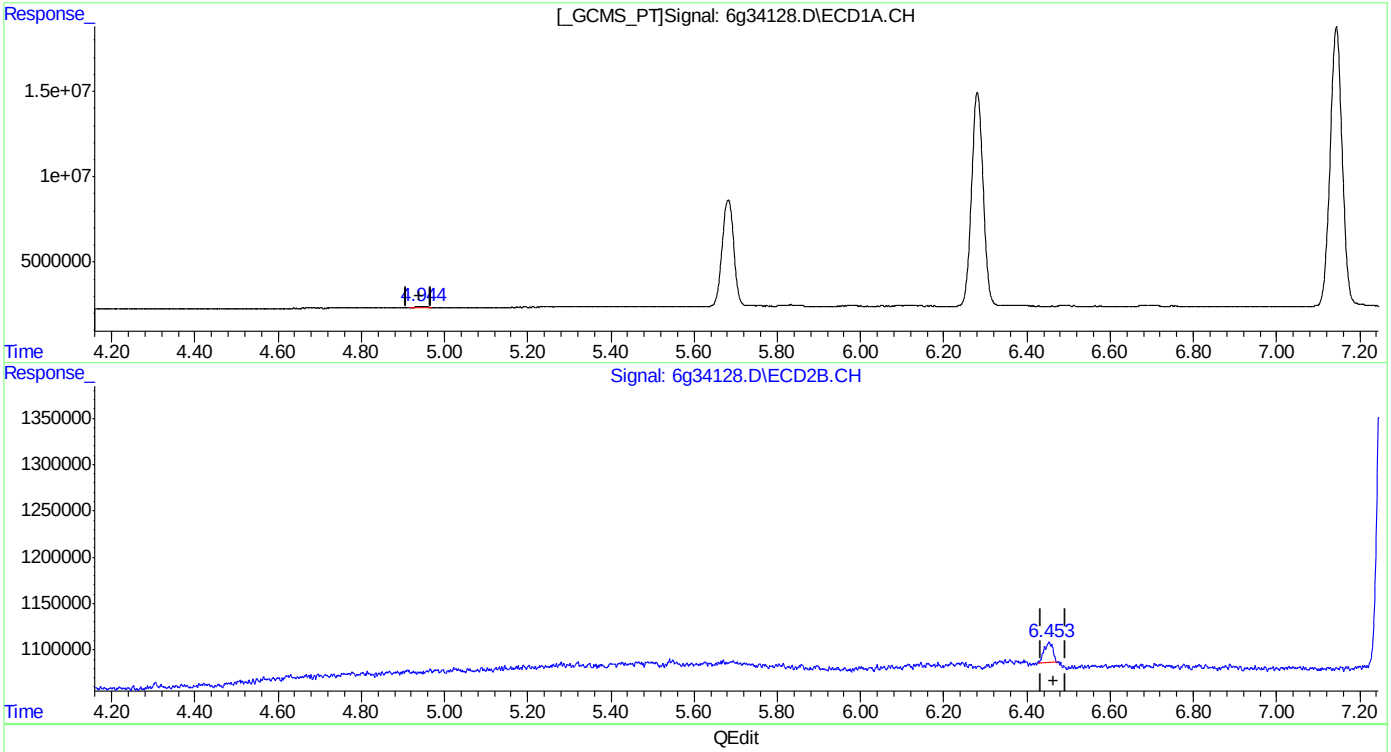
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(13) 4,4'-DDE (B)
4.944min 0.498PPB m
response 1018177

(13) 4,4'-DDE #2 (B)
6.453min 0.455PPB m
response 323855

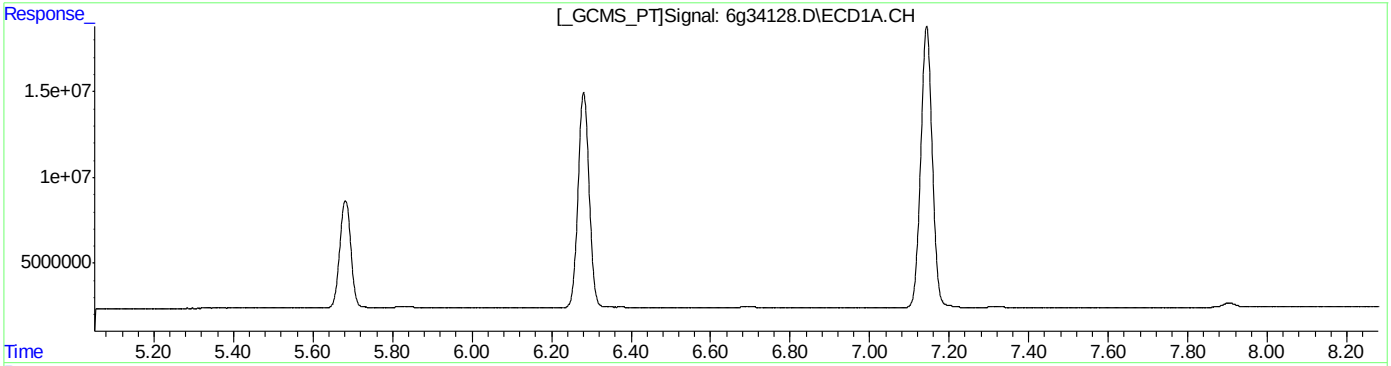
(+) = Expected Retention Time

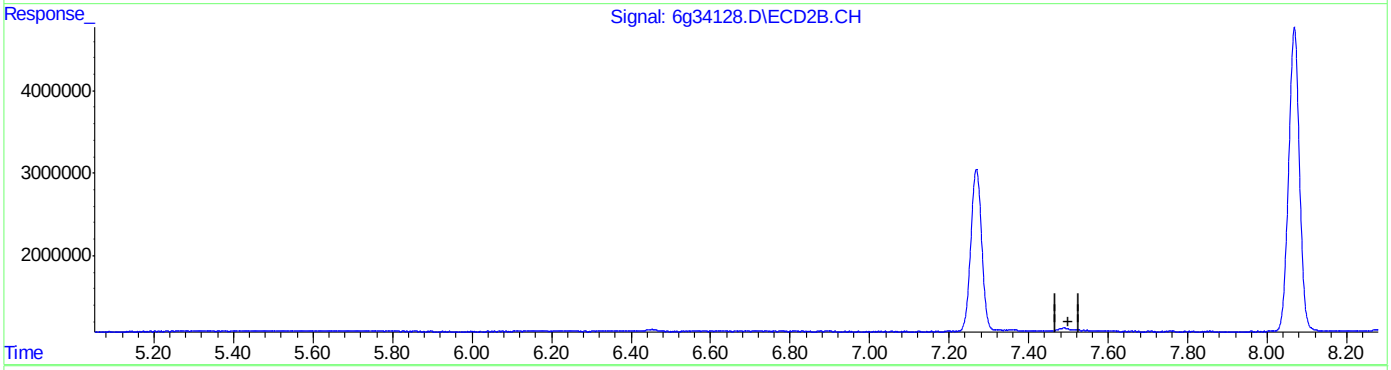
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(16) 4,4'-DDD (A)
0.000min 0.000PPB
response 0

(16) 4,4'-DDD #2 (A)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time

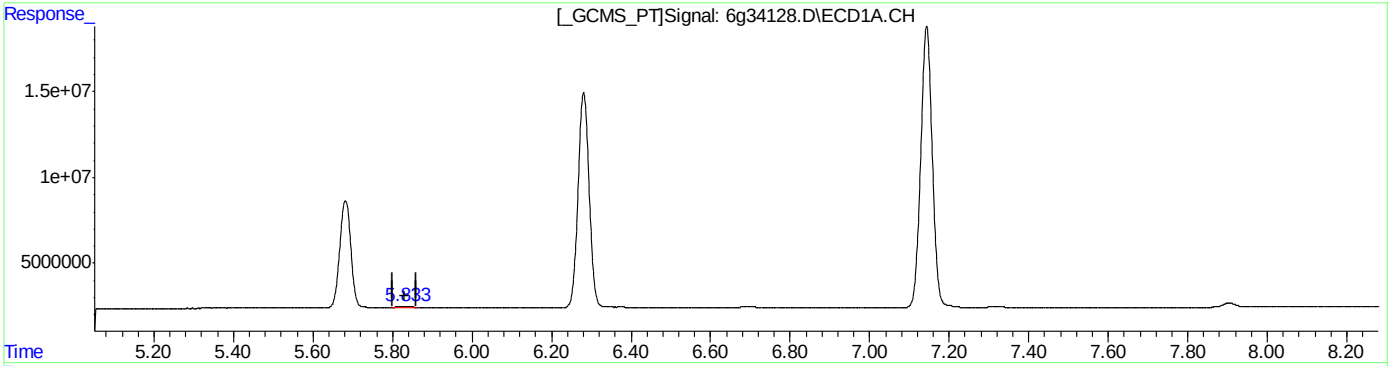
SGS ACCUTEST JC19473

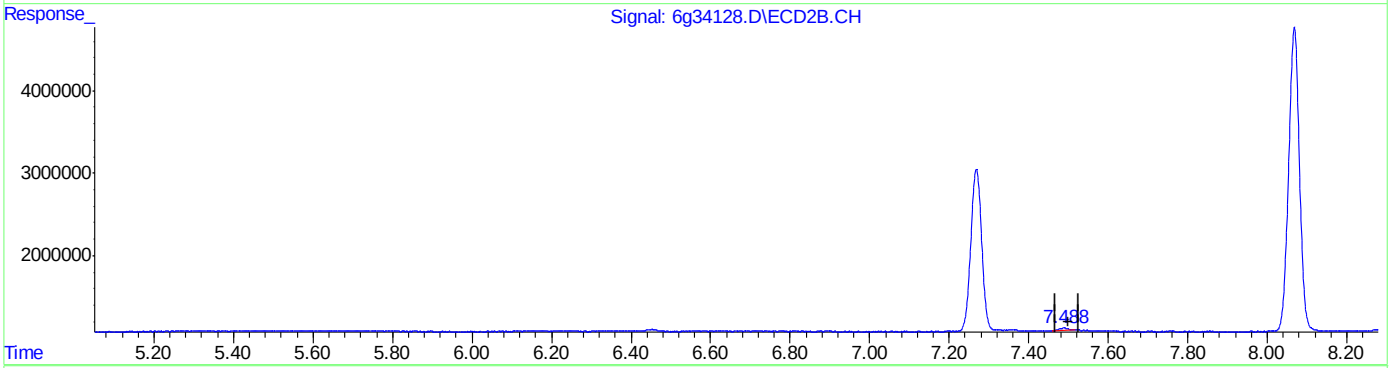
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(16) 4,4'-DDD (A)
5.833min 0.759PPB m
response 1311683

(16) 4,4'-DDD #2 (A)
7.488min 0.878PPB m
response 538829

(+) = Expected Retention Time
6PST987.M Mon Apr 18 11:42:19 2016

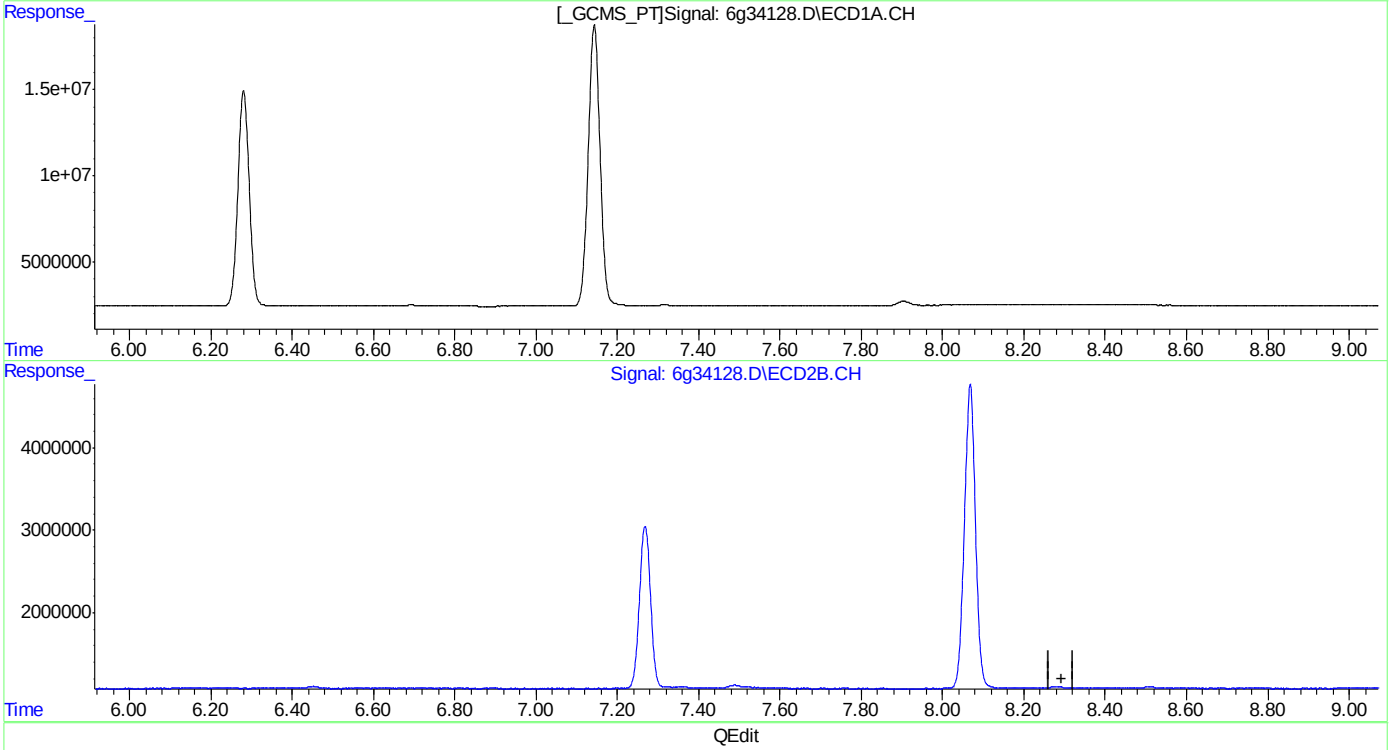
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) Endrin Aldehyde (B)
0.000min 0.000PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Mon Apr 18 11:42:26 2016

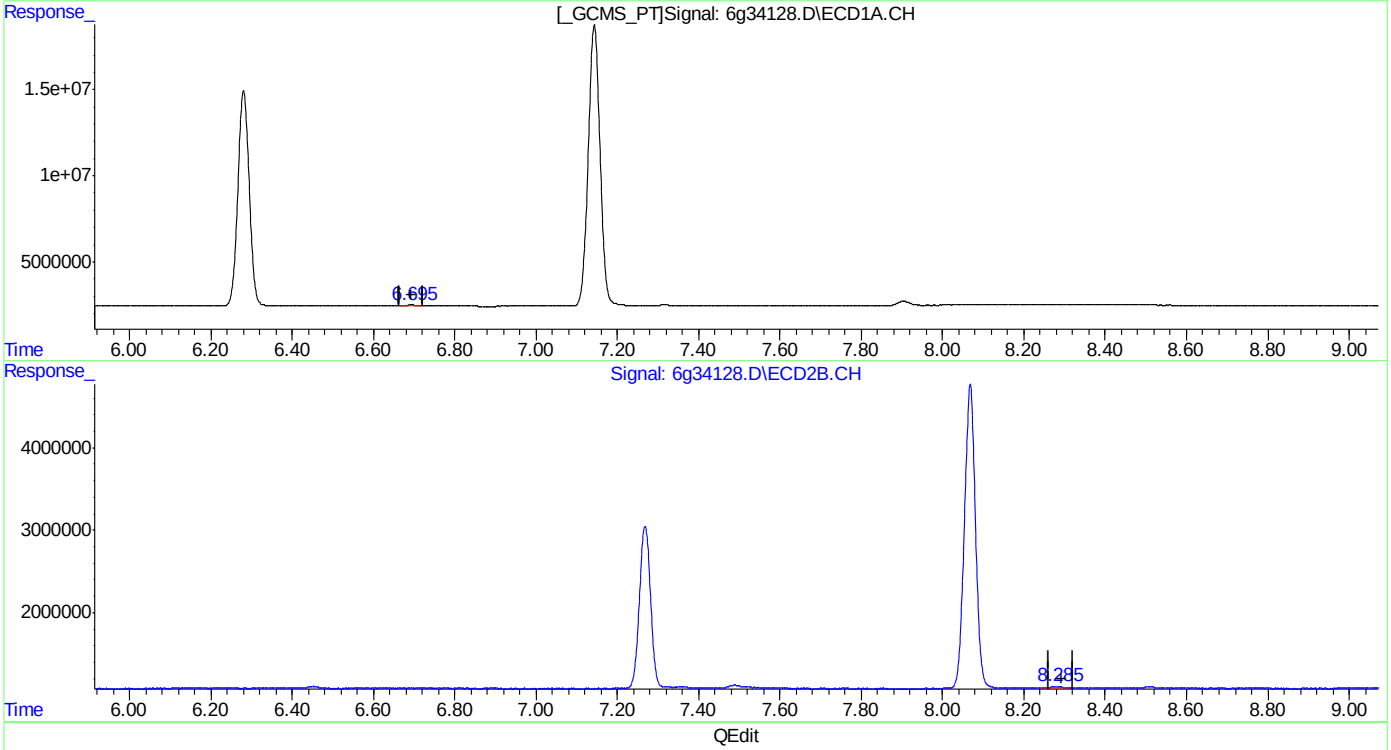
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(19) Endrin Aldehyde (B)
6.695min 0.477PPB m
response 837149

(19) Endrin Aldehyde #2 (B)
8.285min 0.601PPB m
response 354536

(+) = Expected Retention Time
6PST987.M Mon Apr 18 11:42:42 2016

SGS ACCUTEST JC19473

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/03/16 12:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:08 am
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 11:31:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.299	1.571	144.4E6	53224391	50.000	50.000
25) I	1-bromo-2...	1.299	1.571	144.4E6	53224391	50.000	50.000
31) I	1-bromo-2...	1.299	1.571	144.4E6	53224391	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.975	2.466	55168240	19850935	20.850	20.644
Spiked Amount		40.000	Range	30 - 150	Recovery	= 52.13%	51.61%
24) SAB	Decachlor...	9.903	11.750	48285854	16538695	20.986	22.875
Spiked Amount		40.000			Recovery	= 52.47%	57.19%
	Target Compounds						
13) B	4,4'-DDE	4.916	6.427	1027308	387254	0.450m	0.450m
15) MA	Endrin	5.650	7.242	134.4E6	45557162	55.117	50.638
16) A	4,4'-DDD	5.799	7.468	2275733	1176947	1.180m	1.585m#
18) MA	4,4'-DDT	6.250	8.042	254.8E6	80225931	121.451	119.029
19) B	Endrin Al...	6.659	8.249	1023021	386060	0.522m	0.541m
23) B	Endrin Ke...	7.871	9.815	5293813	2272791	2.107	2.511m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

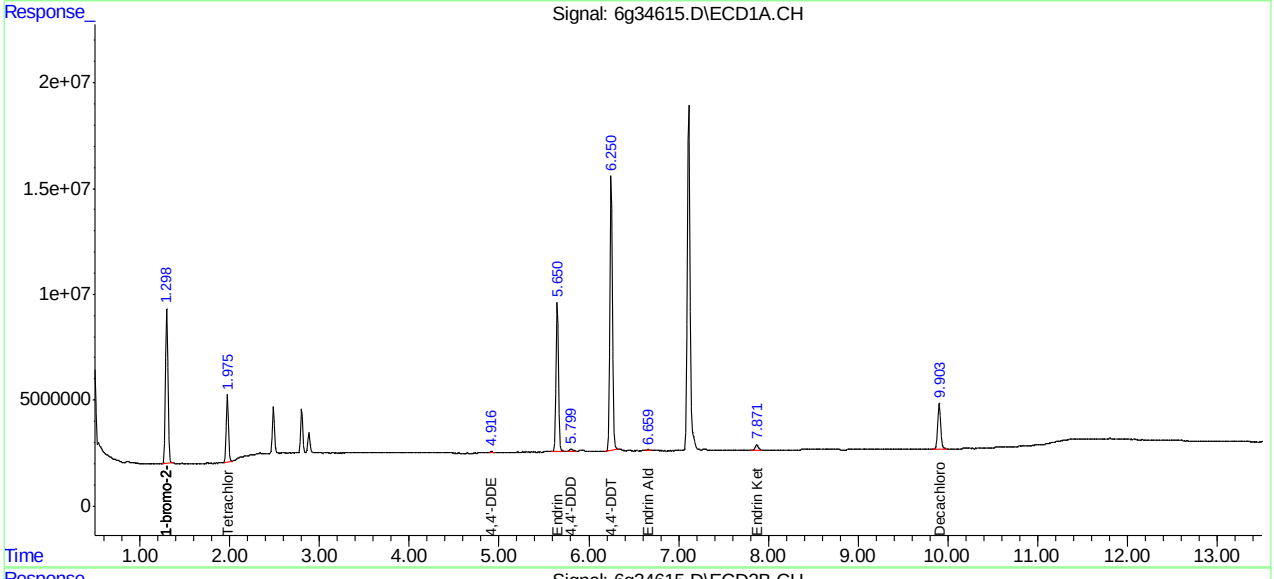
9.5.5
9

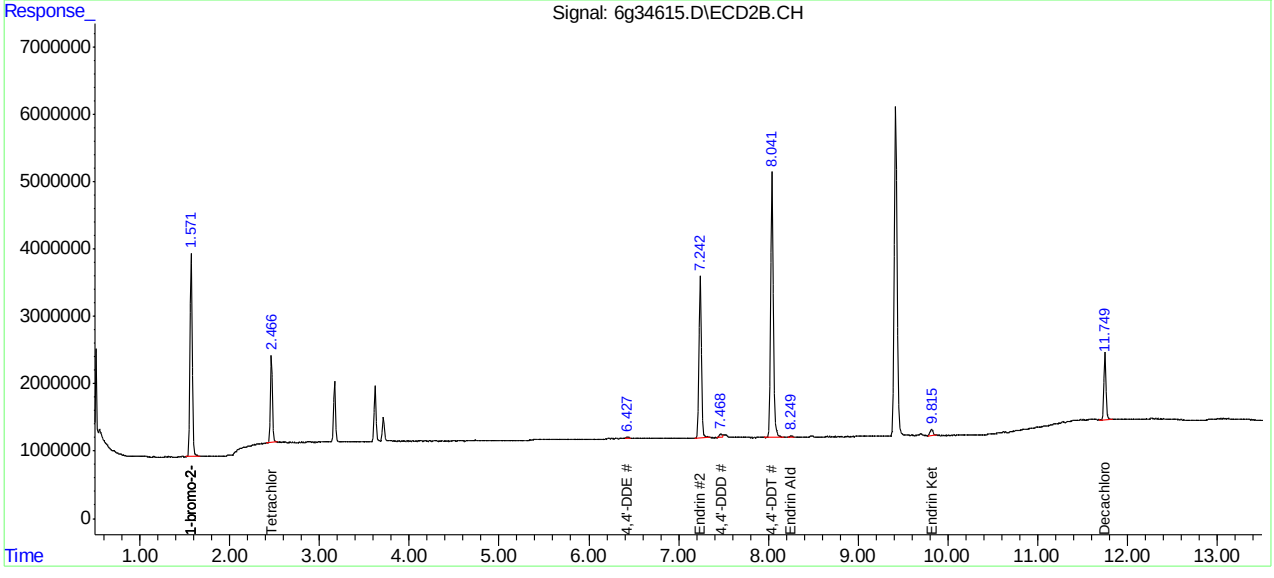
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:08 am
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 11:31:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Manual Integration Approval Summary

Sample Number:	G6G1001-DDT	**Method:**	SW846 8081B
Lab FileID:	6G34615.D	**Analyst approved:**	05/03/16 11:36 Dhara Saparia
Injection Time:	05/03/16 10:08	**Supervisor approved:**	05/03/16 12:44 Gwendolyn Burns

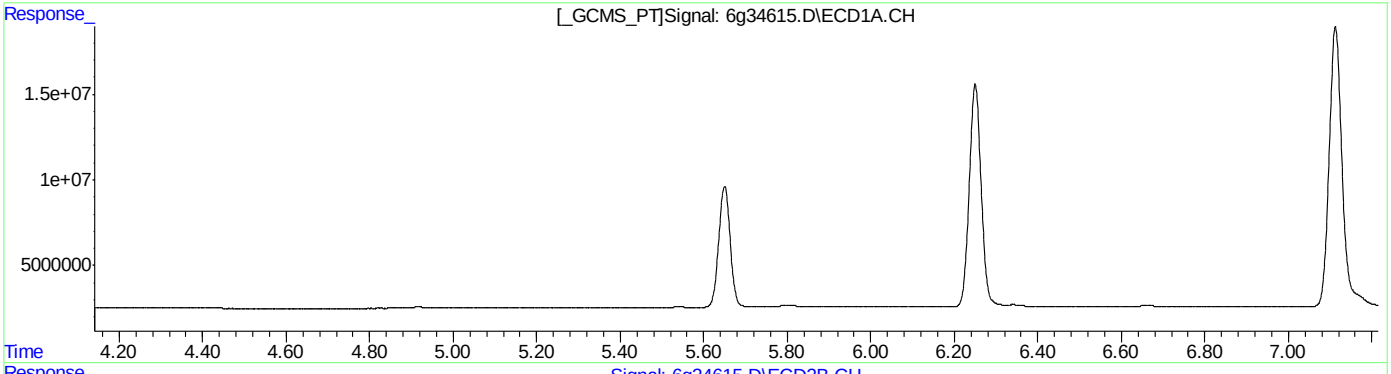
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.92	Poor instrument integration
4,4'-DDD	72-54-8	1	5.80	Poor instrument integration
4,4'-DDE	72-55-9	2	6.43	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.66	Poor instrument integration
4,4'-DDD	72-54-8	2	7.47	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.25	Poor instrument integration
Endrin ketone	53494-70-5	2	9.82	Poor instrument integration

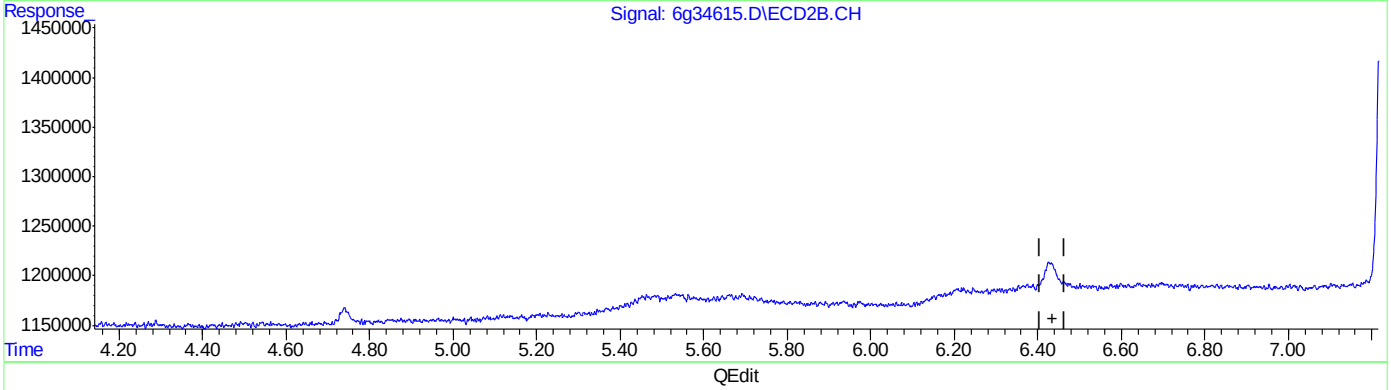
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:08 am
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 11:29:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(13) 4,4'-DDE (B)
0.000min 0.000PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000PPB
response 0

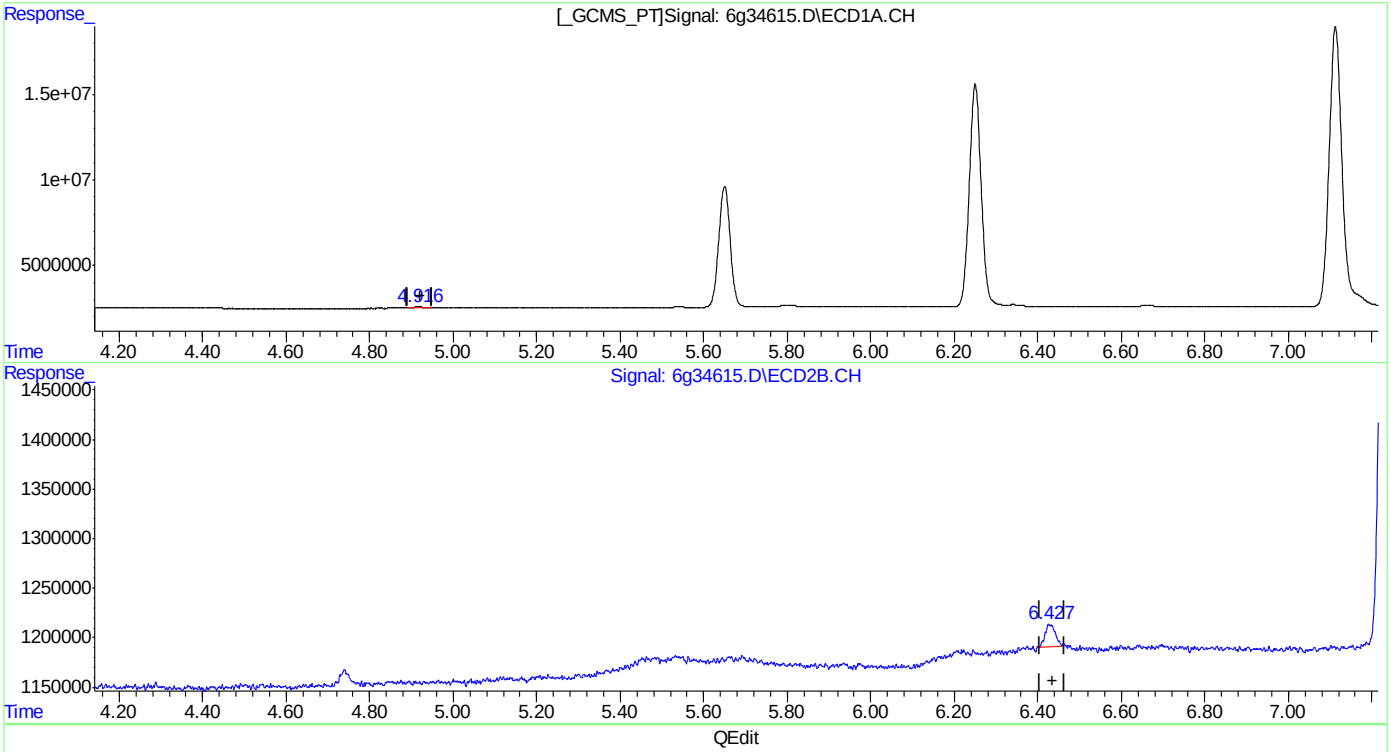
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:08 am
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 11:29:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(13) 4,4'-DDE (B)
4.916min 0.450PPB m
response 1027308

(13) 4,4'-DDE #2 (B)
6.427min 0.450PPB m
response 387254

(+) = Expected Retention Time

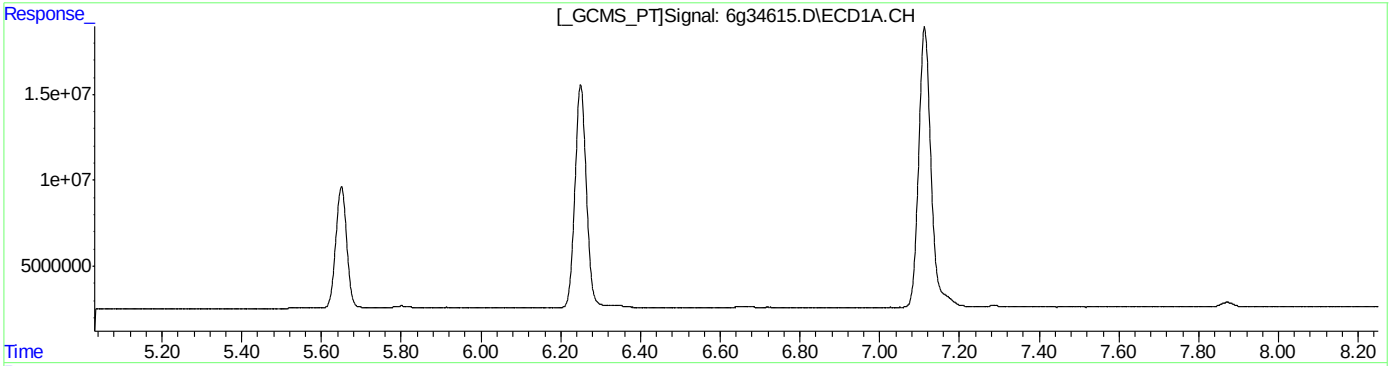
SGS ACCUTEST JC19473

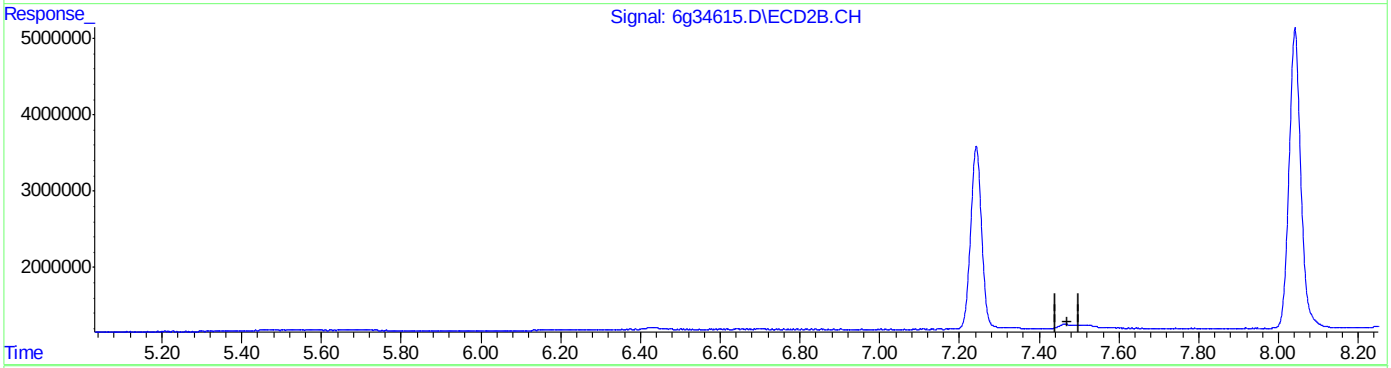
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:08 am
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 11:29:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(16) 4,4'-DDD (A)
0.000min 0.000PPB
response 0

(16) 4,4'-DDD #2 (A)
0.000min 0.000PPB
response 0

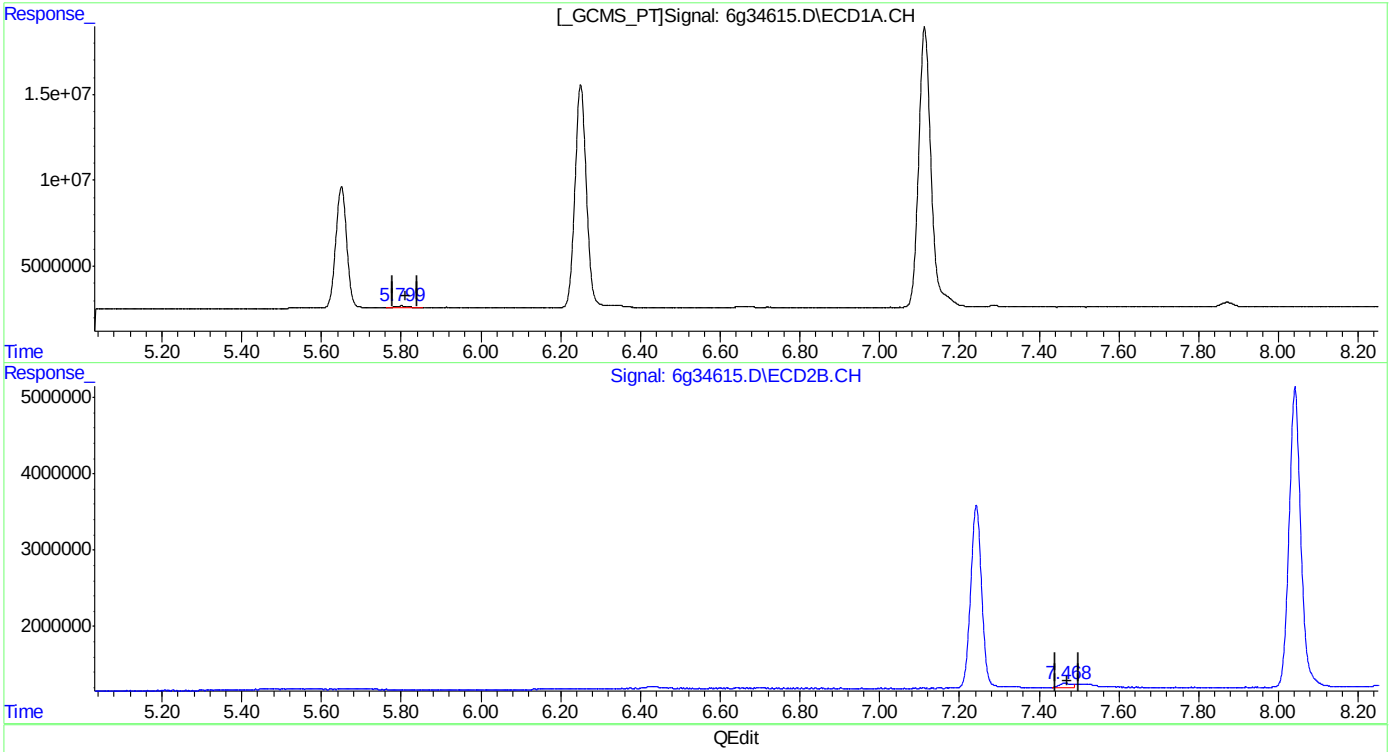
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34615.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 03 May 2016  10:08 am
Operator  : dharas
Sample    : ddt
Misc      : op93532,g6g1001,15.7,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 11:29:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title  : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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
```



QEdit

(16) 4,4'-DDD (A)
5.799min 1.180PPB m
response 2275733

(16) 4,4'-DDD #2 (A)
7.468min 1.585PPB m
response 1176947

(+) = Expected Retention Time

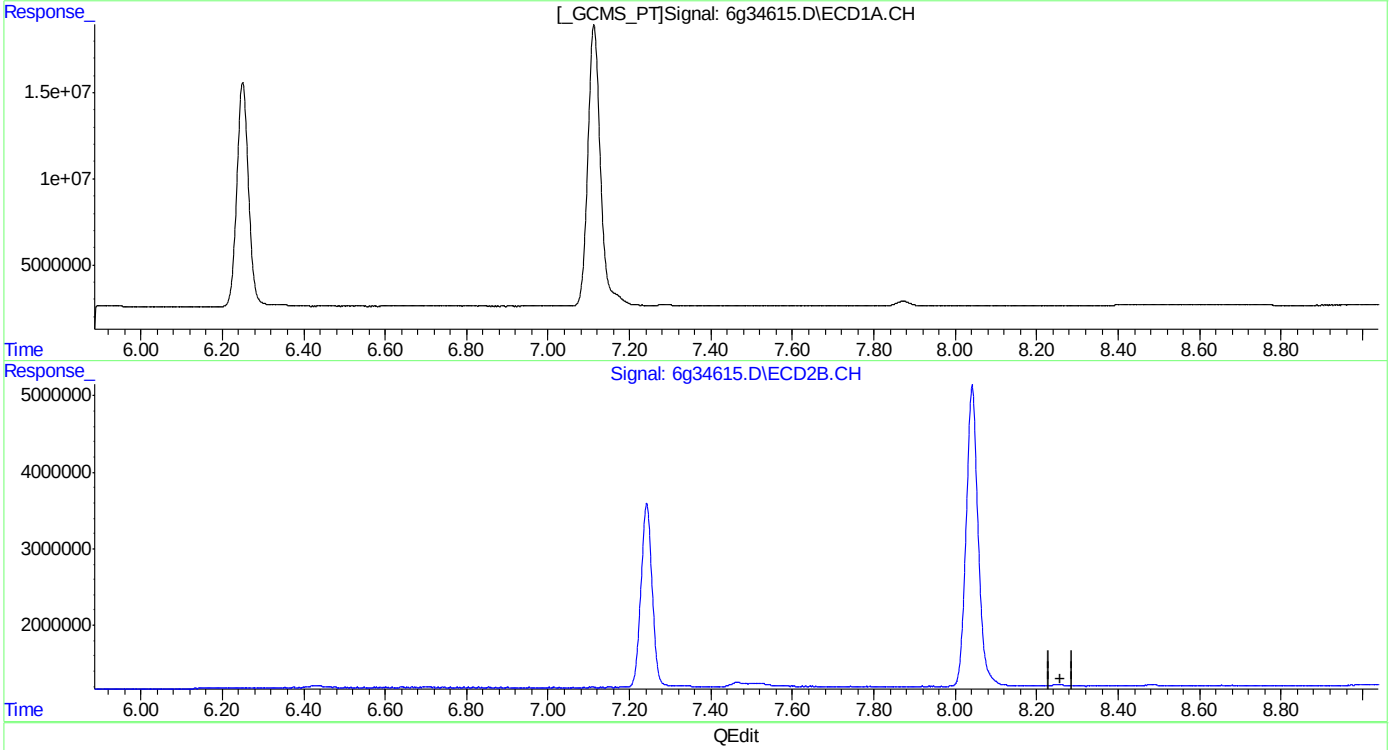
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:08 am
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 11:29:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) Endrin Aldehyde (B)
0.000min 0.000PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Tue May 03 11:30:41 2016

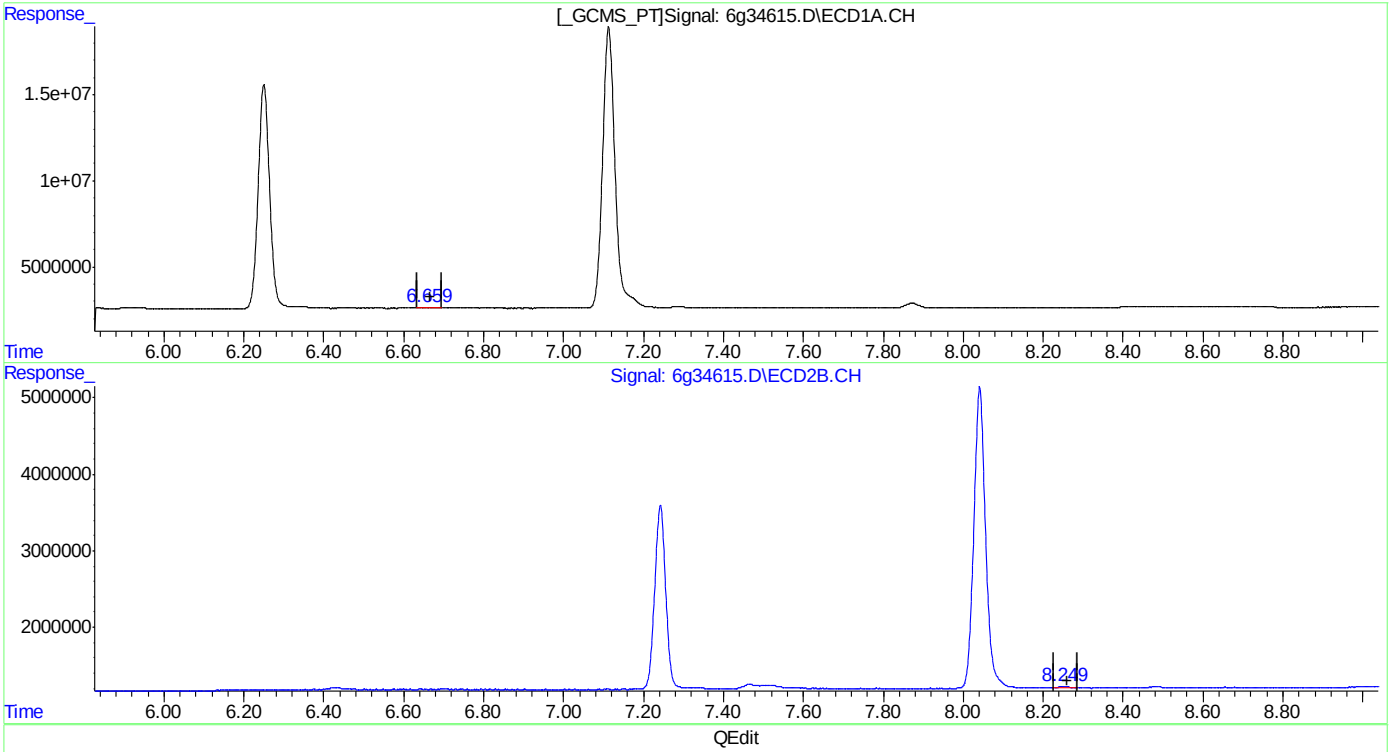
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:08 am
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 11:29:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(19) Endrin Aldehyde (B)
6.659min 0.522PPB m
response 1023021

(19) Endrin Aldehyde #2 (B)
8.249min 0.541PPB m
response 386060

(+) = Expected Retention Time
6PST987.M Tue May 03 11:30:59 2016

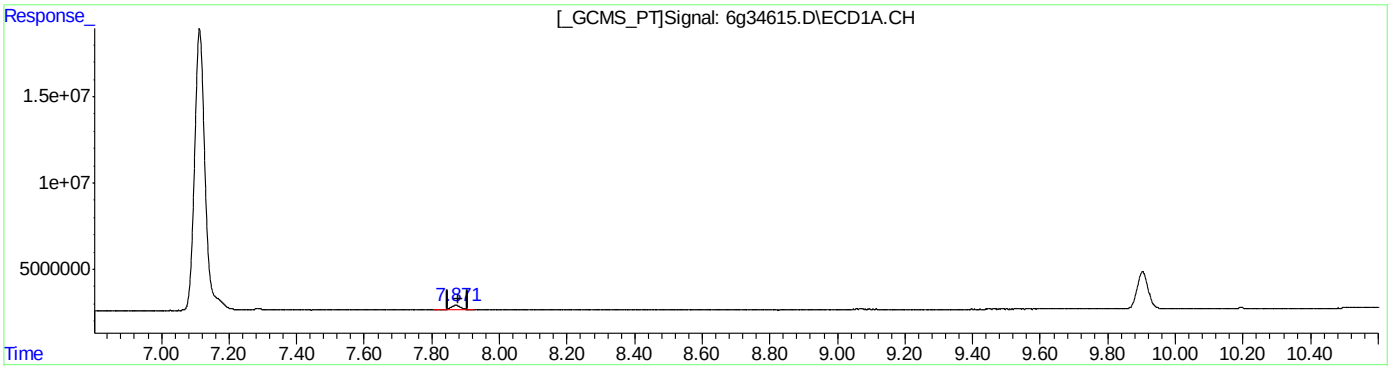
SGS ACCUTEST JC19473

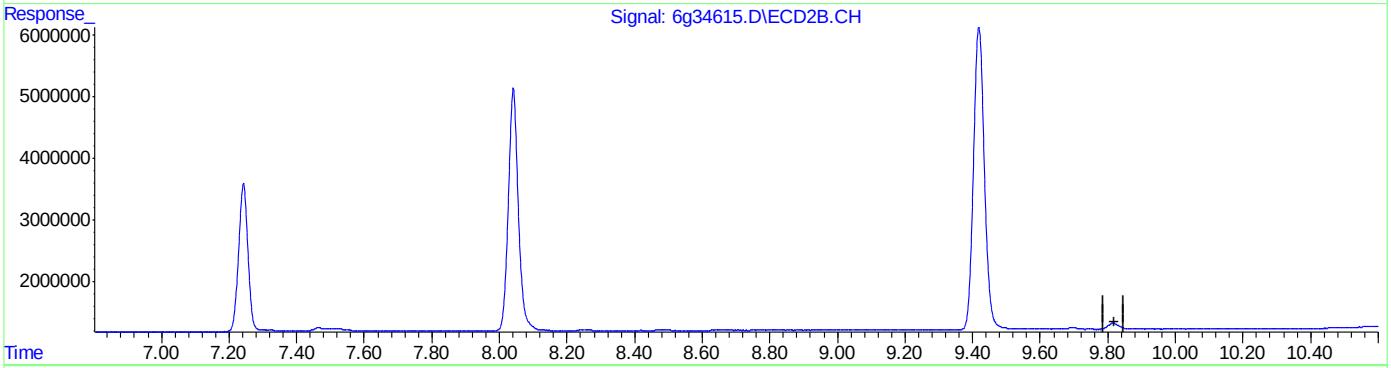
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:08 am
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 11:29:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(23) Endrin Ketone (B)
7.871min 2.107PPB
response 5293813

(23) Endrin Ketone #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Tue May 03 11:31:03 2016

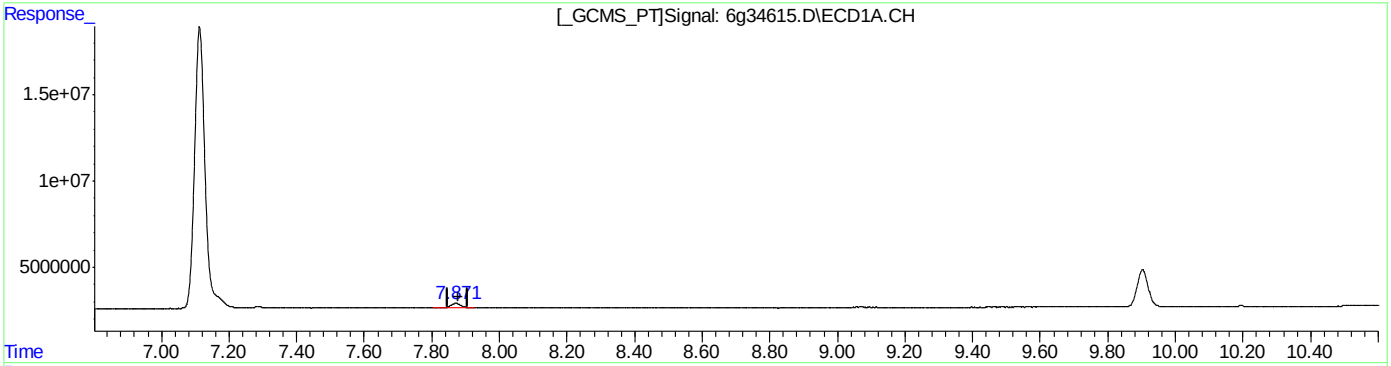
SGS ACCUTEST JC19473

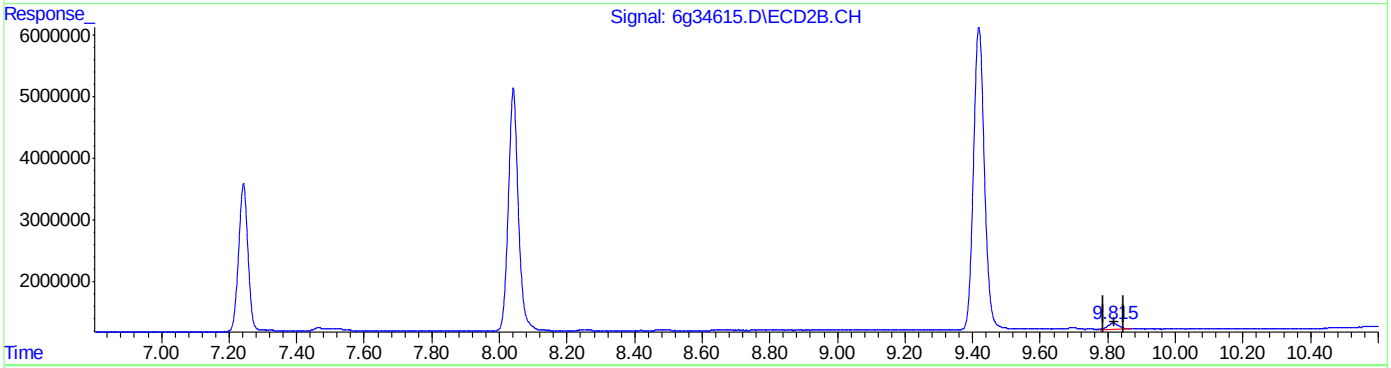
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:08 am
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 11:29:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(23) Endrin Ketone (B)
7.871min 2.107PPB
response 5293813

(23) Endrin Ketone #2 (B)
9.815min 2.511PPB m
response 2272791

(+) = Expected Retention Time
6PST987.M Tue May 03 11:31:12 2016

SGS ACCUTEST JC19473

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 5:38 pm
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.9,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 10:26:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.299	1.571	162.1E6	58418536	50.000	50.000
25) I	1-bromo-2...	1.299	1.571	162.1E6	58418536	50.000	50.000
31) I	1-bromo-2...	1.299	1.571	162.1E6	58418536	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.975	2.466	61858816	21763834	20.818	20.620
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	52.05%	51.55%
24) SAB	Decachlor...	9.901	11.745	55732480	18708122	21.571	23.575
	Spiked Amount 40.000			Recovery	=	53.93%	58.94%
	Target Compounds						
13) B	4,4'-DDE	4.917	6.426	1003561	439515	0.392m	0.465m
15) MA	Endrin	5.648	7.240	149.5E6	49677688	54.594	50.308
16) A	4,4'-DDD	5.800	7.464	1783683	1213330	0.824m	1.489m#
18) MA	4,4'-DDT	6.249	8.040	294.3E6	89543696	124.933	121.041
19) B	Endrin Al...	6.658	8.245	1287183	523158	0.585m	0.668m
23) B	Endrin Ke...	7.868	9.813	6522046	2649639	2.312	2.667

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.5.6

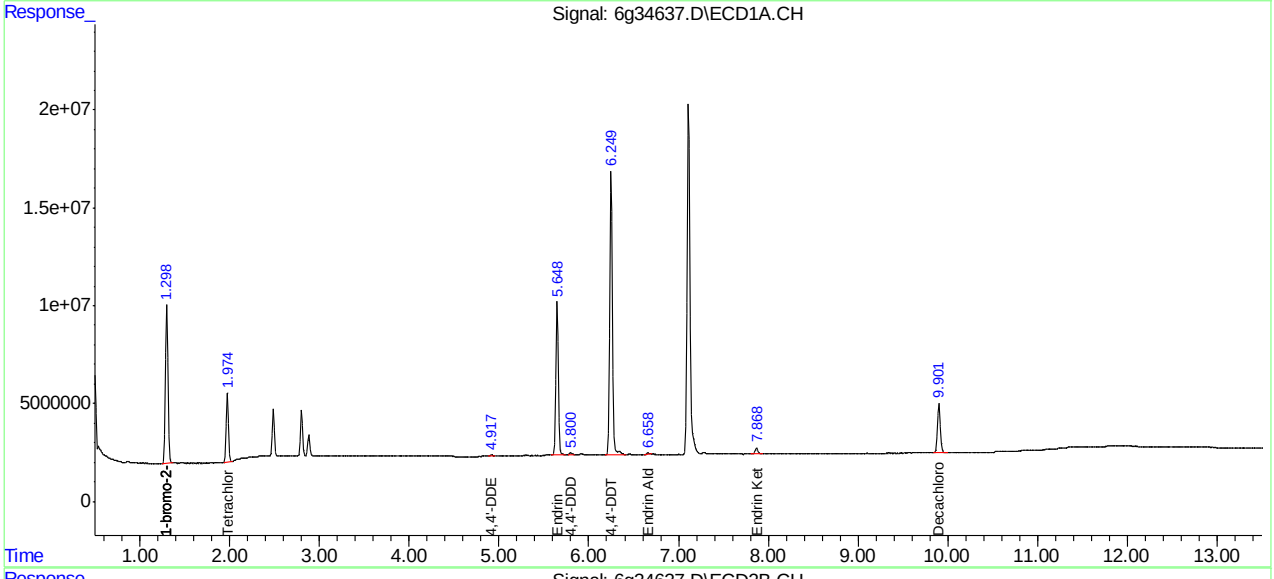
9

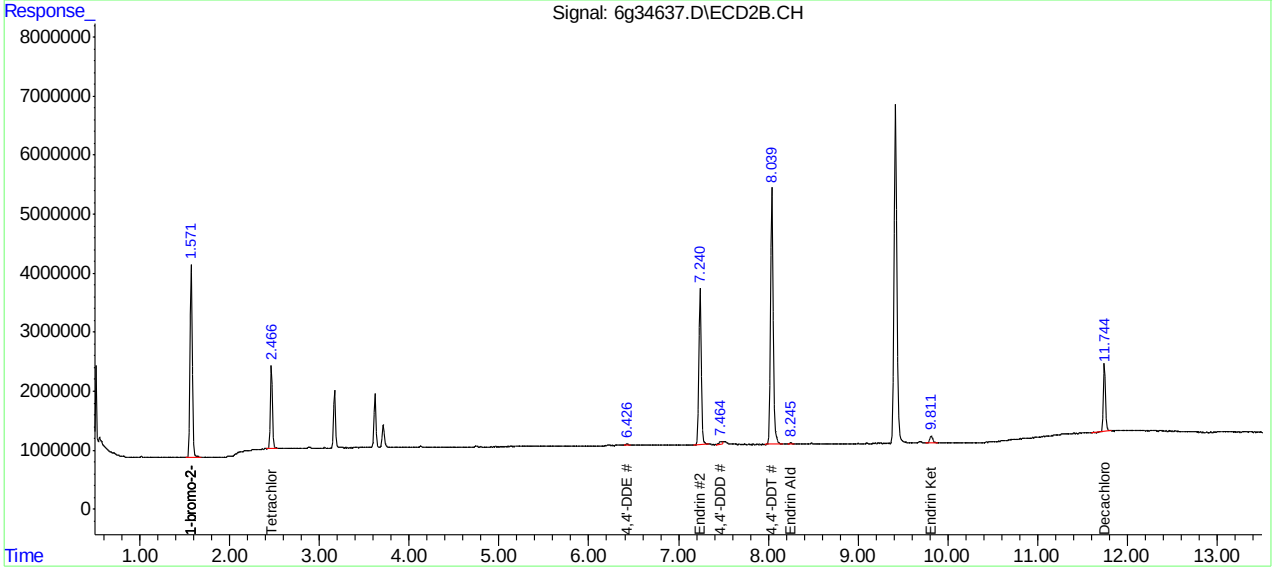
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 5:38 pm
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.9,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 10:26:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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:	G6G1001-DDT	**Method:**	SW846 8081B
Lab FileID:	6G34637.D	**Analyst approved:**	05/04/16 11:00 Dhara Saparia
Injection Time:	05/03/16 17:38	**Supervisor approved:**	05/04/16 11:18 Gwendolyn Burns

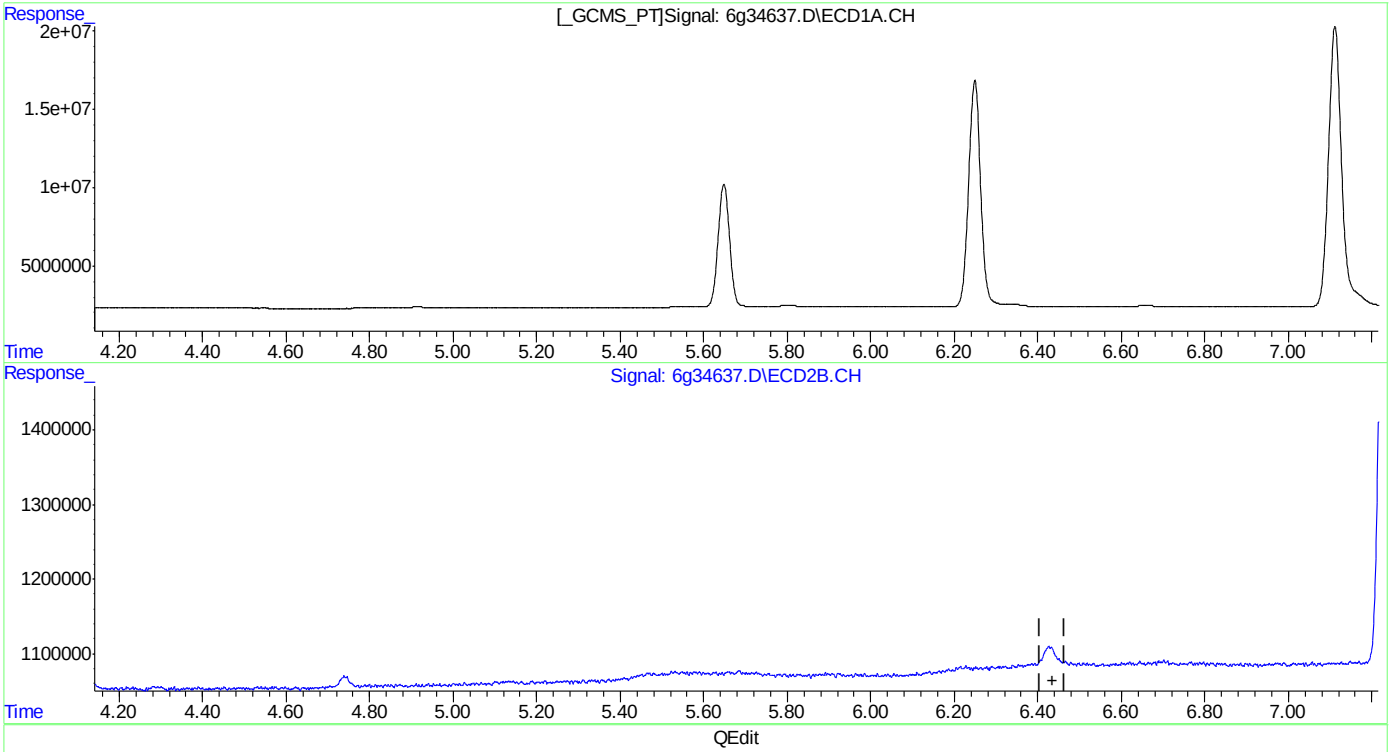
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.92	Poor instrument integration
4,4'-DDD	72-54-8	1	5.80	Poor instrument integration
4,4'-DDE	72-55-9	2	6.43	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.66	Poor instrument integration
4,4'-DDD	72-54-8	2	7.46	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.25	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 5:38 pm
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.9,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 10:24:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(13) 4,4'-DDE (B)
0.000min 0.000PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000PPB
response 0

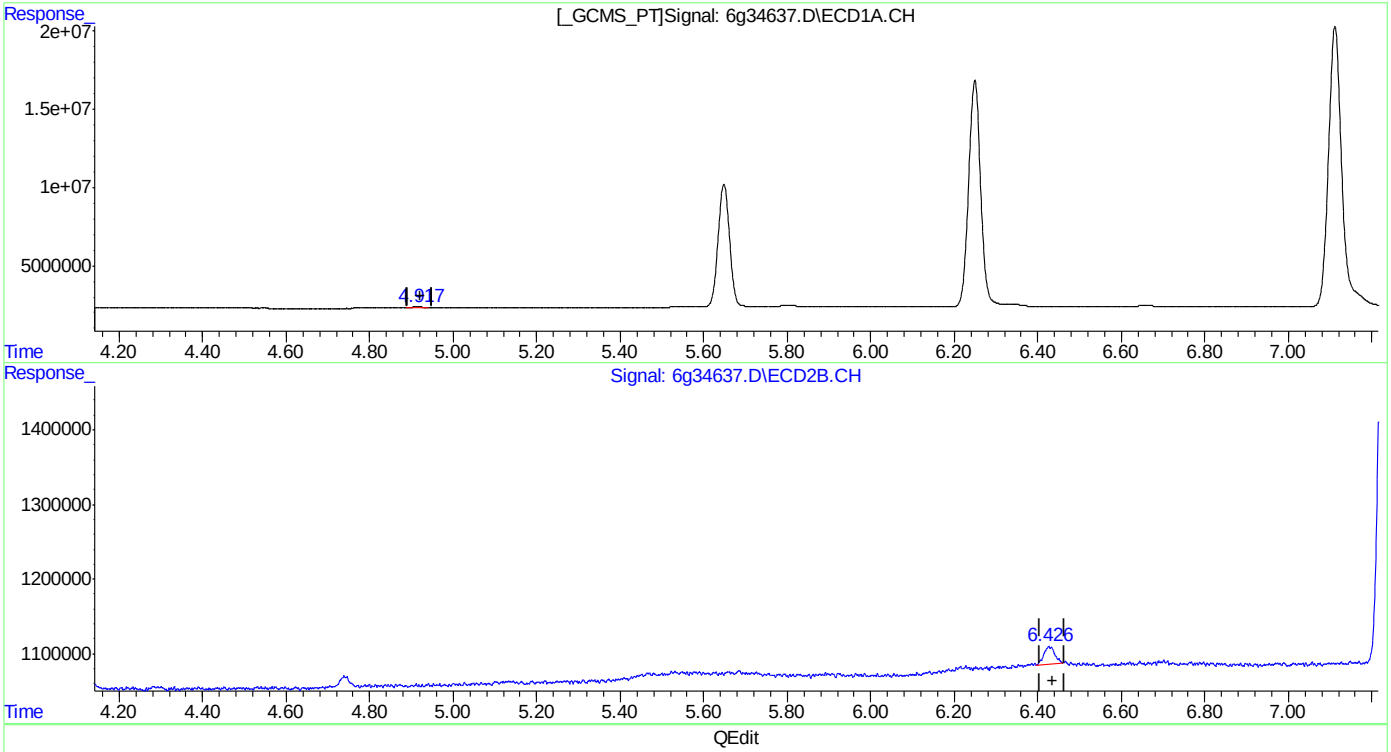
(+) = Expected Retention Time
6PST987.M Wed May 04 10:25:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 5:38 pm
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.9,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 10:24:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(13) 4,4'-DDE (B)
4.917min 0.392PPB m
response 1003561

(13) 4,4'-DDE #2 (B)
6.426min 0.465PPB m
response 439515

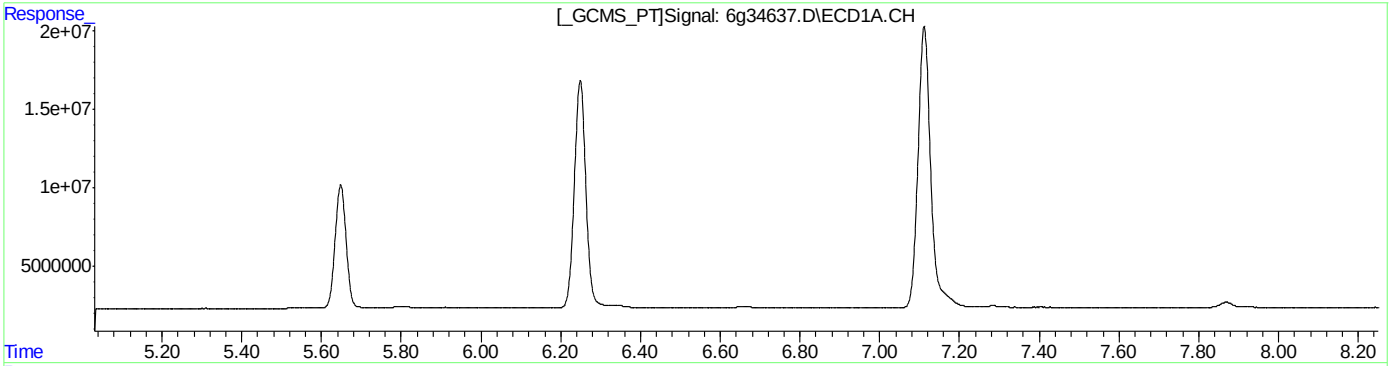
(+) = Expected Retention Time
6PST987.M Wed May 04 10:25:28 2016

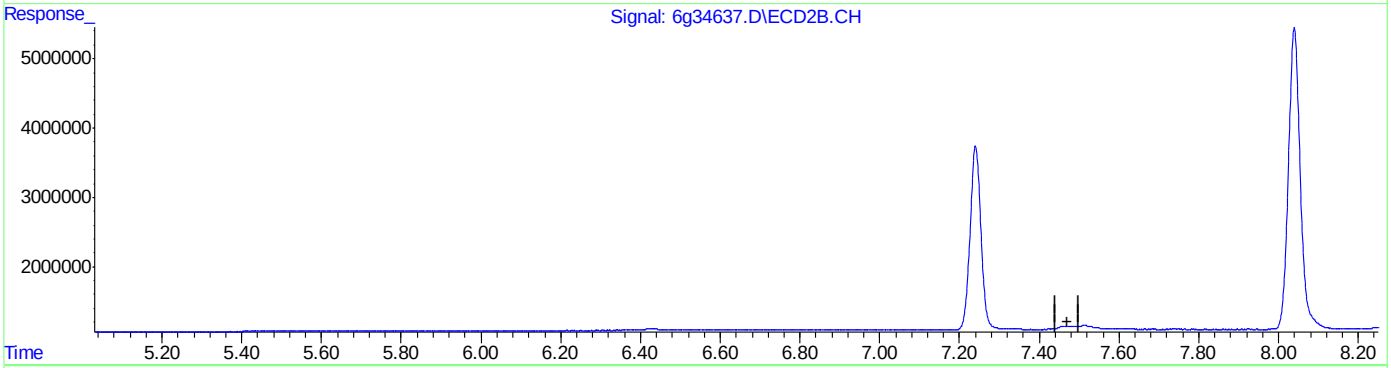
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 5:38 pm
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.9,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 10:24:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(16) 4,4'-DDD (A)
0.000min 0.000PPB
response 0

(16) 4,4'-DDD #2 (A)
0.000min 0.000PPB
response 0

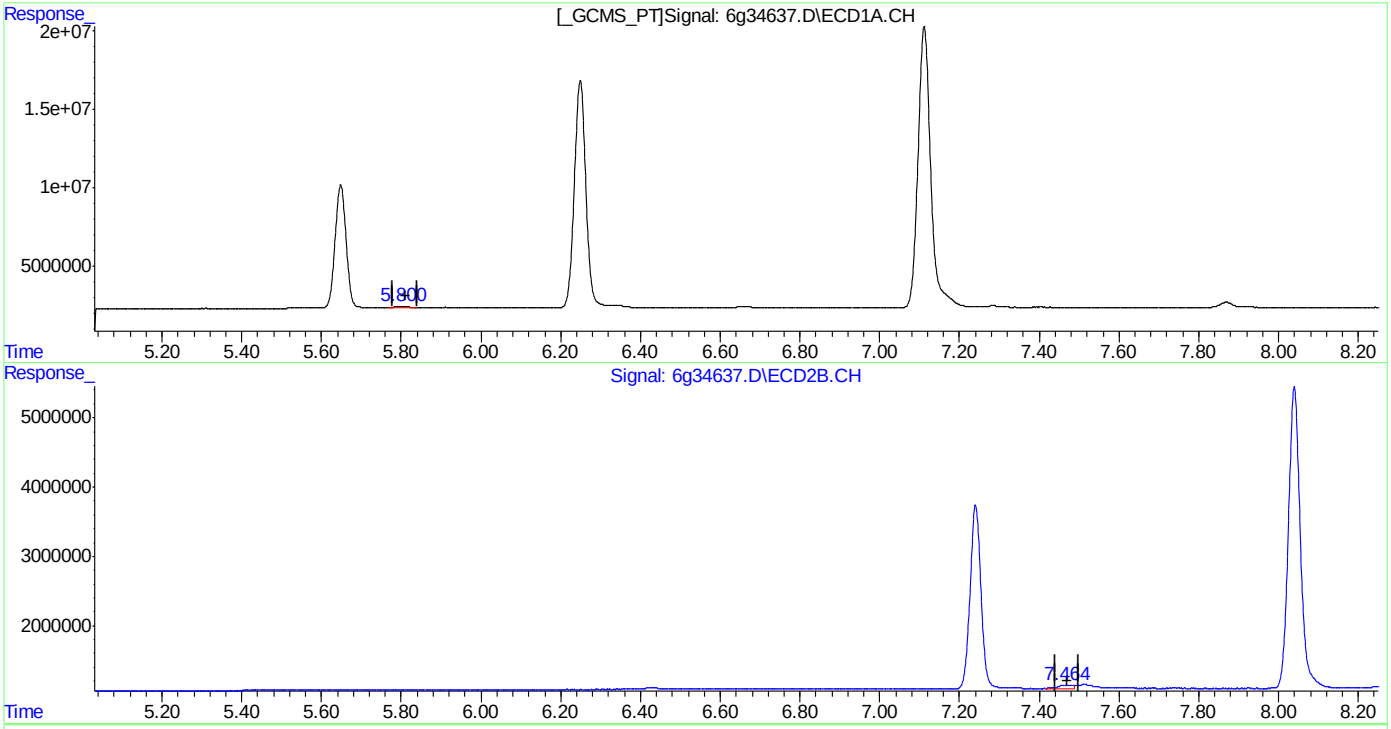
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34637.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 03 May 2016   5:38 pm
Operator  : dharas
Sample    : ddt
Misc      : op93532,g6g1001,15.9,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 10:24:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title  : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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
```



QEdit

(16) 4,4'-DDD (A)
5.800min 0.824PPB m
response 1783683

(16) 4,4'-DDD #2 (A)
7.464min 1.489PPB m
response 1213330

(+) = Expected Retention Time

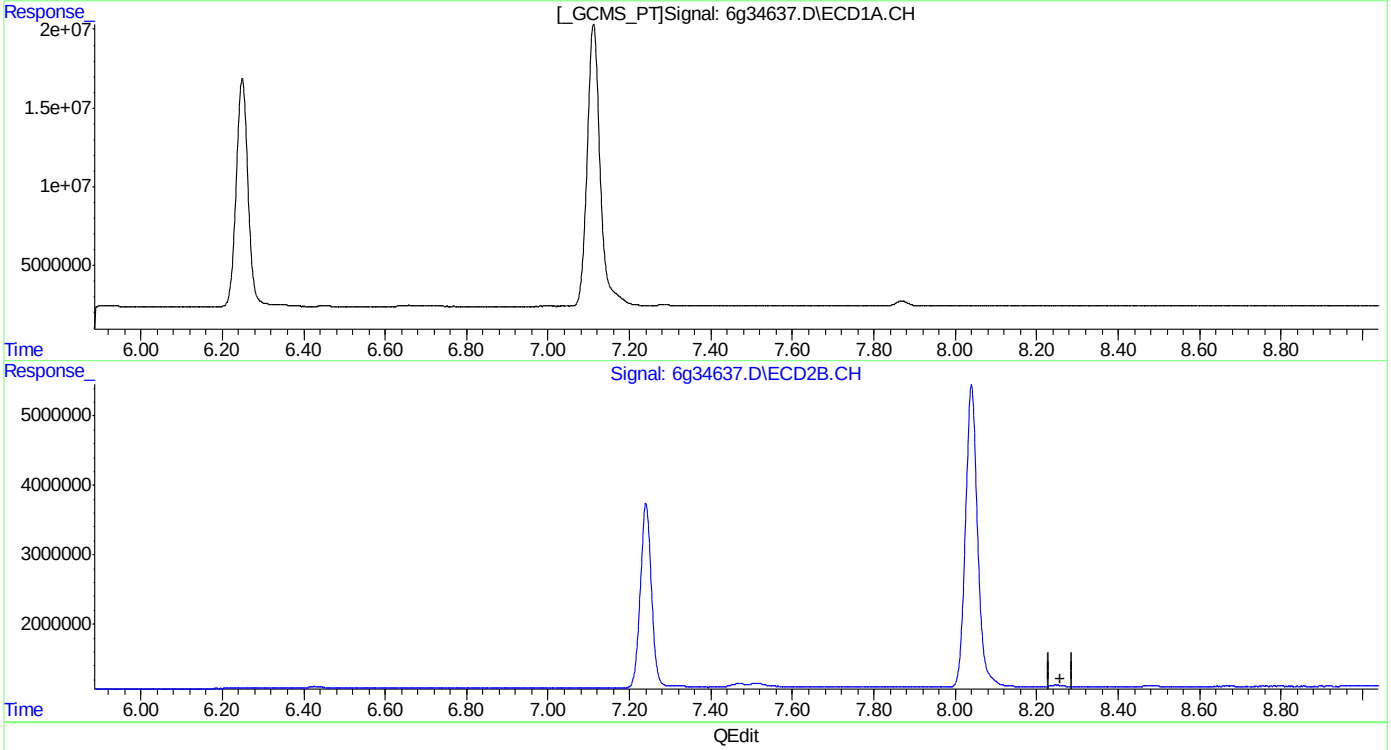
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 5:38 pm
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.9,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 10:24:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(19) Endrin Aldehyde (B)
0.000min 0.000PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000PPB
response 0

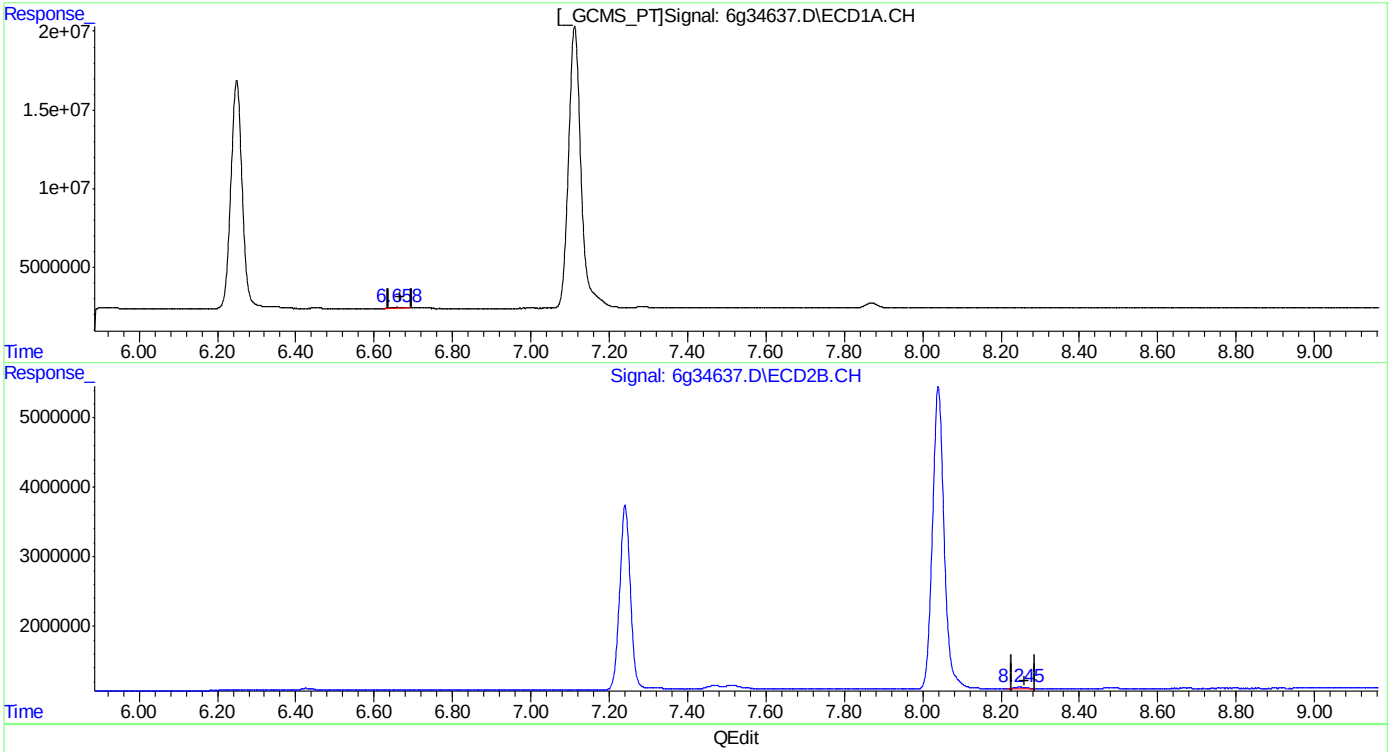
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 5:38 pm
Operator : dharas
Sample : ddt
Misc : op93532,g6g1001,15.9,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 10:24:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) Endrin Aldehyde (B)
6.658min 0.585PPB m
response 1287183

(19) Endrin Aldehyde #2 (B)
8.245min 0.668PPB m
response 523158

(+) = Expected Retention Time
6PST987.M Wed May 04 10:26:59 2016

SGS ACCUTEST JC19473

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

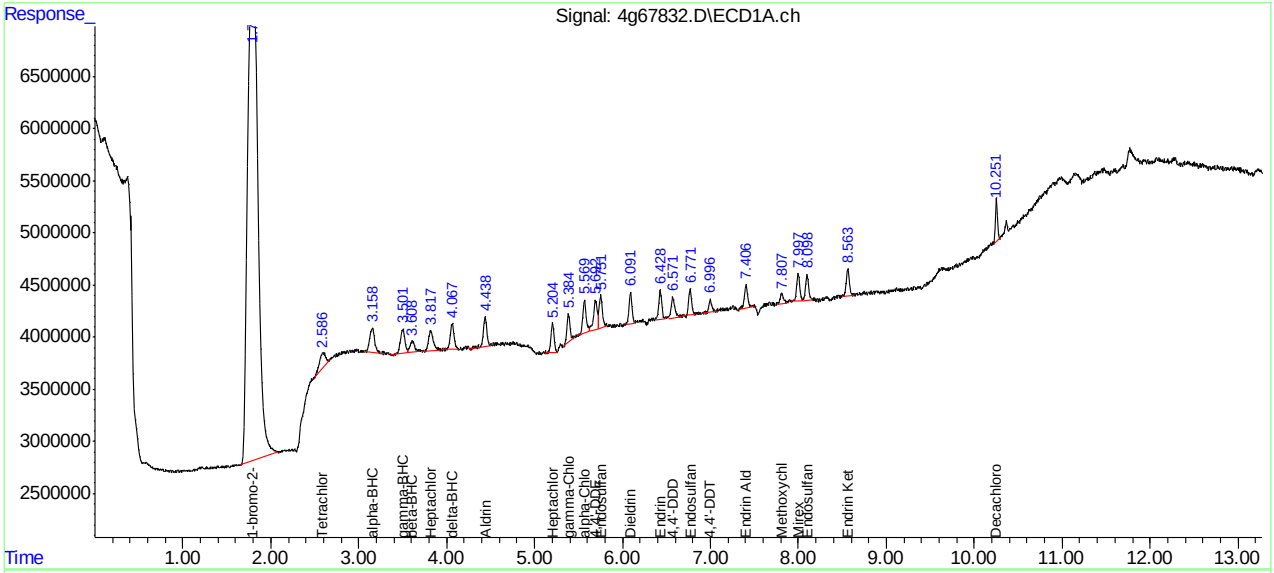
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

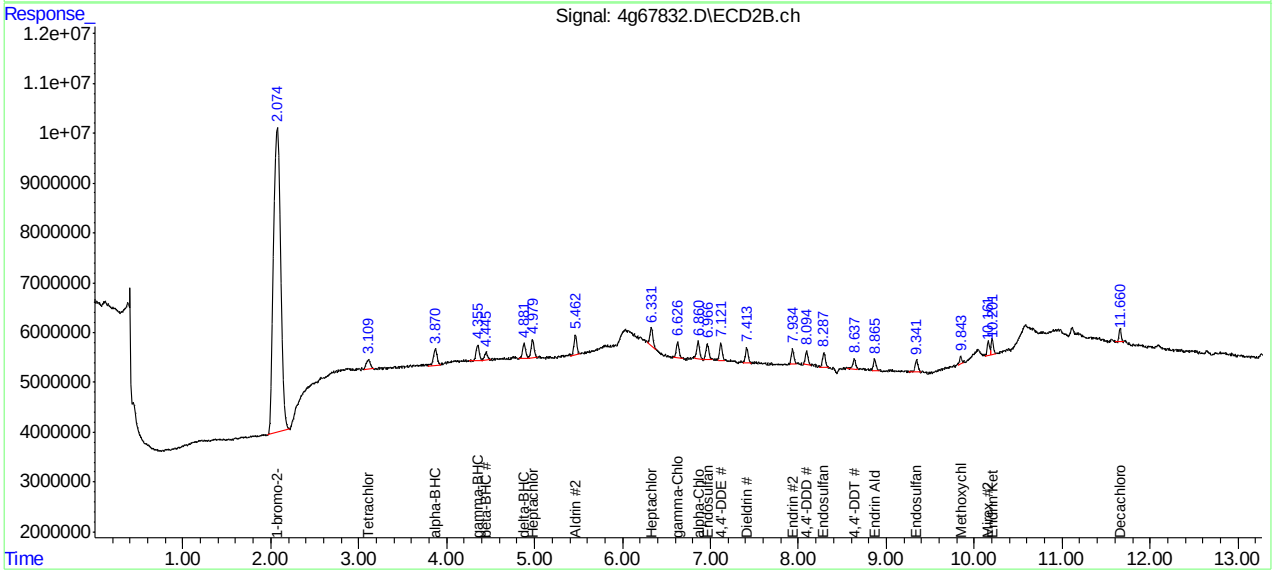
Quantitation Report (QT Reviewed)

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

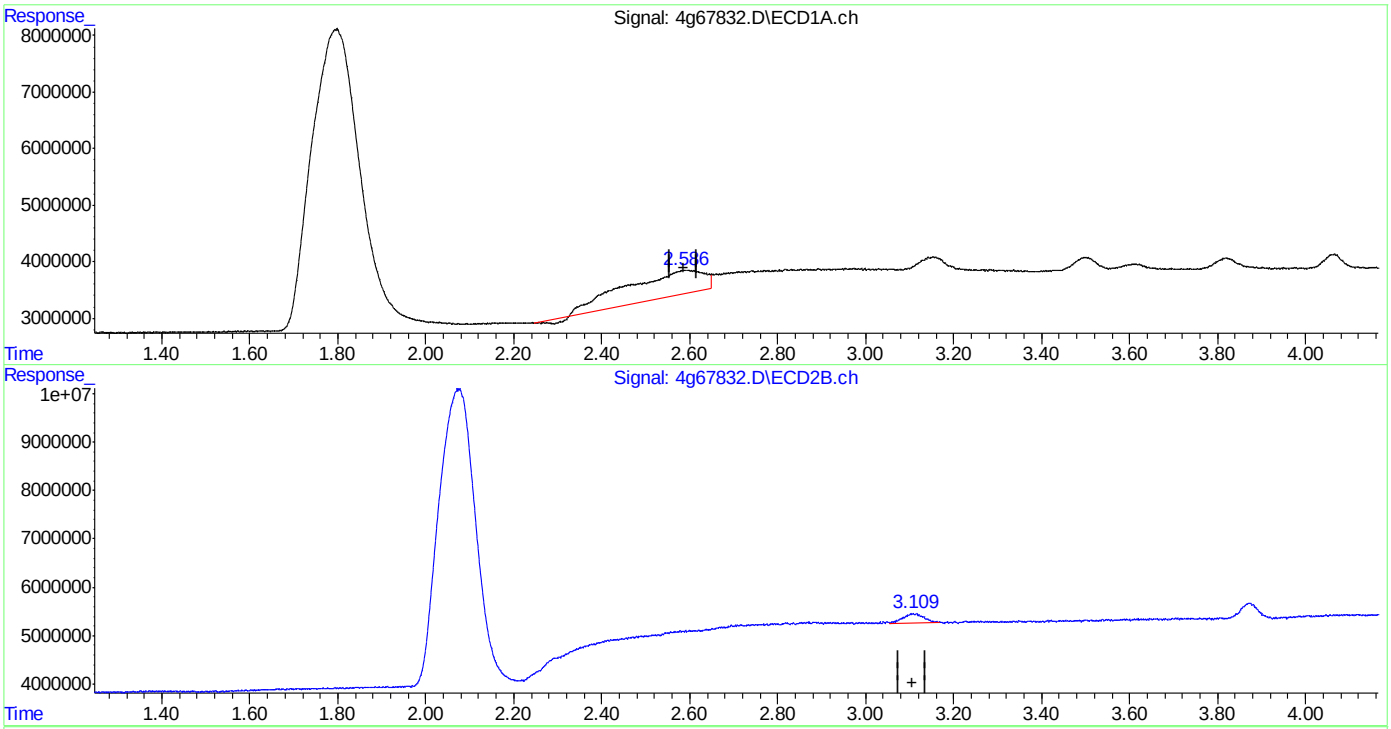
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
gamma-Chlordane	5103-74-2	1	5.38	Poorly defined baseline
Dieldrin	60-57-1	1	6.09	Poorly defined baseline
Endrin	72-20-8	1	6.43	Poorly defined baseline
Methoxychlor	72-43-5	1	7.81	Poorly defined baseline
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

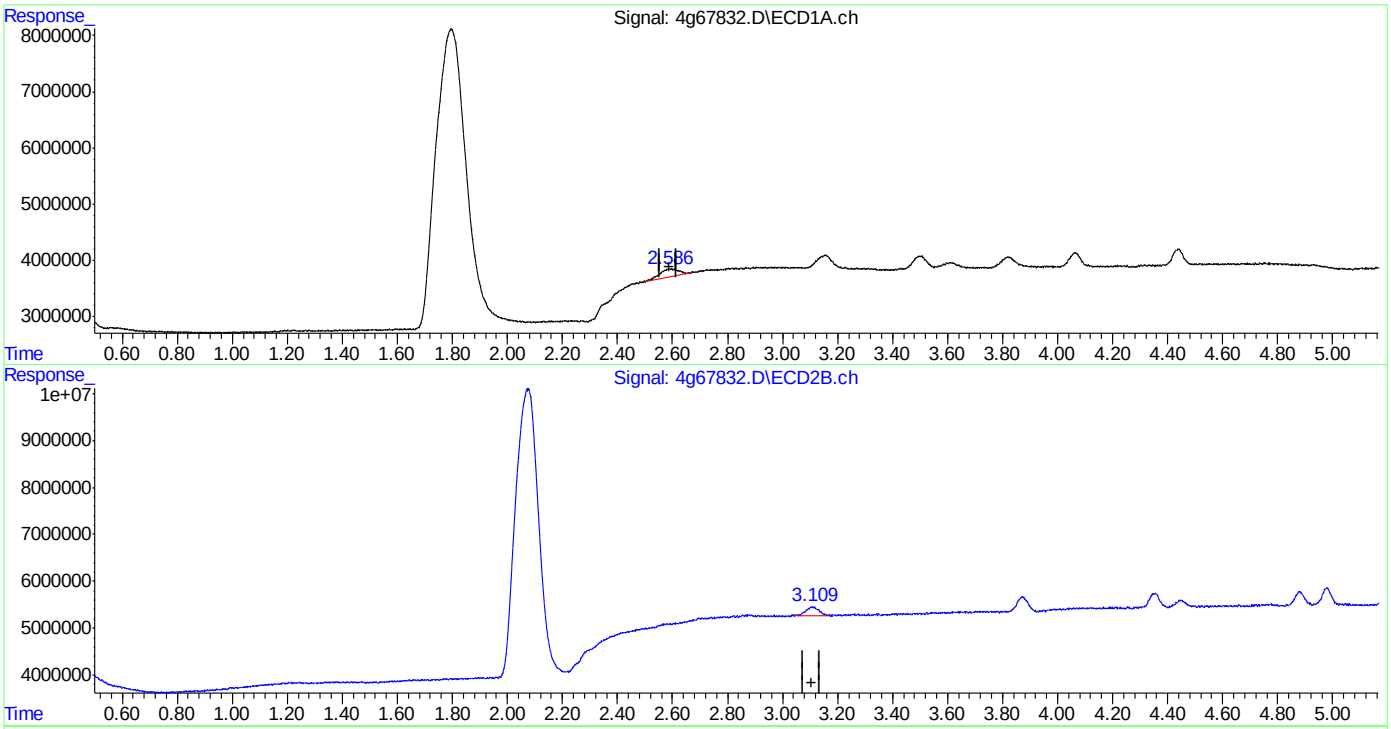
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:00:24 2016 RPT1

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
```



(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

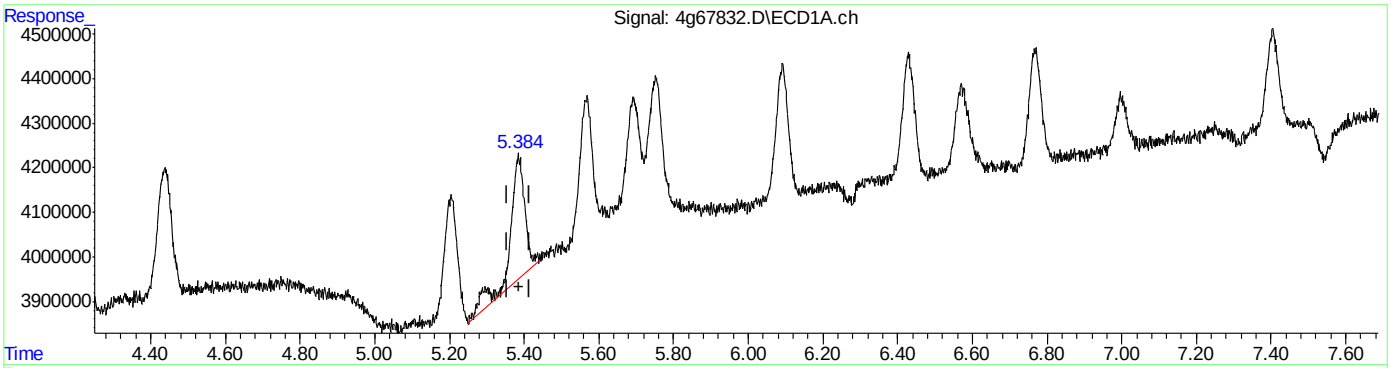
SGS ACCUTEST JC19473

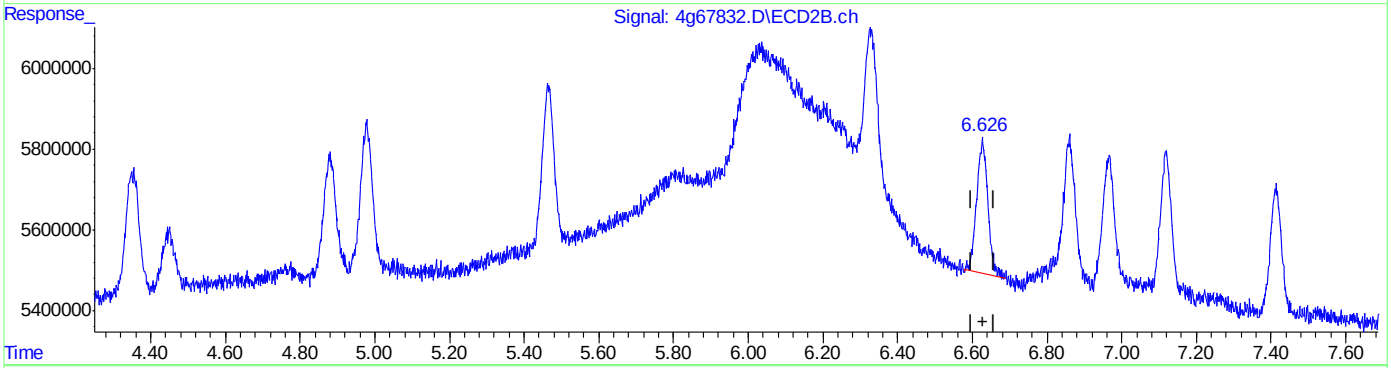
Quantitation Report (Qedit)

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

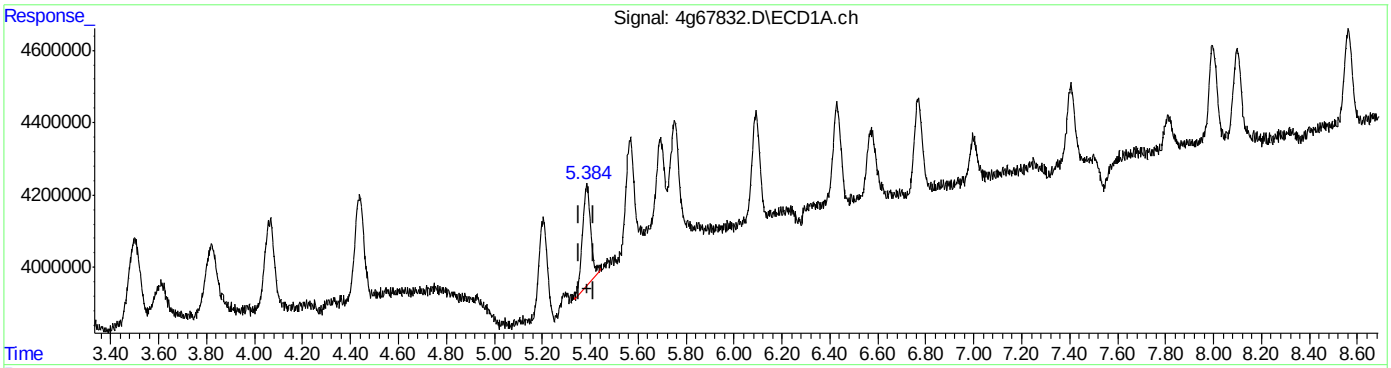
(+) = Expected Retention Time

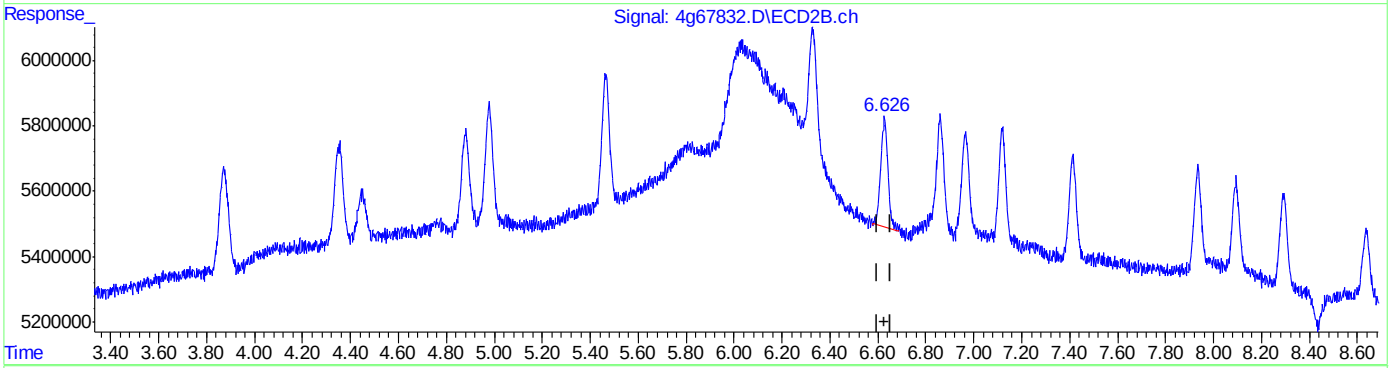
Quantitation Report (Qedit)

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





QEdit

(10) gamma-Chlordane (B)
5.384min 0.935 PPB m
response 6671076

(10) gamma-Chlordane #2 (B)
6.627min 0.997 PPB
response 6909544

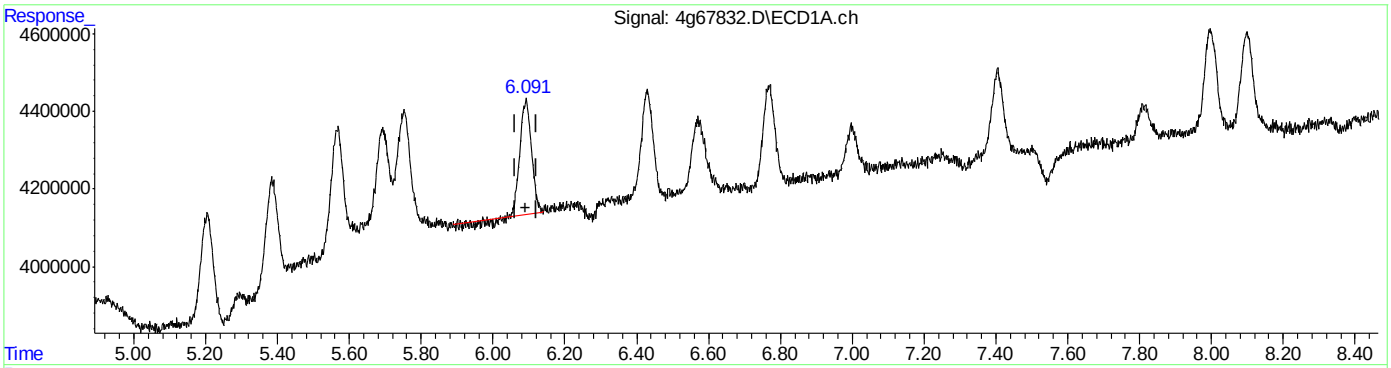
(+) = Expected Retention Time

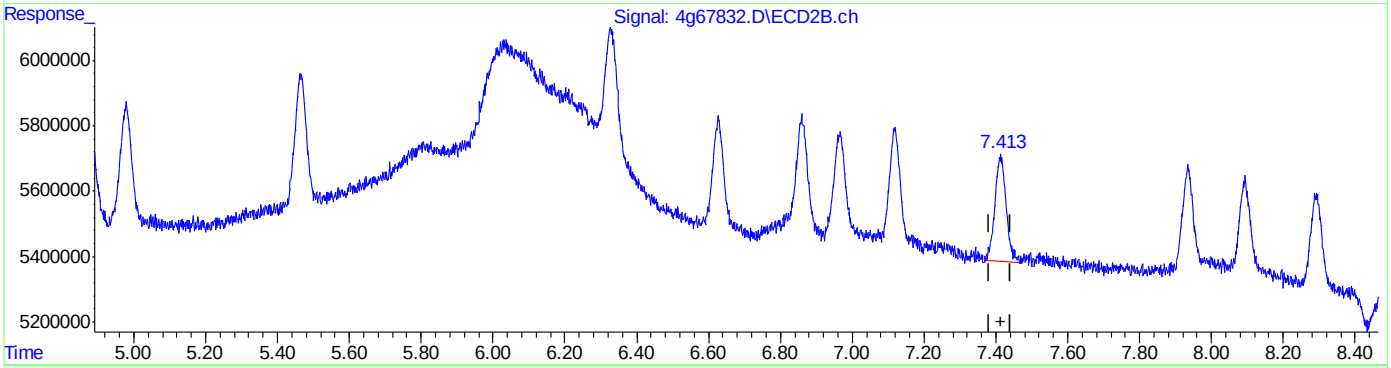
Quantitation Report (Qedit)

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

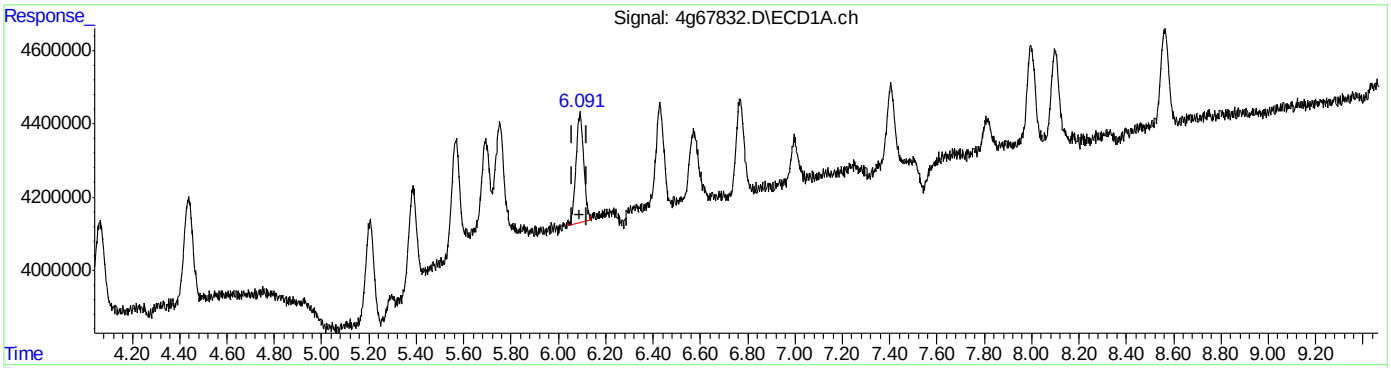
(+) = Expected Retention Time

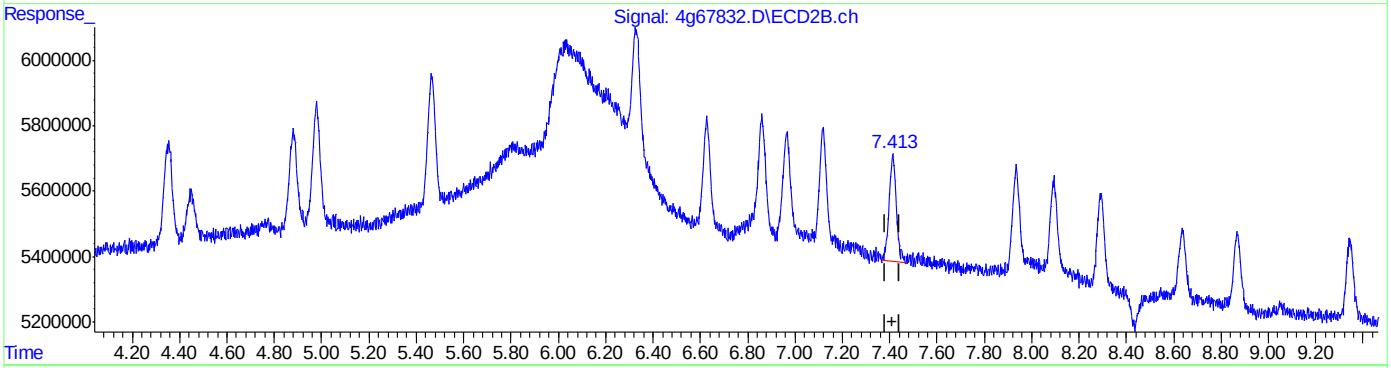
Quantitation Report (Qedit)

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

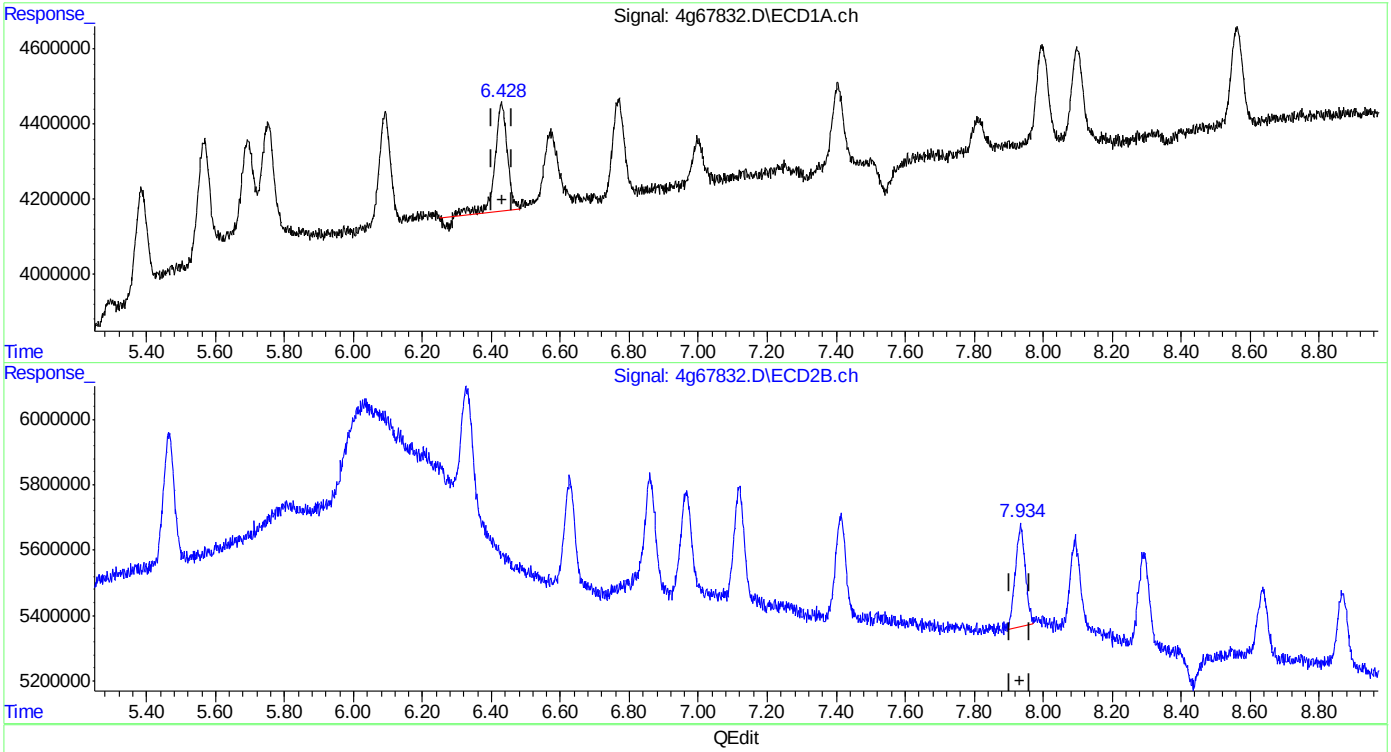
(+) = Expected Retention Time

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

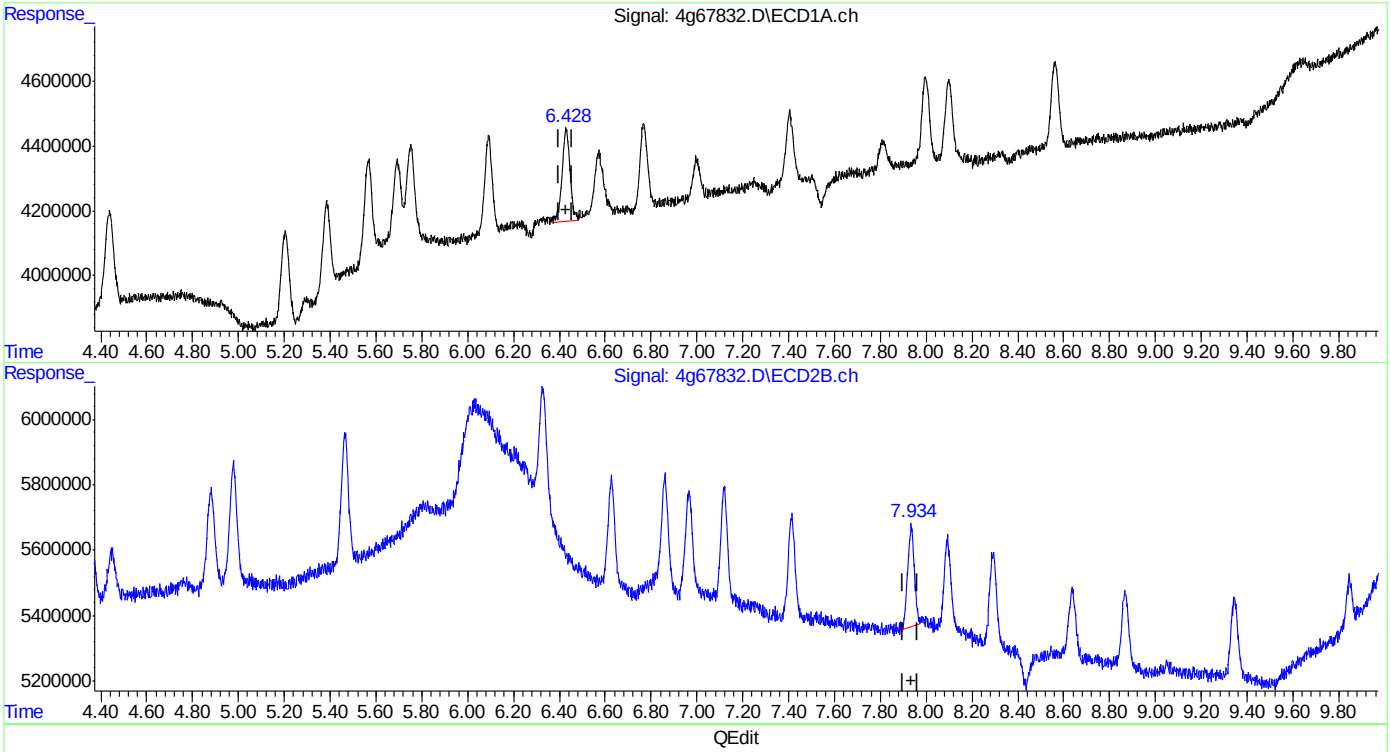
(+) = Expected Retention Time

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)
6.428min 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

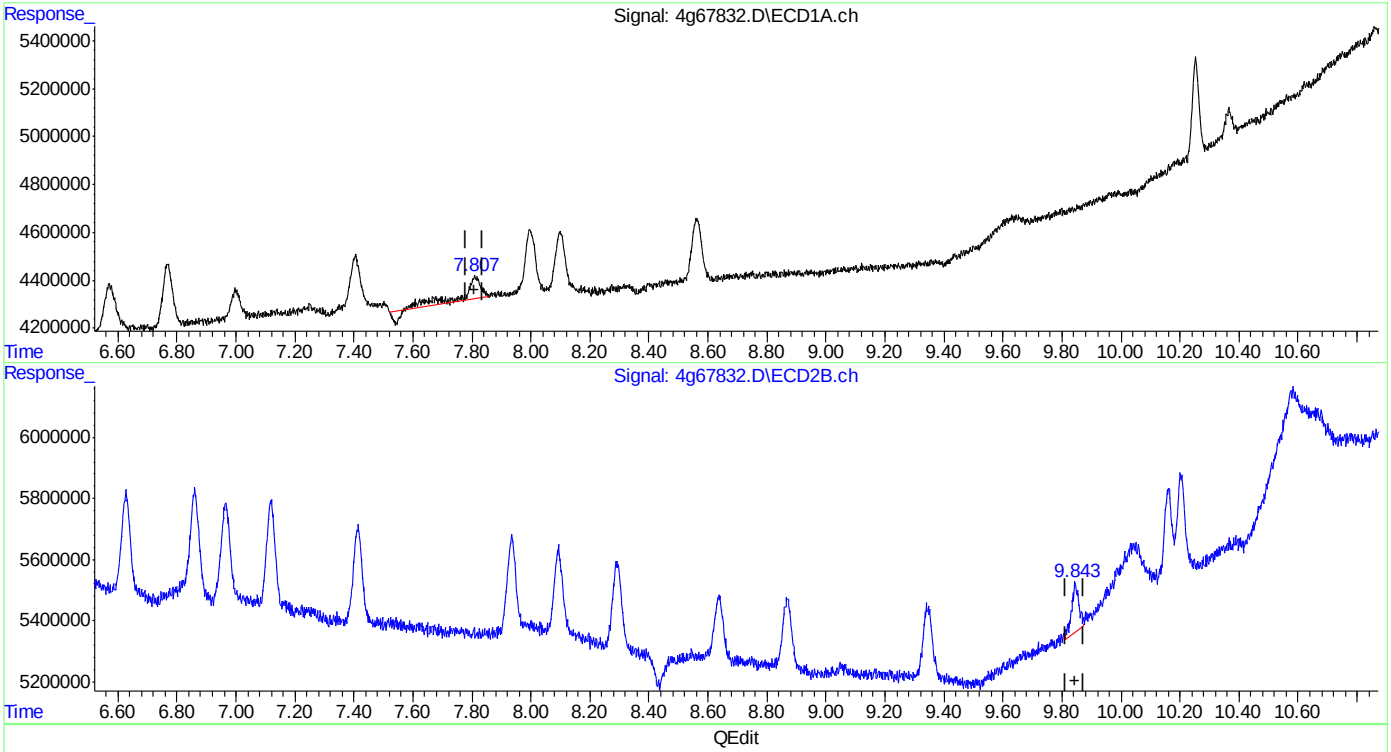
SGS ACCUTEST JC19473

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



(21) Methoxychlor (A)
7.811min 1.186 PPB
response 3539759

(21) Methoxychlor #2 (A)
9.844min 1.017 PPB
response 2727859

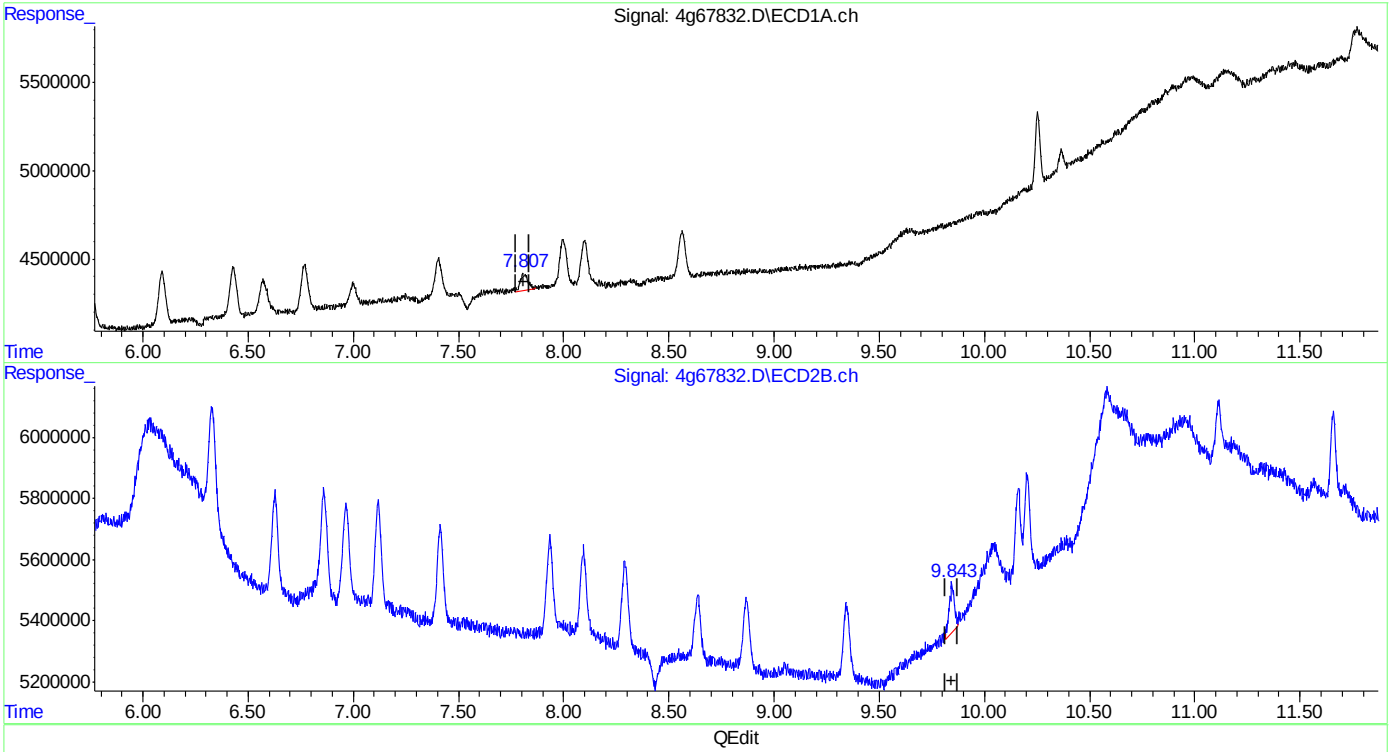
(+) = Expected Retention Time

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

(21) Methoxychlor (A)
7.807min 0.820 PPB m
response 2446157

(21) Methoxychlor #2 (A)
9.844min 1.017 PPB
response 2727859

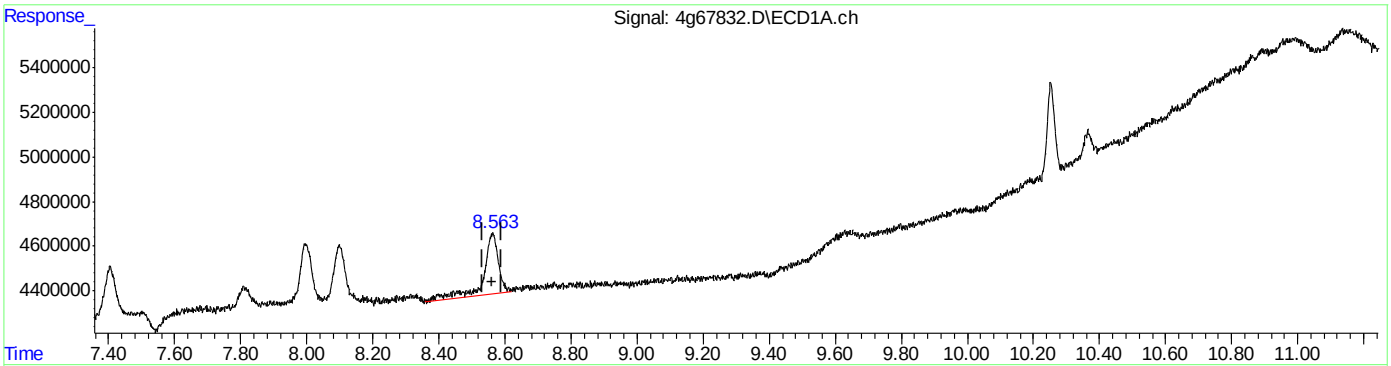
(+) = Expected Retention Time

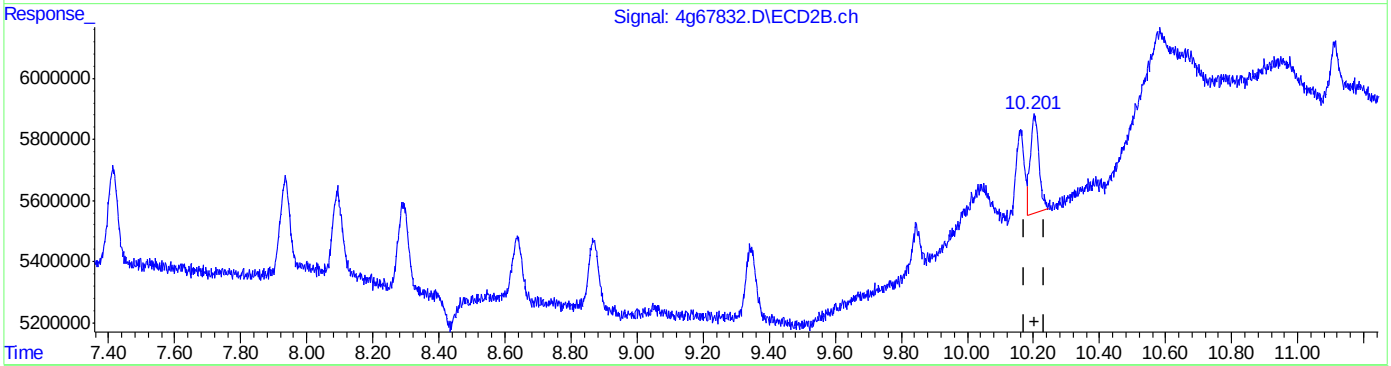
Quantitation Report (Qedit)

```
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

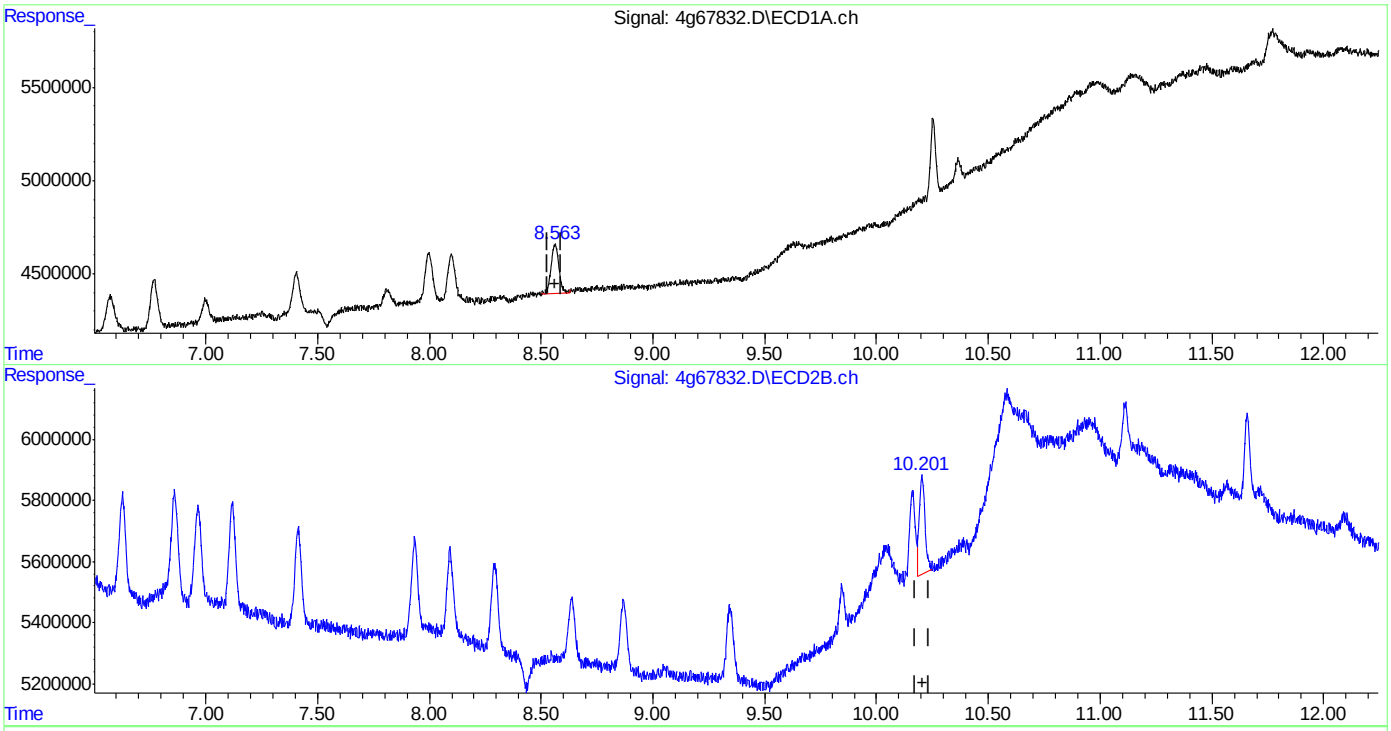
SGS ACCUTEST JC19473

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

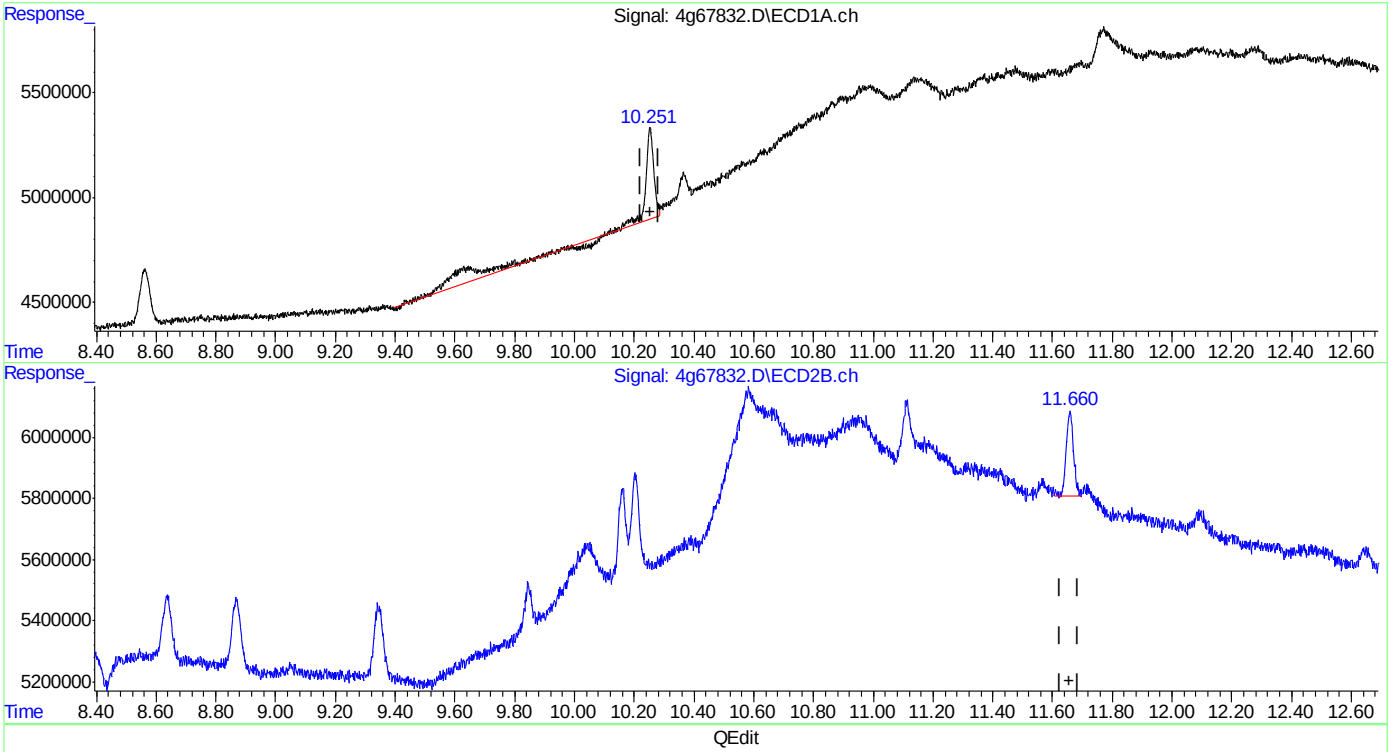
(+) = Expected Retention Time

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

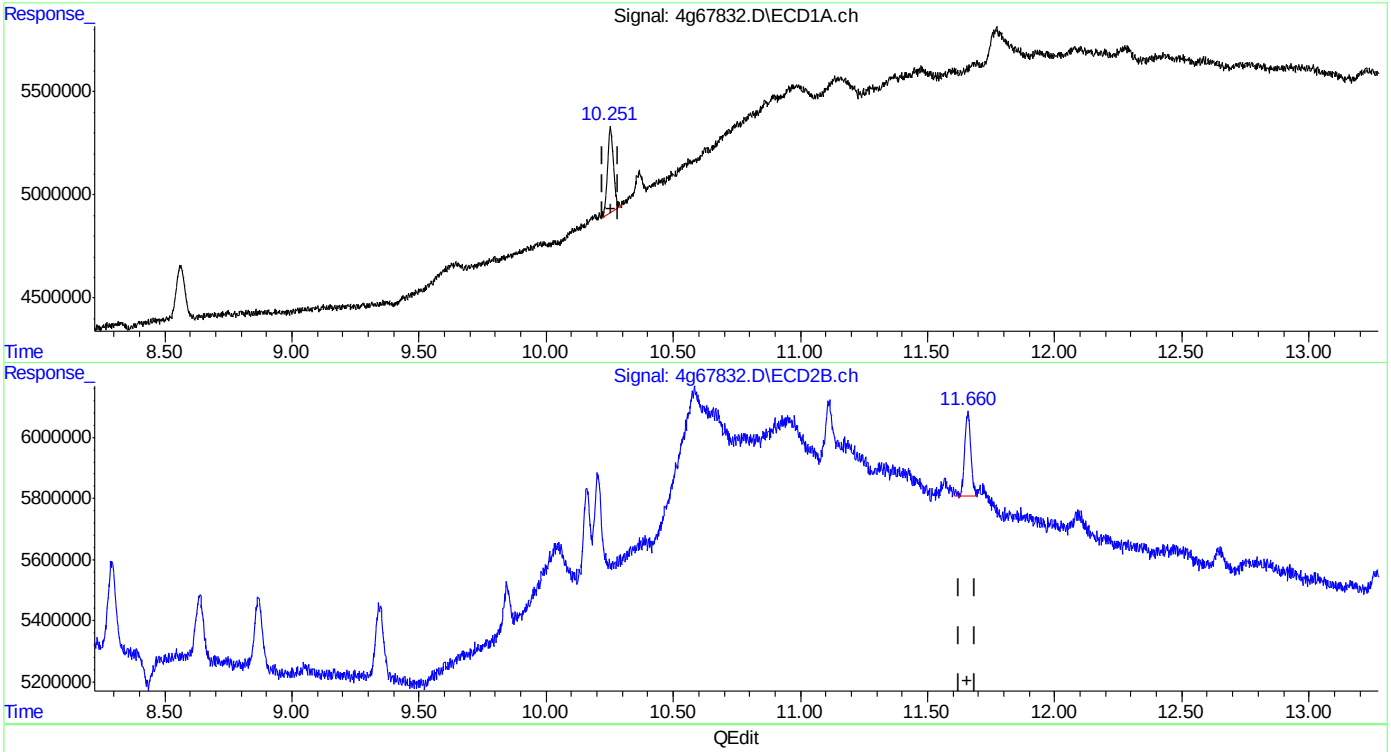
(+) = Expected Retention Time

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

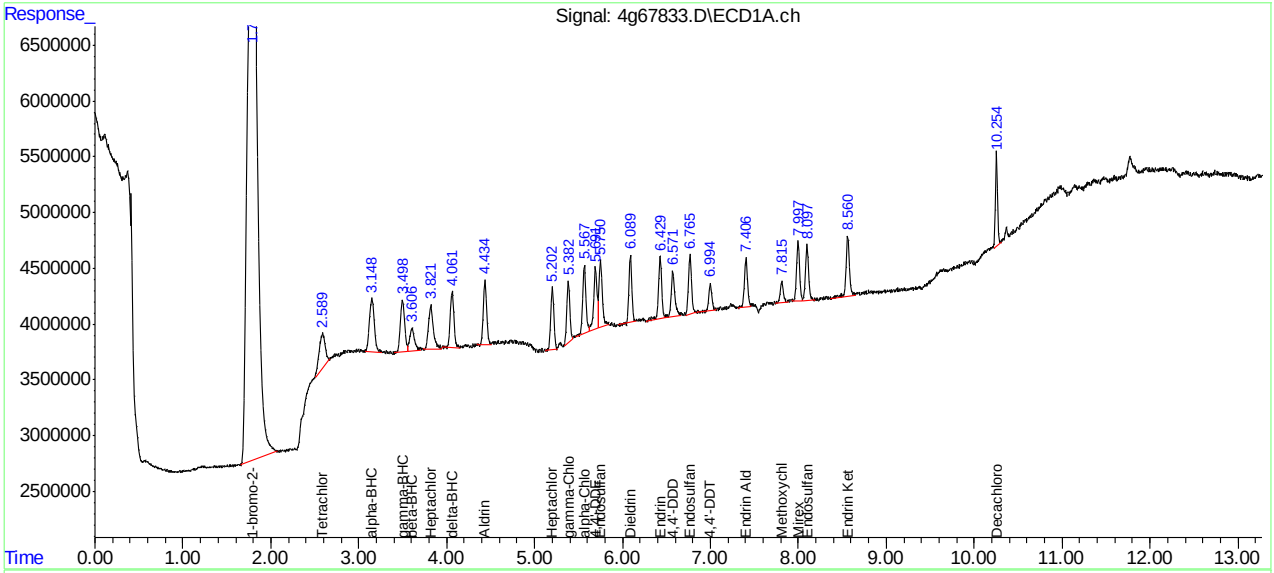
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

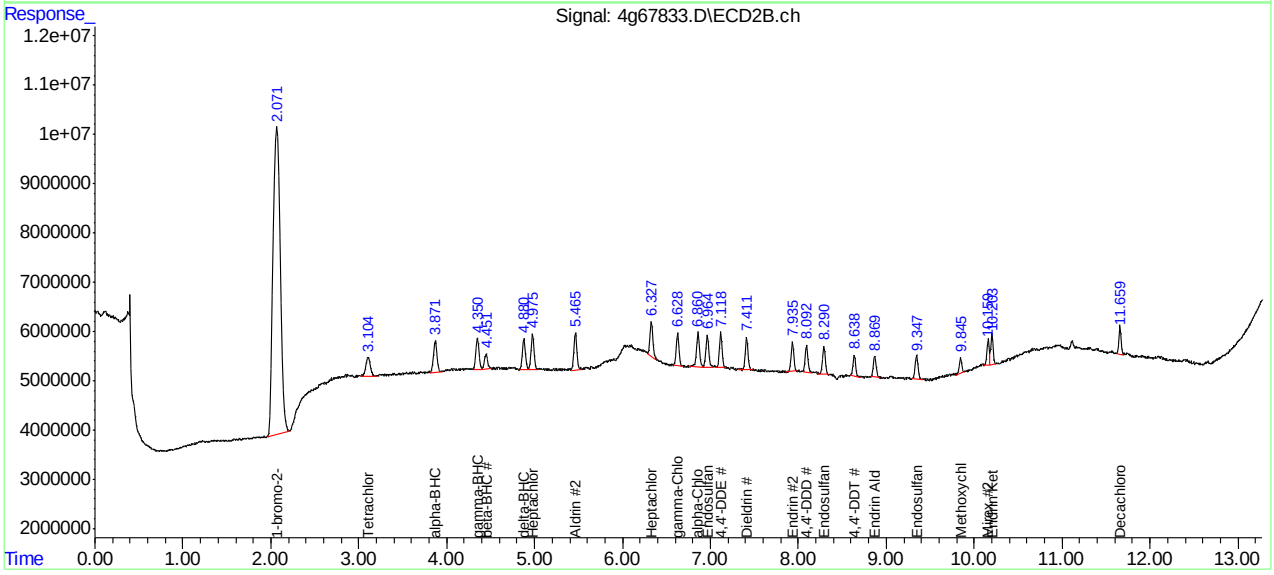
Quantitation Report (QT Reviewed)

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

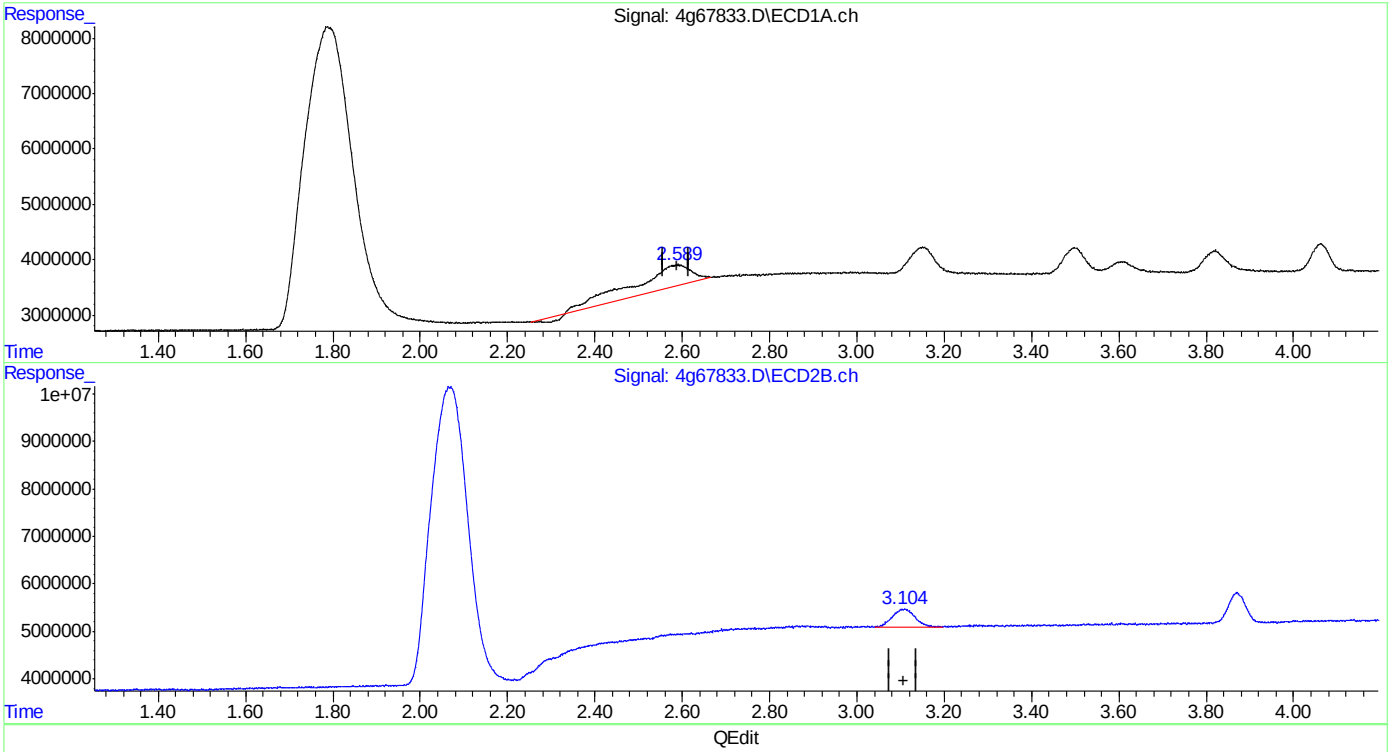
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Heptachlor	76-44-8	2	4.98	Poorly defined baseline
gamma-Chlordane	5103-74-2	1	5.38	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

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
```



QEdit

(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

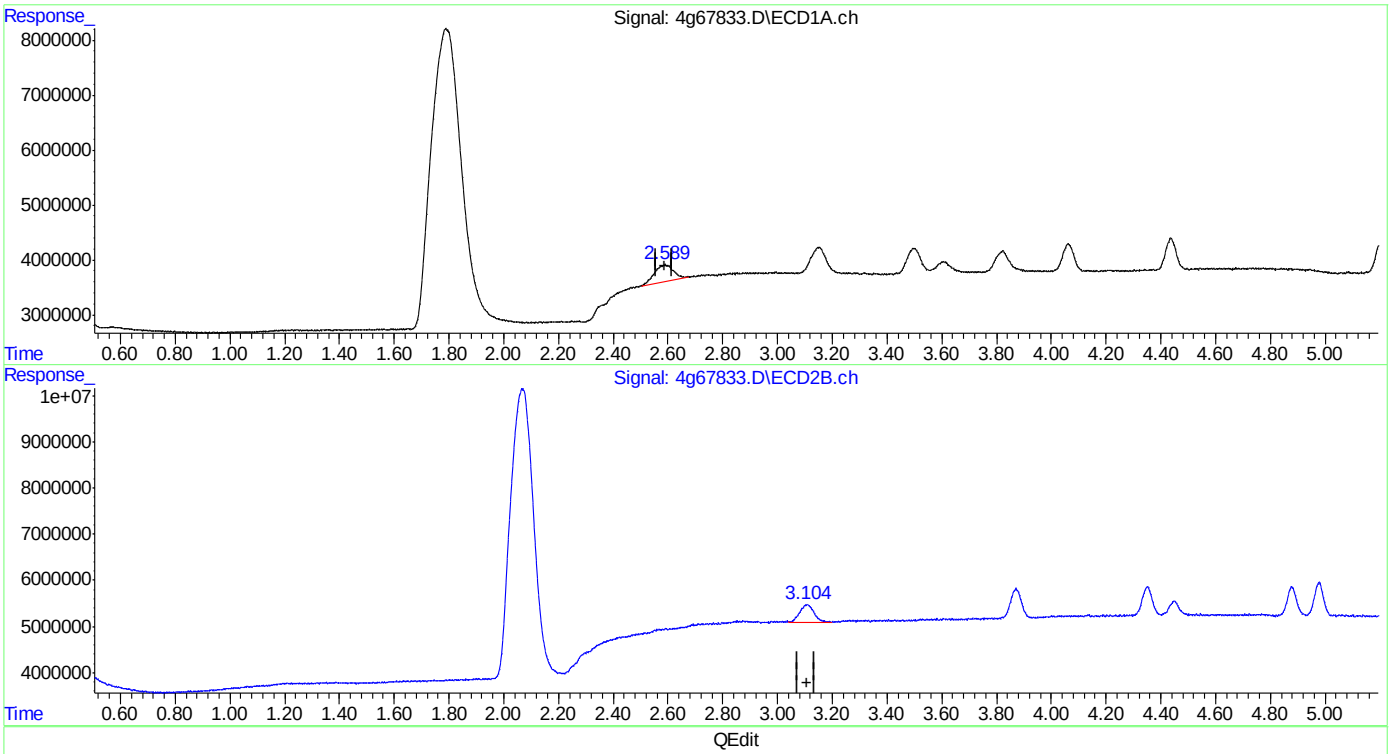
SGS ACCUTEST JC19473

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 1.873 PPB m

response 14628969

(2) Tetrachloro-m-xylene #2 (SAB)

3.104min 2.076 PPB

response 13534834

(+) = Expected Retention Time

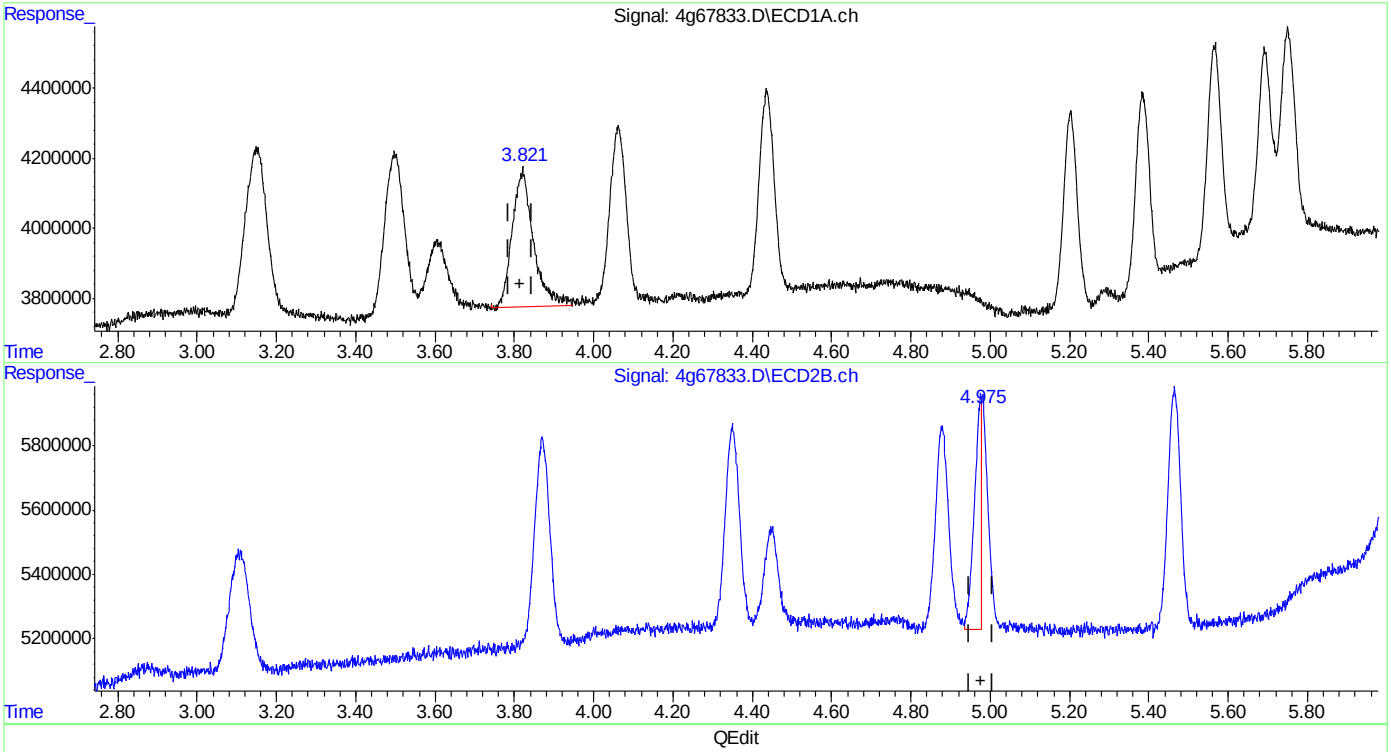
SGS ACCUTEST JC19473

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

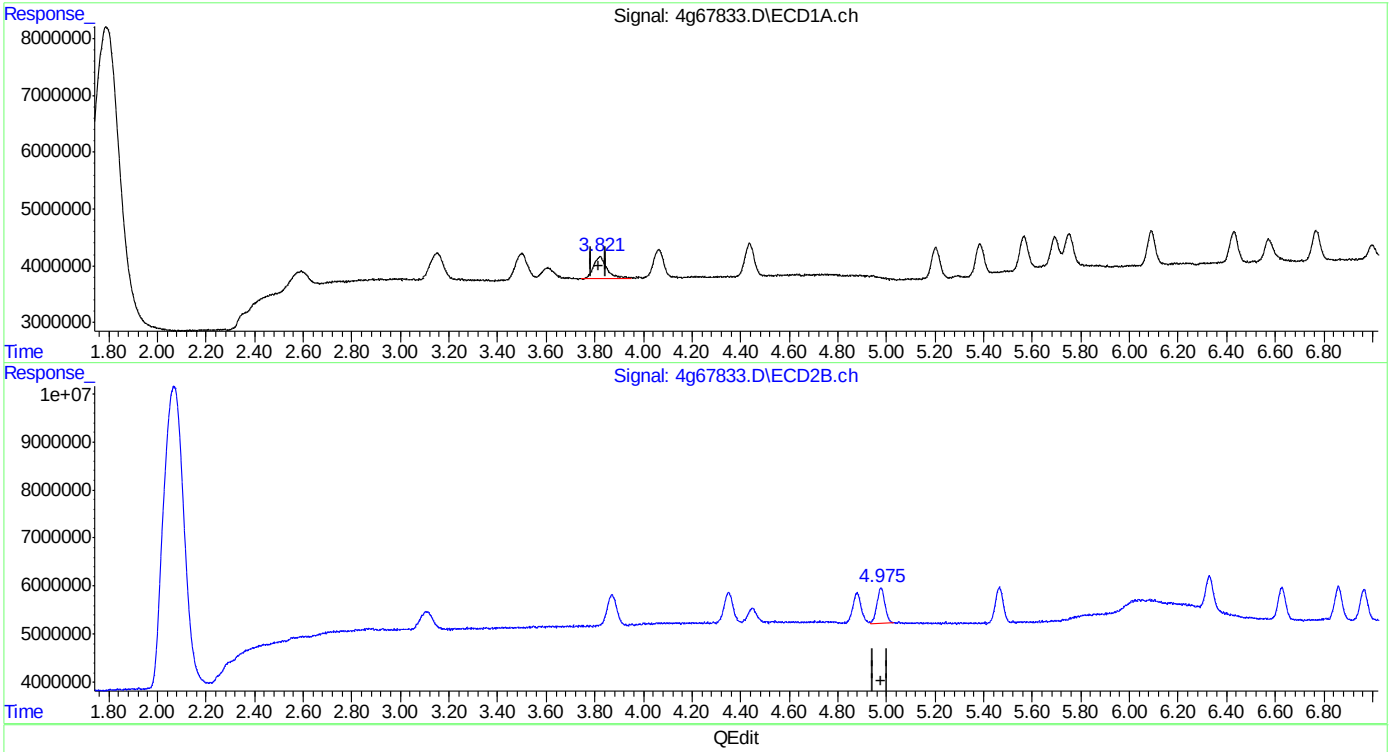
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:58:10 2016 RPT1

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
```



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

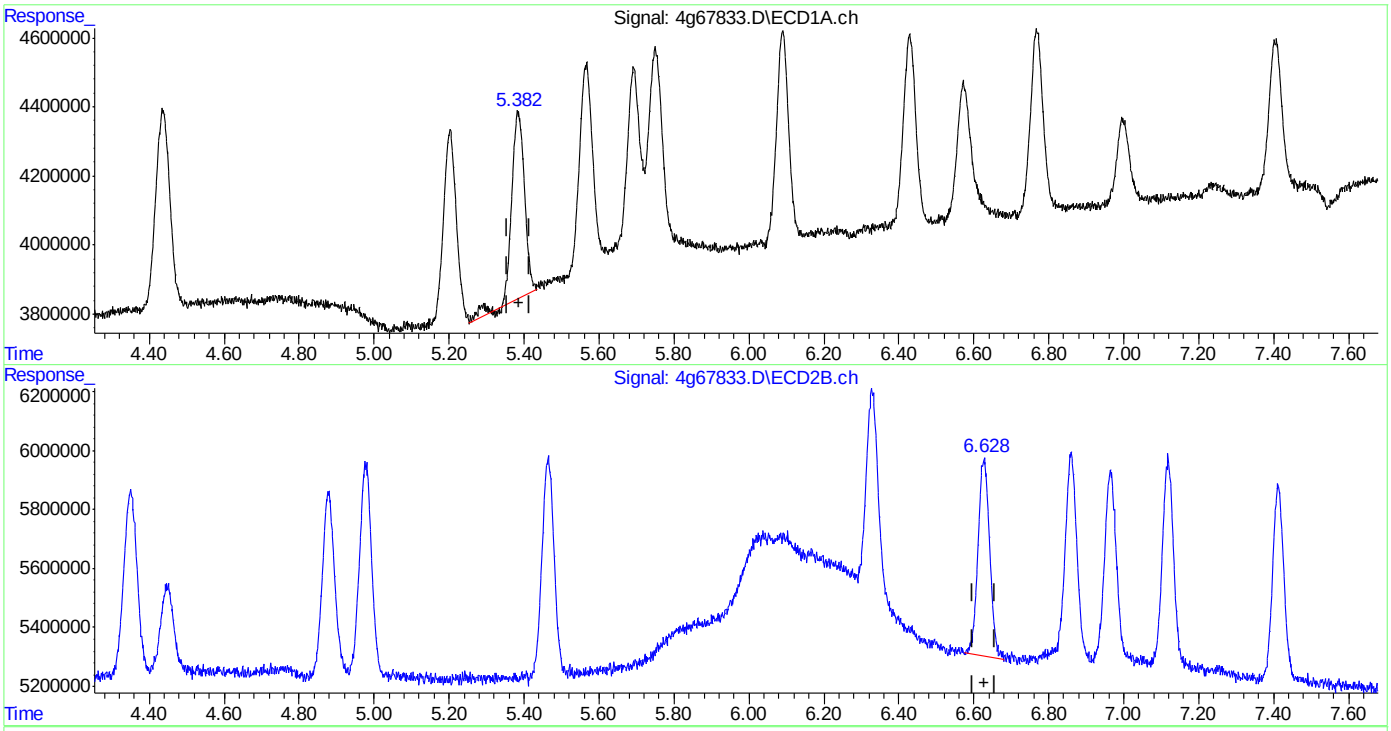
SGS ACCUTEST JC19473

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

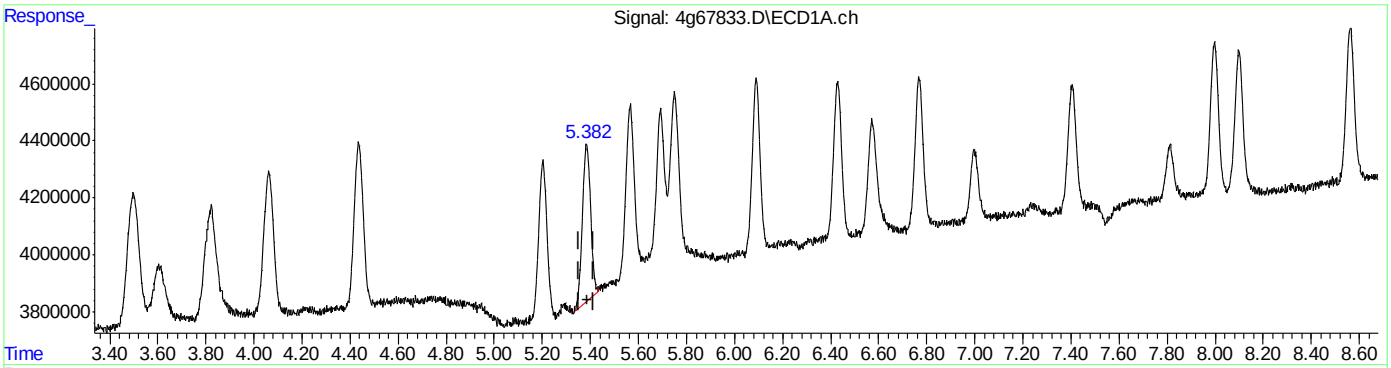
SGS ACCUTEST JC19473

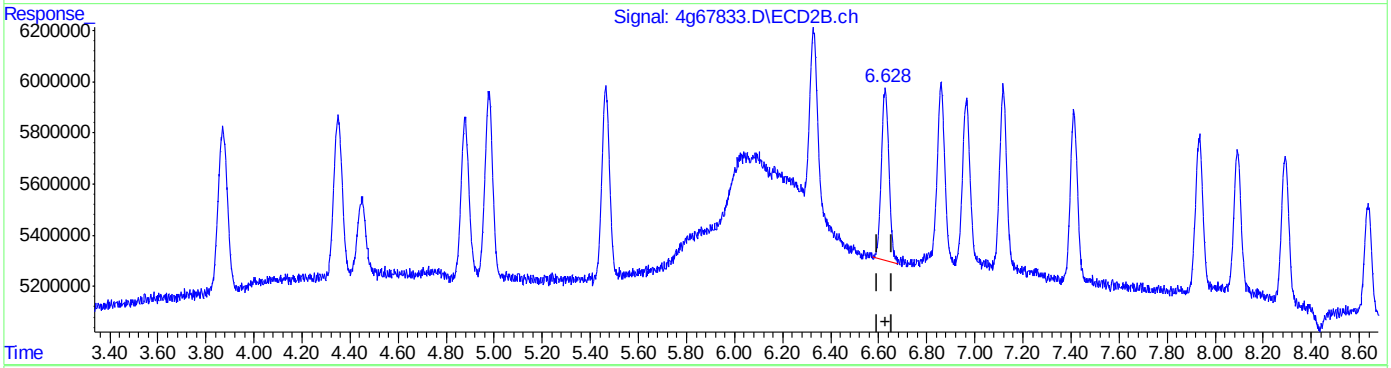
Quantitation Report (Qedit)

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

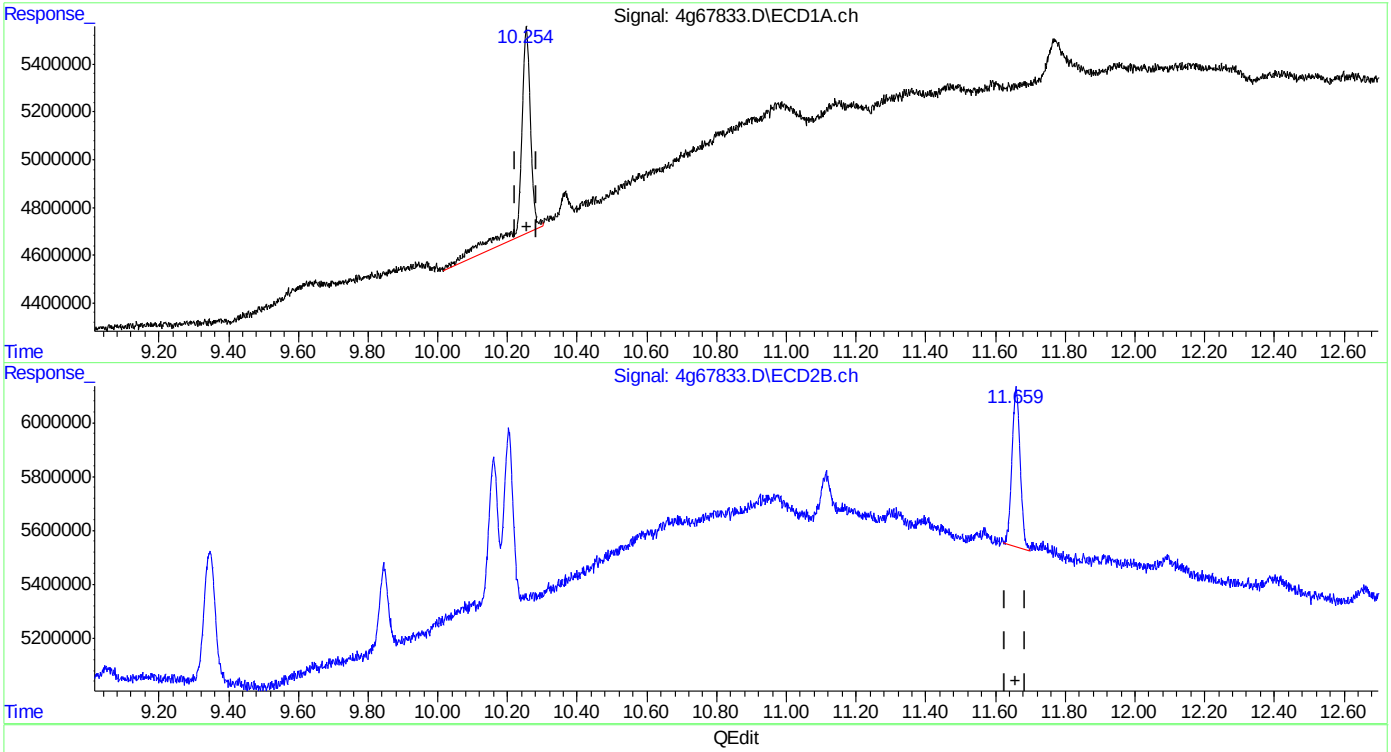
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:58:30 2016 RPT1

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

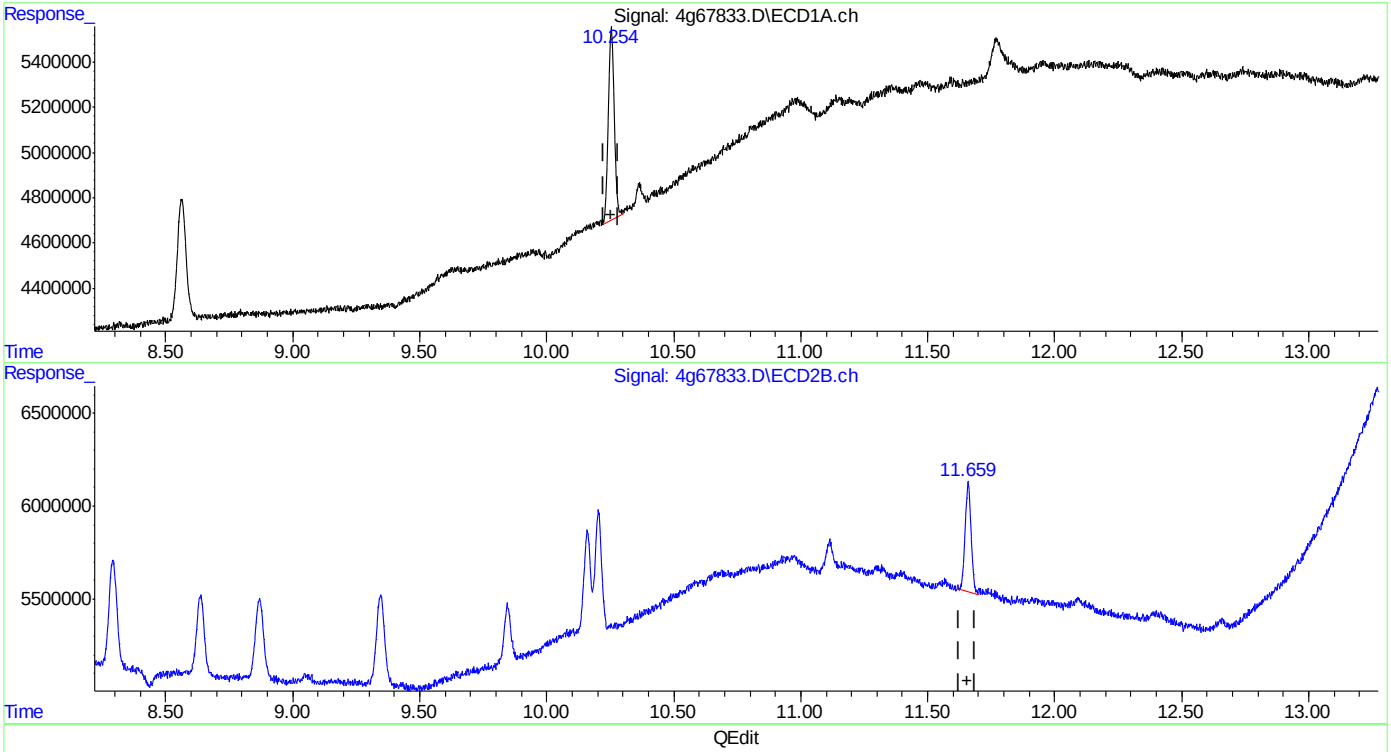
(+) = Expected Retention Time

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
```



(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

4PST1778.M Tue May 03 14:58:58 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 : 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

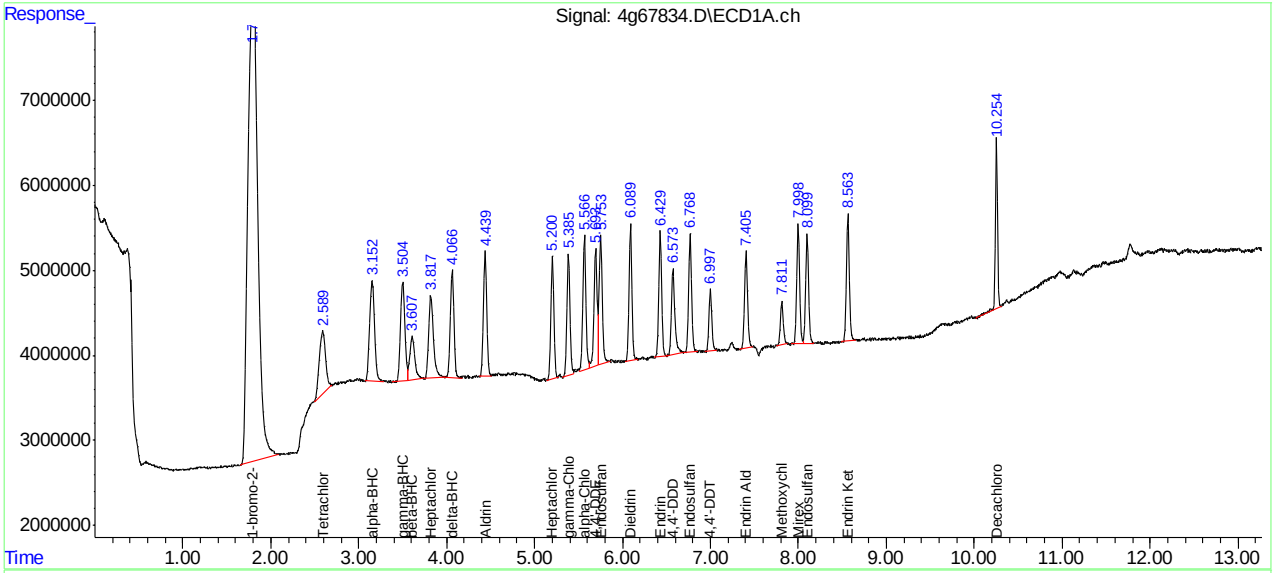
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

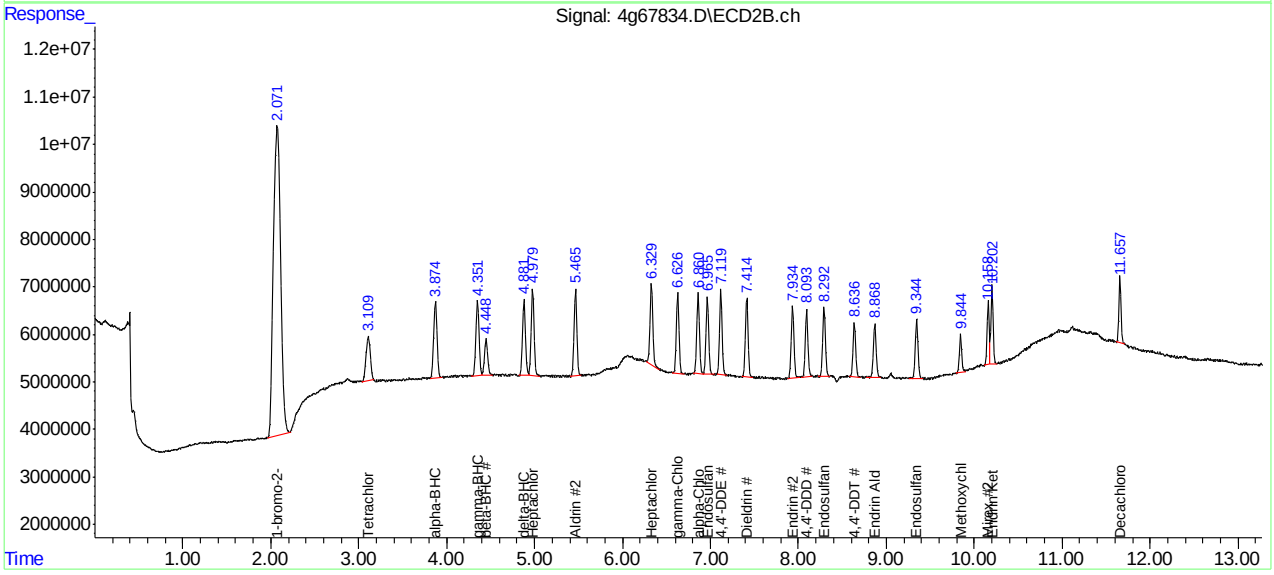
Quantitation Report (QT Reviewed)

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 JC19473

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

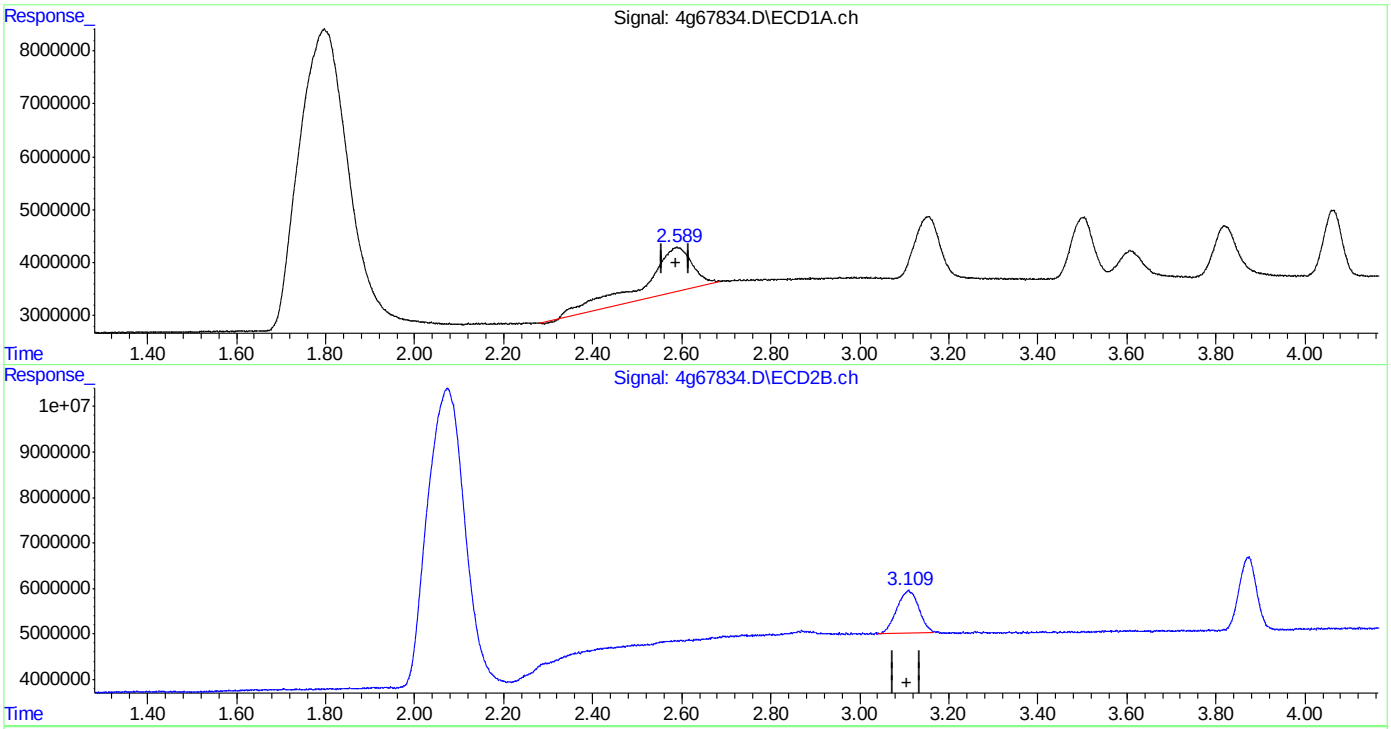
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
alpha-Chlordane	5103-71-9	1	5.57	Poorly defined baseline

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

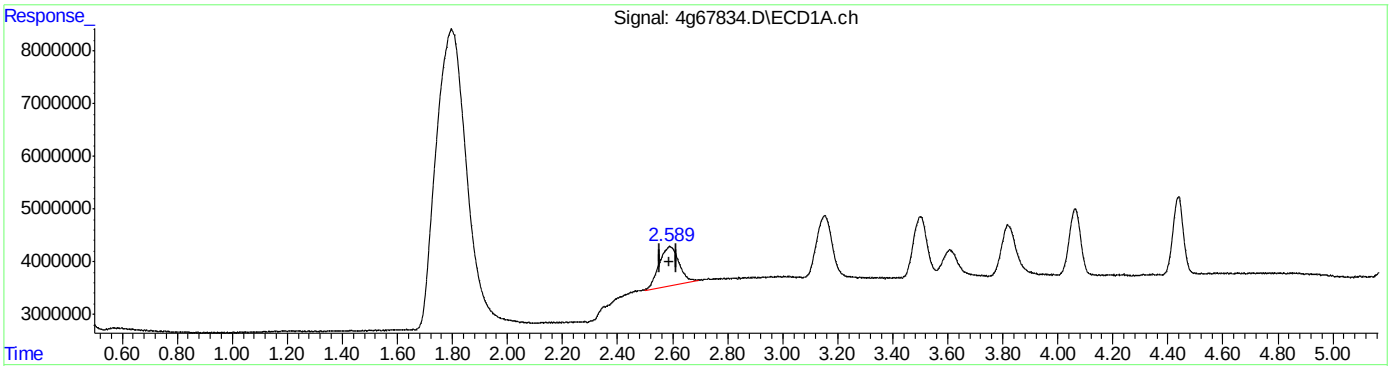
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:55:54 2016 RPT1

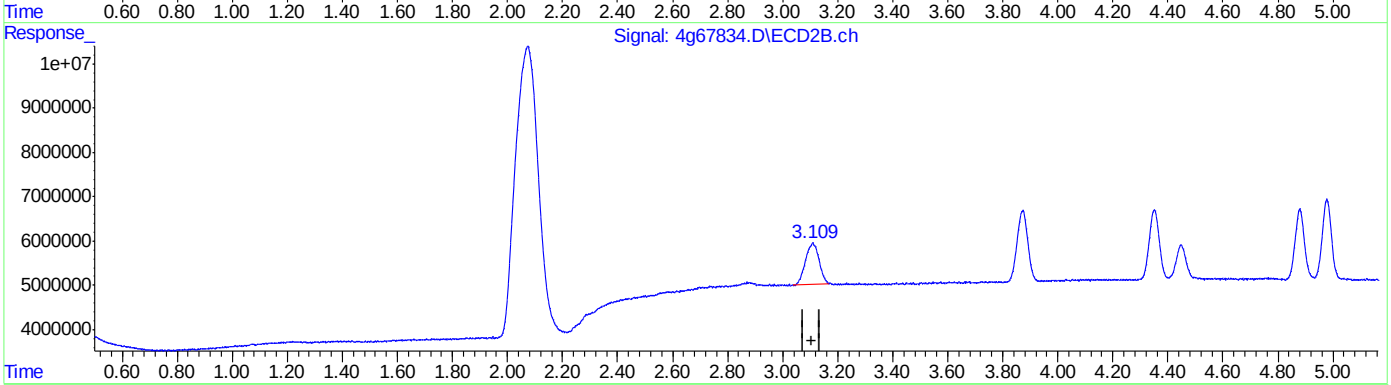
Quantitation Report (Qedit)

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

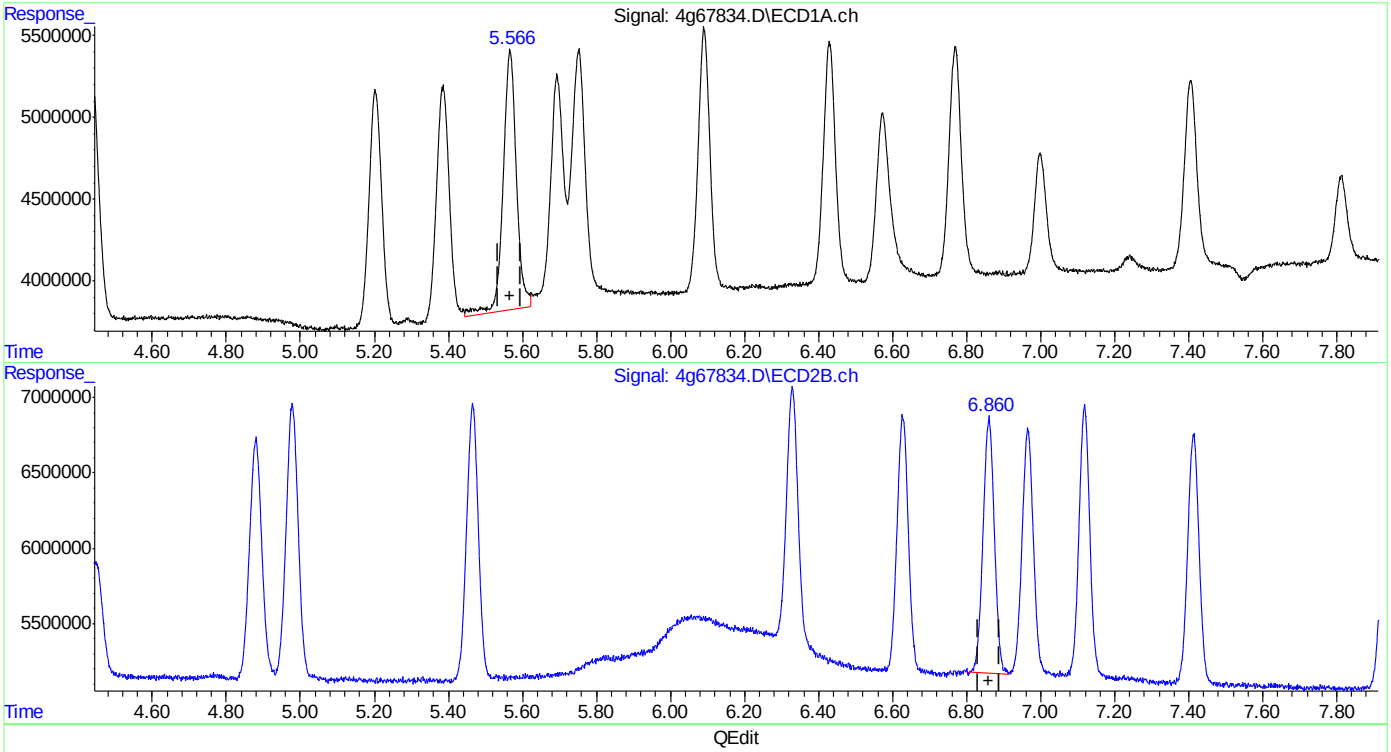
(+) = Expected Retention Time

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

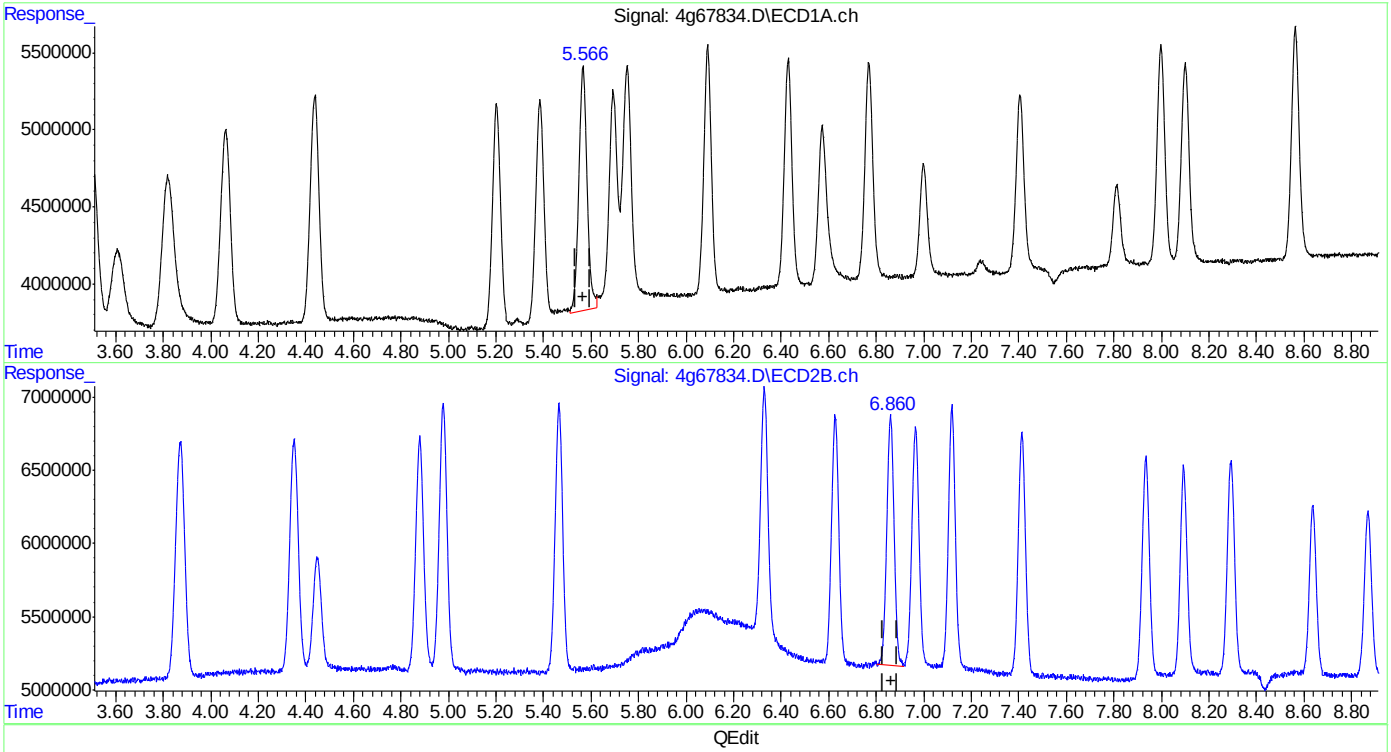
(+) = Expected Retention Time

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 JC19473

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

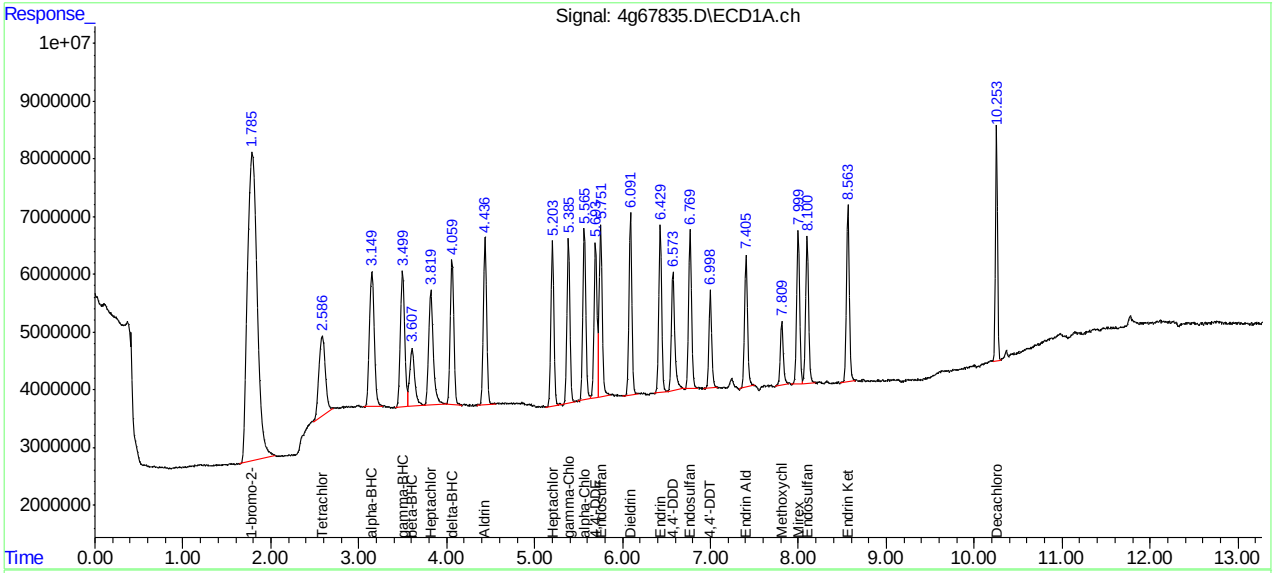
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

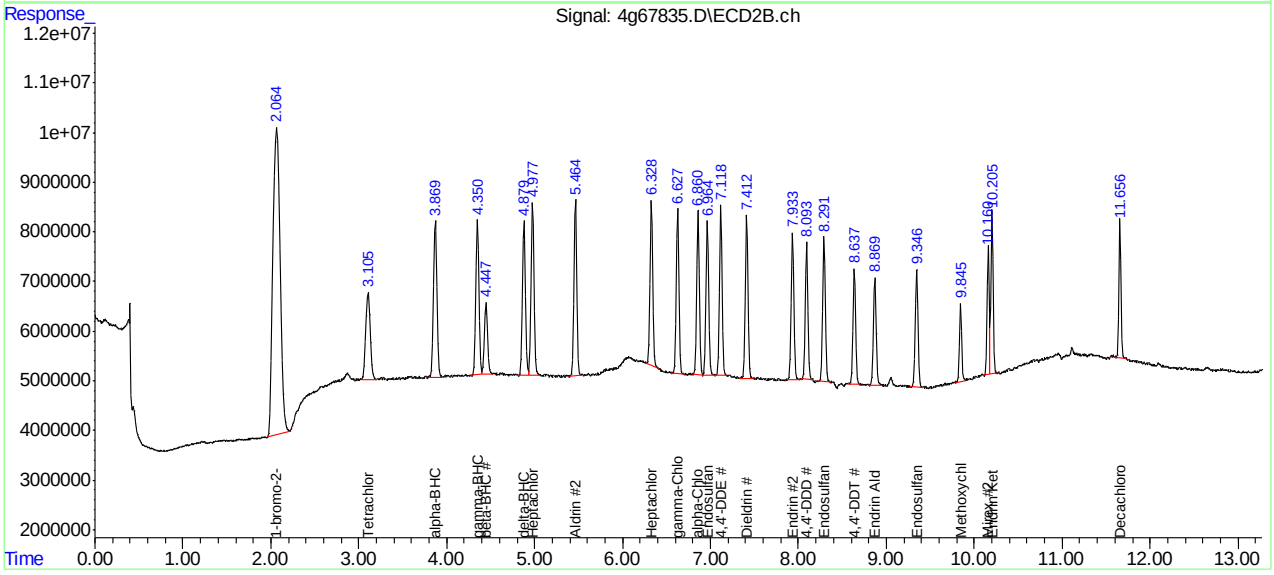
Quantitation Report (QT Reviewed)

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

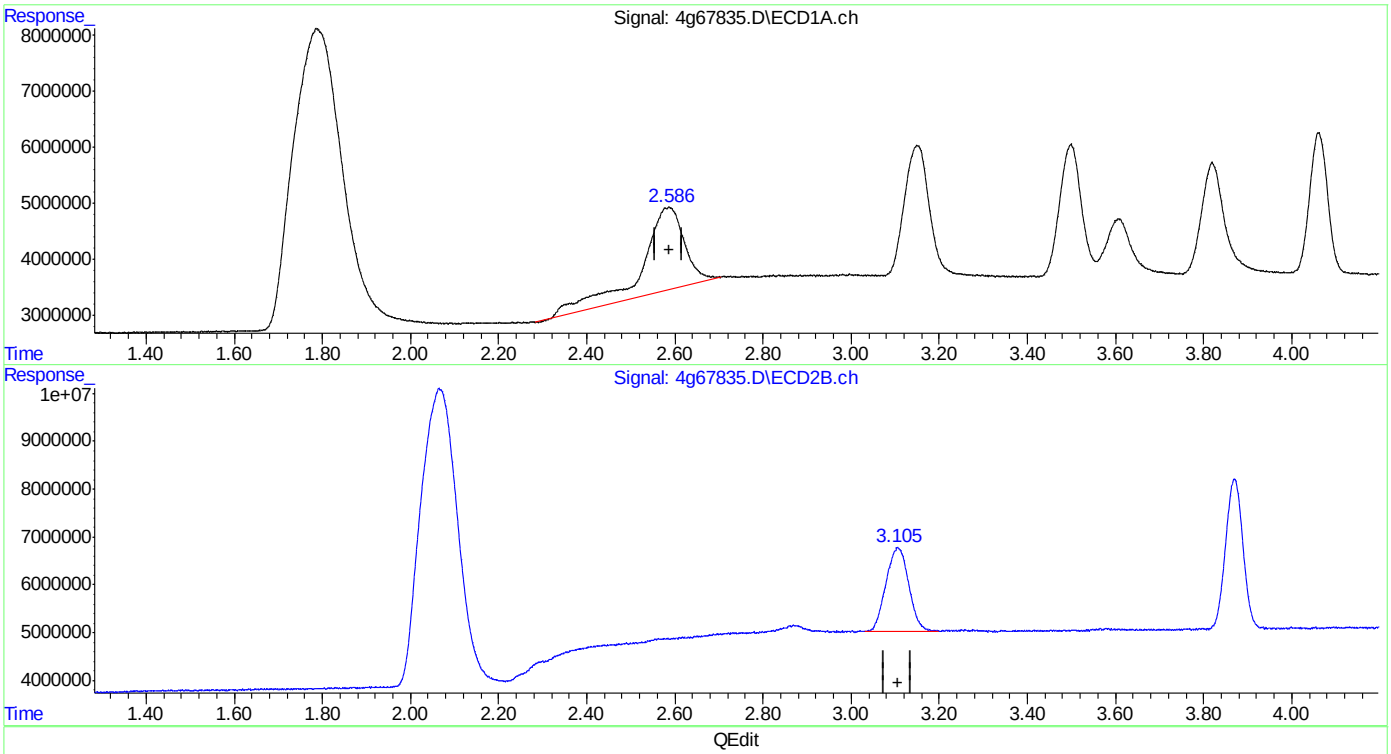
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

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

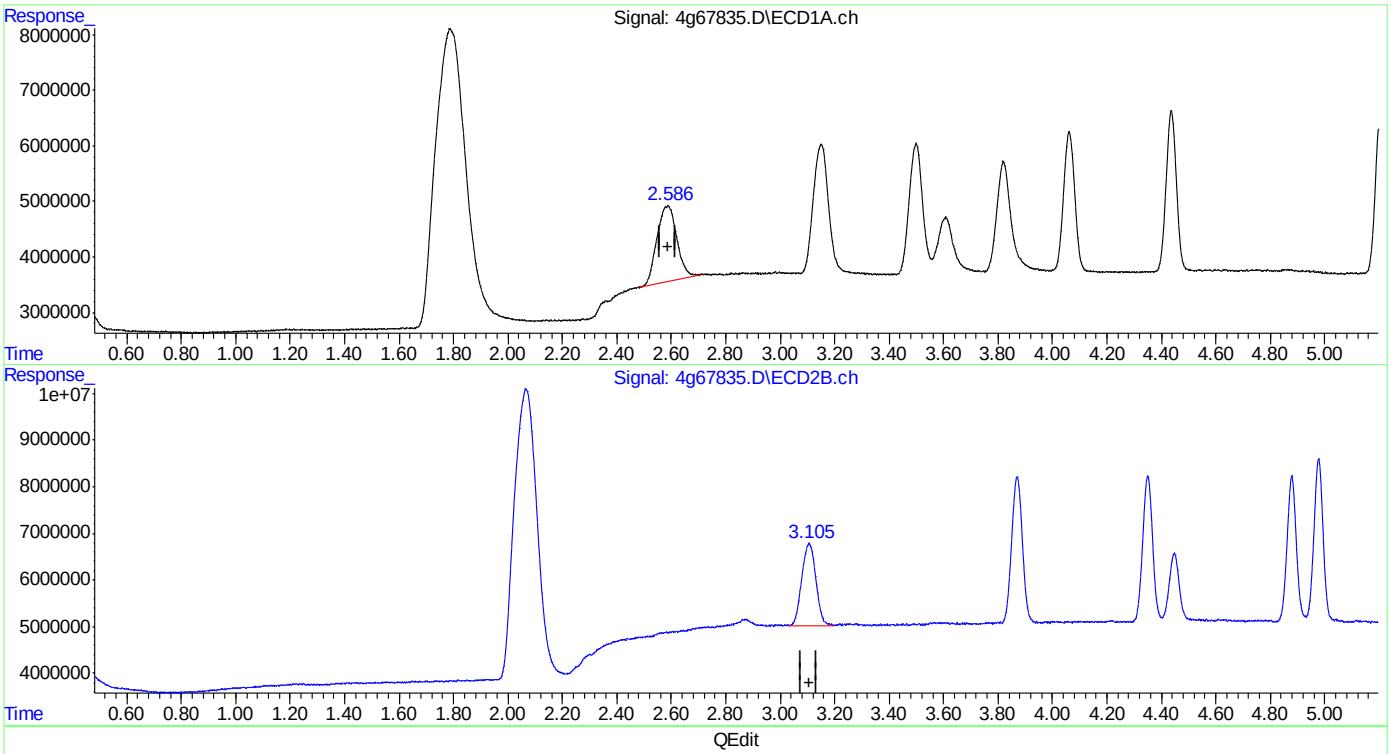
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:54:27 2016 RPT1

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



(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

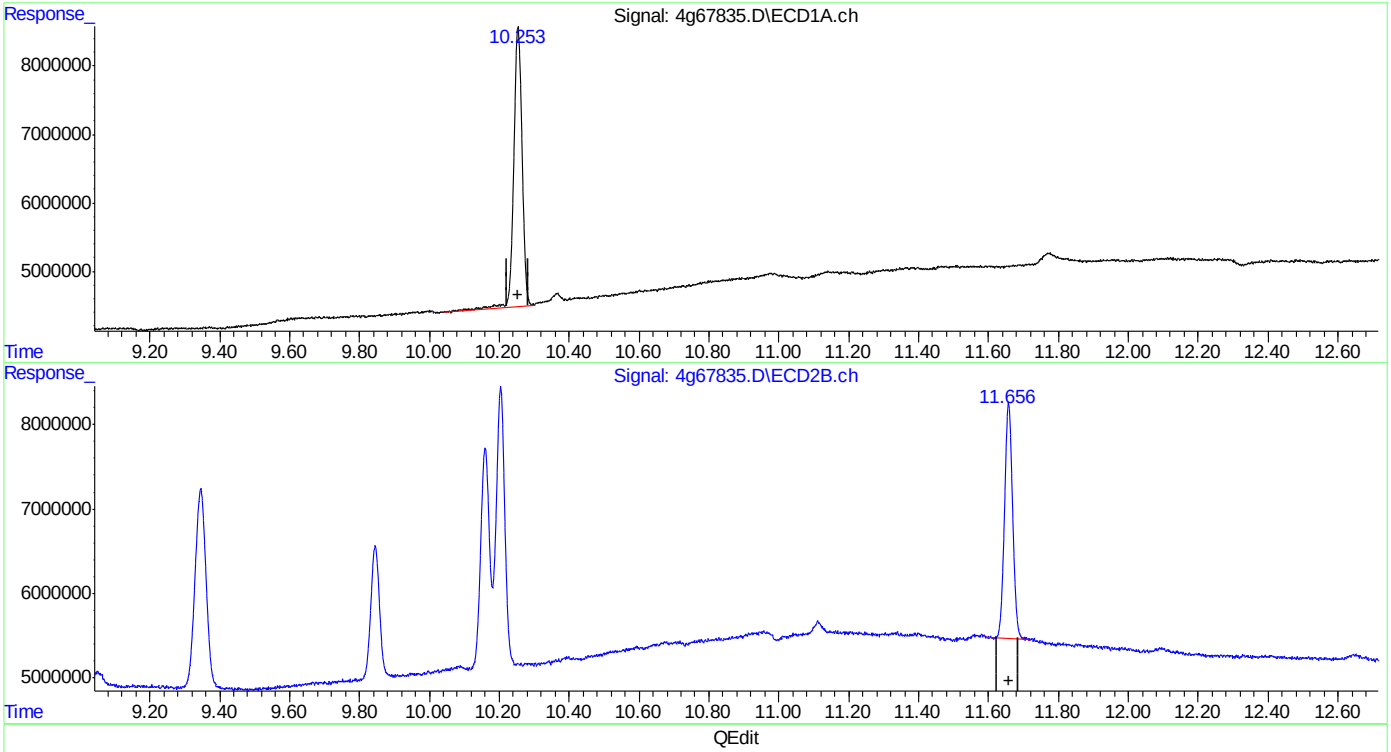
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:54:33 2016 RPT1

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



(24) Decachlorobiphenyl (SA)
10.254min 8.450 PPB
response 67519126

(24) Decachlorobiphenyl #2 (SA)
11.658min 7.809 PPB
response 44644072

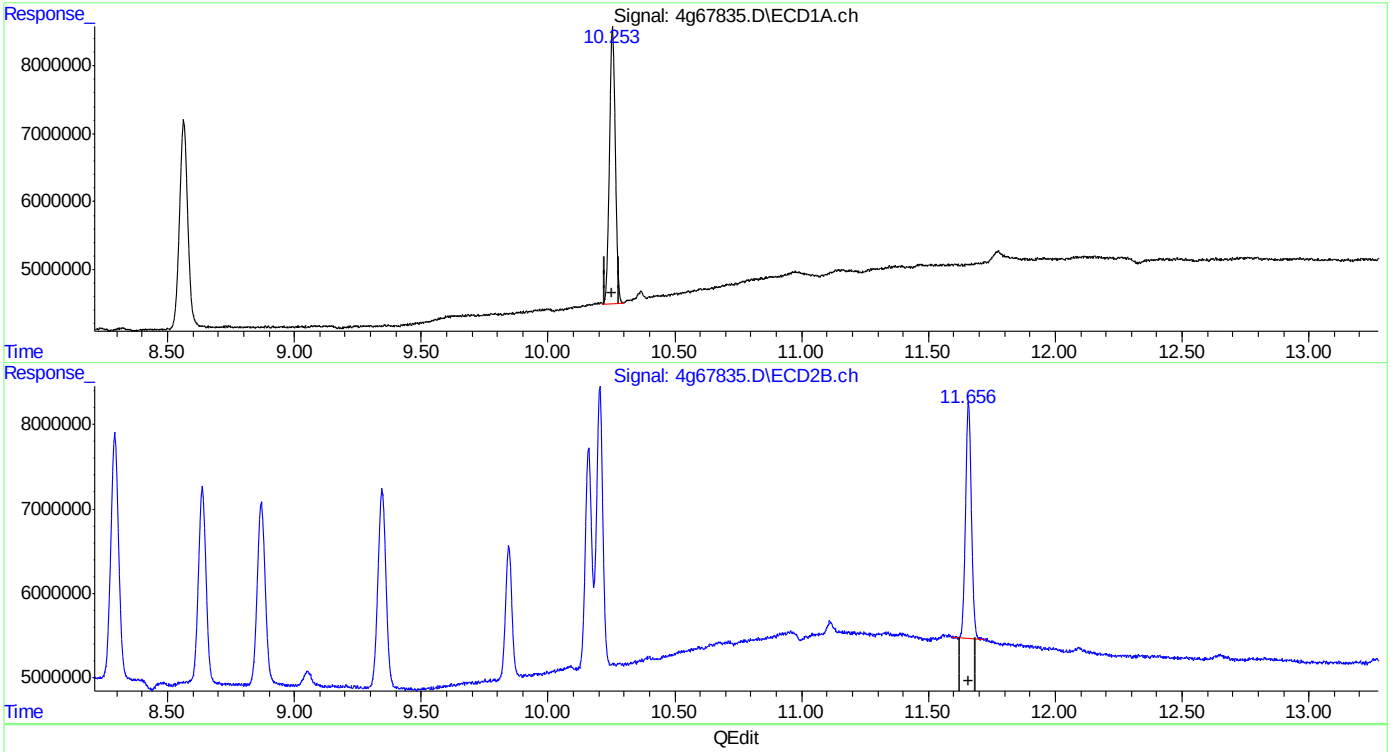
(+) = Expected Retention Time

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

SGS ACCUTEST JC19473

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

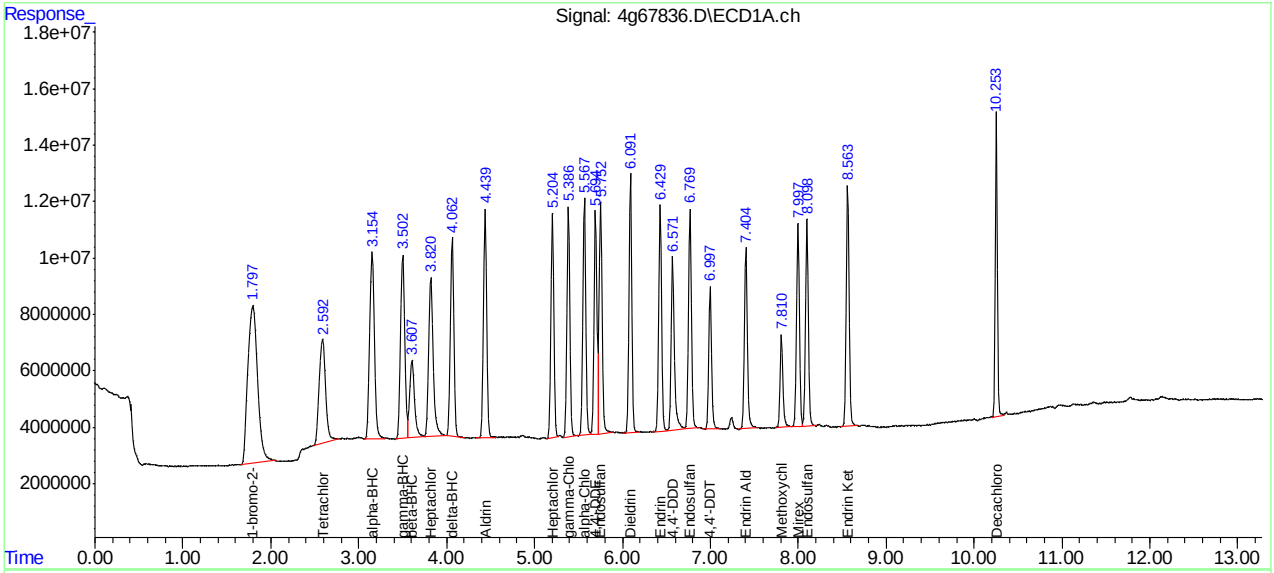
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

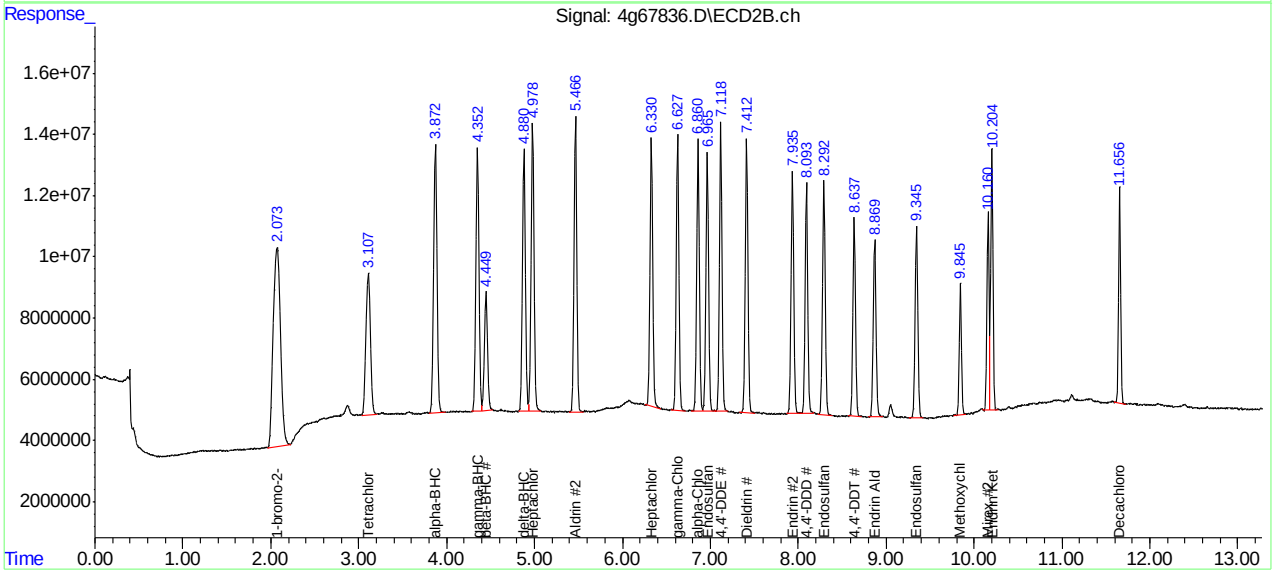
Quantitation Report (QT Reviewed)

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

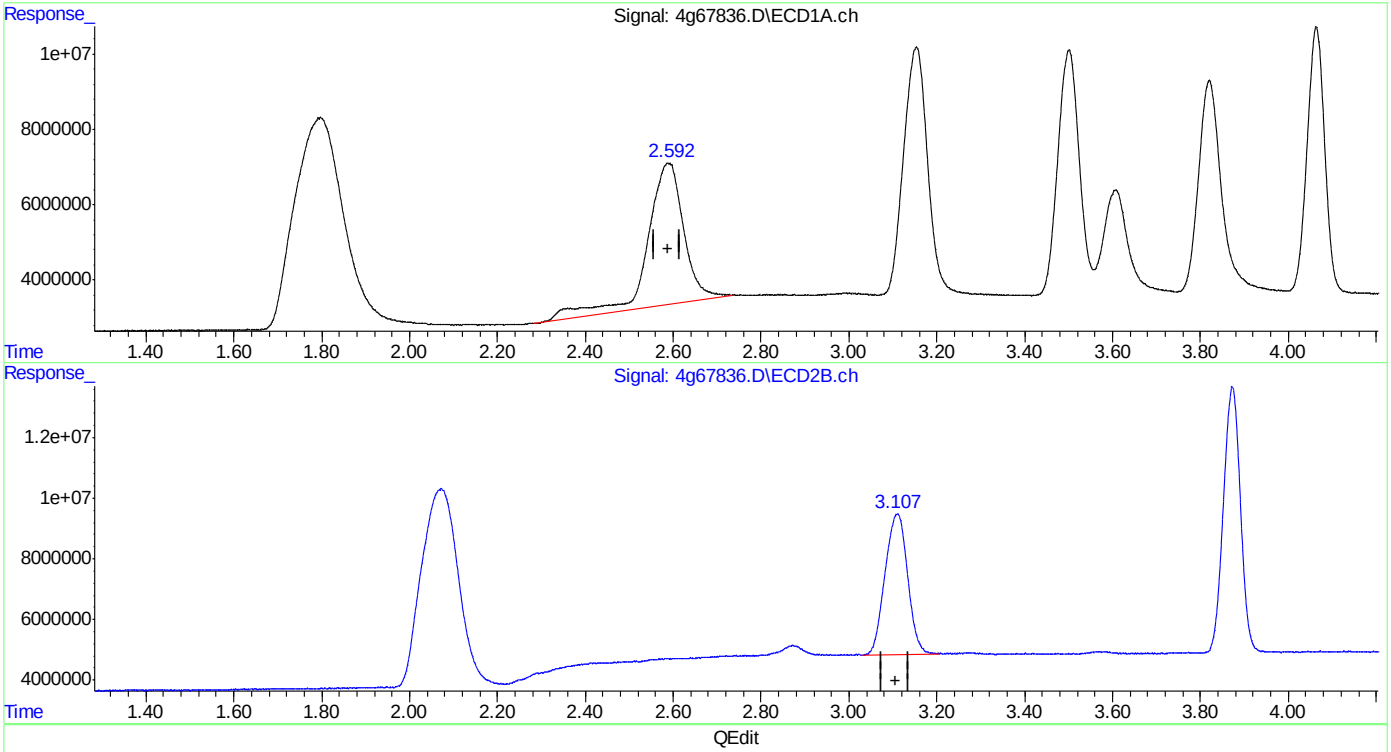
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

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



(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

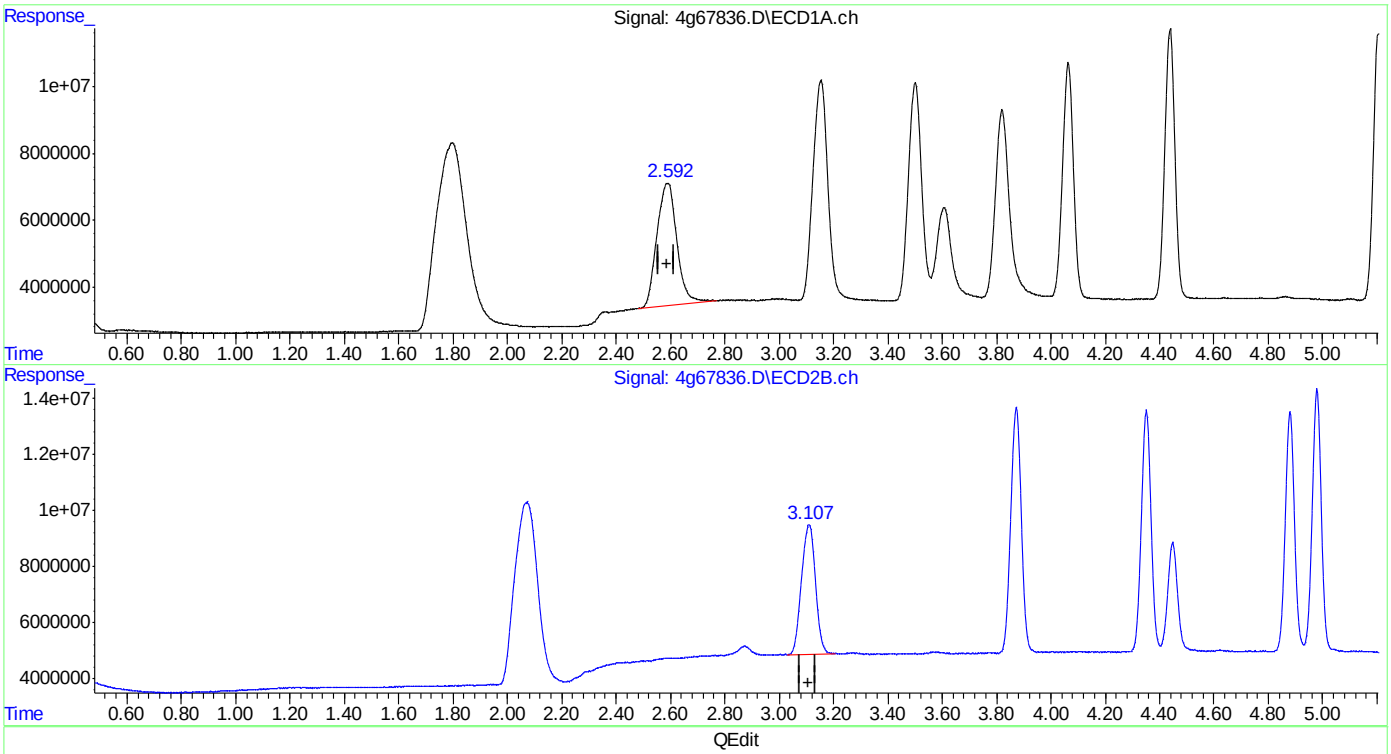
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:53:22 2016 RPT1

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

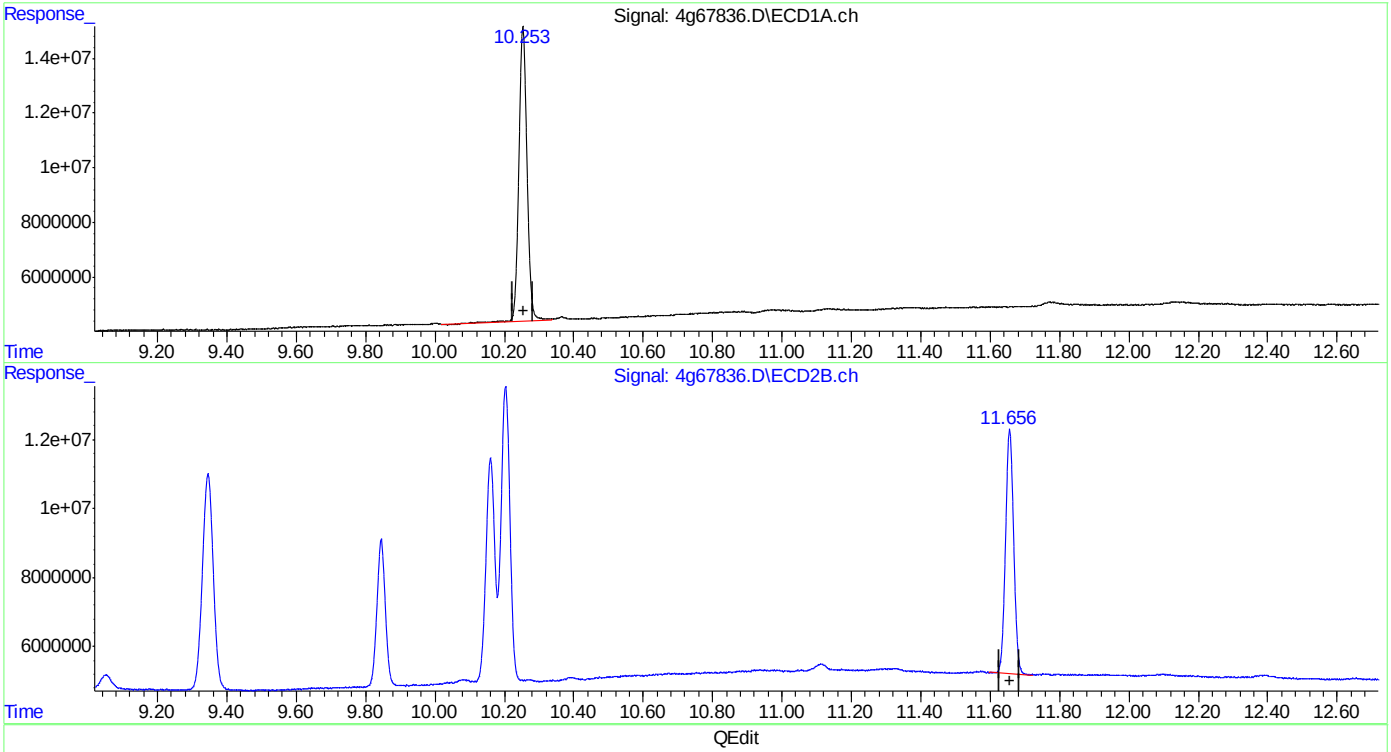
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:53:30 2016 RPT1

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

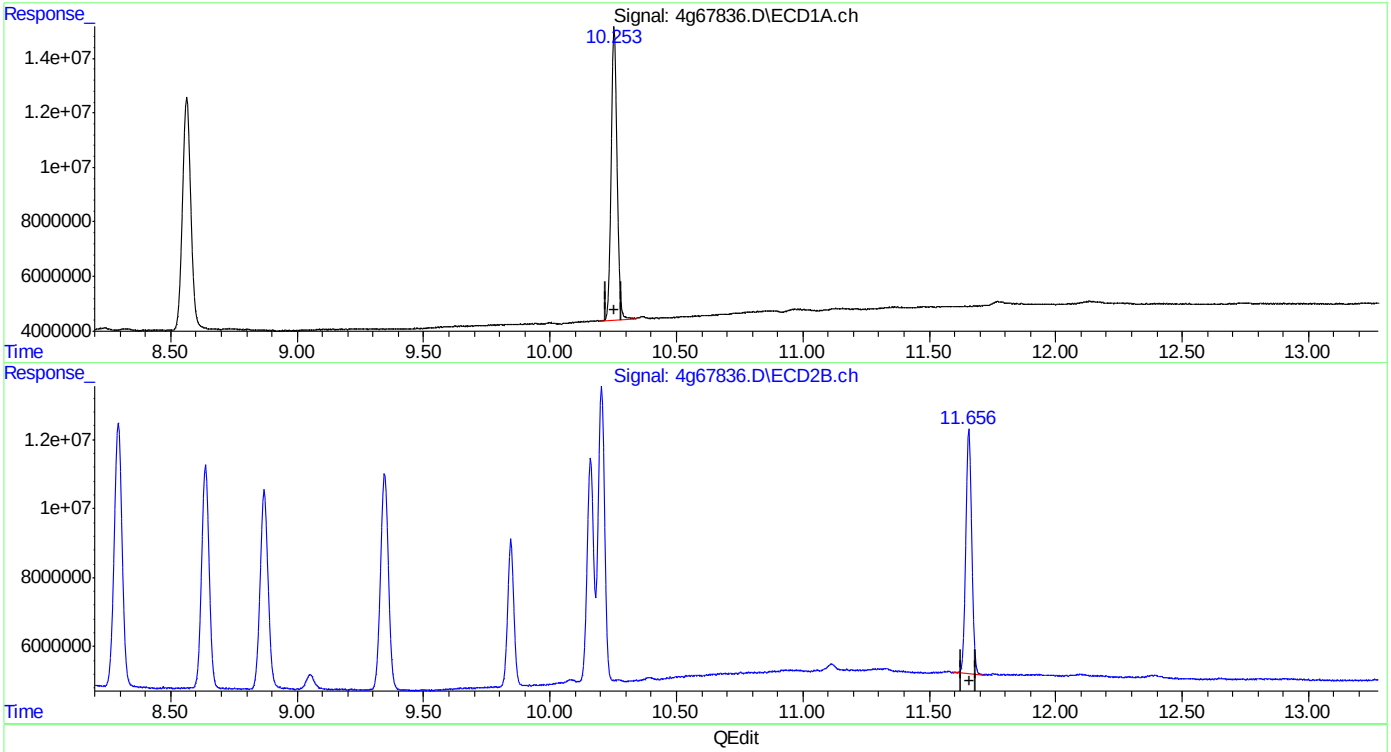
SGS ACCUTEST JC19473

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

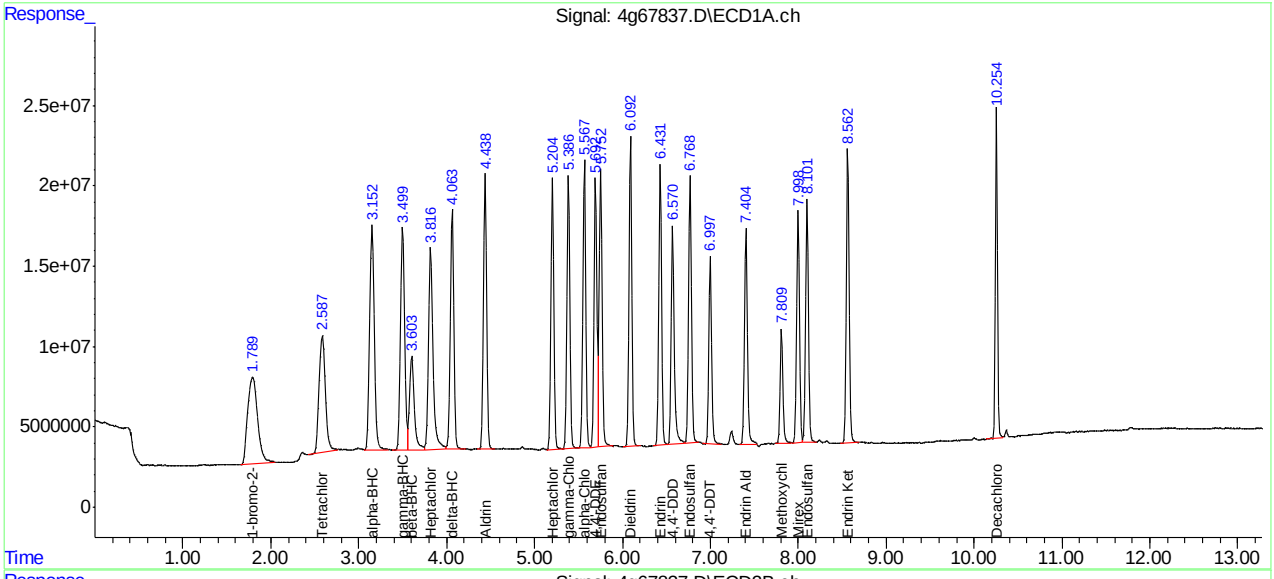
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

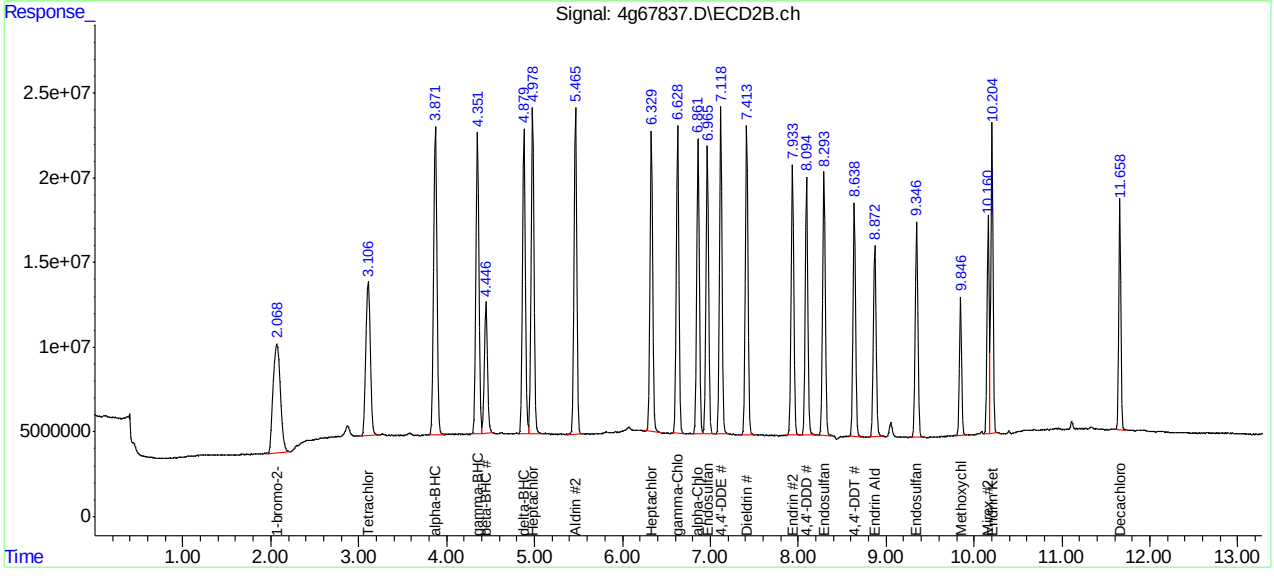
Quantitation Report (QT Reviewed)

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





SGS ACCUTEST JC19473

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

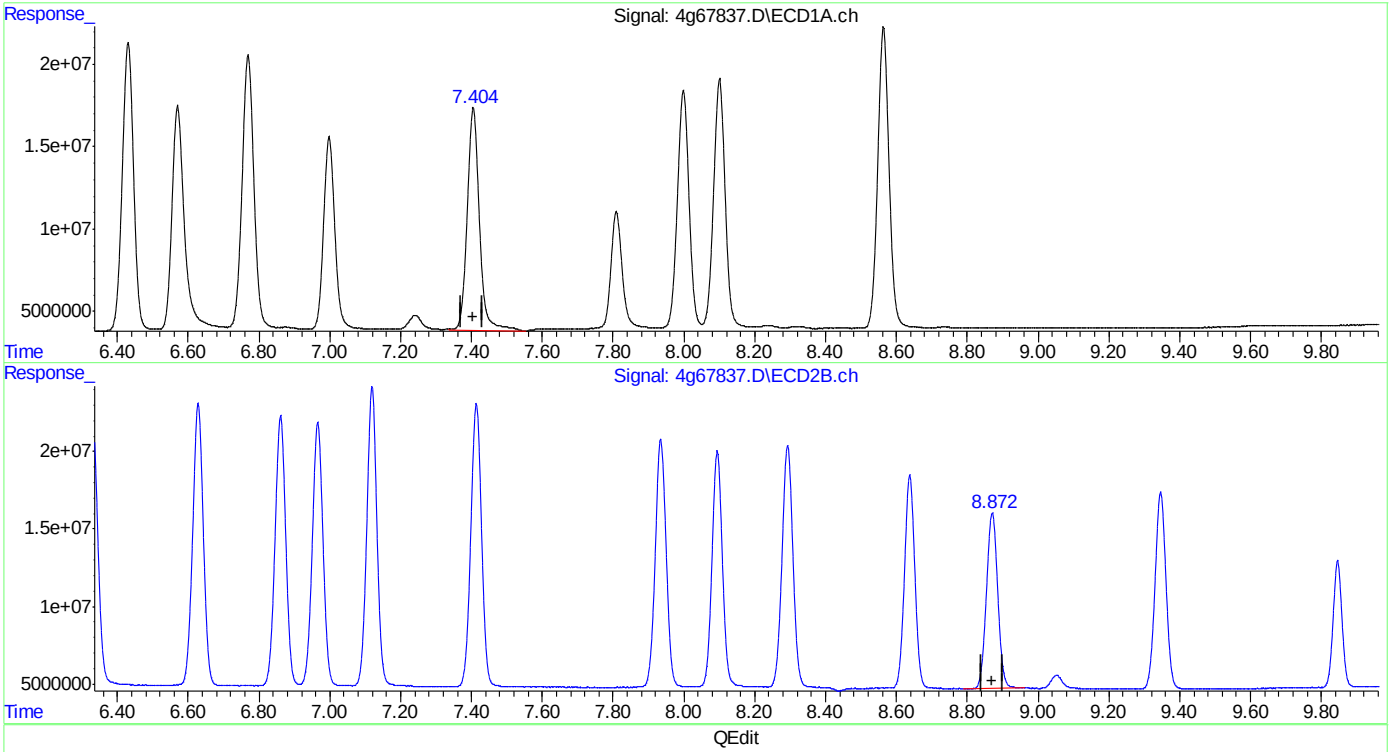
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin aldehyde	7421-93-4	1	7.40	Poorly defined baseline
Methoxychlor	72-43-5	1	7.81	Poorly defined baseline

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

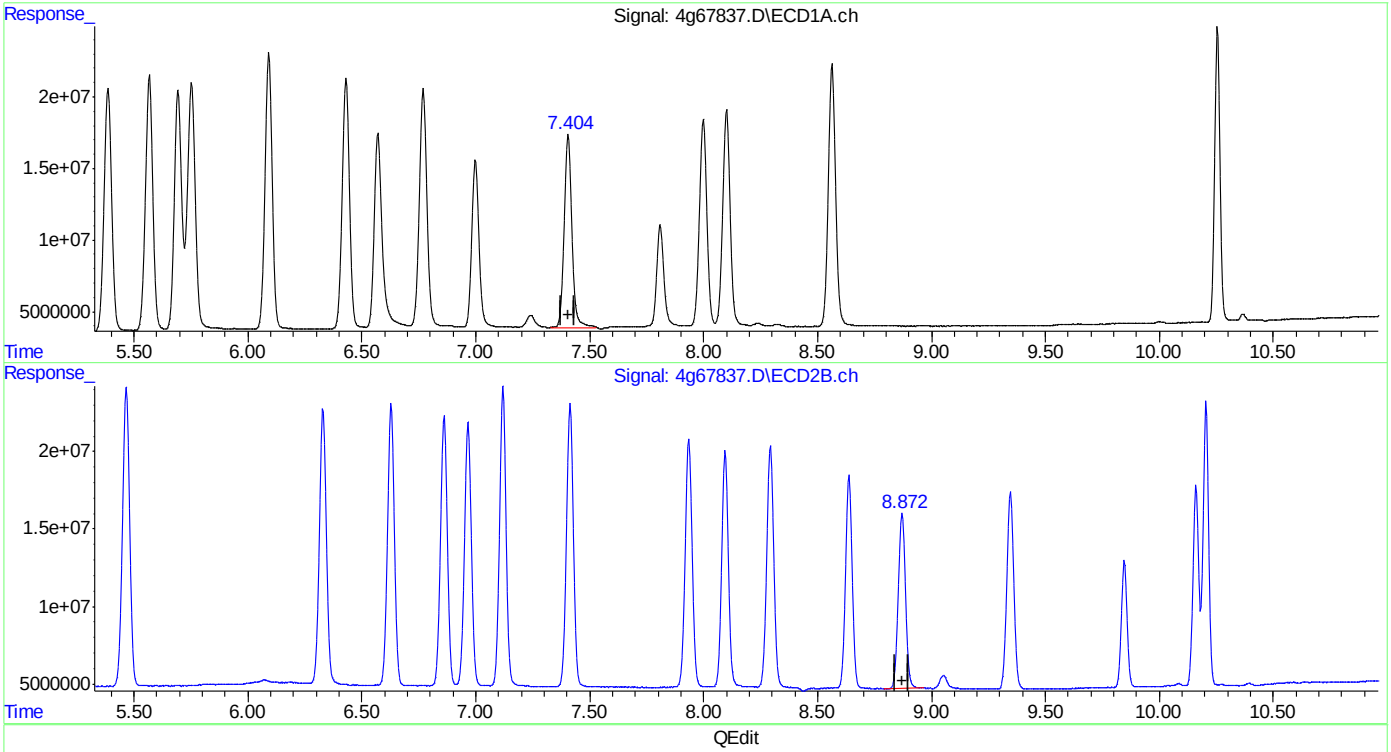
SGS ACCUTEST JC19473

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

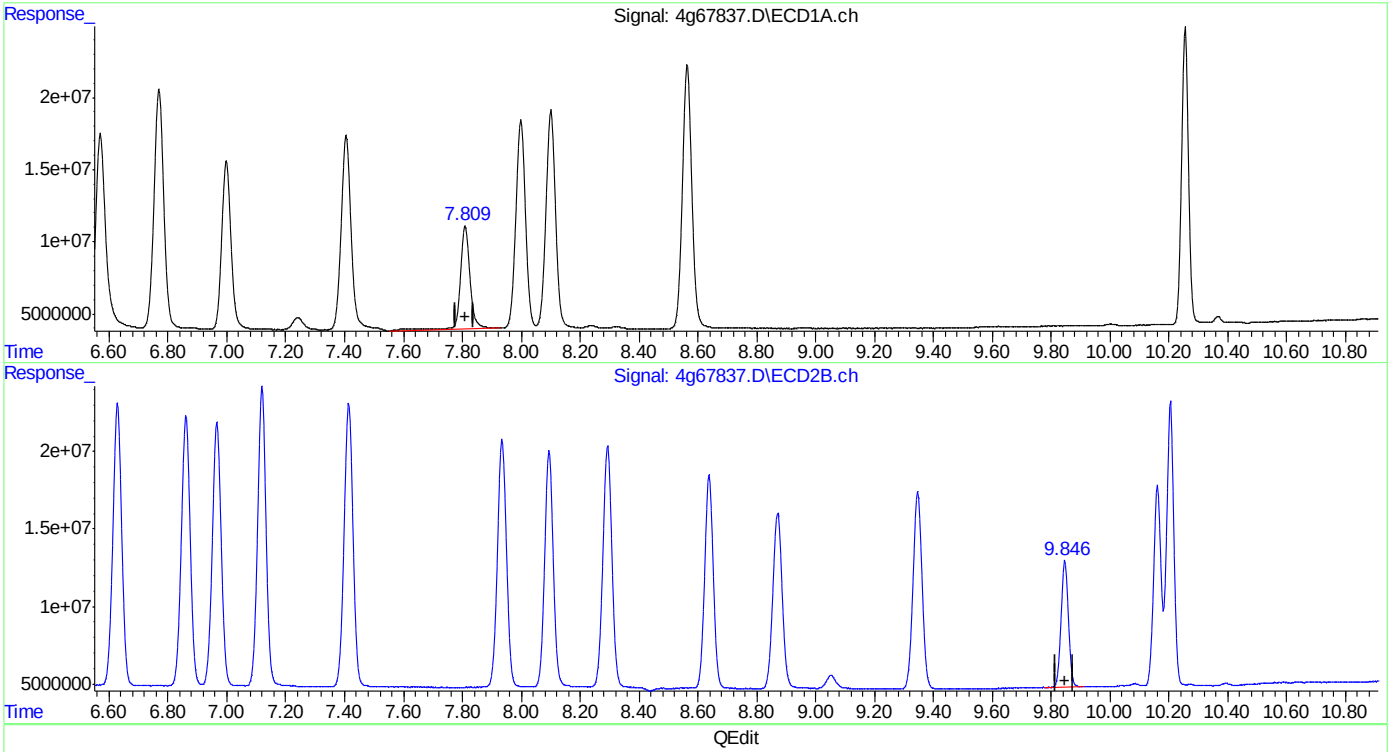
SGS ACCUTEST JC19473

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

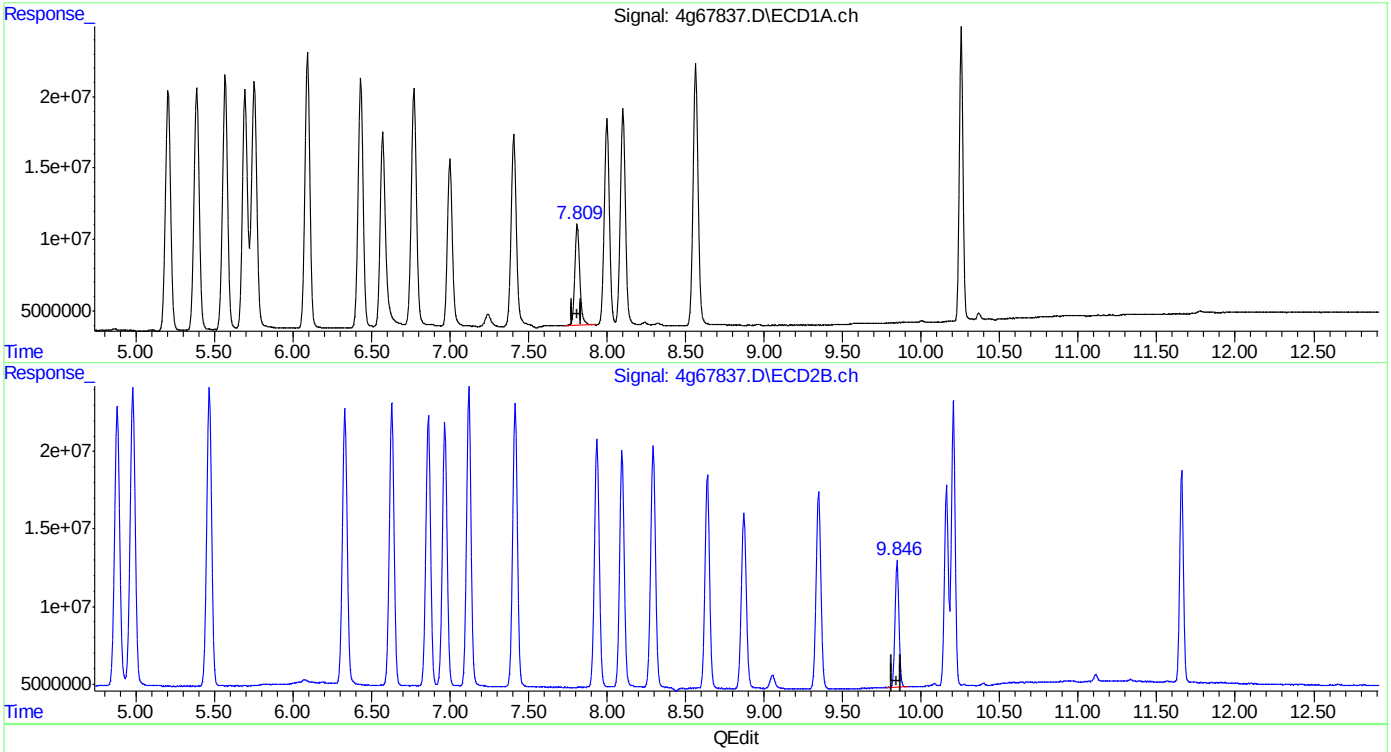
SGS ACCUTEST JC19473

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 JC19473

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.

9.6.7

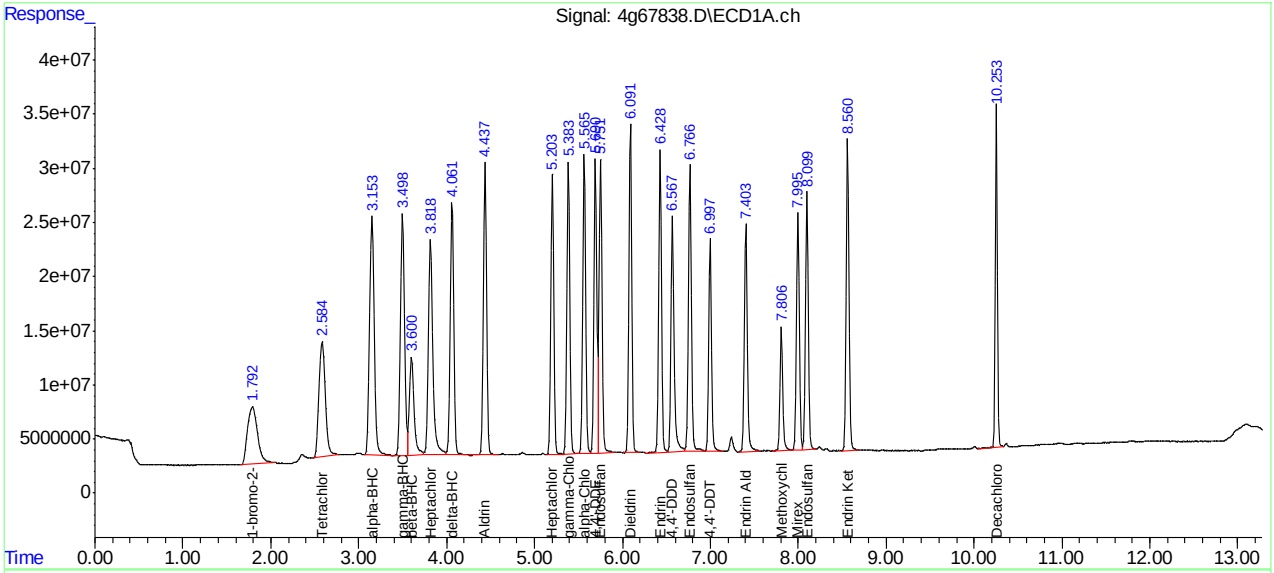
9

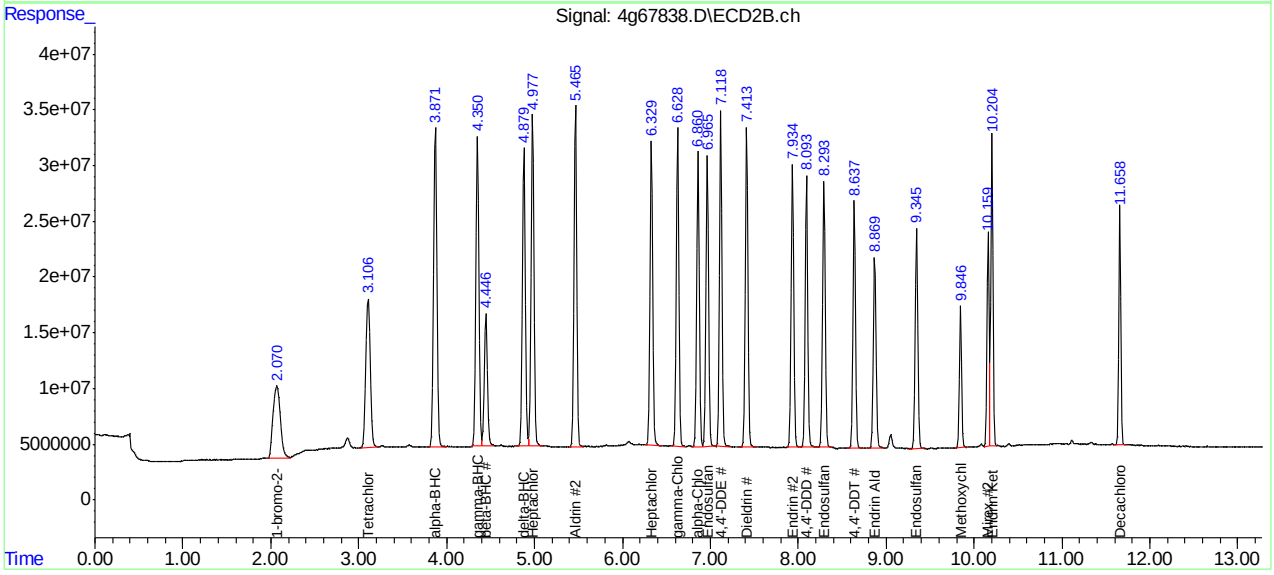
Quantitation Report (QT Reviewed)

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

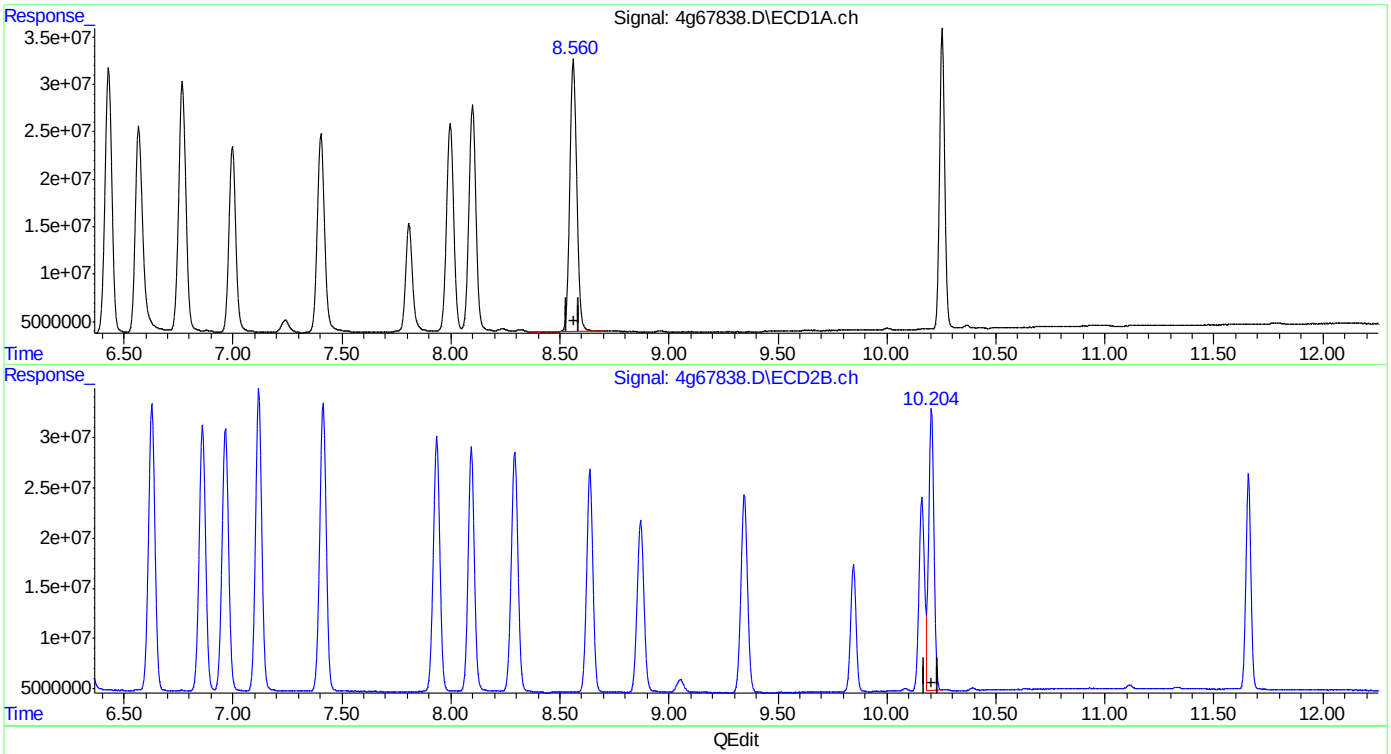
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin ketone	53494-70-5	1	8.56	Poorly defined baseline

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

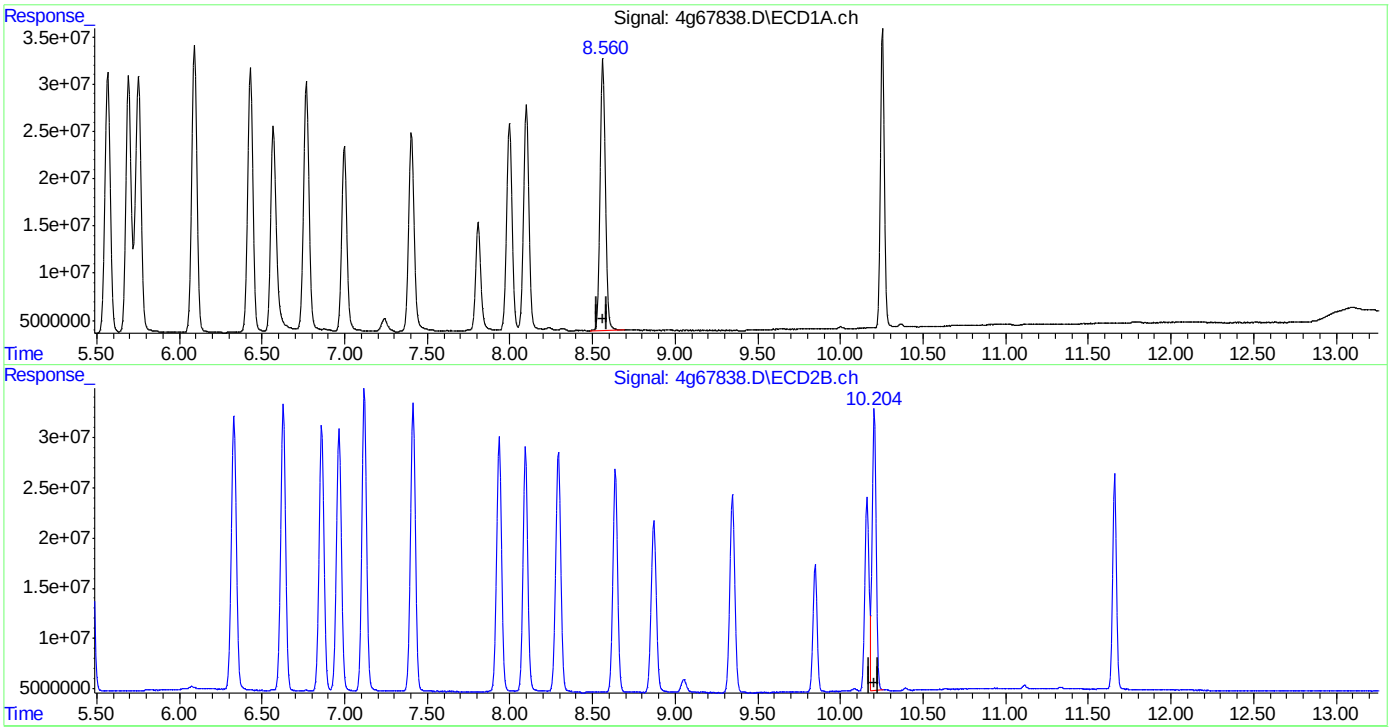
SGS ACCUTEST JC19473

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

SGS ACCUTEST JC19473

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

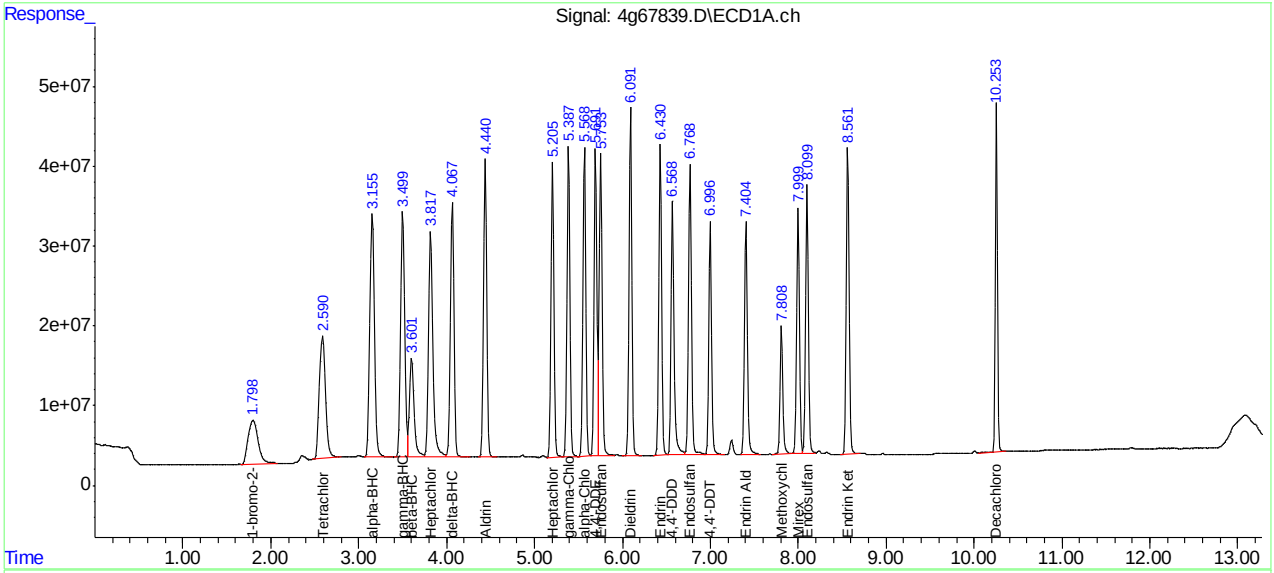
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

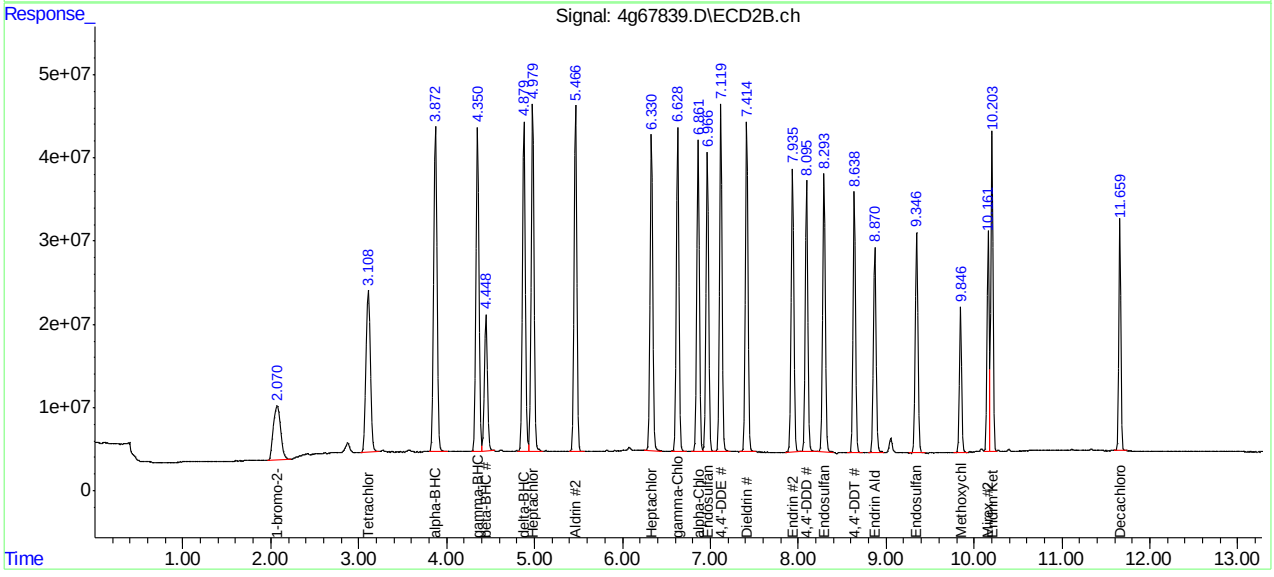
Quantitation Report (QT Reviewed)

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						

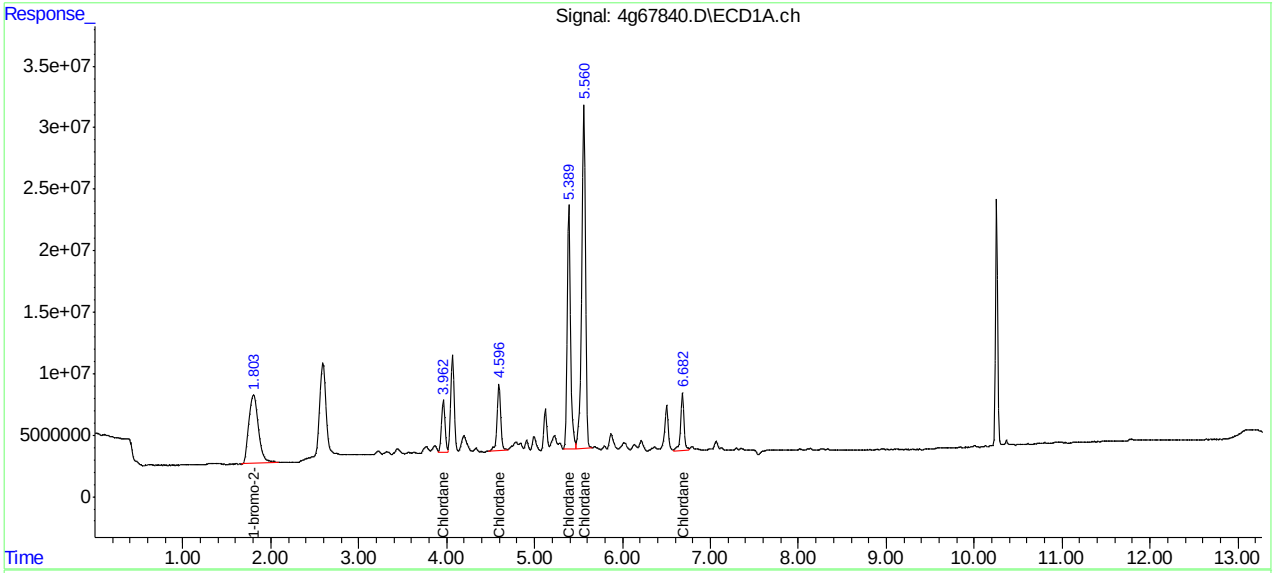
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

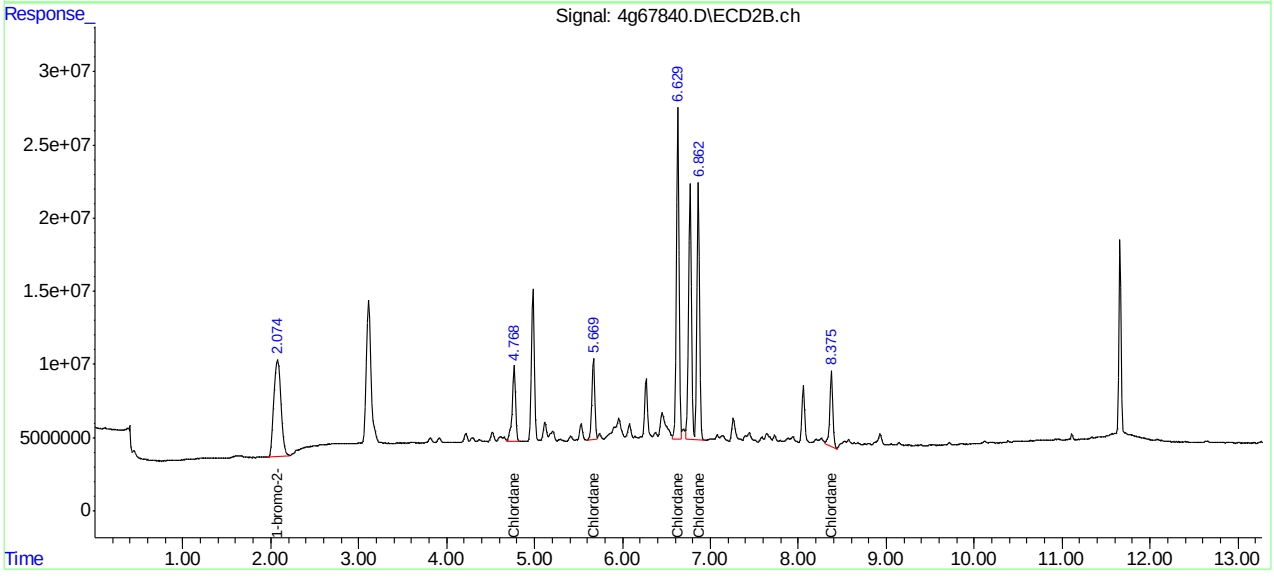
Quantitation Report (QT Reviewed)

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

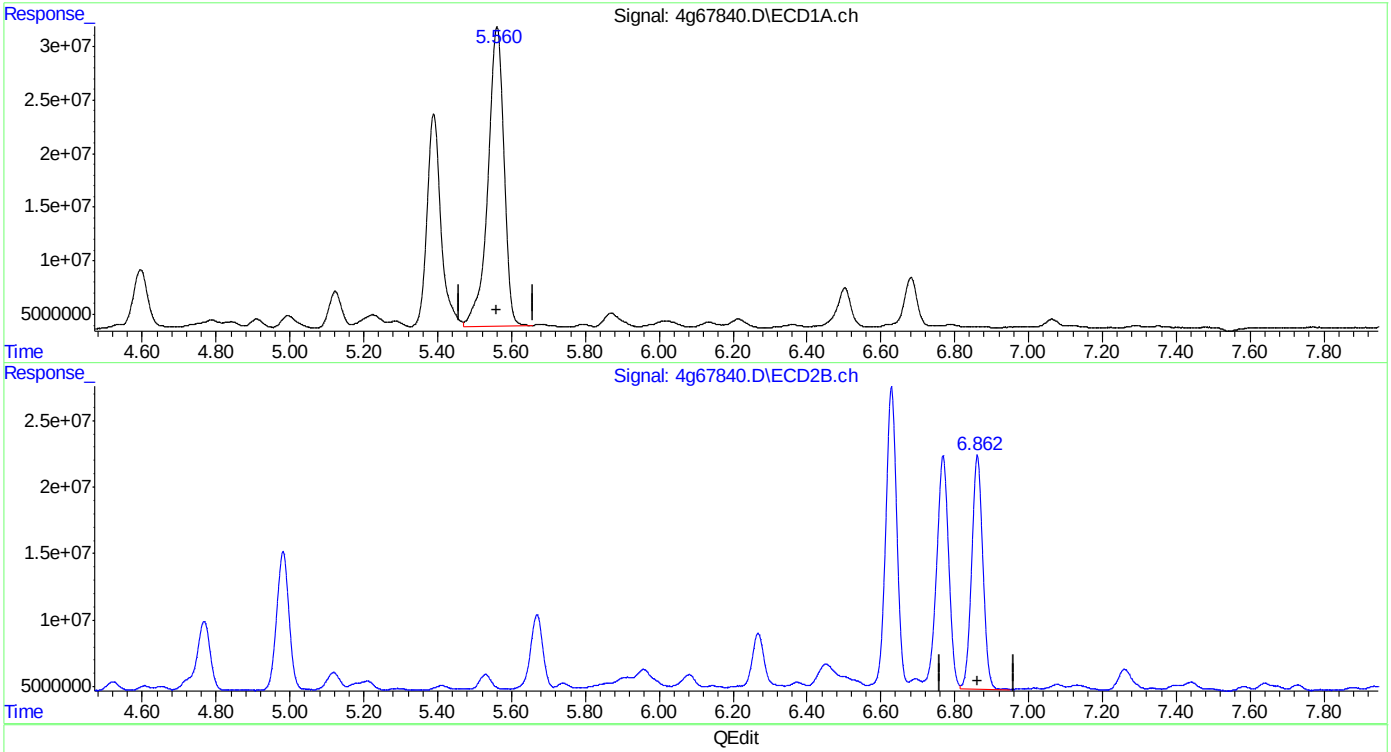
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Chlordane-D		2	6.86	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.66	Poorly defined baseline

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
4PST1778.M Tue May 03 15:10:33 2016 RPT1

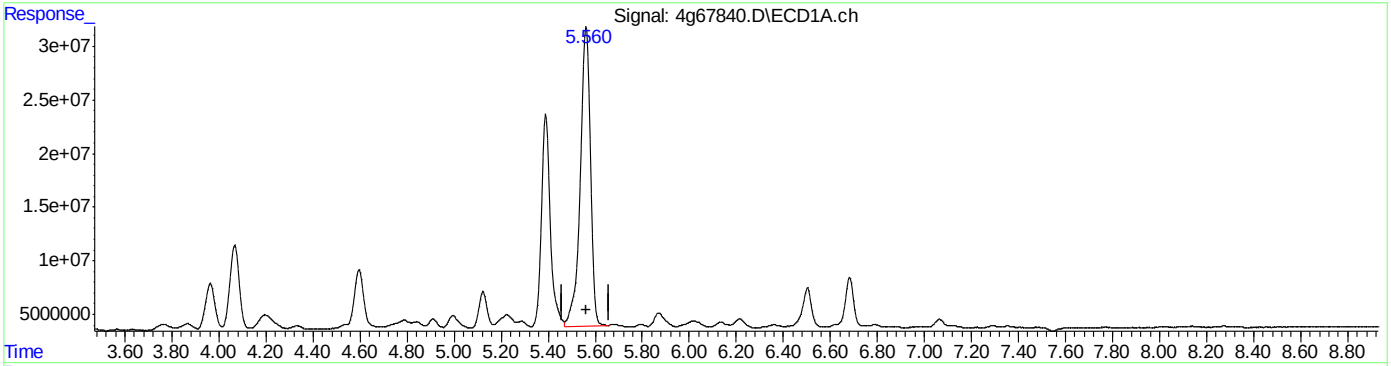
SGS ACCUTEST JC19473

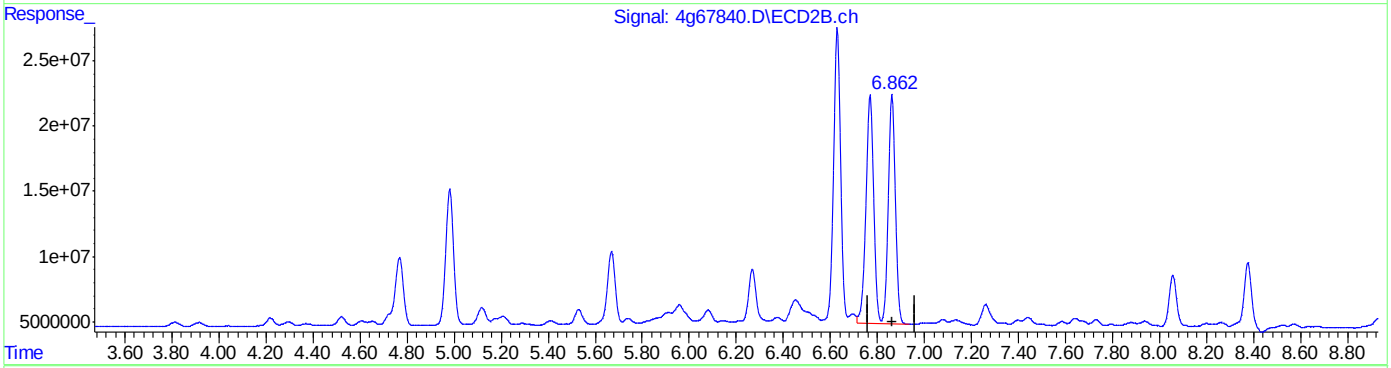
Quantitation Report (Qedit)

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
4PST1778.M Tue May 03 15:10:44 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 : 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.

9.6.10

9

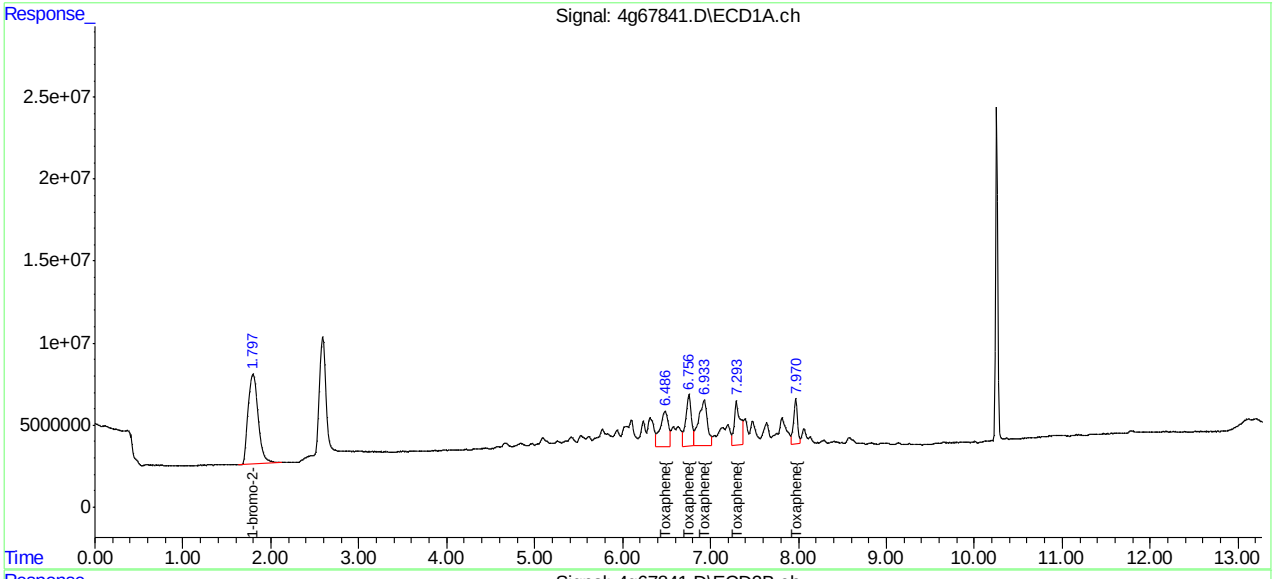
SGS ACCUTEST JC19473

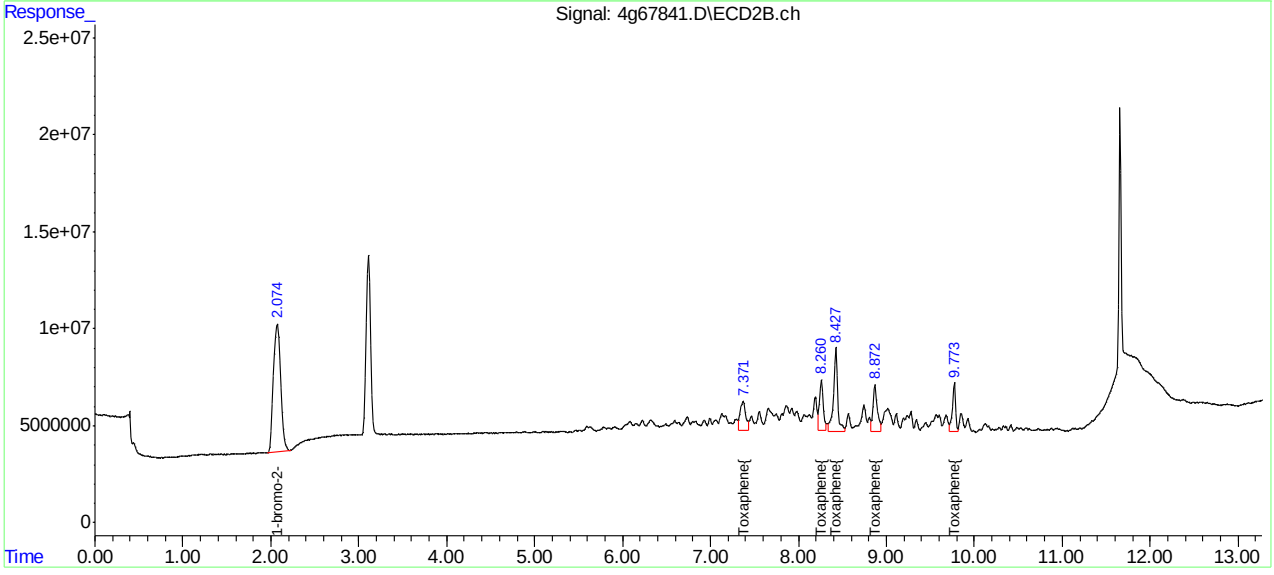
Quantitation Report (QT Reviewed)

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.

9.6.11

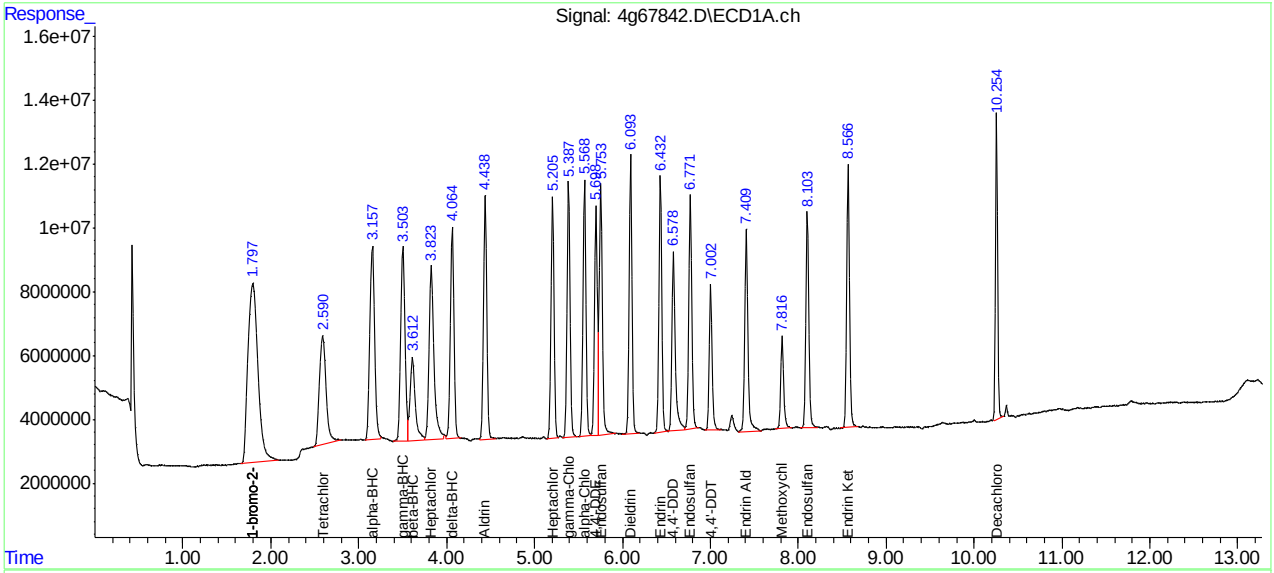
9

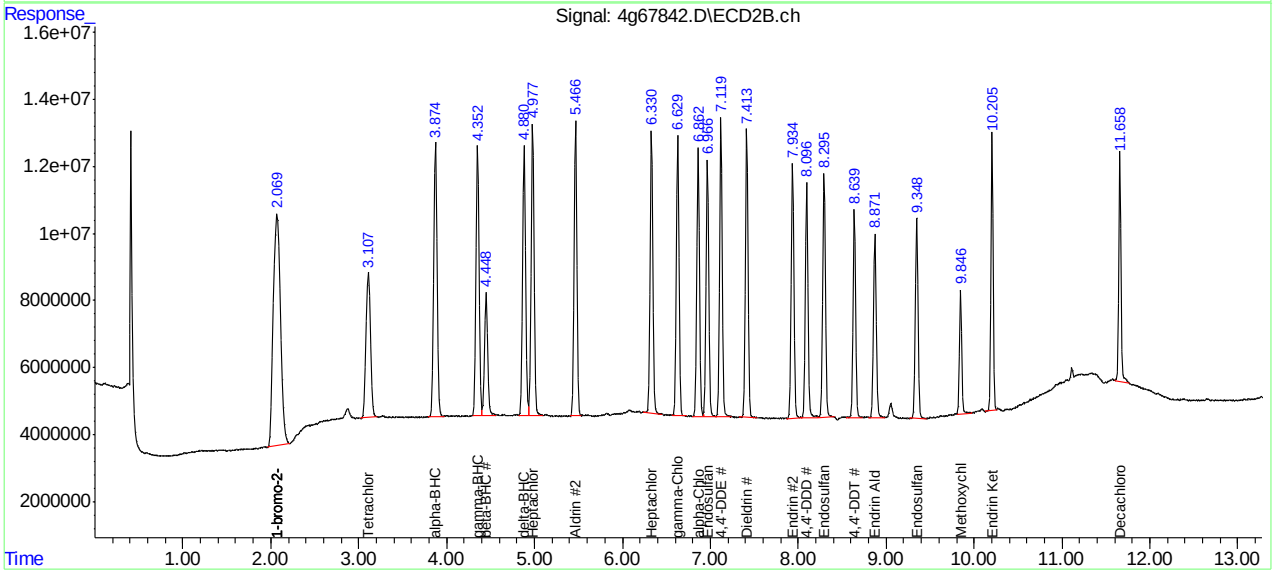
Quantitation Report (QT Reviewed)

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

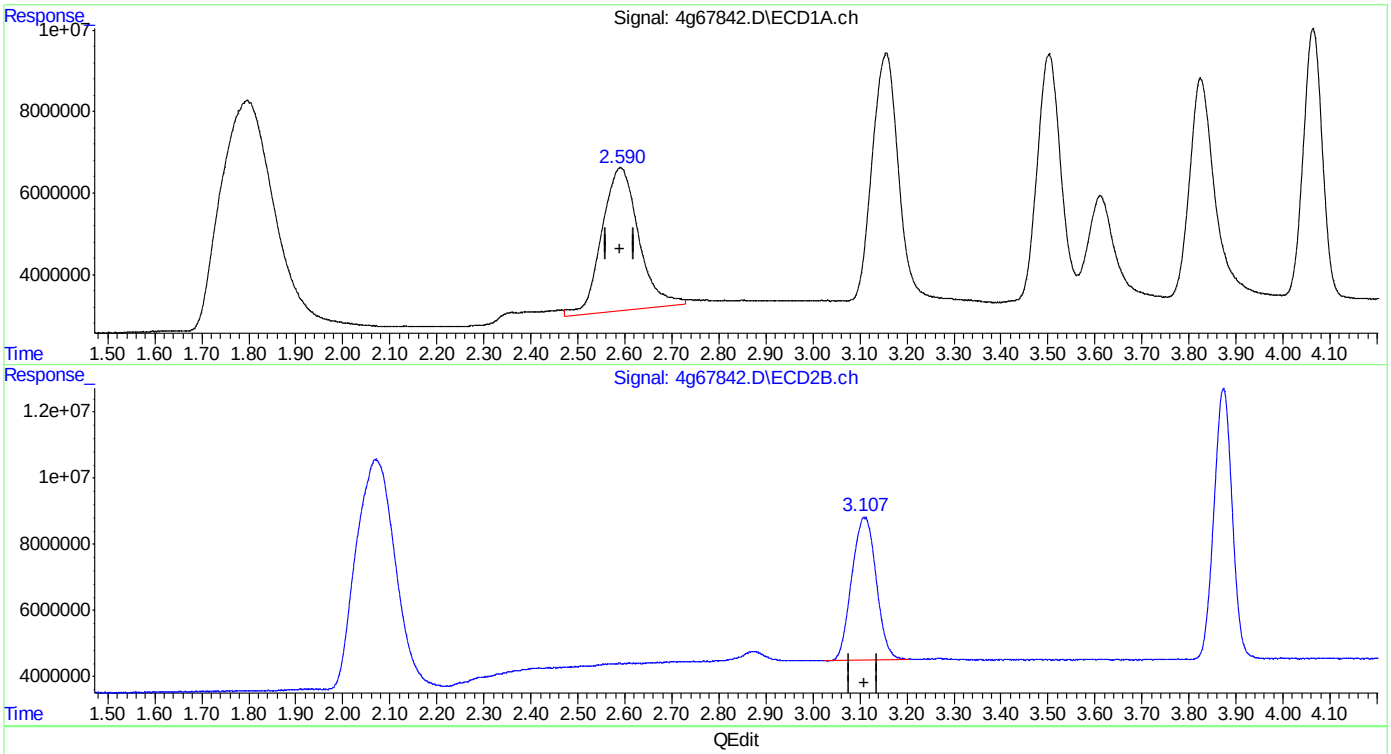
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
4,4'-DDT	50-29-3	2	8.64	Poor instrument integration
Methoxychlor	72-43-5	2	9.85	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.25	Poor instrument integration
Decachlorobiphenyl	2051-24-3	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

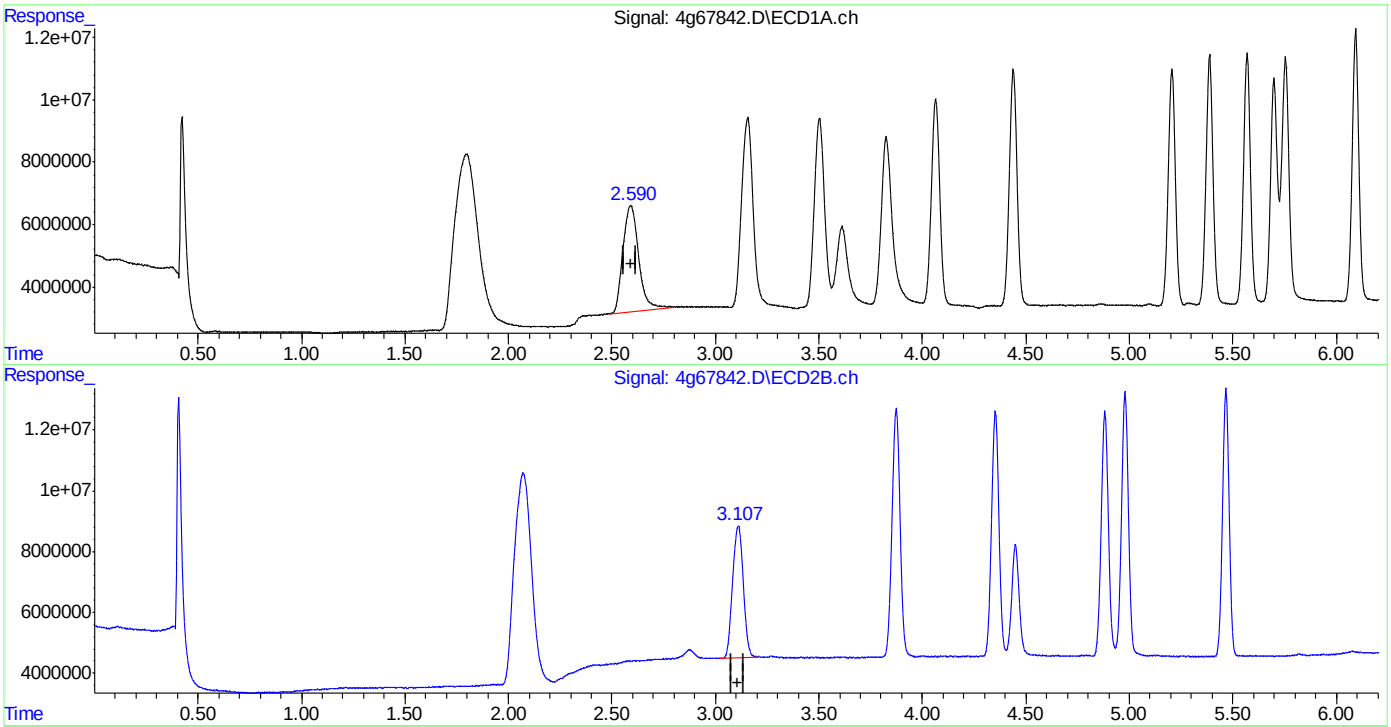
(+) = Expected Retention Time

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



QEdit

(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

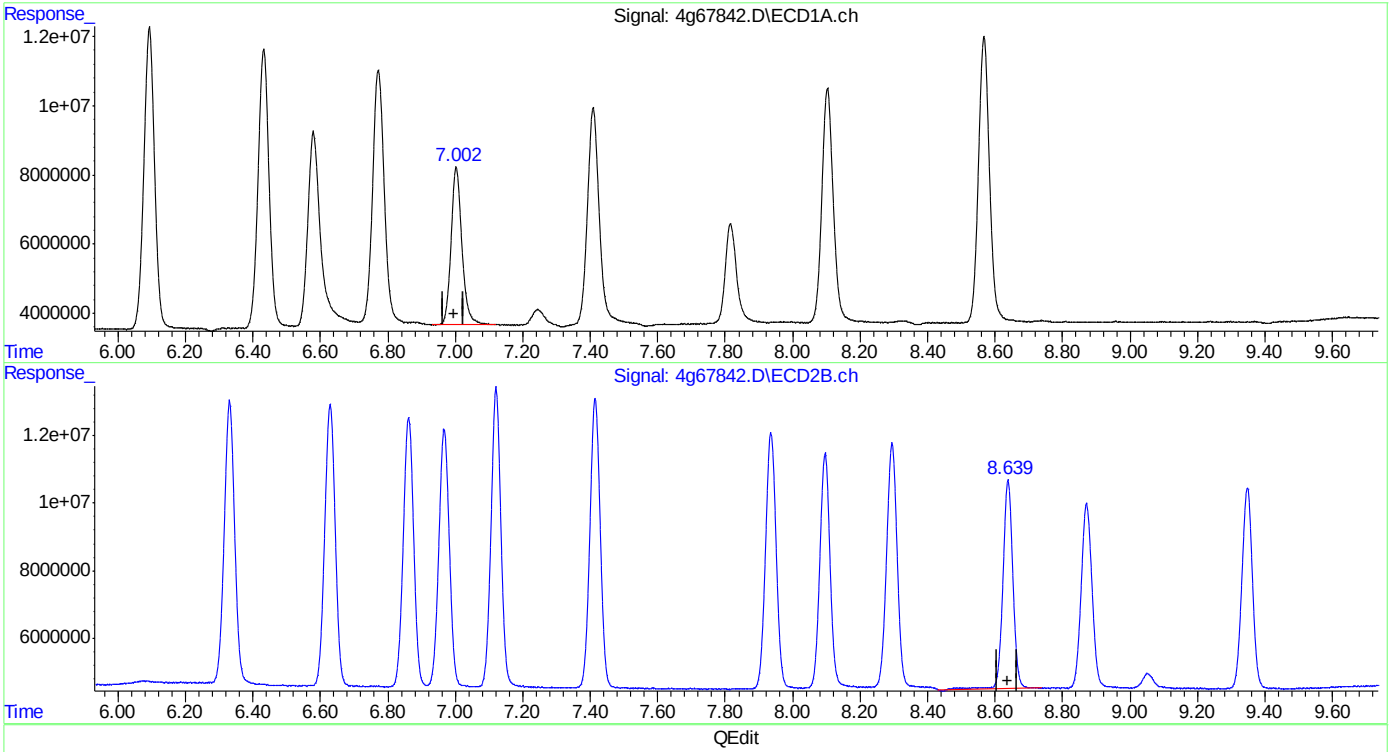
(+) = Expected Retention Time

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

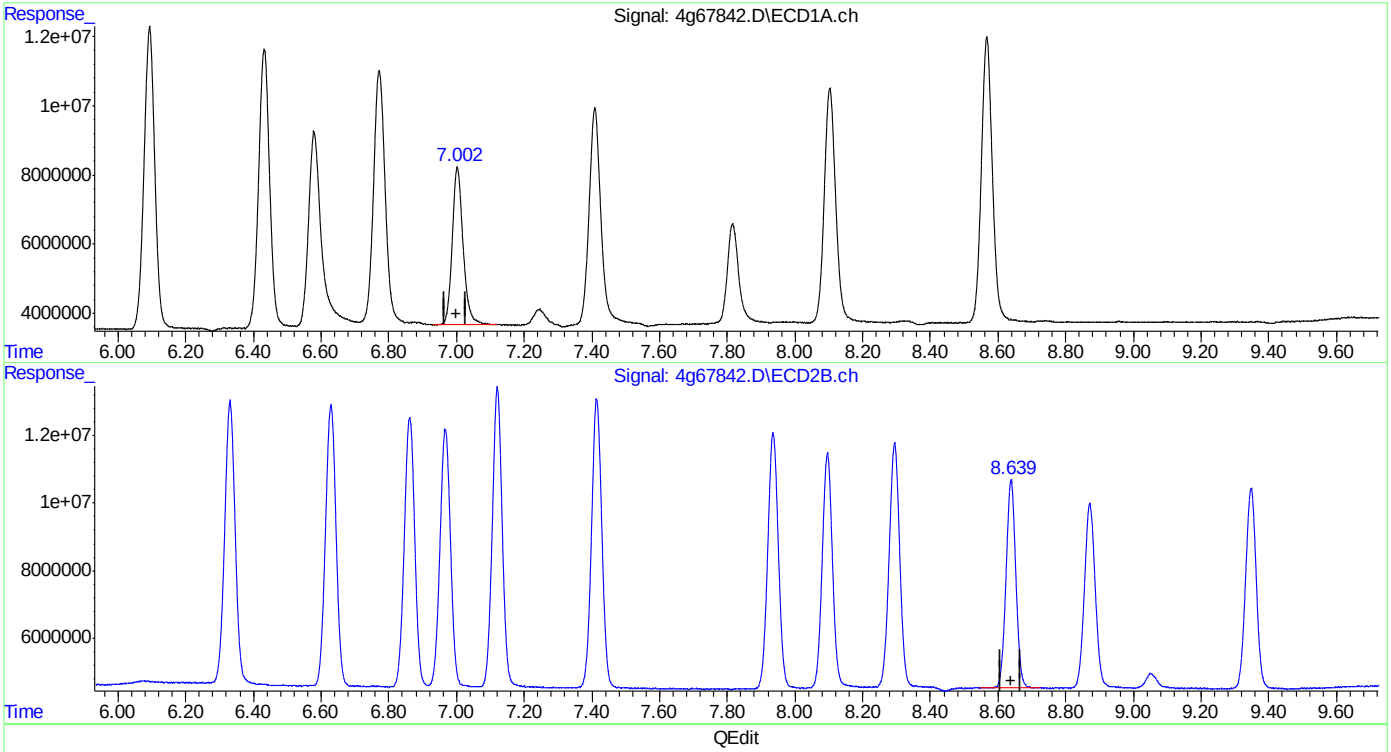
(+) = Expected Retention Time

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

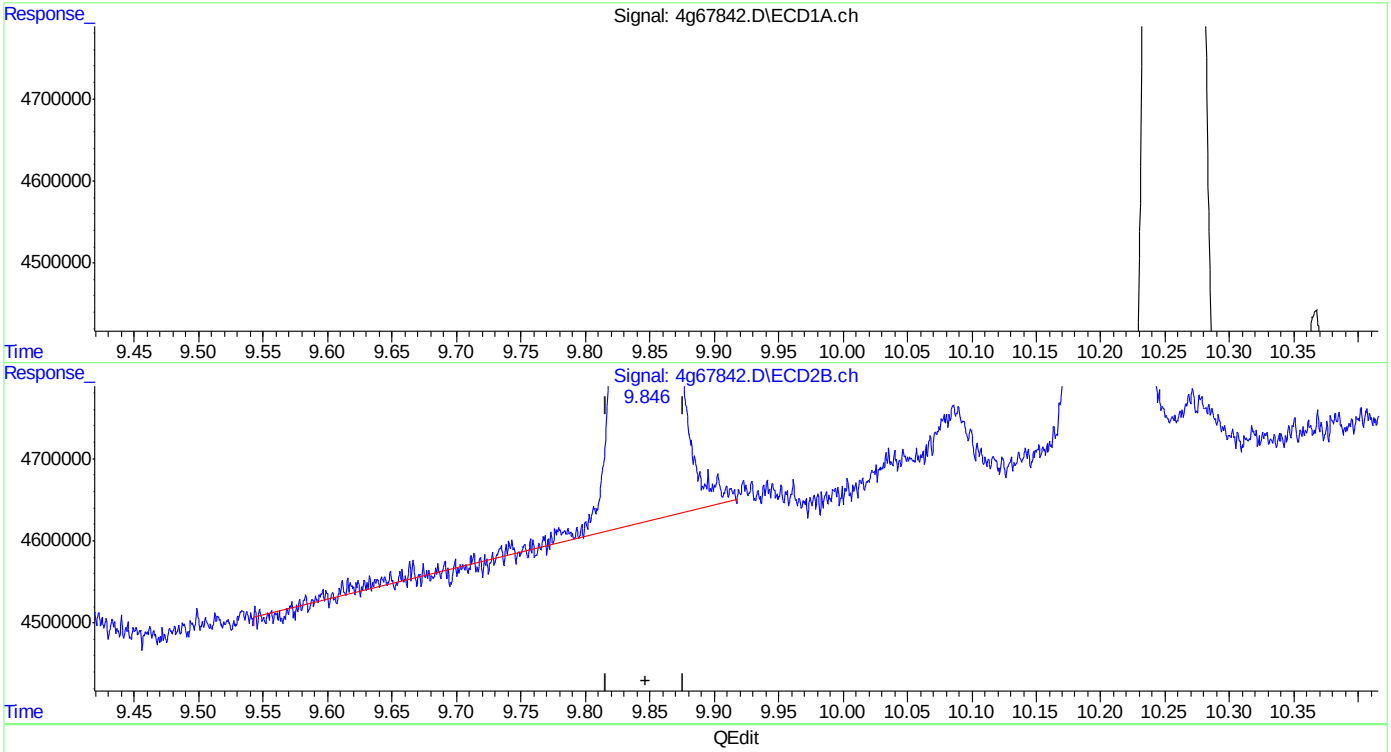
(+) = Expected Retention Time

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



(21) Methoxychlor (A)
7.816min 22.387 PPB
response 66800291

(21) Methoxychlor #2 (A)
9.847min 21.412 PPB
response 65994725

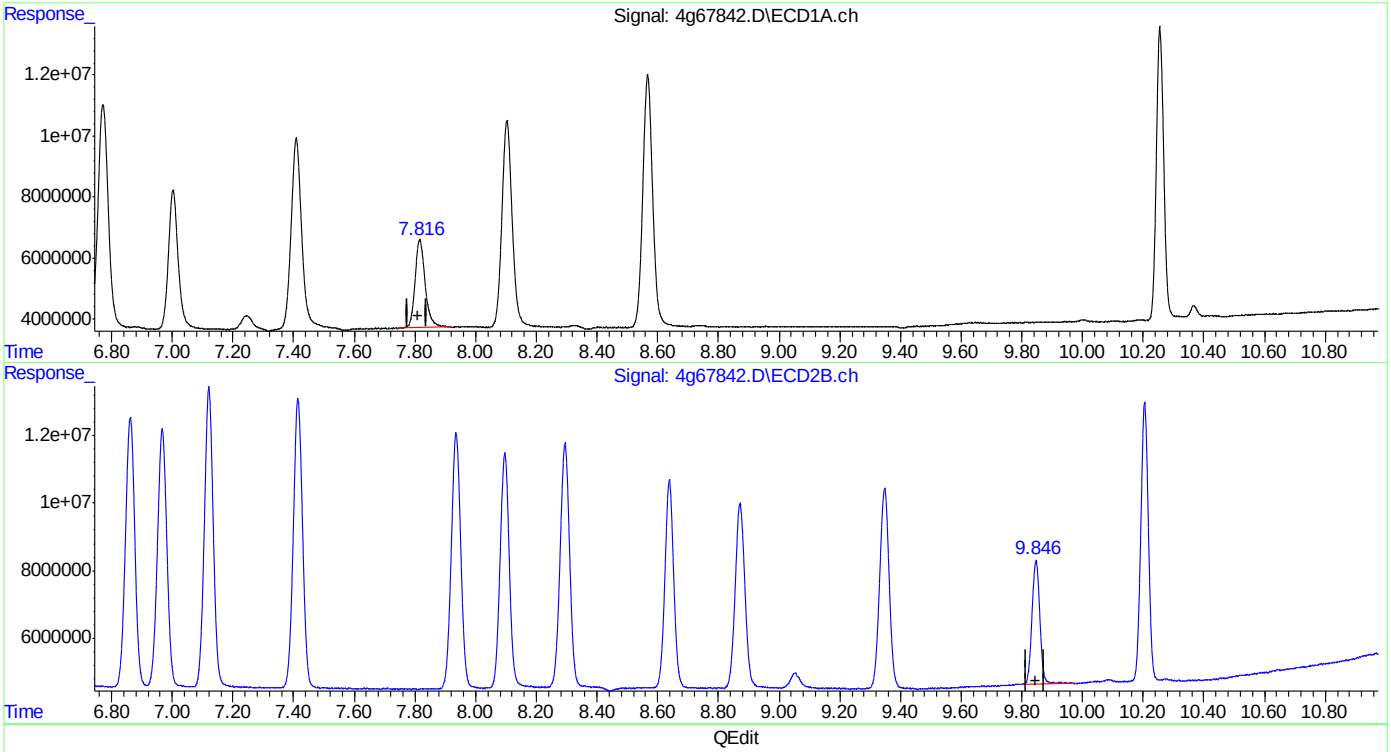
(+) = Expected Retention Time

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

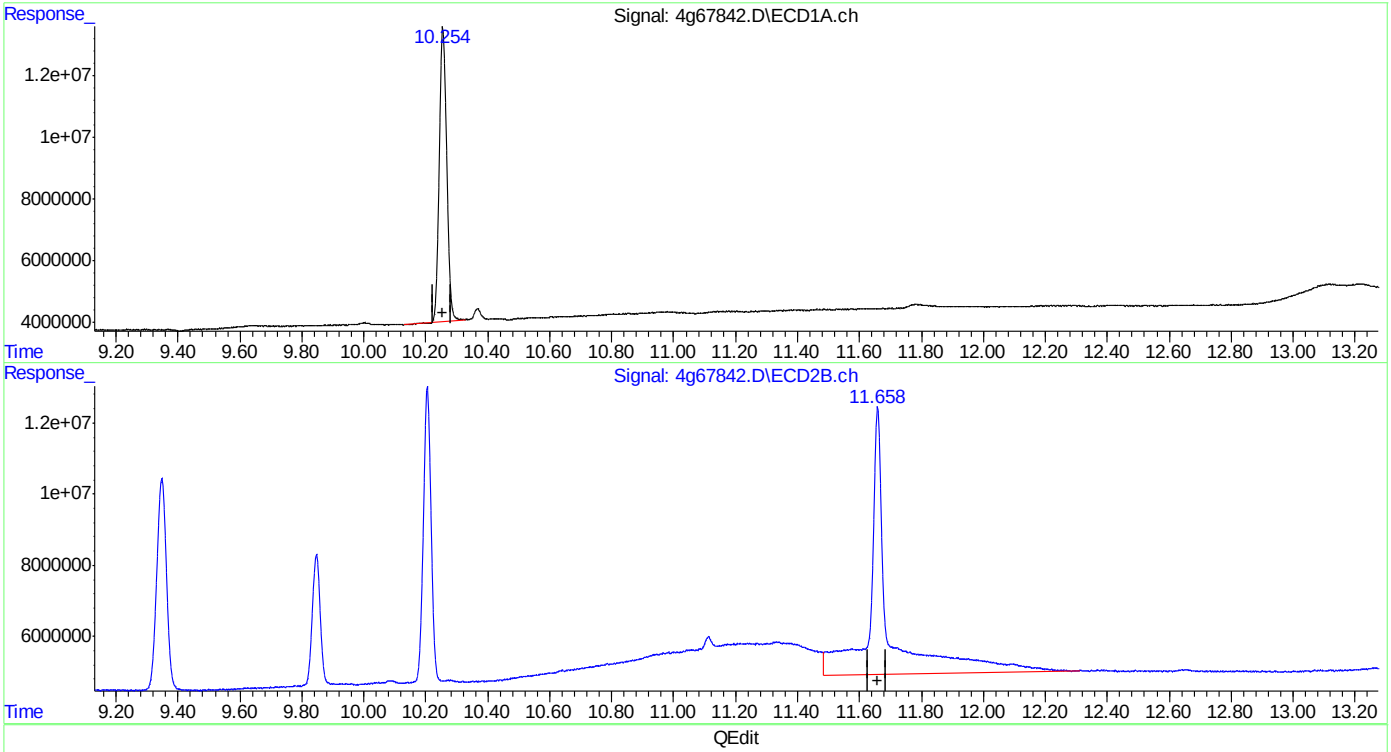
(+) = Expected Retention Time

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
```



(24) Decachlorobiphenyl (SA)
10.255min 21.851 PPB
response 159017875

(24) Decachlorobiphenyl #2 (SA)
11.659min 65.026 PPB
response 321299025

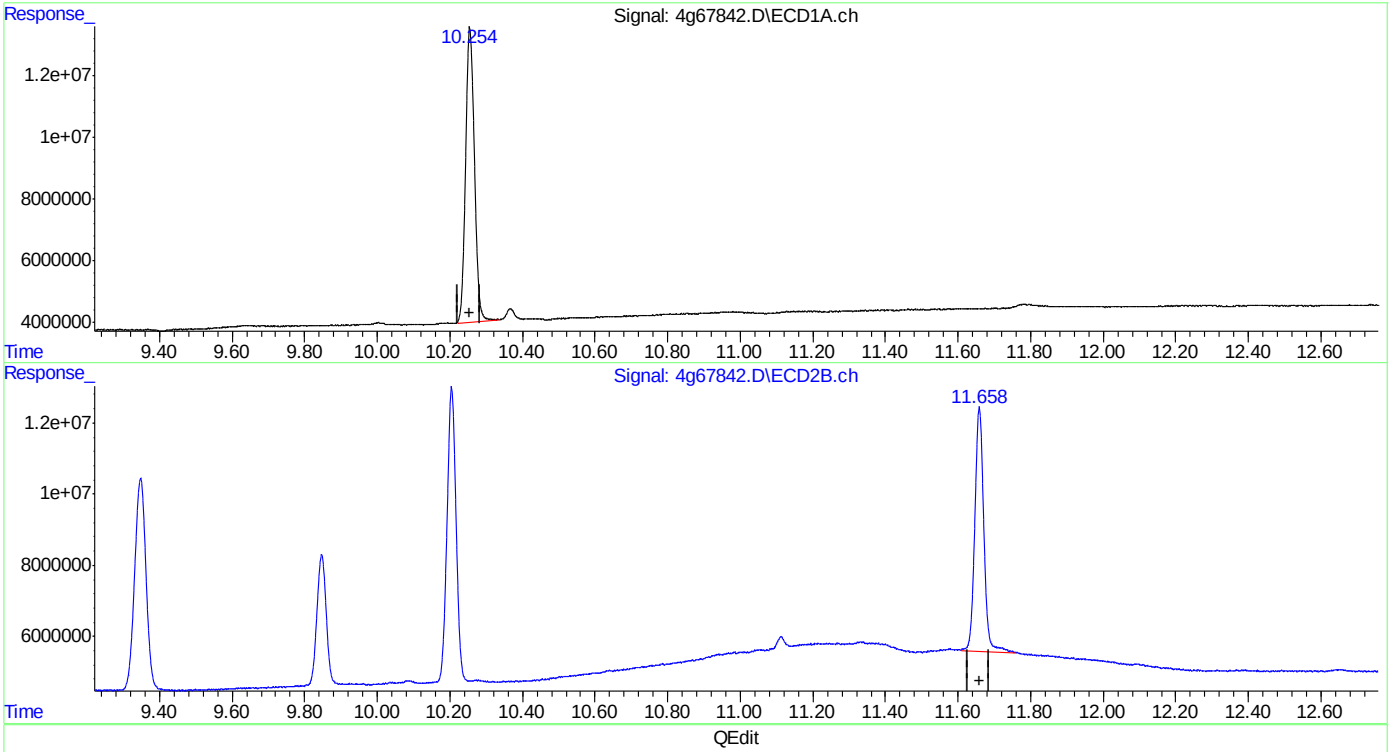
(+) = Expected Retention Time

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.

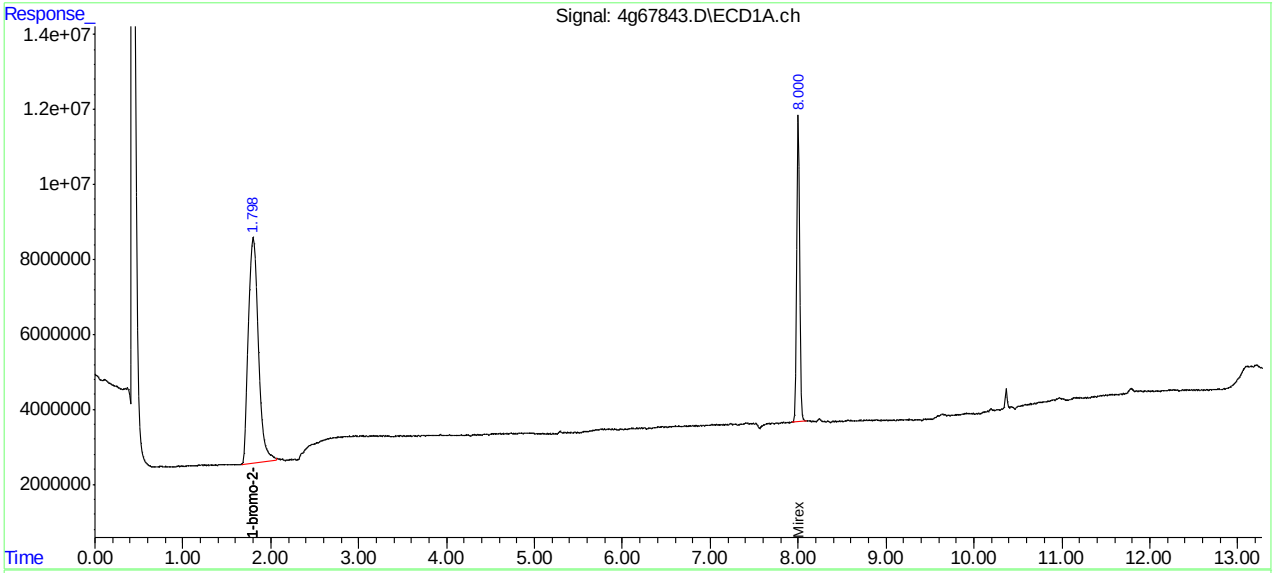
SGS ACCUTEST JC19473

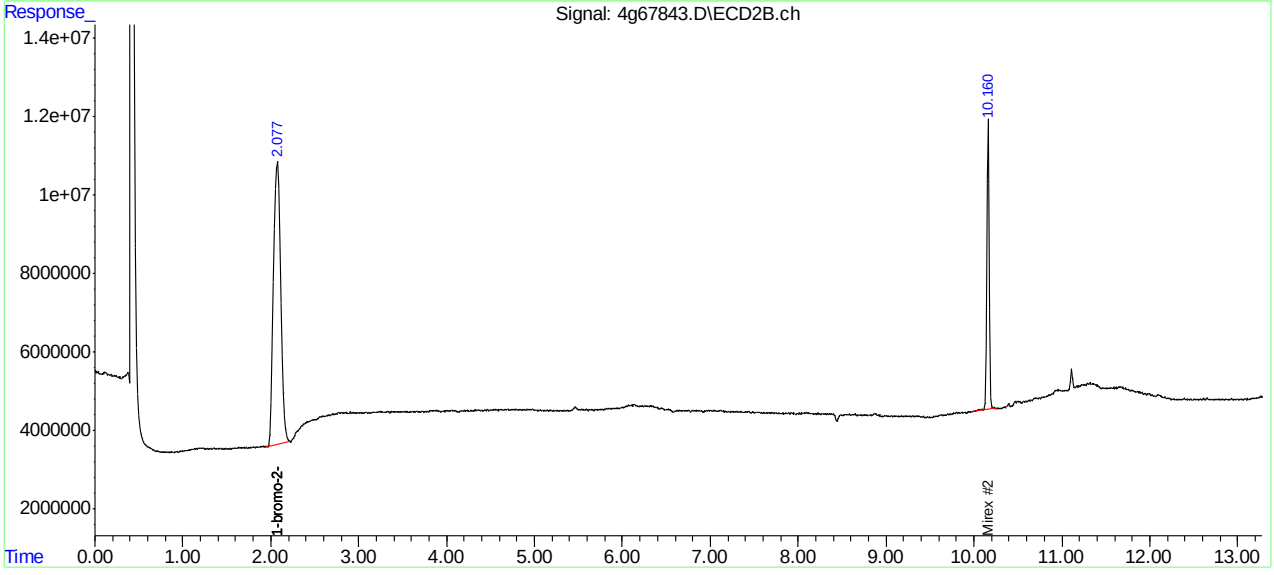
Quantitation Report (QT Reviewed)

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.

9.6.13

9

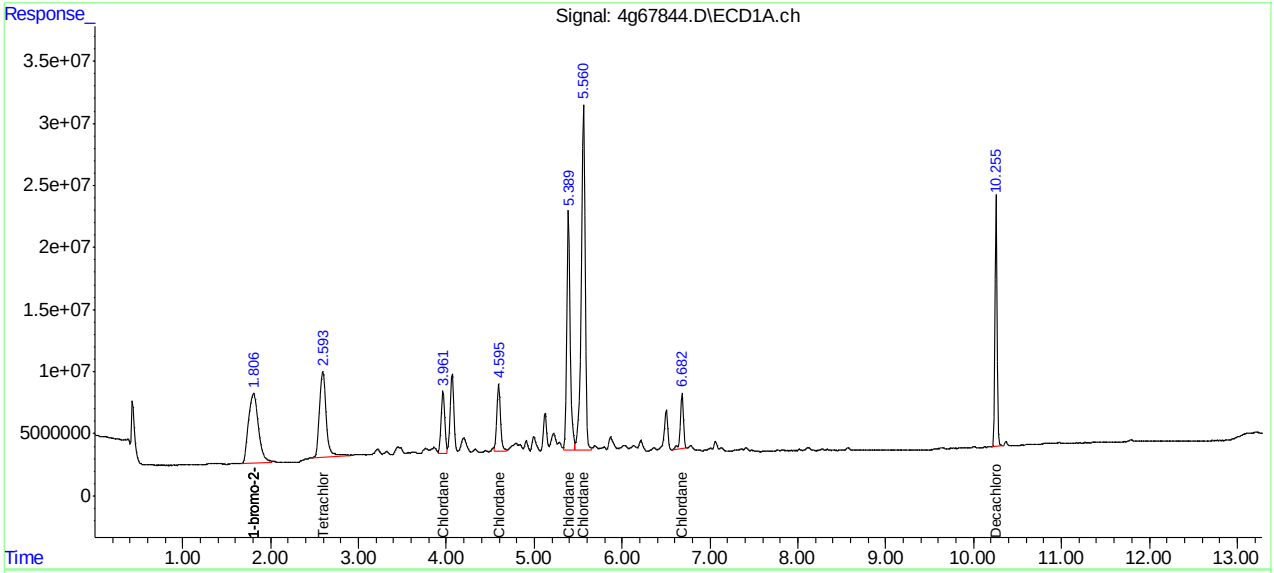
SGS ACCUTEST JC19473

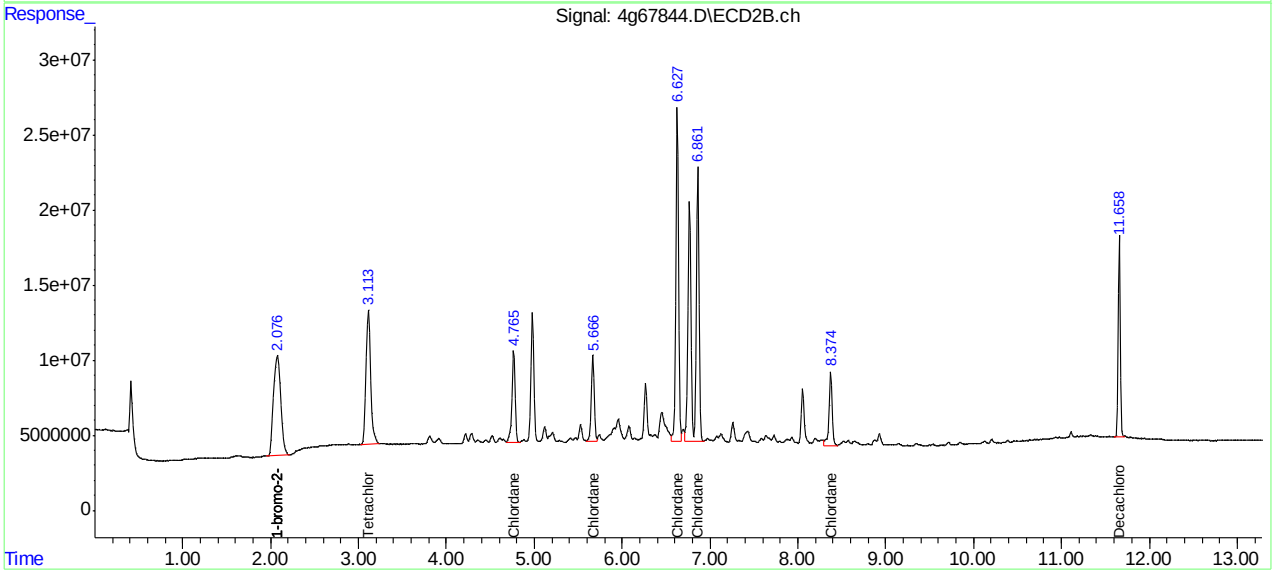
Quantitation Report (QT Reviewed)

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





SGS ACCUTEST JC19473

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

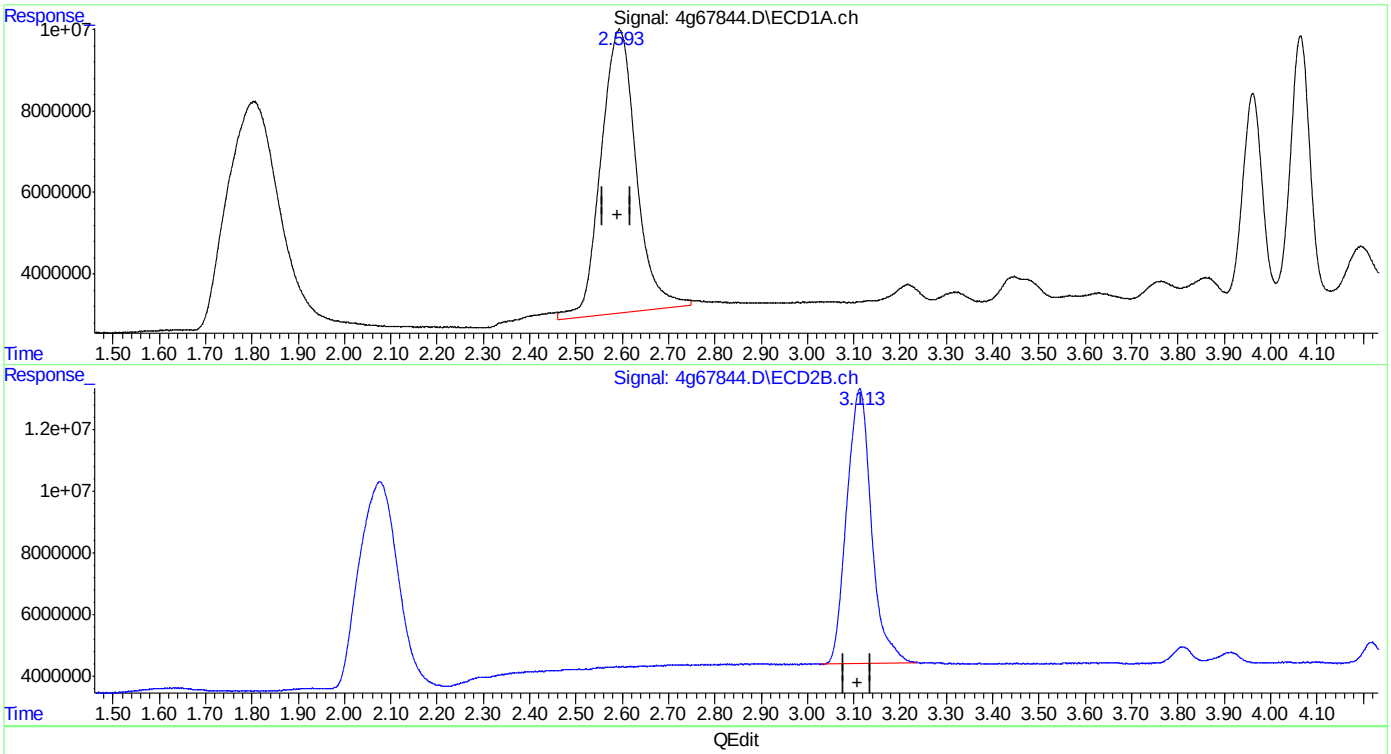
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
Chlordane-D		2	6.86	Split peak
Chlordane-E		2	8.37	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.26	Poor instrument integration

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



(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

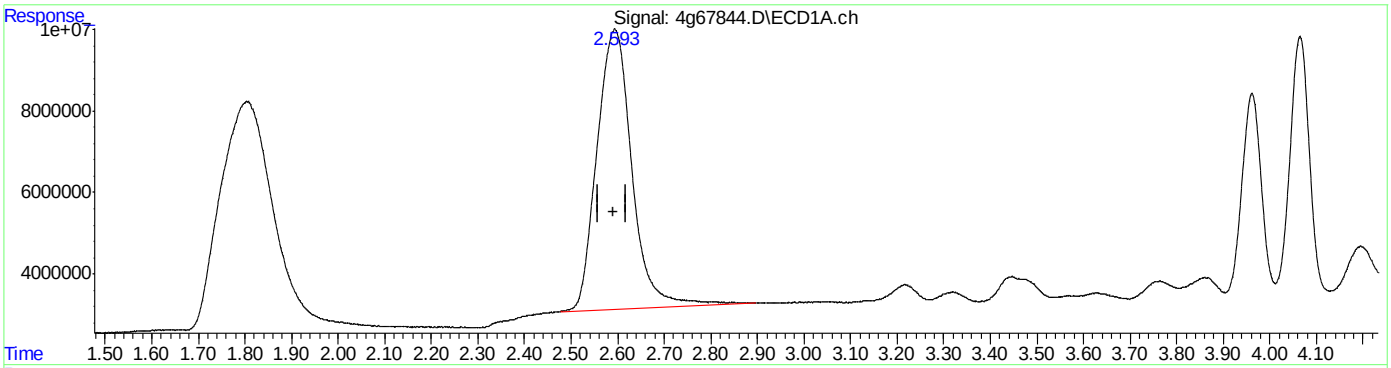
(+) = Expected Retention Time

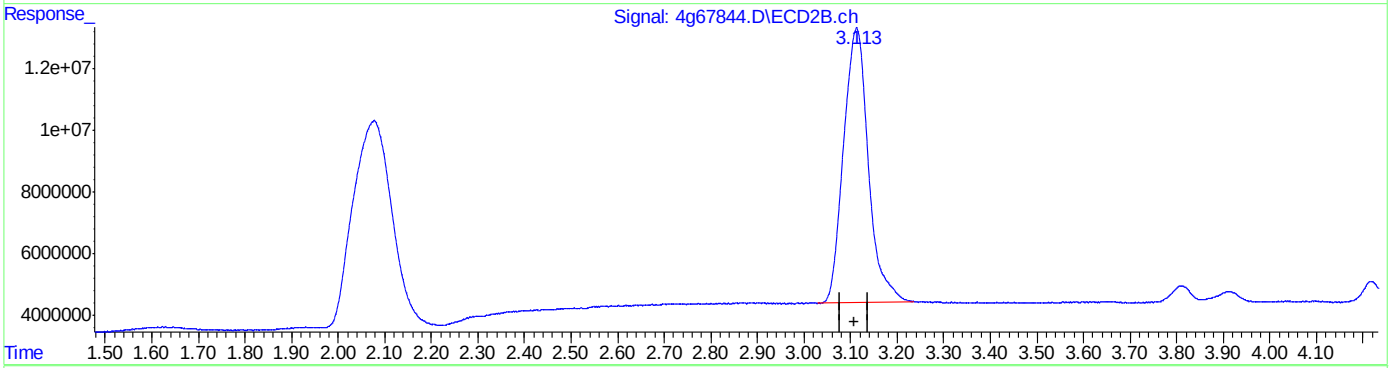
Quantitation Report (Qedit)

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

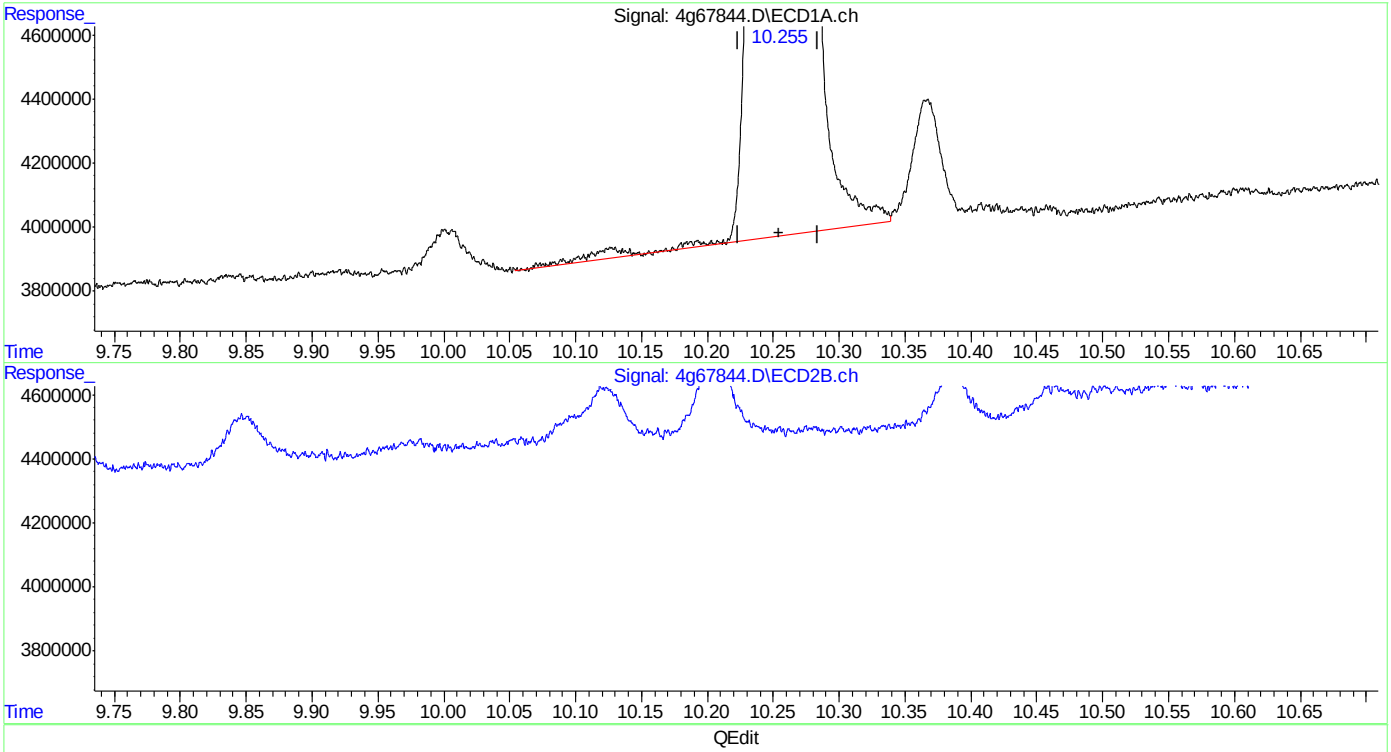
(+) = Expected Retention Time

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

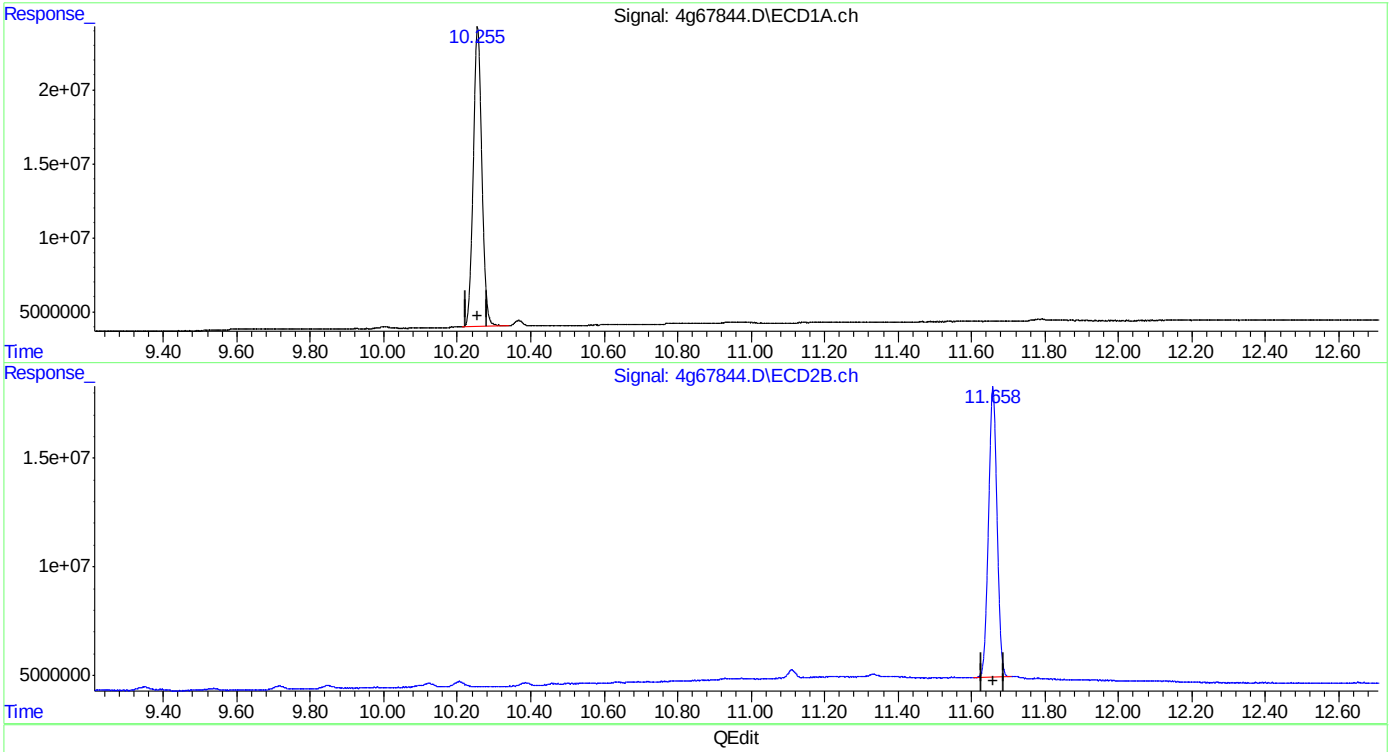
(+) = Expected Retention Time

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

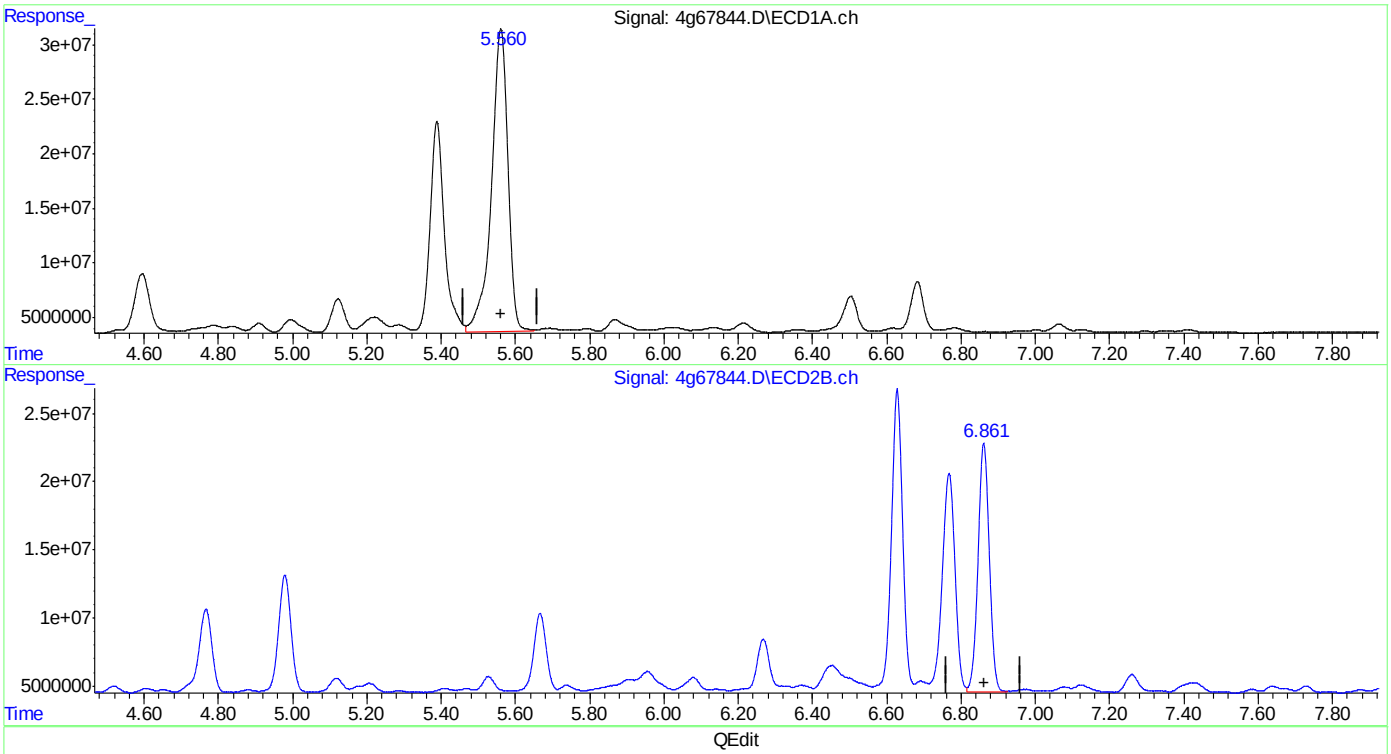
(+) = Expected Retention Time

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
```



QEdit

(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

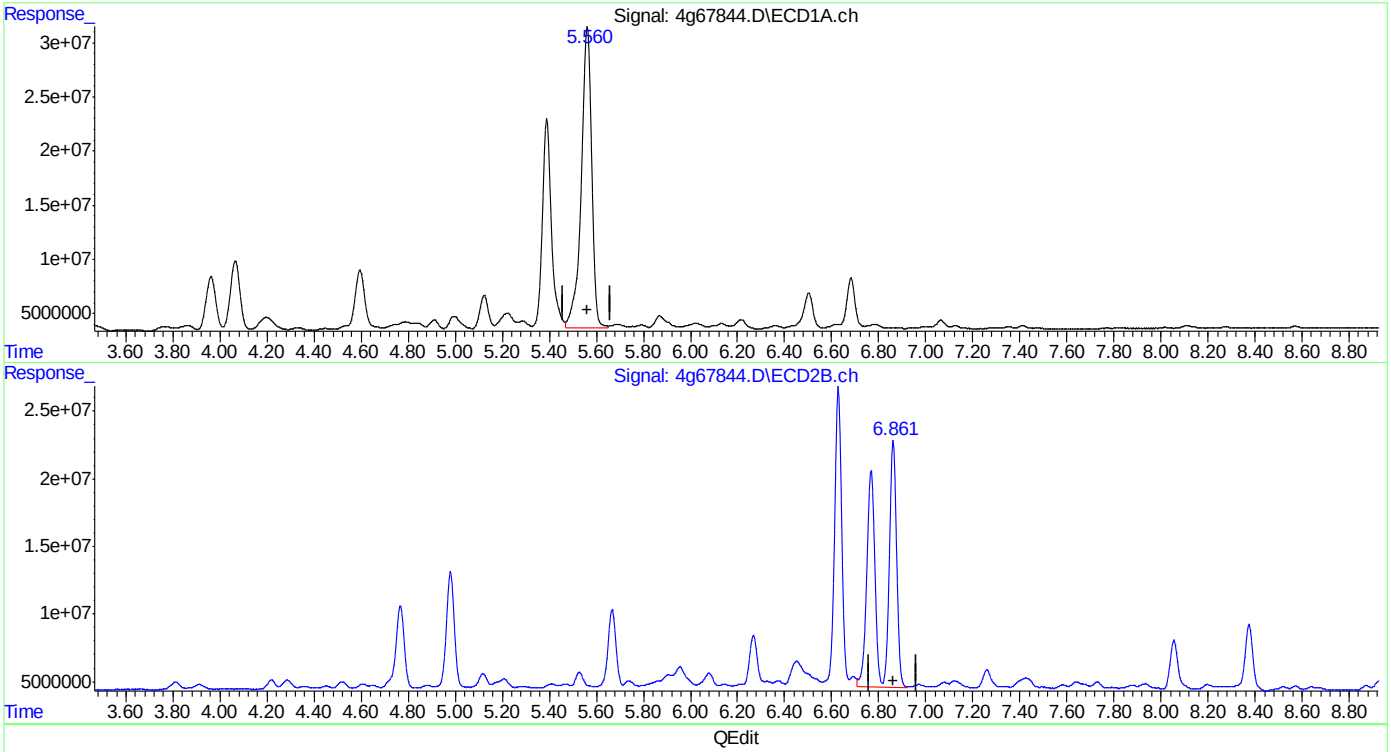
SGS ACCUTEST JC19473

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

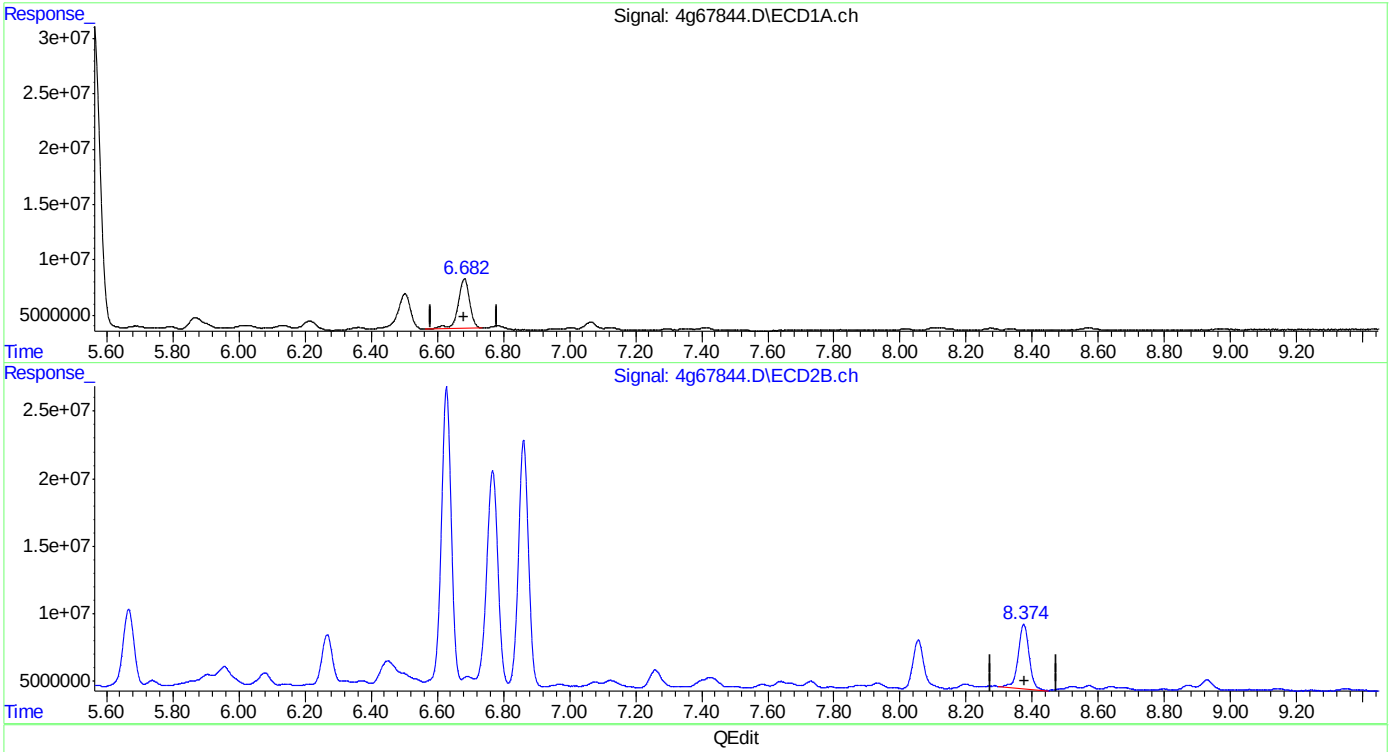
(+) = Expected Retention Time

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

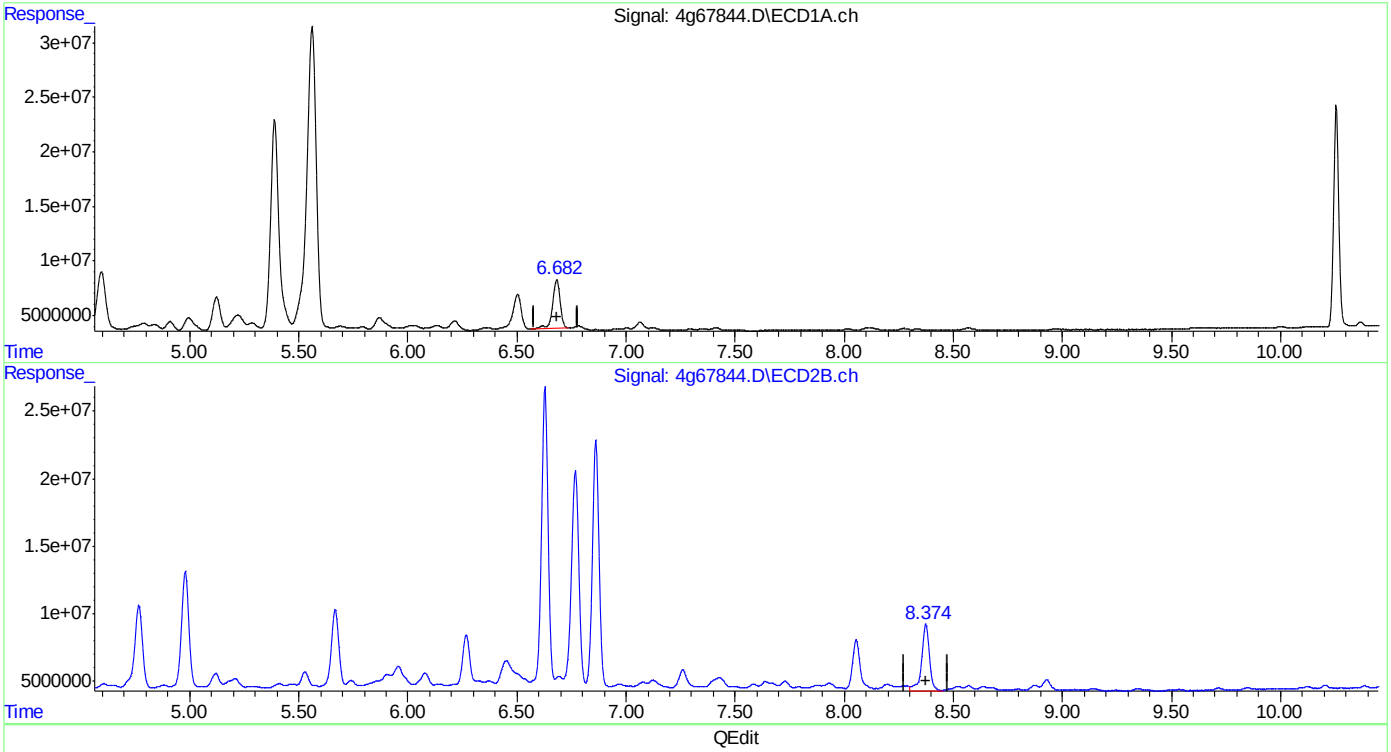
4PST1778.M Tue May 03 15:49:13 2016 RPT1

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.

9.6.14

9

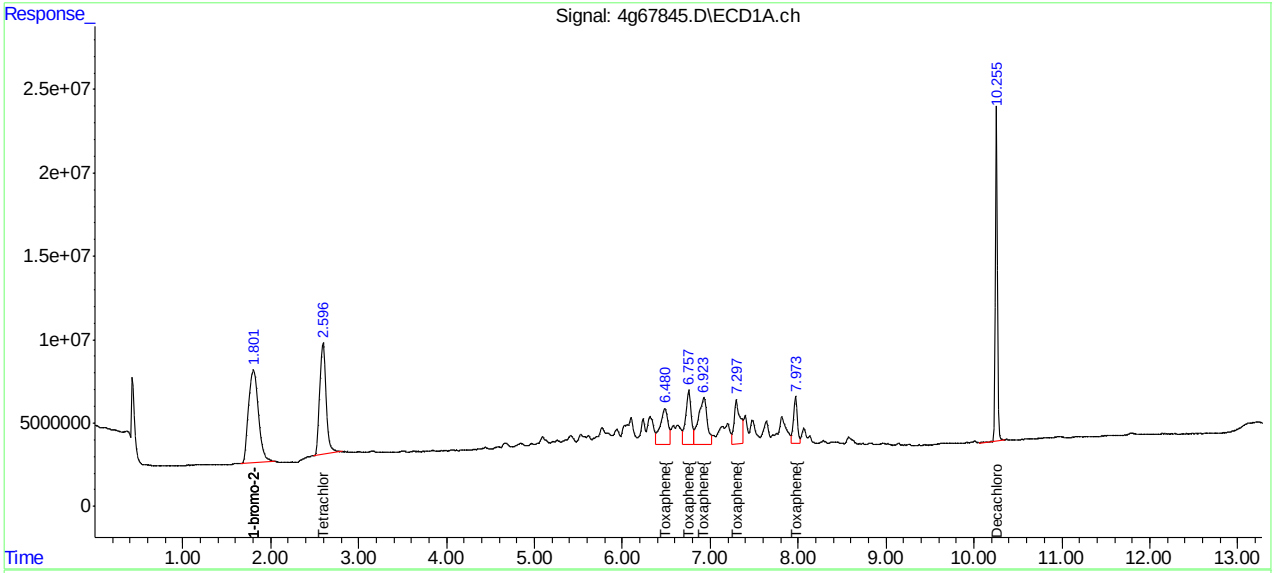
SGS ACCUTEST JC19473

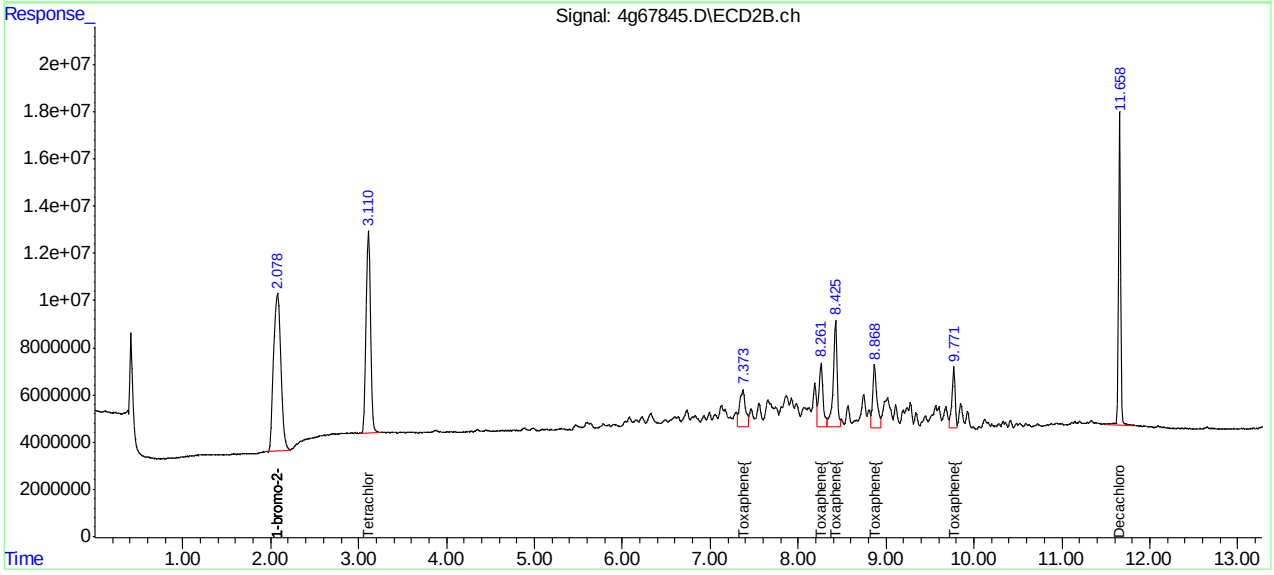
Quantitation Report (QT Reviewed)

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

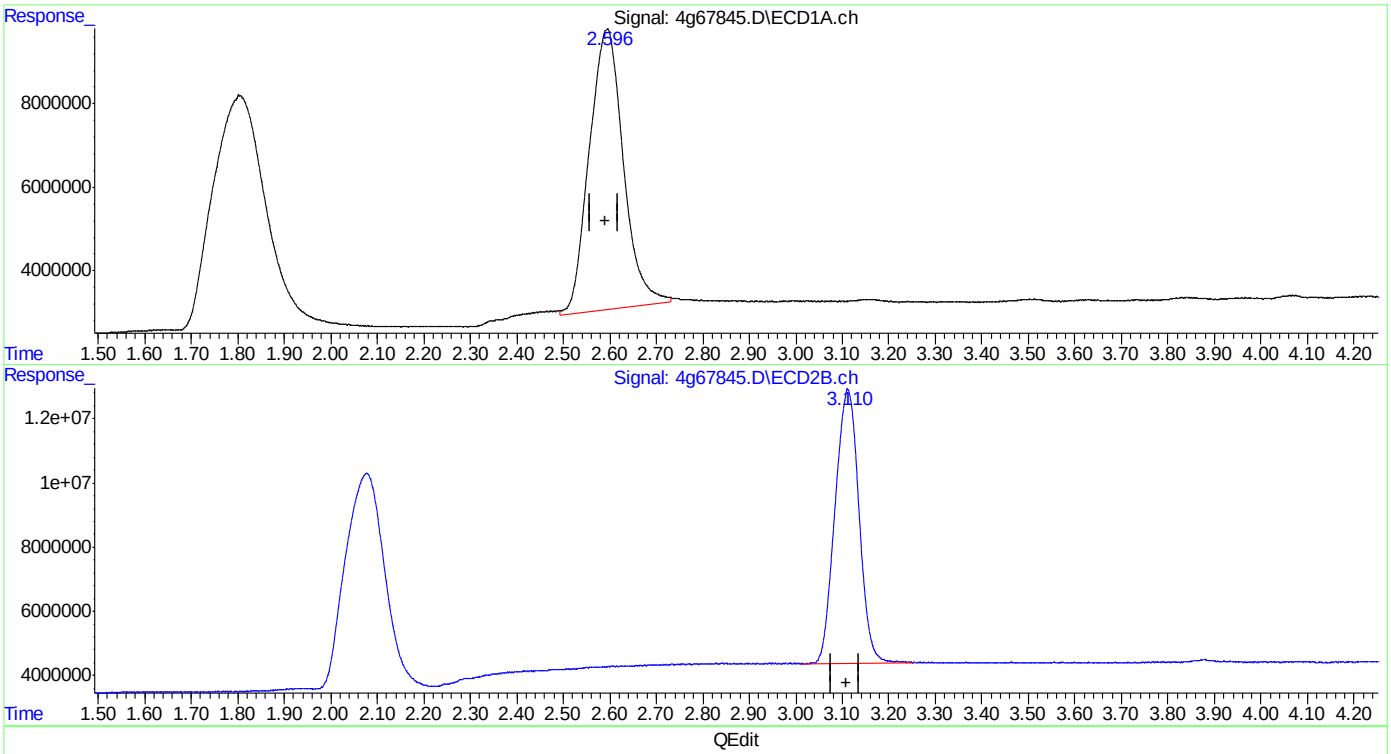
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.60	Poor instrument integration
Toxaphene-D		1	7.30	Split peak

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

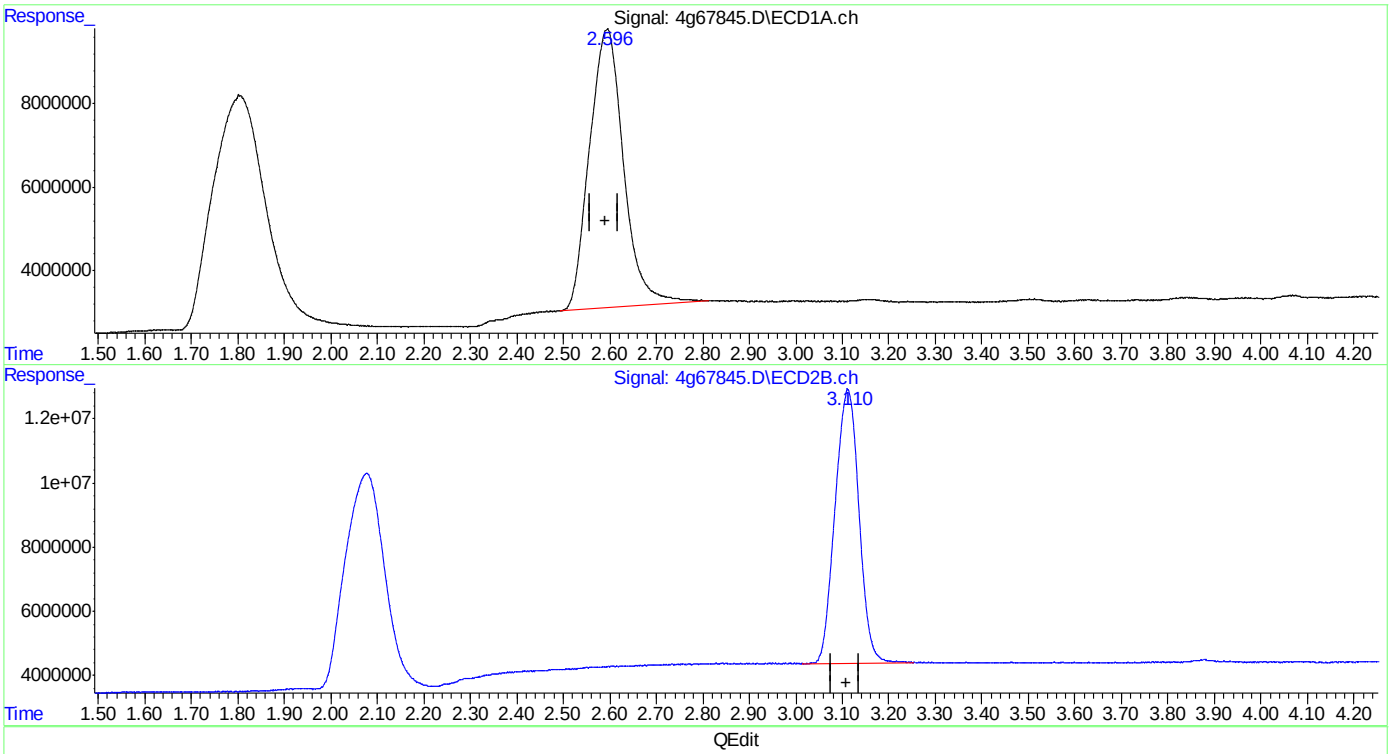
4PST1778.M Tue May 03 15:51:20 2016 RPT1

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

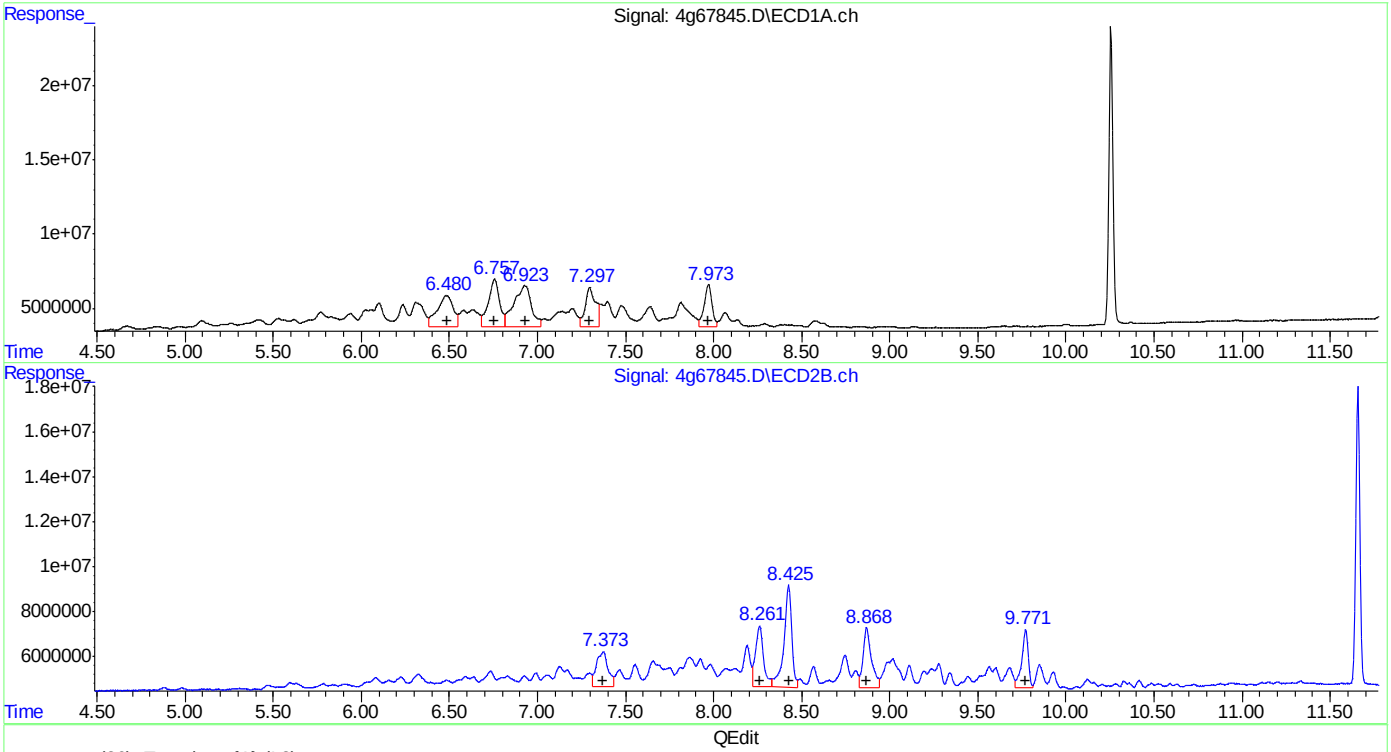
4PST1778.M Tue May 03 15:51:26 2016 RPT1

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



(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

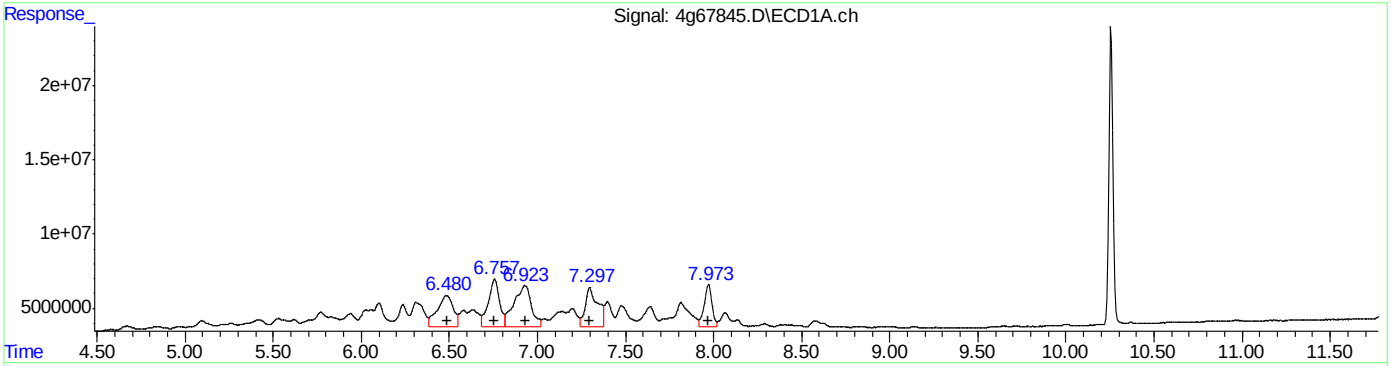
(+) = Expected Retention Time

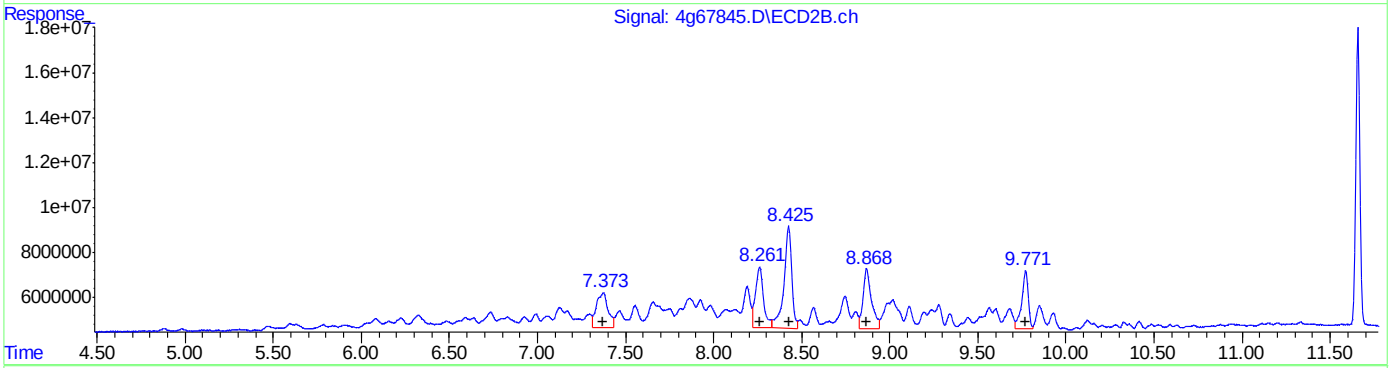
Quantitation Report (Qedit)

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

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

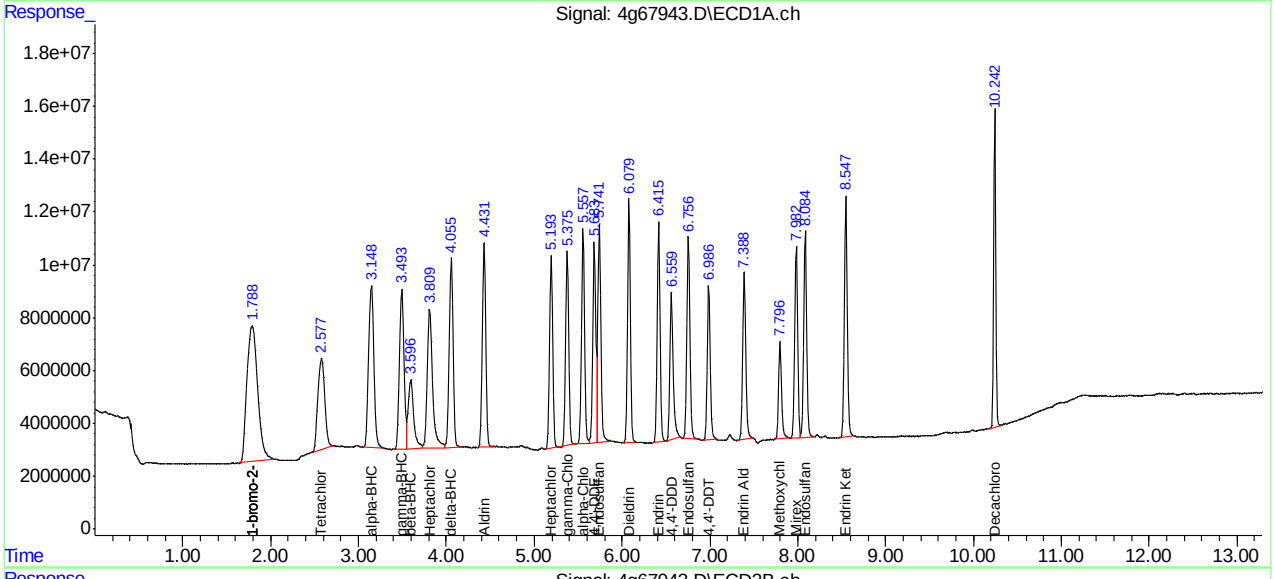
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

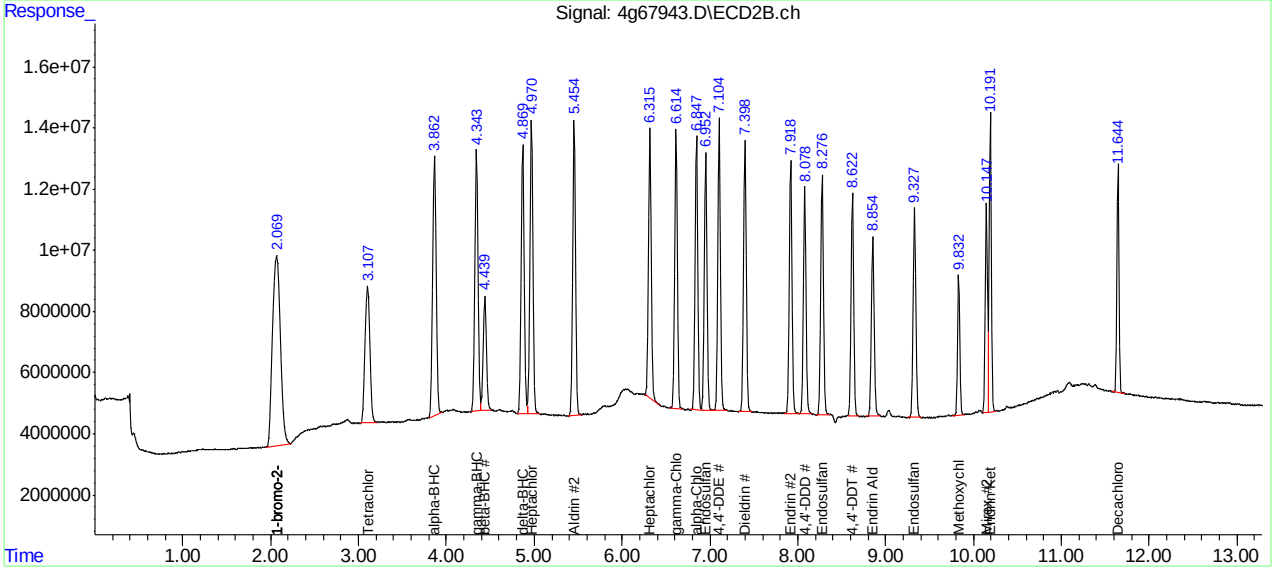
Quantitation Report (QT Reviewed)

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

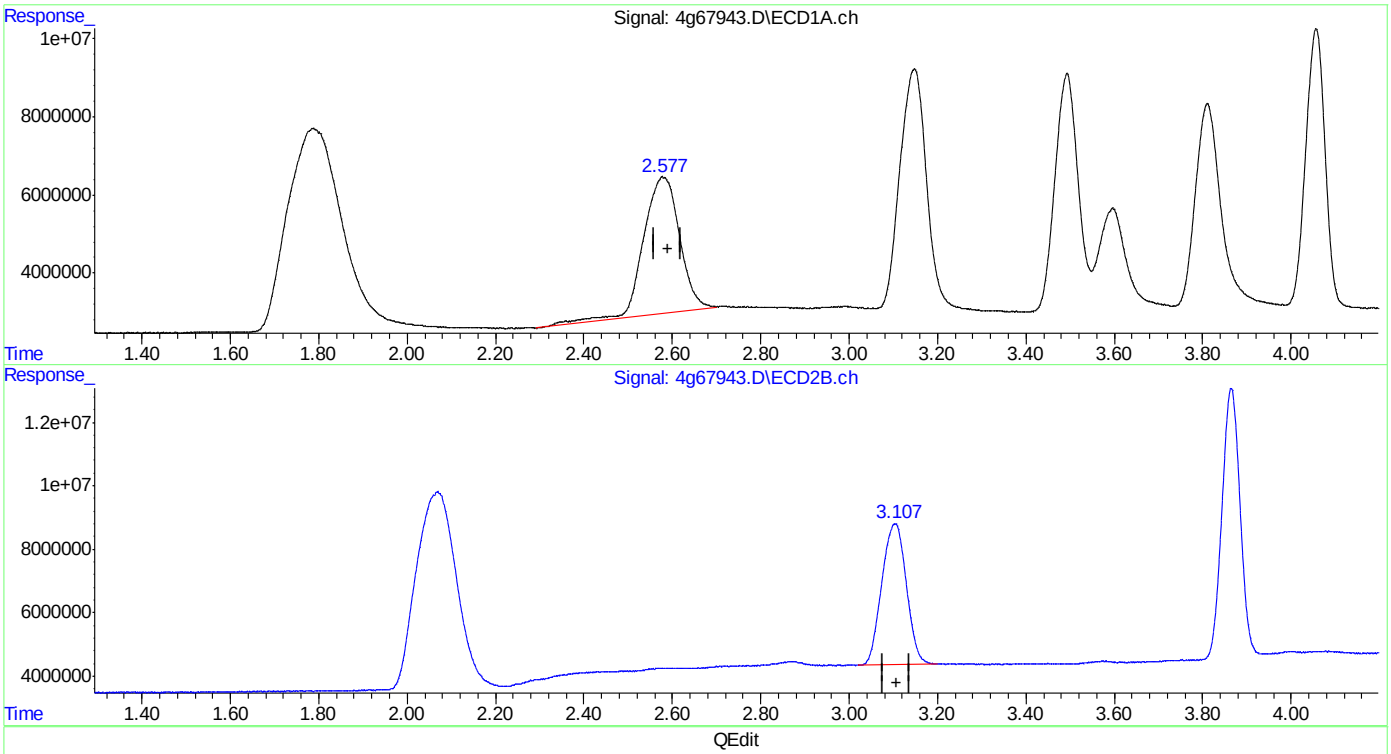
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.58	Poor instrument integration
4,4'-DDT	50-29-3	2	8.62	Poor instrument integration

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

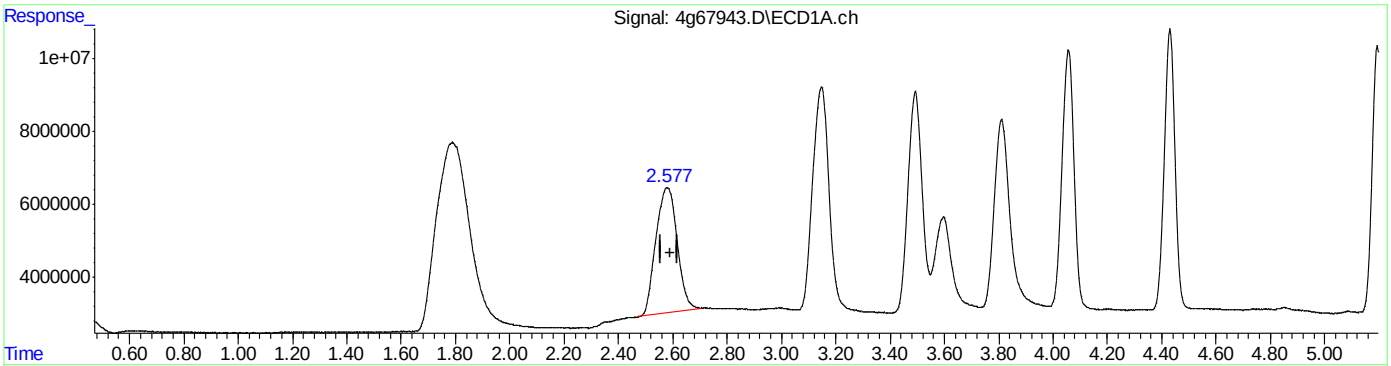
(+) = Expected Retention Time
4PST1778.M Fri May 06 08:12:54 2016 RPT1

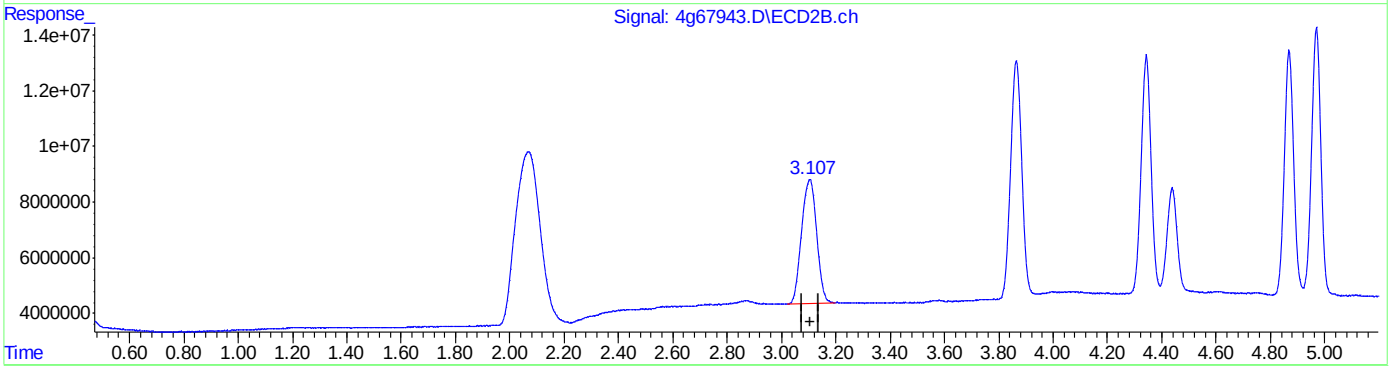
Quantitation Report (Qedit)

```
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

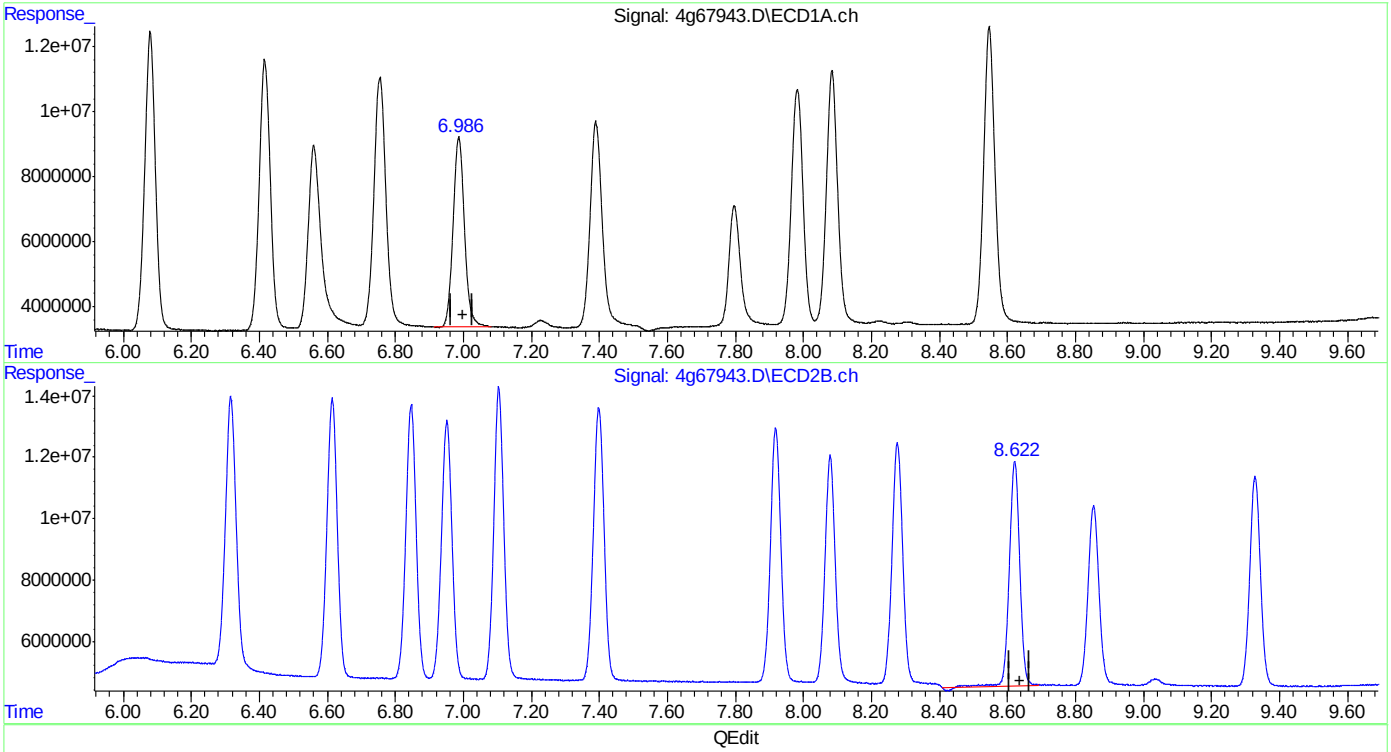
4PST1778.M Fri May 06 08:12:59 2016 RPT1

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

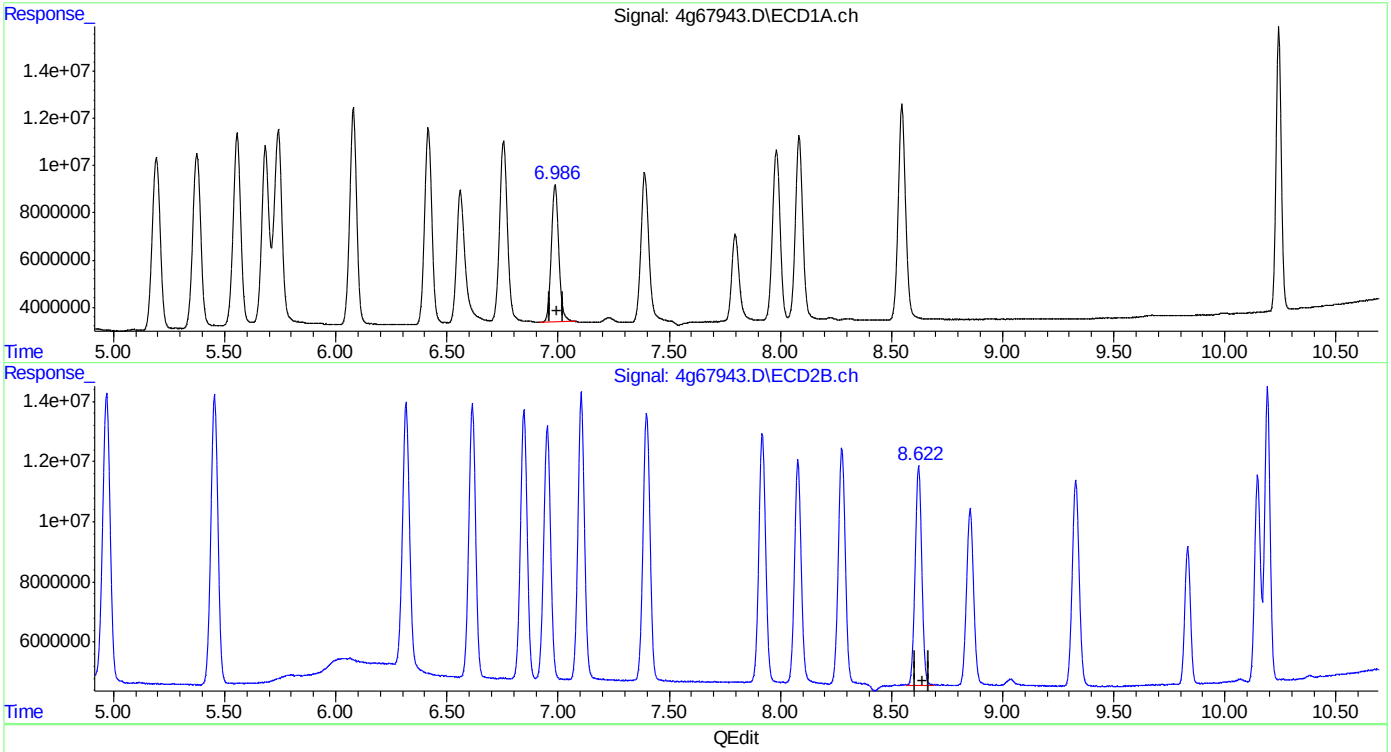
(+) = Expected Retention Time

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.

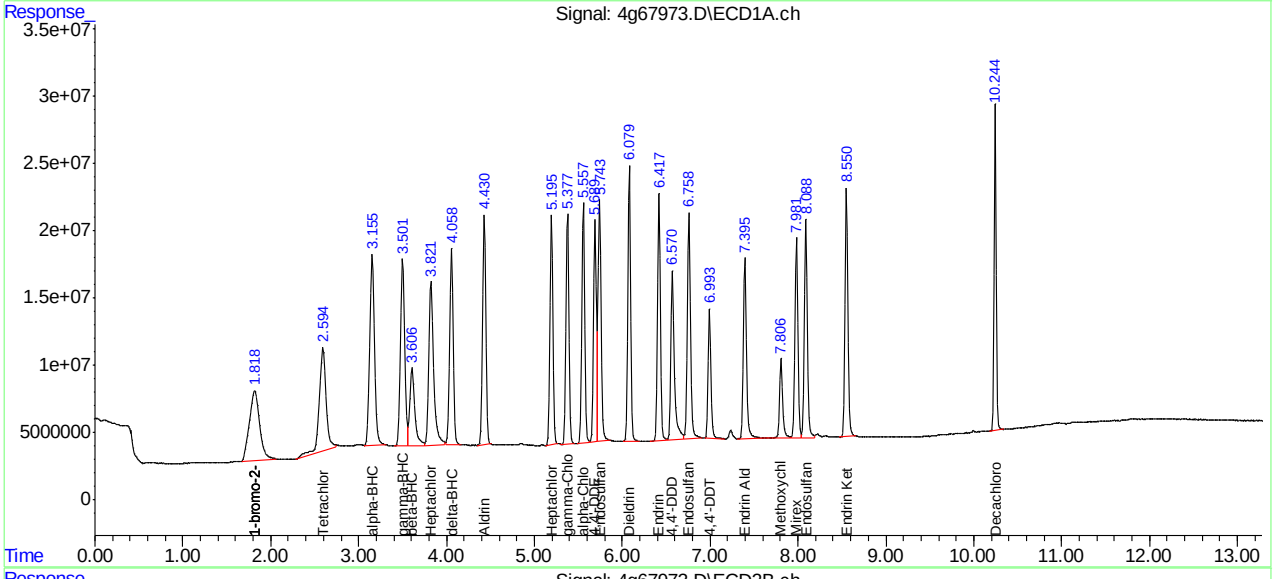
SGS ACCUTEST JC19473

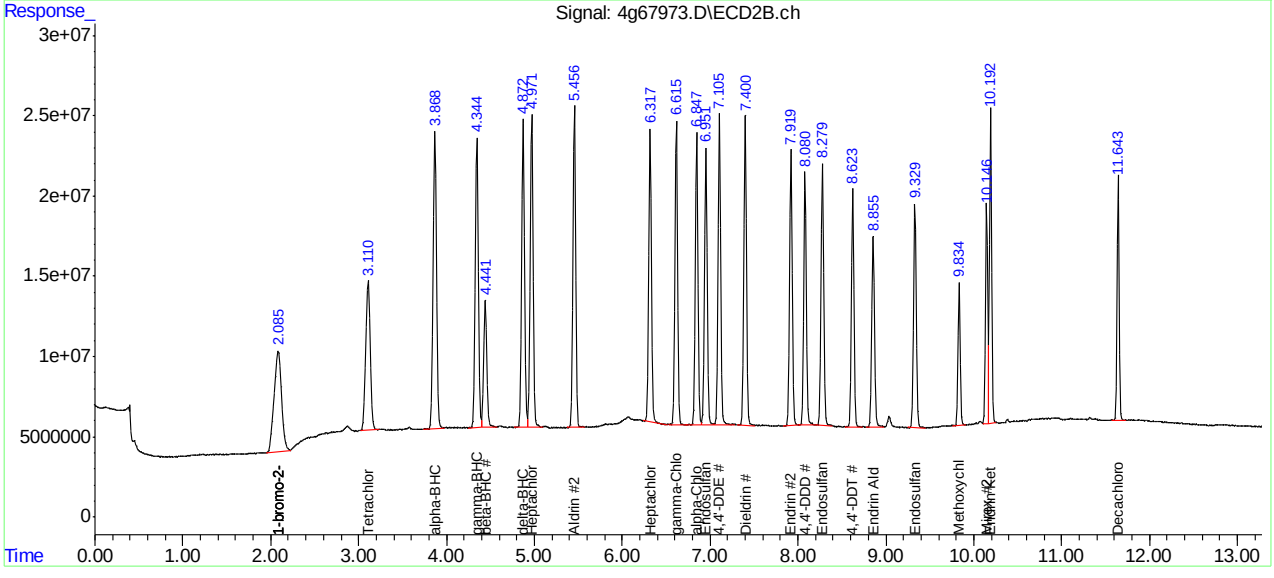
Quantitation Report (QT Reviewed)

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

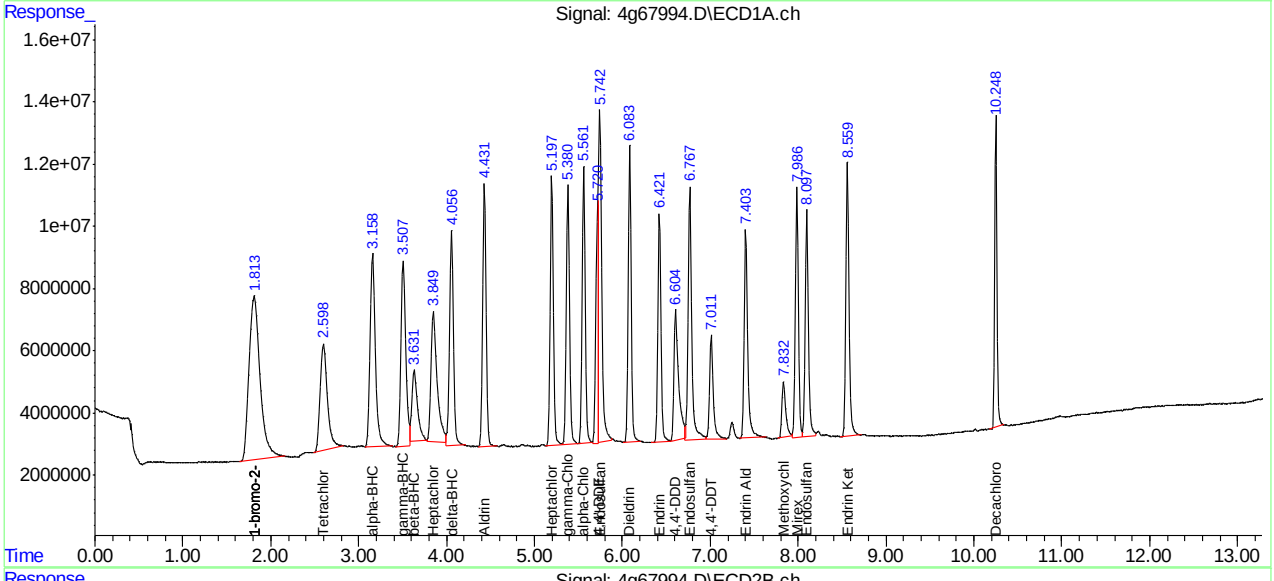
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

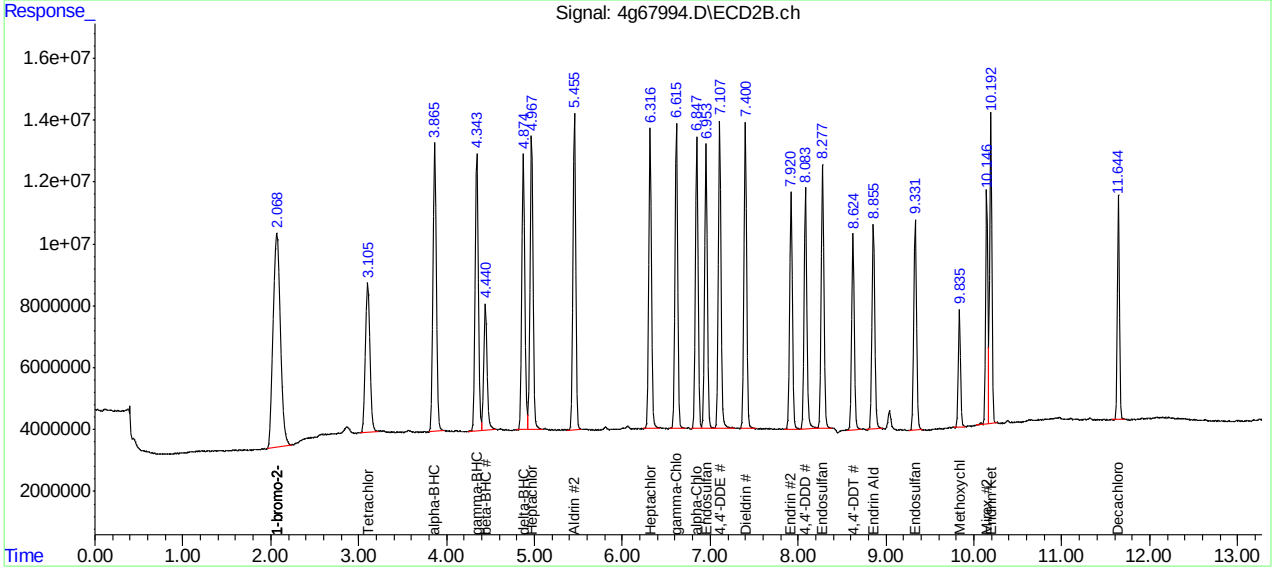
Quantitation Report (QT Reviewed)

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

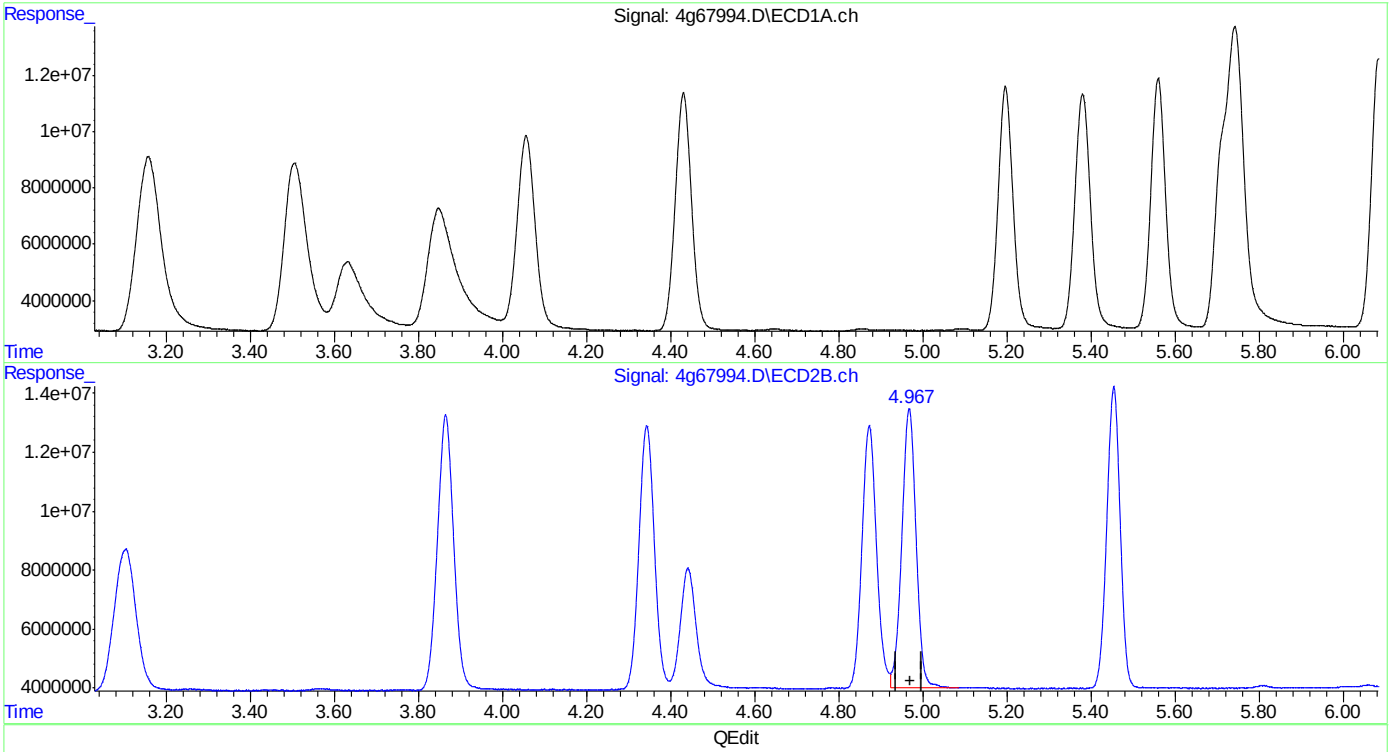
Parameter	CAS	Sig#	R.T. (min.)	Reason
beta-BHC	319-85-7	1	3.63	Poor instrument integration
Heptachlor	76-44-8	1	3.85	Poor instrument integration
4,4'-DDE	72-55-9	1	5.72	Poor instrument integration
Endosulfan-I	959-98-8	1	5.74	Poor instrument integration
4,4'-DDD	72-54-8	1	6.60	Poor instrument integration
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



QEdit

(5) Heptachlor (MA)
0.000min 0.000 PPB
response 0

(5) Heptachlor #2 (MA)
4.969min 23.702 PPB
response 224030055

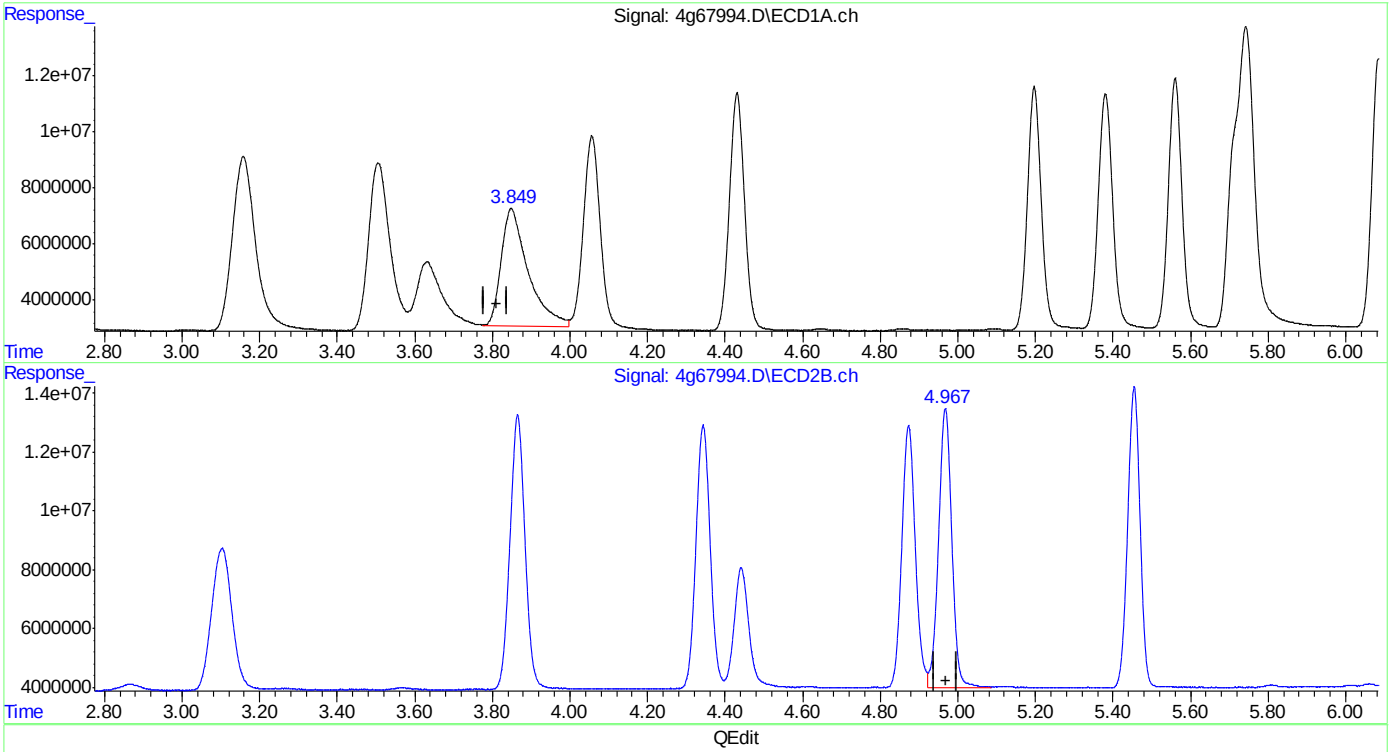
(+) = Expected Retention Time

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



QEdit

(5) Heptachlor (MA)
3.849min 22.835 PPB m
response 202734368

(5) Heptachlor #2 (MA)
4.969min 23.702 PPB
response 224030055

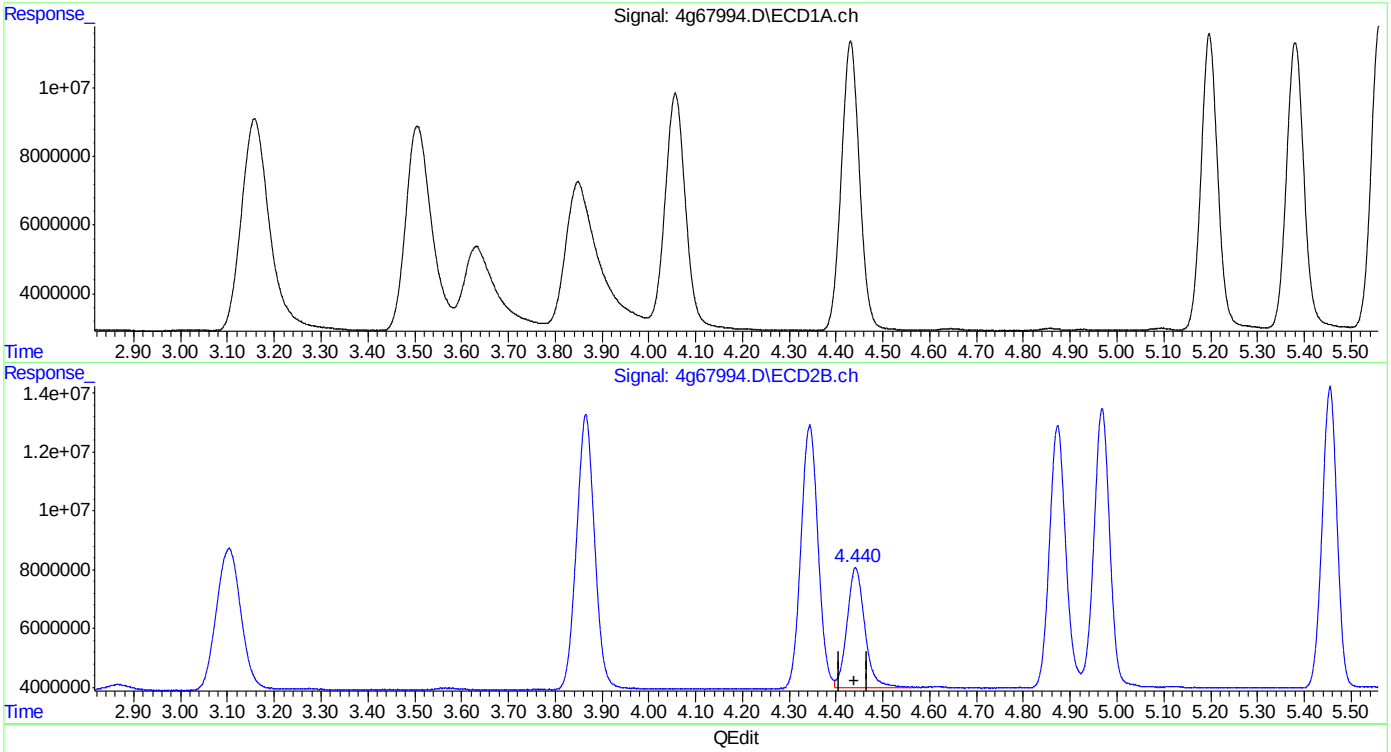
(+) = Expected Retention Time

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



QEdit

(6) beta-BHC (B)
0.000min 0.000 PPB
response 0

(6) beta-BHC #2 (B)
4.441min 26.004 PPB
response 108043261

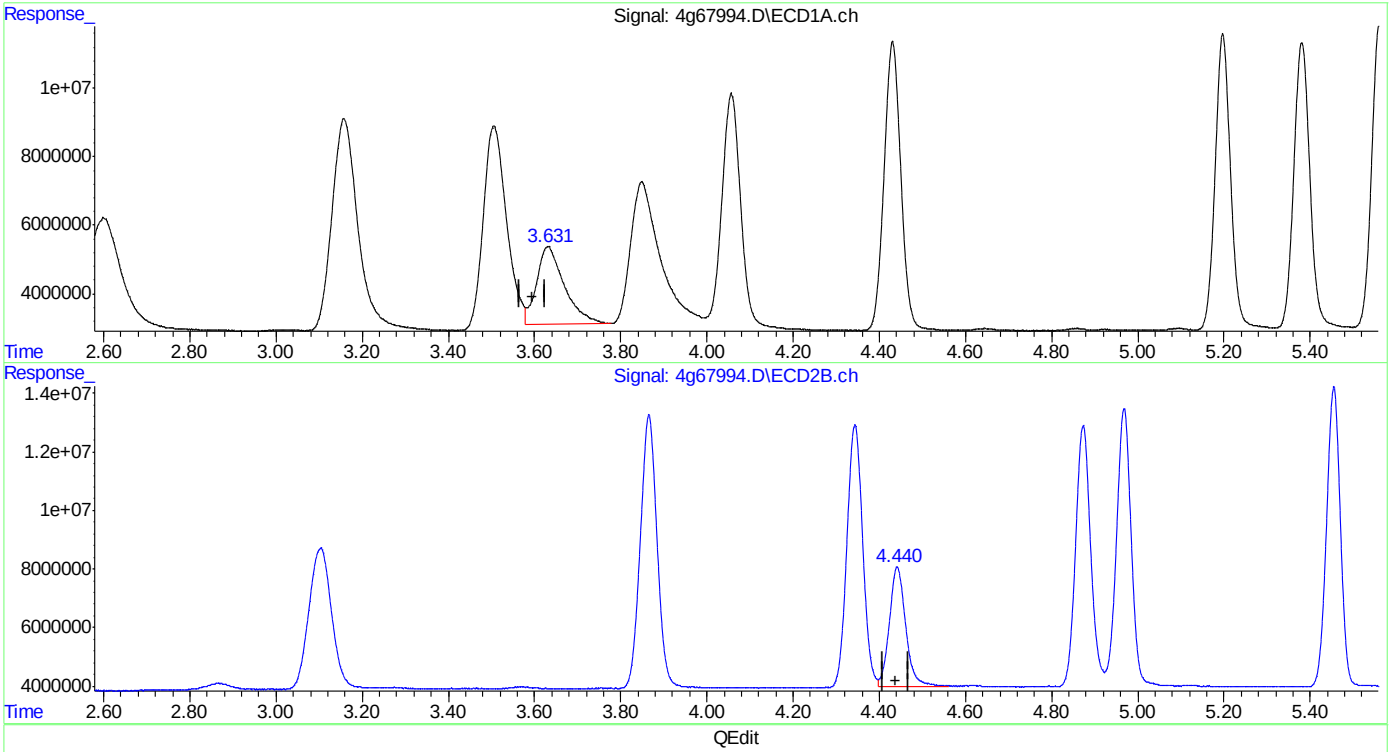
(+) = Expected Retention Time
4PST1778.M Sat May 07 14:30:54 2016 RPT1 Page: 1

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

(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

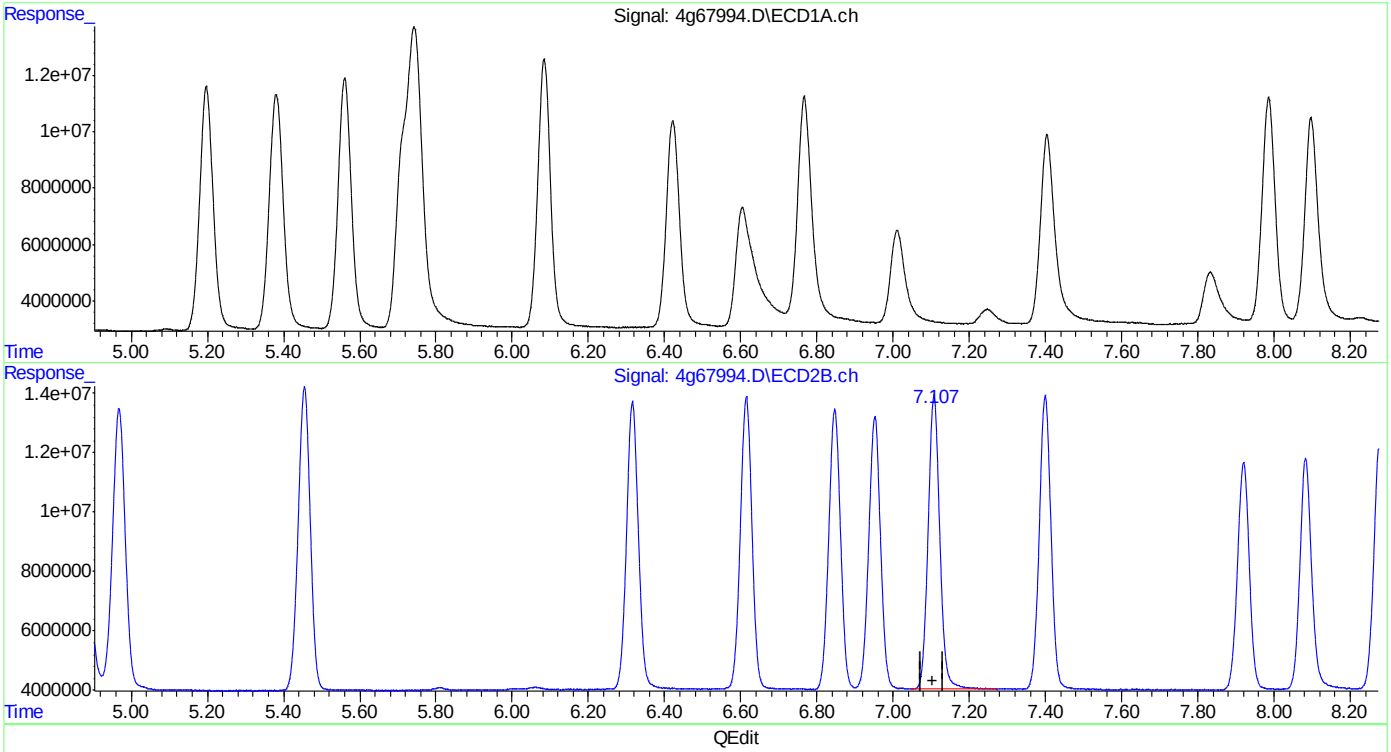
SGS ACCUTEST JC19473

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

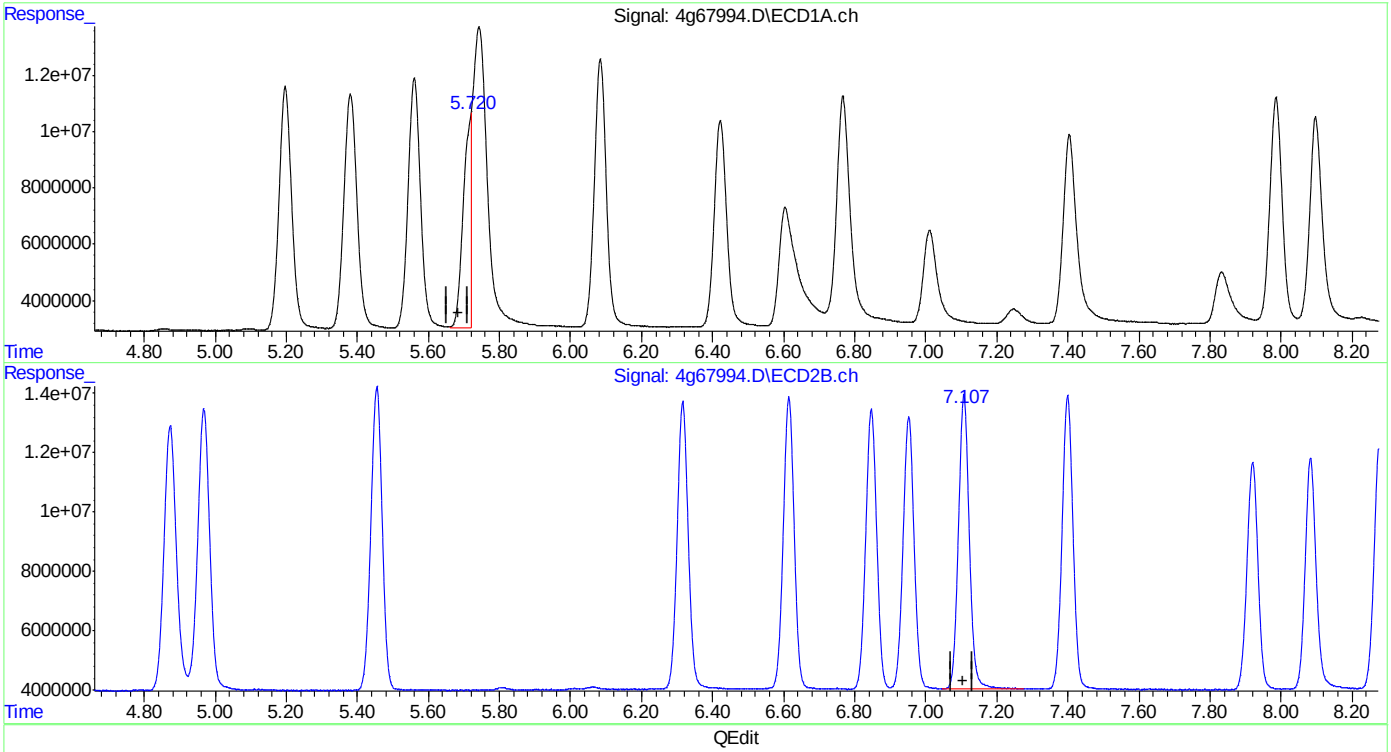
(+) = Expected Retention Time
4PST1778.M Sat May 07 14:31:12 2016 RPT1

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

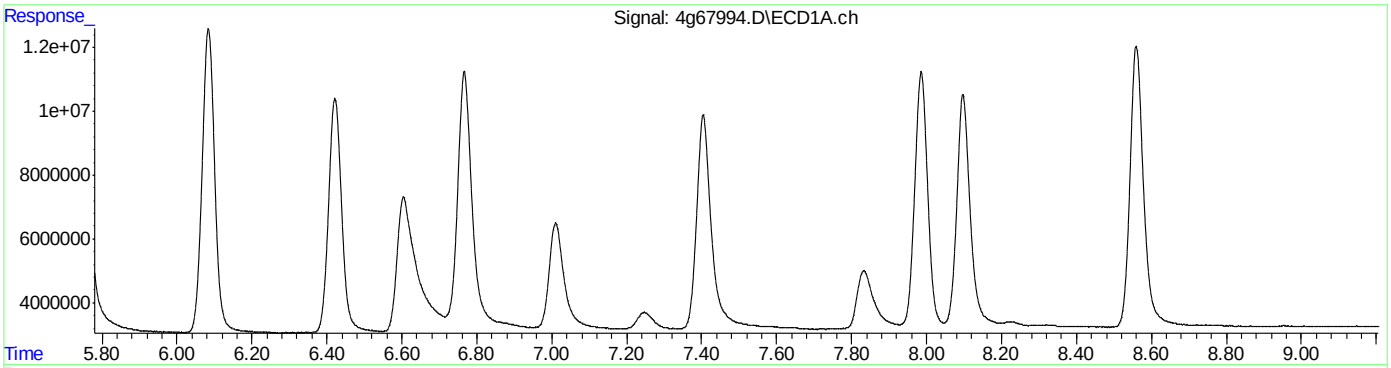
(+) = Expected Retention Time

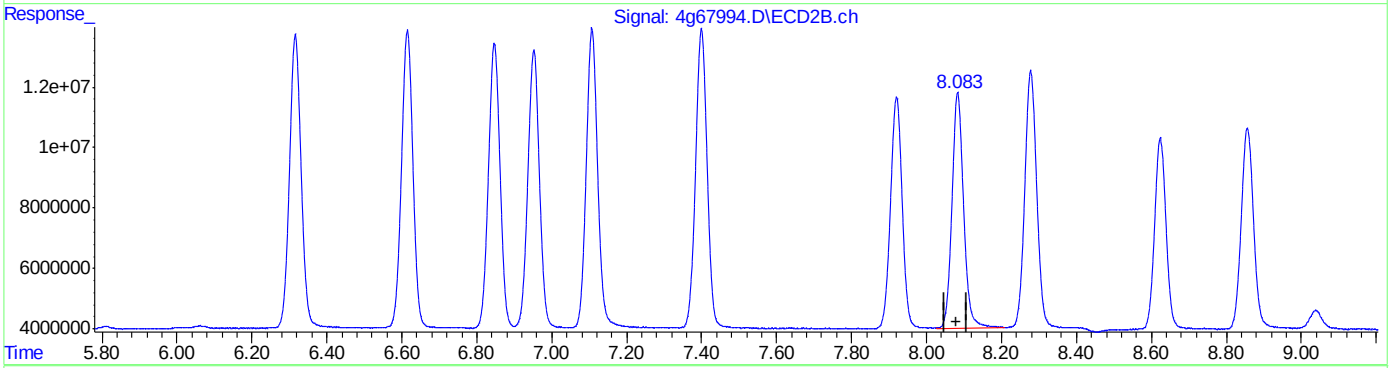
Quantitation Report (Qedit)

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

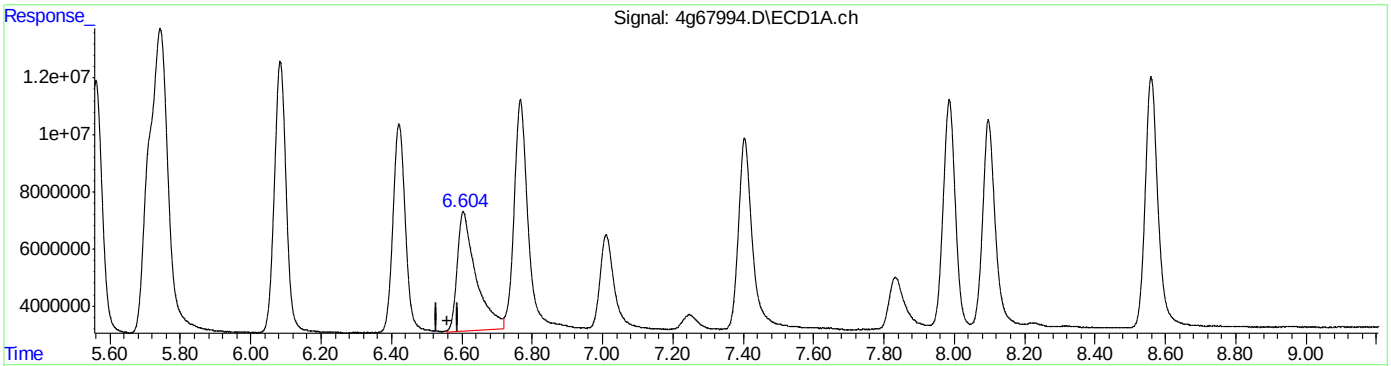
(+) = Expected Retention Time
4PST1778.M Sat May 07 14:32:01 2016 RPT1

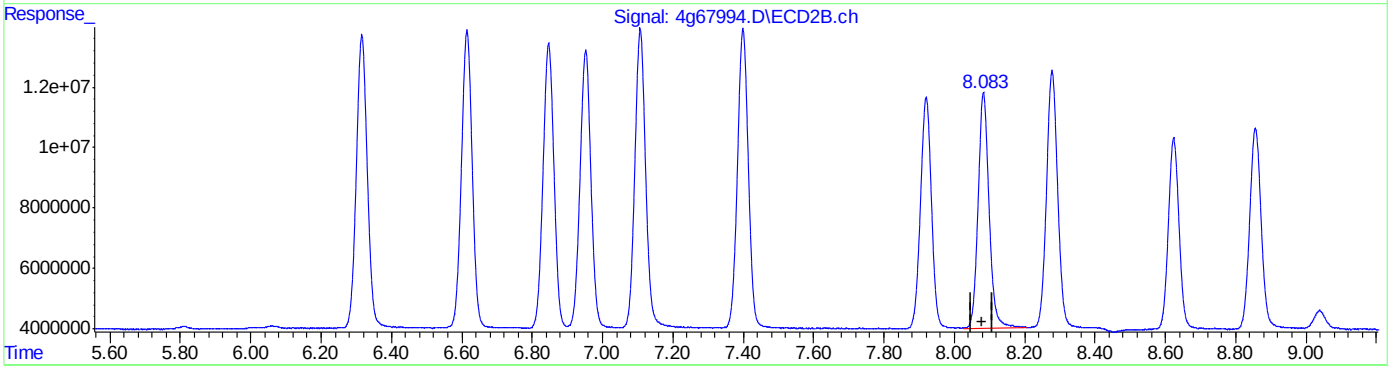
Quantitation Report (Qedit)

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

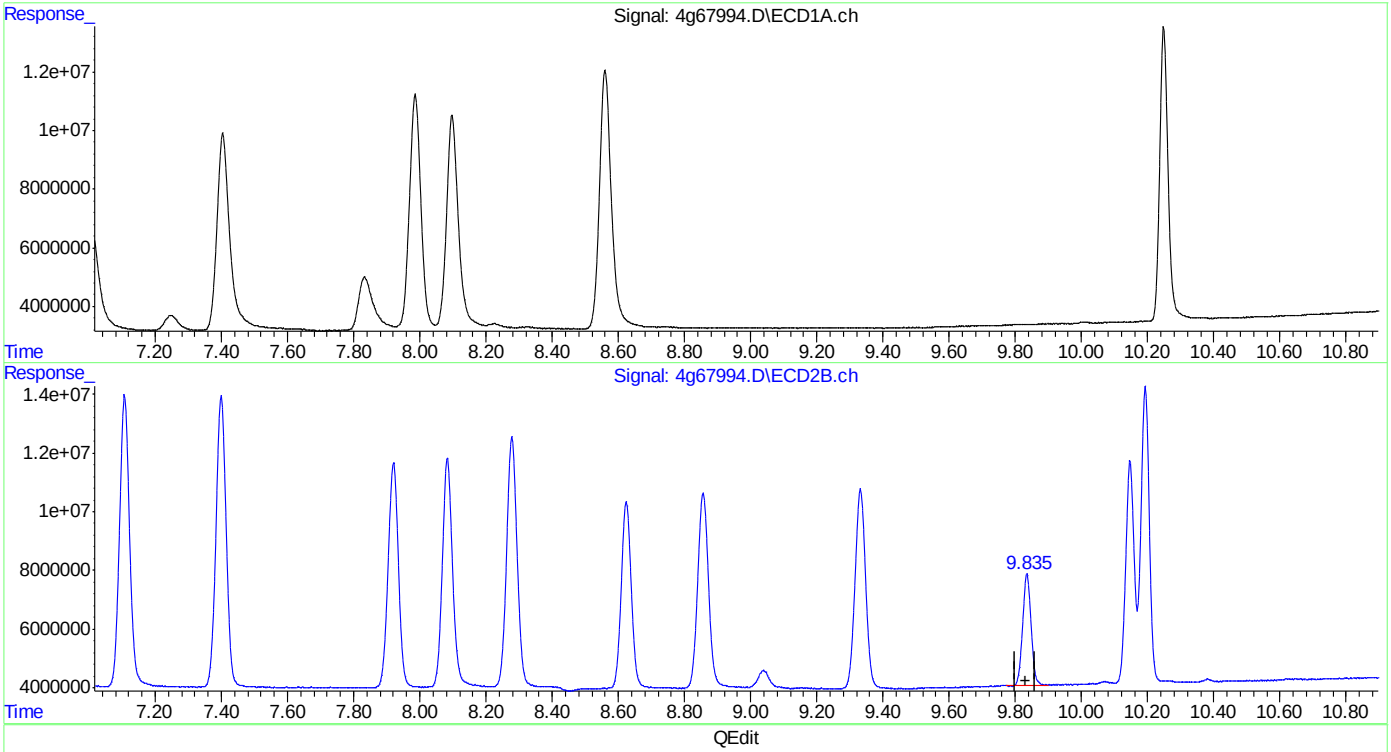
SGS ACCUTEST JC19473

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

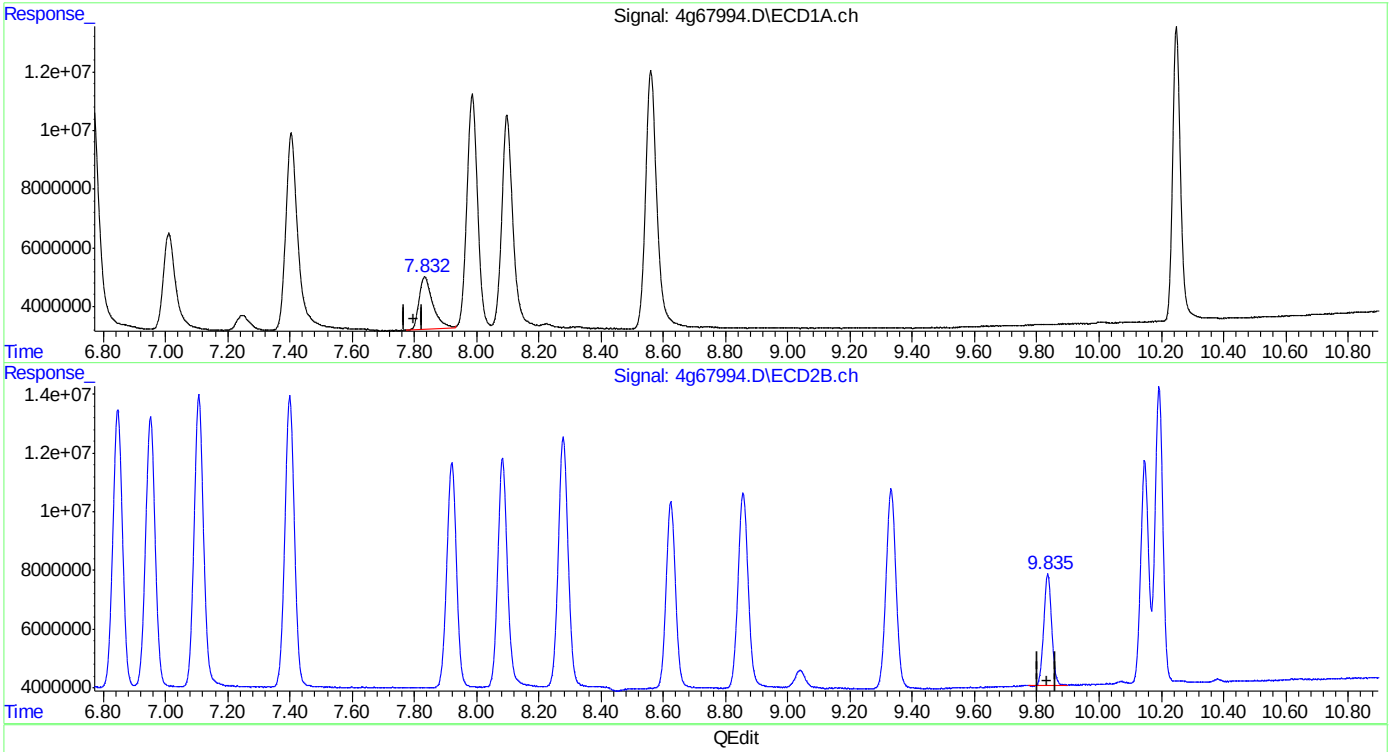
(+) = Expected Retention Time

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

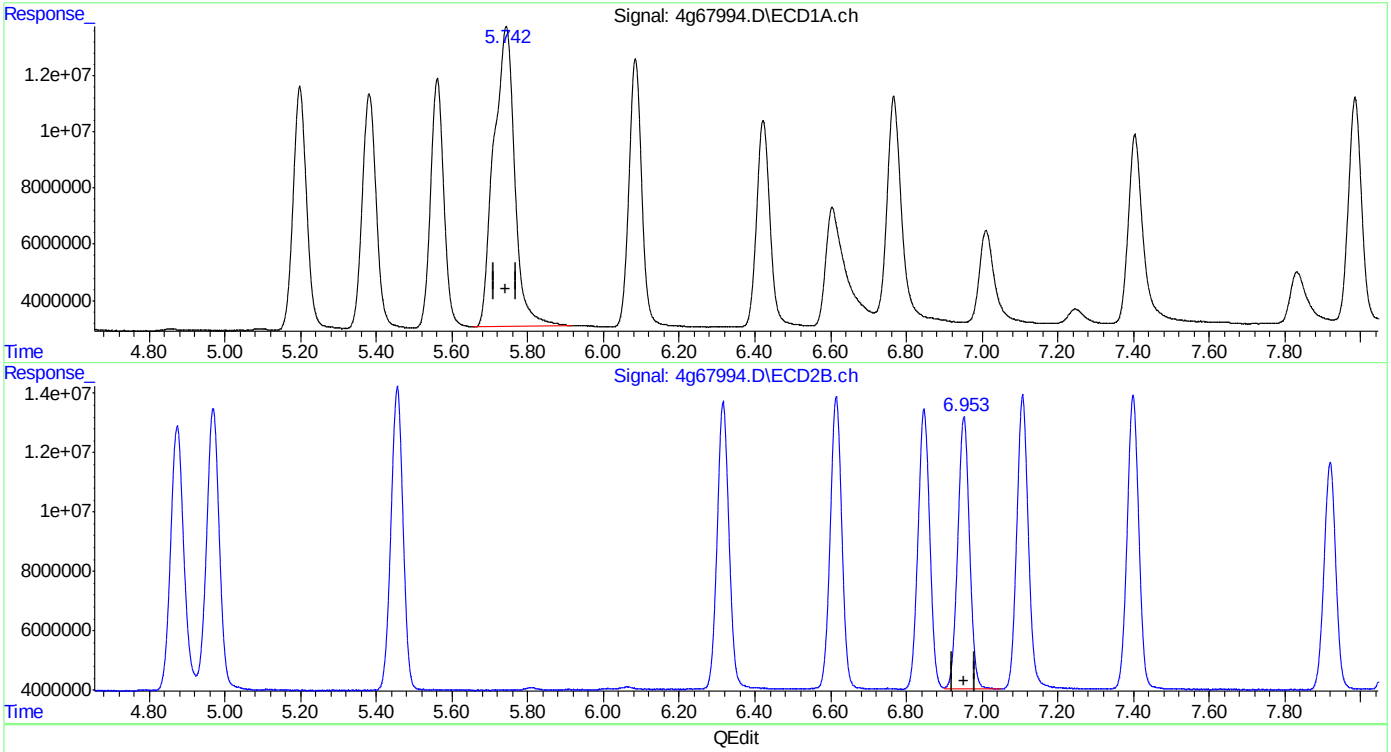
(+) = Expected Retention Time

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

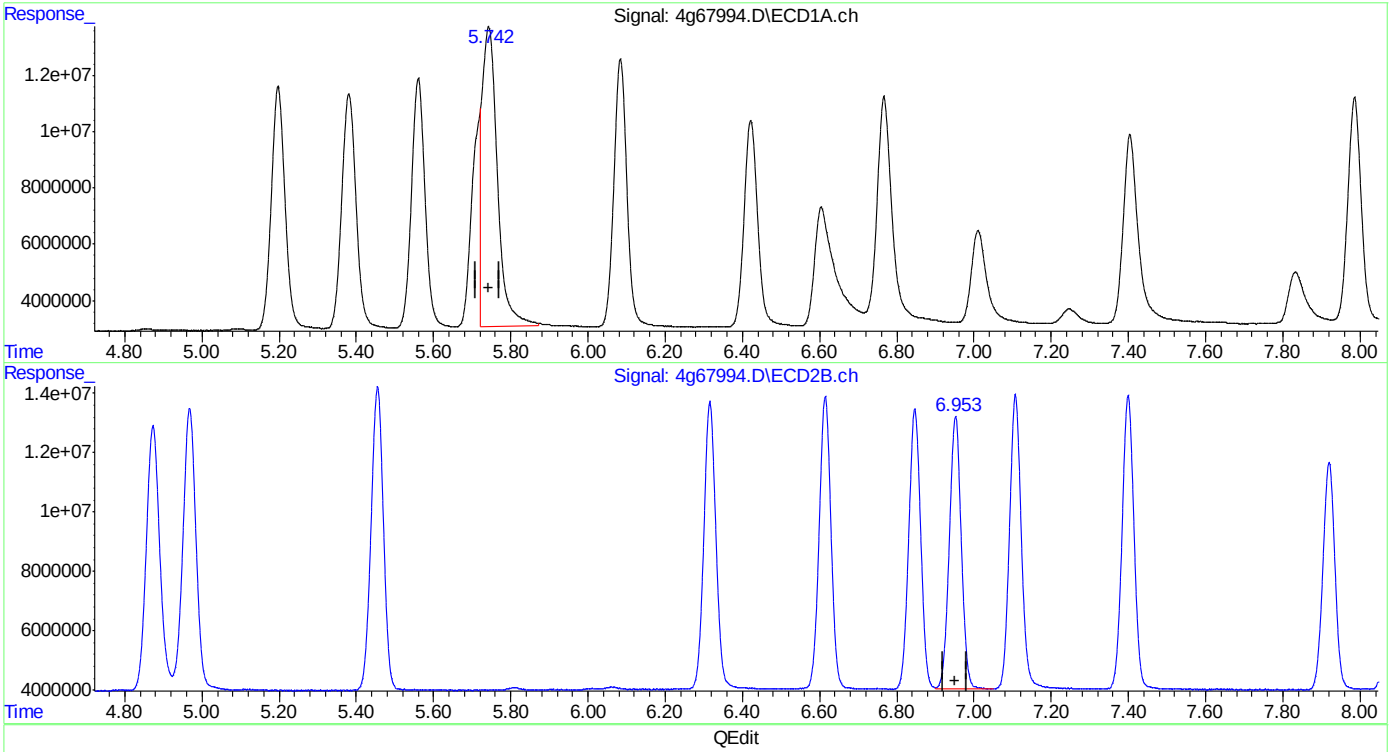
(+) = Expected Retention Time

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.

9.6.18

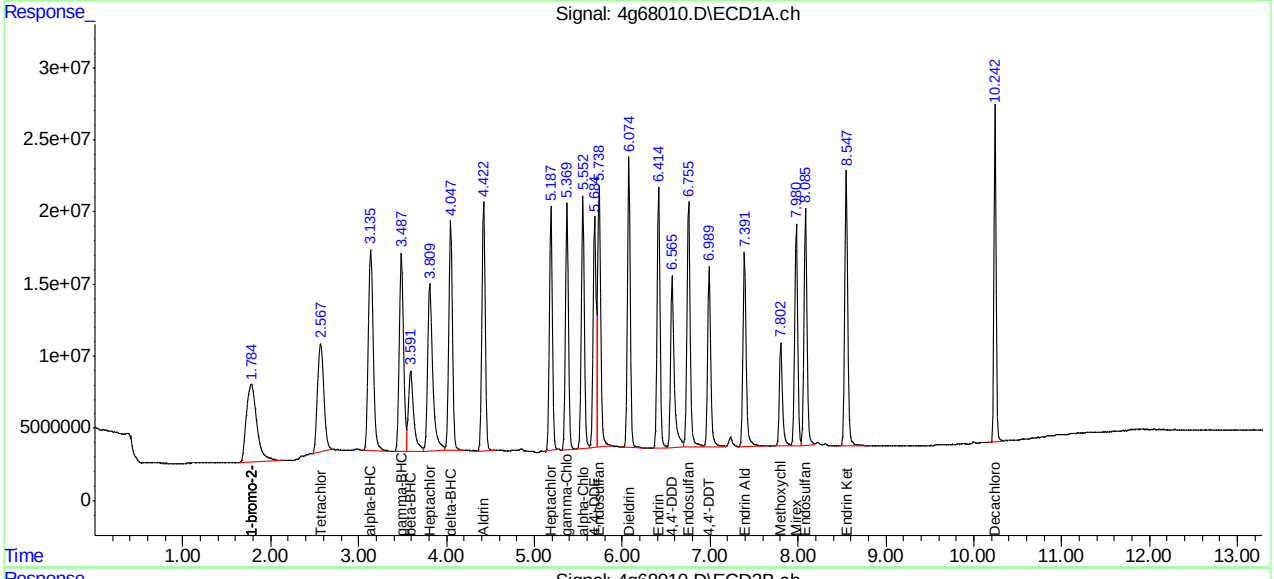
9

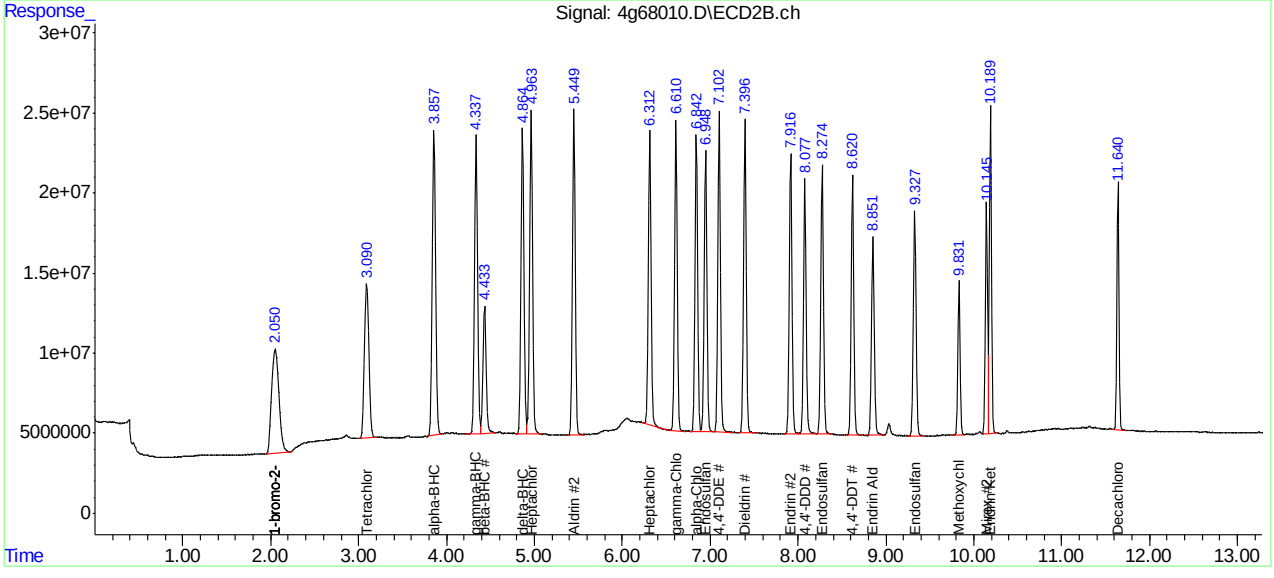
Quantitation Report (QT Reviewed)

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





SGS ACCUTEST JC19473

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

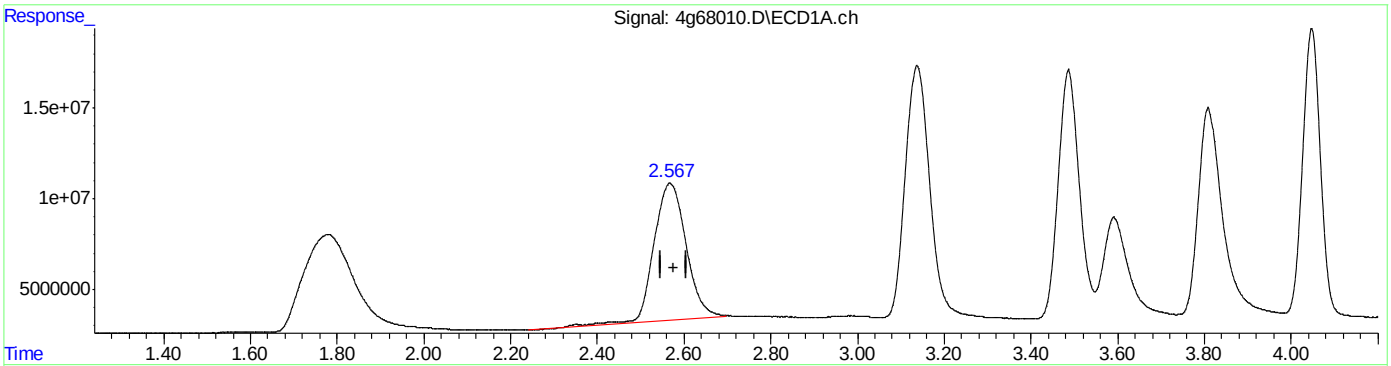
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.57	Poor instrument integration

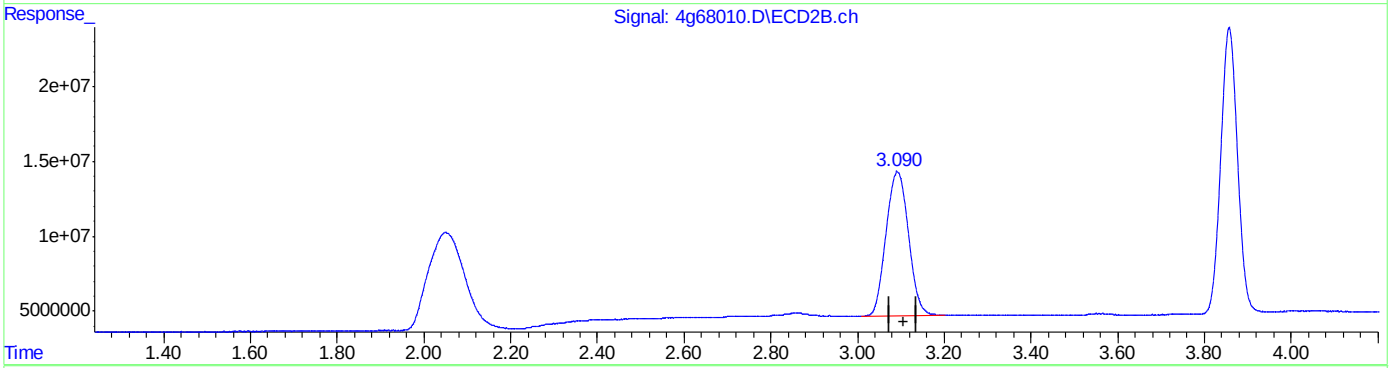
Quantitation Report (Qedit)

```
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

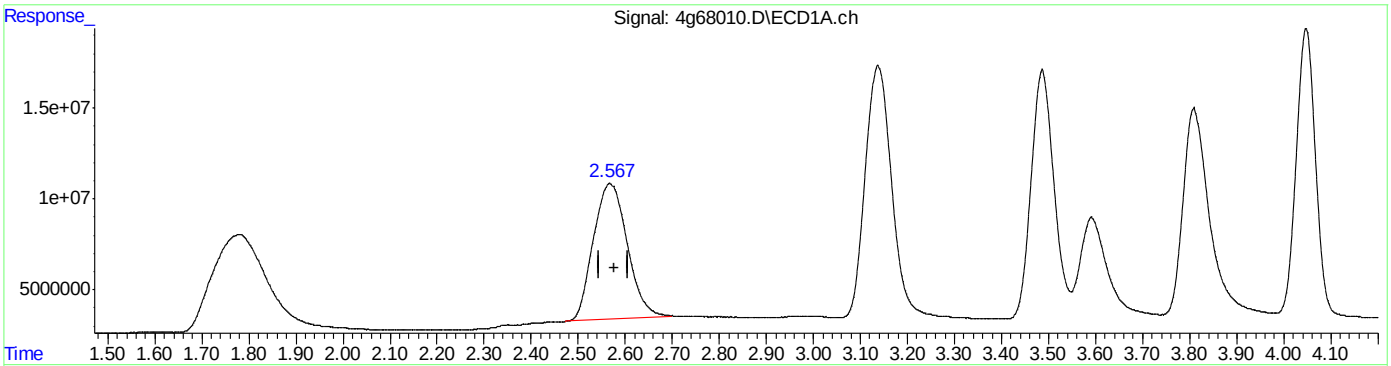
4PST1778.M Sat May 07 15:32:58 2016 RPT1

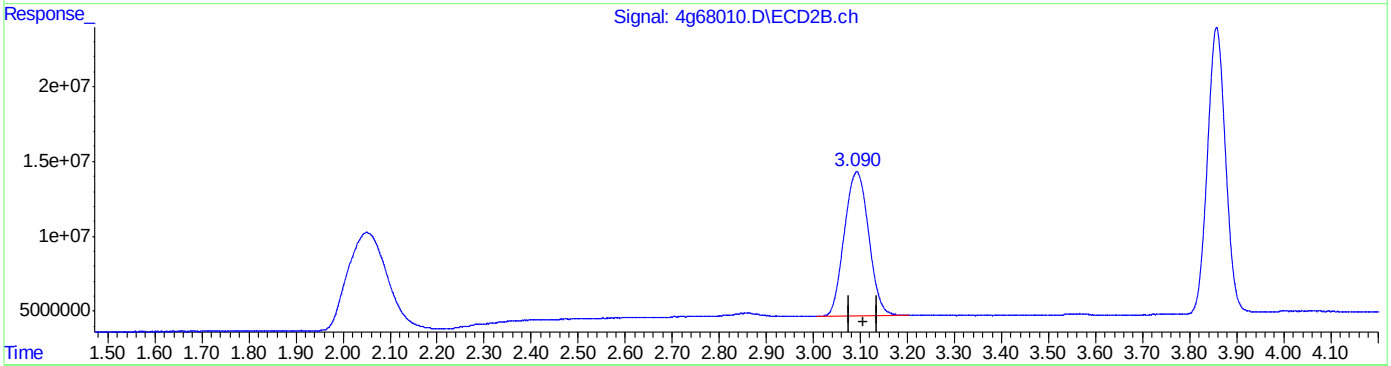
Quantitation Report (Qedit)

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

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:17:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.314	1.584	130.4E6	42608349	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.987	2.475	2576583	827902	1.118m	1.051m
	Spiked Amount 40.000 Range 30 - 150 Recovery =					2.80%#	2.63%#
24)	SAB Decachlor...	9.925	11.764	2333032	643637	1.134	1.107
	Spiked Amount 40.000			Recovery =		2.83%	2.77%
	Target Compounds						
3) A	alpha-BHC	2.500	3.182	2794596	1037508	0.967m	1.076
4) MA	gamma-BHC	2.816	3.635	2684360	984313	1.002	1.104
5) MA	Heptachlor	3.342	4.243	2907588	1127078	1.109	1.309
6) B	beta-BHC	2.896	3.726	1435856	516127	1.084m	1.168m
7) B	delta-BHC	3.088	4.143	2520045	949446	1.052	1.185
8) MB	Aldrin	3.694	4.720	2673148	1020760	1.081	1.222
9) B	Heptachlo...	4.445	5.602	2533344	891848	1.079	1.139m
10) B	gamma-Chl...	4.619	5.907	2568340	900104	1.066	1.176
11) B	alpha-Chl...	4.801	6.152	2584992	926584	1.092	1.208
12) A	Endosulfan I	4.982	6.251	2584666	934043	1.070	1.250
13) B	4,4'-DDE	4.930	6.450	2093929	845347	1.154	1.227
14) MA	Dieldrin	5.326	6.721	2496162	917148	1.088	1.197
15) MA	Endrin	5.669	7.267	2231160	820226	1.074	1.212
16) A	4,4'-DDD	5.819	7.482f	1856952	554689	1.176	0.878 #
17) B	Endosulfa...	6.009	7.651	2365736	802241	1.136	1.147
18) MA	4,4'-DDT	6.269	8.067	2028872	611344	1.218	1.460
19) B	Endrin Al...	6.683	8.276f	1963656	680376	1.167	1.208
20) B	Endosulfa...	7.419	8.792	2156792	757211	1.204	1.289
21) A	Methoxychlor	7.134f	9.448	1359857	297463	1.439	1.343m
22)	Mirex	7.268	9.753f	2186568	811332	1.112	1.361m
23) B	Endrin Ke...	7.893	9.838f	2459754	857280	1.257	1.365m

SemiQuant Compounds - Not Calibrated on this Instrument

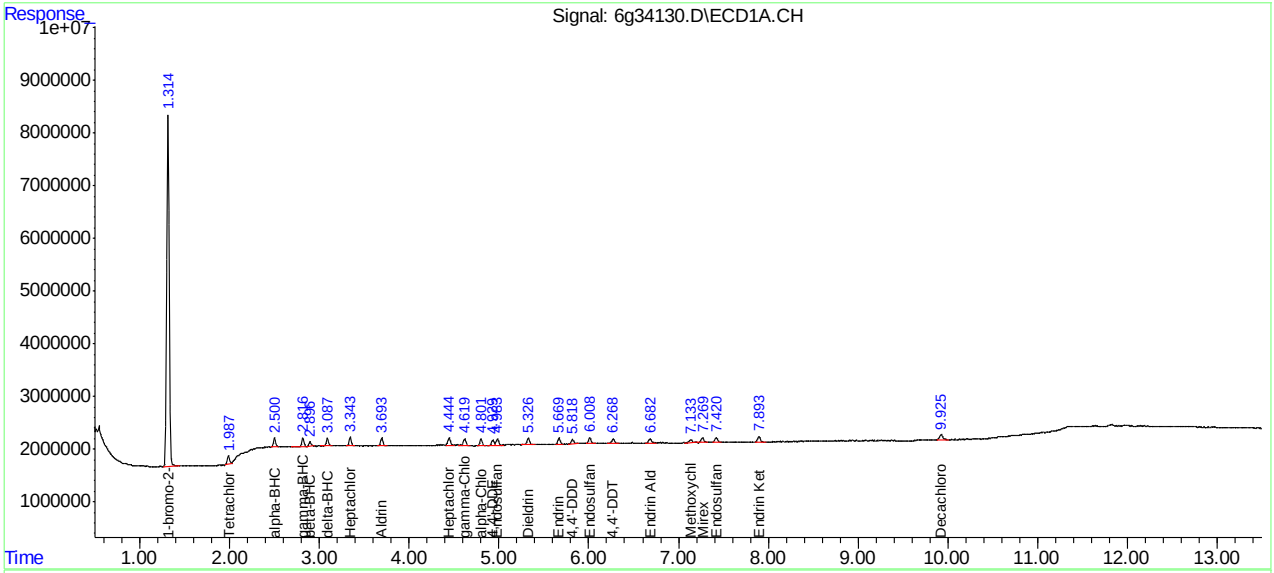
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

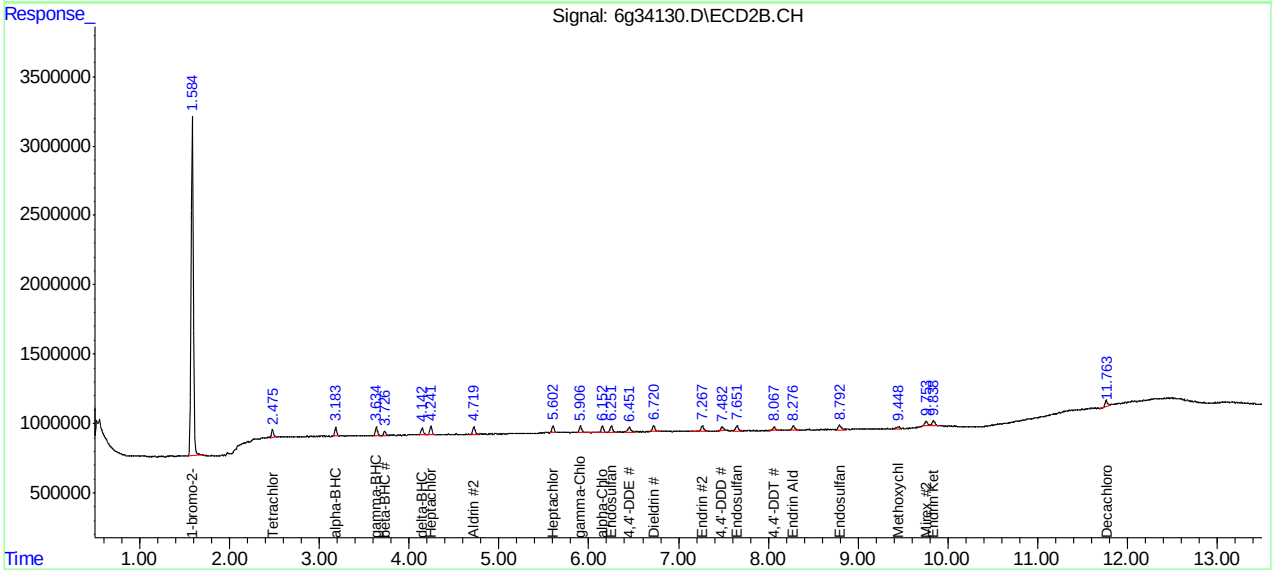
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:17:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Manual Integration Approval Summary

Sample Number: G6G987-IC987
Lab FileID: 6G34130.D
Injection Time: 04/14/16 15:49

Method: SW846 8081B
Analyst approved: 04/18/16 12:23 Dhara Saparia
Supervisor approved: 04/18/16 14:12 Gwendolyn Burns

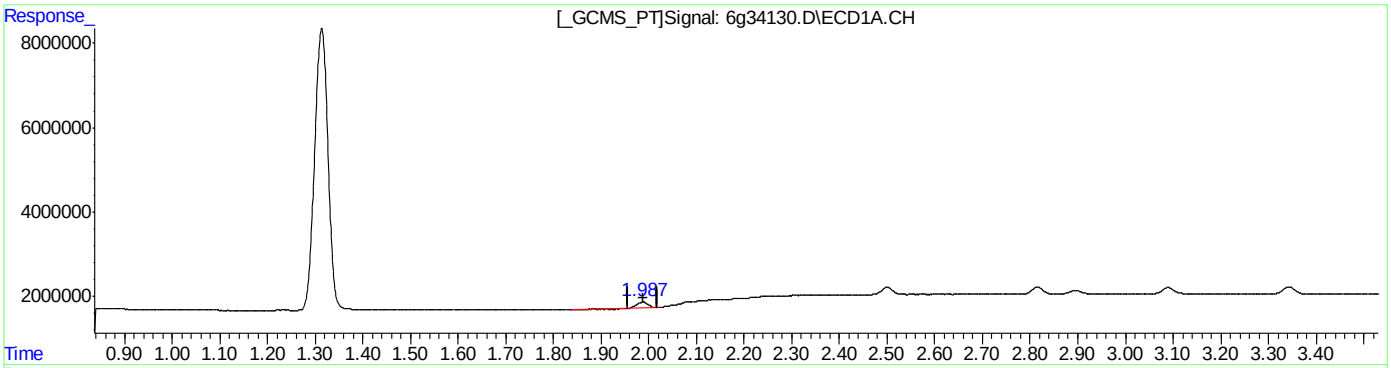
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.99	Poor instrument integration
Tetrachloro-m-xylene	877-09-8	2	2.48	Poor instrument integration
alpha-BHC	319-84-6	1	2.50	Poor instrument integration
beta-BHC	319-85-7	1	2.90	Poor instrument integration
beta-BHC	319-85-7	2	3.73	Poor instrument integration
Heptachlor epoxide	1024-57-3	2	5.60	Poor instrument integration
Methoxychlor	72-43-5	2	9.45	Poor instrument integration
Mirex	2385-85-5	2	9.75	Poor instrument integration
Endrin ketone	53494-70-5	2	9.84	Poor instrument integration

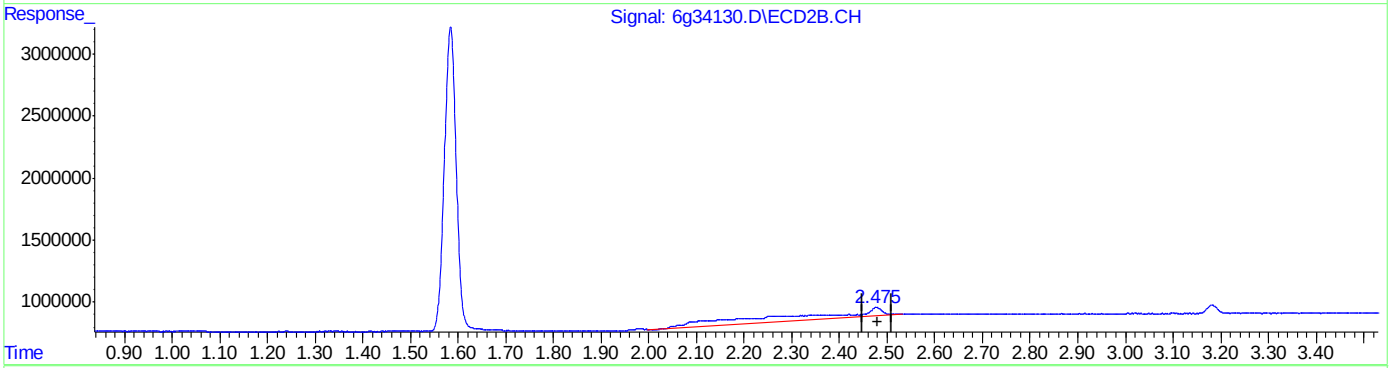
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 14 Apr 2016   3:49 pm
Operator  : dharas
Sample    : ic987-1
Misc      : op92908,g6g987,6.8,,,10,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title  : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.987min 0.787PPB

response 1813361

(2) Tetrachloro-m-xylene #2 (SAB)

2.477min 12.157PPB

response 9572770

(+) = Expected Retention Time

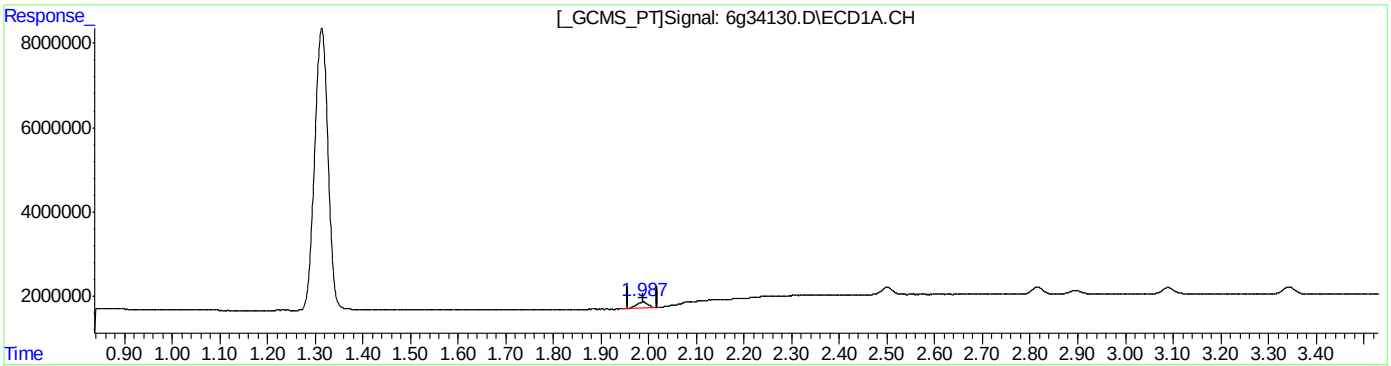
6PST987.M Mon Apr 18 10:52:06 2016

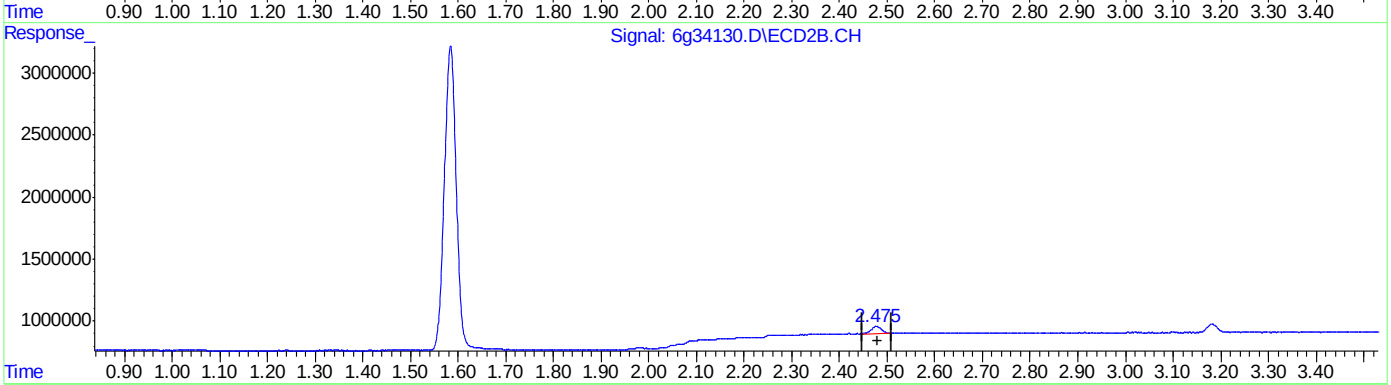
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 14 Apr 2016   3:49 pm
Operator  : dharas
Sample    : ic987-1
Misc      : op92908,g6g987,6.8,,,10,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title  : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.987min 1.118PPB m

response 2576583

(2) Tetrachloro-m-xylene #2 (SAB)

2.475min 1.051PPB m

response 827902

(+) = Expected Retention Time

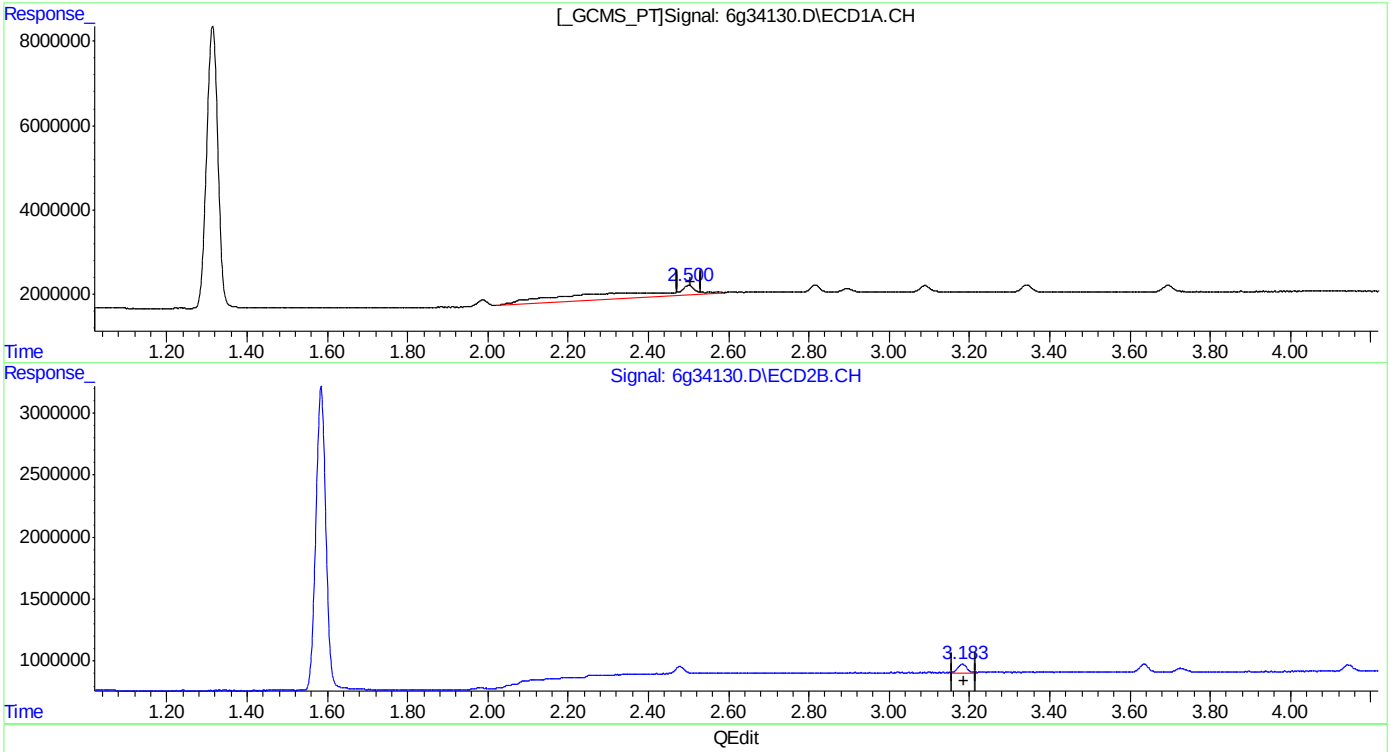
6PST987.M Mon Apr 18 10:52:29 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(3) alpha-BHC (A)
2.501min 11.218PPB
response 32431486

(3) alpha-BHC #2 (A)
3.182min 1.076PPB
response 1037508

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:52:32 2016

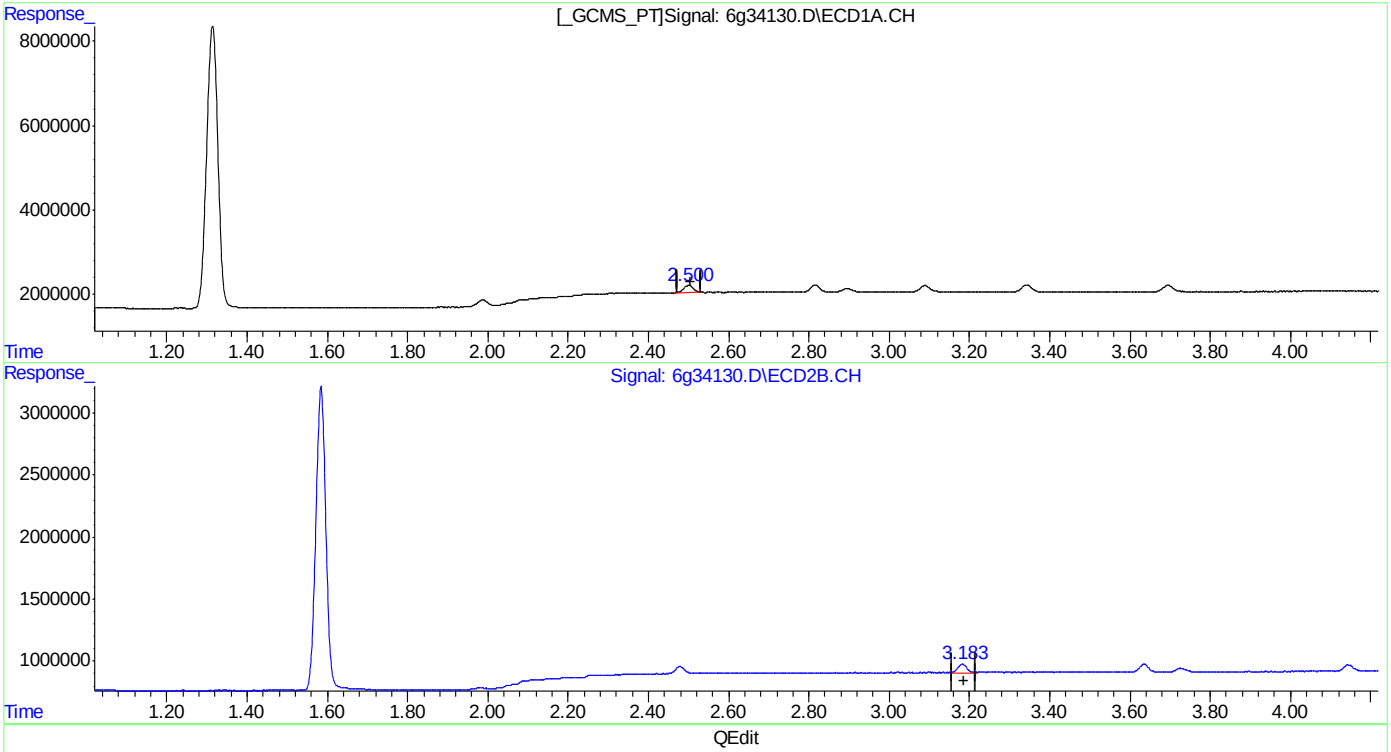
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(3) alpha-BHC (A)
2.500min 0.967PPB m
response 2794596

(3) alpha-BHC #2 (A)
3.182min 1.076PPB
response 1037508

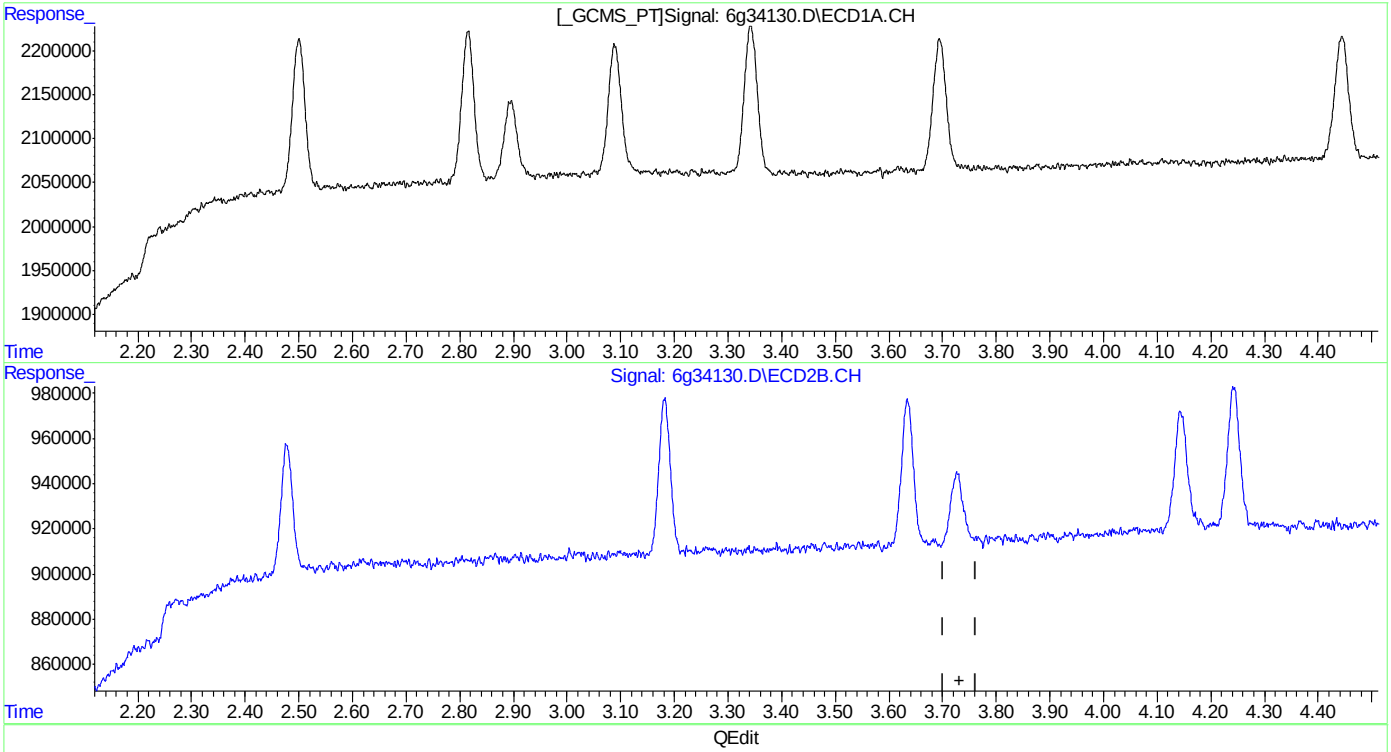
(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:52:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) beta-BHC (B)
0.000min 0.000PPB
response 0

(6) beta-BHC #2 (B)
0.000min 0.000PPB
response 0

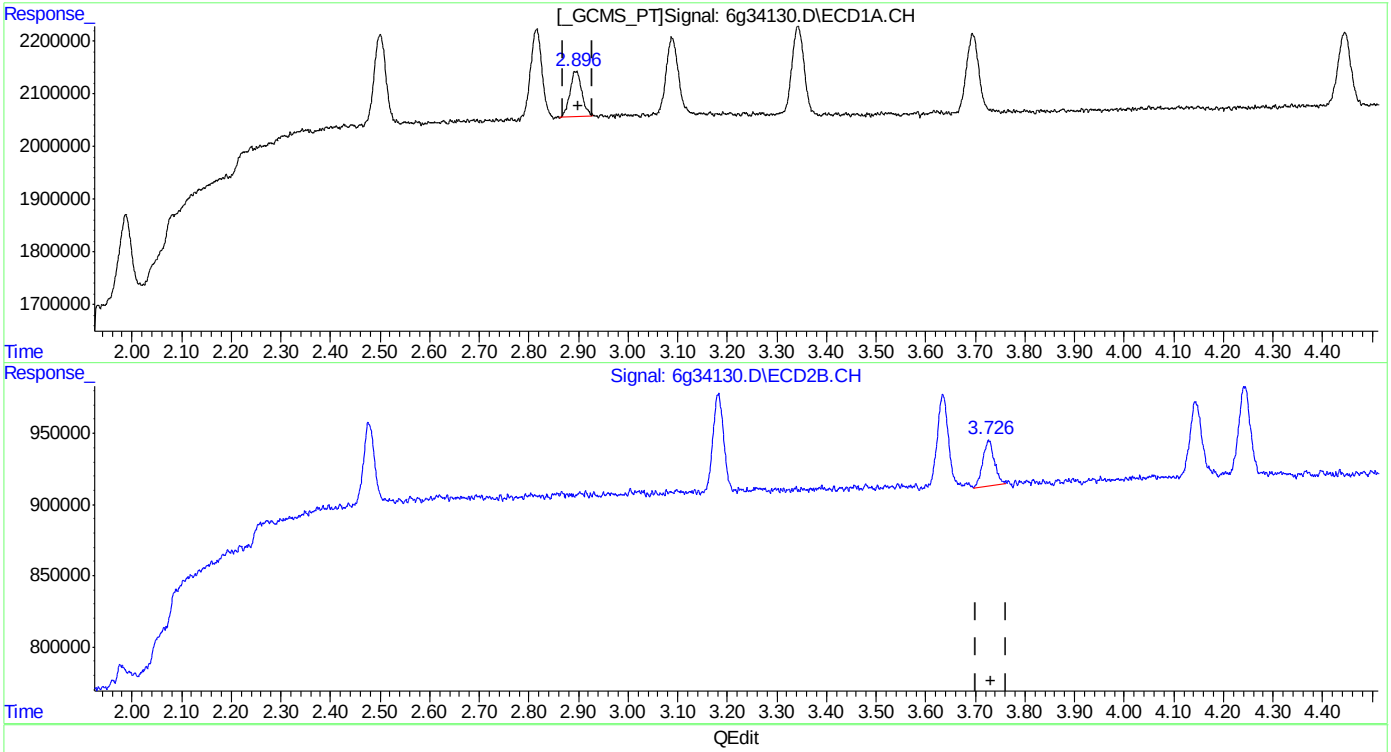
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(6) beta-BHC (B)
2.896min 1.084PPB m
response 1435856

(6) beta-BHC #2 (B)
3.726min 1.168PPB m
response 516127

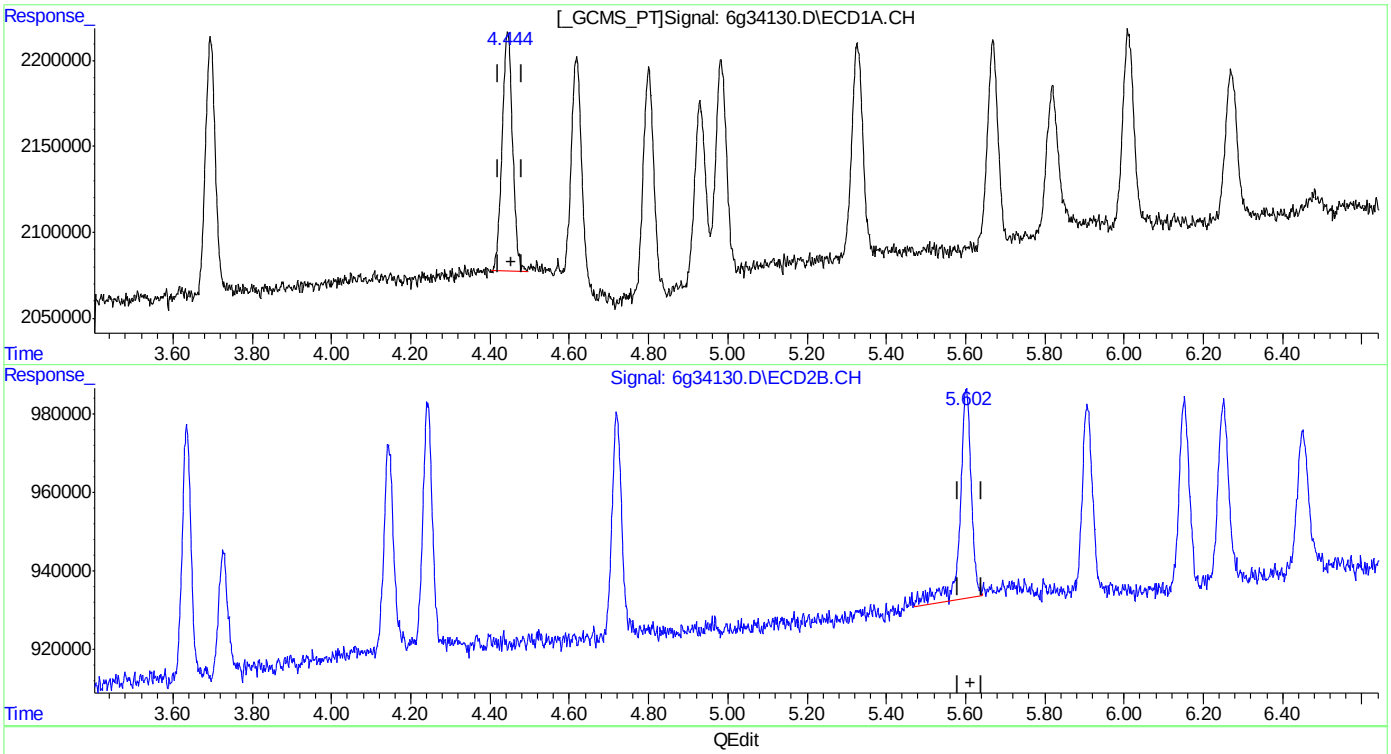
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) Heptachlor Epoxide (B)
4.445min 1.079PPB
response 2533344

(9) Heptachlor Epoxide #2 (B)
5.602min 1.388PPB
response 1086853

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:53:12 2016

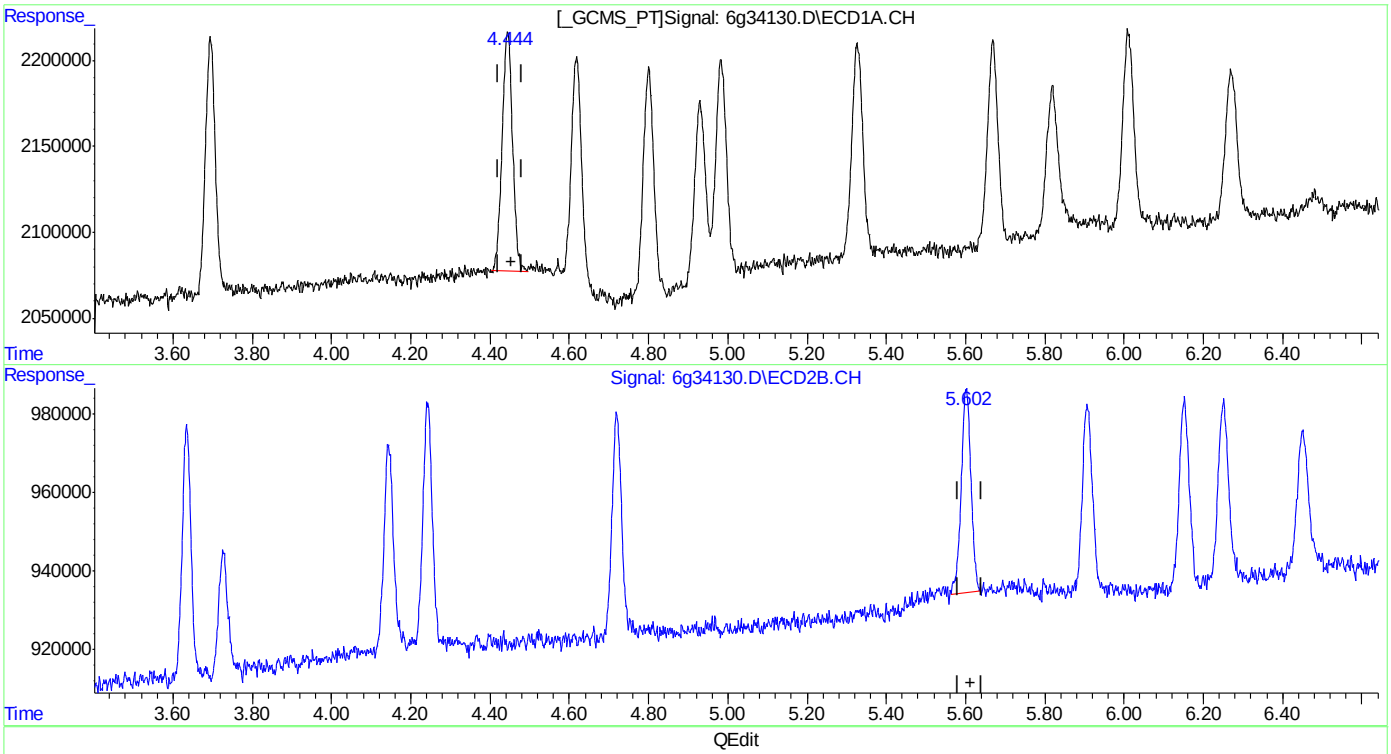
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) Heptachlor Epoxide (B)
4.445min 1.079PPB
response 2533344

(9) Heptachlor Epoxide #2 (B)
5.602min 1.139PPB m
response 891848

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:53:20 2016

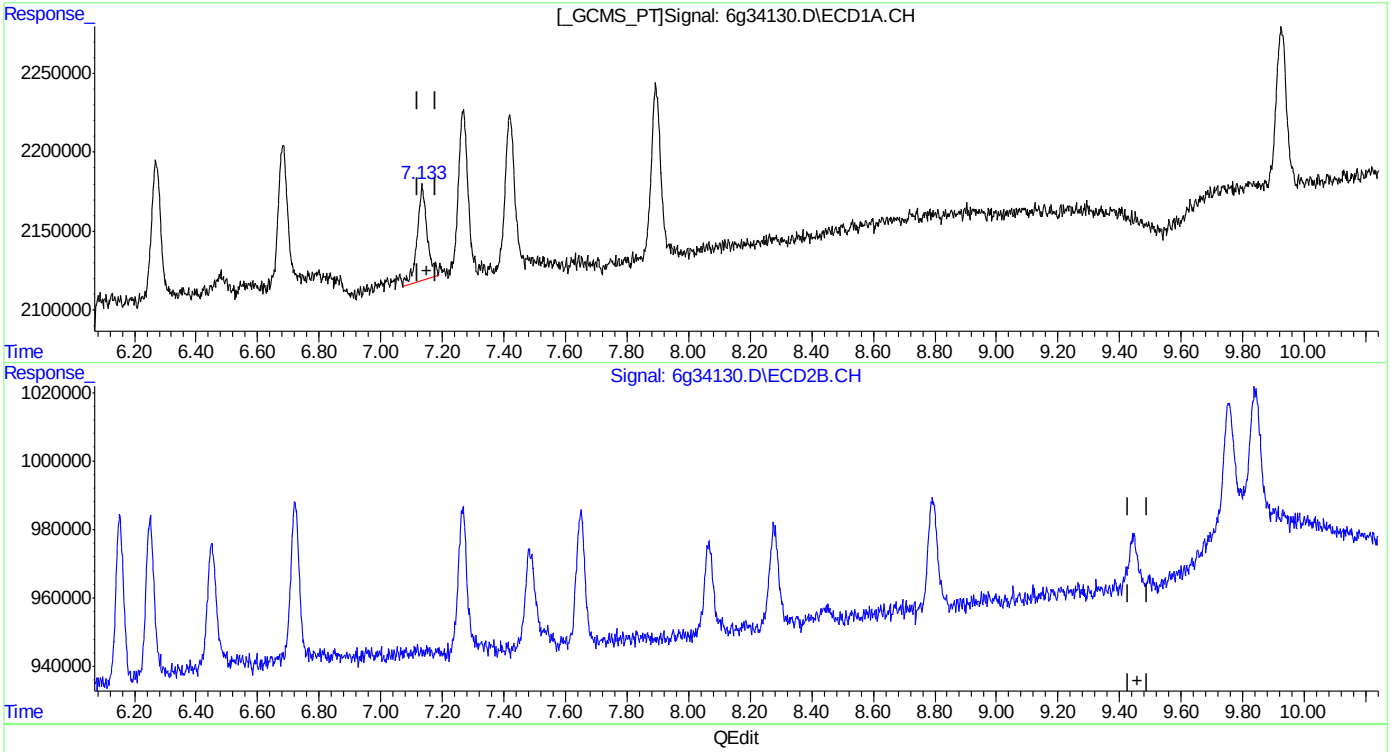
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) Methoxychlor (A)
7.134min 1.439PPB
response 1359857

(21) Methoxychlor #2 (A)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:53:36 2016

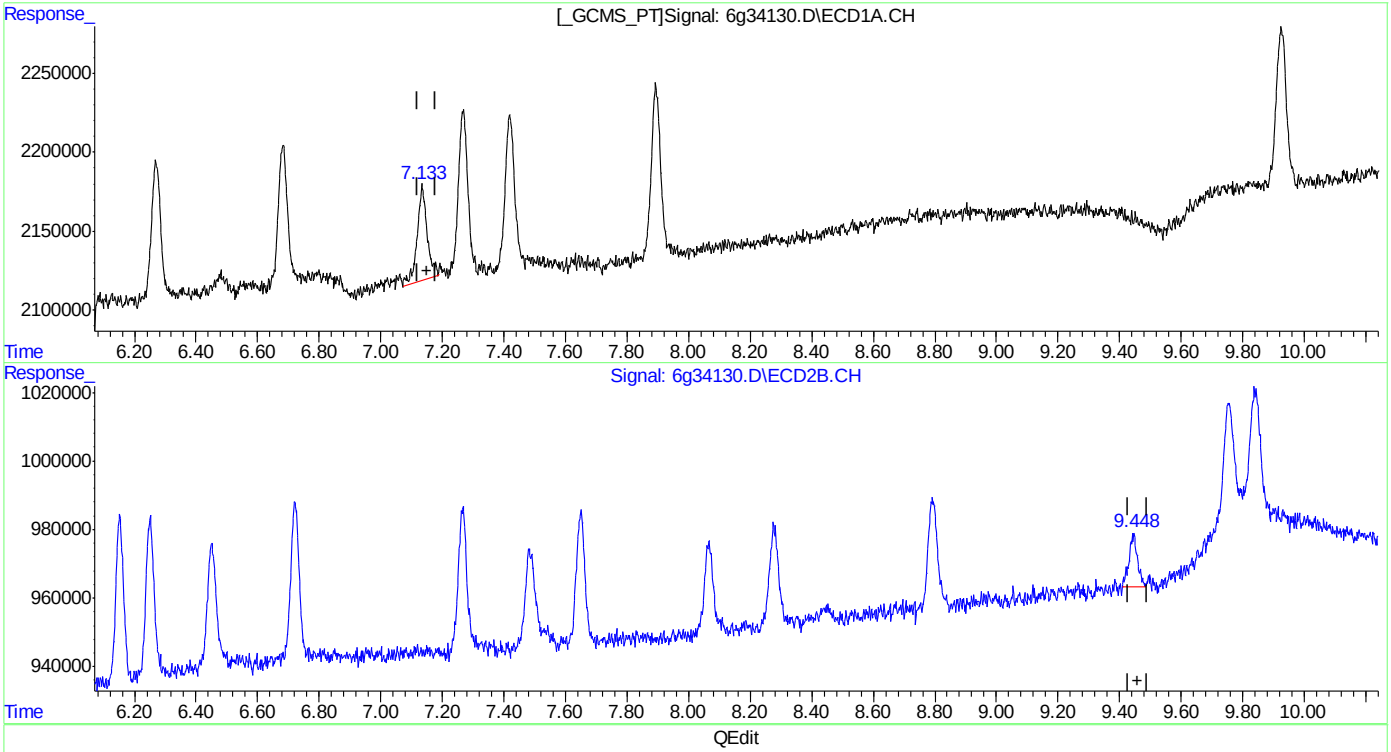
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) Methoxychlor (A)
7.134min 1.439PPB
response 1359857

(21) Methoxychlor #2 (A)
9.448min 1.343PPB m
response 297463

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:53:45 2016

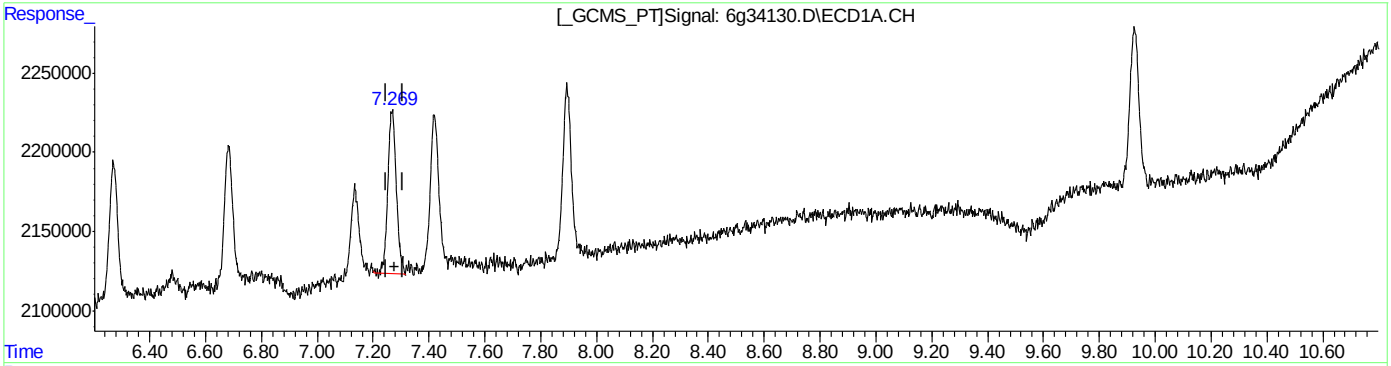
SGS ACCUTEST JC19473

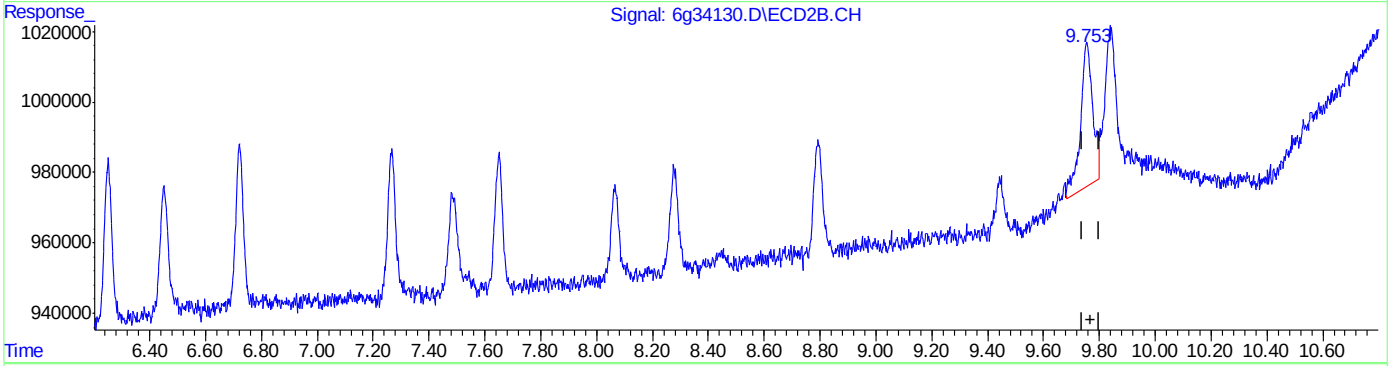
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(22) Mirex
7.268min 1.112PPB
response 2186568

(22) Mirex #2
9.754min 2.103PPB
response 1253259

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:53:55 2016

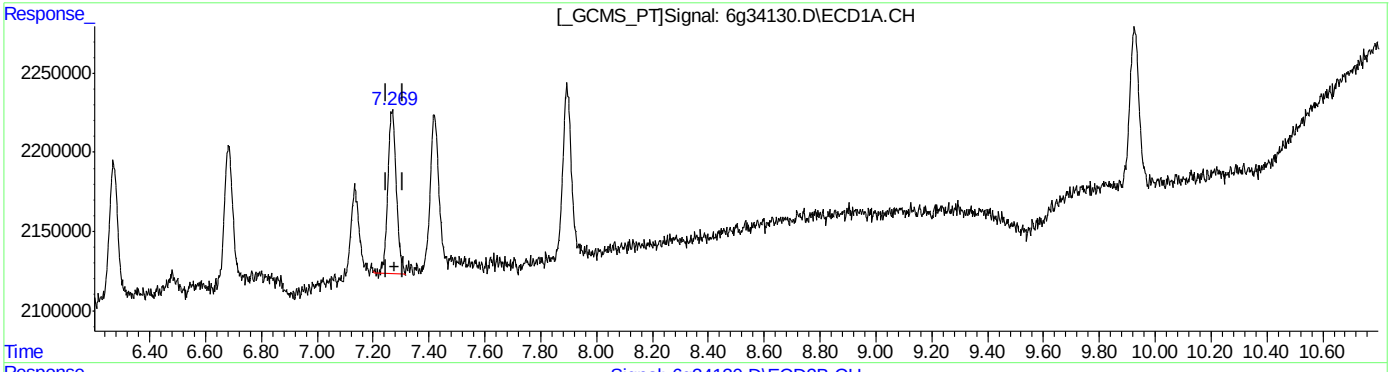
SGS ACCUTEST JC19473

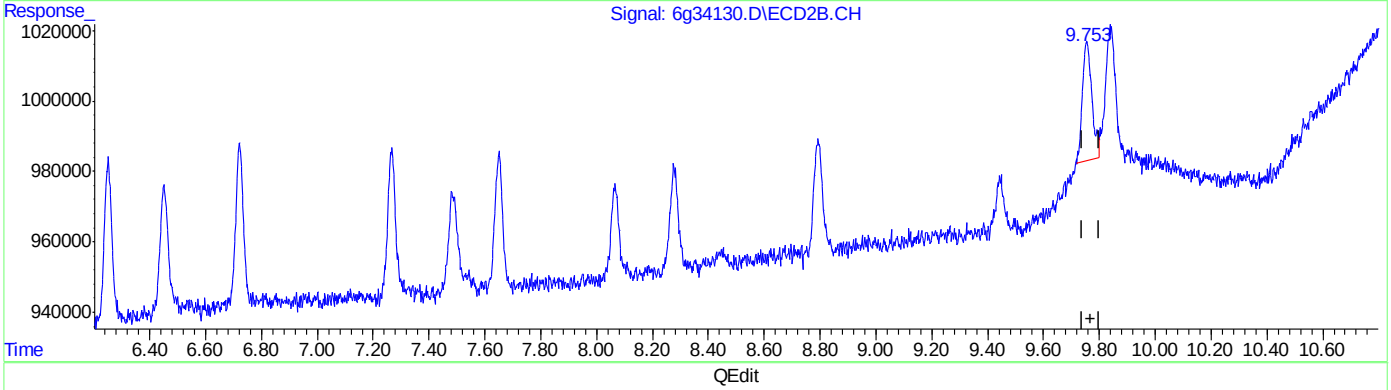
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(22) Mirex
7.268min 1.112PPB
response 2186568

(22) Mirex #2
9.753min 1.361PPB m
response 811332

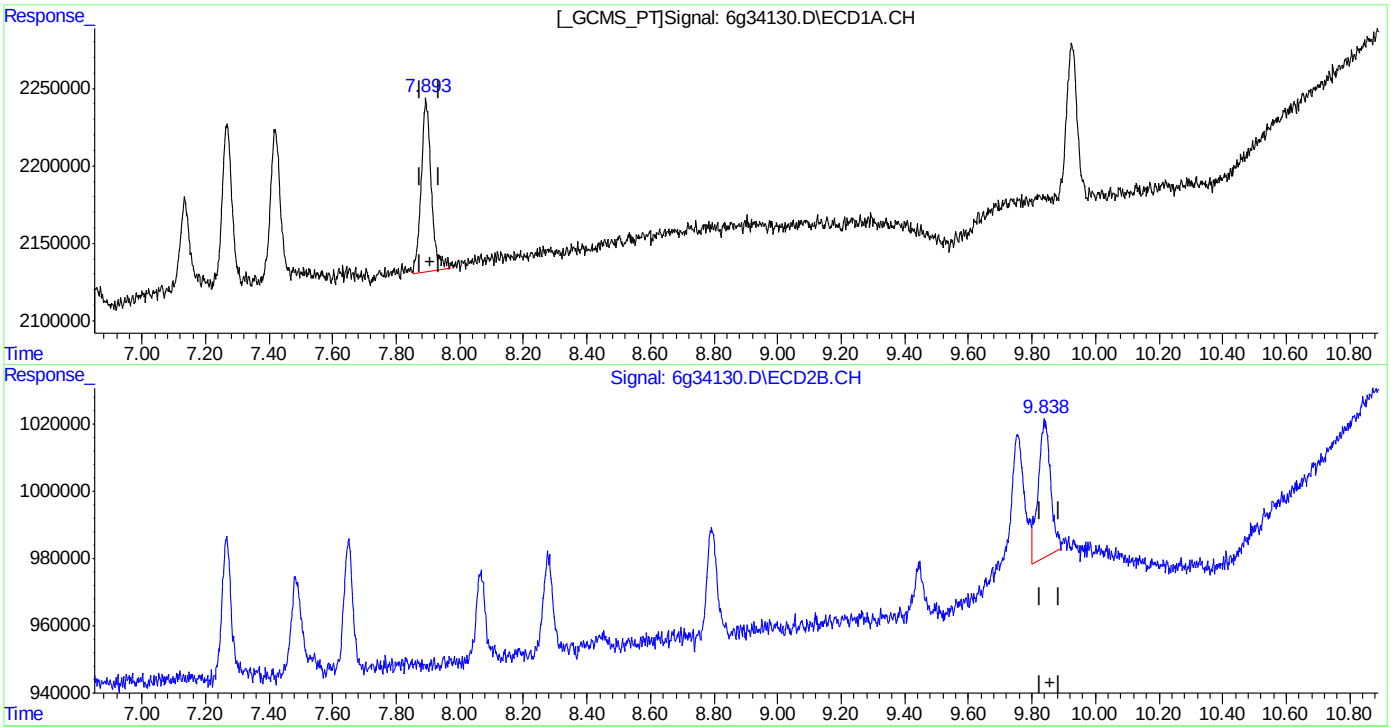
(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:54:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) Endrin Ketone (B)
7.893min 1.257PPB
response 2459754

(23) Endrin Ketone #2 (B)
9.844min 1.769PPB
response 1111083

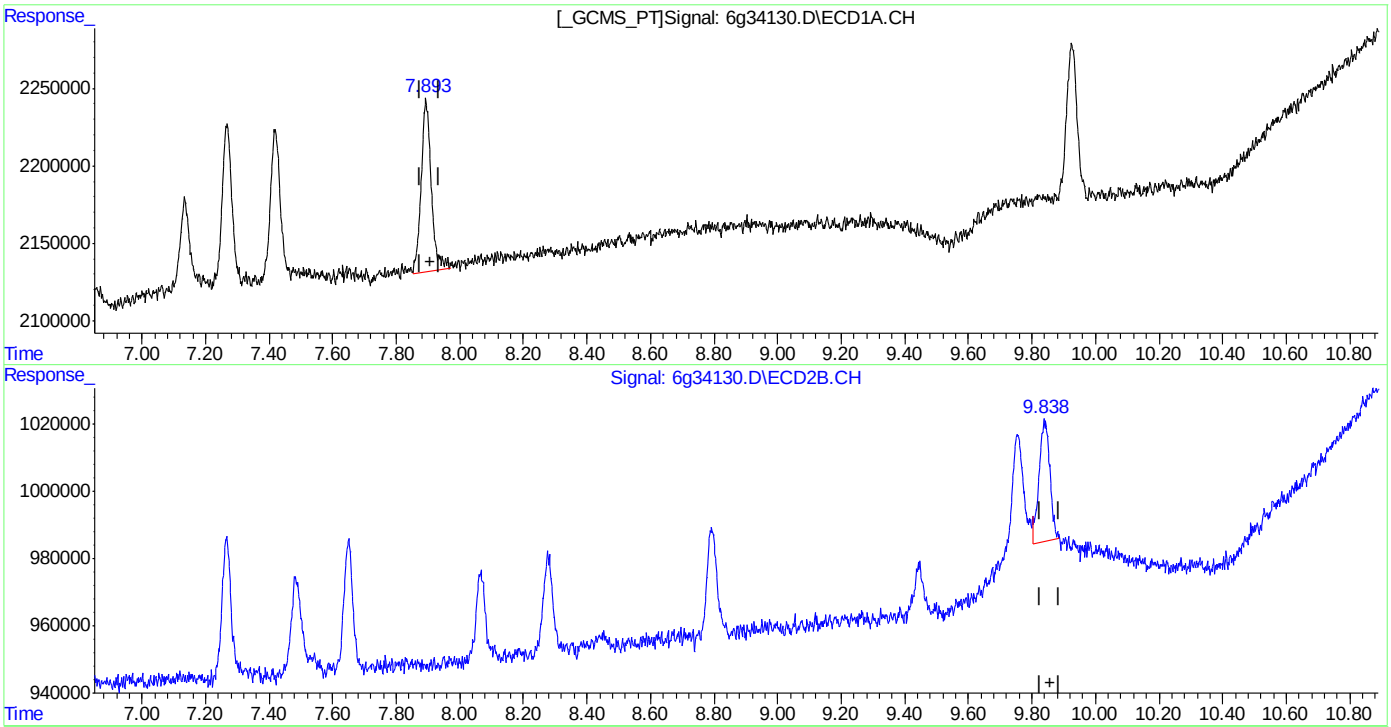
(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:54:12 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(23) Endrin Ketone (B)
7.893min 1.257PPB
response 2459754

(23) Endrin Ketone #2 (B)
9.838min 1.365PPB m
response 857280

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.314	1.585	138.6E6	45170280	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.988	2.479	5101788	1738576	2.082	2.083
Spiked Amount		40.000	Range	30 - 150	Recovery	= 5.21%#	5.21%#
24) SAB	Decachlor...	9.926	11.763	4607200	1403506	2.107	2.277m
Spiked Amount		40.000			Recovery	= 5.27%	5.69%
	Target Compounds						
3) A	alpha-BHC	2.500	3.183	5774894	2058064	1.879	2.013
4) MA	gamma-BHC	2.816	3.636	5554647	1999405	1.950	2.116
5) MA	Heptachlor	3.344	4.243	5832418	2063856	2.092	2.260
6) B	beta-BHC	2.896	3.726	3076723	981586	2.186m	2.096m
7) B	delta-BHC	3.090	4.145	4966804	1849032	1.950	2.177
8) MB	Aldrin	3.695	4.721	5278516	1881659	2.008	2.125
9) B	Heptachlo...	4.445	5.603	5114038	1885907	2.050	2.272
10) B	gamma-Chl...	4.619	5.909	5065834	1833515	1.978	2.260
11) B	alpha-Chl...	4.802	6.153	5102906	1756720	2.028	2.161
12) A	Endosulfan I	4.983	6.253	5137112	1702104	2.001	2.148
13) B	4,4'-DDE	4.931	6.452	4058606	1526131	2.104	2.090
14) MA	Dieldrin	5.327	6.724	4928360	1784737	2.022	2.198
15) MA	Endrin	5.670	7.266	4499665	1631535	2.037	2.274
16) A	4,4'-DDD	5.819	7.486	3497822	1276576	2.084	1.907
17) B	Endosulfa...	6.010	7.650	4442758	1574127	2.007	2.122
18) MA	4,4'-DDT	6.270	8.067	3705960	1175821	2.093	2.648 #
19) B	Endrin Al...	6.683	8.279	3577534	1247912	2.000	2.091
20) B	Endosulfa...	7.423	8.793	3981880	1446528	2.091	2.323
21) A	Methoxychlor	7.137	9.443f	2283360	614080	2.273	2.615m
22)	Mirex	7.269	9.755f	4245275	1416035	2.031	2.241
23) B	Endrin Ke...	7.896	9.843	4563666	1657293	2.194	2.490

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.20

9

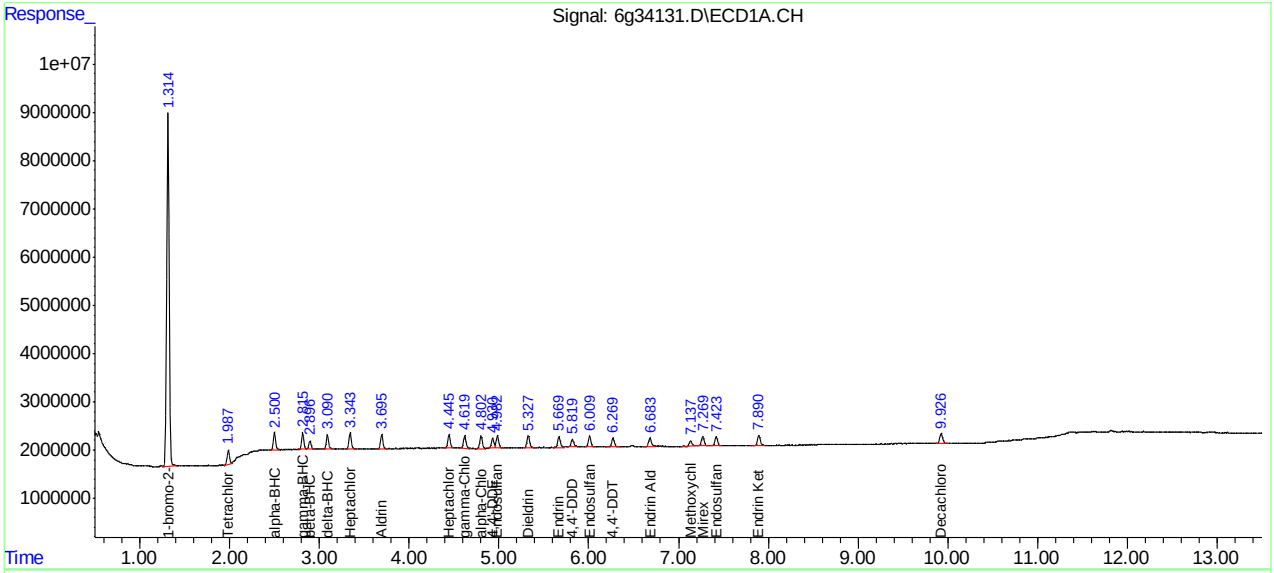
SGS ACCUTEST JC19473

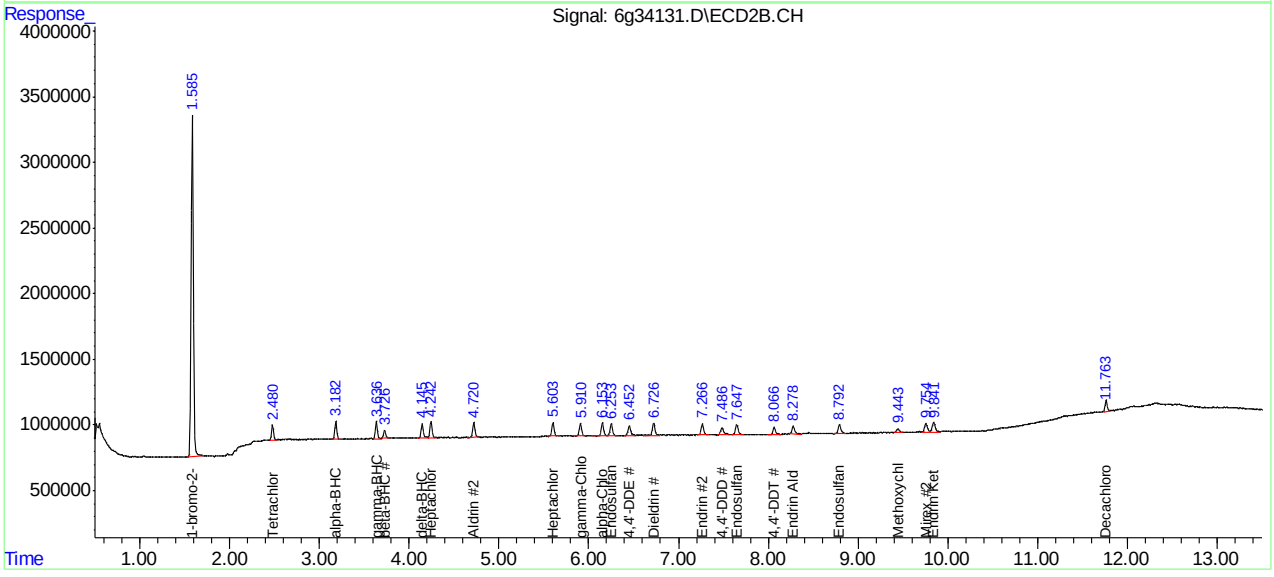
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34131.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 16:05	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

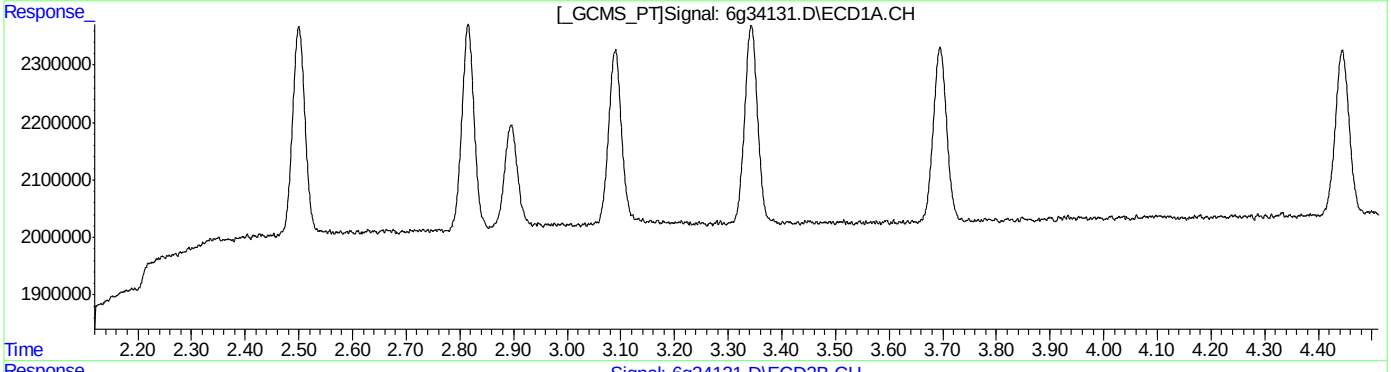
Parameter	CAS	Sig#	R.T. (min.)	Reason
beta-BHC	319-85-7	1	2.90	Poor instrument integration
beta-BHC	319-85-7	2	3.73	Poor instrument integration
Methoxychlor	72-43-5	2	9.44	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	11.76	Poor instrument integration

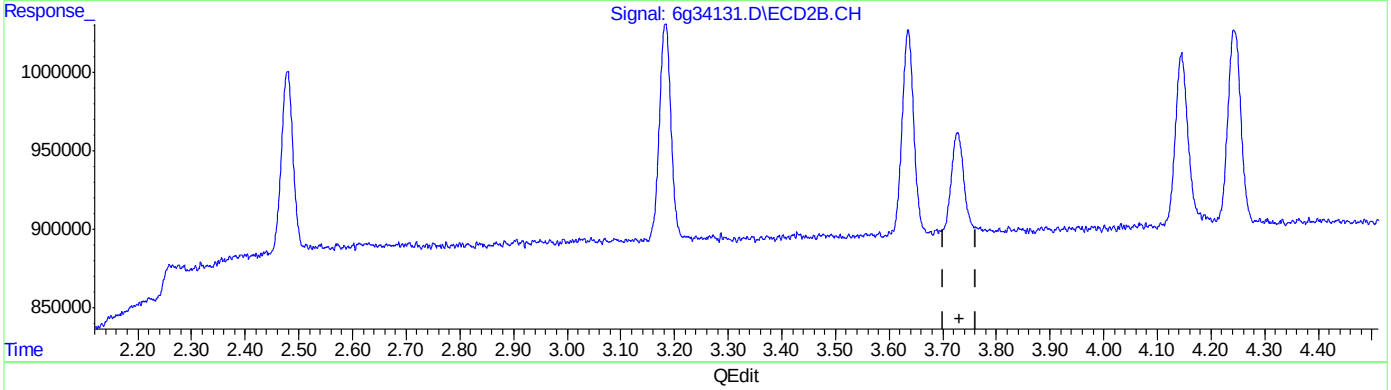
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(6) beta-BHC (B)
0.000min 0.000PPB
response 0

(6) beta-BHC #2 (B)
0.000min 0.000PPB
response 0

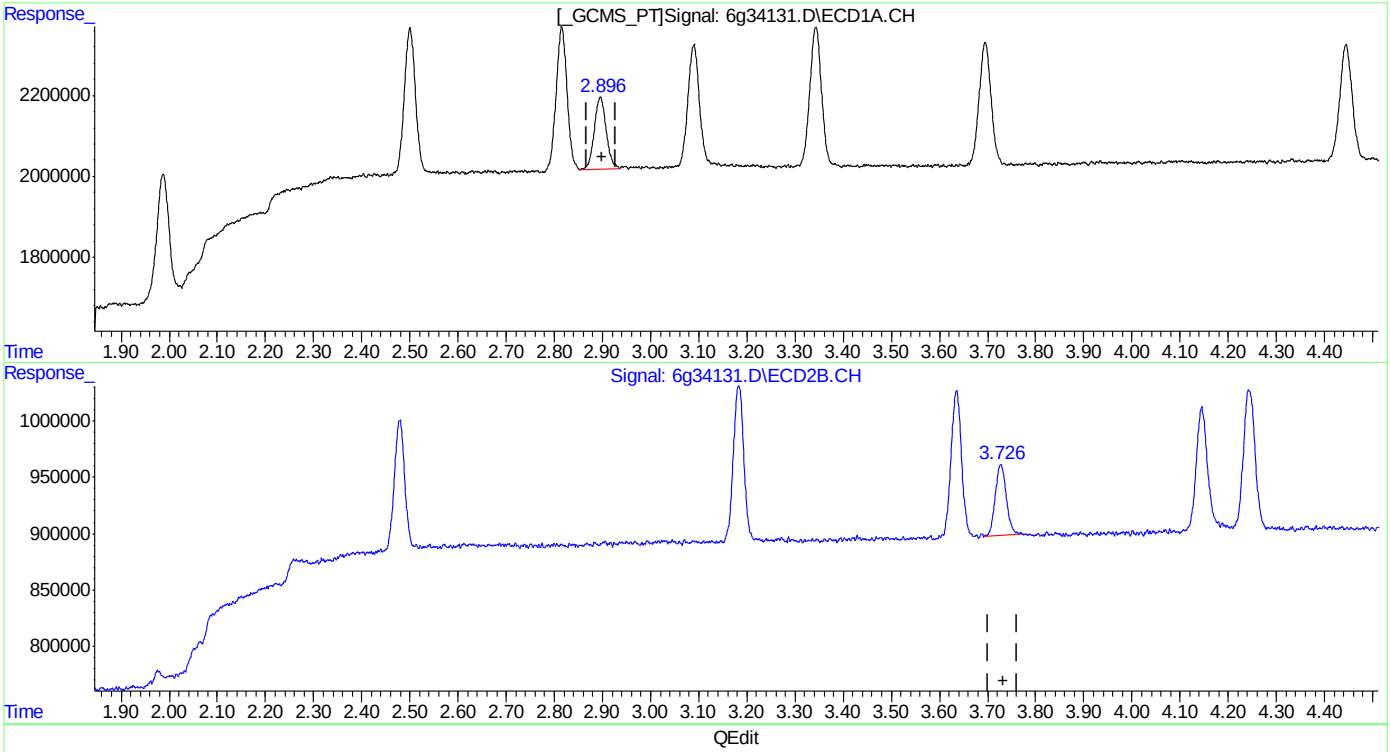
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) beta-BHC (B)
2.896min 2.186PPB m
response 3076723

(6) beta-BHC #2 (B)
3.726min 2.096PPB m
response 981586

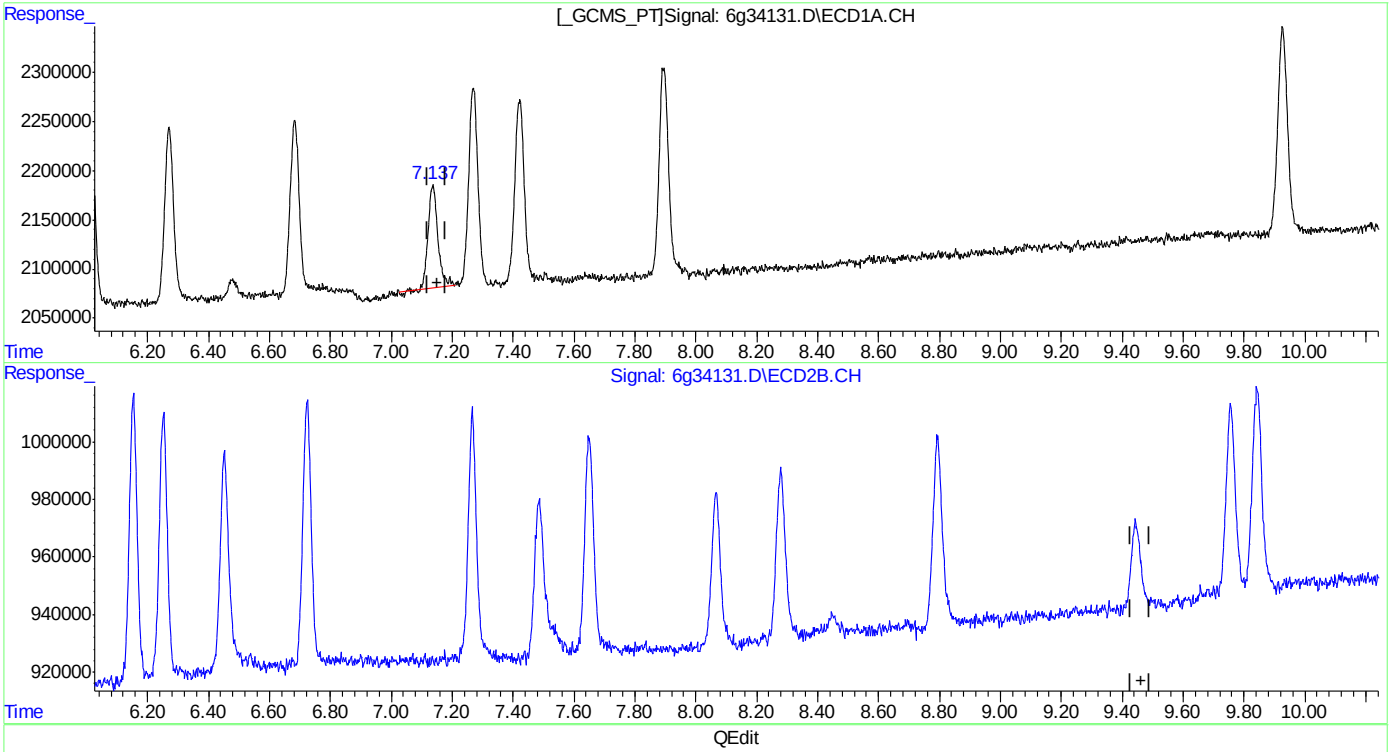
(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:41:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) Methoxychlor (A)
7.137min 2.273PPB
response 2283360

(21) Methoxychlor #2 (A)
0.000min 0.000PPB
response 0

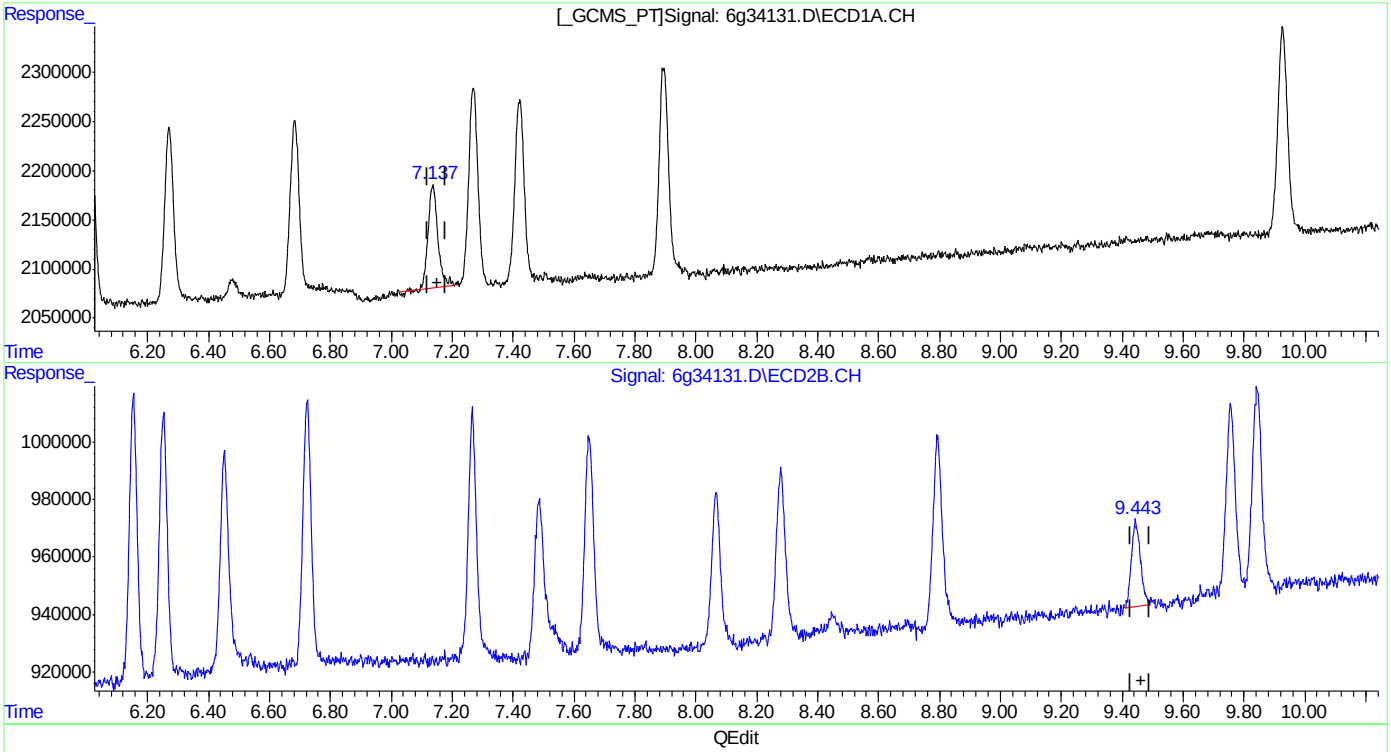
(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:42:14 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) Methoxychlor (A)
7.137min 2.273PPB
response 2283360

(21) Methoxychlor #2 (A)
9.443min 2.615PPB m
response 614080

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:42:22 2016

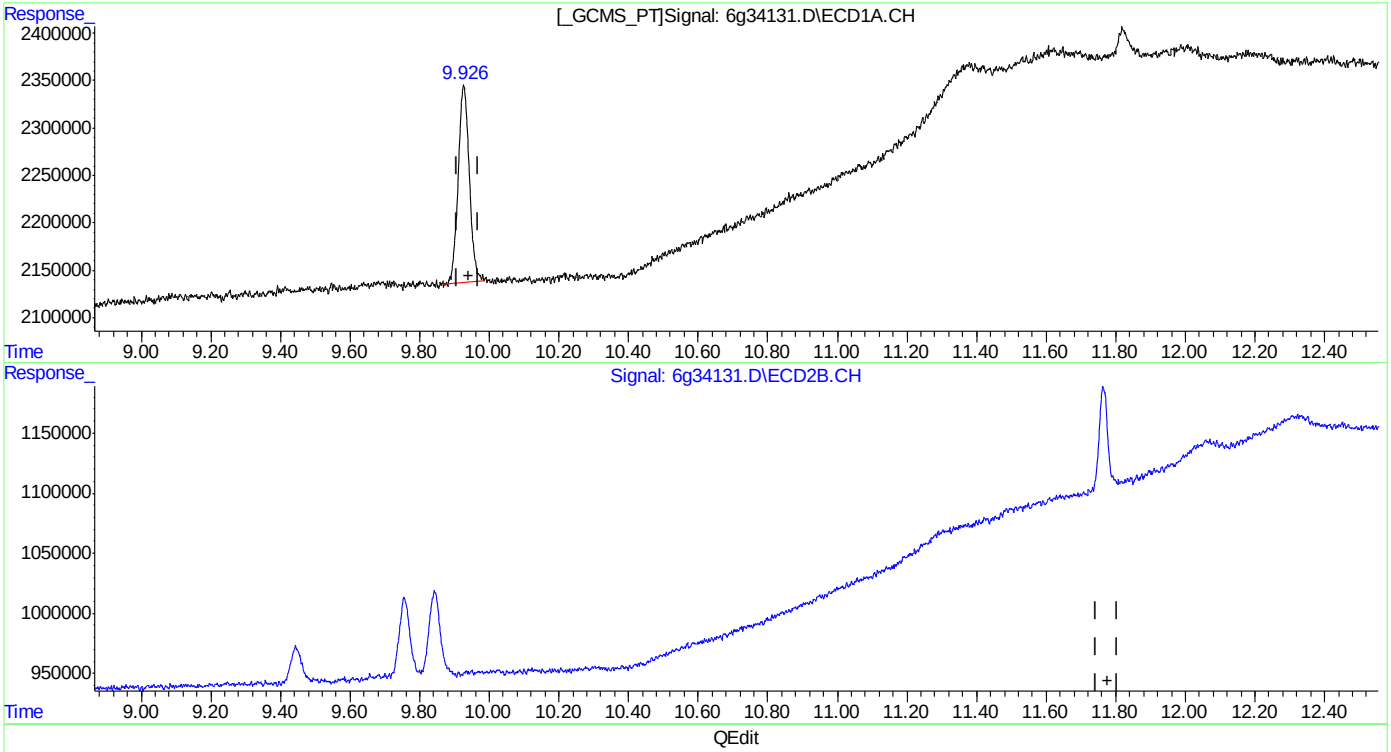
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) Decachlorobiphenyl (SAB)
9.926min 2.107PPB
response 4607200

(24) Decachlorobiphenyl #2 (SAB)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:42:27 2016

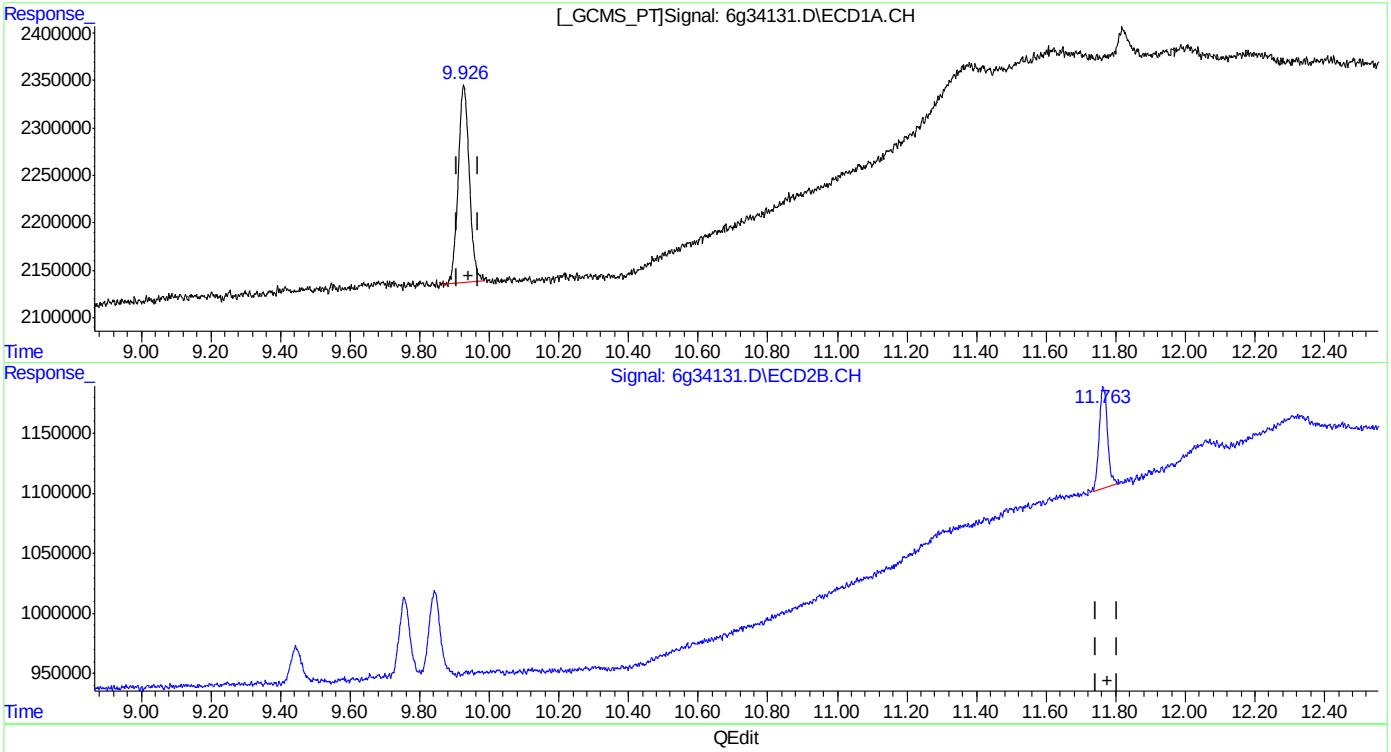
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) Decachlorobiphenyl (SAB)
9.926min 2.107PPB
response 4607200

(24) Decachlorobiphenyl #2 (SAB)
11.763min 2.277PPB m
response 1403506

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:42:34 2016

SGS ACCUTEST JC19473

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.314	1.585	141.2E6	45861524	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.988	2.478	12604959	4212366	5.051	4.970
Spiked Amount		40.000	Range	30 - 150	Recovery	= 12.63%#	12.43%#
24) SAB	Decachlor...	9.926	11.768	11331892	2647512	5.088	4.230m
Spiked Amount		40.000			Recovery	= 12.72%	10.58%
	Target Compounds						
3) A	alpha-BHC	2.501	3.183	14648824	5063872	4.680	4.878
4) MA	gamma-BHC	2.817	3.636	14067221	4844724	4.849	5.049
5) MA	Heptachlor	3.344	4.244	14577088	4888164	5.133	5.273
6) B	beta-BHC	2.896	3.728	7714959	2480528	5.381	5.217
7) B	delta-BHC	3.091	4.146	12751854	4306125	4.916	4.995
8) MB	Aldrin	3.697	4.722	13106990	4722588	4.895	5.254
9) B	Heptachlo...	4.446	5.603	12828644	4363078	5.049	5.176
10) B	gamma-Chl...	4.620	5.909	12654624	4270104	4.851	5.184
11) B	alpha-Chl...	4.802	6.154	12678021	4336659	4.947	5.255
12) A	Endosulfan I	4.985	6.252	12389510	4144533	4.737	5.151
13) B	4,4'-DDE	4.932	6.454	10073925	3476449	5.127	4.690
14) MA	Dieldrin	5.330	6.723	12016085	4266739	4.839	5.175
15) MA	Endrin	5.672	7.267	11105455	4047985	4.936	5.556
16) A	4,4'-DDD	5.820	7.486	8487607	3302013	4.964	4.858
17) B	Endosulfa...	6.012	7.651	10976603	3743835	4.867	4.972
18) MA	4,4'-DDT	6.270	8.066	9215147	2757576	5.110	6.117
19) B	Endrin Al...	6.684	8.279	9058405	2994191	4.970	4.940
20) B	Endosulfa...	7.422	8.795	9637621	3219291	4.970	5.093
21) A	Methoxychlor	7.137	9.445f	5612130	1635835	5.483	6.860m#
22)	Mirex	7.270	9.757	10560608	3364693	4.960	5.244
23) B	Endrin Ke...	7.895	9.840f	11298895	3852585	5.333	5.700

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.21

9

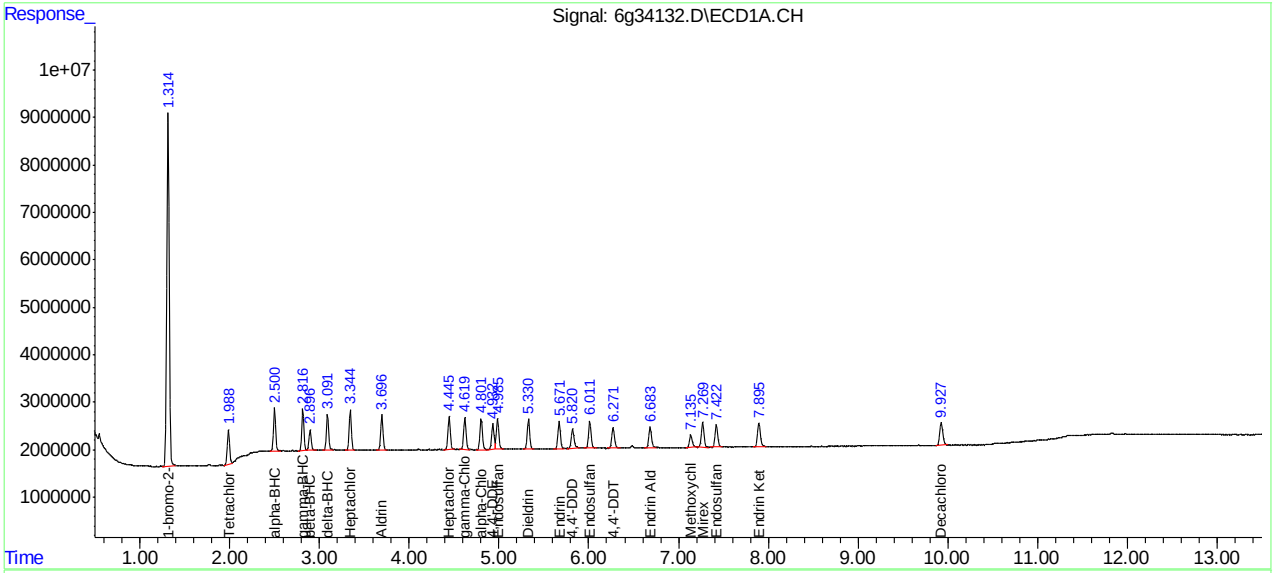
SGS ACCUTEST JC19473

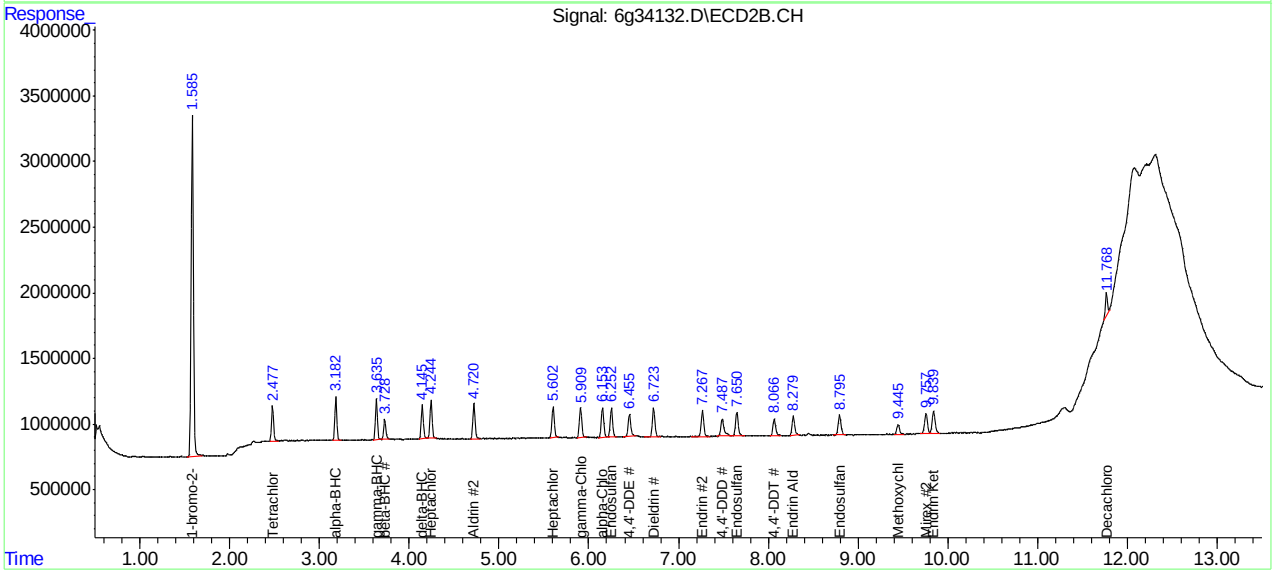
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Manual Integration Approval Summary

Sample Number:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34132.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 16:22	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

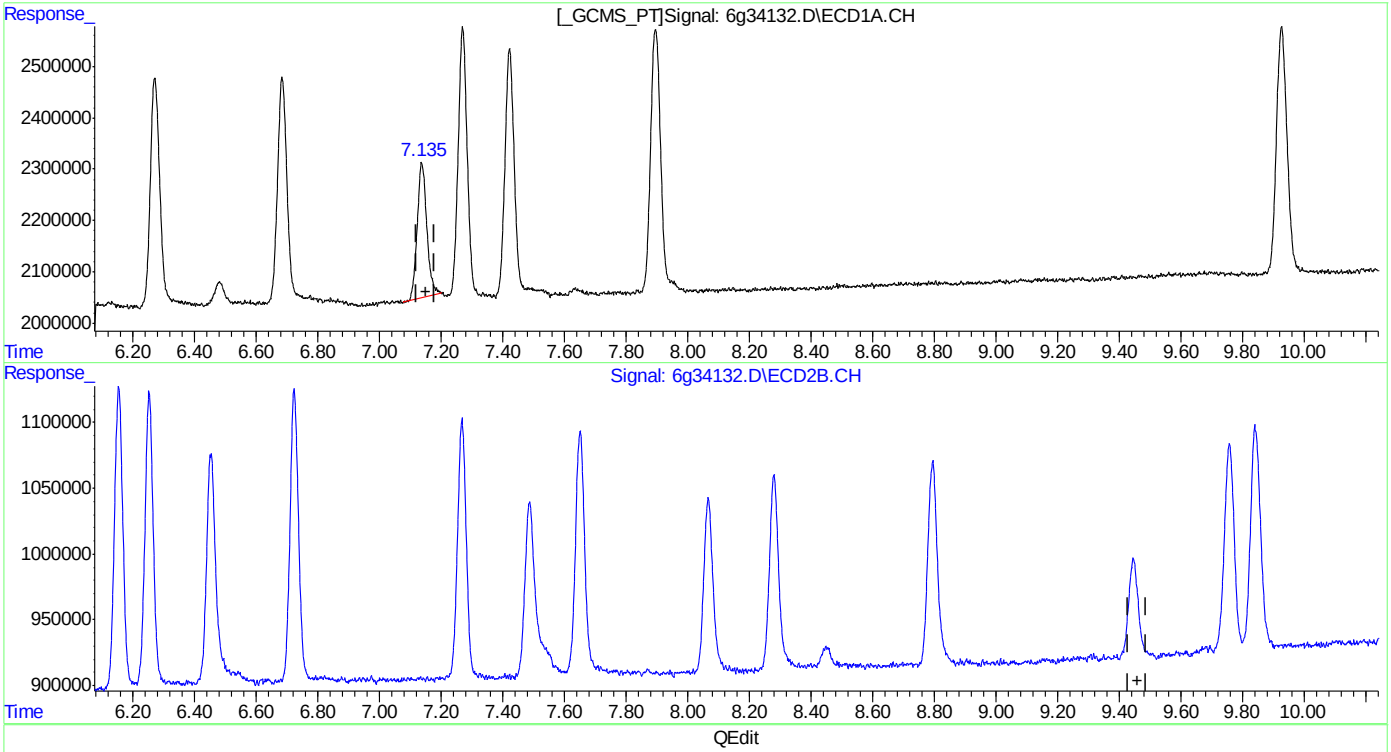
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methoxychlor	72-43-5	2	9.44	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	11.77	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) Methoxychlor (A)
7.137min 5.483PPB
response 5612130

(21) Methoxychlor #2 (A)
0.000min 0.000PPB
response 0

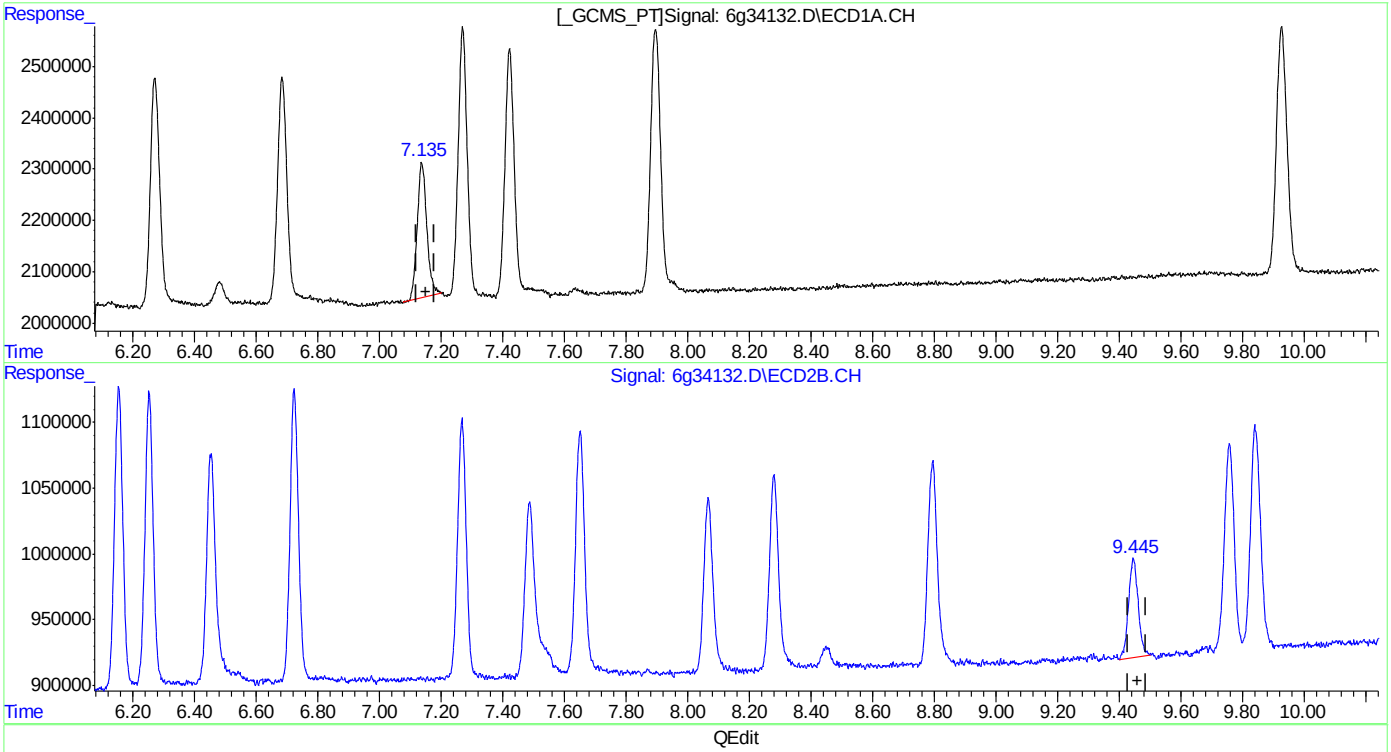
(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:36:47 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) Methoxychlor (A)
7.137min 5.483PPB
response 5612130

(21) Methoxychlor #2 (A)
9.445min 6.860PPB m
response 1635835

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:36:56 2016

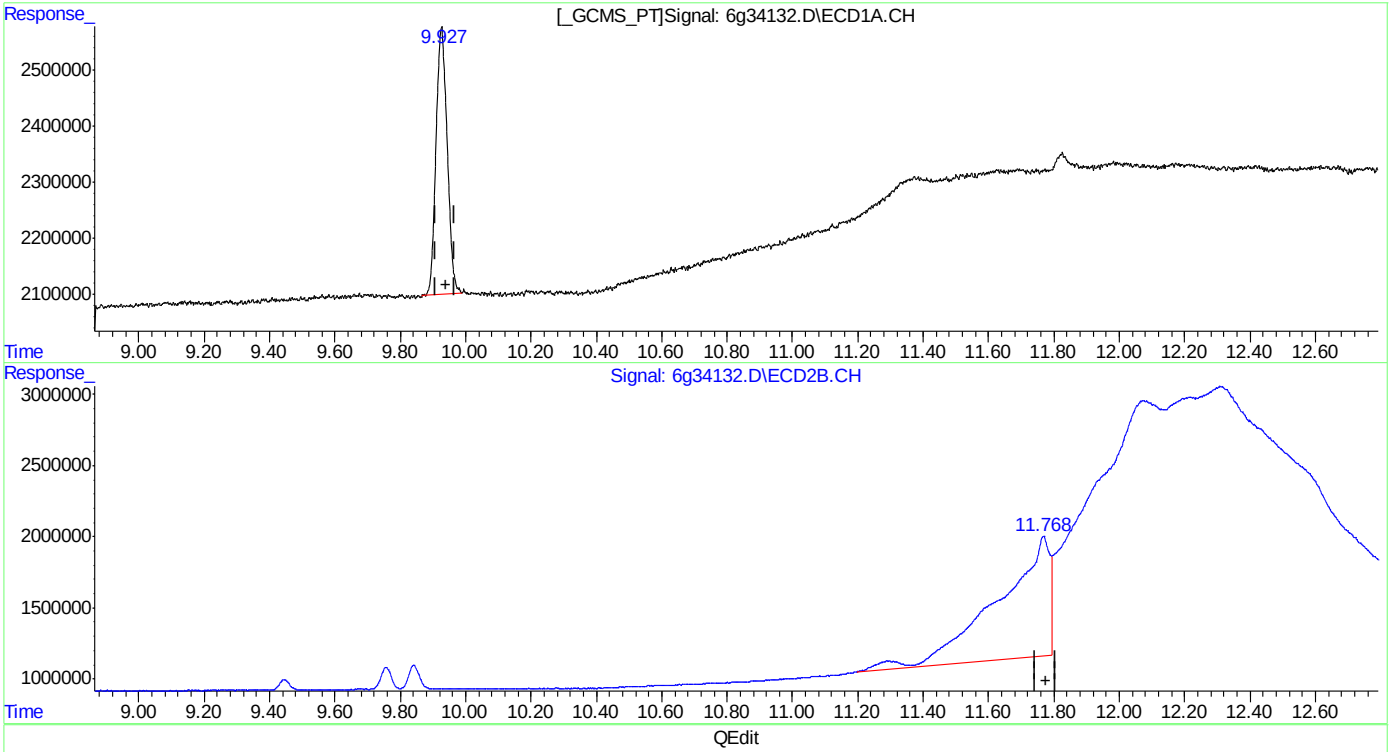
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(24) Decachlorobiphenyl (SAB)
9.926min 5.088PPB
response 11331892

(24) Decachlorobiphenyl #2 (SAB)
11.768min 147.393PPB
response 92250162

(+) = Expected Retention Time

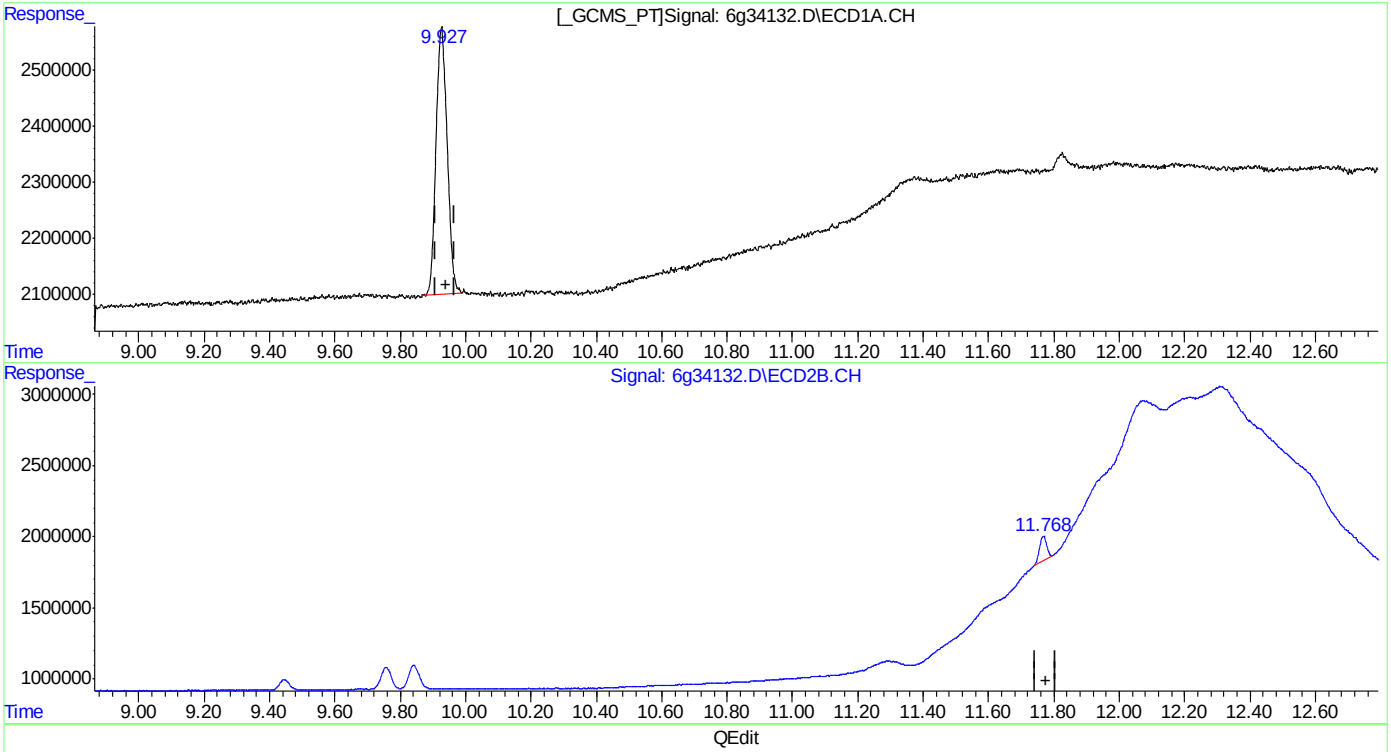
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(24) Decachlorobiphenyl (SAB)
9.926min 5.088PPB
response 11331892

(24) Decachlorobiphenyl #2 (SAB)
11.768min 4.230PPB m
response 2647512

(+) = Expected Retention Time

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34133.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:38 pm
Operator : dharas
Sample : ic987-10
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.313	1.584	140.5E6	45920602	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.987	2.478	24876594	8119893	10.018	9.568
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 25.05%#	23.92%#
24) SAB	Decachlor...	9.926	11.765	22366235	6242104	10.092	9.961
	Spiked Amount	40.000			Recovery	= 25.23%	24.90%
	Target Compounds						
3) A	alpha-BHC	2.500	3.183	30797792	10167663	9.888	9.782
4) MA	gamma-BHC	2.815	3.636	29160536	9589575	10.101	9.982
5) MA	Heptachlor	3.344	4.244	29643582	9822509	10.490	10.581
6) B	beta-BHC	2.896	3.728	14956880	4847980	10.483	10.183
7) B	delta-BHC	3.091	4.146	26291257	8798710	10.186	10.192
8) MB	Aldrin	3.696	4.721	26999664	9116635	10.134	10.130
9) B	Heptachlo...	4.445	5.603	25835552	8709773	10.218	10.320
10) B	gamma-Chl...	4.619	5.910	25772075	8425827	9.929	10.216
11) B	alpha-Chl...	4.802	6.153	25702060	8384411	10.078	10.146
12) A	Endosulfan I	4.985	6.252	25001437	8203458	9.606	10.183
13) B	4,4'-DDE	4.931	6.452	20284722	6680846	10.375	9.001
14) MA	Dieldrin	5.329	6.722	24383700	8179138	9.869	9.907
15) MA	Endrin	5.669	7.268	22499687	7361055	10.050	10.090
16) A	4,4'-DDD	5.819	7.486	17048800	6490184	10.021	9.535
17) B	Endosulfa...	6.012	7.651	21694944	7251064	9.668	9.617
18) MA	4,4'-DDT	6.271	8.067	18518529	5289508	10.320	11.718
19) B	Endrin Al...	6.683	8.278	18265453	5955880	10.072	9.815
20) B	Endosulfa...	7.421	8.794	19301744	6486062	10.002	10.248
21) A	Methoxychlor	7.135	9.446	11312265	3108135	11.108	13.018
22)	Mirex	7.269	9.758	20572192	6449510	9.710	10.039
23) B	Endrin Ke...	7.894	9.842	22629233	7375618	10.733	10.899

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

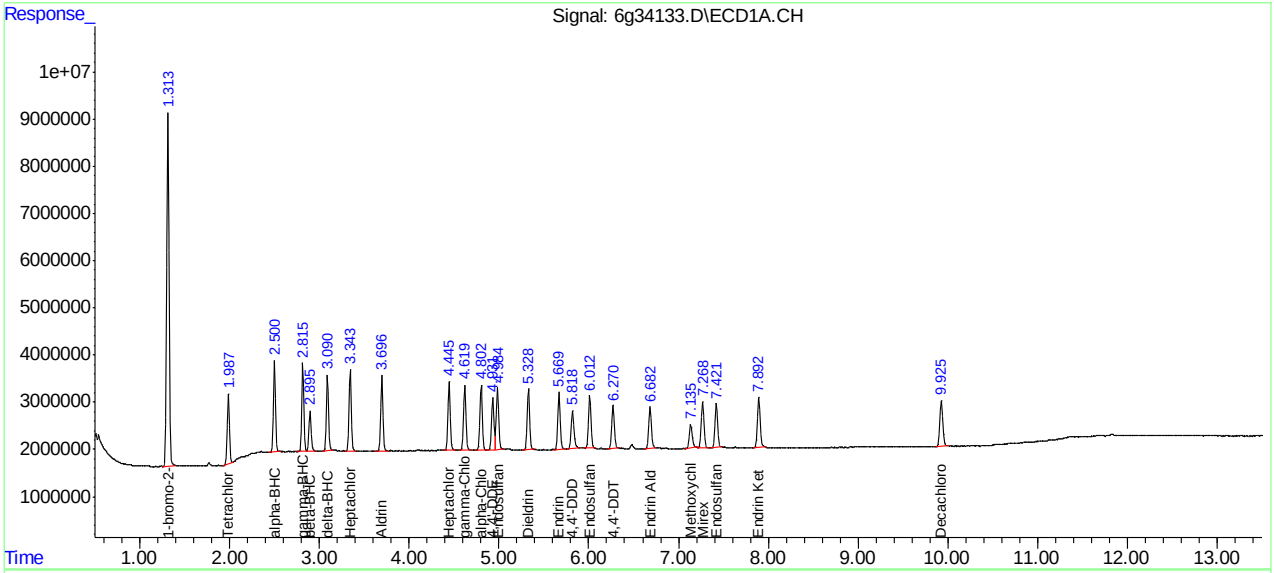
SGS ACCUTEST JC19473

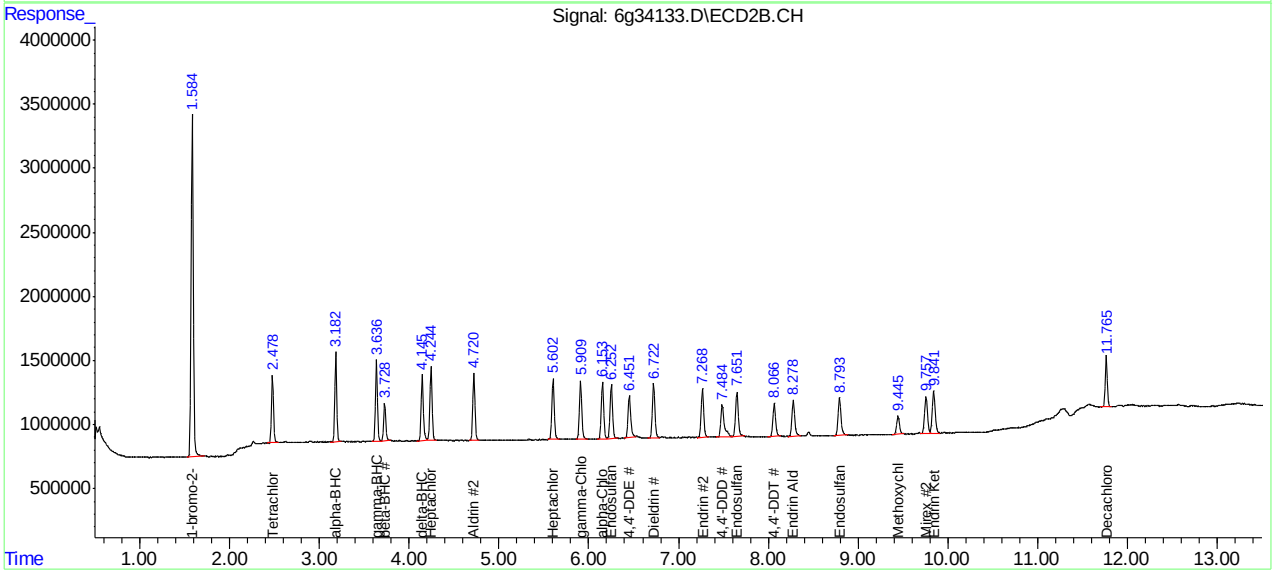
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34133.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:38 pm
Operator : dharas
Sample : ic987-10
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34134.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:55 pm
Operator : dharas
Sample : icc987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.315	1.585	144.2E6	47033284	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.988	2.479	63645253	20425732	24.970	23.499
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 62.42%	58.75%
24) SAB	Decachlor...	9.927	11.764	55812131	15912280	24.536	24.791
	Spiked Amount	40.000			Recovery	= 61.34%	61.98%
	Target Compounds						
3) A	alpha-BHC	2.501	3.183	84593859	26723168	26.461	25.101
4) MA	gamma-BHC	2.816	3.635	78582131	24936233	26.519	25.343
5) MA	Heptachlor	3.344	4.244	77647336	24523131	26.770	25.793
6) B	beta-BHC	2.895	3.728	38087675	11976851	26.007	24.561
7) B	delta-BHC	3.090	4.145	74464379	23208614	28.106	26.248
8) MB	Aldrin	3.696	4.721	71712233	23088257	26.222	25.047
9) B	Heptachlo...	4.445	5.603	67188984	21873984	25.889	25.305
10) B	gamma-Chl...	4.619	5.909	67637552	21033552	25.387	24.900
11) B	alpha-Chl...	4.801	6.153	67145569	20973298	25.652	24.780
12) A	Endosulfan I	4.984	6.252	65821217	20159813	24.640	24.433
13) B	4,4'-DDE	4.930	6.451	55200055	16712128	27.505	21.983
14) MA	Dieldrin	5.328	6.723	65244285	20507457	25.727	24.253
15) MA	Endrin	5.669	7.266	59357359	18498356	25.831	24.757
16) A	4,4'-DDD	5.819	7.485	45641463	16010720	26.137	22.966
17) B	Endosulfa...	6.010	7.649	57239557	18057776	24.851	23.383
18) MA	4,4'-DDT	6.269	8.066	50891758	14037689	27.629	30.363
19) B	Endrin Al...	6.682	8.279	47230230	14927948	25.373	24.018
20) B	Endosulfa...	7.419	8.793	50672464	15893200	25.582	24.517
21) A	Methoxychlor	7.135f	9.444f	31258519	8030389	29.903	32.838
22)	Mirex	7.268	9.756	52645396	15470703	24.209	23.512
23) B	Endrin Ke...	7.893	9.841f	61681398	18563884	28.503	26.782

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.23

9

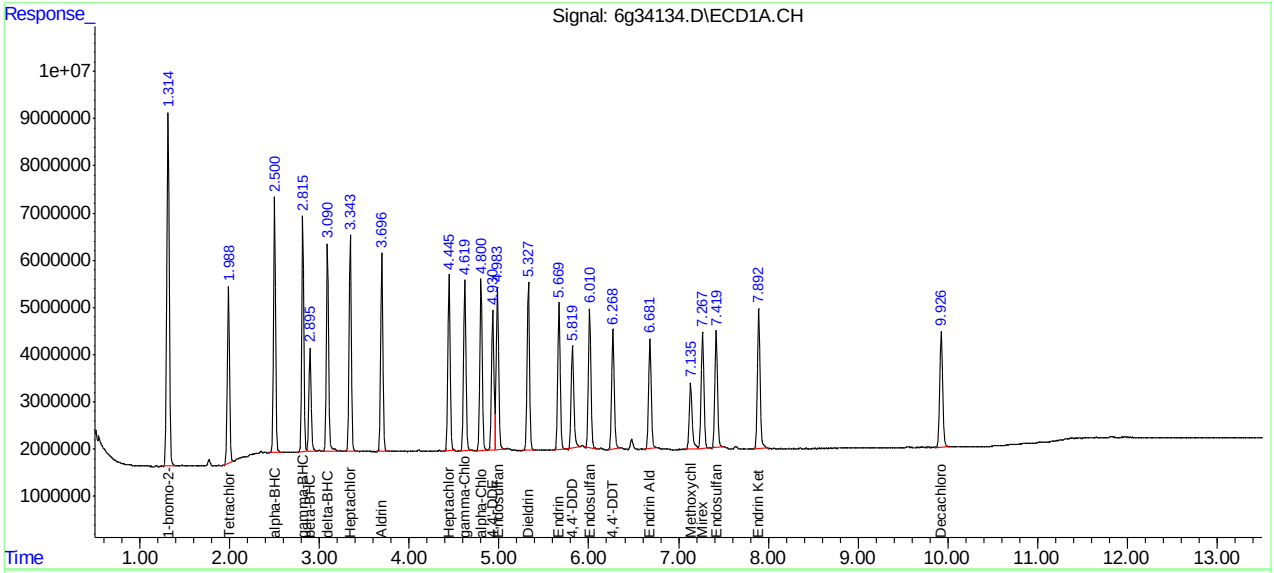
SGS ACCUTEST JC19473

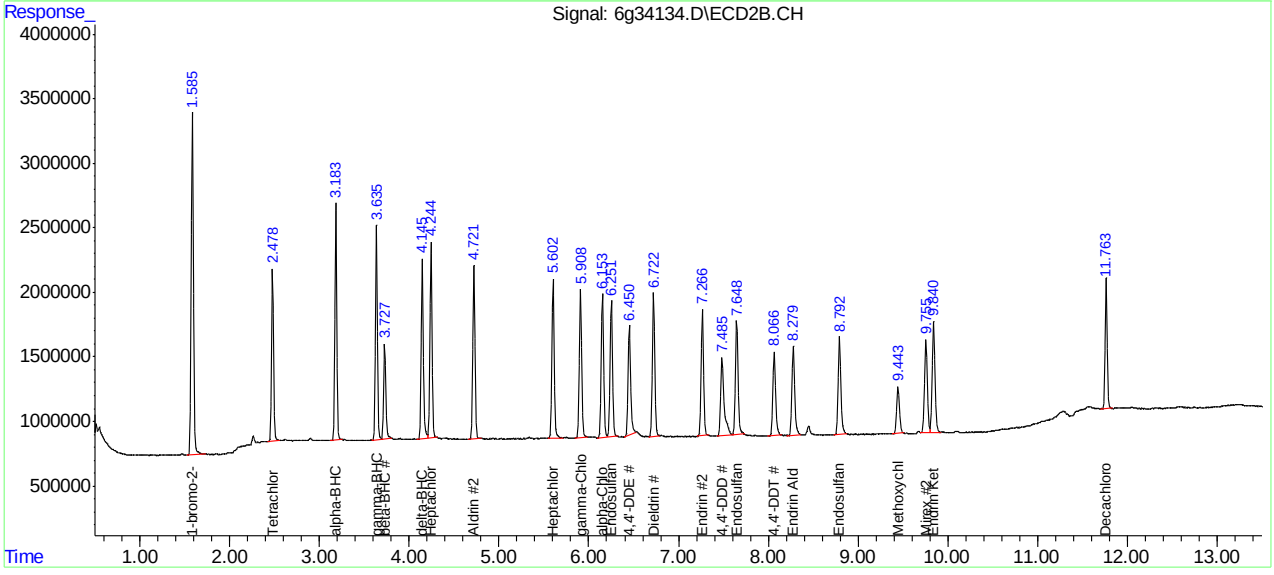
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34134.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:55 pm
Operator : dharas
Sample : icc987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:11 pm
Operator : dharas
Sample : ic987-50
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.314	1.585	142.7E6	46649119	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.988	2.478	128.5E6	40284945	50.949	46.728
	Spiked Amount 40.000 Range 30 - 150 Recovery = 127.37% 116.82%						
24) SAB	Decachlor...	9.925	11.763	108.7E6	31076249	48.273	48.814
	Spiked Amount 40.000 Recovery = 120.68% 122.04%						
	Target Compounds						
3) A	alpha-BHC	2.501	3.183	182.7E6	55587963	57.741	52.643
4) MA	gamma-BHC	2.816	3.636	166.5E6	51304864	56.774	52.570
5) MA	Heptachlor	3.343	4.244	161.4E6	50151025	56.220	53.182
6) B	beta-BHC	2.895	3.727	75958143	24516481	52.404	50.690
7) B	delta-BHC	3.090	4.145	160.4E6	48099314	61.164	54.847
8) MB	Aldrin	3.696	4.721	150.9E6	46332889	55.762	50.677
9) B	Heptachlo...	4.444	5.602	138.5E6	43160248	53.903	50.341
10) B	gamma-Chl...	4.619	5.909	140.3E6	42029500	53.189	50.166
11) B	alpha-Chl...	4.801	6.153	137.8E6	41514883	53.193	49.455
12) A	Endosulfan I	4.984	6.252	135.3E6	40039193	51.179	48.926
13) B	4,4'-DDE	4.931	6.452	117.7E6	37863127	59.271	50.214
14) MA	Dieldrin	5.328	6.722	136.4E6	41112386	54.346	49.021
15) MA	Endrin	5.669	7.266	123.5E6	37204386	54.308	50.202
16) A	4,4'-DDD	5.817	7.485	99644782	32810805	57.654	47.452
17) B	Endosulfa...	6.011	7.649	121.6E6	37437820	53.336	48.878
18) MA	4,4'-DDT	6.271	8.065	106.4E6	29173841	58.383	63.623
19) B	Endrin Al...	6.682	8.278	96135294	30002664	52.182	48.669
20) B	Endosulfa...	7.420	8.792f	103.7E6	31655587	52.894	49.235
21) A	Methoxychlor	7.134f	9.443f	62221581	16358936	60.141	67.447
22)	Mirex	7.267	9.756	102.6E6	29870142	47.691	45.770
23) B	Endrin Ke...	7.894	9.841f	127.4E6	37439358	59.481	54.458

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.24

9

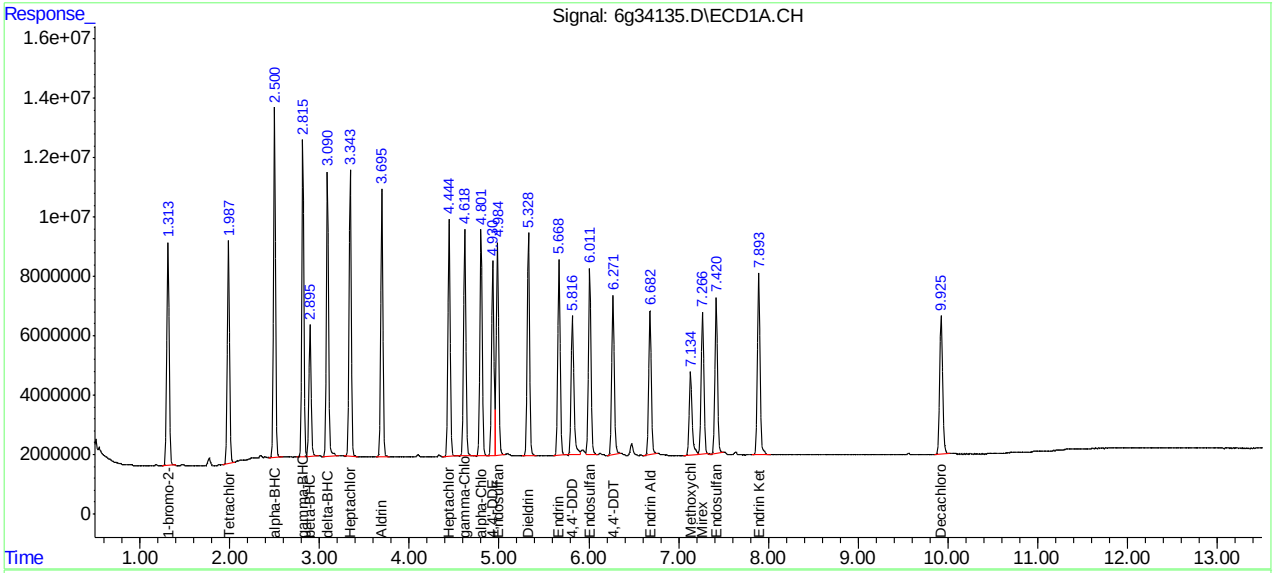
SGS ACCUTEST JC19473

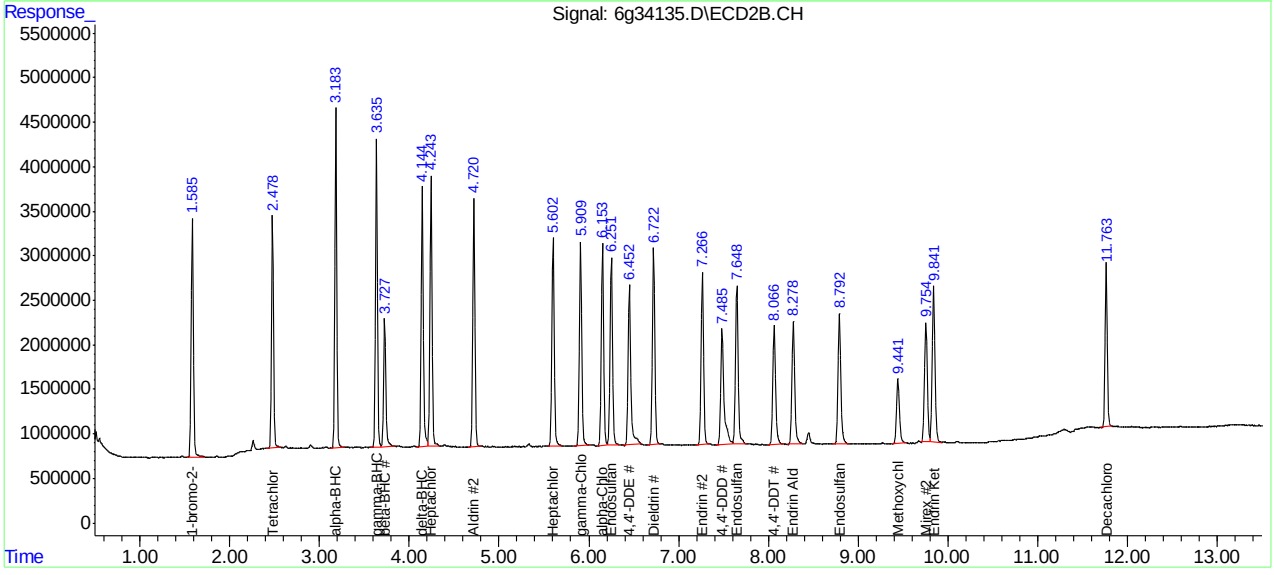
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:11 pm
Operator : dharas
Sample : ic987-50
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

6G34136.D

Manual Integrations APPROVED (compounds with "m" flag)

Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:27 pm
Operator : dharas
Sample : ic987-75
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.313	1.584	142.3E6	46534682	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.987	2.478	196.0E6	61034979	77.960	70.971
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	194.90%#	177.43%#
24) SAB	Decachlor...	9.924	11.764	161.9E6	45025212	72.177	70.899
	Spiked Amount 40.000			Recovery	=	180.44%	177.25%
	Target Compounds						
3) A	alpha-BHC	2.501	3.183	287.2E6	86390406	91.093	82.014
4) MA	gamma-BHC	2.816	3.636	259.7E6	79013987	88.861	81.162
5) MA	Heptachlor	3.343	4.244	249.5E6	75927971	87.193	80.715
6) B	beta-BHC	2.895	3.728	114.2E6	36350302	79.034	75.343
7) B	delta-BHC	3.089	4.146	244.9E6	74588741	93.731	85.262
8) MB	Aldrin	3.695	4.721	235.4E6	70722867	87.268	77.544
9) B	Heptachlo...	4.444	5.603	212.7E6	65014462	83.094	76.018
10) B	gamma-Chl...	4.619	5.909	216.5E6	63493244	82.383	75.971
11) B	alpha-Chl...	4.800	6.153	211.9E6	62505590	82.087	74.643
12) A	Endosulfan I	4.984	6.251	210.1E6	60303594	79.727	73.870
13) B	4,4'-DDE	4.931	6.451	184.7E6	55949391	93.299	74.382m
14) MA	Dieldrin	5.327	6.723	212.9E6	62341957	85.094	74.518
15) MA	Endrin	5.669	7.266	191.4E6	56468294	84.449	76.383
16) A	4,4'-DDD	5.818	7.484f	153.6E6	49146684	89.174	71.253
17) B	Endosulfa...	6.011	7.650	185.7E6	56464399	81.741	73.899
18) MA	4,4'-DDT	6.270	8.066	166.3E6	44795721	91.513	97.931
19) B	Endrin Al...	6.682	8.277	147.3E6	45061219	80.230	73.276
20) B	Endosulfa...	7.420	8.793	159.4E6	47550936	81.583	74.139
21) A	Methoxychlor	7.134f	9.445f	93942612	24830275	91.112	102.626
22)	Mirex	7.268	9.756	153.4E6	44250941	71.508	67.973
23) B	Endrin Ke...	7.894	9.841f	194.7E6	56960523	91.227	83.057

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.25

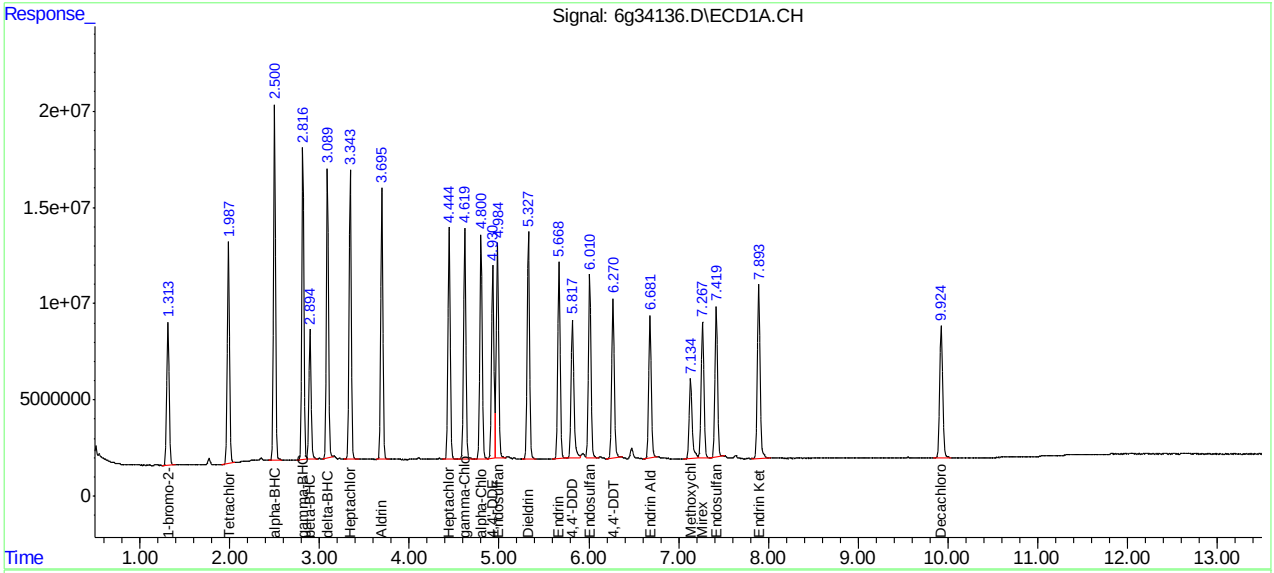
9

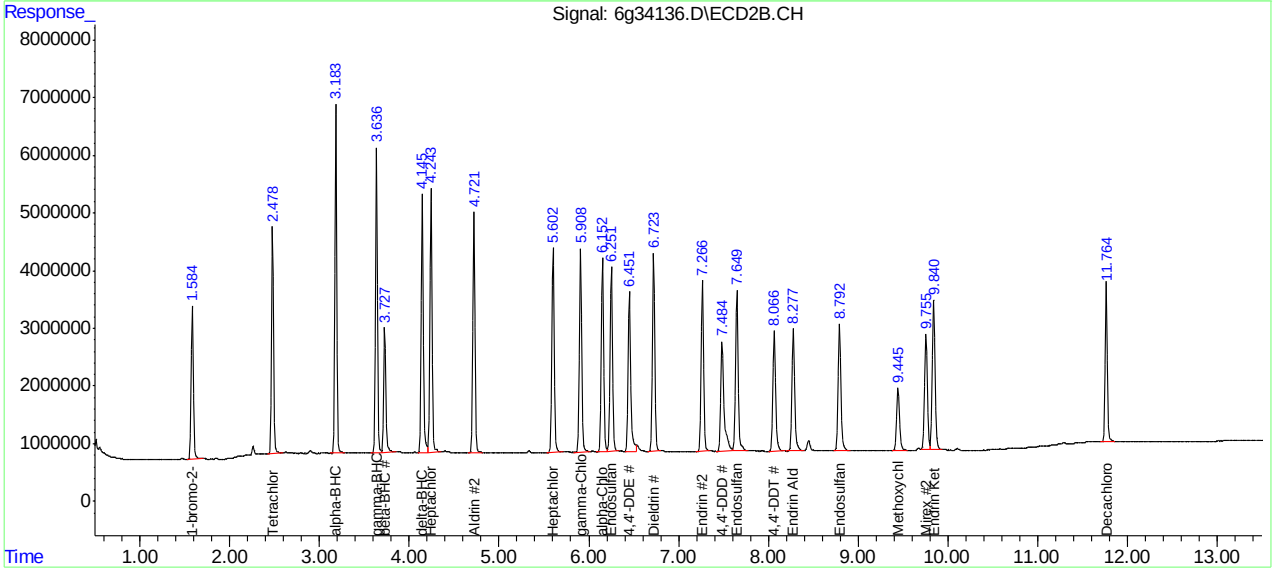
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:27 pm
Operator : dharas
Sample : ic987-75
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Manual Integration Approval Summary

Sample Number:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34136.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 17:27	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

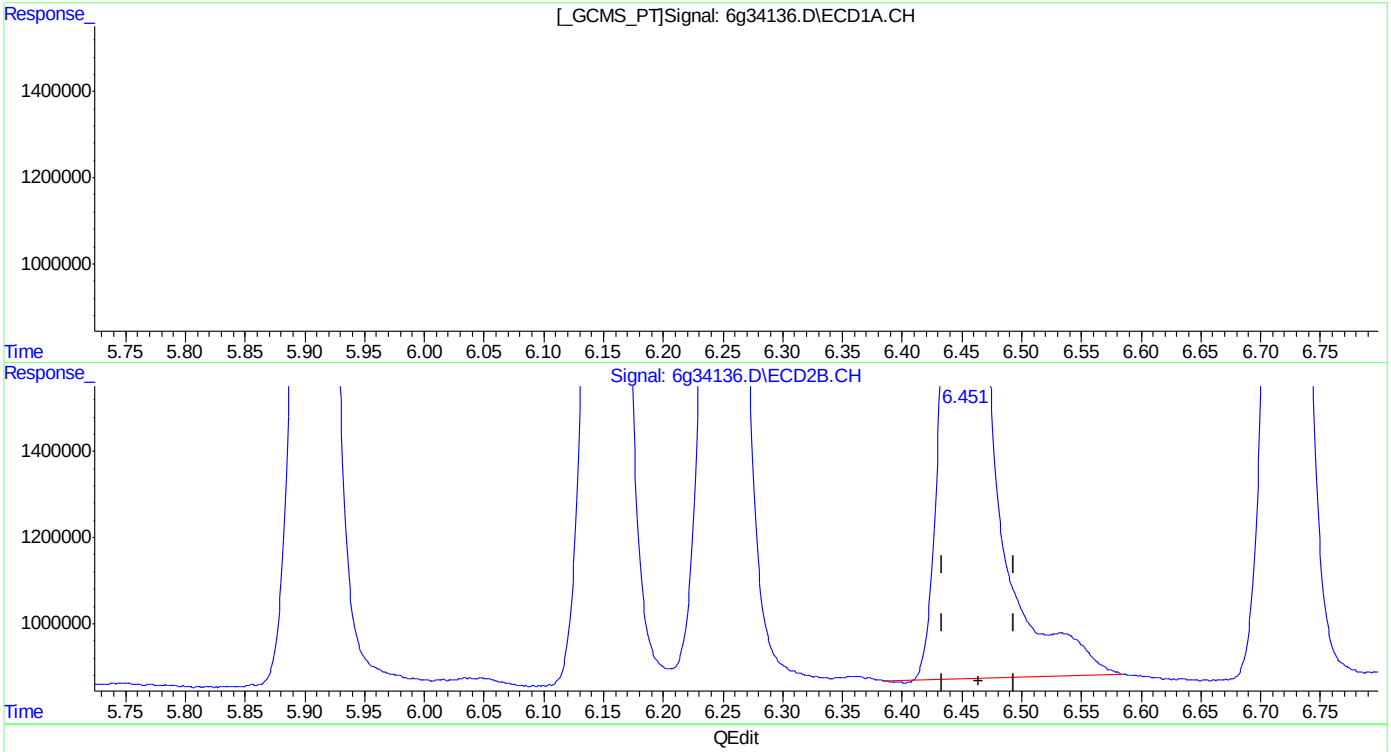
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	2	6.45	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:27 pm
Operator : dharas
Sample : ic987-75
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:24:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(13) 4,4'-DDE (B)
4.931min 93.299PPB
response 184683755

(13) 4,4'-DDE #2 (B)
6.451min 76.395PPB
response 57463273

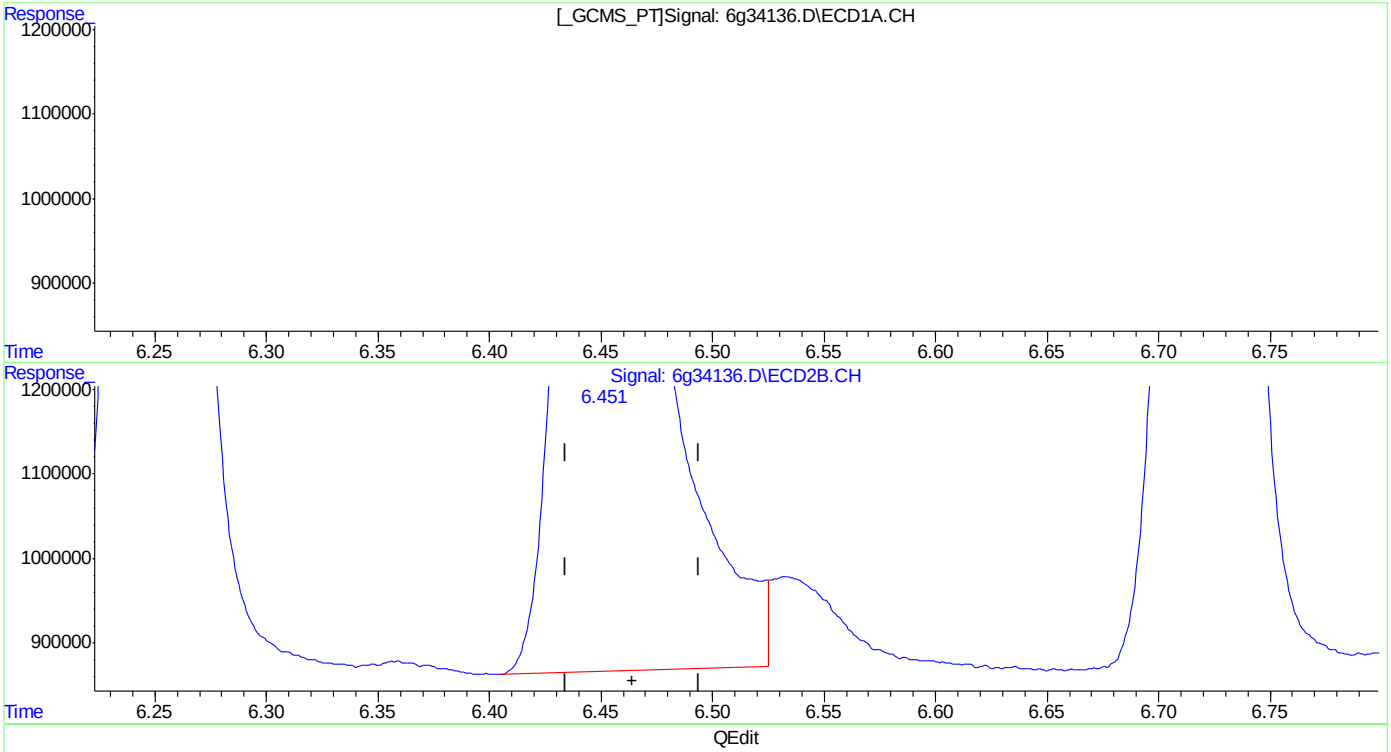
(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:25:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:27 pm
Operator : dharas
Sample : ic987-75
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:24:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(13) 4,4'-DDE (B)
4.931min 93.299PPB
response 184683755

(13) 4,4'-DDE #2 (B)
6.451min 74.382PPB m
response 55949391

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:25:34 2016

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:44 pm
Operator : dharas
Sample : ic987-100
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.313	1.584	144.2E6	47061020	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.987	2.478	272.5E6	83192568	106.915	95.654
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 267.29%#	239.14%#
24) SAB	Decachlor...	9.925	11.764	218.5E6	61817376	96.056	96.252
	Spiked Amount	40.000			Recovery	= 240.14%	240.63%
	Target Compounds						
3) A	alpha-BHC	2.500	3.183	405.7E6	120.6E6	126.925	113.257
4) MA	gamma-BHC	2.814	3.635	363.8E6	109.3E6	122.801	111.008
5) MA	Heptachlor	3.343	4.244	347.0E6	103.8E6	119.655	109.162
6) B	beta-BHC	2.894	3.727	155.8E6	49110274	106.406	100.652
7) B	delta-BHC	3.089	4.145	345.0E6	103.0E6	130.262	116.398
8) MB	Aldrin	3.695	4.721	328.0E6	97370488	119.971	105.568
9) B	Heptachlo...	4.444	5.603	293.6E6	88909536	113.171	102.795
10) B	gamma-Chl...	4.618	5.909	299.9E6	86940726	112.581	102.863
11) B	alpha-Chl...	4.800	6.152	292.8E6	85054640	111.873	100.435
12) A	Endosulfan I	4.983	6.251	288.9E6	81968430	108.152	99.285
13) B	4,4'-DDE	4.931	6.452	258.4E6	77237419	128.766	101.535m
14) MA	Dieldrin	5.328	6.723	295.4E6	85669631	116.508	101.256
15) MA	Endrin	5.667	7.267	264.1E6	77041181	114.962	103.046
16) A	4,4'-DDD	5.818	7.484	214.3E6	66667046	122.739	95.573
17) B	Endosulfa...	6.011	7.649	257.1E6	76718084	111.662	99.284
18) MA	4,4'-DDT	6.270	8.066	237.9E6	61734502	129.179	133.453
19) B	Endrin Al...	6.683	8.277	208.9E6	60964018	112.232	98.027
20) B	Endosulfa...	7.419	8.792f	220.0E6	64603260	111.082	99.599
21) A	Methoxychlor	7.134f	9.444f	127.3E6	33797951	121.808	138.128
22)	Mirex	7.267	9.756	206.5E6	58928864	94.978	89.507
23) B	Endrin Ke...	7.893	9.841f	267.8E6	77889496	123.785	112.304

SemiQuant Compounds - Not Calibrated on this Instrument

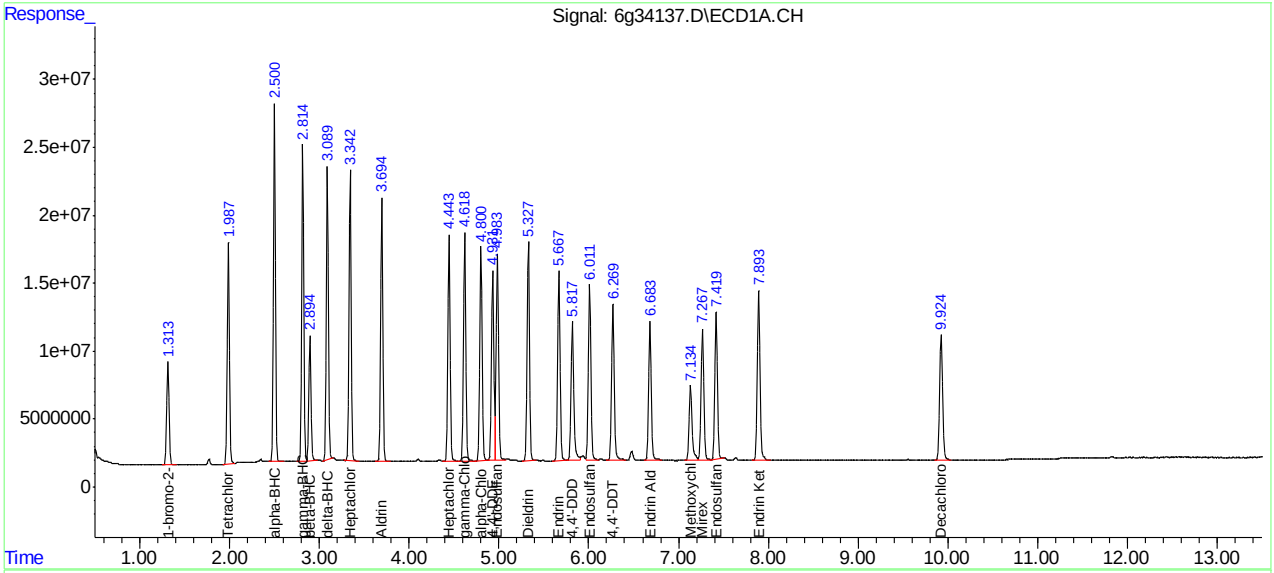
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

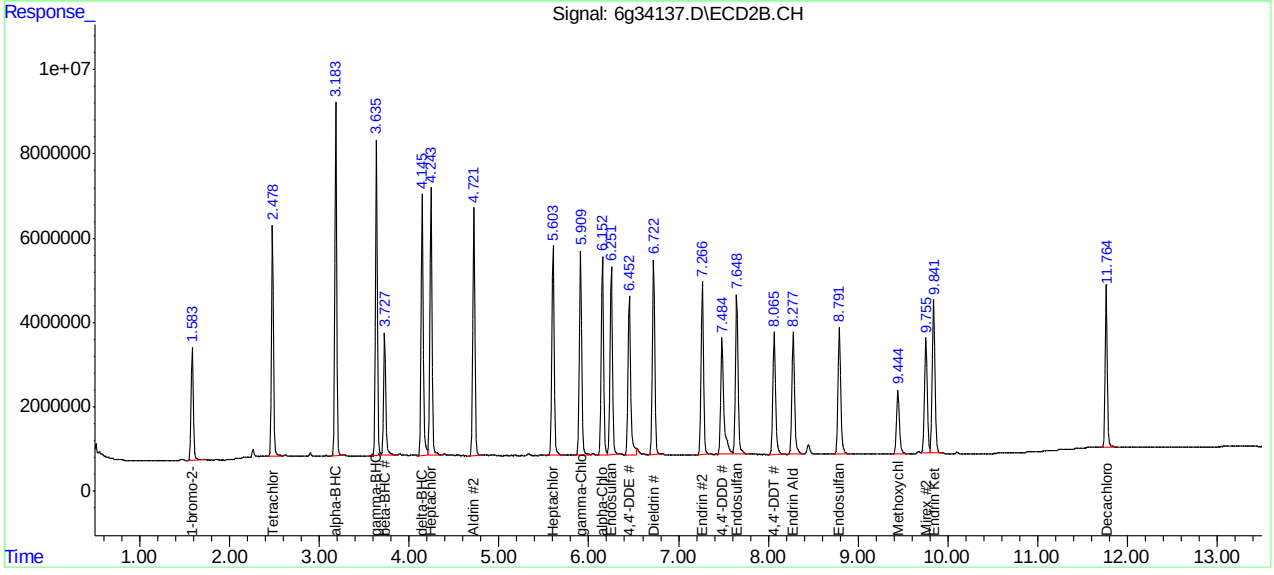
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:44 pm
Operator : dharas
Sample : ic987-100
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Manual Integration Approval Summary

Sample Number:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34137.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 17:44	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

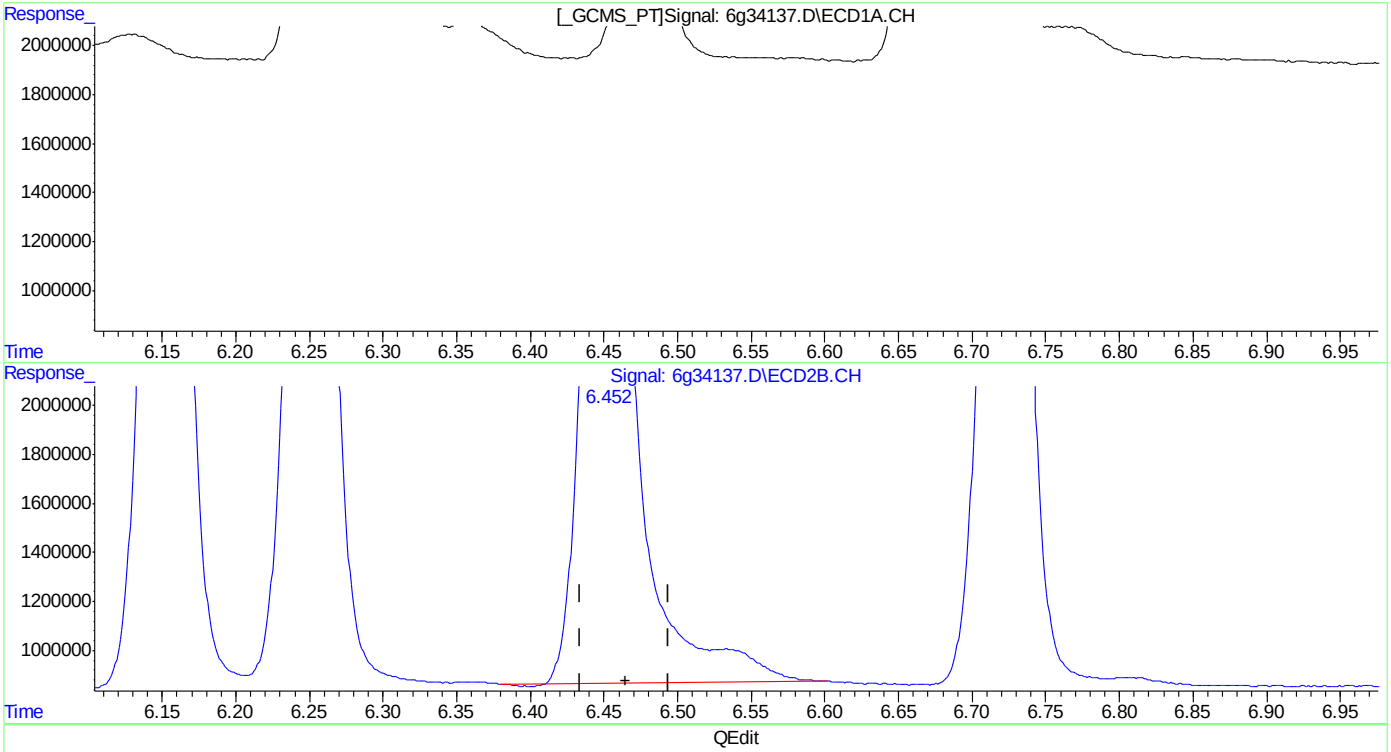
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	2	6.45	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:44 pm
Operator : dharas
Sample : ic987-100
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:25:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(13) 4,4'-DDE (B)
4.931min 128.766PPB
response 258364552

(13) 4,4'-DDE #2 (B)
6.452min 103.914PPB
response 79046664

(+) = Expected Retention Time

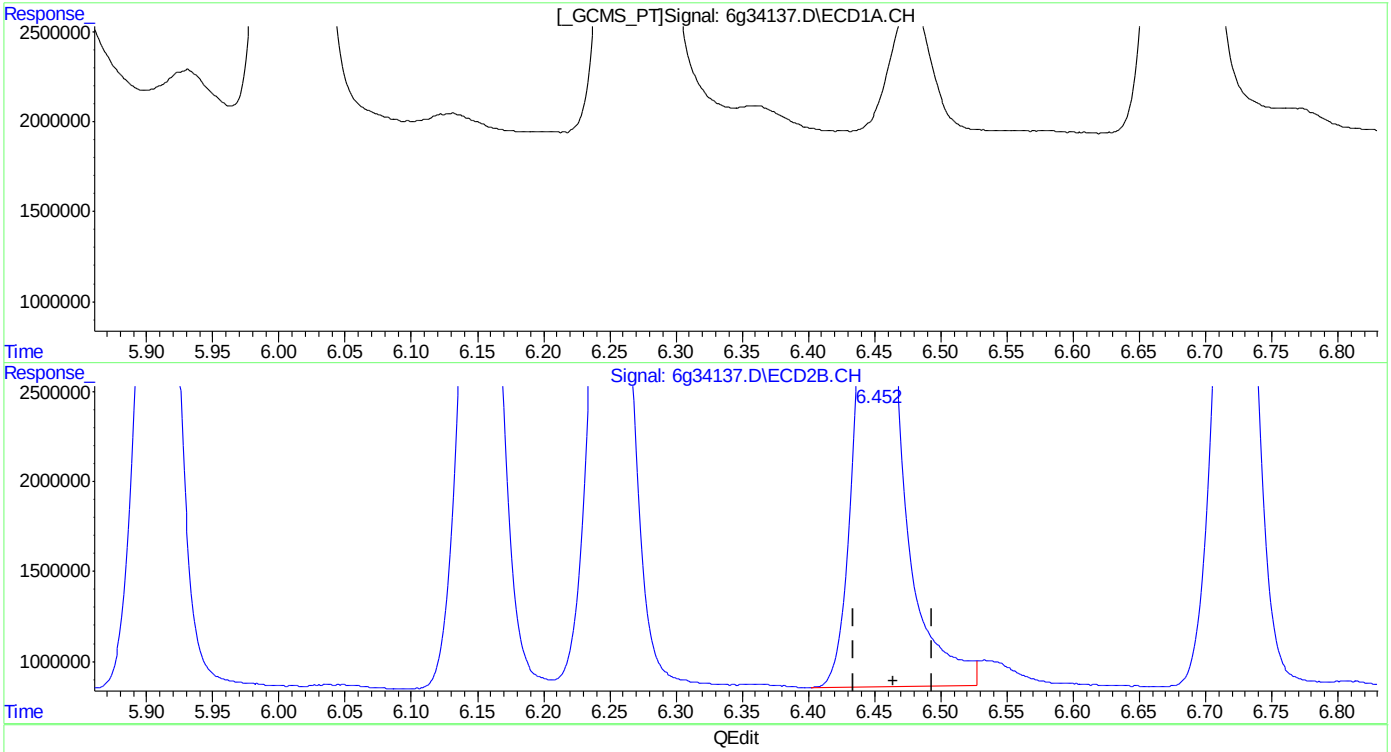
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:44 pm
Operator : dharas
Sample : ic987-100
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:25:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(13) 4,4'-DDE (B)
4.931min 128.766PPB
response 258364552

(13) 4,4'-DDE #2 (B)
6.452min 101.535PPB m
response 77237419

(+) = Expected Retention Time

SGS ACCUTEST JC19473

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:00 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:20:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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						
31) I	1-bromo-2...	1.313	1.584	141.3E6	46235840	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
32)	Chlordane...	3.248	4.035	43632507	14394923	536.976	540.471
33)	Chlordane...	3.846	4.933	57942819	17415921	527.490	558.186
34)	Chlordane...	4.619	5.908	185.4E6	52343416	527.100	565.289
35)	Chlordane...	4.793	6.152	290.8E6	87553858	519.746	550.227m
36)	Chlordane...	5.916	7.734	45769339	13981389	536.773	553.249
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

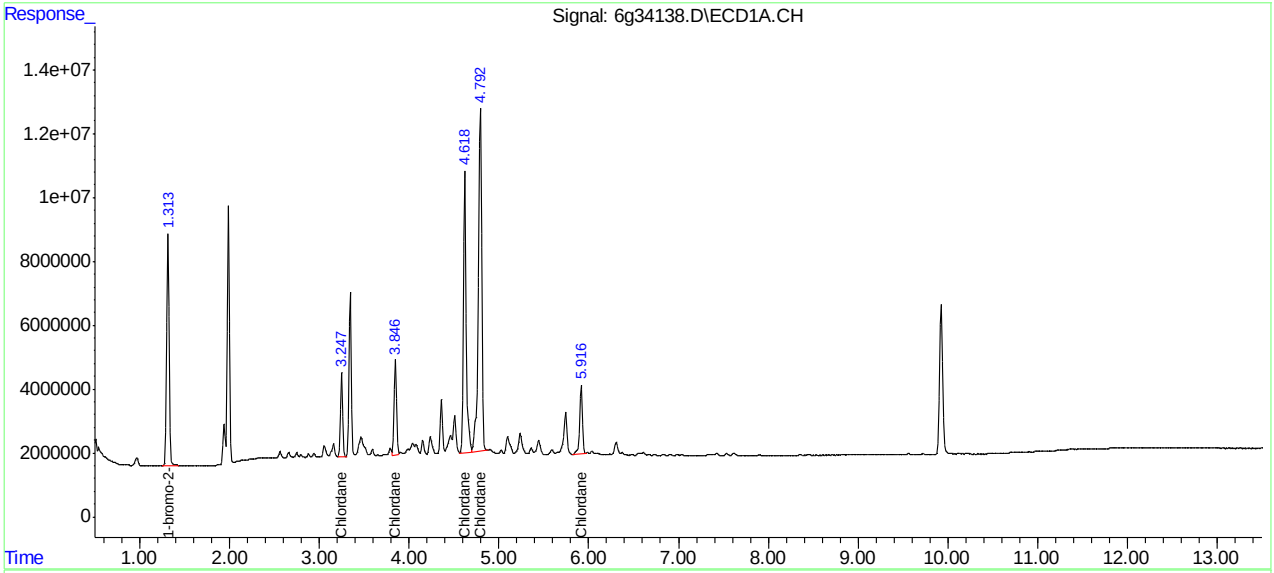
9.6.27
9

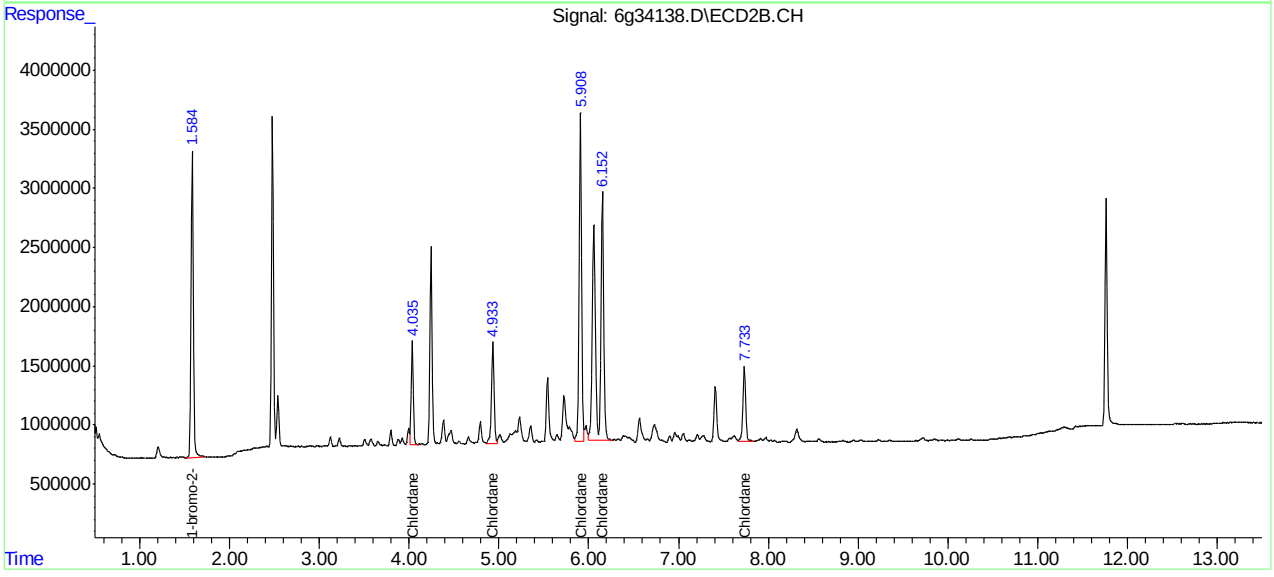
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:00 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:20:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34138.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 18:00	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

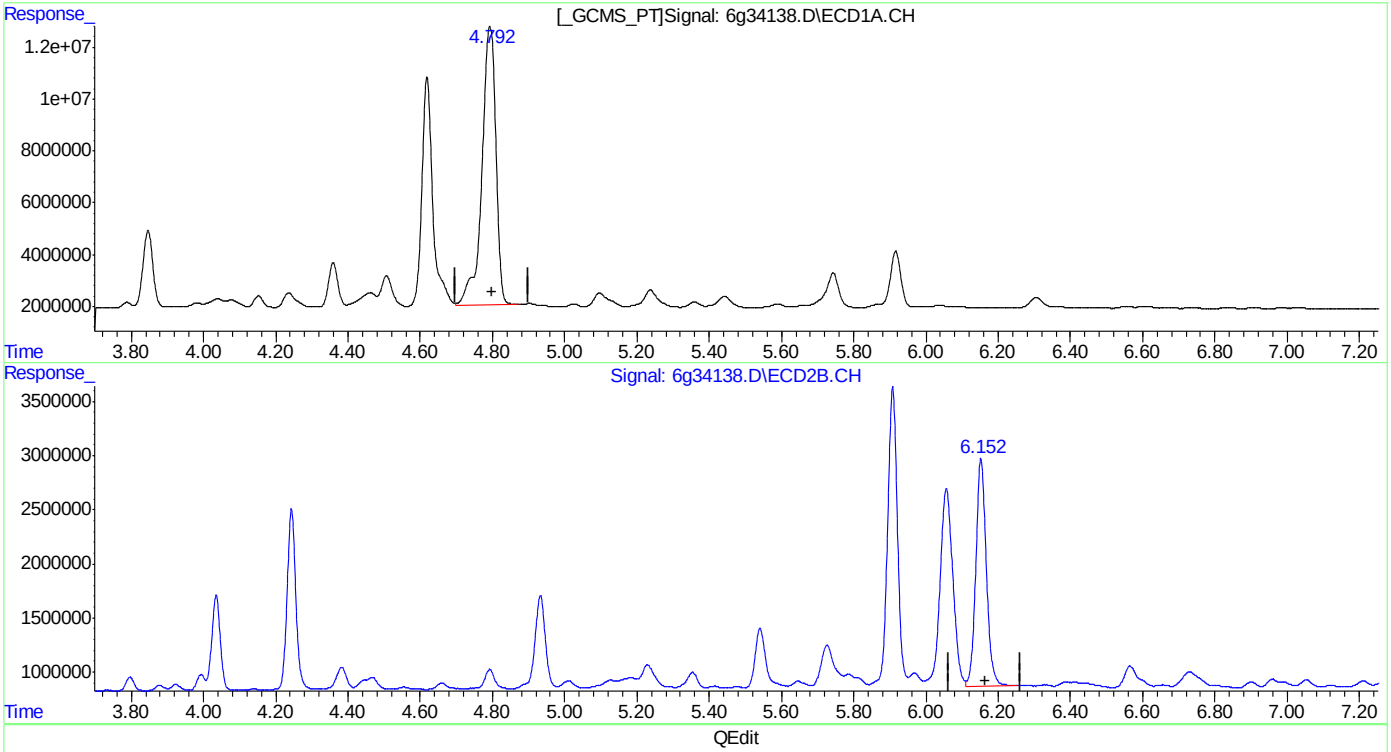
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	6.15	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:00 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:57:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(35) Chlordane {D}
4.793min 519.746PPB
response 290776008

(35) Chlordane {D} #2
6.152min 267.305PPB
response 42534341

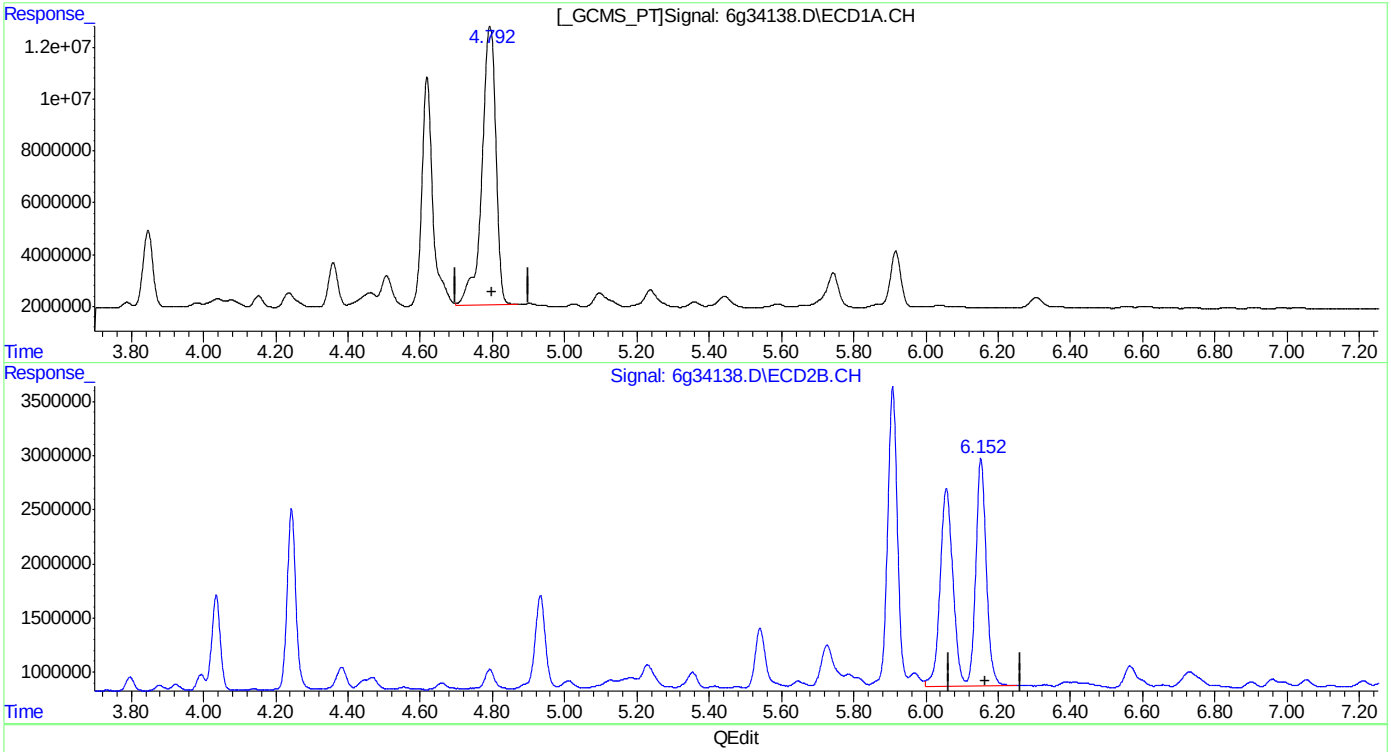
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:00 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:57:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(35) Chlordane {D}
4.793min 519.746PPB
response 290776008

(35) Chlordane {D} #2
6.152min 550.227PPB m
response 87553858

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:58:50 2016

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:17 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:21:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.314	1.584	145.3E6	47702945	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
26) L8	Toxaphene{A}	5.337	6.690	19675744	6930166	478.099	595.711	
27) L8	Toxaphene{B}	5.731	7.617	41619408	12190780	531.705	784.503	#
28) L8	Toxaphene{C}	5.999	7.796	62803296	18739048	548.104	699.346	#
29) L8	Toxaphene{D}	6.560	8.280	35573856	12374350	424.850	688.687	#
30) L8	Toxaphene{E}	7.255	9.261	39819050	10533999	580.669	507.727	
	SemiQuant Compounds - Not Calibrated on this Instrument							

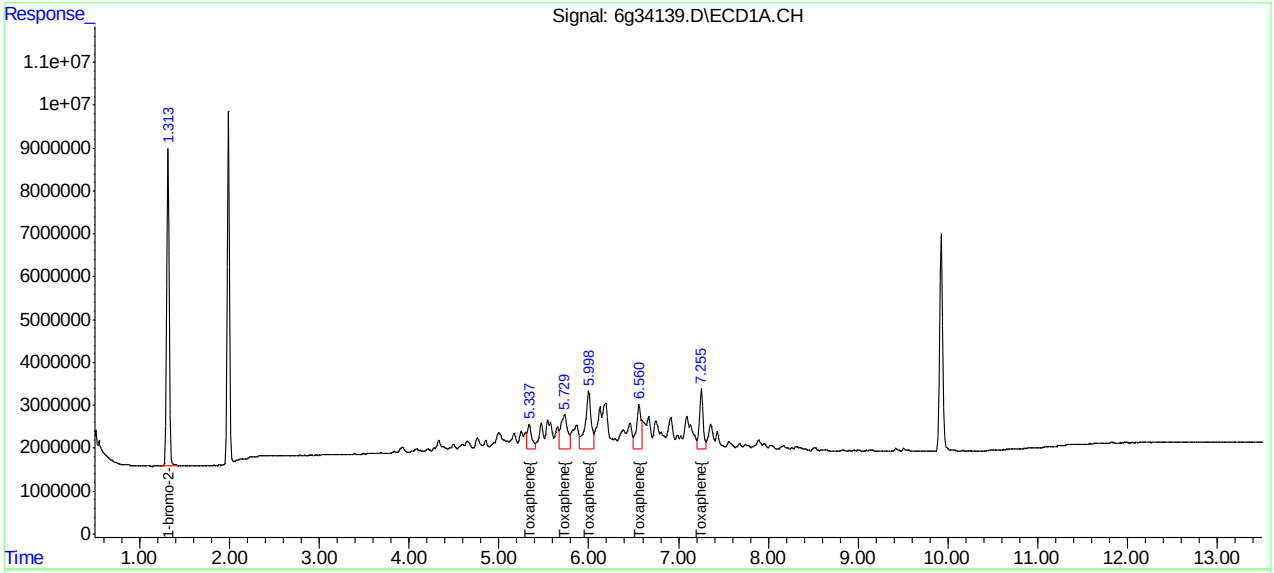
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

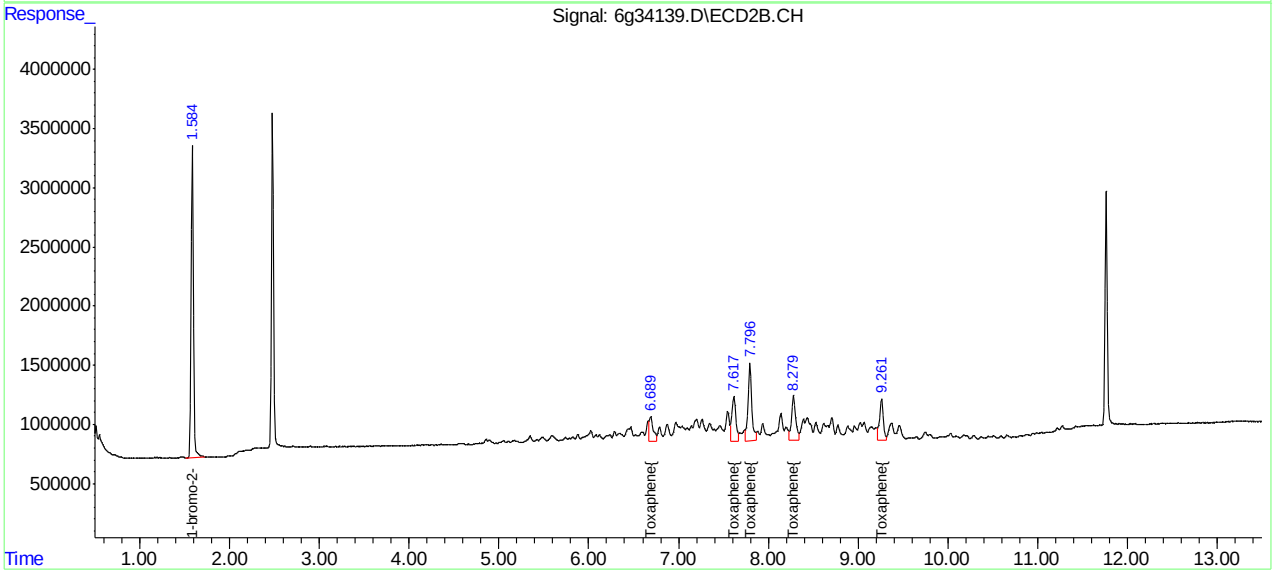
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:17 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:21:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34140.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:33 pm
Operator : dharas
Sample : icv987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:39:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.314	1.585	143.3E6	46907288	50.000	50.000
25) I	1-bromo-2...	1.314	1.585	143.3E6	46907288	50.000	50.000
31) I	1-bromo-2...	1.314	1.585	143.3E6	46907288	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.988	2.478	62613270	20284749	23.835	23.936
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	59.59%	59.84%
24)	SAB Decachlor...	9.925	11.763	55982390	16579682	24.508	26.020
	Spiked Amount 40.000			Recovery	=	61.27%	65.05%
	Target Compounds						
3) A	alpha-BHC	2.500	3.183	79807546	25388616	23.566	22.995
4) MA	gamma-BHC	2.815	3.635	74989675	23788475	23.785	23.011
5) MA	Heptachlor	3.343	4.243	74379160	24001192	23.502	22.973
6) B	beta-BHC	2.896	3.727	36353972	11460022	23.490	22.753
7) B	delta-BHC	3.090	4.145	74876837	23152742	25.483	24.033
8) MB	Aldrin	3.695	4.721	68045936	22050506	23.280	22.698
9) B	Heptachlo...	4.444	5.602	64434942	21010231	23.545	23.203
10) B	gamma-Chl...	4.619	5.908	66180386	20595481	24.031	23.267
11) B	alpha-Chl...	4.802	6.152	64799028	20216502	23.708	22.989
12) A	Endosulfan I	4.984	6.251	62820581	19279971	23.281	22.567
13) B	4,4'-DDE	4.932	6.452	51425811	18223836	22.705	24.032
14) MA	Dieldrin	5.328	6.722	63166266	19889363	23.675	22.791
15) MA	Endrin	5.669	7.265	58737946	18090189	24.269	22.816
16) A	4,4'-DDD	5.820	7.486	45643277	15847702	23.837	24.216
17) B	Endosulfa...	6.011	7.649	56551622	18362029	23.682	23.678
18) MA	4,4'-DDT	6.271	8.067	49750841	13465744	23.887	22.669
19) B	Endrin Al...	6.683	8.278	49719390	15149595	25.545	24.095
20) B	Endosulfa...	7.420	8.793	51892156	15897904	24.744	23.296
21) A	Methoxychlor	7.136	9.444f	29611559	7915310	23.721	24.184
23) B	Endrin Ke...	7.895	9.841f	60928331	18412632	24.431	23.084

SemiQuant Compounds - Not Calibrated on this Instrument

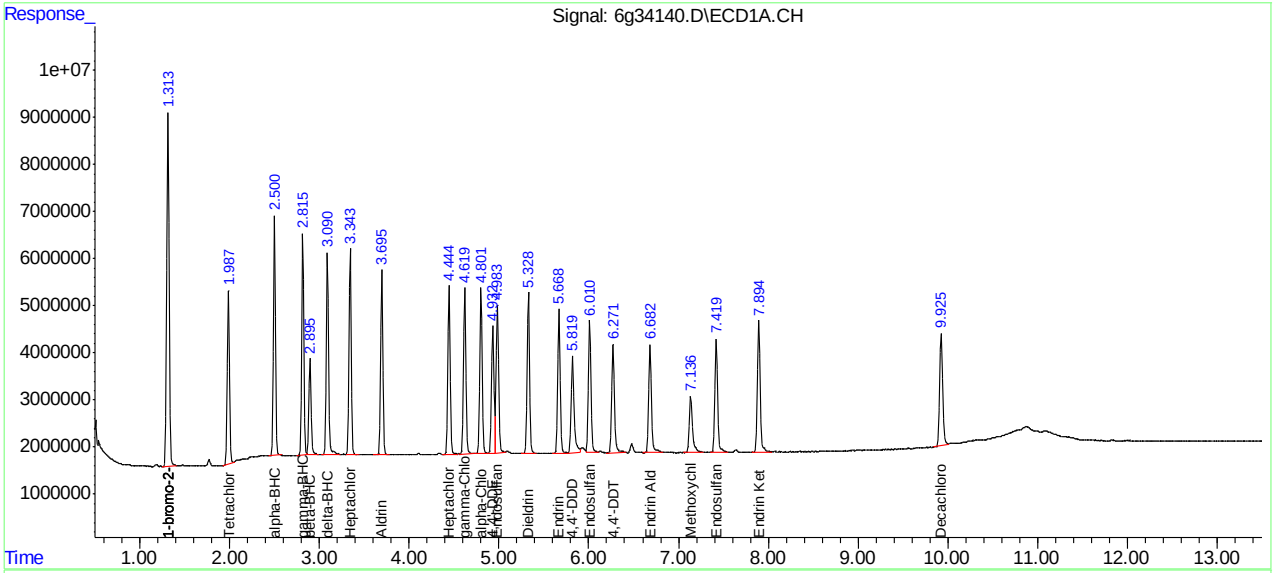
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

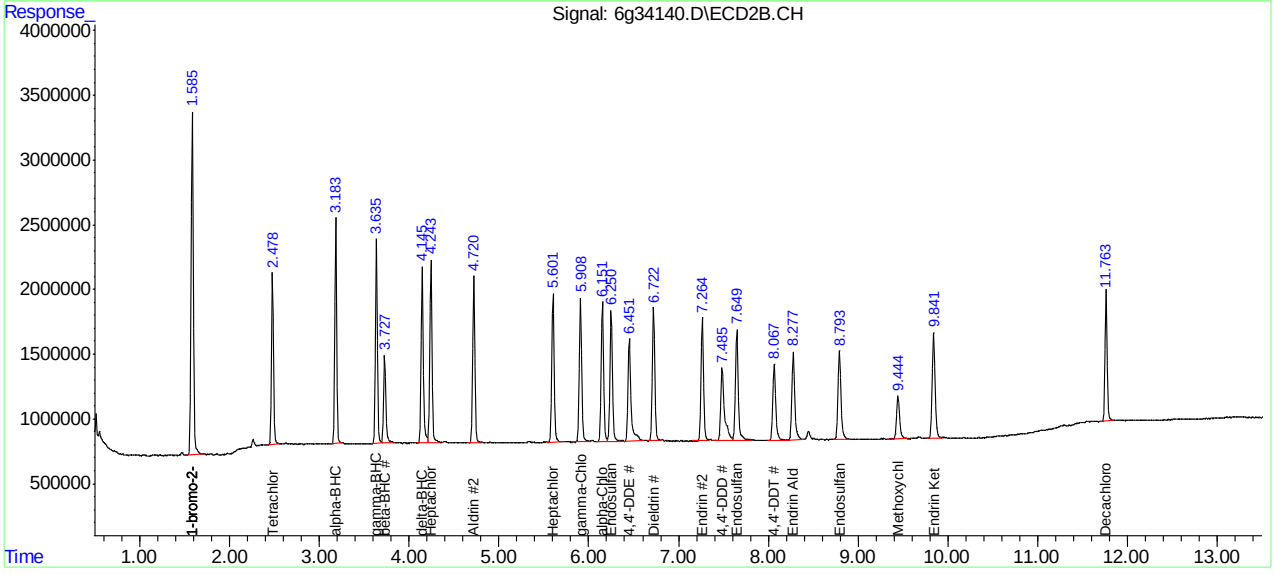
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34140.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:33 pm
Operator : dharas
Sample : icv987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:39:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34141.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:49 pm
Operator : dharas
Sample : icv987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.315	1.585	139.1E6	46174224	50.000	50.000
25) I	1-bromo-2...	1.315	1.585	139.1E6	46174224	50.000	50.000
31) I	1-bromo-2...	1.315	1.585	139.1E6	46174224	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
22)	Mirex	7.268	9.757	54152772	16665136	26.087	25.195
	SemiQuant Compounds - Not Calibrated on this Instrument						

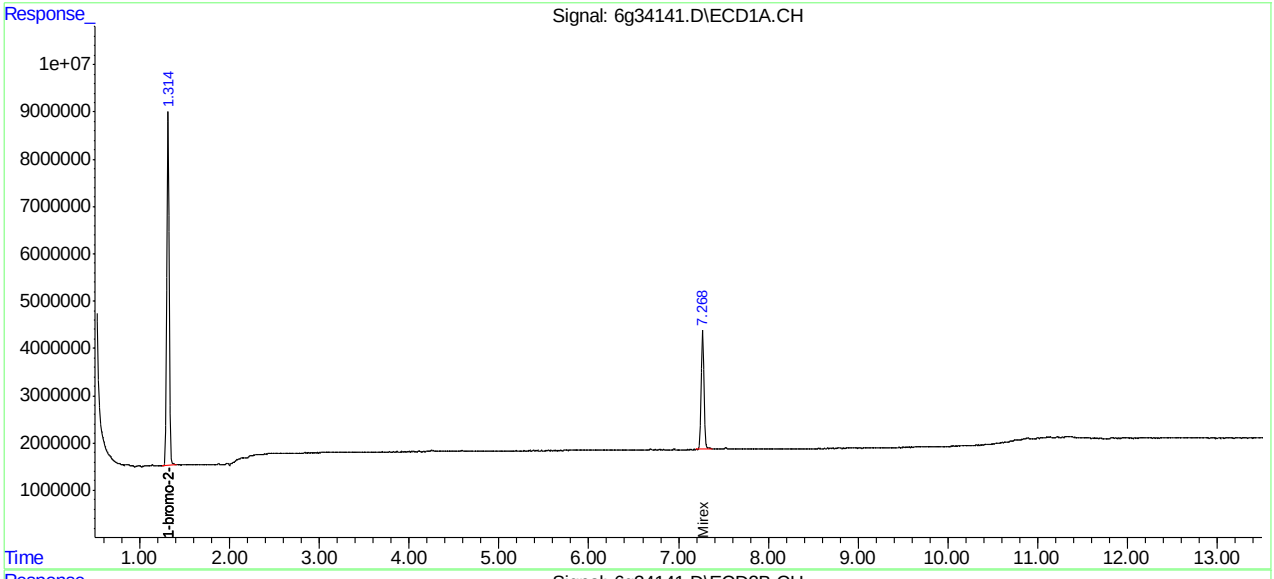
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

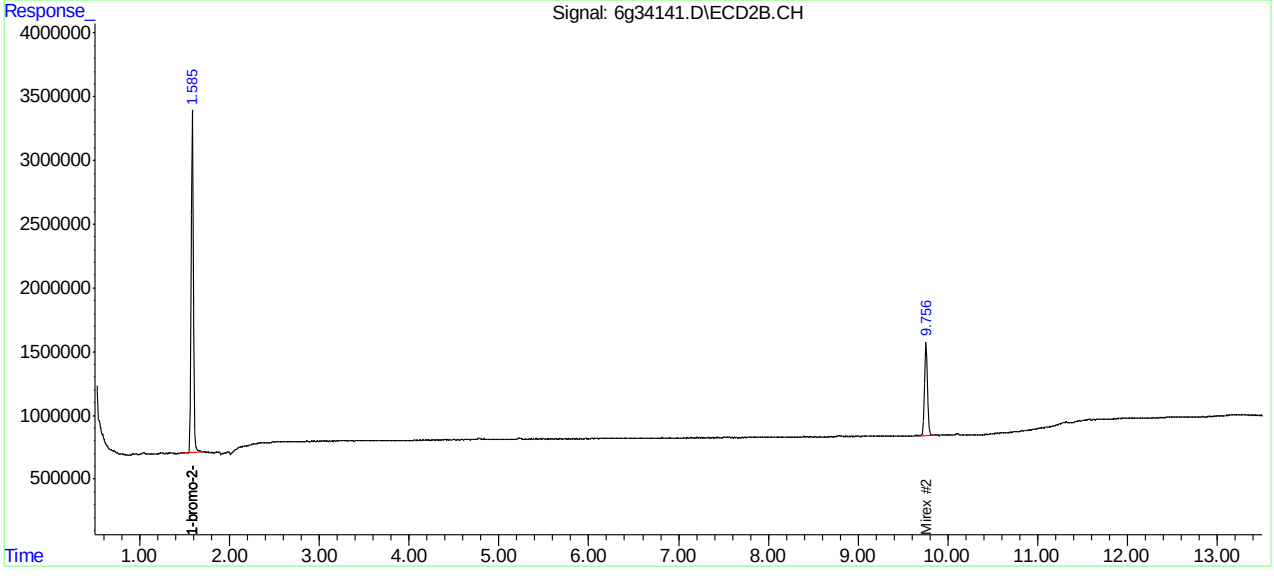
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34141.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:49 pm
Operator : dharas
Sample : icv987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34142.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:06 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:37:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.314	1.584	139.2E6	46593400	50.000	50.000
25) I	1-bromo-2...	1.314	1.584	139.2E6	46593400	50.000	50.000
31) I	1-bromo-2...	1.314	1.584	139.2E6	46593400	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.988	2.478	118.3E6	37474692	46.357	44.517
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 115.89%	111.29%
24)	SAB Decachlor...	9.927	11.763	108.1E6	31302522	48.712	49.456
	Spiked Amount	40.000			Recovery	= 121.78%	123.64%
	Target Compounds						
32)	Chlordane...	3.249	4.035	49568251	16358202	576.655	563.833
33)	Chlordane...	3.847	4.932	55966212	17786680	490.285	506.726
34)	Chlordane...	4.619	5.908	178.9E6	51177548	489.814	485.112
35)	Chlordane...	4.793	6.152	291.0E6	87527557	507.996	496.014m
36)	Chlordane...	5.916	7.734	41796779	12665747	463.544	449.474
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

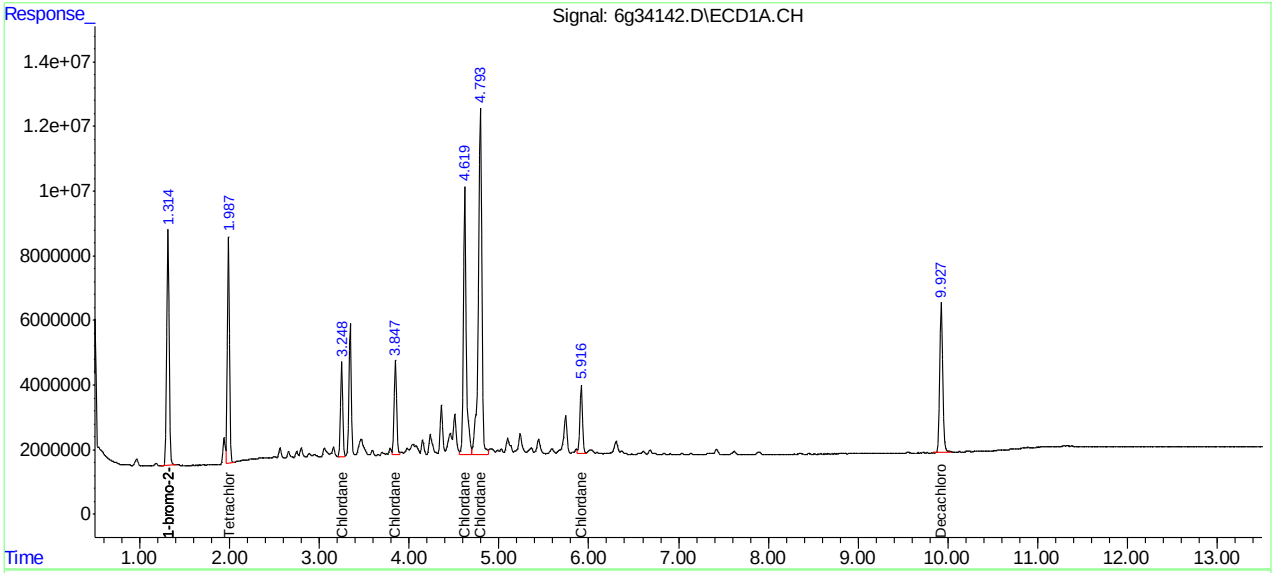
9.6.31
9

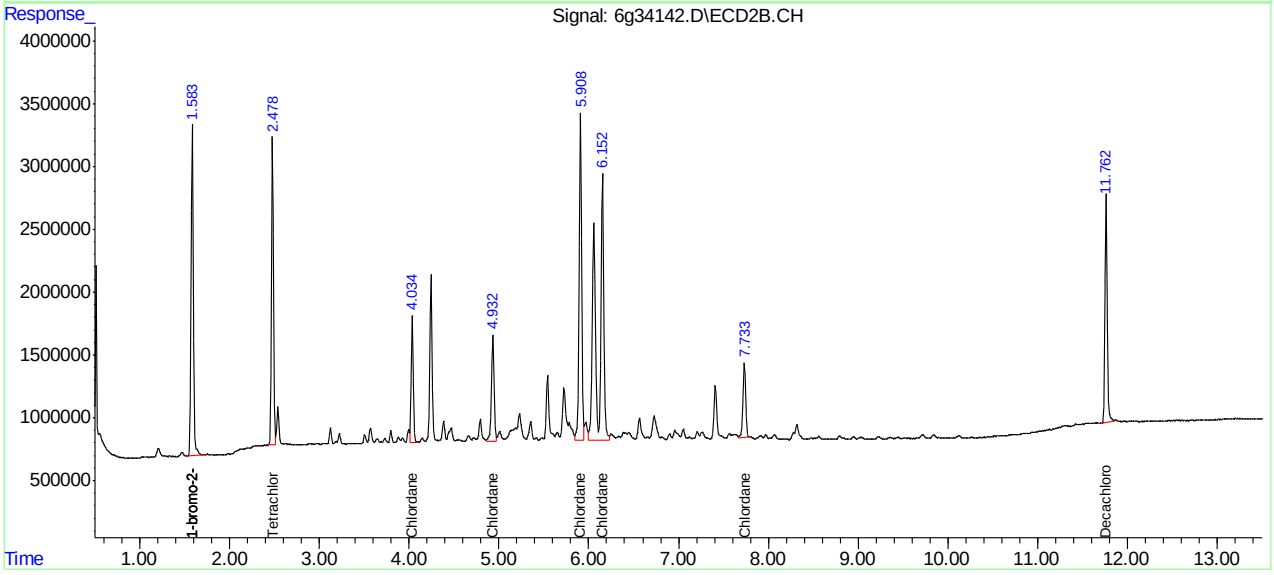
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34142.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:06 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:37:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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:	G6G987-ICV987	**Method:**	SW846 8081B
Lab FileID:	6G34142.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 19:06	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

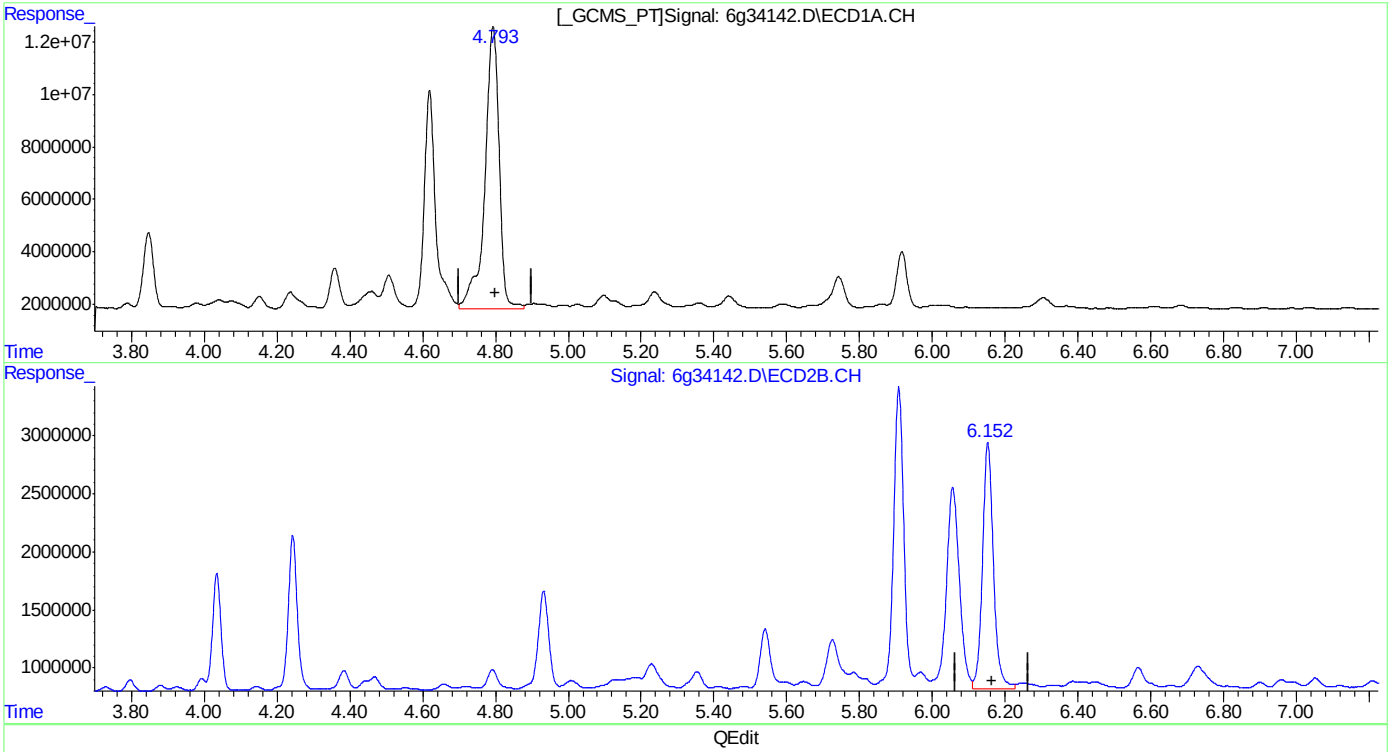
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	6.15	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34142.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:06 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:36:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(35) Chlordane {D}
4.793min 507.996PPB
response 291002130

(35) Chlordane {D} #2
6.152min 250.802PPB
response 44256937

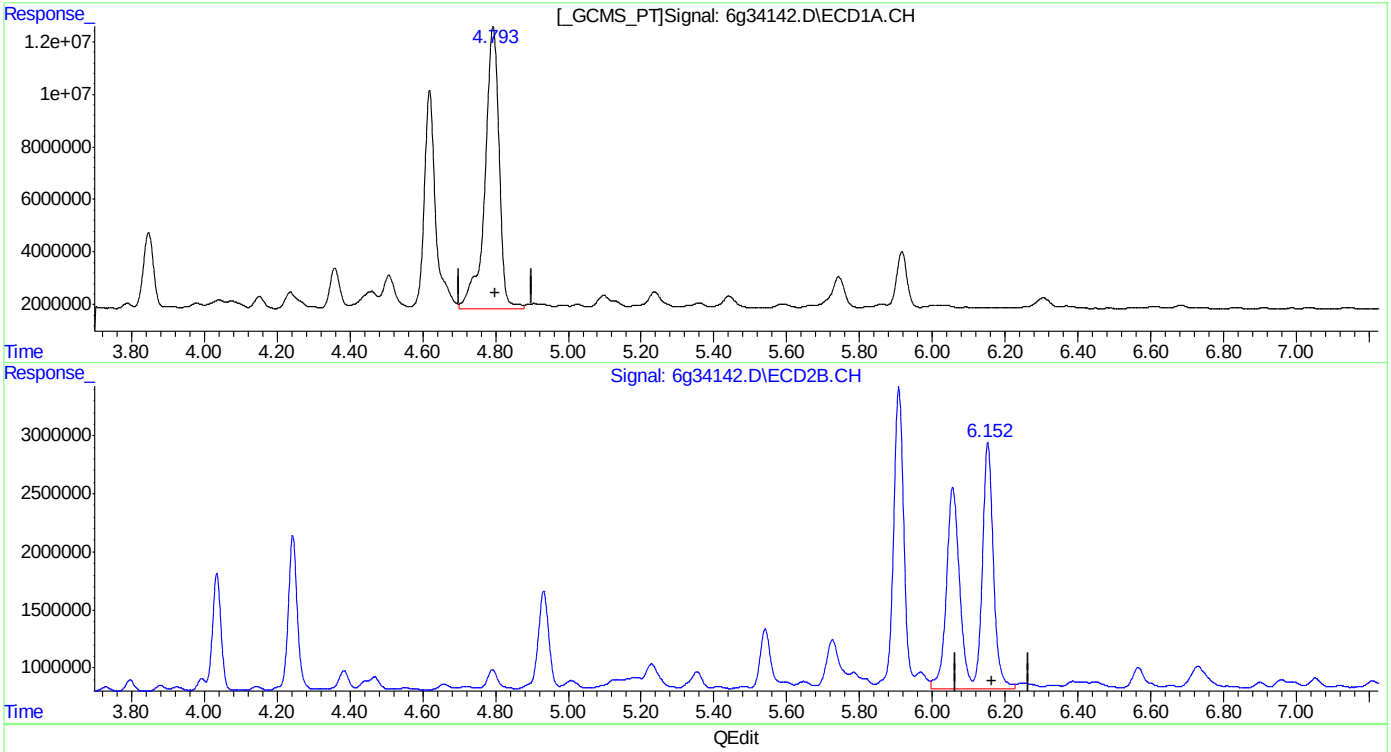
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34142.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:06 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:36:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(35) Chlordane {D}
4.793min 507.996PPB
response 291002130

(35) Chlordane {D} #2
6.152min 496.014PPB m
response 87527557

(+) = Expected Retention Time
6PST987.M Mon Apr 18 11:37:14 2016

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34143.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:22 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:34:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.314	1.584	144.8E6	45354922	50.000	50.000
25) I	1-bromo-2...	1.314	1.584	144.8E6	45354922	50.000	50.000
31) I	1-bromo-2...	1.314	1.584	144.8E6	45354922	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.987	2.478	116.0E6	37335435	43.680	45.563
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	109.20%	113.91%
24) SAB	Decachlor...	9.925	11.763	107.6E6	30829435	46.615	50.039
	Spiked Amount 40.000			Recovery	=	116.54%	125.10%
	Target Compounds						
26) L8	Toxaphene{A}	5.337	6.687	21203662	5887343	540.559	446.752m
27) L8	Toxaphene{B}	5.732	7.618	40544589	11201908	488.653	483.227
28) L8	Toxaphene{C}	5.999	7.796	61413804	16814365	490.509	471.871
29) L8	Toxaphene{D}	6.560	8.279	34302428	11333968	483.679	481.671
30) L8	Toxaphene{E}	7.256	9.263	36744091	10750226	462.871	536.680
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

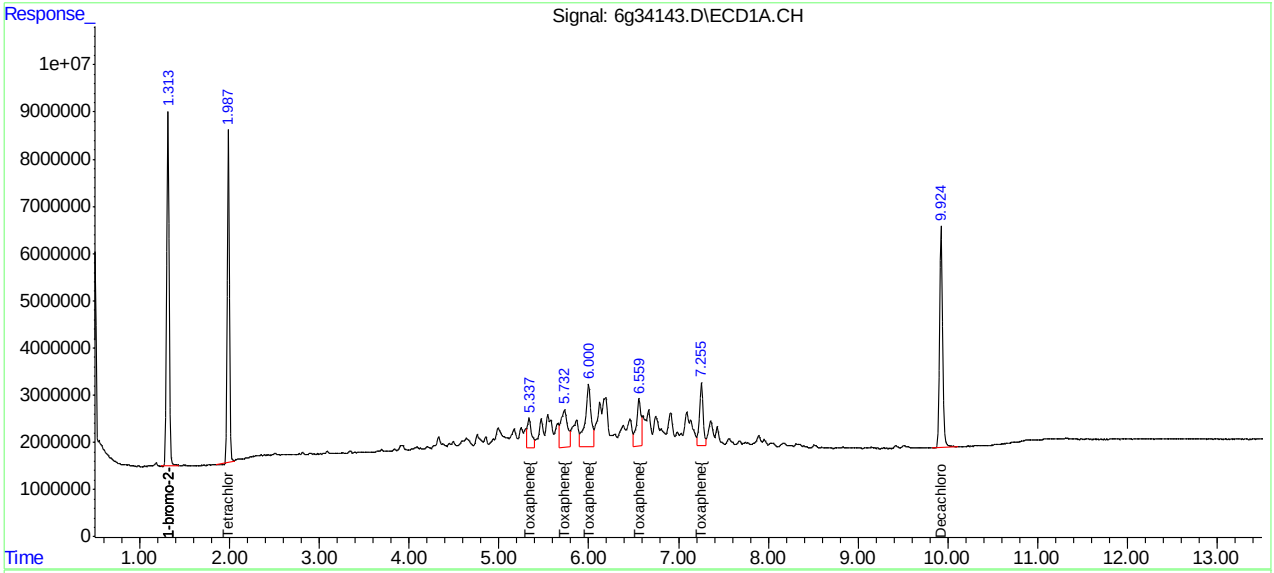
9.6.32
9

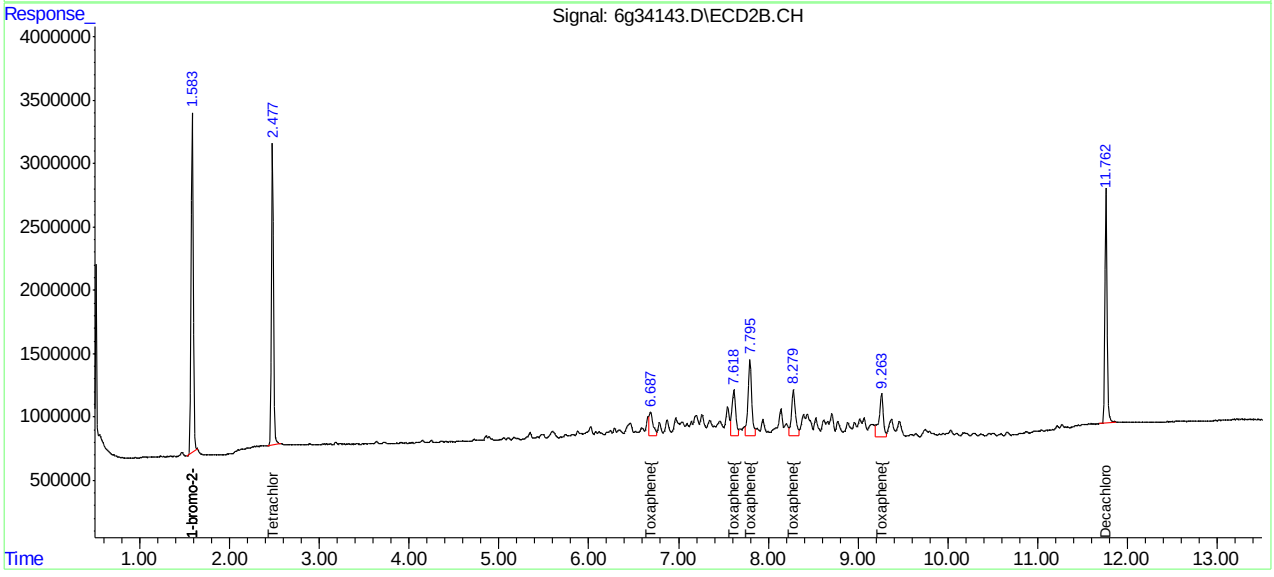
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34143.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:22 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:34:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

Manual Integration Approval Summary

Sample Number:	G6G987-ICV987	**Method:**	SW846 8081B
Lab FileID:	6G34143.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 19:22	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

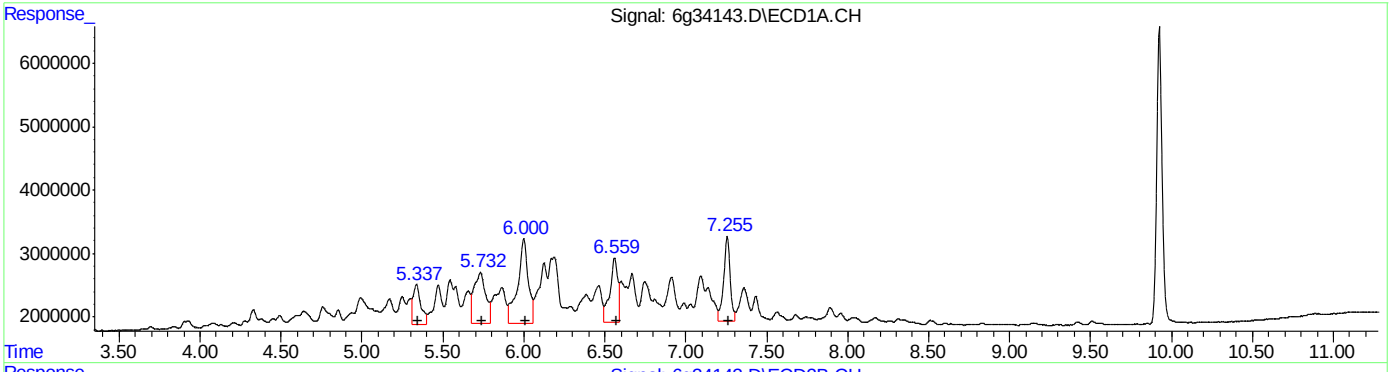
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-A		2	6.69	Poor instrument integration

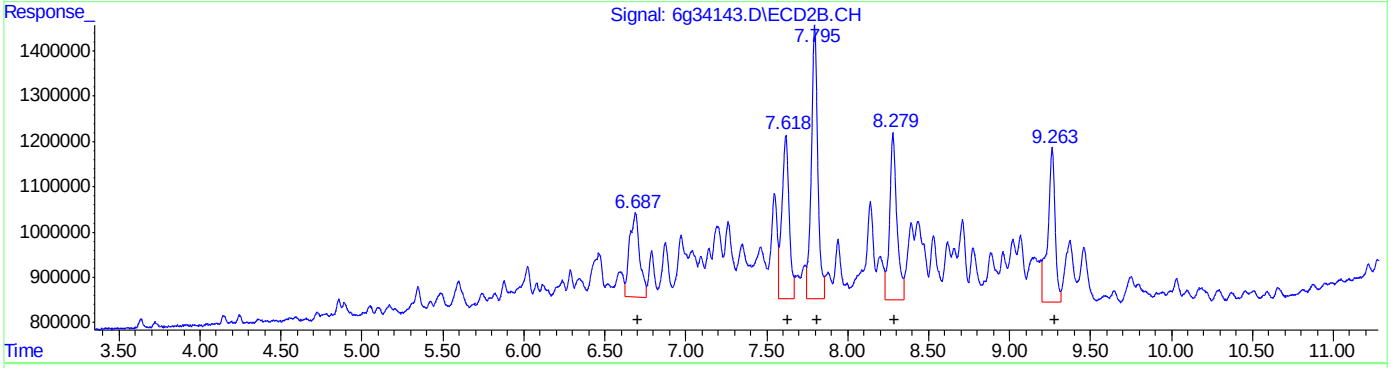
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34143.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:22 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:33:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.34	21203662	540.56
5.73	40544589	488.65
6.00	61413804	490.51
6.56	34302428	483.68
7.26	36744091	462.87

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.69	8113345	615.67
7.62	11201908	483.23
7.80	16814365	471.87
8.28	11333968	481.67
9.26	10750226	536.68

(+) = Expected Retention Time

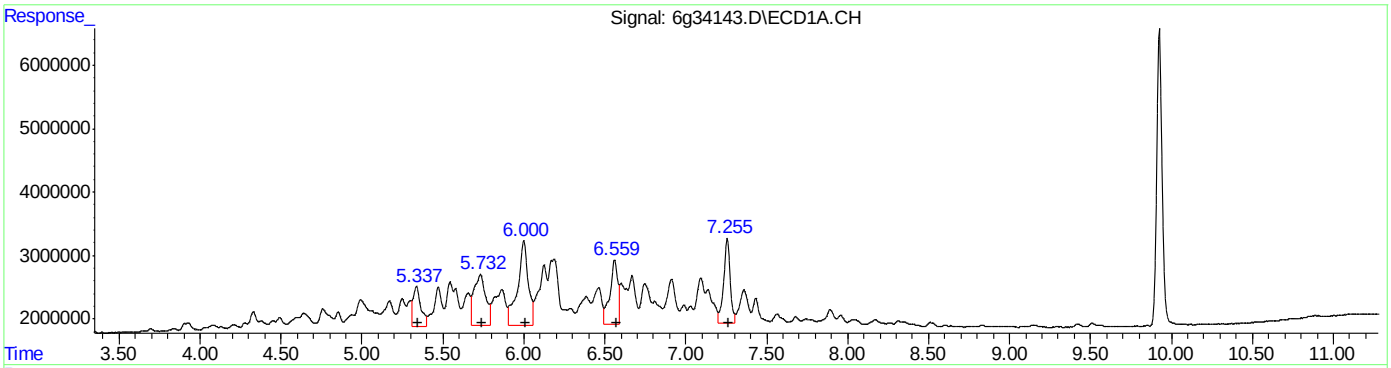
SGS ACCUTEST JC19473

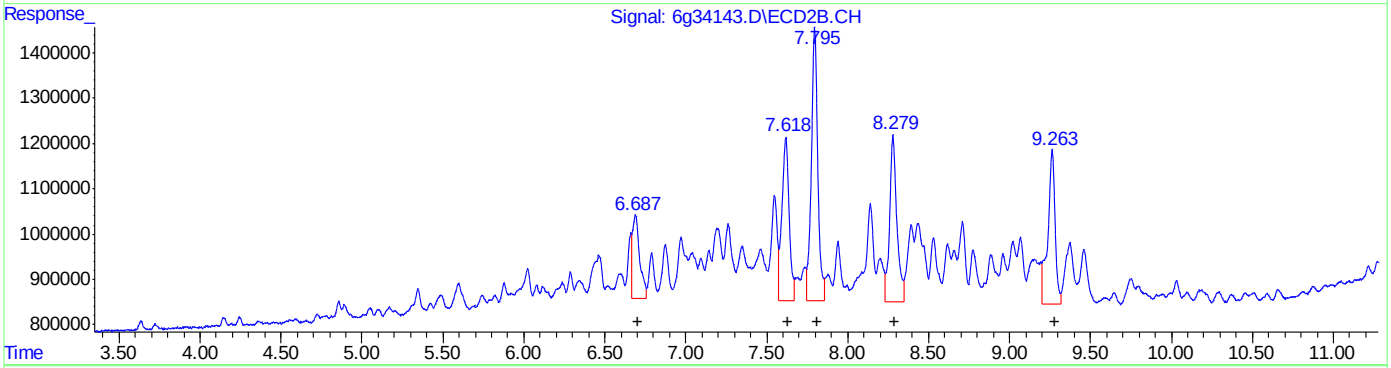
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34143.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:22 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:33:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





QEdit

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
5.34	21203662	540.56
5.73	40544589	488.65
6.00	61413804	490.51
6.56	34302428	483.68
7.26	36744091	462.87

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.69	5887343	446.75
7.62	11201908	483.23
7.80	16814365	471.87
8.28	11333968	481.67
9.26	10750226	536.68

(+) = Expected Retention Time

SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:24 am
Operator : dharas
Sample : cc987-50
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 10:38:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.299	1.571	142.5E6	51115650	50.000	50.000
25) I	1-bromo-2...	1.299	1.571	142.5E6	51115650	50.000	50.000
31) I	1-bromo-2...	1.299	1.571	142.5E6	51115650	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.976	2.466	128.2E6	43673490	49.078	47.291
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 122.69%	118.23%
24)	SAB Decachlor...	9.908	11.754	106.4E6	35043219	46.829	50.468
	Spiked Amount	40.000			Recovery	= 117.07%	126.17%
	Target Compounds						
3) A	alpha-BHC	2.490	3.170	181.3E6	61115653	53.833	50.796
4) MA	gamma-BHC	2.805	3.621	164.9E6	55532120	52.597	49.295
5) MA	Heptachlor	3.332	4.228	159.4E6	53822545	50.663	47.275
6) B	beta-BHC	2.884	3.713	74117409	24919008	48.166	45.401
7) B	delta-BHC	3.078	4.130	155.0E6	52536003	53.057	50.043
8) MB	Aldrin	3.684	4.704	149.3E6	50006356	51.366	47.236
9) B	Heptachlo...	4.431	5.584	137.7E6	45873064	50.614	46.491
10) B	gamma-Chl...	4.606	5.888	134.2E6	45020247	49.024	46.673
11) B	alpha-Chl...	4.787	6.132	133.9E6	44482135	49.263	46.418
12) A	Endosulfan I	4.970	6.231	132.8E6	43173500	49.513	46.373
13) B	4,4'-DDE	4.917	6.431	119.9E6	41942910	53.227	50.756
14) MA	Dieldrin	5.313	6.701	135.8E6	44730251	51.178	47.037
15) MA	Endrin	5.654	7.244	126.6E6	41802534	52.606	48.381
16) A	4,4'-DDD	5.803	7.462	102.5E6	35549439	53.846	49.848
17) B	Endosulfa...	5.995	7.627	121.2E6	40985599	51.052	48.500
18) MA	4,4'-DDT	6.254	8.043	107.8E6	33523153	52.035	51.789
19) B	Endrin Al...	6.665	8.255	96592533	32829431	49.911	47.915
20) B	Endosulfa...	7.403	8.771	106.6E6	35666079	51.112	47.961
21) A	Methoxychlor	7.118	9.421	62671624	18639502	50.492	52.261
22)	Mirex	7.252	9.732	100.1E6	32455032	47.097	44.324
23) B	Endrin Ke...	7.875	9.817	127.2E6	41583056	51.296	47.840

SemiQuant Compounds - Not Calibrated on this Instrument

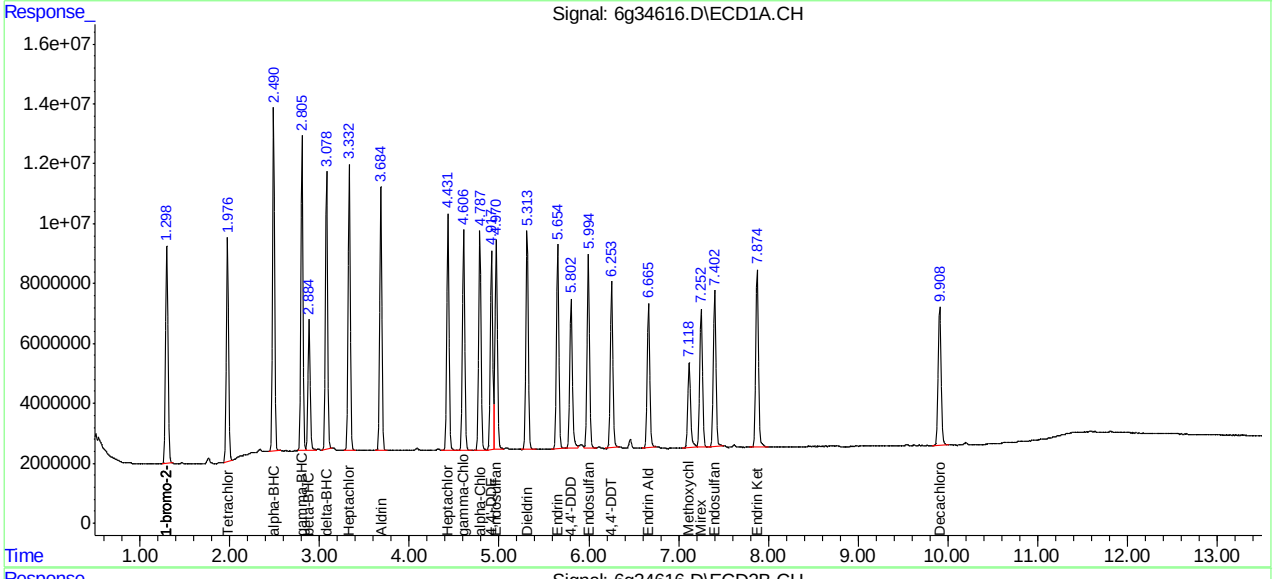
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

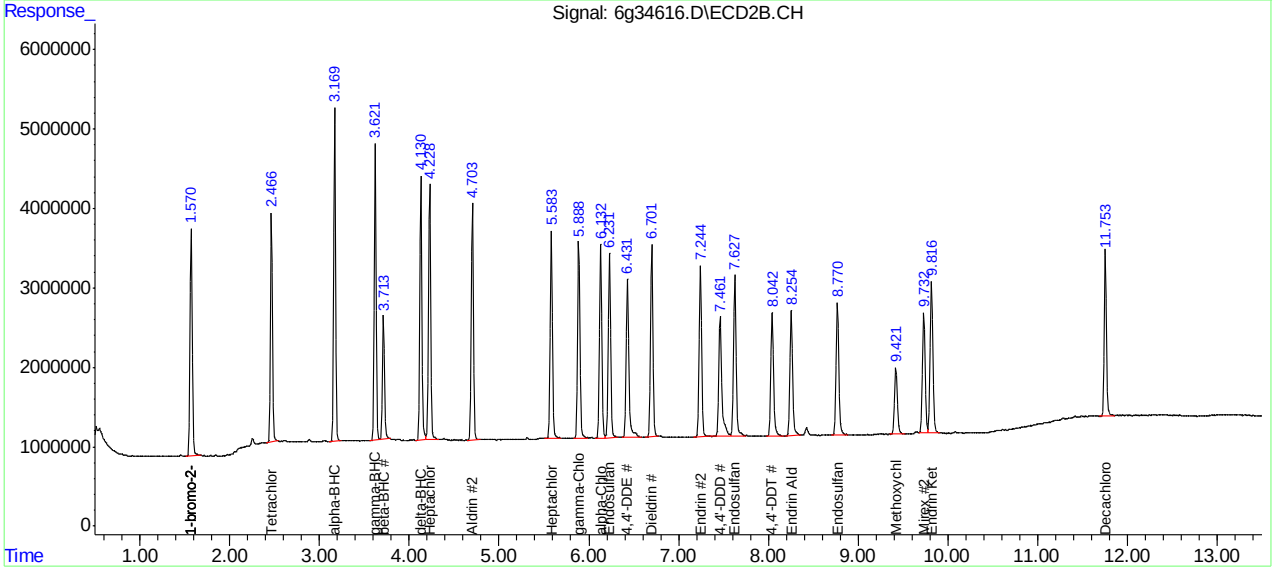
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 10:24 am
Operator : dharas
Sample : cc987-50
Misc : op93532,g6g1001,15.7,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 10:38:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34638.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 5:54 pm
Operator : dharas
Sample : cc987-25
Misc : op93532,g6g1001,15.9,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 18:09:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.299	1.571	133.1E6	47649096	50.000	50.000
25) I	1-bromo-2...	1.299	1.571	133.1E6	47649096	50.000	50.000
31) I	1-bromo-2...	1.299	1.571	133.1E6	47649096	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.976	2.466	64808561	22370127	26.573	25.985
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 66.43%	64.96%
24)	SAB Decachlor...	9.906	11.748	57825057	19123423	27.267	29.545
	Spiked Amount	40.000			Recovery	= 68.17%	73.86%
	Target Compounds						
3) A	alpha-BHC	2.489	3.168	86553481	29569590	27.529	26.364
4) MA	gamma-BHC	2.804	3.620	80191657	27358180	27.396	26.052
5) MA	Heptachlor	3.331	4.227	77991254	26918708	26.543	25.364
6) B	beta-BHC	2.883	3.712	38166153	12751480	26.563	24.923
7) B	delta-BHC	3.078	4.129	74386188	25680816	27.268	26.242
8) MB	Aldrin	3.683	4.703	72218618	24928807	26.612	25.261
9) B	Heptachlo...	4.430	5.582	68612904	23363398	27.005	25.401
10) B	gamma-Chl...	4.604	5.888	64945978	22710868	25.401	25.258
11) B	alpha-Chl...	4.785	6.131	65272107	22508751	25.722	25.197
12) A	Endosulfan I	4.968	6.229	65926084	21907722	26.316	25.243
13) B	4,4'-DDE	4.916	6.430	55826316	20578800	26.549	26.715
14) MA	Dieldrin	5.311	6.700	66213624	22366636	26.731	25.231
15) MA	Endrin	5.652	7.243	61663760	20826489	27.442	25.858
16) A	4,4'-DDD	5.803	7.462	49518719	17755647	27.855	26.709
17) B	Endosulfa...	5.994	7.624	60803087	20663988	27.425	26.232
18) MA	4,4'-DDT	6.254	8.041	52883393	16747428	27.349	27.755
19) B	Endrin Al...	6.664	8.253	49102195	16917142	27.172	26.487
20) B	Endosulfa...	7.400	8.767	53852834	18588576	27.659	26.815
21) A	Methoxychlor	7.118	9.419	32978097	9666156	28.455	29.073
22)	Mirex	7.251	9.729	53228999	17247267	26.814	25.268
23) B	Endrin Ke...	7.874	9.815	66125866	21688154	28.560	26.767

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

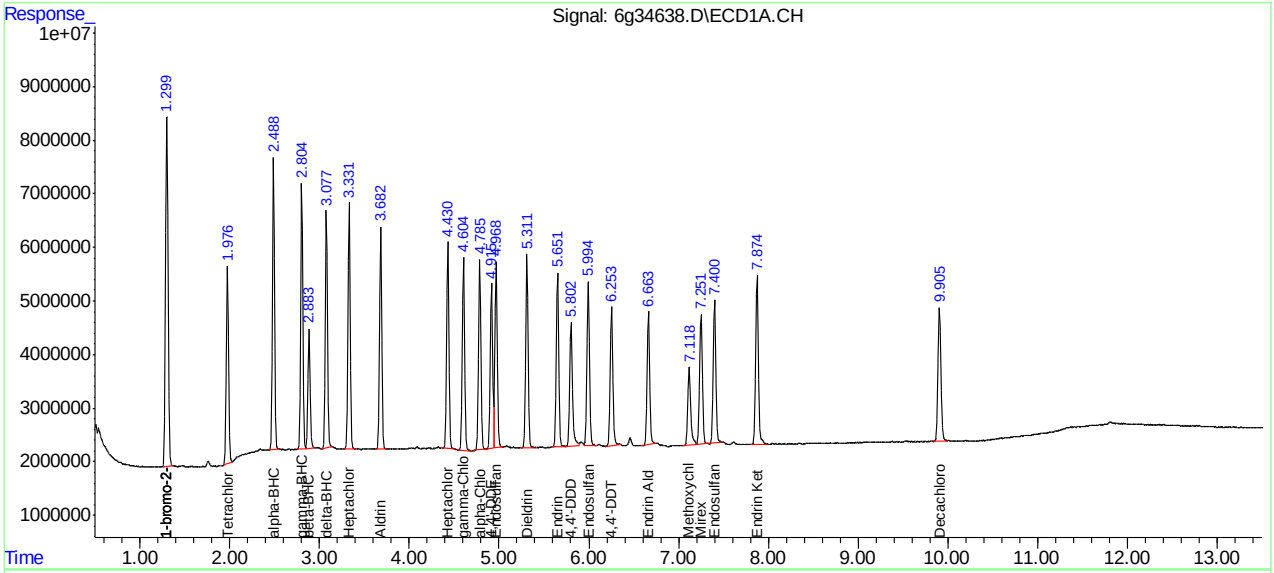
SGS ACCUTEST JC19473

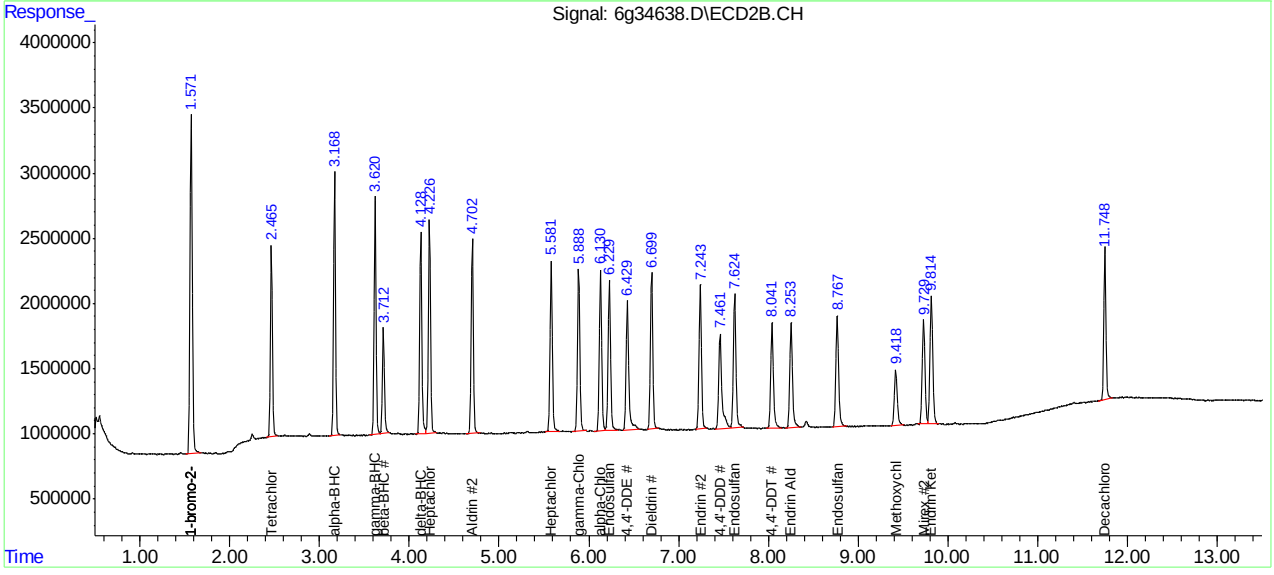
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34638.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 5:54 pm
Operator : dharas
Sample : cc987-25
Misc : op93532,g6g1001,15.9,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 18:09:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 05/04/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34659.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 11:39 pm
Operator : dharas
Sample : cc987-50
Misc : op93556,g6g1001,15.7,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 06:54:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.301	1.571	152.8E6	54277237	50.000	50.000
25) I	1-bromo-2...	1.301	1.571	152.8E6	54277237	50.000	50.000
31) I	1-bromo-2...	1.301	1.571	152.8E6	54277237	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.978	2.467	138.7E6	47853916	49.517	48.799
	Spiked Amount 40.000 Range 30 - 150 Recovery = 123.79% 122.00%						
24)	SAB Decachlor...	9.907	11.747	110.2E6	35665271	45.242	48.372
	Spiked Amount 40.000 Recovery = 113.10% 120.93%						
	Target Compounds						
3) A	alpha-BHC	2.491	3.171	201.4E6	66382304	55.760	51.959
4) MA	gamma-BHC	2.806	3.621	184.4E6	60789574	54.836	50.819
5) MA	Heptachlor	3.333	4.228	170.8E6	57046988	50.603	47.188
6) B	beta-BHC	2.886	3.713	84372020	28184612	51.123	48.360
7) B	delta-BHC	3.080	4.130	181.5E6	58143476	57.924	52.159
8) MB	Aldrin	3.684	4.704	167.2E6	54728333	53.643	48.685
9) B	Heptachlo...	4.432	5.583	151.9E6	50373195	52.043	48.078
10) B	gamma-Chl...	4.607	5.889	154.5E6	49718352	52.623	48.541
11) B	alpha-Chl...	4.788	6.133	152.2E6	48820455	52.209	47.978
12) A	Endosulfan I	4.970	6.231	149.6E6	47056566	52.002	47.600
13) B	4,4'-DDE	4.919	6.430	131.7E6	39762404	54.516	45.315
14) MA	Dieldrin	5.314	6.701	151.9E6	48841206	53.406	48.368
15) MA	Endrin	5.654	7.243	135.8E6	43909935	52.599	47.860
16) A	4,4'-DDD	5.803	7.462	119.5E6	40756856	58.521	53.821
17) B	Endosulfa...	5.995	7.626	133.7E6	45363278	52.491	50.554
18) MA	4,4'-DDT	6.255	8.042	97989899	28818187	44.119	41.927
19) B	Endrin Al...	6.664	8.254	107.3E6	36278322	51.682	49.864
20) B	Endosulfa...	7.402	8.770	116.3E6	38325239	52.000	48.535
21) A	Methoxychlor	7.120	9.419	58183164	16563982	43.707	43.737m
22)	Mirex	7.253	9.730	110.1E6	35109398	48.302	45.156
23) B	Endrin Ke...	7.876	9.818	142.4E6	45751474	53.562	49.570

SemiQuant Compounds - Not Calibrated on this Instrument

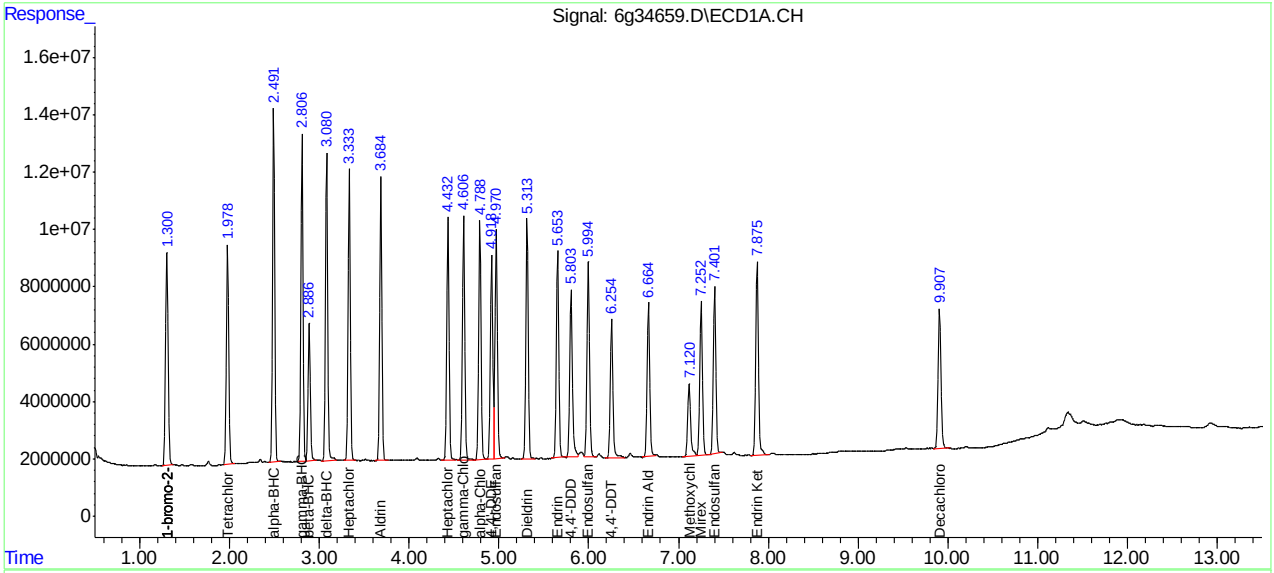
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

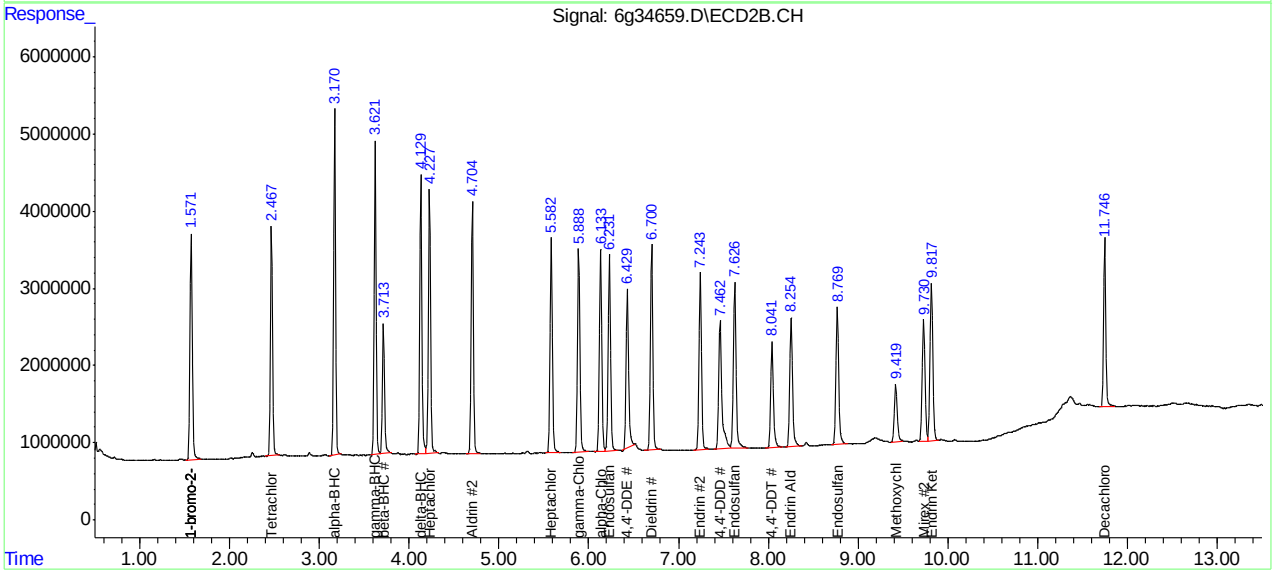
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34659.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 11:39 pm
Operator : dharas
Sample : cc987-50
Misc : op93556,g6g1001,15.7,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 06:54:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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:	G6G1001-CC987	**Method:**	SW846 8081B
Lab FileID:	6G34659.D	**Analyst approved:**	05/04/16 13:03 Dhara Saparia
Injection Time:	05/03/16 23:39	**Supervisor approved:**	05/04/16 14:34 Gwendolyn Burns

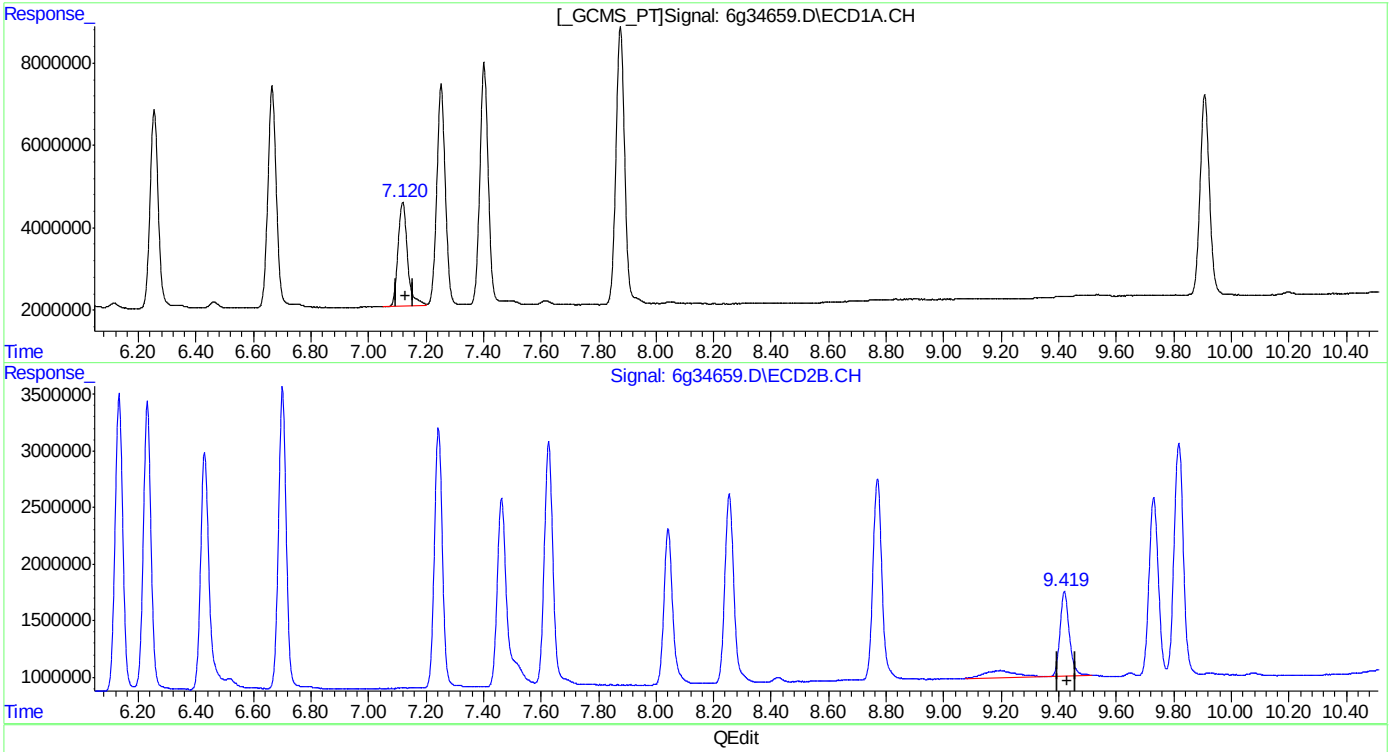
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methoxychlor	72-43-5	2	9.42	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34659.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 11:39 pm
Operator : dharas
Sample : cc987-50
Misc : op93556,g6g1001,15.7,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 06:53:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) Methoxychlor (A)
7.120min 43.707PPB
response 58183164

(21) Methoxychlor #2 (A)
9.420min 56.249PPB
response 21302566

(+) = Expected Retention Time
6PST987.M Wed May 04 06:53:39 2016

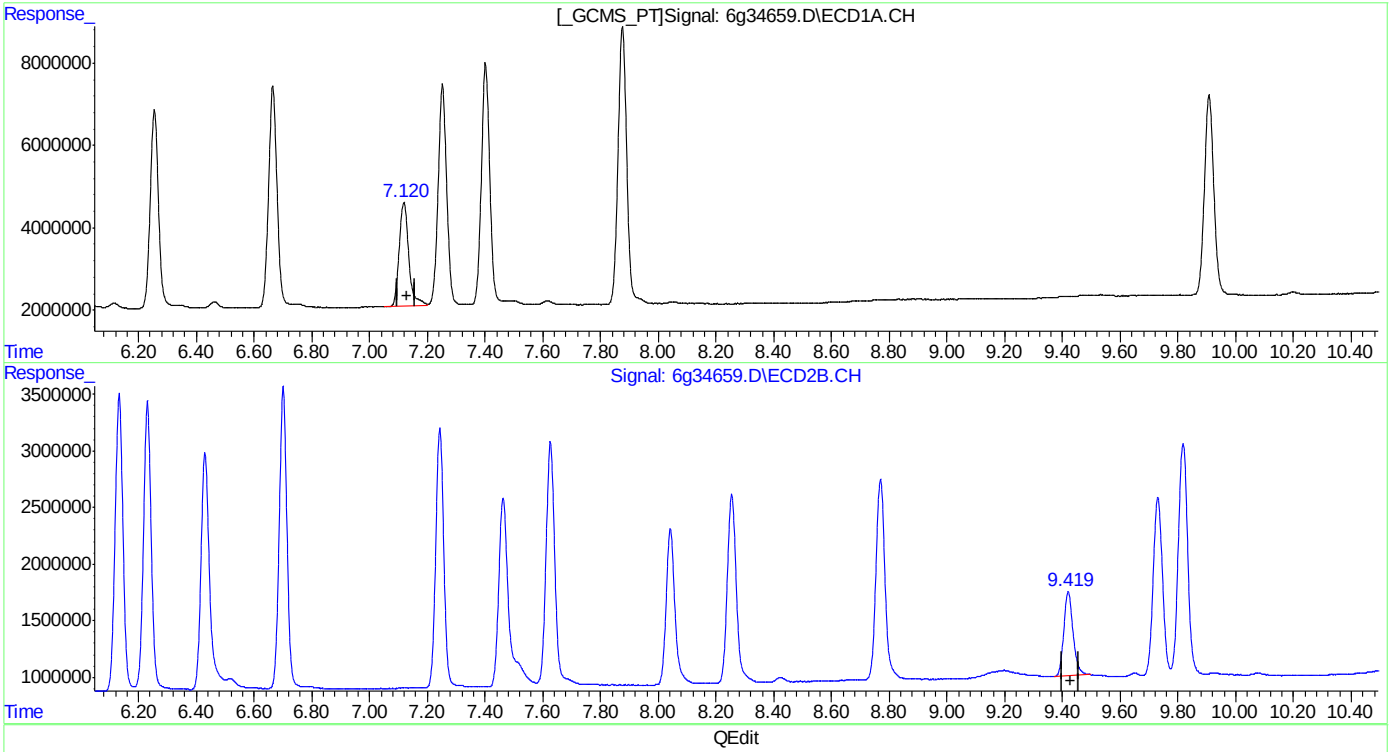
SGS ACCUTEST JC19473

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1001\
Data File : 6g34659.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 May 2016 11:39 pm
Operator : dharas
Sample : cc987-50
Misc : op93556,g6g1001,15.7,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 06:53:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



QEdit

(21) Methoxychlor (A)
7.120min 43.707PPB
response 58183164

(21) Methoxychlor #2 (A)
9.419min 43.737PPB m
response 16563982

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1002\
Data File : 6g34670.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 7:49 am
Operator : brittanp
Sample : cc987-25
Misc : op93556,g6g1002,16.6,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 08:17:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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...	1.301	1.572	129.9E6	46914744	50.000	50.000
25) I	1-bromo-2...	1.301	1.572	129.9E6	46914744	50.000	50.000
31) I	1-bromo-2...	1.301	1.572	129.9E6	46914744	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.976	2.466	63885037	22538476	26.826	26.591
Spiked Amount		40.000 Range	30 - 150	Recovery	=	67.06%	66.48%
24) SAB	Decachlor...	9.902	11.749	54240457	17473021	26.193	27.417
Spiked Amount		40.000		Recovery	=	65.48%	68.54%
	Target Compounds						
3) A	alpha-BHC	2.490	3.169	84773664	29539539	27.613	26.750
4) MA	gamma-BHC	2.805	3.620	78789145	27436994	27.566	26.536
5) MA	Heptachlor	3.331	4.226	76120904	26839564	26.531	25.685
6) B	beta-BHC	2.884	3.712	38071783	12982769	27.136	25.772
7) B	delta-BHC	3.078	4.129	69280667	24708254	26.009	25.643
8) MB	Aldrin	3.683	4.702	70047217	24815148	26.434	25.539
9) B	Heptachlo...	4.430	5.581	65616411	23305707	26.448	25.734
10) B	gamma-Chl...	4.605	5.886	61554525	22636541	24.655	25.569
11) B	alpha-Chl...	4.786	6.130	62474013	22549444	25.213	25.638
12) A	Endosulfan I	4.968	6.229	63215479	21681562	25.842	25.374
13) B	4,4'-DDE	4.917	6.428	52839361	20000294	25.734	26.370
14) MA	Dieldrin	5.312	6.698	62987717	21903767	26.041	25.096
15) MA	Endrin	5.652	7.241	58433850	20415178	26.632	25.744
16) A	4,4'-DDD	5.801	7.460	44793463	17150778	25.804	26.203
17) B	Endosulfa...	5.993	7.624	56269296	20029368	25.992	25.824
18) MA	4,4'-DDT	6.253	8.040	49726593	16217272	26.336	27.297
19) B	Endrin Al...	6.663	8.252	46199574	16084323	26.182	25.577
20) B	Endosulfa...	7.399	8.766	50829275	17693208	26.736	25.923
21) A	Methoxychlor	7.117	9.418	31470226	9551277	27.808	29.178
22)	Mirex	7.249	9.728	51000796	17241730	26.311	25.656
23) B	Endrin Ke...	7.874	9.814	61121331	20617759	27.035	25.844

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

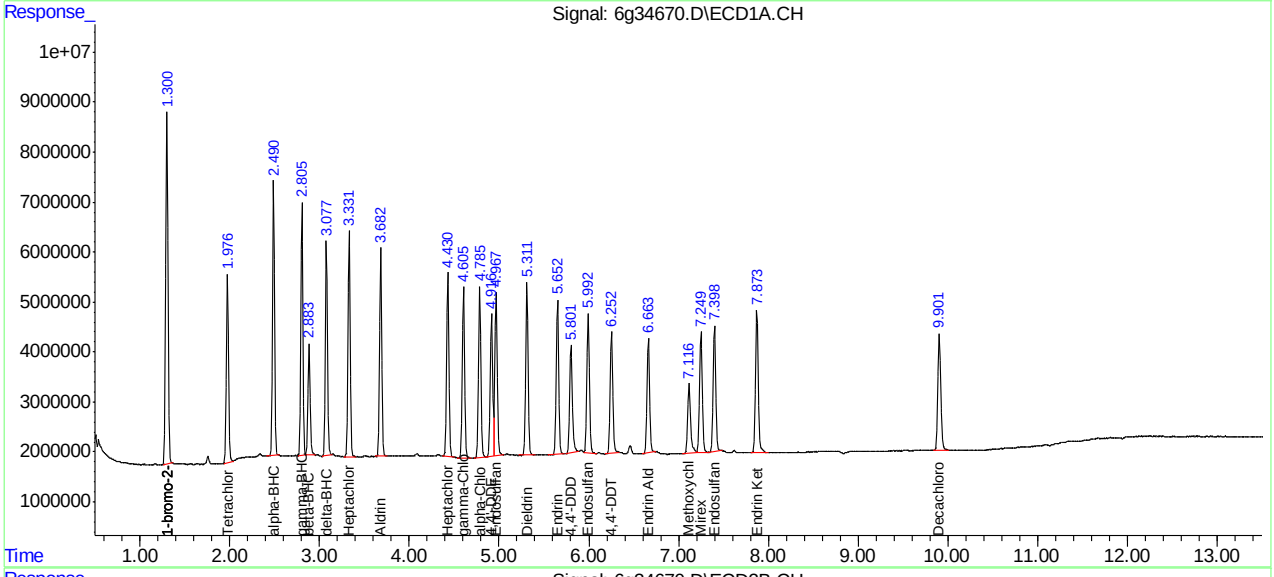
SGS ACCUTEST JC19473

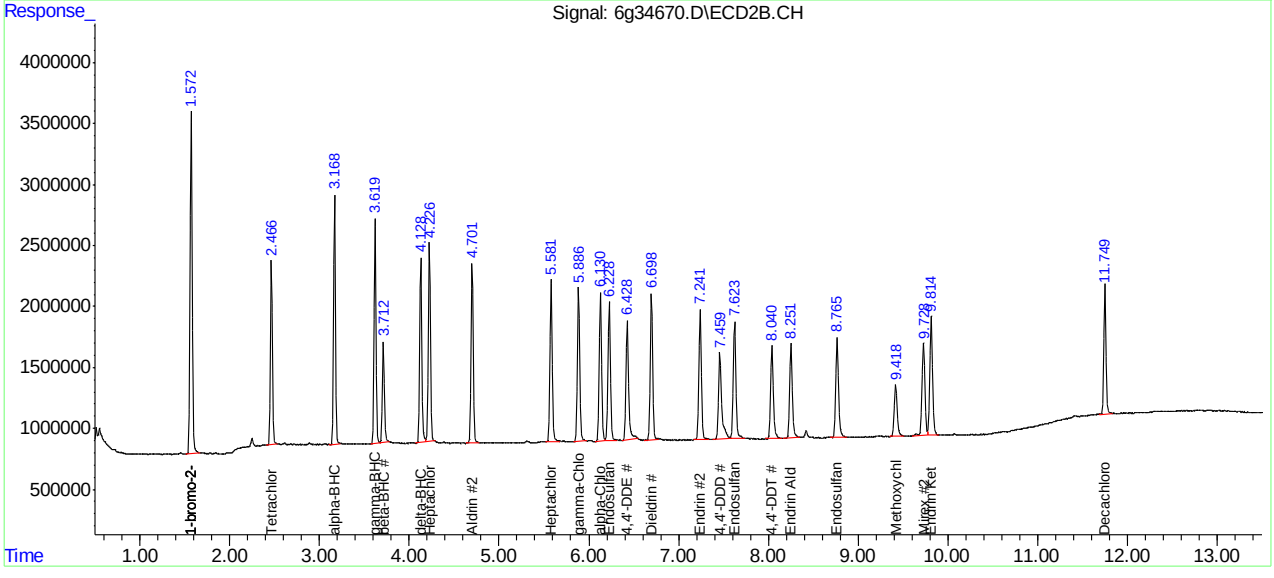
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1002\
Data File : 6g34670.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 May 2016 7:49 am
Operator : brittanp
Sample : cc987-25
Misc : op93556,g6g1002,16.6,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 08:17:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 02 10:46:23 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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 JC19473

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.
SV 1615724-1HSA	Pest mix 1st source	25 ppb
-1HSB		50
-1HSC		1
-1HSD		2
-1HSE		5
-1HSF		10
-1HSG		25
-1HSH		100
CP 1515624-137	mix + 2nd source	250 ppb

Standard Data

Lot #	Description	Conc.
SV 1615724-125	Pest ISTD	5 ppm
-71	PCM	10-250 ppb
-87	TB	250 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	ddet				1			/	ok	
	831	TB				2			/	ok	
	832	TC 1778-1	1st source	Pest mix		3			/	ok	
	833	-2				4			/	ok	
	834	-5				5			/	ok	
	835	-10				6			/	ok	
	836	TCC 1778-25				7			/	ok	
	837	TC 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	TCC 1778-25	2nd source	Pest		13	10		/	ok	
	843	-25		mixes		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 JC19473

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.

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	Dem	10-250ppb
-148A	Pest Mix	25 ppb
-148B		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: 1µl

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	O	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

9.7.2 9

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G 1782

Print Analyst Name: Dhara Saporia

Date: 5/6/16

Analyst Signature:

Columns: 2DCLPP | 2DCLPII

Method 8081

Initial Cal. Method LPST 1778

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16187-DS	Pest ISTD	500 ng
-79	RGM	10-250 ng
-87	DB	20 ng
-100	Pest mix	25
-100	Pest mix	50
1608-63	Methane (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: 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				4				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-LRB				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:

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 (Firmal)	-

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

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.
SV160874-135	Pest ISTD	5ppm
-79	Pem	10-250ppb
-148A	Pest Mix	25
-148B	1	50
-87	I.B.	20
160863		
160183 BP 5/9/16	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
	49 68028	JC19492-10A	93699-1	8081 TCLP	W	21				OK	
	029	-11A				22				OK	
	030	-12A				23				OK	
	031	CC 1778-25				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

SGS ACCUTEST JC19473

9.7.3 9

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G 1001

Print Analyst Name: Dhara Saporia

Analyst Signature:

Date: 05/03/16

Columns: ZBCLPD / ZBCLPM

Method 8081

Initial Cal. Method 6PST 987

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161933-07	Pest Std	500
-79	PCM	10-250 ng/ml
-1WPA	Pest mix	2 ng/ml
-1WPM	Pest mix	50
161933-09	ZB	20
160863	Hexane Rinse	–
161933-20	TBA clean up	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 5/4/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	G2M 615	blk				1				OK	
	616	CC987-50				4				OK	
	617	ZB				3				OK	
	618	OP93556-MB1	93556	8081	S	5				OK	
	619	-BS1				6				OK	
	620	JC19321-4		TCL		7				OK	
	621	OP93571-MB1	93571	8081	W	8				OK	
	622	-BS1				9				OK	
	623	-MS				10				Not using	Need TBA
	624	-MSD				11				Not using	
	625	JC19409-1		dalclen dlc, ddt		12				Not using	
	626	-2				13				OK	
	627	-4				14				OK	
	628	-5				15				Not using	Need TBA
	629	-6				16				OK	
	630	-7				17				OK	
	631	-9				18				OK	
	632	OP93532-MB1	93532	8081	S	19				OK	TBA clean up
	633	OP93532-BS1			S	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

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Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G 1001

Print Analyst Name: Humarah Bano

Date: 5/3/16

Analyst Signature: HB

Columns: ZB CLPI / ZBCLPII

Method 8081

Initial Cal. Method 6PST 987

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161874-135	Pest ISTD	5 ppm
-79	PCM	10-250 ppb
-148A	Pest MIX	25 ppb
-148B	Pest MIX	50 ppb
161933-09	TB	20 ppb
160863	Hexane (Fisher)	–
161933-20	TBA clean up sol	–

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: 5/4/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6g34634	JC19343-1	93532	TCL 8081	S	21				OK	TBA Clean up
	635	OP93532-MS				22				OK	
	636	-MSD				23				OK	
	637	blk				1				OK	
	638	CC987-25				2				OK	
	639	IB				3				OK	
	640	JC19140-2	93532	8081 TCL	S	5	20			OK	
	641	JC19322-5				6				OK	HAd TBA
	642	JC19398-2				7				Not using	
	643	JC19473-1	93571	8081 TCL		8				OK	
	644	-2				9				OK	
	645	JC19372-1	93556	clean		10				OK	
	646	OP93556-MS				11				OK	
	647	-MSD				12				OK	
	648	JC19372-2				13				OK	RR 1:5
	649	-3				14				OK	
	650	JC19200-21		TCL		15				OK	RR 1:5
	651	-22				16				OK	~~RR 1:5~~ DK5/4②
	652	JC19340-11				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

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Form: OR016-08
Rev. Date: 1/19/16

9.7.4 9

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1001

Print Analyst Name: Dhana Sapkota

Analyst Signature:

Date: 5/3/16

Columns: 2DCLPI / 2DCLPII

Method 8081

Initial Cal. Method G8S+ 987

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 161974-135	Pest Std	5 PPM
-74	PEM	10-250 PPB
-INT	Pest mix	25 PPB
-INT	Pest mix	50
161933-09	IS	20
160863	Methane Chloride	–
161933-20	TBA Std	–

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: 5/4/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6234653	JC19340-12	93556	8081 TCL	S	18				OK	
	654	-13				19				OK	
	655	JC19379-11				20				OK	
	656	-12				21				NOT using	Needs TBA
	657	JC19414-4				22				OK	
	658	-6				23				OK	
	659	CC987-50				4				OK	
	660	IS				3				OK	
	661	JC19414-8	93556	8081 TCL	S	24				OK	Run After 6234663
	662	-9		↓		25				OK	↓
	663	0893571-MS1	93571	dilution due dilt		26				OK	Had TBA
	664	-MS1				27				OK	
	665	-MS				28				OK	
	666	-MSD				29				OK	
	667	JC19409-1				30				OK	
	668	-5		↓		31				OK	↓

BP 5/4/16

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: G6G1002

Print Analyst Name: Brittany Piercy

Date: 05/04/2016

Analyst Signature: B.P.

Columns: ZBCLPI / ZBCLPII

Method 8081/608

Initial Cal. Method 6PST 987

Injection Volume: 1µl

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16874-135	Pest ISTD	5ppm
-79	Pem	10-250 ppb
-148A	Pest Mix	25 ppb
-148B	1	50
-87	I.B.	20
SV16933-20	TBA clean-up	—
1608863	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
	BP5 2/16 ④										
	6G 34 ~~667~~ 669	ddt			W	1				OK	
	~~668~~ 670	cc987-25				2				OK	
	671	I.B. DK 5/16				3				OK	
	672	~~OP93581-MS1~~ ~~OP93851-MB1~~	~~93581~~ ~~93851-1~~	8081 ~~TCLP~~	S	5				Not using	
	673	-BS1		PPL BP5/4/16 ④		6				RX	DDHC ↓, RX should be not
	674	OP93556-MB1	93556-1	8081 TCL/ Dieldrn	S	7				OK	Had TBA
	675	-BS1				8				OK	1
	676	JC19372-2		Dieldrn		9	5			Not using	
	677	-2				10	100			DK 5/16 ~~RX~~ OK	
	678	JC19437-1	93581 ~~93851-1~~ DK 5/16	BP5/4/16 ④ ~~TCLP~~ PPL	S	11				RX	RX should be not due to ↓ DSC
	679	-2				12					
	680	-3				13					
	681	-4				14					Need TBA
	682	-5				15					
	683	-6				16					
	684	-7				17					
	685	-8				18					
	686	OP93581-MS				19					
	687	-MSD				20					

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

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SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1002

Print Analyst Name: Brittany Piercy

Analyst Signature: BP

Date: 05/04/2016

Columns: ZBCLPI | ZBCLPII

Method 8081/608

Initial Cal. Method 6PST987

Injection Volume: 1µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161874-125	Pest ISTD	5ppm
-79-148	OP 5/4/16 Pem	10-250ppb
-148A	Pest Mix	25
-148B	1	50
-87	I.B.	20
1C19333-20	TBA Glenn Sun	—
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: SD **Date:** 5/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
R	69 34688	JC19200-21	93556-1	8081 TCL	S	21	5			OK	Run before std
R	689	-22				22	5			Not used	
	690	JC19379-12				23				OK	Had TBA RR 1:5
	691	ddt				1				OK	
	692	CC987-50				4				OK	
	693	IB				3				OK	
	694	OP93569-MS1	93569	608 PPL		5				OK	
	695	-BS1				6				OK	
	696	OP93575-MS1	93575	608 PPL	W	7				OK	
	697	-BS1				8				OK	
	698	-BSD				9				OK	
	699	JC19452-1				10				OK	
	Dist 700	JC19330-8A	93569	PPL	W	11				OK	RR 1:5 RR 1:10 For I.S.
	701	OP93569-MS				12				OK	RR 1:5 For IS
	702	-MSD				13				OK	RR 1:5 For I.S.
	703	CC987-25				2				OK	
	704	IB				3				OK	
	705	JC19566-1	93569			14				OK	
	706	JC19337-1				15				OK	RR 1:5

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: G6G1002

Print Analyst Name: Dhara Saparia

Date: 5/4/16

Analyst Signature:

Columns: 2DCLPI / 2DCLPII

Method 8081, 608

Initial Cal. Method 6PST 927

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
S1K1F74-135	Pest ISTD	5 ppm
-79	PCM	10-250 ppb
-144A	Pest mix	25 ppb
-144M	Pest mix	50
JC19331-09	IB	20
260563	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: Date: 5/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6234707	JC19352-1A	93569	608 RPh	W	16				OK	
	708	JC19330-9A				17				OK	RR 1:5 For I.S.
	709	-10A				18				OK	RR 1:5 For I.S.
	710	-11A				19				OK	~~DCB~~ BP 5/5/16
	711	-14A				20				OK	
	712	TC84CH2-1				21				OK	
	713	-2				22				OK	RR 1:5
	714	CC987-50				4				OK	
	715	IB				3				OK	

BP 5/5/16

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

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G 987

Print Analyst Name: Dhara Sapania

Date: 04/14/16

Analyst Signature: [signature]

Columns: 2BCLPD / 2DCLPD

Method 8081, 608

Initial Cal. Method G PST 987

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.
161174-1147	pest mix 1st	25 PPb
-1148		50
-1149		1
-1150		2
-1151		5
-1152		10
-1153		75
-1154		100

Standard Data

Lot #	Description	Conc.
SV161174-05	Pest IRTD	5 PPm
-79	PCM	10-250 PPb
-87	IB	20 PPb
-20	Chlordane 1st	10 PPm
-21	Toxaphene 1st	10 PPm
-95	Pest mix 2nd source	250 PPb
-96	Chlordane 2nd	500 PPb
-97	Toxaphene 2nd	500 PPb
157194	Hexane Blk	

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: 4/19/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	G234128	dblt				1				OK	
	129	IB				2				OK	
	130	IC 987-1	1st source	Pest mix		3				OK	
	131	-2				4				OK	
	132	-5				5				OK	
	133	-10				6				OK	
	134	ICC 987-25				7				OK	
	135	IC 987-50				8				OK	
	136	-75				9				OK	
	137	-100				10				OK	
	138	-500		CHL		11	20			OK	
	139	-500		TOX		12	20			OK	
	140	ICV 987-25	Pest			13	10			OK	
	141	-25	mirex			14	10			OK	OP15256437 - 250 PPb (mirex
	142	-500	CHL			15				OK	
	143	-500	TOX			16				OK	

BP 4/17/16

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

LOGBOOK ID: 6-1741

Pest/PCB Extraction Log - Aqueous

Date Started: 5/3/16 Time Started: 0700
Date Finished: 5/3/16 Time Finished: 1000

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # GC 93571 RACK# GE-60

Extracted by:	VP/YB
Concentrated by:	VP
Vialed by:	NG
Relinquished by:	
Accepted by:	
Supervisor Review:	5/3/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

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			~~BS1H20~~	300	Clear	2		✓			
BS1	LVI			DI H20	300	Clear	2		✓			
JC19409-1 MS		2		LT Yellow	150	L. Yellow	2		✓			
MSD		2		LT Yellow	150	L. Yellow	2		✓			
BS												
MS												
MSD												
1 ~~JC13380-16~~	Pest											
2 JC19409-1	LVI	5		LT Yellow	300	L. Yellow	2		✓			
3 -2		2		Clear	300	Clear	2		✓			
4 -4		3		Clear	300	Clear	2		✓			
5 -5		4		LT Yellow	300	Clear	2		✓			
6 -6		3		LT Yellow	300	Clear	2		✓			
7 -7		3		Clear	300	Clear	2		✓			
8 -9		3		Clear	300	Clear	2		✓			
9 JC19473-1		3		Clear	300	Clear	2		✓			
10 -2		3		Yellow	250	Clear	2		✓			
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Required

WITNESS SIGN: SPIKE SIGN:

Manager/Supervisor/Team Lead Approval: cl 5/2/16

1d TAT

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD: JC19409-1

Final Volume:

Other:

Comments: Line 1: Written incorrectly

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	B2	65	–	–	OK
Buchi Chiller	B2	11	–	–	OK
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)					

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	16182384	400 ppb	0.2

WITNESS SIGN: BJ SPIKE SIGN: EAL

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	16171277	250	0.2
PCB			

WITNESS SIGN: BJ SPIKE SIGN: EAL

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162641	Fisher	3/15
HEXANE	160863	Fisher	1/50

REAGENT	LOT #	BRAND
Sodium Sulfate	138459	Fisher
Glass Wool	02905_2	L&S
Filter Paper		
Copper	16171260	Aldrich
Florisil		
1:1 Sulfuric Acid		
Chlorine Strips		

SGS ACCUTEST INC.
Form: OP021A-06
Rev Date: 1/13/16

[redacted]

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	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	Yellow	10		/	/		
10 JC19423-1		1	Sand/clay	16.6		/	4	Clear	10		/	/		
11 JC19434-1		1	Soil	17.0		/	4	Yellow	10		/	/		
12 JC19445-1		1	Soil	16.0		/	4	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														

dilution

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason: toxaphene BHC

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

Comments:

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 CP	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: JC19473
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: JC19473-3 **Analyzed:** 05-MAY-16 by SP **Method:** SM2540 G-97
ClientID: RA-18 (12.5-13.5)

Wet Weight (Total)	37.42	g
Tare Weight	27.83	g
Dry Weight (Total)	35.13	g
Solids, Percent	76.1	%

Misc. Forms

Custody Documents and Other Forms

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

SGS ACCUTEST

CHAIN OF CUSTODY

JC19473

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 JC19473

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
1	BPEB-10		4/30/16	12:00:00 PM	TT	AQ	3	3								X	
2A	RA-18 GWS		5/2/16	11:30:00 AM	TT	AQ	3	3								X	
3	RA-18 (12.5-13.5)		5/2/16	1:00:00 PM	TT	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 5/10/2016, 5/17/2016

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

-3 is foreign soil; please send 1 x ~~5oz~~ 60mL bottle.
-2A is due 5/10/2016. -1 and -3 are due 5/17/2016.

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 1700	1 FX	2 FX		2 [signature] 5/4/16 945
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 # 673 [ ] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [X] Cooler Temp. 3-4

11.1 11

JC19473: Chain of Custody
Page 1 of 3
SGS Accutest Southeast

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: JC19473 CLIENT: ALNJ PROJECT: BMSMC

DATE/TIME RECEIVED: 5/4/16 945 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: [FEDEX] UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 5633 9349 1352

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: 3.2
- [ ] CORRECTED TEMPS: 3.4 (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: samples #1, #2 : COC says 3 vials, received 2

TECHNICIAN SIGNATURE/DATE 5/4/16 REVIEWER SIGNATURE/DATE e 5-4-16

NF 11/15 RECEIPTLOG040416.xls

11.1 11

ORIGIN ID:ZRPA (732) 329-0900
SAMPLE MGT
SGS ACCUTEST
2235 US HIGHWAY 130
DAYTON, NJ 08810
UNITED STATES US

SHIP DATE: 03MAY16
ACTWGT: 23.5 LB
CAD: 0743430/CAFE2812

BILL SENDER

TO SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND ROAD
SUITE C-15
ORLANDO FL 32811
(407) 426-6700
REF: JC19473

FedEx Express

WED - 04 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 5633 9349 1352
0201

EA TIXA

32811
MCO
FL-US

Part #1516148V-04 Rev.12/07

Internal Sample Tracking Chronicle

Accutest New Jersey

Job No: JC19473

AMANYWP: BMSMC, Building 5 Area, PR
Project No: AMANYWP22704

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC19473-1 BPEB-10	Collected: 02-MAY-16 12:00 By: TT		Received: 03-MAY-16 By: JP			
JC19473-1	SW846 8015C	05-MAY-16 11:30	SH			D8015LMA
JC19473-3 RA-18 (12.5-13.5)	Collected: 02-MAY-16 13:00 By: TT		Received: 03-MAY-16 By: JP			
JC19473-3	SW846 8015C MOD	06-MAY-16 09:24	SH			D8015LMA
JC19473-2A RA-18 GWS	Collected: 02-MAY-16 11:30 By: TT		Received: 03-MAY-16 By: JP			
JC19473-2A	SW846 8015C	05-MAY-16 11:51	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: JC19473
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

JC19473-1, JC19473-2A

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-1, JC19473-2A

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: JC19473
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

JC19473-3

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: JC19473
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

JC19473-1, JC19473-2A

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: JC19473
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

JC19473-3

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: JC19473
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]
JC19473-1	XY064114.D	91
JC19473-2A	XY064115.D	98
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: JC19473
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]
JC19473-3	XY064123.D	130* [b]
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
(b) Outside control limits; however, sample is ND.

GC Surrogate Retention Time Summary

Job Number: JC19473
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
JC19473-1	XY064114.D	05/05/16	11:30	13.73
JC19473-2A	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

12.5.1

12

GC Surrogate Retention Time Summary

Job Number: JC19473
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
JC19473-3	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: JC19473
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: JC19473
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: JC19473
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: JC19473
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: JC19473
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: JC19473
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\050516\XY064114.D          Vial: 5
Acq On    :  5 May 2016  11:30 am                   Operator: StevenH
Sample    : jc19473-1                               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	482907	91.041	mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 91.04%				
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

13.1.1

13

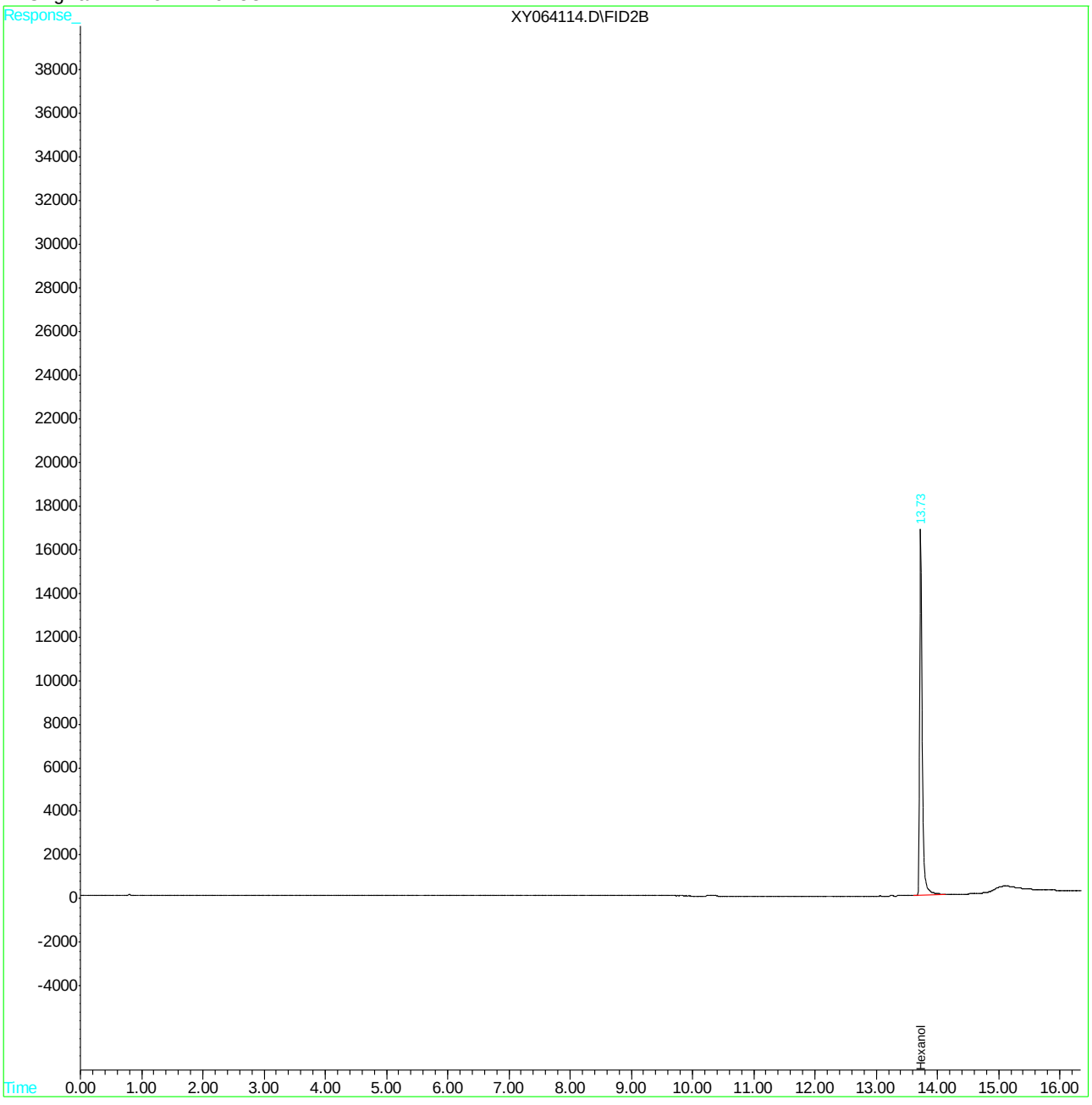
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064114.D Vial: 5
Acq On : 5 May 2016 11:30 am Operator: StevenH
Sample : jc19473-1 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



SGS ACCUTEST JC19473

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064115.D Vial: 6
Acq On : 5 May 2016 11:51 am Operator: StevenH
Sample : jc19473-2a 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	521162	98.253	mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 98.25%				
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

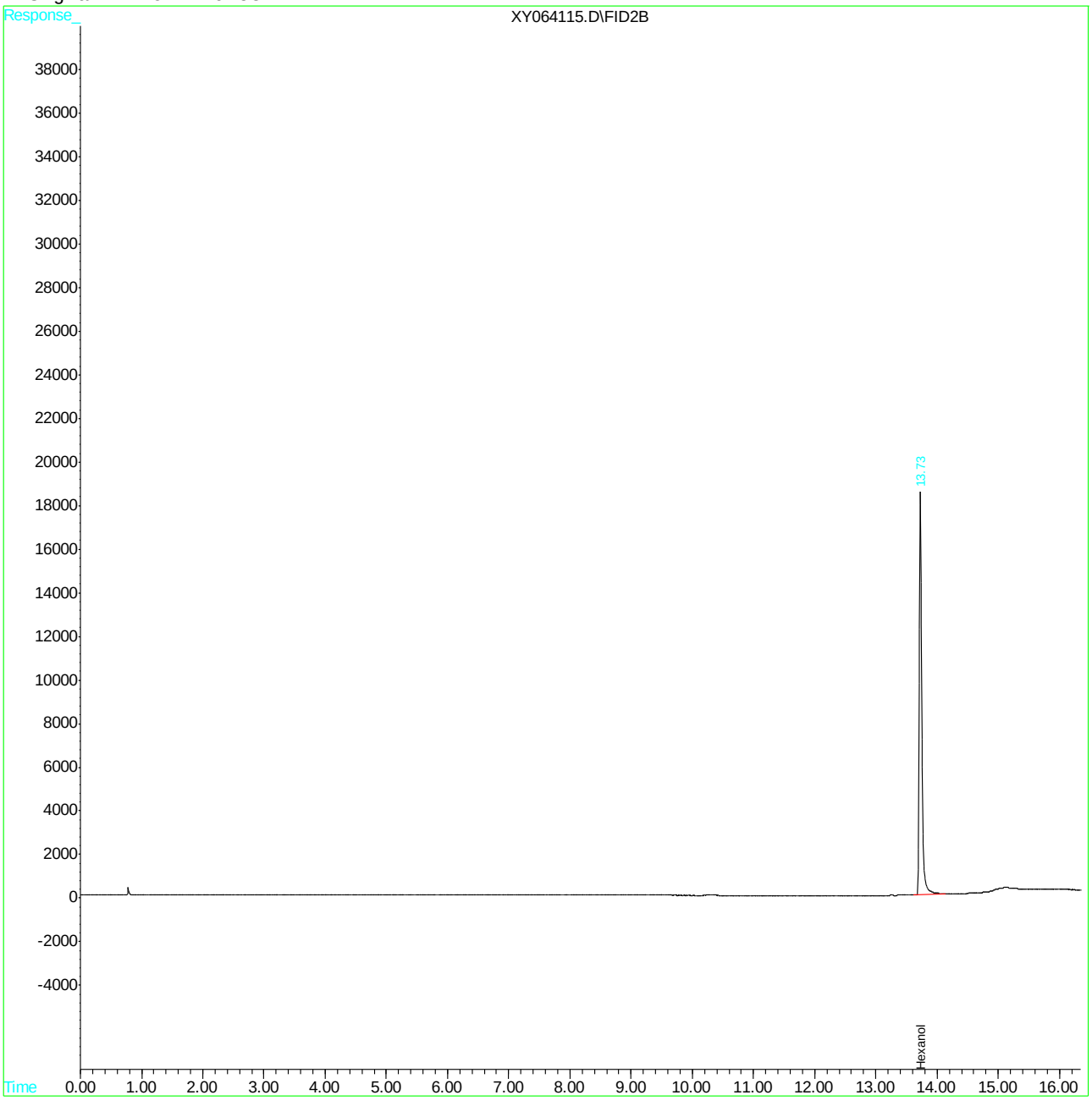
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064115.D D8015.M Fri May 06 08:44:26 2016

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050516\XY064115.D Vial: 6
Acq On : 5 May 2016 11:51 am Operator: StevenH
Sample : jc19473-2a 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\050616\XY064123.D          Vial: 5
Acq On    :  6 May 2016   9:24 am                   Operator: StevenH
Sample    : jc19473-3                               Inst    : VOA5
Misc      : gc18795,gxy2775,4.77,,,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	690219	130.125	mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 130.13%				
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

13.1.3

13

(f)=RT Delta > 1/2 Window (m)=manual int.

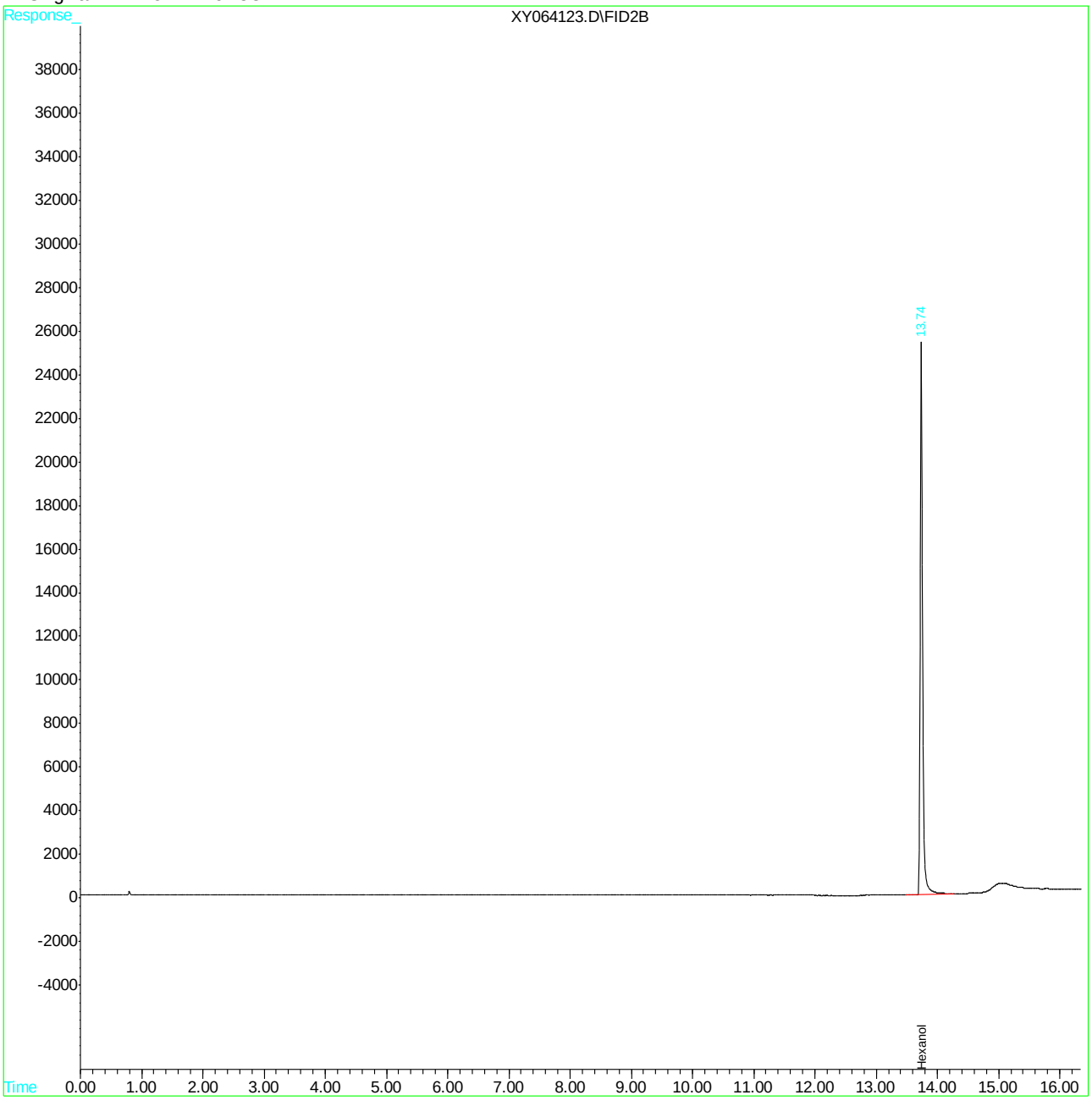
XY064123.D D8015.M Mon May 09 09:53:44 2016

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050616\XY064123.D Vial: 5
Acq On : 6 May 2016 9:24 am Operator: StevenH
Sample : jc19473-3 Inst : VOA5
Misc : gc18795,gxy2775,4.77,,,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



SGS ACCUTEST JC19473

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.

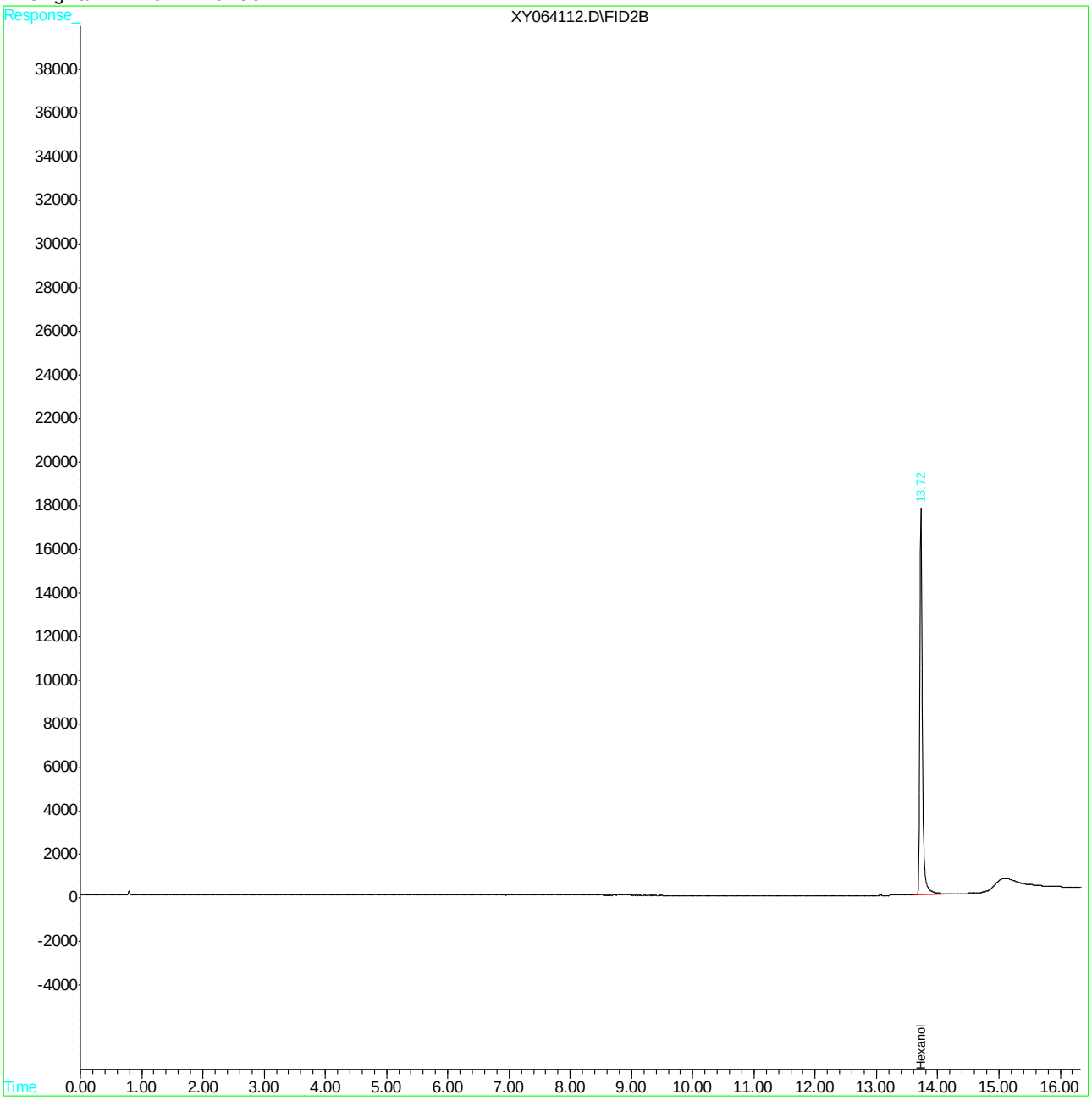
SGS ACCUTEST JC19473

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

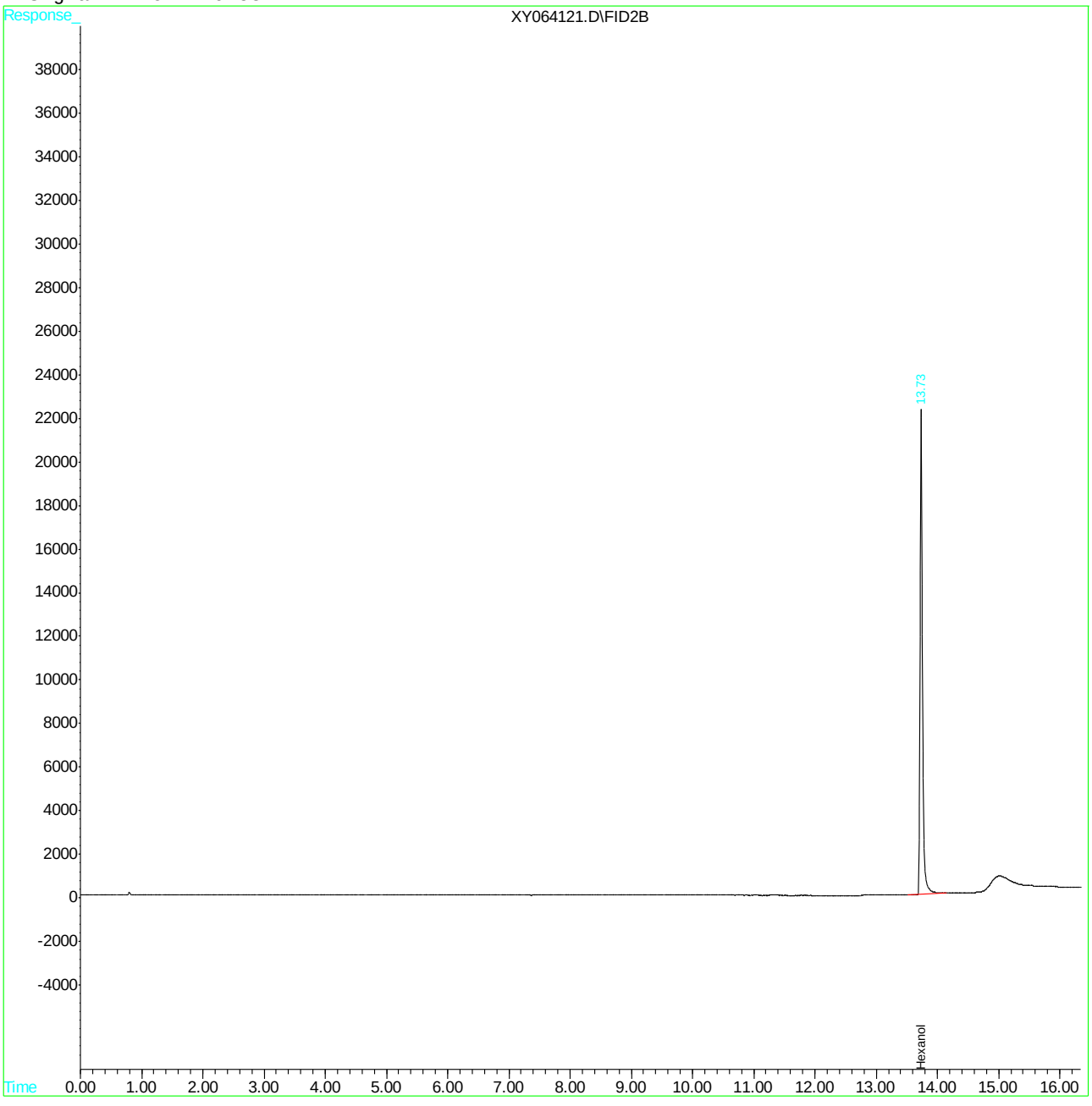
(f)=RT Delta > 1/2 Window (m)=manual int.

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

13.3.1

13

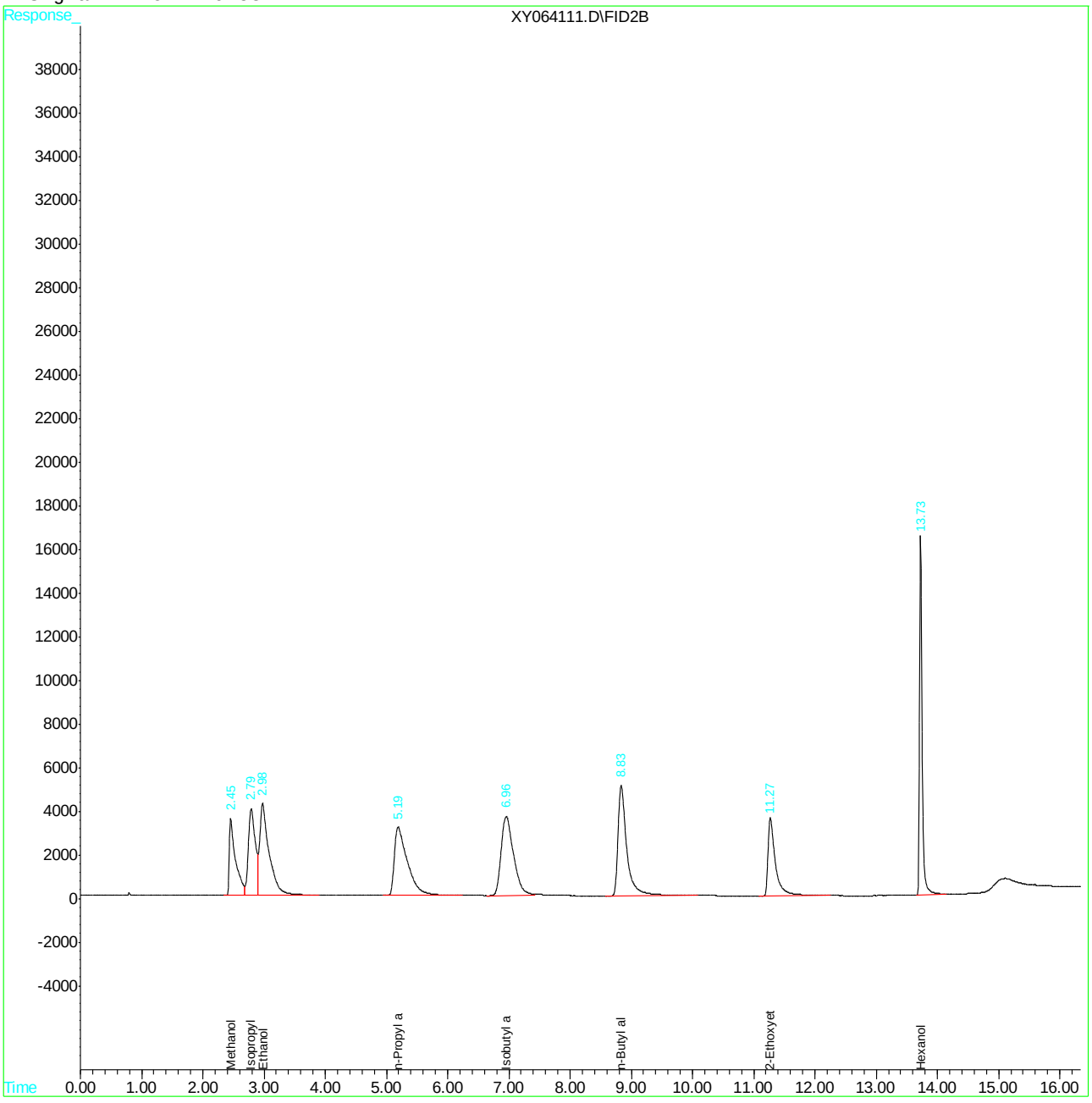
(f)=RT Delta > 1/2 Window (m)=manual int.

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
```

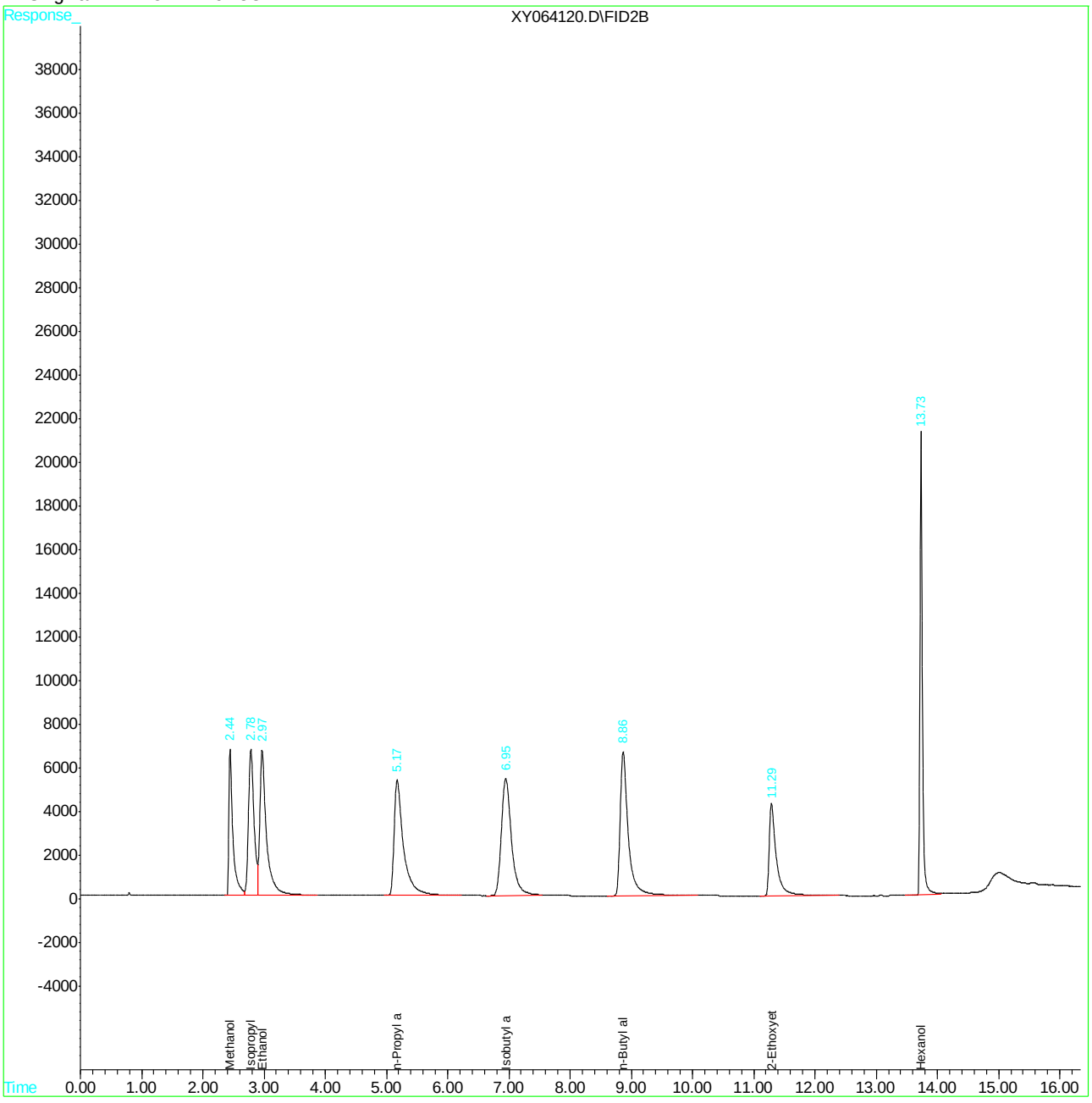
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	586456	110.563 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 110.56%			
Target Compounds			
1) Methanol	2.45	307652	113.158 mg/L
2) Isopropyl alcohol	2.79	421387	113.907 mg/L
3) Ethanol	2.97	505467	116.079 mg/L
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

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

13.4.1

13

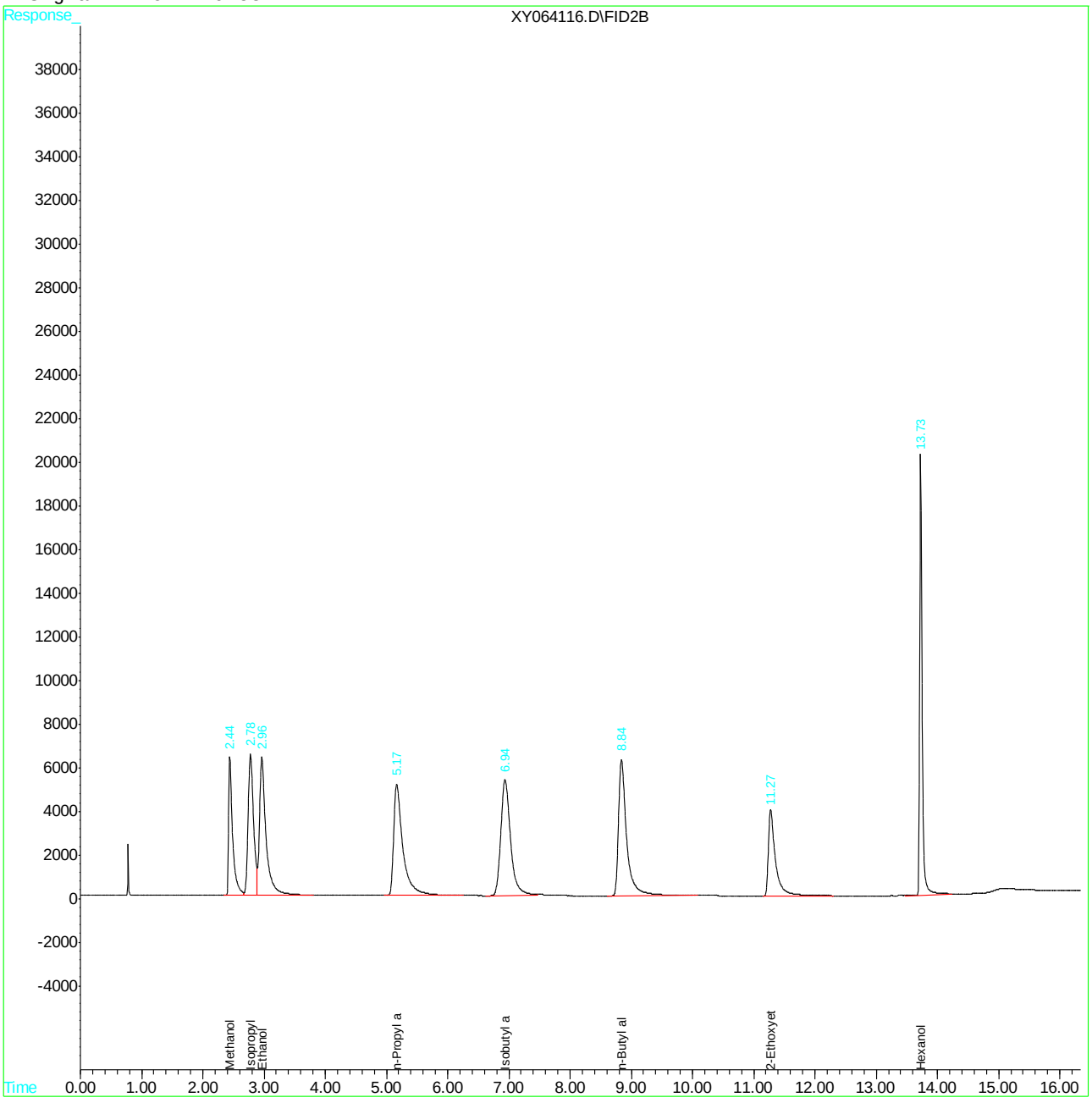
(f)=RT Delta > 1/2 Window (m)=manual int.

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

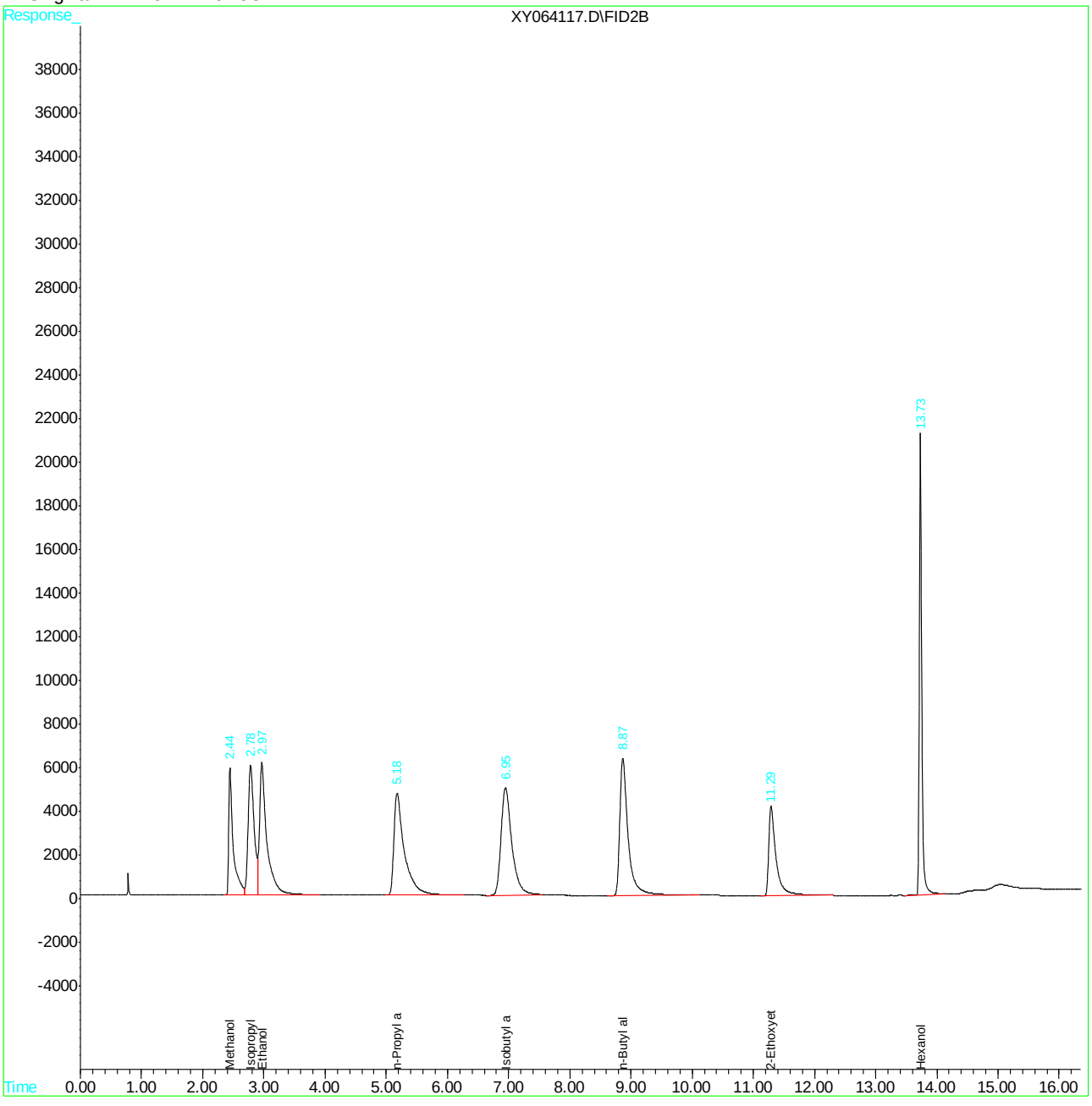
(f)=RT Delta > 1/2 Window (m)=manual int.

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

(f)=RT Delta > 1/2 Window (m)=manual int.

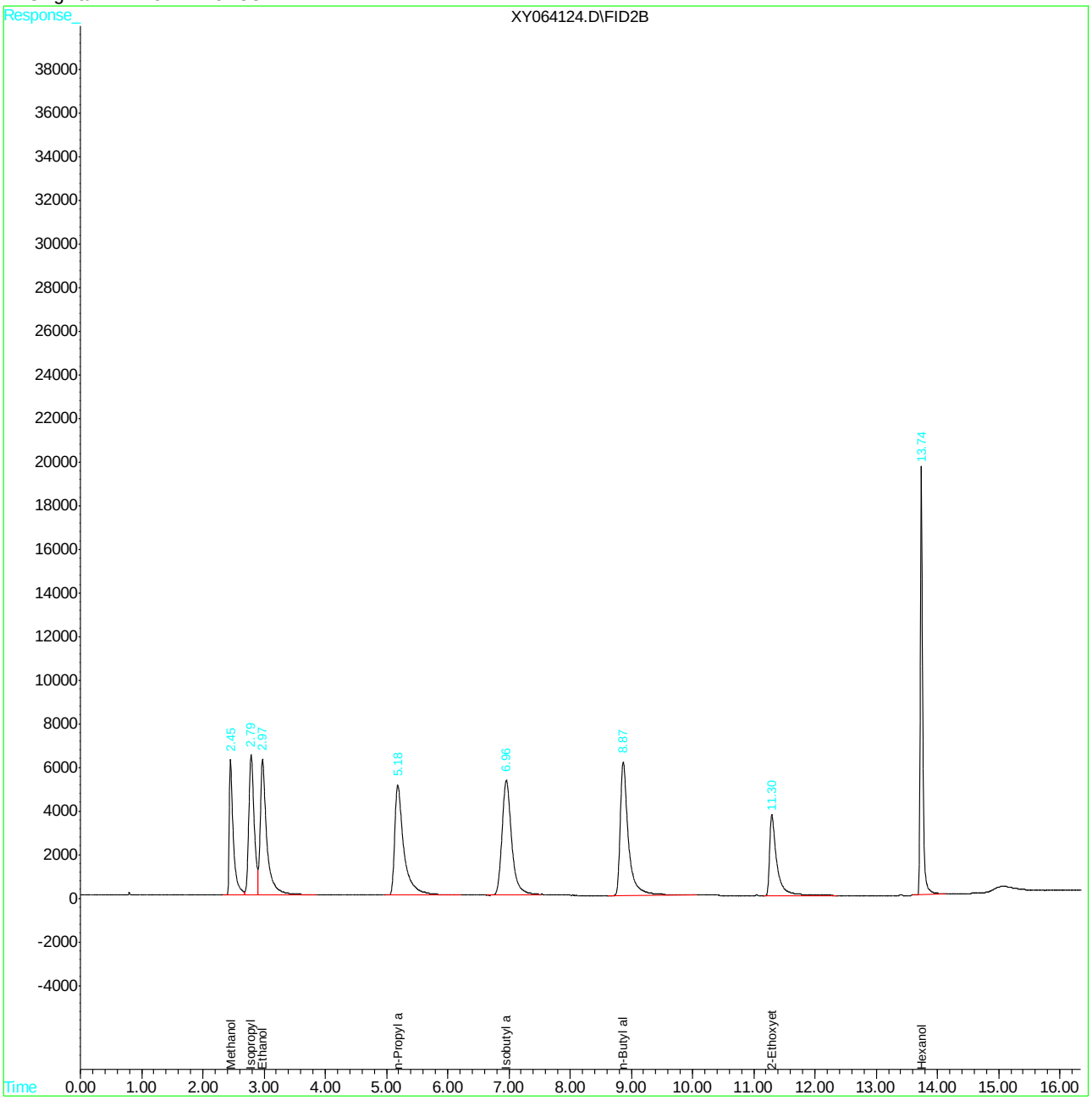
SGS ACCUTEST JC19473

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

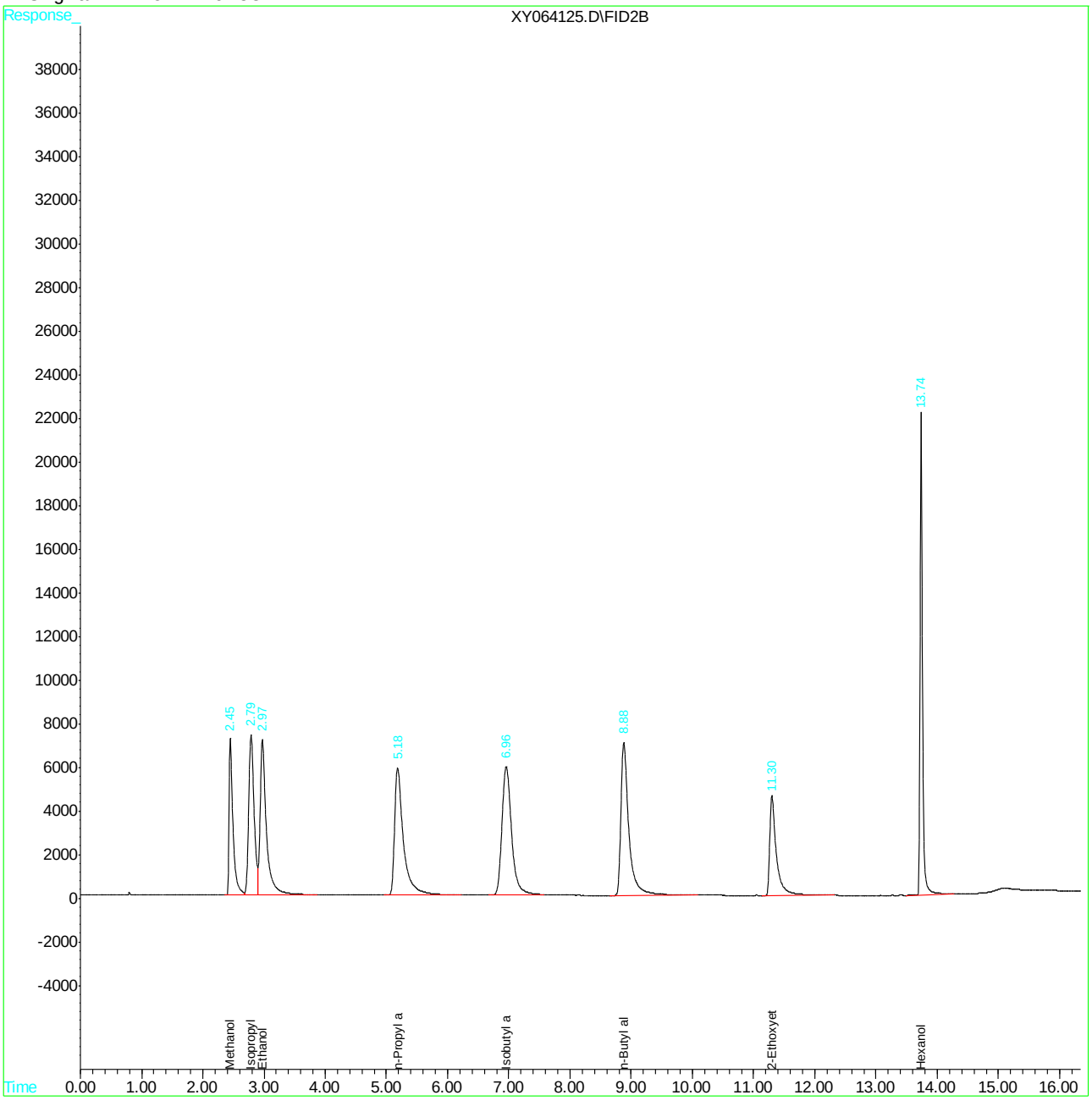
(f)=RT Delta > 1/2 Window (m)=manual int.

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

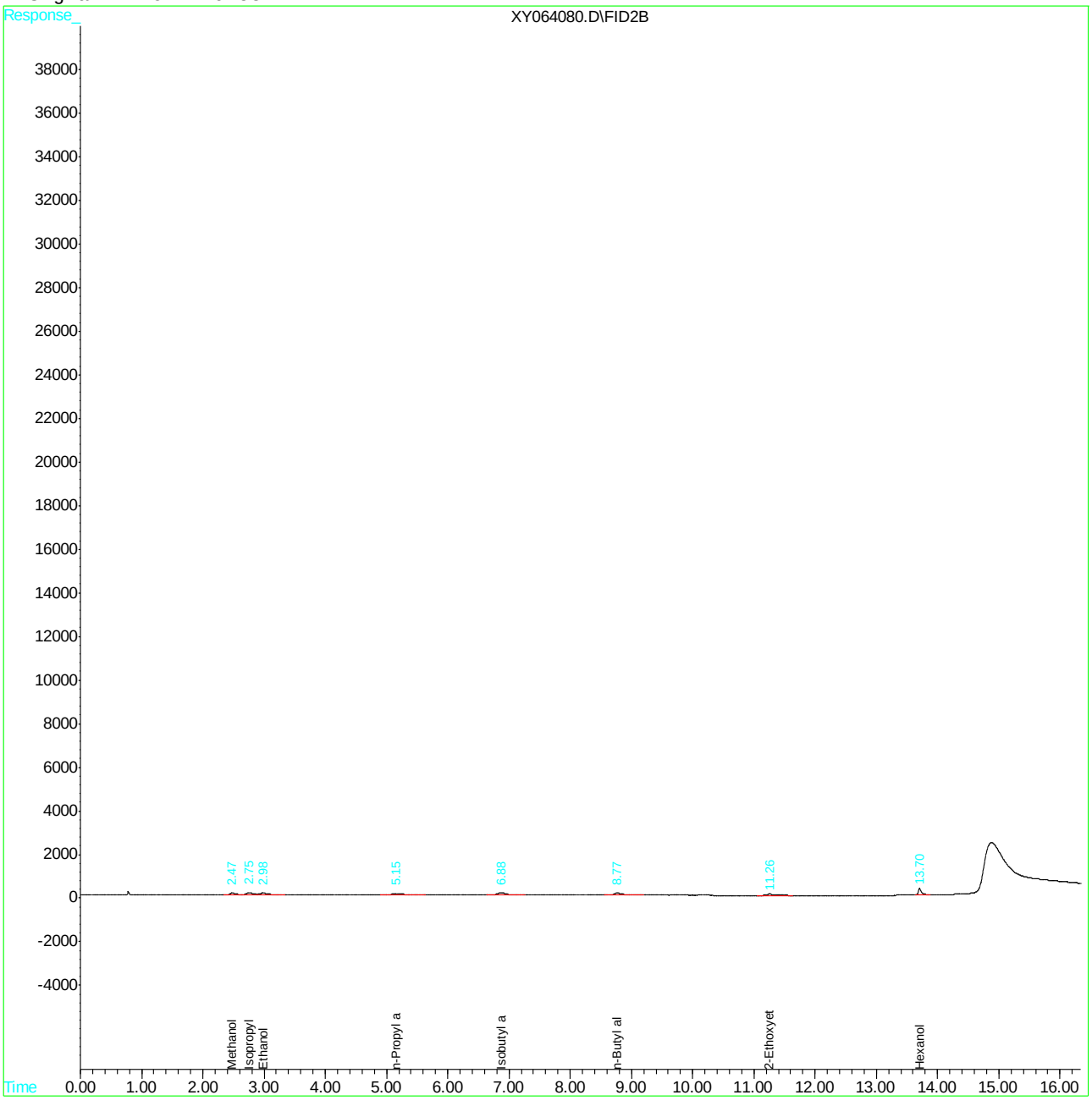
(f)=RT Delta > 1/2 Window (m)=manual int.

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



XY064080.D D8015.M Tue May 03 07:44:28 2016 Page 2

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

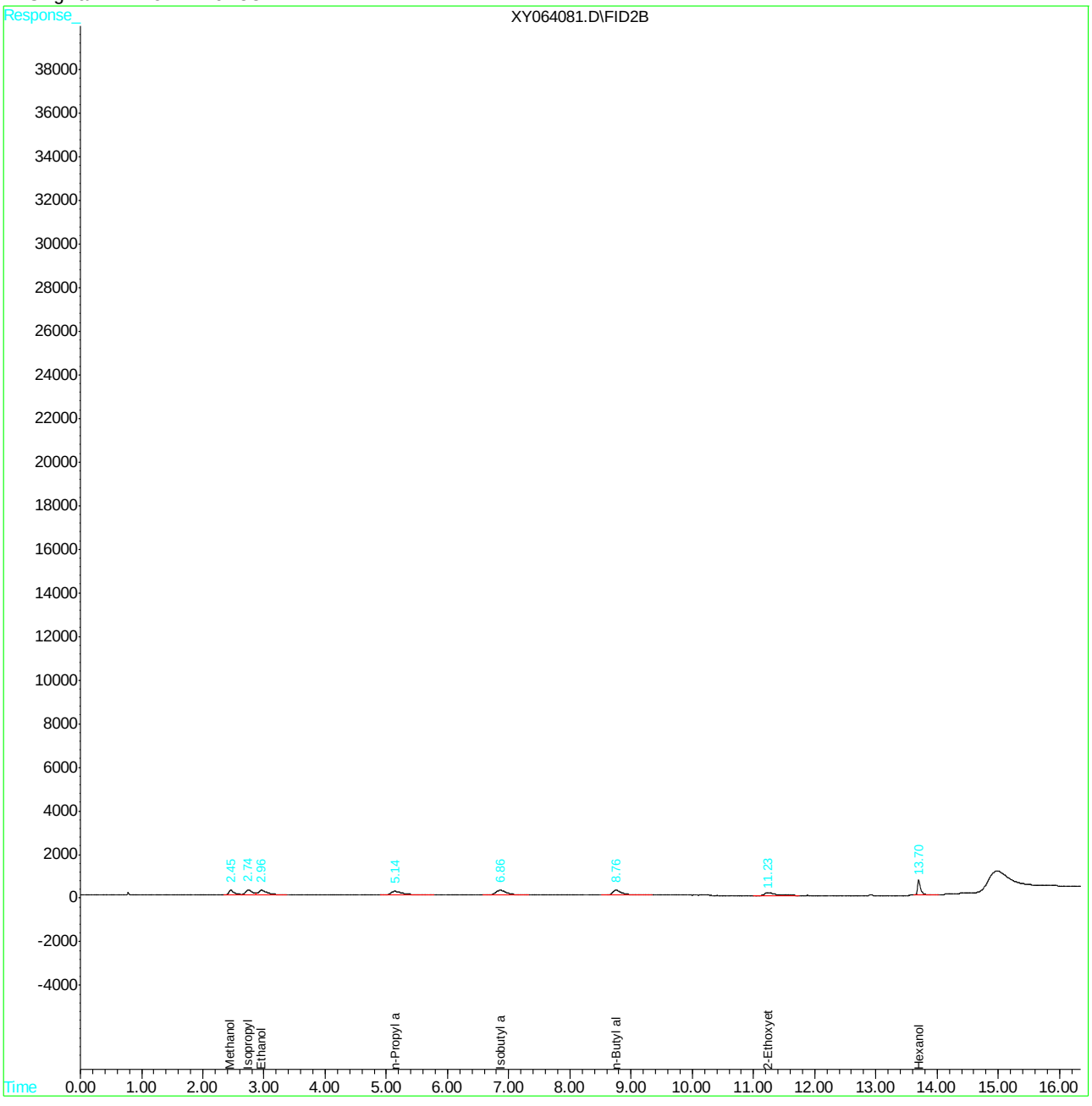
(f)=RT Delta > 1/2 Window (m)=manual int.

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

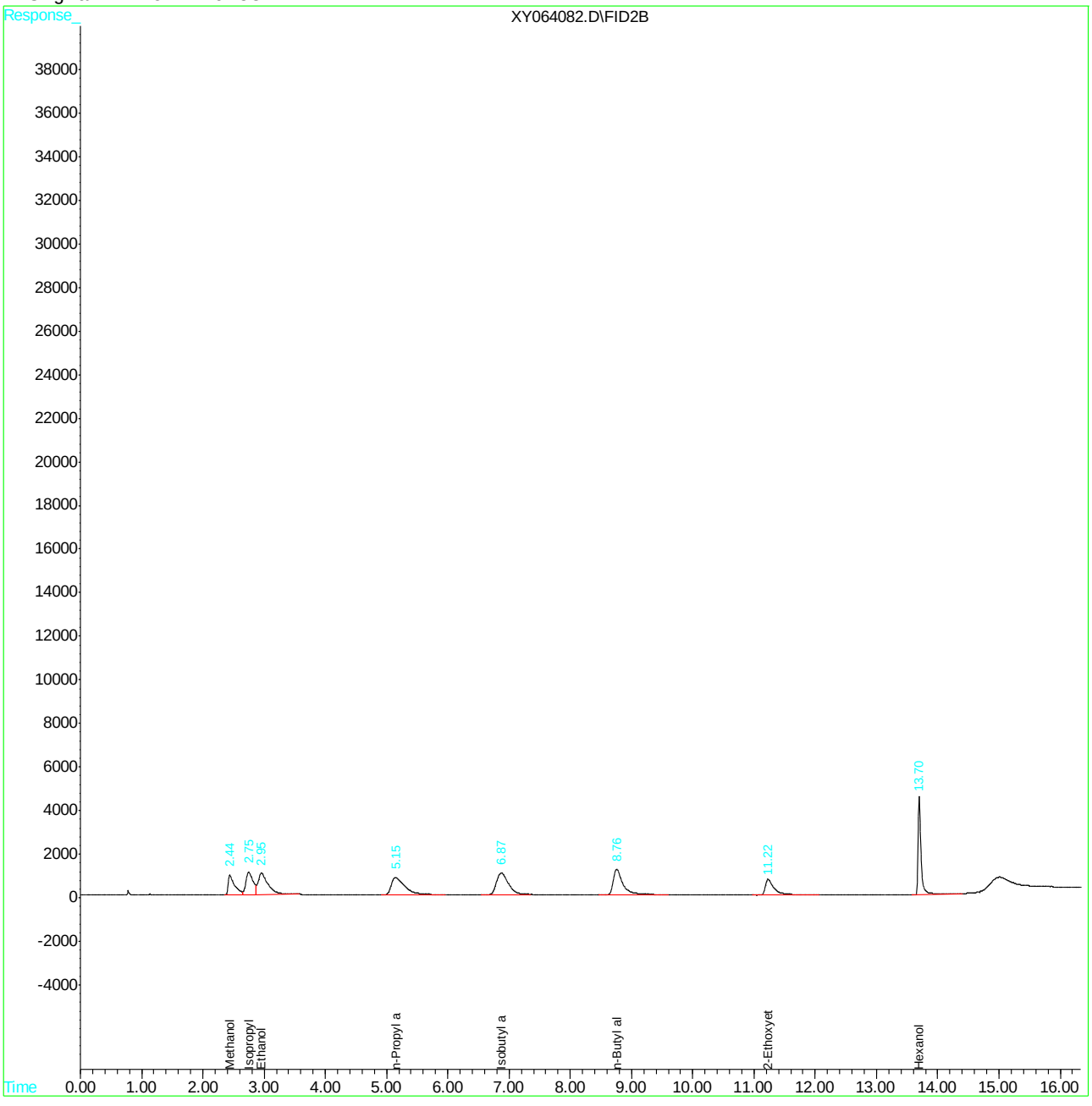
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064082.D D8015.M Tue May 03 07:44:31 2016 Page 1

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

13.5.4

13

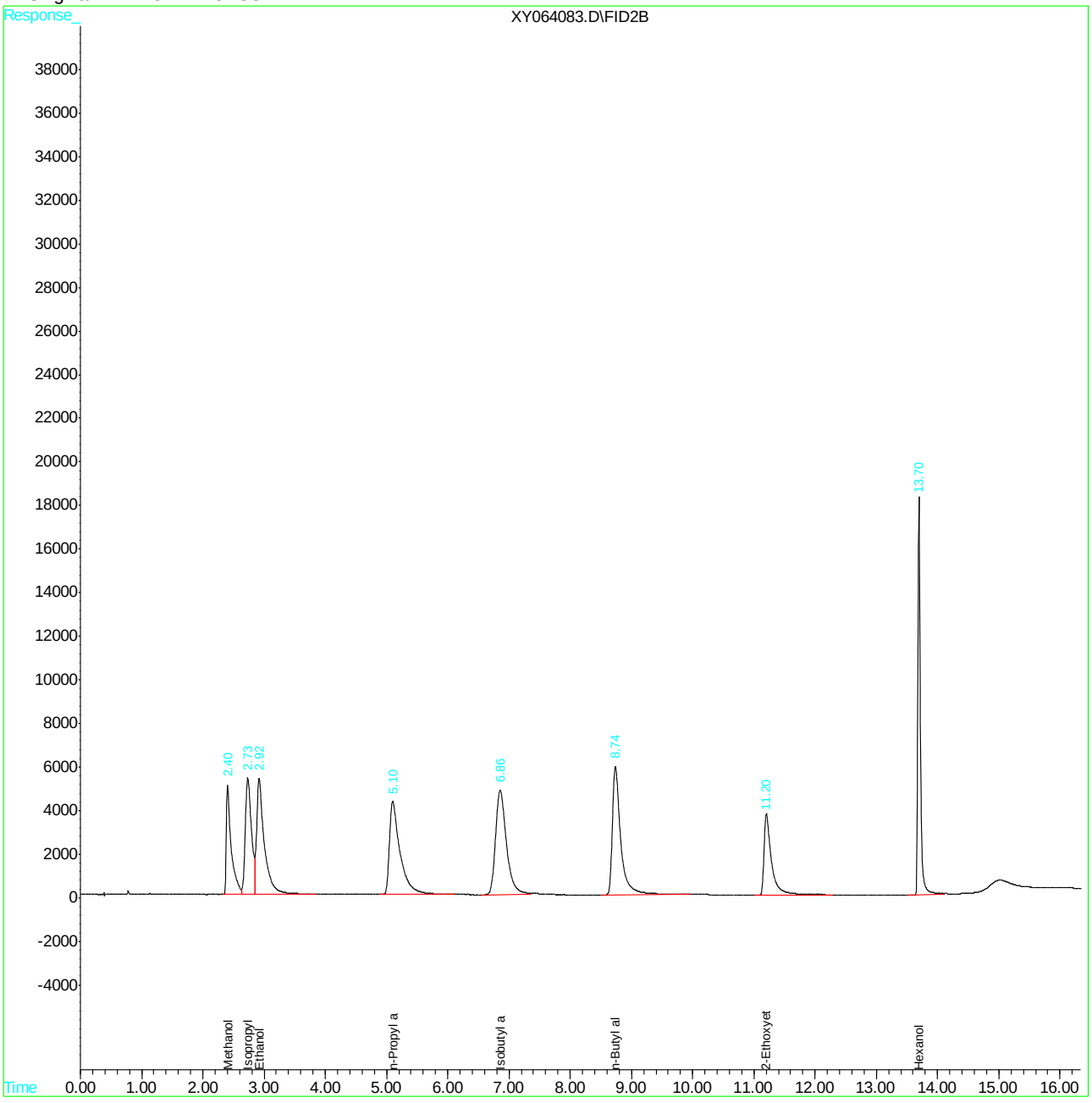
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064083.D D8015.M Tue May 03 07:44:32 2016

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

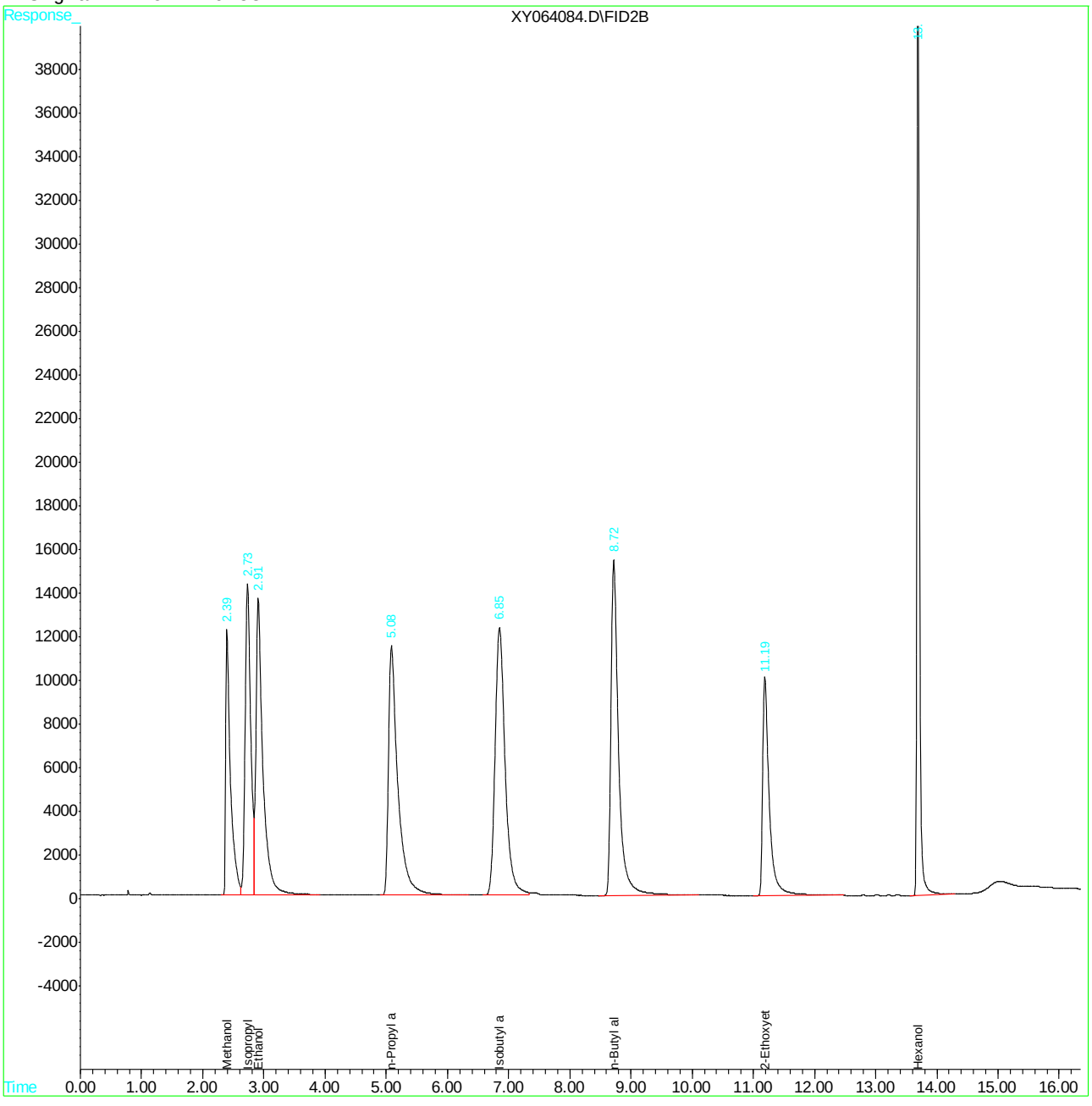
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064084.D D8015.M Tue May 03 07:44:34 2016 Page 1

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

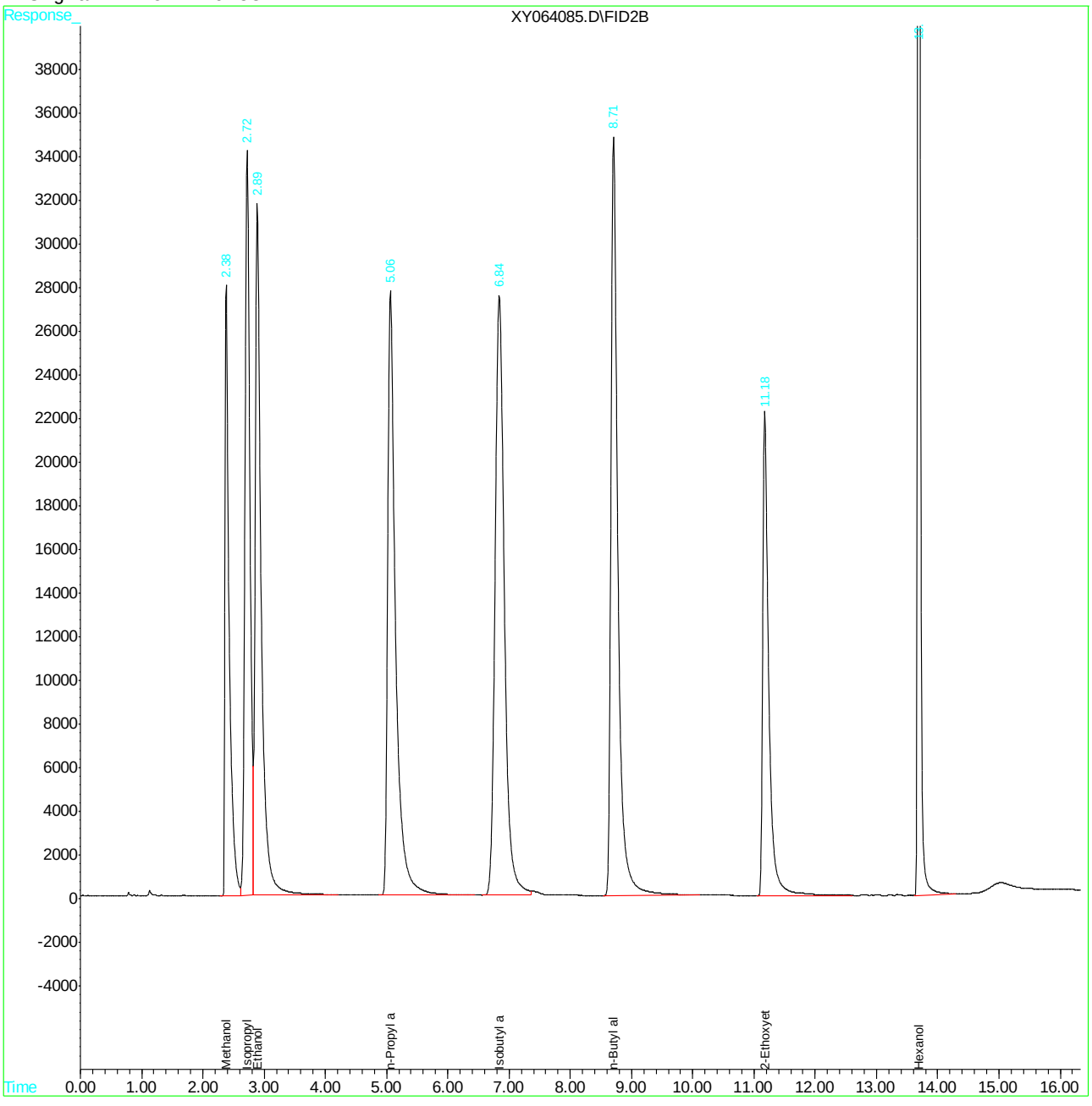
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064085.D D8015.M Tue May 03 07:44:35 2016 Page 1

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

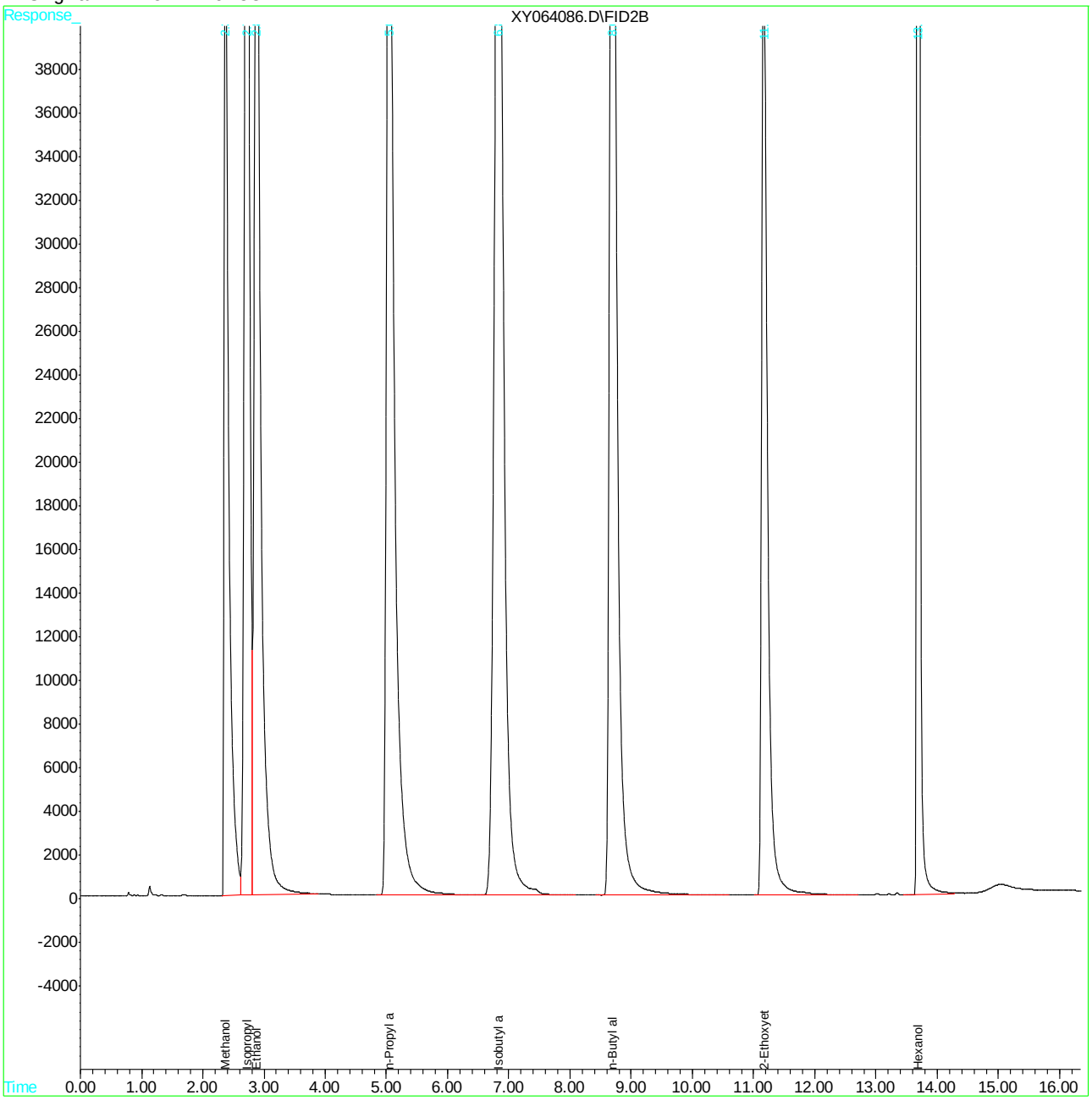
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064086.D D8015.M Tue May 03 07:44:37 2016 Page 1

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

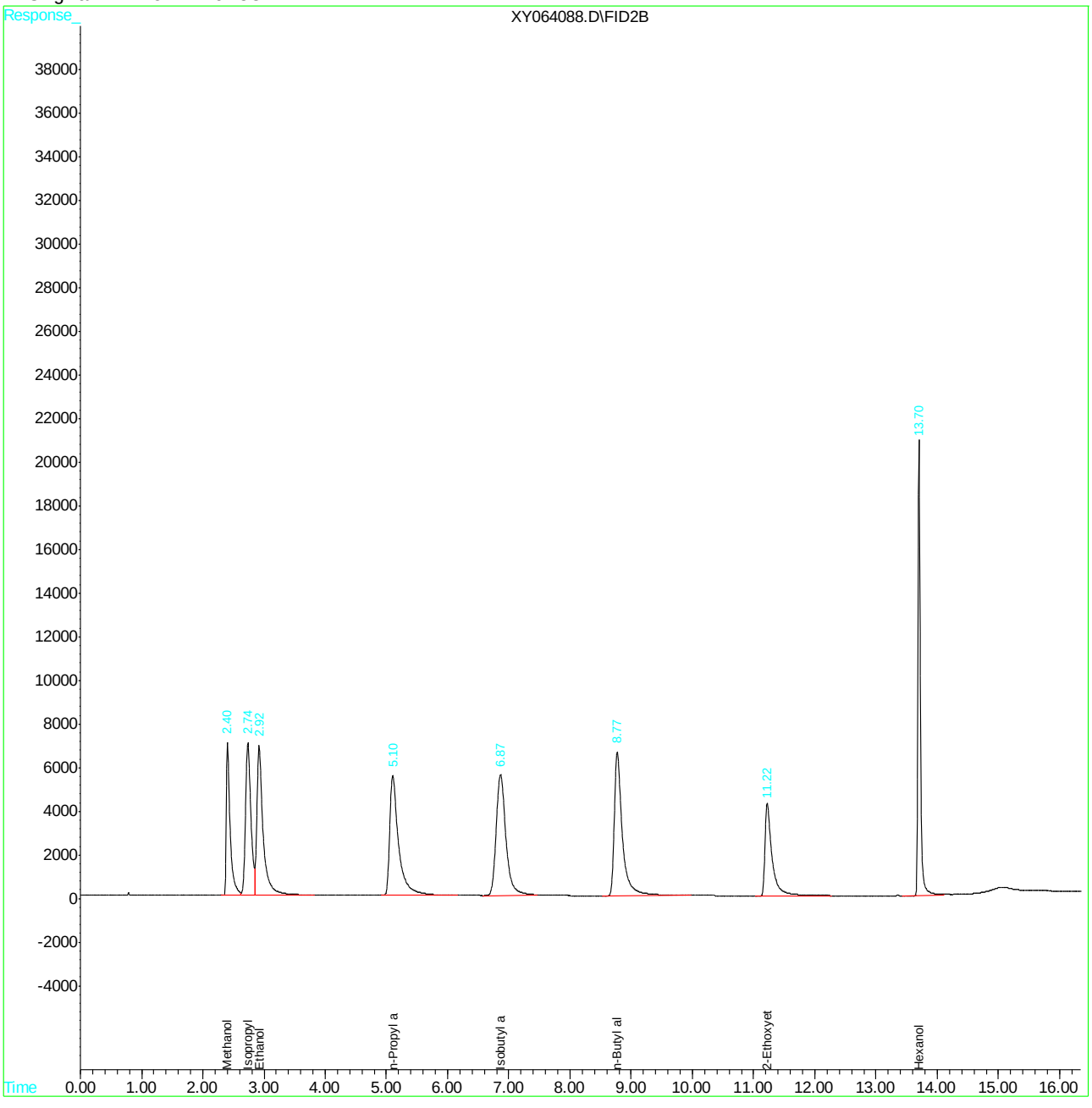
(f)=RT Delta > 1/2 Window (m)=manual int.

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

13.5.9

13

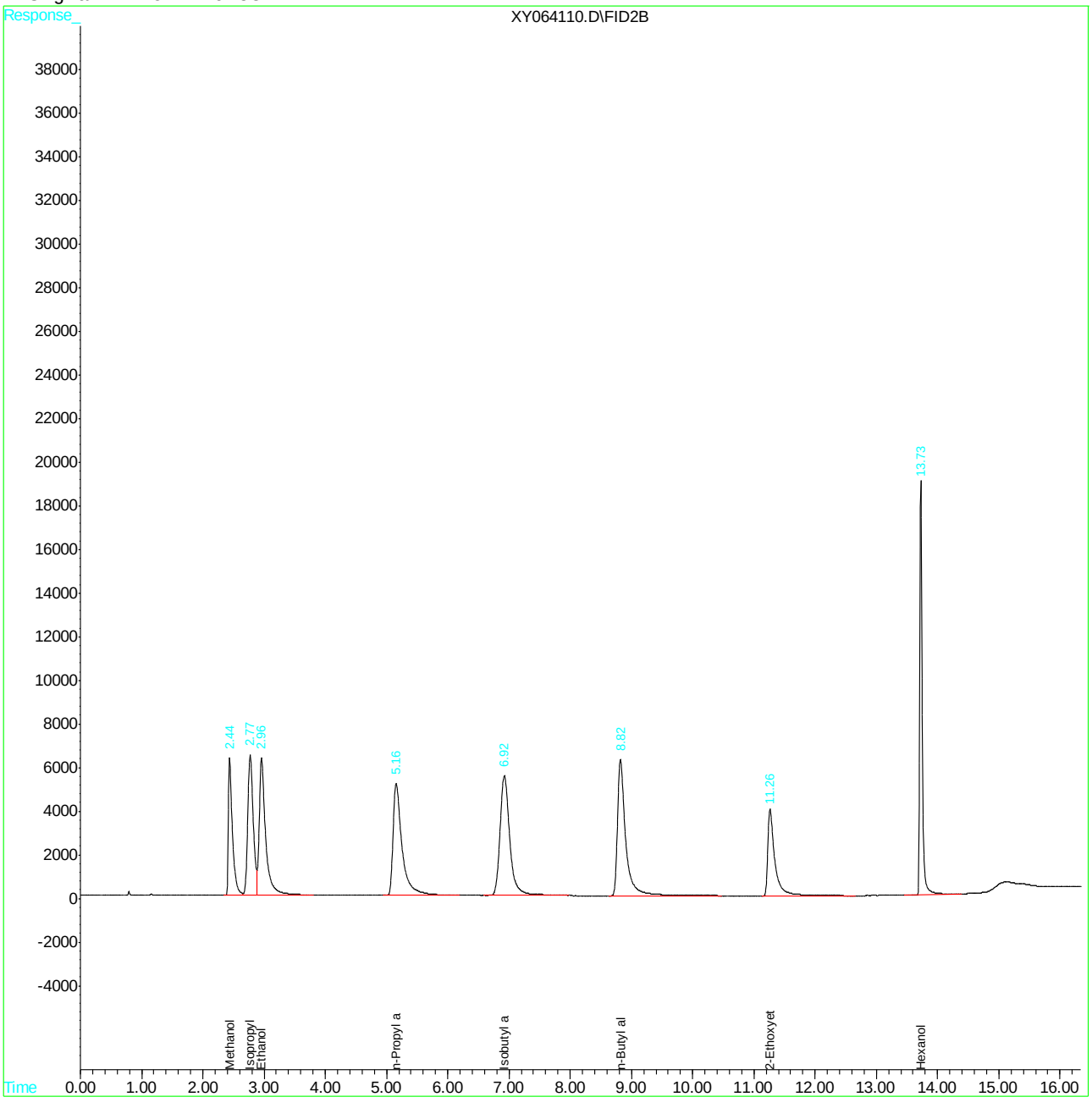
(f)=RT Delta > 1/2 Window (m)=manual int.

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
```

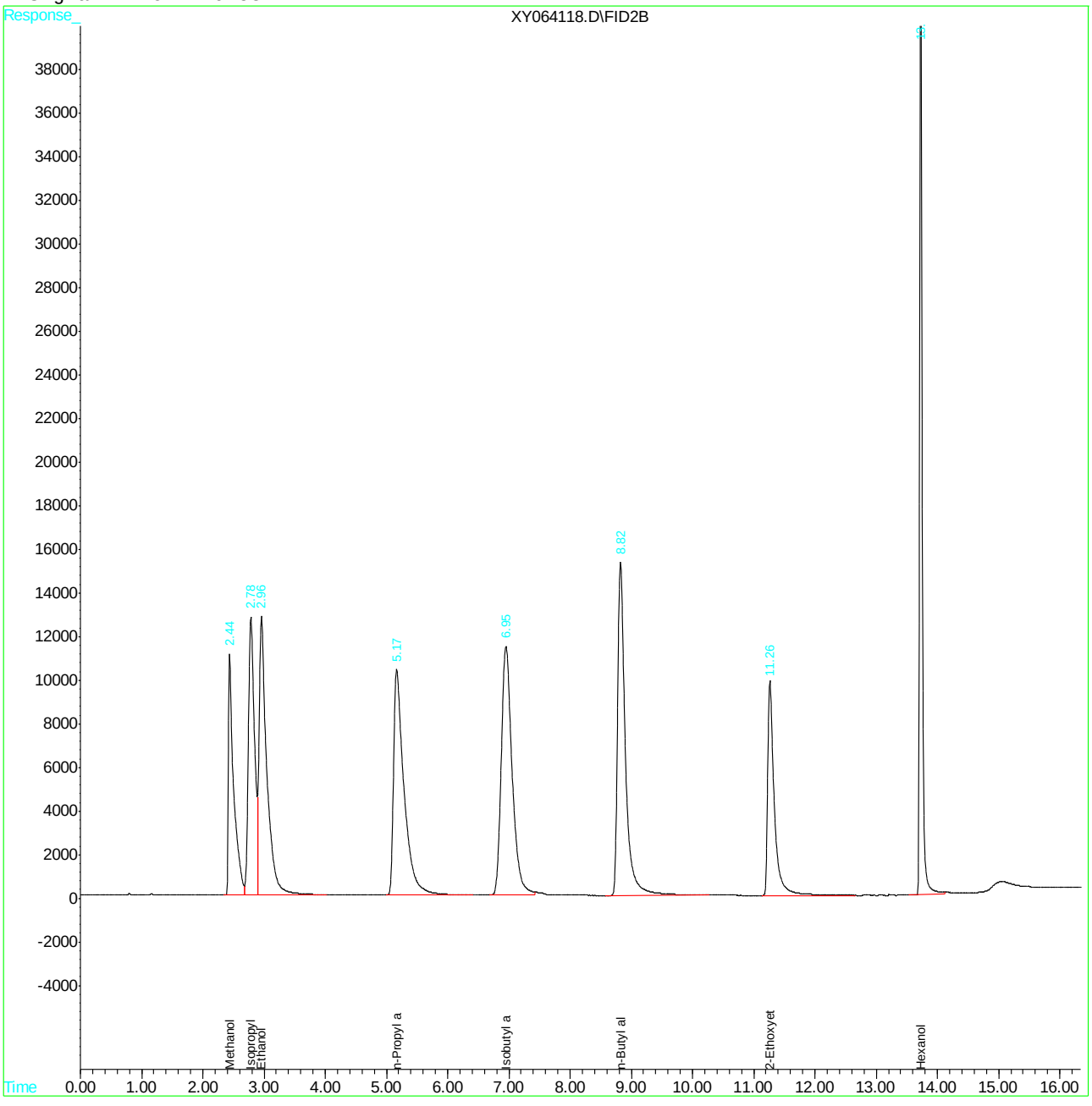
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	1288124	242.846 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 242.85%#			
Target Compounds			
1) Methanol	2.44	667405	245.478 mg/L
2) Isopropyl alcohol	2.79	881188	238.198 mg/L
3) Ethanol	2.96	1129682	259.428 mg/L
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
```

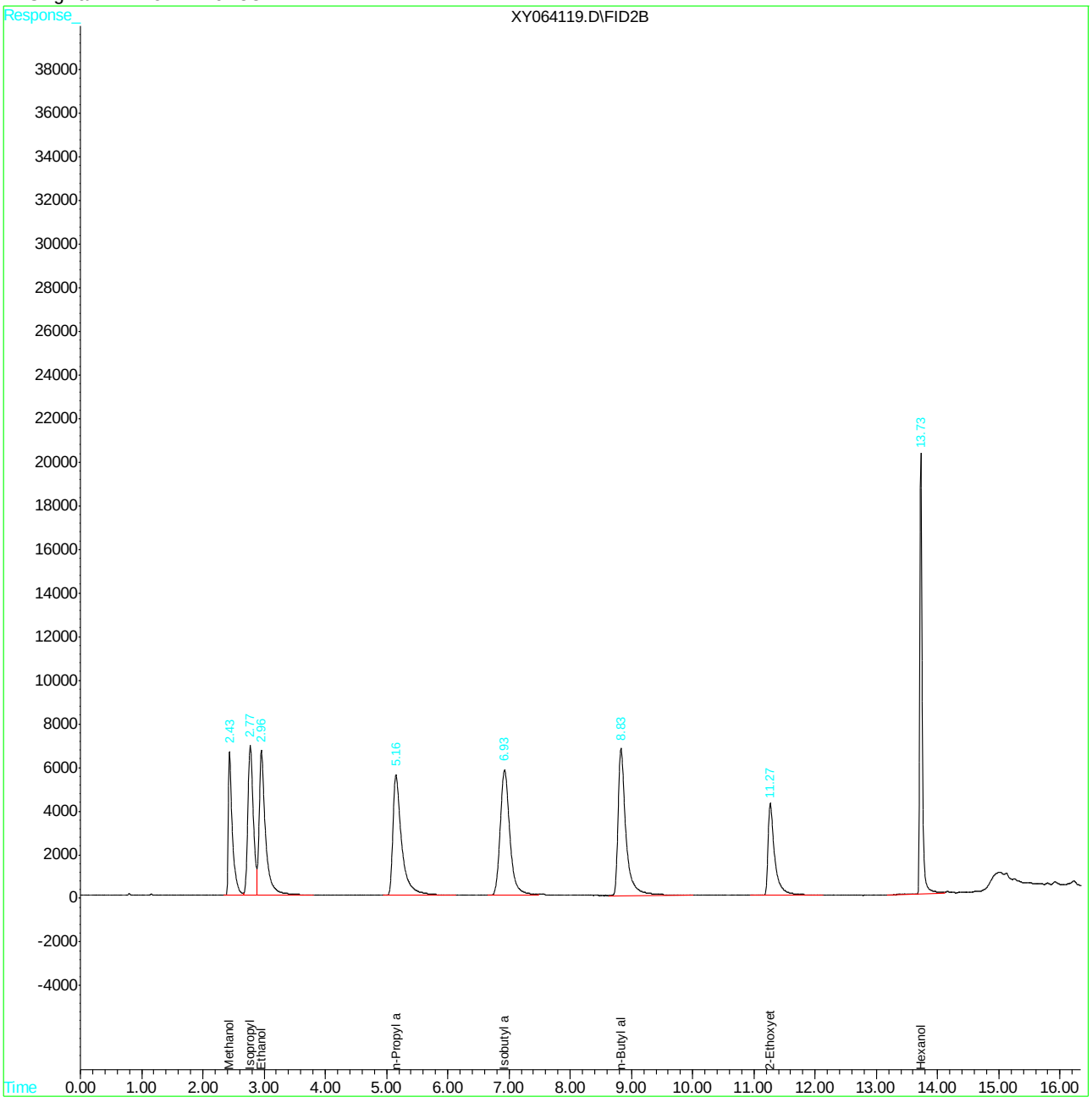
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.73	560482	105.666 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 105.67%			
Target Compounds			
1) Methanol	2.44	301701	110.968 mg/L
2) Isopropyl alcohol	2.78	421608	113.967 mg/L
3) Ethanol	2.96	478428	109.870 mg/L
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

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

13.5.12

13

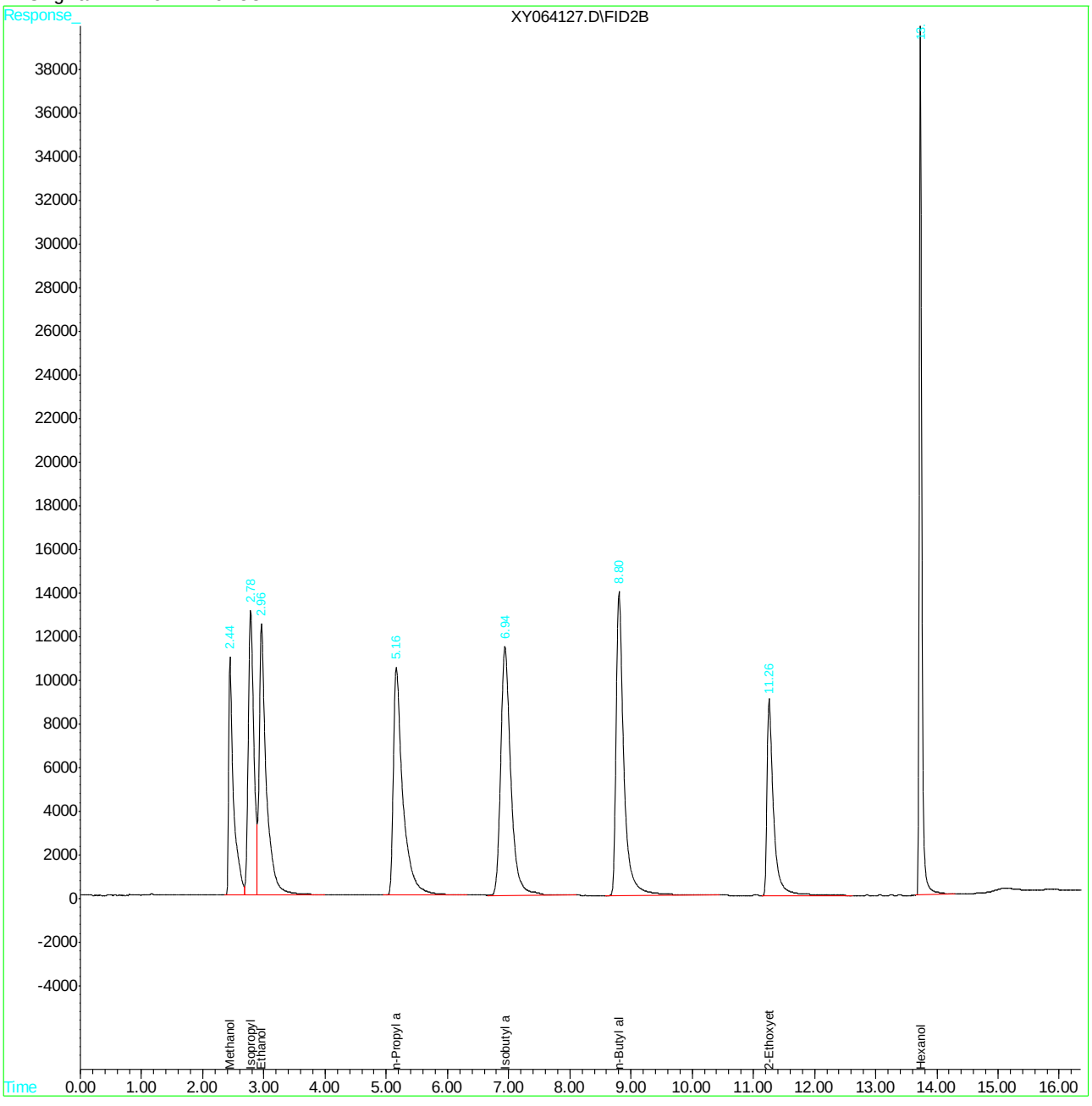
(f)=RT Delta > 1/2 Window (m)=manual int.

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 0640 71	CC 2728-4	NA	W	1.0	1ul	1		NA	✓	✓ 100ul + 900ul 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				450ul + 250ul ✓
XY 86	7					8				stock ✓
XY 87	Blank					9				SH 5/2/16 ✓
XY 88	ICV 2772-4					10				~~100~~ 10ul - 1ml ✓
XY 89	CC 2772-4				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	ECC 2772-5	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	CC2772-4	NA	W	~~NA~~ 1mL	1mL	1		NA		100ul + 900ul
XY 11	BS	↓	↓	~~5.02g/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	ECC2772-5	NA				8		NA		250ul + 750ul
XY										
XY										
XY										
XY										
XY										
XY										
XY										
XY										
XY										
XY										
XY										
XY										
XY										
XY										
XY										
XY										
XY										

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										
XY										
XY										
XY										
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	↓	↓	↓	↓	↓ ↓
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07										
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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

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SGS ACCUTEST JC19473

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