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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

SGS Accutest Job Number: JC19759

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

Report to:

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Total number of pages in report: 770

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

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Sample Summary

Anderson, Mulholland & Associates

Job No: JC19759

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC19759-1	05/04/16	12:10	JV	05/06/16	AQ	Ground Water	S-43S
JC19759-2	05/04/16	14:45	TT	05/06/16	AQ	Ground Water	RA-11 GWD
JC19759-3	05/05/16	10:05	NR	05/06/16	AQ	Equipment Blank	EB 050516
JC19759-4	05/05/16	10:30	TT	05/06/16	AQ	Ground Water	RA-10GWS
JC19759-5	05/05/16	12:35	NR	05/06/16	AQ	Ground Water	S-43D
JC19759-6	05/05/16	13:45	TT	05/06/16	AQ	Ground Water	RA-10 GWD

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC19759
Site:	BMSMC, Building 5 Area, PR	**Report Date**	5/12/2016 4:34:00 PM

On 05/06/2016, 6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 4.6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC19759 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:** OP93693

- All samples were extracted within the recommended method holding time.
- Sample(s) JC19759-1MS, JC19759-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 1,4-Dioxane are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JC19759-2: Elevated detection limit due to limited volume of sample extracted.
- JC19759-4: Elevated detection limit due to limited volume of sample extracted.
- JC19759-6: Elevated detection limit due to limited volume of sample extracted.
- JC19759-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- JC19759-5 for Nitrobenzene-d5: Outside control limits due to dilution.
- JC19759-5 for 2-Fluorophenol: Outside control limits due to dilution.
- JC19759-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- JC19759-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- JC19759-6 for Terphenyl-d14: Outside control limits due to dilution.
- JC19759-2 for Phenol-d5: Outside control limits due to dilution.
- JC19759-5 for Phenol-d5: Outside control limits due to dilution.
- JC19759-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- JC19759-2 for Terphenyl-d14: Outside control limits due to dilution.
- JC19759-2 for 2-Fluorophenol: Outside control limits due to dilution.
- JC19759-4 for Terphenyl-d14: Outside control limits due to dilution.
- JC19759-6 for Phenol-d5: Outside control limits due to dilution.
- JC19759-6 for Nitrobenzene-d5: Outside control limits due to dilution.
- JC19759-6 for 2-Fluorophenol: Outside control limits due to dilution.
- JC19759-6 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- JC19759-2 for Nitrobenzene-d5: Outside control limits due to dilution.
- JC19759-6 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- JC19759-5 for Terphenyl-d14: Outside control limits due to dilution.
- JC19759-4 for Phenol-d5: Outside control limits due to dilution.
- JC19759-4 for Nitrobenzene-d5: Outside control limits due to dilution.
- JC19759-1 for Nitrobenzene-d5: Outside control limits due to dilution.
- JC19759-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP93693

- JC19759-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- JC19759-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- JC19759-1 for 2-Fluorophenol: Outside control limits due to dilution.
- JC19759-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- JC19759-1 for Terphenyl-d14: Outside control limits due to dilution.
- JC19759-1 for Phenol-d5: Outside control limits due to dilution.
- JC19759-4 for 2-Fluorophenol: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP93693A

- All samples were extracted within the recommended method holding time.
- Sample(s) JC19759-3MS, JC19759-3MSD 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, Naphthalene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,4-Dioxane, Naphthalene are outside control limits. Outside control limits due to matrix interference.
- JC19759-2: Elevated detection limit due to limited volume of sample extracted.
- JC19759-4: Elevated detection limit due to limited volume of sample extracted.
- JC19759-6: Elevated detection limit due to limited volume of sample extracted.

Extractables by GC By Method SW846 8081B

Matrix: AQ **Batch ID:** OP93694

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC19759-2MS, JC19759-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for gamma-Chlordane are outside the QC limits.
- Matrix Spike Duplicate Recovery(s) for gamma-Chlordane are outside the QC limits.

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

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

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

Summary of Hits

Job Number: JC19759
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 05/04/16 thru 05/05/16

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC19759-1	**S-43S**					
Anthracene		1.3	1.1	0.22	ug/l	SW846 8270D
1,4-Dioxane		2570	53	35	ug/l	SW846 8270D
JC19759-2	**RA-11 GWD**					
1,4-Dioxane		5370	130	82	ug/l	SW846 8270D
JC19759-3	**EB 050516**					
1-Methylnaphthalene		0.53 J	1.0	0.27	ug/l	SW846 8270D
2-Methylnaphthalene		1.1	1.0	0.21	ug/l	SW846 8270D
Naphthalene		2.30	0.10	0.030	ug/l	SW846 8270D BY SIM
JC19759-4	**RA-10GWS**					
1,4-Dioxane		1330	62	41	ug/l	SW846 8270D
Naphthalene [a]		0.185	0.12	0.036	ug/l	SW846 8270D BY SIM
JC19759-5	**S-43D**					
Anthracene		1.6	1.1	0.22	ug/l	SW846 8270D
1,4-Dioxane		2230	110	69	ug/l	SW846 8270D
JC19759-6	**RA-10 GWD**					
1,4-Dioxane		1370	63	41	ug/l	SW846 8270D

(a) Elevated detection limit due to limited volume of sample extracted.

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	S-43S		
Lab Sample ID:	JC19759-1	**Date Sampled:**	05/04/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	6P25727.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
Run #2	P104683.D	50	05/09/16	LK	05/06/16	OP93693	EP4614

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	950 ml	1.0 ml

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	0.86	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	0.94	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.1	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	2.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.3	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.1	0.93	ug/l	
	3&4-Methylphenol	ND	2.1	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.3	1.5	ug/l	
108-95-2	Phenol	ND	2.1	0.41	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	0.97	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.20	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.14	ug/l	
98-86-2	Acetophenone	ND	2.1	0.22	ug/l	
120-12-7	Anthracene	1.3	1.1	0.22	ug/l	
1912-24-9	Atrazine	ND	2.1	0.47	ug/l	
100-52-7	Benzaldehyde	ND	5.3	0.30	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.36	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.43	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.48	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.25	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.36	ug/l	
86-74-8	Carbazole	ND	1.1	0.24	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:	S-43S		
Lab Sample ID:	JC19759-1	**Date Sampled:**	05/04/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	2.1	0.68	ug/l	
218-01-9	Chrysene	ND	1.1	0.19	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.42	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.39	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.1	0.53	ug/l	
123-91-1	1,4-Dioxane	2570 [a]	53	35	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.35	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.52	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.18	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.52	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.9	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.41	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.35	ug/l	
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	0.41	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	0.46	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.68	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.51	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.23	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.18	ug/l	
129-00-0	Pyrene	ND	1.1	0.23	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%	0% [b]	14-88%

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

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

Report of Analysis

Client Sample ID:	S-43S		
Lab Sample ID:	JC19759-1	**Date Sampled:**	05/04/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	24%	0% [b]	10-110%
118-79-6	2,4,6-Tribromophenol	83%	0% [b]	39-149%
4165-60-0	Nitrobenzene-d5	67%	0% [b]	32-128%
321-60-8	2-Fluorobiphenyl	71%	0% [b]	35-119%
1718-51-0	Terphenyl-d14	75%	0% [b]	10-126%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

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:	S-43S		
Lab Sample ID:	JC19759-1	**Date Sampled:**	05/04/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	3M61153.D	1	05/07/16	JJ	05/06/16	OP93693A	E3M2875
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.031	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		24-125%
321-60-8	2-Fluorobiphenyl	71%		19-127%
1718-51-0	Terphenyl-d14	74%		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:	S-43S		
Lab Sample ID:	JC19759-1	**Date Sampled:**	05/04/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	4G67979.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782
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	90%		26-132%
877-09-8	Tetrachloro-m-xylene	78%		26-132%
2051-24-3	Decachlorobiphenyl	101%		10-118%
2051-24-3	Decachlorobiphenyl	86%		10-118%

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:	RA-11 GWD		
Lab Sample ID:	JC19759-2	**Date Sampled:**	05/04/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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 [a]	6P25728.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
Run #2	P104681.D	100	05/09/16	LK	05/06/16	OP93693	EP4614

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2	800 ml	1.0 ml

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	6.3	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.3	1.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.5	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	6.3	3.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	13	1.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	6.3	1.6	ug/l	
95-48-7	2-Methylphenol	ND	2.5	1.1	ug/l	
	3&4-Methylphenol	ND	2.5	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	6.3	1.2	ug/l	
100-02-7	4-Nitrophenol	ND	13	1.4	ug/l	
87-86-5	Pentachlorophenol	ND	6.3	1.7	ug/l	
108-95-2	Phenol	ND	2.5	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	6.3	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.3	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.3	1.2	ug/l	
83-32-9	Acenaphthene	ND	1.3	0.24	ug/l	
208-96-8	Acenaphthylene	ND	1.3	0.17	ug/l	
98-86-2	Acetophenone	ND	2.5	0.26	ug/l	
120-12-7	Anthracene	ND	1.3	0.26	ug/l	
1912-24-9	Atrazine	ND	2.5	0.56	ug/l	
100-52-7	Benzaldehyde	ND	6.3	0.36	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.3	0.25	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.3	0.27	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.3	0.26	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.3	0.43	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.3	0.26	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.5	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.5	0.57	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.3	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.5	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	6.3	0.43	ug/l	
86-74-8	Carbazole	ND	1.3	0.29	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:	RA-11 GWD		
Lab Sample ID:	JC19759-2	**Date Sampled:**	05/04/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	2.5	0.81	ug/l	
218-01-9	Chrysene	ND	1.3	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.5	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.5	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.5	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.5	0.46	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.3	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.3	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	0.63	ug/l	
123-91-1	1,4-Dioxane	5370 [b]	130	82	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.3	0.41	ug/l	
132-64-9	Dibenzofuran	ND	6.3	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.5	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.5	0.29	ug/l	
84-66-2	Diethyl phthalate	ND	2.5	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.5	0.27	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.5	2.1	ug/l	
206-44-0	Fluoranthene	ND	1.3	0.21	ug/l	
86-73-7	Fluorene	ND	1.3	0.21	ug/l	
118-74-1	Hexachlorobenzene	ND	1.3	0.41	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.3	0.62	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	13	3.5	ug/l	
67-72-1	Hexachloroethane	ND	2.5	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.3	0.42	ug/l	
78-59-1	Isophorone	ND	2.5	0.35	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.3	0.33	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.3	0.26	ug/l	
88-74-4	2-Nitroaniline	ND	6.3	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	6.3	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	6.3	0.55	ug/l	
98-95-3	Nitrobenzene	ND	2.5	0.80	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.5	0.60	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.3	0.28	ug/l	
85-01-8	Phenanthrene	ND	1.3	0.22	ug/l	
129-00-0	Pyrene	ND	1.3	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%	0% [c]	14-88%

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

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

Report of Analysis

Client Sample ID:	RA-11 GWD		
Lab Sample ID:	JC19759-2	**Date Sampled:**	05/04/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	23%	0% c	10-110%
118-79-6	2,4,6-Tribromophenol	80%	0% c	39-149%
4165-60-0	Nitrobenzene-d5	66%	0% c	32-128%
321-60-8	2-Fluorobiphenyl	69%	0% c	35-119%
1718-51-0	Terphenyl-d14	70%	0% c	10-126%

(a) Elevated detection limit due to limited volume of sample extracted.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

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:	RA-11 GWD		
Lab Sample ID:	JC19759-2	**Date Sampled:**	05/04/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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 [a]	3M61154.D	1	05/07/16	JJ	05/06/16	OP93693A	E3M2875
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.13	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		24-125%
321-60-8	2-Fluorobiphenyl	69%		19-127%
1718-51-0	Terphenyl-d14	68%		10-119%

(a) Elevated detection limit due to limited volume of sample extracted.

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:	RA-11 GWD		
Lab Sample ID:	JC19759-2	**Date Sampled:**	05/04/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	4G67980.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782
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	79%		26-132%
877-09-8	Tetrachloro-m-xylene	76%		26-132%
2051-24-3	Decachlorobiphenyl	90%		10-118%
2051-24-3	Decachlorobiphenyl	80%		10-118%

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:	EB 050516		
Lab Sample ID:	JC19759-3	**Date Sampled:**	05/05/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/06/16
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	P104680.D	1	05/09/16	LK	05/06/16	OP93693	EP4614
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	0.83	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	2.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.1	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.90	ug/l	
	3&4-Methylphenol	ND	2.0	0.89	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	0.97	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.1	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.40	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.1	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	0.93	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	5.1	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.22	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	0.41	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	5.1	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	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:	EB 050516		
Lab Sample ID:	JC19759-3	**Date Sampled:**	05/05/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/06/16
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	2.0	0.66	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	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	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	0.56	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	5.1	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	0.24	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	0.50	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	0.34	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
90-12-0	1-Methylnaphthalene	0.53	1.0	0.27	ug/l	J
91-57-6	2-Methylnaphthalene	1.1	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.65	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.49	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	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	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-88%
4165-62-2	Phenol-d5	22%		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:	EB 050516		
Lab Sample ID:	JC19759-3	**Date Sampled:**	05/05/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/06/16
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	86%		39-149%
4165-60-0	Nitrobenzene-d5	72%		32-128%
321-60-8	2-Fluorobiphenyl	70%		35-119%
1718-51-0	Terphenyl-d14	76%		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:	EB 050516		
Lab Sample ID:	JC19759-3	**Date Sampled:**	05/05/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/06/16
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	3M61161.D	1	05/09/16	LK	05/06/16	OP93693A	E3M2876
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	2.30	0.10	0.030	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		24-125%
321-60-8	2-Fluorobiphenyl	66%		19-127%
1718-51-0	Terphenyl-d14	78%		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:	EB 050516		
Lab Sample ID:	JC19759-3	**Date Sampled:**	05/05/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/06/16
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	4G67981.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782
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	106%		26-132%
877-09-8	Tetrachloro-m-xylene	99%		26-132%
2051-24-3	Decachlorobiphenyl	60%		10-118%
2051-24-3	Decachlorobiphenyl	53%		10-118%

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:	RA-10GWS		
Lab Sample ID:	JC19759-4	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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 [a]	6P25730.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
Run #2	P104684.D	50	05/09/16	LK	05/06/16	OP93693	EP4614

	Initial Volume	Final Volume
Run #1	810 ml	1.0 ml
Run #2	810 ml	1.0 ml

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	6.2	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.2	1.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.5	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	6.2	3.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	12	1.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	6.2	1.6	ug/l	
95-48-7	2-Methylphenol	ND	2.5	1.1	ug/l	
	3&4-Methylphenol	ND	2.5	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	6.2	1.2	ug/l	
100-02-7	4-Nitrophenol	ND	12	1.4	ug/l	
87-86-5	Pentachlorophenol	ND	6.2	1.7	ug/l	
108-95-2	Phenol	ND	2.5	0.48	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	6.2	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.2	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.2	1.1	ug/l	
83-32-9	Acenaphthene	ND	1.2	0.24	ug/l	
208-96-8	Acenaphthylene	ND	1.2	0.17	ug/l	
98-86-2	Acetophenone	ND	2.5	0.26	ug/l	
120-12-7	Anthracene	ND	1.2	0.26	ug/l	
1912-24-9	Atrazine	ND	2.5	0.55	ug/l	
100-52-7	Benzaldehyde	ND	6.2	0.36	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.2	0.25	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.2	0.26	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.2	0.25	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.2	0.42	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.2	0.25	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.5	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.5	0.56	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.2	0.26	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.5	0.29	ug/l	
106-47-8	4-Chloroaniline	ND	6.2	0.42	ug/l	
86-74-8	Carbazole	ND	1.2	0.28	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:	RA-10GWS		
Lab Sample ID:	JC19759-4	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	2.5	0.80	ug/l	
218-01-9	Chrysene	ND	1.2	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.5	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.5	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.5	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.5	0.45	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.2	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.2	0.59	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	0.63	ug/l	
123-91-1	1,4-Dioxane	1330 [b]	62	41	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.2	0.41	ug/l	
132-64-9	Dibenzofuran	ND	6.2	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.5	0.61	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.5	0.29	ug/l	
84-66-2	Diethyl phthalate	ND	2.5	0.32	ug/l	
131-11-3	Dimethyl phthalate	ND	2.5	0.27	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.5	2.0	ug/l	
206-44-0	Fluoranthene	ND	1.2	0.21	ug/l	
86-73-7	Fluorene	ND	1.2	0.21	ug/l	
118-74-1	Hexachlorobenzene	ND	1.2	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.2	0.61	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	12	3.4	ug/l	
67-72-1	Hexachloroethane	ND	2.5	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.2	0.41	ug/l	
78-59-1	Isophorone	ND	2.5	0.34	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.2	0.32	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.2	0.26	ug/l	
88-74-4	2-Nitroaniline	ND	6.2	0.34	ug/l	
99-09-2	3-Nitroaniline	ND	6.2	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	6.2	0.54	ug/l	
98-95-3	Nitrobenzene	ND	2.5	0.79	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.5	0.59	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.2	0.27	ug/l	
85-01-8	Phenanthrene	ND	1.2	0.22	ug/l	
129-00-0	Pyrene	ND	1.2	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%	0% [c]	14-88%

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

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

Report of Analysis

Client Sample ID:	RA-10GWS		
Lab Sample ID:	JC19759-4	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	25%	0% c	10-110%
118-79-6	2,4,6-Tribromophenol	78%	0% c	39-149%
4165-60-0	Nitrobenzene-d5	61%	0% c	32-128%
321-60-8	2-Fluorobiphenyl	65%	0% c	35-119%
1718-51-0	Terphenyl-d14	75%	0% c	10-126%

(a) Elevated detection limit due to limited volume of sample extracted.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

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:	RA-10GWS		
Lab Sample ID:	JC19759-4	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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 [a]	3M61156.D	1	05/07/16	JJ	05/06/16	OP93693A	E3M2875
Run #2							

	Initial Volume	Final Volume
Run #1	810 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	0.185	0.12	0.036	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	49%		24-125%
321-60-8	2-Fluorobiphenyl	71%		19-127%
1718-51-0	Terphenyl-d14	76%		10-119%

(a) Elevated detection limit due to limited volume of sample extracted.

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-10GWS		
Lab Sample ID:	JC19759-4	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	4G67982.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782
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	90%		26-132%
877-09-8	Tetrachloro-m-xylene	77%		26-132%
2051-24-3	Decachlorobiphenyl	57%		10-118%
2051-24-3	Decachlorobiphenyl	52%		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:	S-43D		
Lab Sample ID:	JC19759-5	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	6P25731.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
Run #2	P104682.D	100	05/09/16	LK	05/06/16	OP93693	EP4614

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	950 ml	1.0 ml

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	0.86	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	0.94	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.1	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	2.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.3	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.1	0.93	ug/l	
	3&4-Methylphenol	ND	2.1	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.3	1.5	ug/l	
108-95-2	Phenol	ND	2.1	0.41	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	0.97	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.20	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.14	ug/l	
98-86-2	Acetophenone	ND	2.1	0.22	ug/l	
120-12-7	Anthracene	1.6	1.1	0.22	ug/l	
1912-24-9	Atrazine	ND	2.1	0.47	ug/l	
100-52-7	Benzaldehyde	ND	5.3	0.30	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.36	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.43	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.48	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.25	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.36	ug/l	
86-74-8	Carbazole	ND	1.1	0.24	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:	S-43D		
Lab Sample ID:	JC19759-5	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	2.1	0.68	ug/l	
218-01-9	Chrysene	ND	1.1	0.19	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.42	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.39	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.1	0.53	ug/l	
123-91-1	1,4-Dioxane	2230 [a]	110	69	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.35	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.52	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.18	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.52	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.9	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.41	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.35	ug/l	
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	0.41	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	0.46	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.68	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.51	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.23	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.18	ug/l	
129-00-0	Pyrene	ND	1.1	0.23	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%	0% [b]	14-88%

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

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

Report of Analysis

Client Sample ID:	S-43D		
Lab Sample ID:	JC19759-5	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	27%	0% [b]	10-110%
118-79-6	2,4,6-Tribromophenol	95%	0% [b]	39-149%
4165-60-0	Nitrobenzene-d5	69%	0% [b]	32-128%
321-60-8	2-Fluorobiphenyl	75%	0% [b]	35-119%
1718-51-0	Terphenyl-d14	89%	0% [b]	10-126%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

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:	S-43D		
Lab Sample ID:	JC19759-5	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	3M61157.D	1	05/07/16	JJ	05/06/16	OP93693A	E3M2875
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.031	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	54%		24-125%
321-60-8	2-Fluorobiphenyl	77%		19-127%
1718-51-0	Terphenyl-d14	86%		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:	S-43D		
Lab Sample ID:	JC19759-5	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	4G67983.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782
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	94%		26-132%
877-09-8	Tetrachloro-m-xylene	78%		26-132%
2051-24-3	Decachlorobiphenyl	106%		10-118%
2051-24-3	Decachlorobiphenyl	88%		10-118%

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:	RA-10 GWD		
Lab Sample ID:	JC19759-6	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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 [a]	6P25732.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
Run #2	P104685.D	50	05/09/16	LK	05/06/16	OP93693	EP4614

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2	800 ml	1.0 ml

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	6.3	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.3	1.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.5	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	6.3	3.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	13	1.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	6.3	1.6	ug/l	
95-48-7	2-Methylphenol	ND	2.5	1.1	ug/l	
	3&4-Methylphenol	ND	2.5	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	6.3	1.2	ug/l	
100-02-7	4-Nitrophenol	ND	13	1.4	ug/l	
87-86-5	Pentachlorophenol	ND	6.3	1.7	ug/l	
108-95-2	Phenol	ND	2.5	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	6.3	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.3	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.3	1.2	ug/l	
83-32-9	Acenaphthene	ND	1.3	0.24	ug/l	
208-96-8	Acenaphthylene	ND	1.3	0.17	ug/l	
98-86-2	Acetophenone	ND	2.5	0.26	ug/l	
120-12-7	Anthracene	ND	1.3	0.26	ug/l	
1912-24-9	Atrazine	ND	2.5	0.56	ug/l	
100-52-7	Benzaldehyde	ND	6.3	0.36	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.3	0.25	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.3	0.27	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.3	0.26	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.3	0.43	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.3	0.26	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.5	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.5	0.57	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.3	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.5	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	6.3	0.43	ug/l	
86-74-8	Carbazole	ND	1.3	0.29	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:	RA-10 GWD		
Lab Sample ID:	JC19759-6	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	2.5	0.81	ug/l	
218-01-9	Chrysene	ND	1.3	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.5	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.5	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.5	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.5	0.46	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.3	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.3	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	0.63	ug/l	
123-91-1	1,4-Dioxane	1370 [b]	63	41	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.3	0.41	ug/l	
132-64-9	Dibenzofuran	ND	6.3	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.5	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.5	0.29	ug/l	
84-66-2	Diethyl phthalate	ND	2.5	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.5	0.27	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.5	2.1	ug/l	
206-44-0	Fluoranthene	ND	1.3	0.21	ug/l	
86-73-7	Fluorene	ND	1.3	0.21	ug/l	
118-74-1	Hexachlorobenzene	ND	1.3	0.41	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.3	0.62	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	13	3.5	ug/l	
67-72-1	Hexachloroethane	ND	2.5	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.3	0.42	ug/l	
78-59-1	Isophorone	ND	2.5	0.35	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.3	0.33	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.3	0.26	ug/l	
88-74-4	2-Nitroaniline	ND	6.3	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	6.3	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	6.3	0.55	ug/l	
98-95-3	Nitrobenzene	ND	2.5	0.80	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.5	0.60	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.3	0.28	ug/l	
85-01-8	Phenanthrene	ND	1.3	0.22	ug/l	
129-00-0	Pyrene	ND	1.3	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%	0% [c]	14-88%

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

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

Report of Analysis

Client Sample ID:	RA-10 GWD		
Lab Sample ID:	JC19759-6	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	29%	0% c	10-110%
118-79-6	2,4,6-Tribromophenol	88%	0% c	39-149%
4165-60-0	Nitrobenzene-d5	70%	0% c	32-128%
321-60-8	2-Fluorobiphenyl	74%	0% c	35-119%
1718-51-0	Terphenyl-d14	83%	0% c	10-126%

(a) Elevated detection limit due to limited volume of sample extracted.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

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:	RA-10 GWD		
Lab Sample ID:	JC19759-6	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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 [a]	3M61158.D	1	05/07/16	JJ	05/06/16	OP93693A	E3M2875
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.13	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		24-125%
321-60-8	2-Fluorobiphenyl	71%		19-127%
1718-51-0	Terphenyl-d14	79%		10-119%

(a) Elevated detection limit due to limited volume of sample extracted.

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:	RA-10 GWD		
Lab Sample ID:	JC19759-6	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/06/16
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	4G67984.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782
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	74%		26-132%
877-09-8	Tetrachloro-m-xylene	77%		26-132%
2051-24-3	Decachlorobiphenyl	55%		10-118%
2051-24-3	Decachlorobiphenyl	51%		10-118%

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

SGS **ACCUTEST - NJ**

CHAIN OF CUSTODY

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

PAGE 1 OF 1 PN

801219536110

SGS Accutest Quote #

Bottle Order Control #

SGS Accutest Job # JC19759

Client / Reporting Information

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

Project Information

Project Name: BMS Release Assessment
Street:
City / State: Humacao PR
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

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

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	SVOC-Method 8270D	LMA-Method 8015B	Pesticides-Method 8081B	1,4 Dioxane + Naphthalene by Method 8270D SIM	LAB USE ONLY
1	S-43S	☆	5/4/16	1210	JV	GW	7	3				4				X	X	X	X	E36
2	RA-11 GWD		5/4/16	1445	TT	GW	7	3				4				X	X	X	X	V14
3	EB050516		5/5/16	1005	NR	EB	7	3				4				X	X	X	X	
4	RA-10GWS		5/5/16	1030	TT	GW	7	3				4				X	X	X	X	
5	S-43D		5/5/16	1235	NR	GW	7	3				4				X	X	X	X	
6	RA-10GWD		5/5/16	1345	TT	GW	7	3				4				X	X	X	X	

INITIAL ASSESSMENT 2/28

LABEL VERIFICATION TV

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 Reports 1-methyl naphthalene with SVOC Method 8270D

☆ Field 2x300-e up for PEST 5/6/16

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]	5/5/16 1500	Fed Ex	FED EX	5/6/16 1000	DL
2						
3						
4						
5						

Custody Seal # 604/638 [x] Intact [ ] Not intact

Preserved where applicable [ ]

On Ice [x] Cooler Temp. 4.2 3.9 OC ID

JC19759: Chain of Custody
Page 1 of 3

SGS Accutest Sample Receipt Summary

Job Number: JC19759 **Client:** Anderson Mulholland **Project:** BMS Release

Date / Time Received: 5/6/2016 10:00:00 AM **Delivery Method:** FedEx **Airbill #'s:** 801219536110

Cooler Temps (Raw Measured) °C: Cooler 1: (4.2); Cooler 2: (3.9);

Cooler Temps (Corrected) °C: Cooler 1: (4.6); Cooler 2: (4.3);

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:	2		

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

1) -4: 1 of 2 8270 volumes rec'd preserved with HCL not requested on coc, limited volume for 8270. Preserved volume placed on HOLD SHELF.

SGS Accutest Sample - Problem Resolution

Accutest Job Number: JC19759

CSR: Tammy McCloskey **Response Date:** 5/9/2016

Response: Proceed as noted

JC19759: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC19759

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC19759-1 S-43S	Collected: 04-MAY-16 12:10 By: JV		Received: 06-MAY-16 By: DDH			
JC19759-1	SW846 8081B	06-MAY-16 16:28	BP	06-MAY-16	NG	P8081PESTTCL
JC19759-1	SW846 8270D BY SIM	07-MAY-16 02:47	JJ	06-MAY-16	RF	BSIM + NAP
JC19759-1	SW846 8270D	07-MAY-16 03:27	SB	06-MAY-16	RF	AB8270SL
JC19759-1	SW846 8270D	09-MAY-16 14:28	LK	06-MAY-16	RF	AB8270SL
JC19759-2 RA-11 GWD	Collected: 04-MAY-16 14:45 By: TT		Received: 06-MAY-16 By: DDH			
JC19759-2	SW846 8081B	06-MAY-16 16:43	BP	06-MAY-16	NG	P8081PESTTCL
JC19759-2	SW846 8270D BY SIM	07-MAY-16 03:19	JJ	06-MAY-16	RF	BSIM + NAP
JC19759-2	SW846 8270D	07-MAY-16 03:54	SB	06-MAY-16	RF	AB8270SL
JC19759-2	SW846 8270D	09-MAY-16 13:29	LK	06-MAY-16	RF	AB8270SL
JC19759-3 EB 050516	Collected: 05-MAY-16 10:05 By: NR		Received: 06-MAY-16 By: DDH			
JC19759-3	SW846 8081B	06-MAY-16 16:58	BP	06-MAY-16	NG	P8081PESTTCL
JC19759-3	SW846 8270D BY SIM	09-MAY-16 09:39	LK	06-MAY-16	RF	B8270SIM14DIOX,BSIM + NAP
JC19759-3	SW846 8270D	09-MAY-16 13:00	LK	06-MAY-16	RF	AB8270SL
JC19759-4 RA-10GWS	Collected: 05-MAY-16 10:30 By: TT		Received: 06-MAY-16 By: DDH			
JC19759-4	SW846 8081B	06-MAY-16 17:13	BP	06-MAY-16	NG	P8081PESTTCL
JC19759-4	SW846 8270D BY SIM	07-MAY-16 04:23	JJ	06-MAY-16	RF	BSIM + NAP
JC19759-4	SW846 8270D	07-MAY-16 04:46	SB	06-MAY-16	RF	AB8270SL
JC19759-4	SW846 8270D	09-MAY-16 14:57	LK	06-MAY-16	RF	AB8270SL
JC19759-5 S-43D	Collected: 05-MAY-16 12:35 By: NR		Received: 06-MAY-16 By: DDH			
JC19759-5	SW846 8081B	06-MAY-16 17:29	BP	06-MAY-16	NG	P8081PESTTCL
JC19759-5	SW846 8270D BY SIM	07-MAY-16 04:55	JJ	06-MAY-16	RF	BSIM + NAP
JC19759-5	SW846 8270D	07-MAY-16 05:13	SB	06-MAY-16	RF	AB8270SL
JC19759-5	SW846 8270D	09-MAY-16 13:58	LK	06-MAY-16	RF	AB8270SL

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC19759

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC19759-6	Collected: 05-MAY-16 13:45 By: TT		Received: 06-MAY-16 By: DDH			
RA-10 GWD						
JC19759-6	SW846 8081B	06-MAY-16 17:44	BP	06-MAY-16	NG	P8081PESTTCL
JC19759-6	SW846 8270D BY SIM	07-MAY-16 05:27	JJ	06-MAY-16	RF	BSIM + NAP
JC19759-6	SW846 8270D	07-MAY-16 05:39	SB	06-MAY-16	RF	AB8270SL
JC19759-6	SW846 8270D	09-MAY-16 15:26	LK	06-MAY-16	RF	AB8270SL

SGS Accutest Internal Chain of Custody

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/06/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19759-1.1	Secured Storage	Sahara Feliciano	05/06/16 12:40	Retrieve from Storage
JC19759-1.1	Sahara Feliciano	Secured Staging Area	05/06/16 12:40	Return to Storage
JC19759-1.1	Secured Staging Area	Ryan Fantasia	05/06/16 15:16	Retrieve from Storage
JC19759-1.1	Ryan Fantasia		05/06/16 18:31	Depleted
JC19759-1.1.1	Ryan Fantasia	Organics Prep	05/06/16 15:17	Extract from JC19759-1.1
JC19759-1.1.1	Organics Prep	Ryan Fantasia	05/06/16 20:14	Extract from JC19759-1.1
JC19759-1.1.1	Ryan Fantasia	Extract Storage	05/06/16 20:14	Return to Storage
JC19759-1.1.1	Extract Storage	Sean Block	05/07/16 00:04	Retrieve from Storage
JC19759-1.1.1	Sean Block	GCMS6P	05/07/16 00:04	Load on Instrument
JC19759-1.1.1	GCMS6P	Arielle Cocozza	05/09/16 11:34	Unload from Instrument
JC19759-1.1.1	Arielle Cocozza	Extract Freezer	05/09/16 11:34	Return to Storage
JC19759-1.2	Secured Storage	Sahara Feliciano	05/06/16 12:40	Retrieve from Storage
JC19759-1.2	Sahara Feliciano	Secured Staging Area	05/06/16 12:40	Return to Storage
JC19759-1.2	Secured Staging Area	Ryan Fantasia	05/06/16 15:16	Retrieve from Storage
JC19759-1.2	Ryan Fantasia		05/06/16 18:31	Depleted
JC19759-1.3	Secured Storage	Nicholas Goydish	05/06/16 12:28	Retrieve from Storage
JC19759-1.3	Nicholas Goydish		05/06/16 13:02	Depleted
JC19759-1.3.1	Nicholas Goydish	Organics Prep	05/06/16 12:28	Extract from JC19759-1.3
JC19759-1.3.1	Organics Prep	Nicholas Goydish	05/06/16 14:34	Extract from JC19759-1.3
JC19759-1.3.1	Nicholas Goydish	Extract Storage	05/06/16 14:34	Return to Storage
JC19759-1.3.1	Extract Storage	Dhara Saparia	05/06/16 15:39	Retrieve from Storage
JC19759-1.3.1	Dhara Saparia	GC4G	05/06/16 15:39	Load on Instrument
JC19759-1.3.1	GC4G	Brittany Piercy	05/09/16 08:05	Unload from Instrument
JC19759-1.3.1	Brittany Piercy	Extract Freezer	05/09/16 08:06	Return to Storage
JC19759-1.4	Secured Storage	Nicholas Goydish	05/06/16 12:28	Retrieve from Storage
JC19759-1.4	Nicholas Goydish		05/06/16 13:02	Depleted
JC19759-1.4.1	Nicholas Goydish	Organics Prep	05/06/16 12:28	Extract from JC19759-1.4
JC19759-1.4.1	Organics Prep	Nicholas Goydish	05/06/16 14:34	Extract from JC19759-1.4
JC19759-1.4.1	Nicholas Goydish	Extract Storage	05/06/16 14:34	Return to Storage
JC19759-1.4.1	Extract Storage	Dhara Saparia	05/06/16 15:39	Retrieve from Storage
JC19759-1.4.1	Dhara Saparia	GC4G	05/06/16 15:39	Load on Instrument
JC19759-1.4.1	GC4G	Brittany Piercy	05/09/16 08:05	Unload from Instrument
JC19759-1.4.1	Brittany Piercy	Extract Freezer	05/09/16 08:06	Return to Storage
JC19759-2.1	Secured Storage	Sahara Feliciano	05/06/16 12:40	Retrieve from Storage
JC19759-2.1	Sahara Feliciano	Secured Staging Area	05/06/16 12:40	Return to Storage
JC19759-2.1	Secured Staging Area	Ryan Fantasia	05/06/16 15:16	Retrieve from Storage
JC19759-2.1	Ryan Fantasia		05/06/16 18:31	Depleted

SGS Accutest Internal Chain of Custody

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/06/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19759-2.1.1	Ryan Fantasia	Organics Prep	05/06/16 15:17	Extract from JC19759-2.1
JC19759-2.1.1	Organics Prep	Ryan Fantasia	05/06/16 20:14	Extract from JC19759-2.1
JC19759-2.1.1	Ryan Fantasia	Extract Storage	05/06/16 20:14	Return to Storage
JC19759-2.1.1	Extract Storage	Sean Block	05/07/16 00:04	Retrieve from Storage
JC19759-2.1.1	Sean Block	GCMS6P	05/07/16 00:04	Load on Instrument
JC19759-2.1.1	GCMS6P	Arielle Cocozza	05/09/16 11:34	Unload from Instrument
JC19759-2.1.1	Arielle Cocozza	Extract Freezer	05/09/16 11:34	Return to Storage
JC19759-2.3	Secured Storage	Nicholas Goydish	05/06/16 12:28	Retrieve from Storage
JC19759-2.3	Nicholas Goydish		05/06/16 13:02	Depleted
JC19759-2.3.1	Nicholas Goydish	Organics Prep	05/06/16 12:28	Extract from JC19759-2.3
JC19759-2.4	Secured Storage	Nicholas Goydish	05/06/16 13:11	Retrieve from Storage
JC19759-2.4	Nicholas Goydish		05/06/16 15:21	Depleted
JC19759-2.4.1	Nicholas Goydish	Organics Prep	05/06/16 13:11	Extract from JC19759-2.4
JC19759-2.4.1	Organics Prep	Nicholas Goydish	05/06/16 14:34	Extract from JC19759-2.4
JC19759-2.4.1	Nicholas Goydish	Extract Storage	05/06/16 14:34	Return to Storage
JC19759-2.4.1	Extract Storage	Dhara Saparia	05/06/16 15:39	Retrieve from Storage
JC19759-2.4.1	Dhara Saparia	GC4G	05/06/16 15:39	Load on Instrument
JC19759-2.4.1	GC4G	Brittany Piercy	05/09/16 08:05	Unload from Instrument
JC19759-2.4.1	Brittany Piercy	Extract Freezer	05/09/16 08:06	Return to Storage
JC19759-3.1	Secured Storage	Sahara Feliciano	05/06/16 12:40	Retrieve from Storage
JC19759-3.1	Sahara Feliciano	Secured Staging Area	05/06/16 12:40	Return to Storage
JC19759-3.1	Secured Staging Area	Ryan Fantasia	05/06/16 15:16	Retrieve from Storage
JC19759-3.1	Ryan Fantasia		05/06/16 18:31	Depleted
JC19759-3.1.1	Ryan Fantasia	Organics Prep	05/06/16 15:17	Extract from JC19759-3.1
JC19759-3.1.1	Organics Prep	Ryan Fantasia	05/06/16 20:14	Extract from JC19759-3.1
JC19759-3.1.1	Ryan Fantasia	Extract Storage	05/06/16 20:14	Return to Storage
JC19759-3.1.1	Extract Storage	Sean Block	05/07/16 00:04	Retrieve from Storage
JC19759-3.1.1	Sean Block	GCMS6P	05/07/16 00:04	Load on Instrument
JC19759-3.1.1	GCMS6P	Arielle Cocozza	05/09/16 11:34	Unload from Instrument
JC19759-3.1.1	Arielle Cocozza	Extract Freezer	05/09/16 11:34	Return to Storage
JC19759-3.2	Secured Storage	Ryan Fantasia	05/06/16 15:15	Retrieve from Storage
JC19759-3.2	Ryan Fantasia		05/06/16 18:31	Depleted
JC19759-3.3	Secured Storage	Nicholas Goydish	05/06/16 12:28	Retrieve from Storage
JC19759-3.3	Nicholas Goydish		05/06/16 13:02	Depleted

SGS Accutest Internal Chain of Custody

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/06/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19759-3.3.1	Nicholas Goydish	Organics Prep	05/06/16 12:28	Extract from JC19759-3.3
JC19759-3.3.1	Organics Prep	Nicholas Goydish	05/06/16 14:34	Extract from JC19759-3.3
JC19759-3.3.1	Nicholas Goydish	Extract Storage	05/06/16 14:34	Return to Storage
JC19759-3.3.1	Extract Storage	Dhara Saparia	05/06/16 15:39	Retrieve from Storage
JC19759-3.3.1	Dhara Saparia	GC4G	05/06/16 15:39	Load on Instrument
JC19759-3.3.1	GC4G	Brittany Piercy	05/09/16 08:05	Unload from Instrument
JC19759-3.3.1	Brittany Piercy	Extract Freezer	05/09/16 08:06	Return to Storage
JC19759-4.1	Secured Storage	Sahara Feliciano	05/06/16 12:40	Retrieve from Storage
JC19759-4.1	Sahara Feliciano	Secured Staging Area	05/06/16 12:40	Return to Storage
JC19759-4.1	Secured Staging Area	Ryan Fantasia	05/06/16 15:16	Retrieve from Storage
JC19759-4.1	Ryan Fantasia		05/06/16 18:31	Depleted
JC19759-4.1.1	Ryan Fantasia	Organics Prep	05/06/16 15:17	Extract from JC19759-4.1
JC19759-4.1.1	Organics Prep	Ryan Fantasia	05/06/16 20:14	Extract from JC19759-4.1
JC19759-4.1.1	Ryan Fantasia	Extract Storage	05/06/16 20:14	Return to Storage
JC19759-4.1.1	Extract Storage	Sean Block	05/07/16 00:04	Retrieve from Storage
JC19759-4.1.1	Sean Block	GCMS6P	05/07/16 00:04	Load on Instrument
JC19759-4.1.1	GCMS6P	Arielle Cocozza	05/09/16 11:34	Unload from Instrument
JC19759-4.1.1	Arielle Cocozza	Extract Freezer	05/09/16 11:34	Return to Storage
JC19759-4.2	Secured Storage	Nicholas Goydish	05/06/16 12:28	Retrieve from Storage
JC19759-4.2	Nicholas Goydish		05/06/16 13:02	Depleted
JC19759-4.2.1	Nicholas Goydish	Organics Prep	05/06/16 12:28	Extract from JC19759-4.2
JC19759-4.2.1	Organics Prep	Nicholas Goydish	05/06/16 14:34	Extract from JC19759-4.2
JC19759-4.2.1	Nicholas Goydish	Extract Storage	05/06/16 14:34	Return to Storage
JC19759-4.2.1	Extract Storage	Dhara Saparia	05/06/16 15:39	Retrieve from Storage
JC19759-4.2.1	Dhara Saparia	GC4G	05/06/16 15:39	Load on Instrument
JC19759-4.2.1	GC4G	Brittany Piercy	05/09/16 08:05	Unload from Instrument
JC19759-4.2.1	Brittany Piercy	Extract Freezer	05/09/16 08:06	Return to Storage
JC19759-5.2	Secured Storage	Sahara Feliciano	05/06/16 12:40	Retrieve from Storage
JC19759-5.2	Sahara Feliciano	Secured Staging Area	05/06/16 12:40	Return to Storage
JC19759-5.2	Secured Staging Area	Ryan Fantasia	05/06/16 15:16	Retrieve from Storage
JC19759-5.2	Ryan Fantasia		05/06/16 18:31	Depleted
JC19759-5.2.1	Ryan Fantasia	Organics Prep	05/06/16 15:17	Extract from JC19759-5.2
JC19759-5.2.1	Organics Prep	Ryan Fantasia	05/06/16 20:14	Extract from JC19759-5.2
JC19759-5.2.1	Ryan Fantasia	Extract Storage	05/06/16 20:14	Return to Storage
JC19759-5.2.1	Extract Storage	Sean Block	05/07/16 00:04	Retrieve from Storage
JC19759-5.2.1	Sean Block	GCMS6P	05/07/16 00:04	Load on Instrument
JC19759-5.2.1	GCMS6P	Arielle Cocozza	05/09/16 11:34	Unload from Instrument
JC19759-5.2.1	Arielle Cocozza	Extract Freezer	05/09/16 11:34	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/06/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19759-5.3	Secured Storage	Nicholas Goydish	05/06/16 12:28	Retrieve from Storage
JC19759-5.3	Nicholas Goydish		05/06/16 13:02	Depleted
JC19759-5.3.1	Nicholas Goydish	Organics Prep	05/06/16 12:28	Extract from JC19759-5.3
JC19759-5.3.1	Organics Prep	Nicholas Goydish	05/06/16 14:34	Extract from JC19759-5.3
JC19759-5.3.1	Nicholas Goydish	Extract Storage	05/06/16 14:34	Return to Storage
JC19759-5.3.1	Extract Storage	Dhara Saparia	05/06/16 15:39	Retrieve from Storage
JC19759-5.3.1	Dhara Saparia	GC4G	05/06/16 15:39	Load on Instrument
JC19759-5.3.1	GC4G	Brittany Piercy	05/09/16 08:05	Unload from Instrument
JC19759-5.3.1	Brittany Piercy	Extract Freezer	05/09/16 08:06	Return to Storage
JC19759-6.2	Secured Storage	Sahara Feliciano	05/06/16 12:40	Retrieve from Storage
JC19759-6.2	Sahara Feliciano	Secured Staging Area	05/06/16 12:40	Return to Storage
JC19759-6.2	Secured Staging Area	Ryan Fantasia	05/06/16 15:16	Retrieve from Storage
JC19759-6.2	Ryan Fantasia		05/06/16 18:31	Depleted
JC19759-6.2.1	Ryan Fantasia	Organics Prep	05/06/16 15:17	Extract from JC19759-6.2
JC19759-6.2.1	Organics Prep	Ryan Fantasia	05/06/16 20:14	Extract from JC19759-6.2
JC19759-6.2.1	Ryan Fantasia	Extract Storage	05/06/16 20:14	Return to Storage
JC19759-6.2.1	Extract Storage	Sean Block	05/07/16 00:04	Retrieve from Storage
JC19759-6.2.1	Sean Block	GCMS6P	05/07/16 00:04	Load on Instrument
JC19759-6.2.1	GCMS6P	Arielle Cocozza	05/09/16 11:34	Unload from Instrument
JC19759-6.2.1	Arielle Cocozza	Extract Freezer	05/09/16 11:34	Return to Storage
JC19759-6.3	Secured Storage	Nicholas Goydish	05/06/16 12:28	Retrieve from Storage
JC19759-6.3	Nicholas Goydish		05/06/16 13:02	Depleted
JC19759-6.3.1	Nicholas Goydish	Organics Prep	05/06/16 12:28	Extract from JC19759-6.3
JC19759-6.3.1	Organics Prep	Nicholas Goydish	05/06/16 14:34	Extract from JC19759-6.3
JC19759-6.3.1	Nicholas Goydish	Extract Storage	05/06/16 14:34	Return to Storage
JC19759-6.3.1	Extract Storage	Dhara Saparia	05/06/16 15:39	Retrieve from Storage
JC19759-6.3.1	Dhara Saparia	GC4G	05/06/16 15:39	Load on Instrument
JC19759-6.3.1	GC4G	Brittany Piercy	05/09/16 08:05	Unload from Instrument
JC19759-6.3.1	Brittany Piercy	Extract Freezer	05/09/16 08:06	Return to Storage

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: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-MB1	6P25719.D	1	05/06/16	SB	05/06/16	OP93693	E6P1201

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

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: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-MB1	6P25719.D	1	05/06/16	SB	05/06/16	OP93693	E6P1201

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

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

Method Blank Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-MB1	6P25719.D	1	05/06/16	SB	05/06/16	OP93693	E6P1201

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	14-88%
4165-62-2	Phenol-d5	24%	10-110%
118-79-6	2,4,6-Tribromophenol	90%	39-149%
4165-60-0	Nitrobenzene-d5	71%	32-128%
321-60-8	2-Fluorobiphenyl	76%	35-119%
1718-51-0	Terphenyl-d14	94%	10-126%

Method Blank Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-MB1	P104679.D	1	05/09/16	LK	05/06/16	OP93693	EP4614

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

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: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-MB1	P104679.D	1	05/09/16	LK	05/06/16	OP93693	EP4614

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

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

Method Blank Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-MB1	P104679.D	1	05/09/16	LK	05/06/16	OP93693	EP4614

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	39%	14-88%
4165-62-2	Phenol-d5	25%	10-110%
118-79-6	2,4,6-Tribromophenol	78%	39-149%
4165-60-0	Nitrobenzene-d5	73%	32-128%
321-60-8	2-Fluorobiphenyl	70%	35-119%
1718-51-0	Terphenyl-d14	82%	10-126%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Internal standard added for SIM test	4.40	4.5	ug/l	J
	Internal standard added for SIM test	7.14	5.1	ug/l	J
	Internal standard added for SIM test	9.50	5.1	ug/l	J
	Internal standard added for SIM test	13.04	4.9	ug/l	J
	Internal standard added for SIM test	18.12	5.5	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693A-MB1	3M61149.D	1	05/07/16	JJ	05/06/16	OP93693A	E3M2875

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

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	46%	24-125%
321-60-8	2-Fluorobiphenyl	66%	19-127%
1718-51-0	Terphenyl-d14	85%	10-119%

Blank Spike Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-BS1	6P25724.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	30.7	61	48-106
59-50-7	4-Chloro-3-methyl phenol	50	42.1	84	49-113
120-83-2	2,4-Dichlorophenol	50	36.4	73	49-111
105-67-9	2,4-Dimethylphenol	50	39.9	80	42-117
51-28-5	2,4-Dinitrophenol	100	85.5	86	37-132
534-52-1	4,6-Dinitro-o-cresol	50	45.9	92	49-119
95-48-7	2-Methylphenol	50	30.8	62	42-103
	3&4-Methylphenol	50	29.1	58	39-110
88-75-5	2-Nitrophenol	50	38.2	76	49-114
100-02-7	4-Nitrophenol	50	25.6	51	16-95
87-86-5	Pentachlorophenol	50	33.2	66	30-136
108-95-2	Phenol	50	13.9	28	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	35.5	71	47-118
95-95-4	2,4,5-Trichlorophenol	50	38.1	76	55-116
88-06-2	2,4,6-Trichlorophenol	50	39.9	80	56-115
83-32-9	Acenaphthene	50	40.2	80	54-112
208-96-8	Acenaphthylene	50	40.5	81	49-99
98-86-2	Acetophenone	50	35.8	72	52-111
120-12-7	Anthracene	50	43.0	86	58-112
1912-24-9	Atrazine	50	49.4	99	62-134
100-52-7	Benzaldehyde	50	30.7	61	40-129
56-55-3	Benzo(a)anthracene	50	42.2	84	44-120
50-32-8	Benzo(a)pyrene	50	43.9	88	41-127
205-99-2	Benzo(b)fluoranthene	50	48.6	97	41-129
191-24-2	Benzo(g,h,i)perylene	50	35.9	72	34-128
207-08-9	Benzo(k)fluoranthene	50	46.4	93	42-122
101-55-3	4-Bromophenyl phenyl ether	50	42.9	86	54-121
85-68-7	Butyl benzyl phthalate	50	57.2	114	20-143
92-52-4	1,1'-Biphenyl	50	36.4	73	51-106
91-58-7	2-Chloronaphthalene	50	35.3	71	48-104
106-47-8	4-Chloroaniline	50	26.5	53	10-110
86-74-8	Carbazole	50	49.8	100	56-110
105-60-2	Caprolactam	50	10.2	20	10-110
218-01-9	Chrysene	50	38.7	77	45-125
111-91-1	bis(2-Chloroethoxy)methane	50	30.3	61	47-117
111-44-4	bis(2-Chloroethyl)ether	50	31.2	62	48-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-BS1	6P25724.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	29.8	60	44-112
7005-72-3	4-Chlorophenyl phenyl ether	50	37.8	76	50-117
121-14-2	2,4-Dinitrotoluene	50	55.8	112	57-122
606-20-2	2,6-Dinitrotoluene	50	50.5	101	58-122
91-94-1	3,3'-Dichlorobenzidine	100	85.9	86	10-110
123-91-1	1,4-Dioxane	50	12.0	24	10-110
53-70-3	Dibenzo(a,h)anthracene	50	40.0	80	36-130
132-64-9	Dibenzofuran	50	42.4	85	55-108
84-74-2	Di-n-butyl phthalate	50	55.4	111	45-123
117-84-0	Di-n-octyl phthalate	50	66.6	133	37-144
84-66-2	Diethyl phthalate	50	50.7	101	23-130
131-11-3	Dimethyl phthalate	50	44.6	89	10-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	56.2	112	36-138
206-44-0	Fluoranthene	50	44.1	88	58-116
86-73-7	Fluorene	50	44.0	88	57-113
118-74-1	Hexachlorobenzene	50	44.9	90	49-122
87-68-3	Hexachlorobutadiene	50	28.1	56	24-112
77-47-4	Hexachlorocyclopentadiene	100	45.2	45	14-119
67-72-1	Hexachloroethane	50	27.7	55	31-107
193-39-5	Indeno(1,2,3-cd)pyrene	50	40.4	81	34-128
78-59-1	Isophorone	50	34.2	68	52-119
90-12-0	1-Methylnaphthalene	50	38.6	77	46-103
91-57-6	2-Methylnaphthalene	50	37.9	76	45-107
88-74-4	2-Nitroaniline	50	46.0	92	51-127
99-09-2	3-Nitroaniline	50	38.7	77	10-110
100-01-6	4-Nitroaniline	50	51.8	104	50-112
98-95-3	Nitrobenzene	50	32.5	65	44-116
621-64-7	N-Nitroso-di-n-propylamine	50	33.8	68	49-117
86-30-6	N-Nitrosodiphenylamine	50	45.0	90	51-113
85-01-8	Phenanthrene	50	43.9	88	56-111
129-00-0	Pyrene	50	44.4	89	47-120
95-94-3	1,2,4,5-Tetrachlorobenzene	50	29.2	58	36-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-BS1	6P25724.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	39%	14-88%
4165-62-2	Phenol-d5	28%	10-110%
118-79-6	2,4,6-Tribromophenol	101%	39-149%
4165-60-0	Nitrobenzene-d5	69%	32-128%
321-60-8	2-Fluorobiphenyl	76%	35-119%
1718-51-0	Terphenyl-d14	93%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693A-BS12	3M61150.D	1	05/07/16	JJ	05/06/16	OP93693A	E3M2875

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.538	54	40-119
123-91-1	1,4-Dioxane	1	0.882	88	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	52%	24-125%
321-60-8	2-Fluorobiphenyl	73%	19-127%
1718-51-0	Terphenyl-d14	89%	10-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-MS	6P25725.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
OP93693-MSD	6P25726.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
JC19759-1	6P25727.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
JC19759-1	P104683.D	50	05/09/16	LK	05/06/16	OP93693	EP4614

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Compound	JC19759-1 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		105	70.4	67	105	69.6	66	1	49-110/20
59-50-7	4-Chloro-3-methyl phenol	ND		105	88.8	84	105	90.2	86	2	44-121/18
120-83-2	2,4-Dichlorophenol	ND		105	85.5	81	105	85.6	81	0	42-120/19
105-67-9	2,4-Dimethylphenol	ND		105	101	96	105	98.4	93	3	33-132/23
51-28-5	2,4-Dinitrophenol	ND		211	176	84	211	185	88	5	21-145/26
534-52-1	4,6-Dinitro-o-cresol	ND		105	91.5	87	105	93.8	89	2	25-134/27
95-48-7	2-Methylphenol	ND		105	79.1	75	105	79.2	75	0	47-112/18
	3&4-Methylphenol	ND		105	78.3	74	105	80.1	76	2	44-113/19
88-75-5	2-Nitrophenol	ND		105	86.6	82	105	86.6	82	0	45-118/20
100-02-7	4-Nitrophenol	ND		105	80.6	77	105	83.0	79	3	23-144/28
87-86-5	Pentachlorophenol	ND		105	70.9	67	105	74.6	71	5	25-151/25
108-95-2	Phenol	ND		105	47.8	45	105	50.5	48	5	22-100/22
58-90-2	2,3,4,6-Tetrachlorophenol	ND		105	70.0	67	105	72.6	69	4	44-122/21
95-95-4	2,4,5-Trichlorophenol	ND		105	77.4	74	105	80.6	77	4	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		105	86.7	82	105	86.5	82	0	53-120/21
83-32-9	Acenaphthene	ND		105	88.5	84	105	87.3	83	1	52-120/23
208-96-8	Acenaphthylene	ND		105	90.5	86	105	88.6	84	2	50-101/22
98-86-2	Acetophenone	ND		105	74.6	71	105	77.2	73	3	31-141/23
120-12-7	Anthracene	1.3		105	86.0	80	105	86.1	81	0	54-117/22
1912-24-9	Atrazine	ND		105	89.4	85	105	91.8	87	3	42-152/23
100-52-7	Benzaldehyde	ND		105	68.3	65	105	68.0	65	0	10-164/30
56-55-3	Benzo(a)anthracene	ND		105	82.7	79	105	84.5	80	2	40-123/24
50-32-8	Benzo(a)pyrene	ND		105	88.5	84	105	89.3	85	1	41-127/25
205-99-2	Benzo(b)fluoranthene	ND		105	97.4	93	105	97.4	93	0	39-127/27
191-24-2	Benzo(g,h,i)perylene	ND		105	75.0	71	105	77.0	73	3	34-128/28
207-08-9	Benzo(k)fluoranthene	ND		105	88.9	84	105	91.6	87	3	39-122/26
101-55-3	4-Bromophenyl phenyl ether	ND		105	84.8	81	105	86.3	82	2	51-124/23
85-68-7	Butyl benzyl phthalate	ND		105	109	104	105	114	108	4	21-146/28
92-52-4	1,1'-Biphenyl	ND		105	83.1	79	105	82.4	78	1	27-142/23
91-58-7	2-Chloronaphthalene	ND		105	80.8	77	105	81.6	78	1	51-109/23
106-47-8	4-Chloroaniline	ND		105	71.2	68	105	65.4	62	8	10-110/55
86-74-8	Carbazole	ND		105	92.8	88	105	96.3	91	4	52-116/22
105-60-2	Caprolactam	ND		105	39.8	38	105	39.8	38	0	10-106/34
218-01-9	Chrysene	ND		105	76.3	72	105	78.5	75	3	41-128/24
111-91-1	bis(2-Chloroethoxy)methane	ND		105	68.6	65	105	67.3	64	2	46-120/24
111-44-4	bis(2-Chloroethyl)ether	ND		105	66.3	63	105	65.9	63	1	42-123/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-MS	6P25725.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
OP93693-MSD	6P25726.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
JC19759-1	6P25727.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
JC19759-1	P104683.D	50	05/09/16	LK	05/06/16	OP93693	EP4614

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Compound	JC19759-1 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		105	64.0	61	105	63.7	61	0	41-117/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		105	78.3	74	105	77.8	74	1	48-121/21
121-14-2	2,4-Dinitrotoluene	ND		105	106	101	105	108	103	2	54-123/27
606-20-2	2,6-Dinitrotoluene	ND		105	101	96	105	105	100	4	55-125/26
91-94-1	3,3'-Dichlorobenzidine	ND		211	153	73	211	161	76	5	10-107/47
123-91-1	1,4-Dioxane	2570 [b]		105	4100	903* [a]	105	3920	732* [a]	4	10-119/31
53-70-3	Dibenzo(a,h)anthracene	ND		105	81.0	77	105	84.2	80	4	35-130/27
132-64-9	Dibenzofuran	ND		105	89.9	85	105	91.3	87	2	53-112/22
84-74-2	Di-n-butyl phthalate	ND		105	104	99	105	108	103	4	38-129/23
117-84-0	Di-n-octyl phthalate	ND		105	125	119	105	126	120	1	35-145/26
84-66-2	Diethyl phthalate	ND		105	97.5	93	105	99.2	94	2	16-136/30
131-11-3	Dimethyl phthalate	ND		105	88.6	84	105	90.0	86	2	10-143/39
117-81-7	bis(2-Ethylhexyl)phthalate	ND		105	106	101	105	110	105	4	34-141/28
206-44-0	Fluoranthene	ND		105	83.9	80	105	85.4	81	2	47-123/24
86-73-7	Fluorene	ND		105	89.5	85	105	90.6	86	1	56-117/22
118-74-1	Hexachlorobenzene	ND		105	87.8	83	105	91.6	87	4	46-125/24
87-68-3	Hexachlorobutadiene	ND		105	66.6	63	105	65.2	62	2	26-121/24
77-47-4	Hexachlorocyclopentadiene	ND		211	110	52	211	112	53	2	10-133/31
67-72-1	Hexachloroethane	ND		105	61.2	58	105	60.7	58	1	35-111/26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		105	85.0	81	105	104	99	20	32-130/30
78-59-1	Isophorone	ND		105	78.3	74	105	76.1	72	3	47-126/23
90-12-0	1-Methylnaphthalene	ND		105	87.3	83	105	86.8	82	1	34-124/25
91-57-6	2-Methylnaphthalene	ND		105	87.0	83	105	85.7	81	2	34-123/24
88-74-4	2-Nitroaniline	ND		105	92.8	88	105	96.4	92	4	46-137/23
99-09-2	3-Nitroaniline	ND		105	80.8	77	105	77.8	74	4	10-110/50
100-01-6	4-Nitroaniline	ND		105	94.7	90	105	97.0	92	2	38-118/25
98-95-3	Nitrobenzene	ND		105	72.4	69	105	72.4	69	0	35-130/25
621-64-7	N-Nitroso-di-n-propylamine	ND		105	72.8	69	105	73.1	69	0	45-123/22
86-30-6	N-Nitrosodiphenylamine	ND		105	86.7	82	105	89.0	85	3	46-123/24
85-01-8	Phenanthrene	ND		105	85.0	81	105	86.9	83	2	48-121/23
129-00-0	Pyrene	ND		105	87.1	83	105	89.9	85	3	43-124/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		105	69.7	66	105	68.4	65	2	25-142/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693-MS	6P25725.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
OP93693-MSD	6P25726.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
JC19759-1	6P25727.D	1	05/07/16	SB	05/06/16	OP93693	E6P1201
JC19759-1	P104683.D	50	05/09/16	LK	05/06/16	OP93693	EP4614

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Surrogate Recoveries	MS	MSD	JC19759-1	JC19759-1	Limits
367-12-4	2-Fluorophenol	54%	54%	35%	0%* c	14-88%
4165-62-2	Phenol-d5	48%	49%	24%	0%* c	10-110%
118-79-6	2,4,6-Tribromophenol	96%	99%	83%	0%* c	39-149%
4165-60-0	Nitrobenzene-d5	74%	73%	67%	0%* c	32-128%
321-60-8	2-Fluorobiphenyl	84%	83%	71%	0%* c	35-119%
1718-51-0	Terphenyl-d14	85%	88%	75%	0%* c	10-126%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Outside control limits due to dilution.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93693A-MS	3M61151.D	1	05/07/16	JJ	05/06/16	OP93693A	E3M2875
OP93693A-MSD	3M61152.D	1	05/07/16	JJ	05/06/16	OP93693A	E3M2875
JC19759-3	3M61161.D	1	05/09/16	LK	05/06/16	OP93693A	E3M2876

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

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Compound	JC19759-3 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	2.30		2.5	1.35	0* [a]	2.5	1.39	0* [a]	3	23-140/36
123-91-1	1,4-Dioxane	ND		2.5	1.45	13* [a]	2.5	1.41	12* [a]	3	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC19759-3	Limits
4165-60-0	Nitrobenzene-d5	53%	54%	69%	24-125%
321-60-8	2-Fluorobiphenyl	70%	73%	66%	19-127%
1718-51-0	Terphenyl-d14	83%	88%	78%	10-119%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC19759
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: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2875-DFTPP
Lab File ID: 3M61147.D
Instrument ID: GCMS3M
Injection Date: 05/06/16
Injection Time: 22:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	169145	37.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	218137	48.2		Pass
70	Less than 2.0% of mass 69	614	0.14	(0.28) [a]	Pass
127	40.0 - 60.0% of mass 198	226152	50.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	452203	100.0		Pass
199	5.0 - 9.0% of mass 198	30744	6.80		Pass
275	10.0 - 30.0% of mass 198	105635	23.4		Pass
365	1.0 - 100.0% of mass 198	11692	2.59		Pass
441	Present, but less than mass 443	54872	12.1	(88.6) [b]	Pass
442	40.0 - 100.0% of mass 198	319419	70.6		Pass
443	17.0 - 23.0% of mass 442	61953	13.7	(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
E3M2875-CC2855	3M61148.D	05/06/16	22:46	00:18	Continuing cal 0.5
OP93693A-MB1	3M61149.D	05/07/16	00:38	02:10	Method Blank
OP93693A-BS12	3M61150.D	05/07/16	01:10	02:42	Blank Spike
OP93693A-MS	3M61151.D	05/07/16	01:42	03:14	Matrix Spike
OP93693A-MSD	3M61152.D	05/07/16	02:15	03:47	Matrix Spike Duplicate
JC19759-1	3M61153.D	05/07/16	02:47	04:19	S-43S
JC19759-2	3M61154.D	05/07/16	03:19	04:51	RA-11 GWD
JC19759-4	3M61156.D	05/07/16	04:23	05:55	RA-10GWS
JC19759-5	3M61157.D	05/07/16	04:55	06:27	S-43D
JC19759-6	3M61158.D	05/07/16	05:27	06:59	RA-10 GWD

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2876-DFTPP
Lab File ID: 3M61159.D
Instrument ID: GCMS3M
Injection Date: 05/09/16
Injection Time: 08:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	171448	36.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	226149	48.2		Pass
70	Less than 2.0% of mass 69	1267	0.27	(0.56) [a]	Pass
127	40.0 - 60.0% of mass 198	230808	49.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	468821	100.0		Pass
199	5.0 - 9.0% of mass 198	32547	6.94		Pass
275	10.0 - 30.0% of mass 198	113813	24.3		Pass
365	1.0 - 100.0% of mass 198	12602	2.69		Pass
441	Present, but less than mass 443	60931	13.0	(83.6) [b]	Pass
442	40.0 - 100.0% of mass 198	373525	79.7		Pass
443	17.0 - 23.0% of mass 442	72872	15.5	(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
E3M2876-CC2855	3M61160.D	05/09/16	09:06	00:15	Continuing cal 1
JC19759-3	3M61161.D	05/09/16	09:39	00:48	EB 050516
OP93629A-MB1	3M61162.D	05/09/16	10:12	01:21	Method Blank
OP93629A-BS12	3M61163.D	05/09/16	10:44	01:53	Blank Spike
OP93629A-MS	3M61164.D	05/09/16	11:16	02:25	Matrix Spike
OP93629A-MSD	3M61165.D	05/09/16	11:49	02:58	Matrix Spike Duplicate
ZZZZZZ	3M61166.D	05/09/16	12:21	03:30	(unrelated sample)
JC19510-8	3M61167.D	05/09/16	12:54	04:03	(used for QC only; not part of job JC19759)
ZZZZZZ	3M61168.D	05/09/16	13:26	04:35	(unrelated sample)
ZZZZZZ	3M61169.D	05/09/16	13:59	05:08	(unrelated sample)
ZZZZZZ	3M61170.D	05/09/16	14:31	05:40	(unrelated sample)
OP93473A-MSD	3M61171.D	05/09/16	15:04	06:13	Matrix Spike Duplicate
OP93648A-MB1	3M61182.D	05/09/16	15:36	06:45	Method Blank
OP93648A-BS12	3M61183.D	05/09/16	16:09	07:18	Blank Spike
JC19552-1	3M61184.D	05/09/16	16:41	07:50	(used for QC only; not part of job JC19759)
JC19552-1	3M61187.D	05/09/16	17:14	08:23	(used for QC only; not part of job JC19759)
OP93648A-MS	3M61185.D	05/09/16	17:47	08:56	Matrix Spike
OP93648A-MSD	3M61186.D	05/09/16	18:19	09:28	Matrix Spike Duplicate
ZZZZZZ	3M61177.D	05/09/16	18:52	10:01	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E3M2876-DFTPP	**Injection Date:**	05/09/16
Lab File ID:	3M61159.D	**Injection Time:**	08:51
Instrument ID:	GCMS3M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3M61178.D	05/09/16	19:24	10:33	(unrelated sample)
JC19606-3	3M61179.D	05/09/16	19:57	11:06	(used for QC only; not part of job JC19759)
OP93677A-MS	3M61180.D	05/09/16	20:29	11:38	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1155-DFTPP
Lab File ID: 6P24811.D
Instrument ID: GCMS6P
Injection Date: 04/05/16
Injection Time: 16:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	48460	47.2		Pass
68	Less than 2.0% of mass 69	223	0.22	(0.45) [a]	Pass
69	Mass 69 relative abundance	50030	48.8		Pass
70	Less than 2.0% of mass 69	440	0.43	(0.88) [a]	Pass
127	40.0 - 60.0% of mass 198	51010	49.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	102584	100.0		Pass
199	5.0 - 9.0% of mass 198	7012	6.84		Pass
275	10.0 - 30.0% of mass 198	25214	24.6		Pass
365	1.0 - 100.0% of mass 198	3390	3.30		Pass
441	Present, but less than mass 443	13622	13.3	(80.3) [b]	Pass
442	40.0 - 100.0% of mass 198	87869	85.7		Pass
443	17.0 - 23.0% of mass 442	16959	16.5	(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
E6P1155-IC1155	6P24812.D	04/05/16	16:46	00:12	Initial cal 2
E6P1155-IC1155	6P24813.D	04/05/16	17:14	00:40	Initial cal 1
E6P1155-IC1155	6P24814.D	04/05/16	17:41	01:07	Initial cal 100
E6P1155-IC1155	6P24815.D	04/05/16	18:09	01:35	Initial cal 80
E6P1155-IC1155	6P24816.D	04/05/16	18:36	02:02	Initial cal 25
E6P1155-IC1155	6P24817.D	04/05/16	19:04	02:30	Initial cal 10
E6P1155-IC1155	6P24818.D	04/05/16	19:31	02:57	Initial cal 5
E6P1155-ICC1155	6P24819A.D	04/05/16	20:15	03:41	Initial cal 50

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1156-DFTPP
Lab File ID: 6P24822.D
Instrument ID: GCMS6P
Injection Date: 04/05/16
Injection Time: 21:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	46348	45.6		Pass
68	Less than 2.0% of mass 69	918	0.90	(1.89) [a]	Pass
69	Mass 69 relative abundance	48667	47.9		Pass
70	Less than 2.0% of mass 69	179	0.18	(0.37) [a]	Pass
127	40.0 - 60.0% of mass 198	50835	50.0		Pass
197	Less than 1.0% of mass 198	476	0.47		Pass
198	Base peak, 100% relative abundance	101653	100.0		Pass
199	5.0 - 9.0% of mass 198	6994	6.88		Pass
275	10.0 - 30.0% of mass 198	25561	25.1		Pass
365	1.0 - 100.0% of mass 198	3422	3.37		Pass
441	Present, but less than mass 443	12914	12.7	(72.8) [b]	Pass
442	40.0 - 100.0% of mass 198	88746	87.3		Pass
443	17.0 - 23.0% of mass 442	17735	17.4	(20.0) [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
E6P1156-IC1156	6P24823.D	04/05/16	21:30	00:11	Initial cal 100
E6P1156-IC1156	6P24824.D	04/05/16	22:01	00:42	Initial cal 80
E6P1156-ICC1156	6P24825.D	04/05/16	22:28	01:09	Initial cal 50
E6P1156-IC1156	6P24826.D	04/05/16	22:55	01:36	Initial cal 25
E6P1156-IC1156	6P24827.D	04/05/16	23:23	02:04	Initial cal 10
E6P1156-IC1156	6P24828.D	04/05/16	23:50	02:31	Initial cal 5
E6P1156-IC1156	6P24829.D	04/06/16	00:17	02:58	Initial cal 2
E6P1156-IC1156	6P24830.D	04/06/16	00:44	03:25	Initial cal 1
E6P1156-ICV1155	6P24832.D	04/06/16	01:39	04:20	Initial cal verification 50
E6P1156-ICV1155	6P24833.D	04/06/16	02:06	04:47	Initial cal verification 50
E6P1156-ICV1156	6P24834A.D	04/06/16	02:34	05:15	Initial cal verification 50
E6P1156-ICV1155	6P24834.D	04/06/16	02:34	05:15	Initial cal verification 50
E6P1156-ICV1155	6P24835.D	04/06/16	03:01	05:42	Initial cal verification 50
E6P1156-ICV1156	6P24835A.D	04/06/16	03:01	05:42	Initial cal verification 50
E6P1156-ICV1156	6P24836.D	04/06/16	03:29	06:10	Initial cal verification 50
E6P1156-ICV1155	6P24837.D	04/06/16	03:56	06:37	Initial cal verification 50
E6P1156-ICV1156	6P24837A.D	04/06/16	03:56	06:37	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1157-DFTPP
Lab File ID: 6P24838.D
Instrument ID: GCMS6P
Injection Date: 04/06/16
Injection Time: 09:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	46104	44.3		Pass
68	Less than 2.0% of mass 69	489	0.47	(0.99) [a]	Pass
69	Mass 69 relative abundance	49245	47.4		Pass
70	Less than 2.0% of mass 69	219	0.21	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	51345	49.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	103997	100.0		Pass
199	5.0 - 9.0% of mass 198	6861	6.60		Pass
275	10.0 - 30.0% of mass 198	26220	25.2		Pass
365	1.0 - 100.0% of mass 198	3077	2.96		Pass
441	Present, but less than mass 443	13068	12.6	(76.2) [b]	Pass
442	40.0 - 100.0% of mass 198	92957	89.4		Pass
443	17.0 - 23.0% of mass 442	17154	16.5	(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
E6P1157-ICV1155	6P24839.D	04/06/16	09:53	00:12	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1201-DFTPP
Lab File ID: 6P25714.D
Instrument ID: GCMS6P
Injection Date: 05/06/16
Injection Time: 21:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	132802	42.8		Pass
68	Less than 2.0% of mass 69	1679	0.54	(1.26) [a]	Pass
69	Mass 69 relative abundance	133710	43.1		Pass
70	Less than 2.0% of mass 69	711	0.23	(0.53) [a]	Pass
127	40.0 - 60.0% of mass 198	160864	51.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	310144	100.0		Pass
199	5.0 - 9.0% of mass 198	21121	6.81		Pass
275	10.0 - 30.0% of mass 198	85746	27.6		Pass
365	1.0 - 100.0% of mass 198	12784	4.12		Pass
441	Present, but less than mass 443	35150	11.3	(74.4) [b]	Pass
442	40.0 - 100.0% of mass 198	242424	78.2		Pass
443	17.0 - 23.0% of mass 442	47224	15.2	(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
E6P1201-CC1155	6P25715.D	05/06/16	22:03	00:12	Continuing cal 25
E6P1201-CC1156	6P25716.D	05/06/16	22:30	00:39	Continuing cal 25
OP93693-MB1	6P25719.D	05/06/16	23:56	02:05	Method Blank
OP93695-MB1	6P25720.D	05/07/16	00:22	02:31	Method Blank
OP93655-MB2	6P25720.D	05/07/16	00:22	02:31	Method Blank
OP93655-LB28	6P25721.D	05/07/16	00:49	02:58	Leachate Blank
OP93695-LB32	6P25722.D	05/07/16	01:15	03:24	Leachate Blank
OP93655-BS2	6P25723.D	05/07/16	01:42	03:51	Blank Spike
OP93695-BS1	6P25723.D	05/07/16	01:42	03:51	Blank Spike
OP93693-BS1	6P25724.D	05/07/16	02:08	04:17	Blank Spike
OP93693-MS	6P25725.D	05/07/16	02:34	04:43	Matrix Spike
OP93693-MSD	6P25726.D	05/07/16	03:01	05:10	Matrix Spike Duplicate
JC19759-1	6P25727.D	05/07/16	03:27	05:36	S-43S
JC19759-2	6P25728.D	05/07/16	03:54	06:03	RA-11 GWD
JC19759-4	6P25730.D	05/07/16	04:46	06:55	RA-10GWS
JC19759-5	6P25731.D	05/07/16	05:13	07:22	S-43D
JC19759-6	6P25732.D	05/07/16	05:39	07:48	RA-10 GWD
ZZZZZZ	6P25733.D	05/07/16	06:05	08:14	(unrelated sample)
ZZZZZZ	6P25735.D	05/07/16	06:58	09:07	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1201-DFTPP
Lab File ID: 6P25714.D
Instrument ID: GCMS6P
Injection Date: 05/06/16
Injection Time: 21:51

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP93695-MS	6P25736.D	05/07/16	07:24	09:33	Matrix Spike
OP93695-LS16	6P25736.D	05/07/16	07:24	09:33	Leachate Spike
OP93695-MSD	6P25737.D	05/07/16	07:50	09:59	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4601-DFTPP
Lab File ID: P104411.D
Instrument ID: GCMSP
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	14321	43.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	14814	44.5		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	17119	51.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	33320	100.0		Pass
199	5.0 - 9.0% of mass 198	2277	6.83		Pass
275	10.0 - 30.0% of mass 198	6287	18.9		Pass
365	1.0 - 100.0% of mass 198	692	2.08		Pass
441	Present, but less than mass 443	2752	8.26	(79.1) [b]	Pass
442	40.0 - 100.0% of mass 198	17042	51.1		Pass
443	17.0 - 23.0% of mass 442	3478	10.4	(20.4) [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
EP4601-IC4601	P104412.D	04/27/16	15:34	00:13	Initial cal 100
EP4601-IC4601	P104413.D	04/27/16	16:03	00:42	Initial cal 80
EP4601-ICC4601	P104414.D	04/27/16	16:32	01:11	Initial cal 50
EP4601-IC4601	P104415.D	04/27/16	17:01	01:40	Initial cal 25
EP4601-IC4601	P104416.D	04/27/16	17:30	02:09	Initial cal 10
EP4601-IC4601	P104417.D	04/27/16	18:00	02:39	Initial cal 5
EP4601-IC4601	P104418.D	04/27/16	18:29	03:08	Initial cal 2
EP4601-IC4601	P104419.D	04/27/16	18:58	03:37	Initial cal 1
EP4601-ICV4601	P104422.D	04/27/16	20:25	05:04	Initial cal verification 50
EP4601-ICV4601	P104423.D	04/27/16	20:55	05:34	Initial cal verification 50
EP4601-ICV4601	P104425.D	04/27/16	21:53	06:32	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4602-DFTPP
Lab File ID: P104431.D
Instrument ID: GCMSP
Injection Date: 04/28/16
Injection Time: 11:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	11208	43.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	11743	45.7		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	13488	52.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	25706	100.0		Pass
199	5.0 - 9.0% of mass 198	1805	7.02		Pass
275	10.0 - 30.0% of mass 198	4785	18.6		Pass
365	1.0 - 100.0% of mass 198	545	2.12		Pass
441	Present, but less than mass 443	2021	7.86	(76.4) [b]	Pass
442	40.0 - 100.0% of mass 198	13303	51.8		Pass
443	17.0 - 23.0% of mass 442	2645	10.3	(19.9) [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
EP4602-ICV4601	P104434.D	04/28/16	13:21	01:30	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4604-DFTPP
Lab File ID: P104440.D
Instrument ID: GCMSP
Injection Date: 04/28/16
Injection Time: 17:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	10495	43.8		Pass
68	Less than 2.0% of mass 69	125	0.52	(1.19) [a]	Pass
69	Mass 69 relative abundance	10499	43.8		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	12710	53.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	23974	100.0		Pass
199	5.0 - 9.0% of mass 198	1674	6.98		Pass
275	10.0 - 30.0% of mass 198	5160	21.5		Pass
365	1.0 - 100.0% of mass 198	653	2.72		Pass
441	Present, but less than mass 443	2294	9.57	(78.6) [b]	Pass
442	40.0 - 100.0% of mass 198	14770	61.6		Pass
443	17.0 - 23.0% of mass 442	2918	12.2	(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
EP4604-IC4604	P104441.D	04/28/16	17:22	00:15	Initial cal 100
EP4604-IC4604	P104442.D	04/28/16	17:51	00:44	Initial cal 80
EP4604-ICC4604	P104443.D	04/28/16	18:20	01:13	Initial cal 50
EP4604-IC4604	P104444.D	04/28/16	18:49	01:42	Initial cal 25
EP4604-IC4604	P104445.D	04/28/16	19:18	02:11	Initial cal 10
EP4604-IC4604	P104446.D	04/28/16	19:47	02:40	Initial cal 5
EP4604-IC4604	P104447.D	04/28/16	20:16	03:09	Initial cal 2
EP4604-IC4604	P104448.D	04/28/16	20:45	03:38	Initial cal 1
EP4604-ICV4604	P104449.D	04/28/16	21:14	04:07	Initial cal verification 50
EP4604-ICV4604	P104450.D	04/28/16	21:43	04:36	Initial cal verification 50
EP4604-ICV4604	P104451.D	04/28/16	22:12	05:05	Initial cal verification 50
EP4604-ICV4604	P104452.D	04/28/16	22:40	05:33	Initial cal verification 50
EP4604-ICV4604	P104453.D	04/28/16	23:09	06:02	Initial cal verification 50
EP4604-ICV4604	P104454.D	04/28/16	23:38	06:31	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4614-DFTPP
Lab File ID: P104675.D
Instrument ID: GCMSP
Injection Date: 05/09/16
Injection Time: 11:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	9882	43.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	9471	41.6		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	11264	49.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	22742	100.0		Pass
199	5.0 - 9.0% of mass 198	1503	6.61		Pass
275	10.0 - 30.0% of mass 198	4787	21.0		Pass
365	1.0 - 100.0% of mass 198	492	2.16		Pass
441	Present, but less than mass 443	2085	9.17	(78.1) [b]	Pass
442	40.0 - 100.0% of mass 198	12571	55.3		Pass
443	17.0 - 23.0% of mass 442	2669	11.7	(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
EP4614-CC4604	P104677.D	05/09/16	11:32	00:16	Continuing cal 25
EP4614-CC4601	P104678.D	05/09/16	12:01	00:45	Continuing cal 25
OP93693-MB1	P104679.D	05/09/16	12:30	01:14	Method Blank
JC19759-3	P104680.D	05/09/16	13:00	01:44	EB 050516
JC19759-2	P104681.D	05/09/16	13:29	02:13	RA-11 GWD
JC19759-5	P104682.D	05/09/16	13:58	02:42	S-43D
JC19759-1	P104683.D	05/09/16	14:28	03:12	S-43S
JC19759-4	P104684.D	05/09/16	14:57	03:41	RA-10GWS
JC19759-6	P104685.D	05/09/16	15:26	04:10	RA-10 GWD
ZZZZZZ	P104686.D	05/09/16	15:55	04:39	(unrelated sample)
ZZZZZZ	P104687.D	05/09/16	16:25	05:09	(unrelated sample)
JC19636-1	P104694.D	05/09/16	16:54	05:38	(used for QC only; not part of job JC19759)
ZZZZZZ	P104701.D	05/09/16	17:23	06:07	(unrelated sample)
ZZZZZZ	P104688.D	05/09/16	17:52	06:36	(unrelated sample)
OP93718-MB1	P104689.D	05/09/16	18:21	07:05	Method Blank
OP93718-BS1	P104690.D	05/09/16	18:50	07:34	Blank Spike
OP93718-BSD	P104691.D	05/09/16	19:19	08:03	Blank Spike Duplicate
ZZZZZZ	P104692.D	05/09/16	19:48	08:32	(unrelated sample)
ZZZZZZ	P104693.D	05/09/16	20:18	09:02	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4614-DFTPP
Lab File ID: P104675.D
Instrument ID: GCMSP
Injection Date: 05/09/16
Injection Time: 11:16

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	P104695.D	05/09/16	20:47	09:31	(unrelated sample)
ZZZZZZ	P104696.D	05/09/16	21:16	10:00	(unrelated sample)
ZZZZZZ	P104697.D	05/09/16	21:45	10:29	(unrelated sample)
ZZZZZZ	P104698.D	05/09/16	22:14	10:58	(unrelated sample)
ZZZZZZ	P104699.D	05/09/16	22:43	11:27	(unrelated sample)
ZZZZZZ	P104700.D	05/09/16	23:13	11:57	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2875-CC2855	**Injection Date:**	05/06/16
Lab File ID:	3M61148.D	**Injection Time:**	22:46
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	396721	10.41	530700	13.41	939097	17.62	759333	22.23
Upper Limit [a]	793442	10.91	1061400	13.91	1878194	18.12	1518666	22.73
Lower Limit [b]	198361	9.91	265350	12.91	469549	17.12	379667	21.73

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP93693A-MB1	347873	10.41	426025	13.41	688631	17.62	566239	22.23
OP93693A-BS12	382357	10.41	449185	13.41	730954	17.62	580793	22.23
OP93693A-MS	383933	10.41	471665	13.41	737060	17.62	584840	22.23
OP93693A-MSD	385180	10.41	455532	13.41	720457	17.62	570470	22.23
JC19759-1	462139	10.41	584026	13.41	933201	17.62	737561	22.23
JC19759-2 [c]	354984	10.41	459210	13.41	730941	17.62	576263	22.23
JC19759-4 [c]	348029	10.41	424512	13.41	698491	17.62	551733	22.23
JC19759-5	364226	10.41	438880	13.41	724441	17.62	573653	22.23
JC19759-6 [c]	357493	10.41	465274	13.41	723134	17.62	573303	22.23

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.
(c) Elevated detection limit due to limited volume of sample extracted.

Semivolatile Internal Standard Area Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2876-CC2855	**Injection Date:**	05/09/16
Lab File ID:	3M61160.D	**Injection Time:**	09:06
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	268276	10.39	447446	13.39	743778	17.61	606791	22.21
Upper Limit [a]	536552	10.89	894892	13.89	1487556	18.11	1213582	22.71
Lower Limit [b]	134138	9.89	223723	12.89	371889	17.11	303396	21.71

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
JC19759-3	417999	10.39	658898	13.39	990182	17.61	784007	22.21
OP93629A-MB1	276350	10.39	466690	13.39	721271	17.61	577890	22.21
OP93629A-BS12	283771	10.39	458514	13.39	702924	17.61	570488	22.21
OP93629A-MS	321463	10.39	530192	13.39	807989	17.62	655541	22.23
OP93629A-MSD	345469	10.41	535431	13.39	857481	17.62	666956	22.23
ZZZZZZ	309048	10.41	496756	13.39	784350	17.61	637159	22.21
JC19510-8	346505	10.41	556771	13.39	861608	17.62	720430	22.24
ZZZZZZ	361153	10.41	511524	13.39	845025	17.62	694268	22.23
ZZZZZZ	342942	10.41	497180	13.39	778542	17.62	617626	22.23
ZZZZZZ	333865	10.41	475858	13.39	817691	17.62	683563	22.23
OP93473A-MSD	314839	10.41	442093	13.39	712219	17.61	581310	22.23
OP93648A-MB1	256655	10.41	377574	13.39	624402	17.61	544021	22.23
OP93648A-BS12	240537	10.41	336413	13.39	563486	17.61	474015	22.23
JC19552-1	362688	10.41	693933	13.45	771067	17.75	806535	22.24
JC19552-1	367986	10.41	530979	13.41	916095	17.64	768786	22.23
OP93648A-MS	474432	10.41	709151	13.45	943523	17.75	977857	22.24
OP93648A-MSD	516663	10.41	831808	13.45	1087601	17.73	1086073	22.23
ZZZZZZ	481267	10.41	669532	13.39	1100605	17.62	906627	22.23
ZZZZZZ	512361	10.41	708649	13.39	1135266	17.62	945227	22.23
JC19606-3	497271	10.41	723055	13.39	1177825	17.62	987147	22.23
OP93677A-MS	481454	10.41	722739	13.39	1153583	17.62	941472	22.23

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: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E6P1201-CC1155	**Injection Date:**	05/06/16
Lab File ID:	6P25715.D	**Injection Time:**	22:03
Instrument ID:	GCMS6P	**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	323726	4.53	1324938	5.59	800922	7.63	1344374	9.79	1264143	13.97	1032116	16.09
Upper Limit [a]	647452	5.03	2649876	6.09	1601844	8.13	2688748	10.29	2528286	14.47	2064232	16.59
Lower Limit [b]	161863	4.03	662469	5.09	400461	7.13	672187	9.29	632072	13.47	516058	15.59

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
OP93693-MB1	214768	4.53	896903	5.60	530524	7.63	910318	9.78	899685	13.96	846151	16.08
OP93695-MB1	256675	4.53	1083796	5.60	652462	7.63	1096861	9.78	1028139	13.96	948016	16.08
OP93655-MB2	256675	4.53	1083796	5.60	652462	7.63	1096861	9.78	1028139	13.96	948016	16.08
OP93655-LB28	220692	4.53	922068	5.60	555983	7.63	918603	9.78	868922	13.96	793461	16.08
OP93695-LB32	209411	4.53	890598	5.59	522336	7.62	855433	9.78	793844	13.96	723105	16.08
OP93695-BS1	258748	4.53	1064451	5.60	630362	7.62	1025135	9.78	1019911	13.96	772413	16.08
OP93655-BS2	258748	4.53	1064451	5.60	630362	7.62	1025135	9.78	1019911	13.96	772413	16.08
OP93693-BS1	257684	4.53	1065704	5.60	640439	7.62	1058417	9.78	1085880	13.96	823357	16.08
OP93693-MS	268483	4.53	1067967	5.60	628403	7.63	1018395	9.78	1009419	13.96	787155	16.08
OP93693-MSD	272717	4.54	1109924	5.60	649791	7.63	1061459	9.79	1042757	13.97	823104	16.09
JC19759-1	262272	4.53	1083738	5.60	655688	7.63	1076390	9.79	1012828	13.96	898745	16.09
JC19759-2 [c]	262682	4.53	1083894	5.60	652654	7.62	1082993	9.78	996650	13.96	875413	16.08
JC19759-4 [c]	252364	4.53	1059276	5.59	643037	7.62	1056594	9.78	985855	13.96	905432	16.08
JC19759-5	257317	4.53	1075789	5.59	639130	7.62	1054480	9.78	966782	13.96	861674	16.08
JC19759-6 [c]	259609	4.53	1069768	5.59	627422	7.62	1028210	9.78	928611	13.96	802381	16.08
ZZZZZZ	245063	4.53	1007041	5.59	584270	7.62	979428	9.78	904073	13.96	839575	16.08
ZZZZZZ	260338	4.53	1087795	5.60	593819	7.63	945155	9.78	966285	13.96	902243	16.08
OP93695-MS	280799	4.53	1124226	5.60	665655	7.62	1102062	9.78	1074663	13.96	864735	16.08
OP93695-LS16	280799	4.53	1124226	5.60	665655	7.62	1102062	9.78	1074663	13.96	864735	16.08
OP93695-MSD	262118	4.53	1043054	5.60	618865	7.63	1037580	9.78	1036080	13.96	803765	16.08

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.
(c) Elevated detection limit due to limited volume of sample extracted.

Semivolatile Internal Standard Area Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EP4614-CC4604	**Injection Date:**	05/09/16
Lab File ID:	P104677.D	**Injection Time:**	11:32
Instrument ID:	GCMSP	**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	32356	4.21	117530	5.96	65443	8.67	117545	11.04	112772	15.73	90718	18.28
Upper Limit [a]	64712	4.71	235060	6.46	130886	9.17	235090	11.54	225544	16.23	181436	18.78
Lower Limit [b]	16178	3.71	58765	5.46	32722	8.17	58773	10.54	56386	15.23	45359	17.78

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
OP93693-MB1	22928	4.21	82540	5.95	48682	8.67	91041	11.03	91046	15.72	77143	18.27
JC19759-3	33953	4.21	121741	5.96	71588	8.67	123160	11.03	119440	15.72	99259	18.27
JC19759-2	28022	4.21	102225	5.95	59573	8.67	111227	11.03	107893	15.72	91646	18.27
JC19759-5	27804	4.21	102732	5.95	59956	8.67	109240	11.03	104578	15.72	88230	18.27
JC19759-1	27576	4.21	102648	5.95	60135	8.67	107363	11.03	110754	15.72	91339	18.27
JC19759-4	29349	4.21	109394	5.95	65626	8.67	119981	11.03	119332	15.72	99246	18.27
JC19759-6	26865	4.21	101618	5.95	59710	8.67	108324	11.03	114145	15.72	94106	18.27
ZZZZZZ	25555	4.21	97609	5.95	55643	8.67	101070	11.03	91280	15.72	79172	18.27
ZZZZZZ	30302	4.21	115804	5.95	65464	8.67	121314	11.03	112255	15.72	95224	18.27
JC19636-1	30039	4.21	111352	5.95	63412	8.67	110616	11.03	97306	15.72	81045	18.27
ZZZZZZ	29041	4.21	106157	5.95	55881	8.67	90242	11.03	95364	15.76	104952	18.35
ZZZZZZ	33295	4.21	118626	5.96	65900	8.68	108533	11.04	89341	15.74	84031	18.29
OP93718-MB1	26312	4.21	94951	5.96	54703	8.67	98257	11.04	73259	15.73	62700	18.29
OP93718-BS1	26389	4.21	94286	5.96	53563	8.68	96657	11.04	81231	15.74	66269	18.28
OP93718-BSD	27354	4.21	99479	5.96	57400	8.68	101925	11.04	89694	15.74	69497	18.29
ZZZZZZ	24261	4.21	90384	5.96	51107	8.67	91639	11.04	86564	15.73	68614	18.28
ZZZZZZ	30001	4.21	109464	5.95	63590	8.67	115861	11.04	105851	15.73	82792	18.28
ZZZZZZ	22435	4.21	83200	5.96	46751	8.67	82140	11.04	67497	15.73	55508	18.27
ZZZZZZ	26161	4.21	97605	5.96	56522	8.67	98817	11.04	87499	15.73	68035	18.27
ZZZZZZ	30563	4.22	113874	5.95	59761	8.67	97875	11.04	75402	15.73	64894	18.28
ZZZZZZ	27768	4.21	94912	5.95	51067	8.67	84177	11.04	100050	15.80	97453	18.42
ZZZZZZ	25626	4.22	86601	5.97	47507	8.71	79759	11.08	84223	15.83	76631	18.38
ZZZZZZ	33264	4.22	115218	5.97	59504	8.69	93818	11.06	87975	15.77	78453	18.33

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: JC19759
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
JC19759-1	P104683.D	0* [a]	0* [a]	0* [a]	0* [a]	0* [a]	0* [a]
JC19759-1	6P25727.D	35	24	83	67	71	75
JC19759-2	P104681.D	0* [a]	0* [a]	0* [a]	0* [a]	0* [a]	0* [a]
JC19759-2	6P25728.D	33	23	80	66	69	70
JC19759-3	P104680.D	37	22	86	72	70	76
JC19759-4	P104684.D	0* [a]	0* [a]	0* [a]	0* [a]	0* [a]	0* [a]
JC19759-4	6P25730.D	36	25	78	61	65	75
JC19759-5	P104682.D	0* [a]	0* [a]	0* [a]	0* [a]	0* [a]	0* [a]
JC19759-5	6P25731.D	39	27	95	69	75	89
JC19759-6	P104685.D	0* [a]	0* [a]	0* [a]	0* [a]	0* [a]	0* [a]
JC19759-6	6P25732.D	39	29	88	70	74	83
OP93693-BS1	6P25724.D	39	28	101	69	76	93
OP93693-MB1	6P25719.D	36	24	90	71	76	94
OP93693-MB1	P104679.D	39	25	78	73	70	82
OP93693-MS	6P25725.D	54	48	96	74	84	85
OP93693-MSD	6P25726.D	54	49	99	73	83	88

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 control limits due to dilution.

Semivolatile Surrogate Recovery Summary

Job Number: JC19759
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
JC19759-1	3M61153.D	59	71	74
JC19759-2	3M61154.D	55	69	68
JC19759-3	3M61161.D	69	66	78
JC19759-4	3M61156.D	49	71	76
JC19759-5	3M61157.D	54	77	86
JC19759-6	3M61158.D	57	71	79
OP93693A-BS12	3M61150.D	52	73	89
OP93693A-MB1	3M61149.D	46	66	85
OP93693A-MS	3M61151.D	53	70	83
OP93693A-MSD	3M61152.D	54	73	88

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

Initial Calibration Summary

Job Number: JC19759
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: JC19759 **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: JC19759 **Sample:** E3M2855-ICV2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60772.D
Project: BMSMC, Building 5 Area, PR

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: JC19759 **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: JC19759
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: JC19759 **Sample:** E3M2875-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61148.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2875\3m61148.D          Vial: 2
Acq On    :  6 May 2016  10:46 pm                    Operator: juliusj
Sample    : cc2855-0.5                               Inst    : MS3M
Misc      : op93629a,e3m2875                         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 17:01:34 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-Methylnaphthalene-d10	1.000	1.000	0.0	111	-0.02	10.41
2	t	1,4-dioxane	0.207	0.173	16.4	90	-0.02	2.14
3	S	2-Fluorophenol	0.500	0.465	7.0	99	-0.07	4.35
4	S	Phenol-d5	0.828	0.758	8.5	96	-0.03	5.95
5		Phenol	0.893	0.789	11.6	94	-0.03	5.96
6	t	bis(2-Chloroethyl)ether	0.675	0.547	19.0	85	0.00	6.08
7	S	Nitrobenzene-d5	0.770	0.626	18.7	83	-0.06	7.51
8	t	Nitrobenzene	0.836	0.724	13.4	96	-0.06	7.55
9	t	Naphthalene	2.223	1.840	17.2	93	0.13	8.91
10	t	Hexachlorobutadiene	0.387	0.363	6.2	99	-0.03	9.21
11	t	2-Methylnaphthalene	1.158	1.201	-3.7	117	-0.02	10.28
12	t	1-Methylnaphthalene	1.559	1.207	22.6#	96	-0.02	10.47
13		Hexachlorocyclopentadiene	0.308	0.248	19.5	85	0.00	10.63
14	I	Fluorene-d10	1.000	1.000	0.0	93	-0.02	13.41
15	S	2-Fluorobiphenyl	1.099	1.112	-1.2	93	-0.04	11.08
16	t	Acenaphthylene	1.385	1.483	-7.1	93	-0.04	12.06
17	t	Acenaphthene	0.925	0.961	-3.9	94	-0.04	12.41
		----------	True	Calc.	% Drift		----------	
18	t	4,6-dinitro-2-methylpheno	2.500	2.485	0.6	118	0.00	13.64
		----------	AvgRF	CCRF	% Dev		----------	
19	t	Fluorene	1.110	1.093	1.5	89	-0.02	13.45
20	S	2,4,6-Tribromophenol	0.125	0.129	-3.2	89	0.00	13.96
21	I	Fluoranthene-d10	1.000	1.000	0.0	97	-0.02	17.62
22	t	Hexachlorobenzene	0.189	0.182	3.7	93	-0.07	14.55
		----------	True	Calc.	% Drift		----------	
23	t	Pentachlorophenol	2.500	2.211	11.6	87	-0.05	14.98
		----------	AvgRF	CCRF	% Dev		----------	
24	t	Phenanthrene	0.980	0.935	4.6	91	-0.03	15.37
25	t	Anthracene	0.865	0.862	0.3	91	-0.03	15.46
26	t	Fluoranthene	1.231	1.034	16.0	92	-0.02	17.65
27	t	Pyrene	1.144	1.095	4.3	91	-0.03	18.04
28	S	Terphenyl-d14	0.580	0.583	-0.5	95	0.00	18.43
29	t	Benzo[a]anthracene	1.097	0.950	13.4	89	0.19	20.13
30	t	Chrysene	1.051	1.015	3.4	97	-0.06	20.19
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	95	-0.02	22.23

Continuing Calibration Summary

Job Number: JC19759 **Sample:** E3M2875-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61148.D
Project: BMSMC, Building 5 Area, PR

32	t	Benzo[b]fluoranthene	1.331	1.406	-5.6	104	-0.02	21.80
33	t	Benzo[k]fluoranthene	1.232	0.987	19.9	82	-0.02	21.84
34	t	Benzo[a]pyrene	1.240	1.096	11.6	89	-0.16	22.26
35	t	Indeno[1,2,3-cd]pyrene	1.260	1.292	-2.5	97	-0.03	23.71
36	t	Dibenz[a,h]anthracene	1.039	0.924	11.1	90	-0.03	23.75
37	t	Benzo[g,h,i]perylene	1.095	1.078	1.6	94	-0.04	24.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m60764a.D M3M2855SIM.M Sat May 07 13:38:06 2016 RPT1

6.7.5
6

Continuing Calibration Summary

Job Number: JC19759 **Sample:** E3M2876-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61160.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2876\3m61160.D          Vial: 2
Acq On    :  9 May 2016   9:06 am                    Operator: linseyk
Sample    : cc2855-1                                 Inst    : MS3M
Misc      : op93693a,e3m2876                         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  : Mon May 09 09:04:11 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	67	-0.04	10.39
2	t	1,4-dioxane	0.207	0.210	-1.4	67	-0.03	2.13
3	S	2-Fluorophenol	0.500	0.531	-6.2	70	-0.10	4.32
4	S	Phenol-d5	0.828	0.859	-3.7	67	-0.04	5.94
5		Phenol	0.893	0.874	2.1	63	-0.04	5.95
6	t	bis(2-Chloroethyl)ether	0.675	0.632	6.4	60	-0.01	6.07
7	S	Nitrobenzene-d5	0.770	0.743	3.5	62	-0.06	7.51
8	t	Nitrobenzene	0.836	0.768	8.1	60	-0.08	7.53
9	t	Naphthalene	2.223	2.156	3.0	66	0.13	8.91
10	t	Hexachlorobutadiene	0.387	0.437	-12.9	73	-0.04	9.19
11	t	2-Methylnaphthalene	1.158	1.169	-0.9	65	-0.02	10.28
12	t	1-Methylnaphthalene	1.559	1.276	18.2	61	-0.02	10.47
13		Hexachlorocyclopentadiene	0.308	0.387	-25.6#	73	-0.02	10.61
14	I	Fluorene-d10	1.000	1.000	0.0	72	-0.04	13.39
15	S	2-Fluorobiphenyl	1.099	1.037	5.6	67	-0.06	11.07
16	t	Acenaphthylene	1.385	1.375	0.7	64	-0.06	12.04
17	t	Acenaphthene	0.925	0.876	5.3	64	-0.05	12.40
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	5.827	-16.5	86	-0.02	13.62
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.110	1.047	5.7	63	-0.02	13.45
20	S	2,4,6-Tribromophenol	0.125	0.127	-1.6	69	-0.01	13.94
21	I	Fluoranthene-d10	1.000	1.000	0.0	69	-0.03	17.61
22	t	Hexachlorobenzene	0.189	0.183	3.2	67	-0.08	14.53
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	4.495	10.1	60	-0.06	14.96
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.980	0.932	4.9	64	-0.05	15.35
25	t	Anthracene	0.865	0.868	-0.3	64	-0.03	15.46
26	t	Fluoranthene	1.231	1.053	14.5	63	-0.03	17.64
27	t	Pyrene	1.144	1.036	9.4	61	-0.05	18.02
28	S	Terphenyl-d14	0.580	0.594	-2.4	73	0.00	18.43
29	t	Benzo[a]anthracene	1.097	0.934	14.9	60	-0.03	20.13
30	t	Chrysene	1.051	0.942	10.4	61	-0.07	20.17
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	70	-0.03	22.21

Continuing Calibration Summary

Job Number: JC19759 **Sample:** E3M2876-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61160.D
Project: BMSMC, Building 5 Area, PR

32	t	Benzo[b]fluoranthene	1.331	1.235	7.2	64	-0.02	21.79
33	t	Benzo[k]fluoranthene	1.232	1.089	11.6	61	-0.03	21.83
34	t	Benzo[a]pyrene	1.240	1.066	14.0	61	-0.17	22.24
35	t	Indeno[1,2,3-cd]pyrene	1.260	1.232	2.2	64	-0.03	23.71
36	t	Dibenz[a,h]anthracene	1.039	1.036	0.3	67	-0.03	23.75
37	t	Benzo[g,h,i]perylene	1.095	1.060	3.2	65	-0.04	24.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m60763a.D M3M2855SIM.M Mon May 09 12:00:36 2016 RPT1

Initial Calibration Summary

Job Number: JC19759 **Sample:** E6P1155-ICC1155
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P24819A.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS6P

Method : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
Last Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

Calibration Files
2 =6p24812.D 5 =6p24818.D 25 =6p24816.D 80 =6p24815.D
100 =6p24814.D 50 =6p24819A.D 1 =6p24813.D 10 =6p24817.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.717	0.735	0.713	0.696	0.677	0.708	0.780	0.714	0.718	4.23
3) Pyridine	1.769	1.826	1.818	1.810	1.724	1.765	1.912	1.827	1.806	3.10
4) N-Nitrosodim	1.173	1.114	1.107	1.075	1.036	1.093	1.195	1.075	1.108	4.76
5) 2-Fluorophen	1.426	1.443	1.440	1.391	1.336	1.414	1.476	1.425	1.419	2.93
6) Indene	2.583	2.738	2.499	2.198	2.060	2.322	2.699	2.609	2.463	9.96
7) Cumene	4.058	4.078	3.874	3.628	3.437	3.800	4.020	3.933	3.853	5.83
8) Phenol-d5	1.803	1.941	1.919	1.821	1.720	1.832	1.987	1.897	1.865	4.64
9) Phenol	2.258	2.294	2.178	1.978	1.871	2.081	2.164	2.172	2.125	6.68
10) Aniline	2.648	2.556	2.177	1.832	1.709	1.955	2.505	2.333	2.214	15.95
11) bis(2-Chloro	1.601	1.634	1.550	1.468	1.401	1.490	1.609	1.551	1.538	5.19
12) 2-Chlorophen	1.626	1.585	1.546	1.438	1.371	1.488	1.499	1.538	1.511	5.39
13) Decane	1.943	1.952	1.810	1.656	1.589	1.710	1.866	1.839	1.796	7.38
14) 1,3-Dichloro	1.691	1.707	1.600	1.493	1.413	1.550	1.717	1.615	1.598	6.79
15) 1,4-Dichloro	1.748	1.654	1.619	1.490	1.434	1.553	1.685	1.673	1.607	6.62
16) Benzyl alcoh	1.028	1.041	1.016	0.970	0.916	1.004	0.984	1.005	0.995	3.94
17) 1,2-Dichloro	1.547	1.592	1.493	1.379	1.303	1.437	1.528	1.545	1.478	6.63
18) Acetophenone	2.251	2.287	2.124	1.873	1.772	1.961	2.371	2.204	2.105	10.17
19) 2-Methylphen	1.405	1.426	1.392	1.211	1.134	1.251	1.323	1.385	1.316	8.08
20) 2,2'-oxybis(	0.538	0.544	0.529	0.480	0.456	0.505	0.554	0.540	0.518	6.68
21) 3&4-Methylph	1.512	1.475	1.418	1.258	1.182	1.298	1.430	1.467	1.380	8.61
22) n-Nitroso-di	1.329	1.326	1.249	1.101	1.053	1.152	1.401	1.304	1.239	10.00
23) Hexachloroet	0.585	0.578	0.571	0.556	0.526	0.559	0.593	0.582	0.569	3.74
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.448	0.442	0.441	0.431	0.416	0.432	0.448	0.447	0.438	2.56
26) Nitrobenzene	0.467	0.483	0.475	0.443	0.424	0.449	0.473	0.471	0.461	4.29
27) Quinoline	0.707	0.731	0.707	0.690	0.665	0.679	0.707	0.714	0.700	2.95
28) Isophorone	0.815	0.809	0.780	0.742	0.710	0.747	0.760	0.799	0.770	4.78
29) 2-Nitropheno	0.167	0.183	0.193	0.183	0.174	0.187	0.174	0.188	0.181	4.86
30) 2,4-Dimethyl	0.330	0.335	0.354	0.368	0.357	0.359	0.294	0.338	0.342	6.81
31) Benzoic acid	0.197	0.223	0.286	0.324	0.311	0.299		0.245	0.269	17.86
32) bis(2-Chloro	0.475	0.478	0.453	0.427	0.411	0.437	0.483	0.470	0.454	5.88
33) 2,4-Dichloro	0.302	0.296	0.296	0.276	0.268	0.284	0.280	0.294	0.287	4.12
34) 2,6-Dichloro	0.297	0.299	0.290	0.266	0.256	0.274	0.293	0.289	0.283	5.62
35) 1,3,5-Trichl	0.381	0.372	0.341	0.307	0.295	0.327	0.351	0.361	0.342	8.88
36) 1,2,4-Trichl	0.344	0.357	0.335	0.308	0.295	0.321	0.355	0.345	0.332	6.73
37) 1,2,3-Trichl	0.337	0.339	0.322	0.297	0.286	0.307	0.330	0.340	0.320	6.47
38) Naphthalene	1.154	1.139	1.070	0.987	0.949	1.022	1.112	1.093	1.066	6.88
39) 4-Chloroanil	0.459	0.472	0.445	0.391	0.368	0.410	0.434	0.467	0.431	8.76
40) 2,3-Dichloro	0.360	0.371	0.357	0.334	0.316	0.338	0.351	0.374	0.350	5.65
41) Caprolactam	0.175	0.173	0.186	0.185	0.179	0.178	0.173	0.179	0.178	2.70
42) Hexachlorobu	0.203	0.198	0.184	0.173	0.167	0.180	0.192	0.199	0.187	6.95
43) 4-Chloro-3-m	0.329	0.340	0.346	0.342	0.331	0.338	0.345	0.343	0.339	1.87
44) 2-Methylnaph	0.603	0.607	0.582	0.541	0.518	0.554	0.590	0.595	0.574	5.62
45) 1-Methylnaph	0.663	0.642	0.605	0.554	0.537	0.573	0.588	0.624	0.598	7.26

```
46) Dimethylnaph 0.696 0.704 0.681 0.627 0.597 0.634 0.667 0.691 0.662   5.81

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.298 0.315 0.339 0.336 0.321 0.351 0.278 0.335 0.322   7.51
49) 2,4,6-Trichl 0.357 0.364 0.352 0.338 0.322 0.346 0.312 0.346 0.342   5.11
50) 2,4,5-Trichl 0.345 0.388 0.380 0.377 0.357 0.379 0.351 0.387 0.370   4.57
51) 2-Fluorobiph 1.378 1.378 1.281 1.199 1.149 1.253 1.307 1.333 1.285   6.40
52) 2-Chloronaph 1.211 1.225 1.152 1.060 1.006 1.107 1.161 1.172 1.137   6.57
53) Biphenyl     1.625 1.650 1.527 1.429 1.360 1.512 1.609 1.593 1.538   6.62
54) 2-Nitroanili 0.407 0.383 0.429 0.438 0.416 0.438 0.387 0.408 0.413   5.16
55) Dimethylphth 1.395 1.377 1.311 1.259 1.209 1.281 1.314 1.328 1.309   4.62
56) Acenaphthyle 1.779 1.824 1.771 1.677 1.610 1.726 1.754 1.783 1.740   3.94
57) 2,6-Dinitrot 0.237 0.248 0.270 0.287 0.271 0.286 0.209 0.262 0.259  10.14
58) 3-Nitroanili 0.309 0.303 0.332 0.328 0.316 0.327 0.259 0.329 0.313   7.66
59) Acenaphthene 1.231 1.250 1.195 1.110 1.057 1.144 1.217 1.216 1.178   5.72
60) 2,4-Dinitrop 0.068 0.077 0.142 0.177 0.167 0.165       0.101 0.128  35.44
         ----- Quadratic regression -----                Coefficient =  0.9970
              Response Ratio = -0.02860 + 0.18075 *A + -0.00098 *A^2

61) 4-Nitropheno 0.169 0.182 0.205 0.217 0.209 0.217 0.162 0.192 0.194  11.04
62) Dibenzofuran 1.702 1.698 1.564 1.406 1.355 1.502 1.684 1.616 1.566   8.57
63) 2,4-Dinitrot 0.321 0.329 0.380 0.362 0.347 0.369 0.258 0.360 0.341  11.41
64) 2,3,4,6-Tetr 0.314 0.302 0.328 0.330 0.311 0.331 0.286 0.313 0.314   4.93
65) Diethylphtha 1.299 1.298 1.282 1.243 1.190 1.274 1.194 1.319 1.262   3.85
66) Fluorene     1.371 1.395 1.337 1.243 1.192 1.296 1.300 1.367 1.313   5.29
67) 4-Chlorophen 0.721 0.726 0.696 0.629 0.602 0.660 0.737 0.704 0.684   7.13
68) 4-Nitroanili 0.296 0.300 0.330 0.335 0.320 0.331 0.262 0.315 0.311   7.87

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.079 0.126 0.148 0.144 0.138       0.092 0.121  24.00
            ----- Linear regression -----  Coefficient =  0.9988
              Response Ratio = -0.01264 + 0.15054 *A

71) n-Nitrosodip 0.558 0.582 0.560 0.538 0.515 0.548 0.526 0.564 0.549   3.97
72) 1,2-Diphenyl 0.899 0.907 0.905 0.864 0.838 0.890 0.839 0.901 0.880   3.31
73) 2,4,6-Tribro 0.090 0.088 0.100 0.098 0.096 0.101 0.083 0.091 0.093   6.78
74) 4-Bromopheny 0.225 0.223 0.219 0.207 0.201 0.213 0.203 0.218 0.214   4.38
75) Hexachlorobe 0.222 0.236 0.223 0.208 0.202 0.214 0.216 0.226 0.219   4.89
76) Pentachlorop 0.135 0.126 0.149 0.147 0.140 0.148 0.107 0.137 0.136  10.37
77) Phenanthrene 1.242 1.227 1.152 1.076 1.044 1.109 1.191 1.180 1.153   6.15
78) Anthracene   1.194 1.207 1.168 1.099 1.054 1.134 1.095 1.196 1.143   4.93
79) Carbazole    1.040 1.053 1.023 0.980 0.940 1.004 0.966 1.040 1.006   4.03
80) Di-n-butylph 1.188 1.204 1.259 1.204 1.160 1.227 1.046 1.240 1.191   5.56
81) Fluoranthene 1.288 1.271 1.280 1.226 1.191 1.259 1.194 1.281 1.249   3.18
82) Octadecane   0.544 0.557 0.567 0.527 0.512 0.552 0.515 0.570 0.543   4.16

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.302 1.315 1.284 1.276 1.221 1.255 1.132 1.271 1.257   4.61
85) Terphenyl-d1 0.742 0.767 0.780 0.774 0.738 0.751 0.706 0.755 0.752   3.14
86) Butylbenzylp 0.485 0.452 0.525 0.540 0.520 0.531 0.409 0.485 0.493   9.16
87) Butyl steara 0.322 0.322 0.370 0.372 0.355 0.362 0.262 0.334 0.337  10.87
88) Benzo[a]anth 1.177 1.122 1.139 1.136 1.083 1.114 1.183 1.106 1.132   3.02
89) 3,3'-Dichlor 0.349 0.348 0.389 0.390 0.377 0.380 0.328 0.365 0.366   6.07
90) Chrysene     1.152 1.148 1.149 1.136 1.093 1.130 1.131 1.146 1.136   1.69
91) bis(2-Ethylh 0.634 0.634 0.731 0.751 0.713 0.733 0.540 0.679 0.677  10.47

92) I   Perylene-d12          ----------------ISTD---------------------
93) Di-n-octylph 1.150 1.132 1.357 1.348 1.290 1.324 0.969 1.245 1.227  10.95
94) Benzo[b]fluo 1.135 1.265 1.228 1.189 1.153 1.196 1.108 1.224 1.187   4.43
95) Benzo[k]fluo 1.154 1.207 1.176 1.108 1.075 1.123 1.011 1.180 1.129   5.69
```

Initial Calibration Summary

Job Number: JC19759 **Sample:** E6P1155-ICC1155
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P24819A.D
Project: BMSMC, Building 5 Area, PR

```
 96) Benzo[a]pyre 1.024 1.049 1.084 1.055 1.026 1.062 0.898 1.065 1.033   5.62
 97) Indeno[1,2,3 0.905 0.923 1.008 1.085 1.064 1.068 0.758 0.973 0.973  11.28
 98) Dibenz(a,h)a 0.863 0.841 0.938 0.953 0.922 0.949 0.770 0.903 0.892   7.14
 99) Dibenz[a,h]a 1.006 1.065 1.099 1.079 1.051 1.099 0.972 1.073 1.056   4.27
100) 7,12-Dimethy 0.421 0.452 0.531 0.518 0.500 0.520 0.373 0.474 0.474  11.69
101) Benzo[g,h,i] 1.065 1.034 1.088 1.083 1.052 1.103 1.036 1.063 1.065   2.34
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M6P1155.M         Wed Apr 06 10:20:24 2016   ACLIMS
```

Initial Calibration Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1156-ICC1156
Lab FileID: 6P24825.D

```
                          Response Factor Report  MS6P

  Method       : C:\MSDCHEM\1\METHODS\M6P1156.M (RTE Integrator)
  Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
  Last Update  : Wed Apr 06 09:04:01 2016
  Response via : Initial Calibration

  Calibration Files
  2   =6p24829.D  5   =6p24828.D  25  =6p24826.D  80  =6p24824.D
  100 =6p24823.D  50  =6p24825.D  1   =6p24830.D  10  =6p24827.D

   Compound          2     5     25    80    100   50    1     10    Avg %RSD
  ---------------------------------------------------------------------------
102)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
103) Benzaldehyde 1.410 1.378 1.247 1.107 0.905 1.205 1.399 1.255 1.238  13.81

104)     Acenaphthene-d10a     ----------------ISTD---------------------
105) 1,2,4,5-Tetr 0.688 0.694 0.617 0.583 0.557 0.597 0.716 0.620 0.634   9.18

106)     Phenanthrene-d10a     ----------------ISTD---------------------
107) Atrazine     0.098 0.112 0.116 0.110 0.109 0.114 0.097 0.108 0.108   6.57
108) o-Terphenyl  0.623 0.657 0.589 0.547 0.545 0.569 0.626 0.603 0.595   6.75
109) 1-Chloroocta 0.288 0.346 0.350 0.337 0.327 0.353 0.266 0.334 0.325   9.64

110) I   Chrysene-d12a         ----------------ISTD---------------------
111) benzidine    0.462 0.595 0.584 0.461 0.384 0.599 0.357 0.574 0.502  19.64

112) I   Naphthalene-d8a       ----------------ISTD---------------------
113) Hydroquinone 0.216 0.269 0.340 0.362 0.351 0.364       0.298 0.314  17.72
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M6P1155.M         Wed Apr 06 10:18:46 2016   ACLIMS
```

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1156-ICV1155
Lab FileID: 6P24832.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1156\6p24832.D Vial: 11
Acq On : 6 Apr 2016 1:39 am Operator: sarad
Sample : icv1155-50 Inst : MS6P
Misc : op92208,e6p1156 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
Last Update : Wed Apr 06 09:04:01 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	109	0.00	4.68
3	t	Pyridine	1.806	1.665	7.8	103	0.11	2.67
10		Aniline	2.214	2.309	-4.3	129	0.01	4.44
16	t	Benzyl alcohol	0.995	0.941	5.4	103	0.00	4.79
24	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00	5.76
39	t	4-Chloroaniline	0.431	0.400	7.2	109	0.00	5.83
44	t	2-Methylnaphthalene	0.574	0.514	10.5	103	0.00	6.51
47	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	7.82
54	t	2-Nitroaniline	0.413	0.369	10.7	95	0.00	7.22
58	t	3-Nitroaniline	0.313	0.275	12.1	95	0.00	7.77
62	t	Dibenzofuran	1.566	1.437	8.2	109	0.00	8.11
68	t	4-Nitroaniline	0.311	0.255	18.0	88	0.00	8.63
69	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00	9.98
79	t	Carbazole	1.006	0.897	10.8	100	0.01	10.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24825a.D M6P1155.M Wed Apr 06 09:32:08 2016 ACLIMS

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1156-ICV1155
Lab FileID: 6P24833.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1156\6p24833.D Vial: 12
Acq On : 6 Apr 2016 2:06 am Operator: sarad
Sample : icv1155-50 Inst : MS6P
Misc : op92208,e6p1156 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
Last Update : Wed Apr 06 09:04:01 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	117	0.00	4.67
5	S	2-Fluorophenol	1.419	1.253	11.7	103	0.00	3.70
8	S	Phenol-d5	1.865	1.623	13.0	103	0.00	4.41
24	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00	5.76
25	S	Nitrobenzene-d5	0.438	0.390	11.0	103	0.00	5.11
47	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	7.82
51	S	2-Fluorobiphenyl	1.285	1.170	8.9	105	0.00	6.95
69	I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00	9.98
73	S	2,4,6-Tribromophenol	0.093	0.080	14.0	89	0.00	8.94

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24825a.D M6P1155.M Wed Apr 06 09:32:10 2016 ACLIMS

Initial Calibration Verification

Job Number: JC19759 **Sample:** E6P1156-ICV1155
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P24834.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1156\6p24834.D Vial: 13
Acq On : 6 Apr 2016 2:34 am Operator: sarad
Sample : icv1155-50 Inst : MS6P
Misc : op92208,e6p1156 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
Last Update : Wed Apr 06 09:04:01 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	104	0.00	4.67
4	t	N-Nitrosodimethylamine	1.108	1.022	7.8	97	0.02	2.54
11	t	bis(2-Chloroethyl)ether	1.538	1.506	2.1	105	0.00	4.48
14	t	1,3-Dichlorobenzene	1.598	1.479	7.4	99	0.00	4.63
15	t	1,4-Dichlorobenzene	1.607	1.521	5.4	102	0.00	4.69
17	t	1,2-Dichlorobenzene	1.478	1.405	4.9	102	0.00	4.81
20	t	2,2'-oxybis(1-Chloropropa	0.518	0.465	10.2	96	0.00	4.88
22	t	n-Nitroso-di-n-propylamin	1.239	1.186	4.3	107	0.00	4.99
23	t	Hexachloroethane	0.569	0.549	3.5	102	0.00	5.08
24	I	Naphthalene-d8	1.000	1.000	0.0	103	0.00	5.76
26	t	Nitrobenzene	0.461	0.424	8.0	97	0.00	5.13
28	t	Isophorone	0.770	0.773	-0.4	106	0.00	5.33
32	t	bis(2-Chloroethoxy)methan	0.454	0.413	9.0	97	0.00	5.52
36	t	1,2,4-Trichlorobenzene	0.332	0.313	5.7	100	0.00	5.71
38	t	Naphthalene	1.066	1.016	4.7	102	0.00	5.78
42	t	Hexachlorobutadiene	0.187	0.180	3.7	103	0.00	5.91
47	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00	7.82
48	t	Hexachlorocyclopentadiene	0.322	0.292	9.3	84	0.00	6.71
52	t	2-Chloronaphthalene	1.137	1.102	3.1	100	0.00	7.09
55	t	Dimethylphthalate	1.309	1.198	8.5	94	0.00	7.48
56	t	Acenaphthylene	1.740	1.645	5.5	96	0.00	7.63
57	t	2,6-Dinitrotoluene	0.259	0.252	2.7	89	0.01	7.55
59	t	Acenaphthene	1.178	1.132	3.9	100	0.00	7.87
		----------	AvgRF	CCRF	% Dev	----------		
63	t	2,4-Dinitrotoluene	0.341	0.309	9.4	84	0.00	8.10
65	t	Diethylphthalate	1.262	1.160	8.1	92	0.00	8.48
66	t	Fluorene	1.313	1.246	5.1	97	0.00	8.59
67	t	4-Chlorophenyl-phenylethe	0.684	0.623	8.9	95	0.00	8.61
69	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00	9.98
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.549	0.514	6.4	92	0.00	8.79
72	t	1,2-Diphenylhydrazine	0.880	0.878	0.2	97	0.00	8.84
74	t	4-Bromophenyl-phenylether	0.214	0.208	2.8	95	0.00	9.33
75	t	Hexachlorobenzene	0.219	0.211	3.7	96	0.00	9.41
77	t	Phenanthrene	1.153	1.090	5.5	96	0.00	10.02
78	t	Anthracene	1.143	1.076	5.9	93	0.00	10.10
80	t	Di-n-butylphthalate	1.191	1.124	5.6	90	0.00	11.00

Initial Calibration Verification

Job Number: JC19759 **Sample:** E6P1156-ICV1155
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P24834.D
Project: BMSMC, Building 5 Area, PR

81	t	Fluoranthene	1.249	1.176	5.8	91	0.00	11.87
83	I	Chrysene-d12	1.000	1.000	0.0	91	0.00	14.15
84	t	Pyrene	1.257	1.272	-1.2	92	0.00	12.22
86	t	Butylbenzylphthalate	0.493	0.490	0.6	84	0.00	13.37
88	t	Benzo[a]anthracene	1.132	1.066	5.8	87	0.00	14.13
90	t	Chrysene	1.136	1.069	5.9	86	0.01	14.19
91	t	bis(2-Ethylhexyl)phthalat	0.677	0.673	0.6	84	0.00	14.34
92	I	Perylene-d12	1.000	1.000	0.0	86	0.00	16.25
93	t	Di-n-octylphthalate	1.227	1.270	-3.5	83	0.00	15.32
94	t	Benzo[b]fluoranthene	1.187	1.127	5.1	81	0.00	15.73
95	t	Benzo[k]fluoranthene	1.129	1.144	-1.3	88	0.01	15.78
96	t	Benzo[a]pyrene	1.033	1.068	-3.4	87	0.01	16.18
97	t	Indeno[1,2,3-cd]pyrene	0.973	0.975	-0.2	79	0.01	17.60
99	t	Dibenz[a,h]anthracene	1.056	1.050	0.6	82	0.01	17.63
101	t	Benzo[g,h,i]perylene	1.065	1.046	1.8	82	0.01	17.94

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24825a.D M6P1155.M Wed Apr 06 09:32:12 2016 ACLIMS

6.7.11
6

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1156-ICV1156
Lab FileID: 6P24834A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E6P1156\6p24834a.D         Vial: 13
Acq On    :  6 Apr 2016   2:34 am                    Operator: sarad
Sample    : icv1156-50                               Inst    : MS6P
Misc      : op92208,e6p1156                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
Last Update  : Wed Apr 06 09:04:01 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	116	0.00	7.82
105	1,2,4,5-Tetrachlorobenzen	0.634	0.600	5.4	117	0.00	6.71

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24825a.D M6P1155.M Wed Apr 06 09:32:14 2016 ACLIMS

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1156-ICV1155
Lab FileID: 6P24835.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1156\6p24835.D Vial: 14
Acq On : 6 Apr 2016 3:01 am Operator: sarad
Sample : icv1155-50 Inst : MS6P
Misc : op92208,e6p1156 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
Last Update : Wed Apr 06 09:04:01 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	110	0.00	4.67
2	t	1,4-Dioxane	0.718	0.623	13.2	97	0.02	2.26
6	t	Indene	2.463	2.336	5.2	111	0.00	4.87
7	t	Cumene	3.853	3.395	11.9	99	0.00	4.08
13	t	Decane	1.796	1.579	12.1	102	0.00	4.56
18	t	Acetophenone	2.105	1.940	7.8	109	0.00	4.98
24	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00	5.76
27	t	Quinoline	0.700	0.612	12.6	98	0.00	6.11
40	t	2,3-Dichloroaniline	0.350	0.268	23.4	86	0.00	6.84
41	t	Caprolactam	0.178	0.151	15.2	92	0.00	6.17
45	t	1-Methylnaphthalene	0.598	0.514	14.0	97	0.00	6.63
46	t	Dimethylnaphthalene	0.662	0.574	13.3	98	0.00	7.27
47	I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00	7.82
53	t	Biphenyl	1.538	1.357	11.8	98	0.00	7.07
69	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00	9.98
82	t	Octadecane	0.543	0.514	5.3	97	0.00	9.95
92	I	Perylene-d12	1.000	1.000	0.0	89	0.00	16.25
100	t	7,12-Dimethylbenz(a)anthr	0.474	0.440	7.2	76	0.00	15.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24825a.D M6P1155.M Wed Apr 06 09:32:16 2016 ACLIMS

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1156-ICV1156
Lab FileID: 6P24835A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E6P1156\6p24835a.D         Vial: 14
Acq On    :  6 Apr 2016   3:01 am                    Operator: sarad
Sample    : icv1156-50                               Inst    : MS6P
Misc      : op92208,e6p1156                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
Last Update  : Wed Apr 06 09:04:01 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	116	0.00	4.67
103	Benzaldehyde	1.238	1.151	7.0	110	0.00	4.35
106	Phenanthrene-d10a	1.000	1.000	0.0	106	0.00	9.98
107	Atrazine	0.108	0.110	-1.9	102	0.02	9.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24825a.D M6P1155.M Wed Apr 06 09:32:18 2016 ACLIMS

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1156-ICV1156
Lab FileID: 6P24836.D

Evaluate Continuing Calibration Report

```
  Data File : C:\msdchem\1\DATA\E6P1156\6p24836.D          Vial: 15
  Acq On    :  6 Apr 2016   3:29 am                    Operator: sarad
  Sample    : icv1156-50                               Inst    : MS6P
  Misc      : op92208,e6p1156                          Multiplr: 1.00
  MS Integration Params: lscint.p

  Method       : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
  Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
  Last Update  : Wed Apr 06 09:04:01 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	92	0.00	5.76
113 T	Hydroquinone	0.314	0.375	-19.4	95	0.00	6.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24825a.D M6P1155.M Wed Apr 06 09:32:20 2016 ACLIMS

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1156-ICV1156
Lab FileID: 6P24837A.D

```
                    Evaluate Continuing Calibration Report

  Data File : C:\msdchem\1\DATA\E6P1156\6p24837a.D         Vial: 16
  Acq On    :  6 Apr 2016   3:56 am                    Operator: sarad
  Sample    : icv1156-50                               Inst    : MS6P
  Misc      : op92208,e6p1156                          Multiplr: 1.00
  MS Integration Params: lscint.p

  Method       : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
  Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
  Last Update  : Wed Apr 06 09:04:01 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   91   0.00   14.14
111 T   benzidine                   0.502   0.724    -44.2# 110   0.00   12.13
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range               SPCC's out = 0  CCC's out = 0
     6p24825a.D M6P1155.M        Wed Apr 06 09:32:24 2016   ACLIMS
```

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1156-ICV1155
Lab FileID: 6P24837.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1156\6p24837.D Vial: 16
Acq On : 6 Apr 2016 3:56 am Operator: sarad
Sample : icv1155-50 Inst : MS6P
Misc : op92208,e6p1156 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
Last Update : Wed Apr 06 09:04:01 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	93	0.00	14.14
89 t	3,3'-Dichlorobenzidine	0.366	0.360	1.6	88	0.00	14.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24825a.D M6P1155.M Wed Apr 06 09:32:22 2016 ACLIMS

Initial Calibration Verification

Job Number: JC19759 **Sample:** E6P1157-ICV1155
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P24839.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1157\6p24839.D Vial: 2
Acq On : 6 Apr 2016 9:53 am Operator: ashleyd
Sample : icv1155-50 Inst : MS6P
Misc : op92208,e6p1157 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
Last Update : Wed Apr 06 09:04:01 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	4.67
9	t	Phenol	2.125	1.765	16.9	95	0.00	4.42
12	t	2-Chlorophenol	1.511	1.336	11.6	100	0.00	4.52
19	t	2-Methylphenol	1.316	1.291	1.9	115	0.00	4.87
21	t	3&4-Methylphenol	1.380	1.360	1.4	117	0.00	4.99
24	I	Naphthalene-d8	1.000	1.000	0.0	112	0.00	5.75
29	t	2-Nitrophenol	0.181	0.175	3.3	104	0.00	5.40
30	t	2,4-Dimethylphenol	0.342	0.356	-4.1	111	0.00	5.44
31	t	Benzoic acid	0.269	0.281	-4.5	105	0.05	5.56
33	t	2,4-Dichlorophenol	0.287	0.262	8.7	103	0.00	5.62
34	t	2,6-Dichlorophenol	0.283	0.260	8.1	106	0.00	5.84
43	t	4-Chloro-3-methylphenol	0.339	0.311	8.3	103	0.00	6.34
47	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	7.81
49	t	2,4,6-Trichlorophenol	0.342	0.328	4.1	107	0.00	6.84
50	t	2,4,5-Trichlorophenol	0.370	0.336	9.2	100	0.00	6.88
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	39.194	21.6	80	0.00	7.90
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.194	0.190	2.1	99	0.00	8.03
64		2,3,4,6-Tetrachlorophenol	0.314	0.293	6.7	100	0.00	8.28
69	I	Phenanthrene-d10	1.000	1.000	0.0	113	0.00	9.98
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	41.015	18.0	93	0.00	8.67
		----------	AvgRF	CCRF	% Dev	----------		
76	t	Pentachlorophenol	0.136	0.134	1.5	102	0.00	9.71

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24825a.D M6P1155.M Wed Apr 06 10:15:58 2016 ACLIMS

Continuing Calibration Summary

Job Number: JC19759 **Sample:** E6P1201-CC1155
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25715.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1201\6p25715.D Vial: 2
Acq On : 6 May 2016 10:03 pm Operator: seanb1
Sample : cc1155-25 Inst : MS6P
Misc : op93693,e6p1201 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:48:14 2016
Last Update : Sat May 07 10:48:14 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	121	-0.02	4.53
2	t	1,4-Dioxane	0.718	0.443	38.3#	75	0.00	2.06
3	t	Pyridine	1.806	1.205	33.3#	80	-0.11	2.39
4	t	N-Nitrosodimethylamine	1.108	0.710	35.9#	77	0.00	2.37
5	S	2-Fluorophenol	1.419	1.185	16.5	99	0.00	3.59
6	t	Indene	2.463	2.397	2.7	116	-0.02	4.73
7	t	Cumene	3.853	3.481	9.7	108	-0.04	3.93
8	S	Phenol-d5	1.865	1.645	11.8	104	-0.01	4.31
9	t	Phenol	2.125	1.769	16.8	98	0.03	4.33
10		Aniline	2.214	1.693	23.5#	94	0.00	4.30
11	t	bis(2-Chloroethyl)ether	1.538	1.271	17.4	99	-0.02	4.34
12	t	2-Chlorophenol	1.511	1.353	10.5	106	0.00	4.39
13	t	Decane	1.796	1.530	14.8	102	-0.03	4.41
14	t	1,3-Dichlorobenzene	1.598	1.529	4.3	115	-0.02	4.49
15	t	1,4-Dichlorobenzene	1.607	1.555	3.2	116	-0.02	4.54
16	t	Benzyl alcohol	0.995	0.887	10.9	105	0.00	4.65
17	t	1,2-Dichlorobenzene	1.478	1.474	0.3	119	-0.02	4.66
18	t	Acetophenone	2.105	2.025	3.8	115	-0.01	4.84
19	t	2-Methylphenol	1.316	1.230	6.5	107	-0.03	4.76
20	t	2,2'-oxybis(1-Chloropropa	0.518	0.476	8.1	109	-0.02	4.74
21	t	3&4-Methylphenol	1.380	1.357	1.7	116	-0.03	4.88
22	t	n-Nitroso-di-n-propylamin	1.239	1.171	5.5	113	0.00	4.85
23	t	Hexachloroethane	0.569	0.493	13.4	104	-0.03	4.92
24	I	Naphthalene-d8	1.000	1.000	0.0	122	-0.06	5.59
25	S	Nitrobenzene-d5	0.438	0.405	7.5	112	-0.05	4.97
26	t	Nitrobenzene	0.461	0.410	11.1	105	-0.05	4.98
27	t	Quinoline	0.700	0.681	2.7	117	-0.05	5.95
28	t	Isophorone	0.770	0.693	10.0	108	-0.05	5.18
29	t	2-Nitrophenol	0.181	0.194	-7.2	122	-0.04	5.26
30	t	2,4-Dimethylphenol	0.342	0.331	3.2	114	-0.06	5.31
31	t	Benzoic acid	0.269	0.266	1.1	113	0.04	5.44
32	t	bis(2-Chloroethoxy)methan	0.454	0.373	17.8	100	-0.05	5.37
33	t	2,4-Dichlorophenol	0.287	0.276	3.8	113	-0.02	5.50
34	t	2,6-Dichlorophenol	0.283	0.272	3.9	114	-0.04	5.69
35		1,3,5-Trichlorobenzene	0.342	0.301	12.0	107	-0.05	5.26
36	t	1,2,4-Trichlorobenzene	0.332	0.294	11.4	107	-0.05	5.54
37		1,2,3-Trichlorobenzene	0.320	0.288	10.0	109	-0.06	5.76
38	t	Naphthalene	1.066	1.018	4.5	116	-0.07	5.61
39	t	4-Chloroaniline	0.431	0.394	8.6	108	-0.04	5.68
40	t	2,3-Dichloroaniline	0.350	0.344	1.7	117	-0.04	6.67
41	t	Caprolactam	0.178	0.160	10.1	104	-0.01	6.04

Continuing Calibration Summary

Job Number: JC19759 **Sample:** E6P1201-CC1155
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25715.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.187	0.166	11.2	110	-0.07	5.73
43	t	4-Chloro-3-methylphenol	0.339	0.348	-2.7	122	0.00	6.22
44	t	2-Methylnaphthalene	0.574	0.599	-4.4	125	-0.09	6.33
45	t	1-Methylnaphthalene	0.598	0.637	-6.5	128	-0.05	6.44
46	t	Dimethylnaphthalene	0.662	0.639	3.5	114	-0.05	7.08
47	I	Acenaphthene-d10	1.000	1.000	0.0	125	-0.07	7.63
48	t	Hexachlorocyclopentadiene	0.322	0.242	24.8#	90	-0.09	6.51
49	t	2,4,6-Trichlorophenol	0.342	0.321	6.1	114	-0.08	6.68
50	t	2,4,5-Trichlorophenol	0.370	0.347	6.2	114	-0.13	6.75
51	S	2-Fluorobiphenyl	1.285	1.244	3.2	122	-0.08	6.76
52	t	2-Chloronaphthalene	1.137	1.064	6.4	116	-0.08	6.90
53	t	Biphenyl	1.538	1.447	5.9	119	-0.08	6.88
54	t	2-Nitroaniline	0.413	0.429	-3.9	125	-0.05	7.06
55	t	Dimethylphthalate	1.309	1.286	1.8	123	-0.07	7.29
56	t	Acenaphthylene	1.740	1.860	-6.9	131	-0.07	7.43
57	t	2,6-Dinitrotoluene	0.259	0.294	-13.5	137	-0.06	7.37
58	t	3-Nitroaniline	0.313	0.341	-8.9	129	-0.04	7.60
59	t	Acenaphthene	1.178	1.161	1.4	122	-0.08	7.66
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	45.767	8.5	125	-0.03	7.76
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.194	0.199	-2.6	121	-0.07	7.96
62	t	Dibenzofuran	1.566	1.578	-0.8	126	-0.07	7.91
63	t	2,4-Dinitrotoluene	0.341	0.402	-17.9	132	-0.05	7.93
64		2,3,4,6-Tetrachlorophenol	0.314	0.254	19.1	97	-0.08	8.12
65	t	Diethylphthalate	1.262	1.384	-9.7	135	-0.06	8.28
66	t	Fluorene	1.313	1.332	-1.4	125	-0.07	8.39
67	t	4-Chlorophenyl-phenylethe	0.684	0.586	14.3	105	-0.07	8.41
68	t	4-Nitroaniline	0.311	0.340	-9.3	129	-0.04	8.47
69	I	Phenanthrene-d10	1.000	1.000	0.0	123	-0.09	9.79
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	24.316	2.7	123	-0.08	8.53
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.549	0.538	2.0	118	-0.09	8.59
72	t	1,2-Diphenylhydrazine	0.880	0.880	0.0	119	-0.10	8.64
73	S	2,4,6-Tribromophenol	0.093	0.102	-9.7	124	-0.09	8.75
74	t	4-Bromophenyl-phenylether	0.214	0.192	10.3	108	-0.10	9.13
75	t	Hexachlorobenzene	0.219	0.215	1.8	119	-0.09	9.21
76	t	Pentachlorophenol	0.136	0.118	13.2	98	-0.06	9.55
77	t	Phenanthrene	1.153	1.077	6.6	115	-0.10	9.82
78	t	Anthracene	1.143	1.107	3.1	116	-0.10	9.90
79	t	Carbazole	1.006	1.038	-3.2	125	-0.06	10.19
80	t	Di-n-butylphthalate	1.191	1.401	-17.6	137	-0.09	10.80
81	t	Fluoranthene	1.249	1.187	5.0	114	-0.06	11.67
82	t	Octadecane	0.543	0.532	2.0	115	-0.10	9.74
83	I	Chrysene-d12	1.000	1.000	0.0	109	-0.04	13.97
84	t	Pyrene	1.257	1.297	-3.2	111	-0.04	12.02
85	S	Terphenyl-d14	0.752	0.811	-7.8	114	-0.06	12.33
86	t	Butylbenzylphthalate	0.493	0.662	-34.3#	138	-0.07	13.17
87		Butyl stearate	0.337	0.380	-12.8	113	-0.04	13.34
88	t	Benzo[a]anthracene	1.132	1.085	4.2	104	-0.04	13.95
89	t	3,3'-Dichlorobenzidine	0.366	0.432	-18.0	122	-0.04	13.96
90	t	Chrysene	1.136	1.010	11.1	96	-0.04	14.01

Continuing Calibration Summary

Job Number: JC19759 **Sample:** E6P1201-CC1155
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25715.D
Project: BMSMC, Building 5 Area, PR

91	t	bis(2-Ethylhexyl)phthalat	0.677	0.845	-24.8#	127	-0.06	14.13
92	I	Perylene-d12	1.000	1.000	0.0	97	-0.04	16.09
93	t	Di-n-octylphthalate	1.227	1.740	-41.8#	124	0.00	15.12
94	t	Benzo[b]fluoranthene	1.187	1.294	-9.0	102	-0.04	15.56
95	t	Benzo[k]fluoranthene	1.129	1.125	0.4	92	-0.04	15.60
96	t	Benzo[a]pyrene	1.033	1.036	-0.3	92	-0.02	16.00
97	t	Indeno[1,2,3-cd]pyrene	0.973	0.919	5.5	88	-0.03	17.42
98	t	Dibenz(a,h)acridine	0.892	0.863	3.3	89	-0.08	17.15
99	t	Dibenz[a,h]anthracene	1.056	1.022	3.2	90	-0.04	17.45
100	t	7,12-Dimethylbenz(a)anthr	0.474	0.558	-17.7	102	0.00	15.56
101	t	Benzo[g,h,i]perylene	1.065	0.948	11.0	84	-0.05	17.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24826a.D M6P1155.M Sat May 07 10:49:53 2016 ACLIMS

6.7.19
6

Continuing Calibration Summary

Job Number: JC19759 **Sample:** E6P1201-CC1156
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25716.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1201\6p25716.D Vial: 3
Acq On : 6 May 2016 10:30 pm Operator: seanb1
Sample : cc1156-25 Inst : MS6P
Misc : op93693,e6p1201 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
Last Update : Sat May 07 10:22:18 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	108	-0.05	4.53
103	Benzaldehyde	1.238	1.010	18.4	88	-0.05	4.21
104	Acenaphthene-d10a	1.000	1.000	0.0	124	-0.05	7.62
105	1,2,4,5-Tetrachlorobenzen	0.634	0.492	22.4#	99	-0.05	6.53
106	Phenanthrene-d10a	1.000	1.000	0.0	109	-0.09	9.78
107	Atrazine	0.108	0.115	-6.5	108	-0.07	9.44
108 I	Chrysene-d12a	1.000	1.000	0.0	97	-0.07	13.96
109 T	benzidine	0.502	0.460	8.4	76	-0.09	11.95
110 I	Naphthalene-d8a	1.000	1.000	0.0	107	-0.05	5.59
111 T	Hydroquinone	0.314	0.330	-5.1	104	0.02	6.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p24826a.D M6P1155.M Sat May 07 10:43:49 2016 ACLIMS

Initial Calibration Summary

Job Number: JC19759 **Sample:** EP4601-ICC4601
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104414.D
Project: BMSMC, Building 5 Area, PR

```
                          Response Factor Report  MSP

  Method       : C:\MSDCHEM\1\METHODS\MP4601.M (RTE Integrator)
  Title        : Semi Volatile Extractables by GC/MS
  Last Update  : Fri Apr 29 10:17:45 2016
  Response via : Initial Calibration

  Calibration Files
  2   =P104418.D  5   =P104417.D  25  =P104415.D  80  =P104413.D
  100 =P104412.D  50  =P104414.D  10  =P104416.D  1   =P104419.D

   Compound          2     5     25    80    100   50    10    1     Avg %RSD
  ---------------------------------------------------------------------------
159) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
160) Benzaldehyde 1.116 1.013 1.036 1.002 0.987 1.088 1.086 0.939 1.033   5.78

161) I   Phenanthrene-d10b     ----------------ISTD---------------------
162) Atrazine     0.158 0.183 0.184 0.172 0.170 0.180 0.202 0.158 0.176   8.40

163) I   Chrysene-d12b         ----------------ISTD---------------------
164) Benzidine    0.496 0.569 0.698 0.566 0.502 0.656 0.703       0.598  14.61

165) I   Naphthalene-d8b       ----------------ISTD---------------------
166) Hydroquinone 0.262 0.261 0.335 0.342 0.344 0.358 0.337       0.320  12.65

167) I   Acenaphthene-d10b     ----------------ISTD---------------------
168) 1,2,4,5-Tetr 0.543 0.544 0.540 0.522 0.513 0.540 0.613 0.549 0.545   5.45

 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MP4600.M          Fri Apr 29 13:52:38 2016
```

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4601-ICV4601
Lab FileID: P104422.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4601\P104422.D          Vial: 12
Acq On    : 27 Apr 2016   8:25 pm                   Operator: linseyk
Sample    : icv4601-50                              Inst    : MSP
Misc      : op93197,ep4601                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 10:17:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
167 I	Acenaphthene-d10b	1.000	1.000	0.0	83	0.00	8.71
168	1,2,4,5-Tetrachlorobenzen	0.545	0.643	-18.0	99	0.00	7.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104443A.D MP4600.M Fri Apr 29 13:46:16 2016

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4601-ICV4601
Lab FileID: P104423.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4601\P104423.D          Vial: 13
Acq On    : 27 Apr 2016   8:55 pm                   Operator: linseyk
Sample    : icv4601-50                              Inst    : MSP
Misc      : op93197,ep4601                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 10:17:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  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	93	0.00	4.24
160	Benzaldehyde	1.033	1.121	-8.5	96	0.00	3.72
161 I	Phenanthrene-d10b	1.000	1.000	0.0	83	0.00	11.06
162	Atrazine	0.176	0.198	-12.5	91	0.00	10.74

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104443A.D MP4600.M Fri Apr 29 13:46:17 2016

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4601-ICV4601
Lab FileID: P104425.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4601\P104425.D          Vial: 15
Acq On    : 27 Apr 2016   9:53 pm                   Operator: linseyk
Sample    : icv4601-50                              Inst    : MSP
Misc      : op93197,ep4601                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 10:17:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
165 I	Naphthalene-d8b	1.000	1.000	0.0	80	0.00	5.98
166	Hydroquinone	0.320	0.335	-4.7	75	0.00	6.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104443A.D MP4600.M Fri Apr 29 13:46:18 2016

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4602-ICV4601
Lab FileID: P104434.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4602\P104434.D          Vial: 4
Acq On    : 28 Apr 2016   1:21 pm                   Operator: linseyk
Sample    : icv4601-50                              Inst    : MSP
Misc      : op93197,ep4602                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 10:17:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
163 I	Chrysene-d12b	1.000	1.000	0.0	85	-0.02	15.74
164	Benzidine	0.598	0.766	-28.1	99	-0.02	13.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104443A.D MP4600.M Fri Apr 29 13:51:24 2016

Initial Calibration Summary

Job Number: JC19759 **Sample:** EP4604-ICC4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104443.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSP

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 10:17:45 2016
Response via : Initial Calibration

Calibration Files
2 =P104447.D 5 =P104446.D 25 =P104444.D 80 =P104442.D
100 =P104441.D 50 =P104443.D 10 =P104445.D 1 =P104448.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.588	0.612	0.532	0.552	0.555	0.546	0.554	0.732	0.584	11.16
3) Pyridine	1.042	1.431	1.453	1.444	1.442	1.433	1.350	1.136	1.341	12.01
4) N-Nitrosodim	0.639	0.692	0.737	0.745	0.741	0.760	0.693	0.490	0.687	12.91
5) 2-Fluorophen	1.375	1.446	1.390	1.379	1.369	1.429	1.365	1.304	1.382	3.12
6) Indene	2.499	2.434	2.246	2.031	1.948	2.121	2.255	2.521	2.257	9.55
7) Cumene	3.826	3.746	3.453	3.226	3.110	3.286	3.410	3.784	3.480	7.89
8) Phenol-d5	1.909	1.960	1.845	1.766	1.710	1.785	1.758	1.776	1.814	4.66
9) Phenol	1.882	2.033	1.821	1.721	1.697	1.736	1.821	1.941	1.831	6.35
10) Aniline	2.157	2.424	2.078	1.930	1.870	1.949	2.087	2.185	2.085	8.48
11) bis(2-Chloro	1.416	1.465	1.303	1.239	1.224	1.283	1.251	1.681	1.358	11.53
12) 2-Chlorophen	1.473	1.540	1.344	1.289	1.244	1.333	1.401	1.514	1.392	7.76
13) Decane	1.952	1.842	1.645	1.516	1.465	1.563	1.623	1.811	1.677	10.30
14) 1,3-Dichloro	1.735	1.685	1.530	1.404	1.341	1.419	1.439	1.798	1.544	11.19
15) 1,4-Dichloro	1.573	1.689	1.472	1.402	1.337	1.402	1.411	1.964	1.531	13.58
16) Benzyl alcoh	0.814	0.893	0.882	0.827	0.813	0.839	0.872	0.779	0.840	4.69
17) 1,2-Dichloro	1.518	1.614	1.395	1.277	1.217	1.349	1.409	1.746	1.441	12.22
18) Acetophenone	1.934	2.120	1.906	1.817	1.756	1.861	1.916	2.098	1.926	6.59
19) 2-Methylphen	1.222	1.302	1.216	1.102	1.062	1.145	1.188	1.158	1.174	6.39
20) 2,2'-oxybis(	0.359	0.460	0.403	0.380	0.372	0.384	0.417	0.335	0.389	9.79
21) 3&4-Methylph	1.311	1.444	1.284	1.170	1.141	1.212	1.258	1.254	1.259	7.45
22) n-Nitroso-di	1.077	1.096	0.982	0.940	0.912	0.956	0.971	1.132	1.008	8.08
23) Hexachloroet	0.698	0.607	0.565	0.533	0.520	0.542	0.565	0.733	0.595	13.32
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.471	0.474	0.427	0.412	0.398	0.417	0.423	0.468	0.436	6.91
26) Nitrobenzene	0.462	0.478	0.424	0.403	0.388	0.418	0.428	0.498	0.437	8.67
27) Quinoline	0.802	0.780	0.697	0.681	0.677	0.701	0.704	0.777	0.727	6.87
28) Isophorone	0.761	0.808	0.723	0.707	0.685	0.724	0.708	0.799	0.739	6.09
29) 2-Nitropheno	0.173	0.198	0.196	0.193	0.187	0.195	0.184	0.184	0.189	4.50
30) 2,4-Dimethyl	0.398	0.412	0.365	0.363	0.351	0.363	0.382	0.358	0.374	5.76
31) Benzoic acid		0.240	0.306	0.316	0.318	0.317	0.254		0.292	12.11
32) bis(2-Chloro	0.487	0.511	0.439	0.421	0.421	0.437	0.429	0.458	0.450	7.34
33) 2,4-Dichloro	0.309	0.343	0.297	0.285	0.283	0.294	0.288	0.261	0.295	8.03
34) 2,6-Dichloro	0.298	0.322	0.285	0.267	0.268	0.278	0.271	0.306	0.287	6.97
35) 1,3,5-Trichl	0.377	0.390	0.353	0.327	0.311	0.345	0.358	0.407	0.359	8.94
36) 1,2,4-Trichl	0.353	0.403	0.341	0.320	0.314	0.328	0.328	0.391	0.347	9.55
37) 1,2,3-Trichl	0.379	0.359	0.319	0.296	0.292	0.311	0.313	0.362	0.329	10.07
38) Naphthalene	1.166	1.190	1.050	0.984	0.963	1.033	1.046	1.215	1.081	8.89
39) 4-Chloroanil	0.461	0.508	0.437	0.409	0.396	0.422	0.441	0.491	0.446	8.78
40) 2,3-Dichloro	0.395	0.396	0.359	0.335	0.328	0.350	0.349	0.393	0.363	7.67
41) Caprolactam	0.173	0.212	0.186	0.190	0.188	0.192	0.189	0.176	0.188	6.22
42) Hexachlorobu	0.233	0.245	0.206	0.196	0.188	0.206	0.205	0.203	0.210	8.99
43) 4-Chloro-3-m	0.370	0.351	0.343	0.331	0.327	0.338	0.327	0.290	0.335	6.88
44) 2-Methylnaph	0.684	0.625	0.571	0.540	0.526	0.556	0.572	0.717	0.599	11.62
45) 1-Methylnaph	0.692	0.749	0.645	0.617	0.592	0.641	0.642	0.768	0.668	9.39

Initial Calibration Summary

Job Number: JC19759 **Sample:** EP4604-ICC4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104443.D
Project: BMSMC, Building 5 Area, PR

```
46) Dimethylnaph 0.646 0.665 0.570 0.542 0.523 0.568 0.564 0.650 0.591   9.20

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.414 0.438 0.425 0.430 0.417 0.432 0.411 0.364 0.416   5.56
49) 2,4,6-Trichl 0.405 0.426 0.393 0.381 0.369 0.385 0.395 0.393 0.393   4.27
50) 2,4,5-Trichl 0.432 0.496 0.433 0.420 0.399 0.429 0.415 0.426 0.431   6.59
51) 2-Fluorobiph 1.444 1.515 1.314 1.245 1.228 1.272 1.359 1.639 1.377  10.52
52) 2-Chloronaph 1.337 1.313 1.116 1.057 1.021 1.086 1.105 1.316 1.169  11.13
53) Biphenyl     1.668 1.791 1.428 1.338 1.294 1.371 1.503 1.706 1.512  12.36
54) 2-Nitroanili 0.405 0.446 0.409 0.409 0.406 0.416 0.368 0.470 0.416   7.34
55) Dimethylphth 1.545 1.509 1.327 1.304 1.272 1.319 1.331 1.659 1.408  10.10
56) Acenaphthyle 2.145 2.191 1.932 1.837 1.792 1.850 1.958 2.139 1.980   7.92
57) 2,6-Dinitrot 0.277 0.305 0.298 0.292 0.290 0.294 0.293 0.259 0.288   4.94
58) 3-Nitroanili 0.366 0.367 0.357 0.349 0.342 0.347 0.333 0.230 0.336  13.23
59) Acenaphthene 1.288 1.442 1.163 1.140 1.096 1.144 1.221 1.440 1.242  10.95
60) 2,4-Dinitrop 0.069 0.114 0.147 0.186 0.183 0.176 0.128 0.044 0.131  40.52
         ----- Quadratic regression -----                Coefficient =  0.9987
              Response Ratio = -0.01593 + 0.17248 *A + 0.00322 *A^2

61) 4-Nitropheno 0.150 0.198 0.229 0.242 0.238 0.243 0.213       0.216  15.56
         ----- Quadratic regression -----                Coefficient =  0.9998
              Response Ratio = -0.00802 + 0.25336 *A + -0.00431 *A^2

62) Dibenzofuran 1.800 1.931 1.672 1.595 1.538 1.643 1.671 2.006 1.732   9.54
63) 2,4-Dinitrot 0.362 0.424 0.388 0.397 0.389 0.398 0.391 0.351 0.387   5.78
64) 2,3,4,6-Tetr 0.343 0.380 0.337 0.357 0.343 0.350 0.336 0.293 0.342   7.18
65) Diethylphtha 1.648 1.685 1.435 1.457 1.441 1.442 1.484 1.541 1.517   6.54
66) Fluorene     1.576 1.537 1.352 1.287 1.239 1.319 1.334 1.583 1.404   9.90
67) 4-Chlorophen 0.719 0.779 0.603 0.590 0.590 0.598 0.619 0.739 0.655  11.87
68) 4-Nitroanili 0.261 0.363 0.346 0.340 0.336 0.338 0.316       0.329   9.95

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.062 0.107 0.123 0.134 0.135 0.132 0.099 0.057 0.106  29.84
         ----- Quadratic regression -----                Coefficient =  0.9997
              Response Ratio = -0.00407 + 0.13074 *A + 0.00256 *A^2

71) n-Nitrosodip 0.560 0.561 0.498 0.476 0.484 0.487 0.500 0.580 0.518   8.00
72) 1,2-Diphenyl 0.958 0.978 0.813 0.788 0.779 0.818 0.832 0.931 0.862   9.30
73) 2,4,6-Tribro 0.110 0.128 0.119 0.110 0.112 0.108 0.110 0.082 0.110  11.74
74) 4-Bromopheny 0.223 0.218 0.204 0.207 0.203 0.211 0.212 0.240 0.215   5.73
75) Hexachlorobe 0.259 0.232 0.217 0.212 0.210 0.218 0.228 0.253 0.229   8.07
76) Pentachlorop 0.132 0.148 0.151 0.147 0.149 0.150 0.145 0.115 0.142   8.87
77) Phenanthrene 1.213 1.206 1.006 0.956 0.939 0.982 1.010 1.228 1.067  11.74
78) Anthracene   1.187 1.311 1.017 0.974 0.972 1.008 1.063 1.190 1.090  11.40
79) Carbazole    1.068 1.158 1.006 0.970 0.953 0.996 1.018 1.120 1.036   7.03
80) Di-n-butylph 1.491 1.588 1.408 1.410 1.377 1.447 1.394 1.501 1.452   4.89
81) Fluoranthene 1.360 1.405 1.251 1.227 1.197 1.236 1.228 1.372 1.285   6.27
82) Octadecane   0.621 0.634 0.570 0.538 0.534 0.554 0.561 0.684 0.587   9.10

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.614 1.551 1.381 1.341 1.291 1.334 1.348 1.550 1.426   8.72
85) Terphenyl-d1 0.860 0.859 0.787 0.780 0.770 0.785 0.781 0.775 0.799   4.65
86) Butylbenzylp 0.686 0.781 0.709 0.708 0.698 0.698 0.668 0.673 0.703   5.00
87) Butyl steara 0.446 0.496 0.457 0.447 0.442 0.443 0.430 0.411 0.446   5.43
88) Benzo[a]anth 1.327 1.280 1.141 1.153 1.117 1.140 1.116 1.433 1.213   9.79
89) 3,3'-Dichlor 0.424 0.485 0.429 0.425 0.410 0.426 0.399 0.439 0.430   5.93
90) Chrysene     1.213 1.249 1.077 1.037 1.021 1.048 1.060 1.337 1.130  10.51
91) bis(2-Ethylh 0.962 0.988 0.934 0.932 0.914 0.931 0.918 0.933 0.939   2.59

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

Initial Calibration Summary

Job Number: JC19759 **Sample:** EP4604-ICC4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104443.D
Project: BMSMC, Building 5 Area, PR

```
 93) Di-n-octylph 1.767 1.979 1.877 1.873 1.830 1.889 1.814 1.720 1.844   4.32
 94) Benzo[b]fluo 1.401 1.462 1.304 1.285 1.268 1.280 1.287 1.423 1.339   5.75
 95) Benzo[k]fluo 1.437 1.414 1.221 1.123 1.084 1.148 1.237 1.391 1.257  11.11
 96) Benzo[a]pyre 1.282 1.263 1.170 1.144 1.121 1.157 1.167 1.128 1.179   5.13
 97) Indeno[1,2,3 1.099 1.164 1.068 1.050 1.046 1.063 1.009 1.026 1.066   4.53
 98) Dibenz(a,h)a 0.961 1.014 0.953 0.965 0.933 0.959 0.914 0.981 0.960   3.12
 99) Dibenz[a,h]a 1.138 1.151 1.061 1.051 1.028 1.036 1.036 1.024 1.066   4.71
100) 7,12-Dimethy 0.531 0.574 0.537 0.528 0.516 0.541 0.532 0.549 0.538   3.19
101) Benzo[g,h,i] 1.145 1.256 1.130 1.109 1.084 1.108 1.106 1.204 1.143   5.12

 -1.00
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MP4600.M          Fri Apr 29 10:18:16 2016
```

Initial Calibration Verification

Job Number: JC19759 **Sample:** EP4604-ICV4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104449.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP4604\P104449.D Vial: 10
Acq On : 28 Apr 2016 9:14 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% 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	129	0.00	4.22
4	t	N-Nitrosodimethylamine	0.687	0.682	0.7	115	0.01	1.87
11	t	bis(2-Chloroethyl)ether	1.358	1.299	4.3	130	0.00	3.90
14	t	1,3-Dichlorobenzene	1.544	1.420	8.0	129	0.00	4.15
15	t	1,4-Dichlorobenzene	1.531	1.351	11.8	124	0.00	4.25
17	t	1,2-Dichlorobenzene	1.441	1.311	9.0	125	0.00	4.43
20	t	2,2'-oxybis(1-Chloropropa	0.389	0.342	12.1	115	-0.02	4.58
22		n-Nitroso-di-n-propylamin	1.008	0.874	13.3	117	-0.01	4.76
23	t	Hexachloroethane	0.595	0.540	9.2	128	0.00	4.88
24	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00	5.97
26	t	Nitrobenzene	0.437	0.399	8.7	113	0.00	4.97
28	t	Isophorone	0.739	0.738	0.1	121	-0.01	5.31
32	t	bis(2-Chloroethoxy)methan	0.450	0.422	6.2	114	0.00	5.66
36	t	1,2,4-Trichlorobenzene	0.347	0.330	4.9	119	0.00	5.89
38	t	Naphthalene	1.081	0.990	8.4	113	0.00	6.00
42	t	Hexachlorobutadiene	0.210	0.212	-1.0	122	0.00	6.21
47	I	Acenaphthene-d10	1.000	1.000	0.0	115	0.00	8.68
48	t	Hexachlorocyclopentadiene	0.416	0.380	8.7	102	0.00	7.32
52	t	2-Chloronaphthalene	1.169	1.125	3.8	119	0.00	7.81
55	t	Dimethylphthalate	1.408	1.273	9.6	111	0.00	8.35
56	t	Acenaphthylene	1.980	1.724	12.9	107	0.00	8.46
57	t	2,6-Dinitrotoluene	0.288	0.266	7.6	104	0.00	8.42
59	t	Acenaphthene	1.242	1.105	11.0	111	0.00	8.74
63	t	2,4-Dinitrotoluene	0.387	0.336	13.2	97	0.00	9.04
65	t	Diethylphthalate	1.517	1.359	10.4	108	-0.01	9.49
66	t	Fluorene	1.404	1.216	13.4	106	0.00	9.56
67	t	4-Chlorophenyl-phenylethe	0.655	0.562	14.2	108	0.00	9.61
69	I	Phenanthrene-d10	1.000	1.000	0.0	113	0.00	11.05
71	t	n-Nitrosodiphenylamine	0.518	0.470	9.3	109	0.00	9.81
72	t	1,2-Diphenylhydrazine	0.862	0.768	10.9	106	0.00	9.86
74	t	4-Bromophenyl-phenylether	0.215	0.203	5.6	108	0.00	10.38
75	t	Hexachlorobenzene	0.229	0.198	13.5	102	0.00	10.42
77	t	Phenanthrene	1.067	0.942	11.7	108	0.00	11.09
78	t	Anthracene	1.090	0.938	13.9	105	0.00	11.17
80	t	Di-n-butylphthalate	1.452	1.303	10.3	101	0.00	12.17
81	t	Fluoranthene	1.285	1.112	13.5	101	0.00	13.09
83	I	Chrysene-d12	1.000	1.000	0.0	101	0.00	15.74
84	t	Pyrene	1.426	1.310	8.1	100	0.00	13.48

Initial Calibration Verification

Job Number: JC19759 **Sample:** EP4604-ICV4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104449.D
Project: BMSMC, Building 5 Area, PR

86	t	Butylbenzylphthalate	0.703	0.663	5.7	96	0.00	14.87
88	t	Benzo[a]anthracene	1.213	1.081	10.9	96	0.00	15.73
90	t	Chrysene	1.130	0.952	15.8	92	0.00	15.79
91	t	bis(2-Ethylhexyl)phthalat	0.939	0.885	5.8	96	0.00	16.05
92	I	Perylene-d12	1.000	1.000	0.0	94	0.00	18.28
93	t	Di-n-octylphthalate	1.844	1.852	-0.4	92	0.00	17.26
94	t	Benzo[b]fluoranthene	1.339	1.197	10.6	88	0.00	17.66
95	t	Benzo[k]fluoranthene	1.257	1.164	7.4	95	-0.01	17.71
96	t	Benzo[a]pyrene	1.179	1.140	3.3	93	0.00	18.19
97	t	Indeno[1,2,3-cd]pyrene	1.066	1.025	3.8	91	0.00	19.90
99	t	Dibenz[a,h]anthracene	1.066	0.996	6.6	90	0.00	19.96
101	t	Benzo[g,h,i]perylene	1.143	1.048	8.3	89	0.00	20.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104443A.D MP4600.M Fri Apr 29 09:48:07 2016

Initial Calibration Verification

Job Number: JC19759 **Sample:** EP4604-ICV4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104450.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4604\P104450.D          Vial: 11
Acq On    : 28 Apr 2016   9:43 pm                   Operator: ashleyd
Sample    : icv4604-50                              Inst    : MSP
Misc      : op93197,ep4604                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 09:32:02 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  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	4.22
2	t	1,4-Dioxane	0.584	0.522	10.6	113	0.01	1.72
6	t	Indene	2.257	2.248	0.4	125	0.00	4.54
7	t	Cumene	3.480	3.244	6.8	116	0.00	3.32
13	t	Decane	1.677	1.607	4.2	121	0.00	4.04
18	t	Acetophenone	1.926	1.798	6.6	114	0.00	4.75
24	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00	5.97
26	t	Nitrobenzene	0.437	0.433	0.9	122	-0.23	4.75
27	t	Quinoline	0.727	0.654	10.0	110	-0.01	6.50
40	t	2,3-Dichloroaniline	0.363	0.294	19.0	99	0.00	7.50
41	t	Caprolactam	0.188	0.162	13.8	99	-0.04	6.61
45	t	1-Methylnaphthalene	0.668	0.608	9.0	111	0.00	7.21
46	t	Dimethylnaphthalene	0.591	0.527	10.8	109	0.00	8.05
47	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	8.69
53	t	Biphenyl	1.512	1.415	6.4	117	0.00	7.81
69	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00	11.05
82	t	Octadecane	0.587	0.550	6.3	108	0.00	11.06
92	I	Perylene-d12	1.000	1.000	0.0	100	0.00	18.29
100	t	7,12-Dimethylbenz(a)anthr	0.538	0.550	-2.2	102	-0.01	17.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104443A.D MP4600.M Fri Apr 29 09:48:08 2016

Initial Calibration Verification

Job Number: JC19759 **Sample:** EP4604-ICV4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104451.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4604\P104451.D          Vial: 12
Acq On    : 28 Apr 2016  10:12 pm                   Operator: ashleyd
Sample    : icv4604-50                              Inst    : MSP
Misc      : op93197,ep4604                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 10:17:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  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	4.23
3	t	Pyridine	1.341	1.445	-7.8	114	0.09	1.99
10	t	Aniline	2.085	2.168	-4.0	126	0.00	3.83
16	t	Benzyl alcohol	0.840	0.865	-3.0	116	0.00	4.41
24	I	Naphthalene-d8	1.000	1.000	0.0	120	0.00	5.97
39	t	4-Chloroaniline	0.446	0.376	15.7	107	0.00	6.10
44	t	2-Methylnaphthalene	0.599	0.519	13.4	112	0.00	7.06
47	I	Acenaphthene-d10	1.000	1.000	0.0	115	0.00	8.68
54	t	2-Nitroaniline	0.416	0.407	2.2	112	0.00	8.00
58	t	3-Nitroaniline	0.336	0.323	3.9	107	0.00	8.66
62	t	Dibenzofuran	1.732	1.635	5.6	114	0.00	9.0
68	t	4-Nitroaniline	0.329	0.295	10.3	100	0.00	9.63
69	I	Phenanthrene-d10	1.000	1.000	0.0	119	0.00	11.05
79	t	Carbazole	1.036	0.956	7.7	114	0.00	11.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104443A.D MP4600.M Fri Apr 29 10:19:54 2016

Initial Calibration Verification

Job Number: JC19759 **Sample:** EP4604-ICV4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104452.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4604\P104452.D          Vial: 13
Acq On    : 28 Apr 2016  10:40 pm                   Operator: ashleyd
Sample    : icv4604-50                              Inst    : MSP
Misc      : op93197,ep4604                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 09:32:02 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  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	122	0.00	4.22
9	t	Phenol	1.831	1.653	9.7	117	0.00	3.78
12	t	2-Chlorophenol	1.392	1.285	7.7	118	0.00	3.96
19	t	2-Methylphenol	1.174	1.120	4.6	120	0.00	4.54
21	t	3&4-Methylphenol	1.259	1.154	8.3	117	0.00	4.75
24	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00	5.97
29	t	2-Nitrophenol	0.189	0.187	1.1	109	0.00	5.42
30	t	2,4-Dimethylphenol	0.374	0.380	-1.6	120	0.00	5.51
31	t	Benzoic acid	0.292	0.275	5.8	99	0.01	5.69
33	t	2,4-Dichlorophenol	0.295	0.287	2.7	112	0.00	5.76
34		2,6-Dichlorophenol	0.287	0.276	3.8	113	0.00	6.10
43	t	4-Chloro-3-methylphenol	0.335	0.313	6.6	106	-0.02	6.87
47	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00	8.68
49	t	2,4,6-Trichlorophenol	0.393	0.384	2.3	114	0.00	7.51
50	t	2,4,5-Trichlorophenol	0.431	0.380	11.8	101	-0.01	7.55
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	41.843	16.3	88	-0.01	8.82
61	t	4-Nitrophenol	50.000	46.756	6.5	106	0.00	8.96
		----------	AvgRF	CCRF	% Dev	----------		
64		2,3,4,6-Tetrachlorophenol	0.342	0.320	6.4	105	0.00	9.22
69	I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00	11.05
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	46.920	6.2	103	-0.01	9.67
		----------	AvgRF	CCRF	% Dev	----------		
76	t	Pentachlorophenol	0.142	0.148	-4.2	110	0.00	10.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104443A.D MP4600.M Fri Apr 29 09:48:10 2016

Initial Calibration Verification

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4604-ICV4604
Lab FileID: P104453.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4604\P104453.D          Vial: 14
Acq On    : 28 Apr 2016  11:09 pm                   Operator: ashleyd
Sample    : icv4604-50                              Inst    : MSP
Misc      : op93197,ep4604                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 09:32:02 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  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	107	-0.01	15.74
89	t	3,3'-Dichlorobenzidine	0.430	0.395	8.1	99	0.00	15.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104443A.D MP4600.M Fri Apr 29 09:48:11 2016

Initial Calibration Verification

Job Number: JC19759 **Sample:** EP4604-ICV4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104454.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4604\P104454.D          Vial: 15
Acq On    : 28 Apr 2016  11:38 pm                   Operator: ashleyd
Sample    : icv4604-50                              Inst    : MSP
Misc      : op93197,ep4604                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 09:32:02 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  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	4.22
5	S	2-Fluorophenol	1.382	1.202	13.0	113	0.00	2.81
8	S	Phenol-d5	1.814	1.468	19.1	110	0.00	3.76
24	I	Naphthalene-d8	1.000	1.000	0.0	133	0.00	5.97
25	S	Nitrobenzene-d5	0.436	0.388	11.0	124	0.00	4.95
47	I	Acenaphthene-d10	1.000	1.000	0.0	127	0.00	8.69
51	S	2-Fluorobiphenyl	1.377	1.215	11.8	121	0.00	7.66
69	I	Phenanthrene-d10	1.000	1.000	0.0	126	0.00	11.05
73	S	2,4,6-Tribromophenol	0.110	0.089	19.1	104	0.00	9.94
83	I	Chrysene-d12	1.000	1.000	0.0	119	-0.01	15.74
85	S	Terphenyl-d14	0.799	0.699	12.5	106	0.00	13.87

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104443A.D MP4600.M Fri Apr 29 09:48:12 2016

Continuing Calibration Summary

Job Number: JC19759 **Sample:** EP4614-CC4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104677.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4614\P104677.D          Vial: 2
Acq On    :  9 May 2016  11:32 am                   Operator: linseyk
Sample    : cc4604-25                               Inst    : MSP
Misc      : op93704,ep4614                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 09 12:42:29 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  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	113	-0.01	4.21
2	t	1,4-Dioxane	0.584	0.505	13.5	107	0.00	1.70
3	t	Pyridine	1.341	1.379	-2.8	107	0.00	1.89
4	t	N-Nitrosodimethylamine	0.687	0.860	-25.2#	132	-0.03	1.86
5	S	2-Fluorophenol	1.382	1.440	-4.2	117	0.00	2.81
6	t	Indene	2.257	2.290	-1.5	115	-0.02	4.53
7	t	Cumene	3.480	3.596	-3.3	117	-0.02	3.31
8	S	Phenol-d5	1.814	1.797	0.9	110	0.00	3.77
9	t	Phenol	1.831	1.849	-1.0	114	0.00	3.79
10	t	Aniline	2.085	2.191	-5.1	119	-0.01	3.82
11	t	bis(2-Chloroethyl)ether	1.358	1.226	9.7	106	-0.01	3.90
12	t	2-Chlorophenol	1.392	1.482	-6.5	124	-0.01	3.95
13	t	Decane	1.677	1.569	6.4	108	-0.02	4.02
14	t	1,3-Dichlorobenzene	1.544	1.555	-0.7	115	-0.01	4.14
15	t	1,4-Dichlorobenzene	1.531	1.499	2.1	115	-0.01	4.23
16	t	Benzyl alcohol	0.840	0.867	-3.2	111	0.00	4.40
17	t	1,2-Dichlorobenzene	1.441	1.399	2.9	113	-0.01	4.42
18	t	Acetophenone	1.926	2.016	-4.7	119	-0.02	4.74
19	t	2-Methylphenol	1.174	1.214	-3.4	113	0.00	4.55
20	t	2,2'-oxybis(1-Chloropropa	0.389	0.434	-11.6	122	-0.02	4.58
21	t	3&4-Methylphenol	1.259	1.320	-4.8	116	0.00	4.76
22		n-Nitroso-di-n-propylamin	1.008	1.044	-3.6	120	-0.02	4.75
23	t	Hexachloroethane	0.595	0.608	-2.2	121	-0.01	4.87
24	I	Naphthalene-d8	1.000	1.000	0.0	113	-0.02	5.96
25	S	Nitrobenzene-d5	0.436	0.457	-4.8	121	-0.01	4.94
26	t	Nitrobenzene	0.437	0.457	-4.6	122	-0.01	4.97
27	t	Quinoline	0.727	0.735	-1.1	119	-0.02	6.49
28	t	Isophorone	0.739	0.772	-4.5	120	-0.02	5.31
29	t	2-Nitrophenol	0.189	0.216	-14.3	124	-0.02	5.41
30	t	2,4-Dimethylphenol	0.374	0.410	-9.6	127	0.00	5.51
31	t	Benzoic acid	0.292	0.300	-2.7	111	0.00	5.67
32	t	bis(2-Chloroethoxy)methan	0.450	0.435	3.3	112	-0.02	5.65
33	t	2,4-Dichlorophenol	0.295	0.325	-10.2	123	0.00	5.77
34		2,6-Dichlorophenol	0.287	0.314	-9.4	124	-0.01	6.10
35		1,3,5-Trichlorobenzene	0.359	0.370	-3.1	118	-0.01	5.43
36	t	1,2,4-Trichlorobenzene	0.347	0.364	-4.9	120	-0.02	5.88
37		1,2,3-Trichlorobenzene	0.329	0.338	-2.7	119	-0.02	6.21
38	t	Naphthalene	1.081	1.109	-2.6	119	-0.02	5.99
39	t	4-Chloroaniline	0.446	0.471	-5.6	122	-0.01	6.10
40	t	2,3-Dichloroaniline	0.363	0.378	-4.1	119	-0.01	7.49
41	t	Caprolactam	0.188	0.194	-3.2	118	-0.02	6.62

Continuing Calibration Summary

Job Number: JC19759 **Sample:** EP4614-CC4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104677.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.210	0.252	-20.0	138	-0.02	6.20
43	t	4-Chloro-3-methylphenol	0.335	0.377	-12.5	124	0.00	6.88
44	t	2-Methylnaphthalene	0.599	0.646	-7.8	128	-0.01	7.05
45	t	1-Methylnaphthalene	0.668	0.706	-5.7	123	-0.02	7.19
46	t	Dimethylnaphthalene	0.591	0.605	-2.4	120	-0.02	8.03
47	I	Acenaphthene-d10	1.000	1.000	0.0	115	-0.02	8.67
48	t	Hexachlorocyclopentadiene	0.416	0.491	-18.0	133	-0.02	7.30
49	t	2,4,6-Trichlorophenol	0.393	0.446	-13.5	131	-0.01	7.51
50	t	2,4,5-Trichlorophenol	0.431	0.472	-9.5	125	0.00	7.56
51	S	2-Fluorobiphenyl	1.377	1.380	-0.2	121	-0.02	7.65
52	t	2-Chloronaphthalene	1.169	1.191	-1.9	123	-0.01	7.80
53	t	Biphenyl	1.512	1.535	-1.5	124	-0.02	7.79
54	t	2-Nitroaniline	0.416	0.469	-12.7	132	-0.01	8.00
55	t	Dimethylphthalate	1.408	1.466	-4.1	127	-0.02	8.33
56	t	Acenaphthylene	1.980	2.044	-3.2	122	-0.02	8.44
57	t	2,6-Dinitrotoluene	0.288	0.326	-13.2	126	-0.01	8.41
58	t	3-Nitroaniline	0.336	0.371	-10.4	120	-0.01	8.65
59	t	Acenaphthene	1.242	1.267	-2.0	125	-0.01	8.73
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	52.868	-5.7	136	-0.01	8.82
61	t	4-Nitrophenol	25.000	34.356	-37.4#	166	-0.02	8.99
		----------	AvgRF	CCRF	% Dev	----------		
62	t	Dibenzofuran	1.732	1.764	-1.8	121	-0.02	9.01
63	t	2,4-Dinitrotoluene	0.387	0.439	-13.4	130	0.00	9.04
64		2,3,4,6-Tetrachlorophenol	0.342	0.380	-11.1	130	0.00	9.22
65	t	Diethylphthalate	1.517	1.677	-10.5	134	-0.02	9.48
66	t	Fluorene	1.404	1.469	-4.6	125	-0.02	9.55
67	t	4-Chlorophenyl-phenylethe	0.655	0.685	-4.6	131	-0.02	9.59
68	t	4-Nitroaniline	0.329	0.350	-6.4	116	-0.02	9.62
69	I	Phenanthrene-d10	1.000	1.000	0.0	116	-0.02	11.04
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	27.220	-8.9	130	-0.01	9.67
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.518	0.512	1.2	119	-0.02	9.79
72	t	1,2-Diphenylhydrazine	0.862	0.881	-2.2	126	-0.02	9.84
73	S	2,4,6-Tribromophenol	0.110	0.127	-15.5	124	-0.01	9.94
74	t	4-Bromophenyl-phenylether	0.215	0.234	-8.8	133	-0.02	10.37
75	t	Hexachlorobenzene	0.229	0.240	-4.8	128	-0.01	10.42
76	t	Pentachlorophenol	0.142	0.152	-7.0	117	0.00	10.76
77	t	Phenanthrene	1.067	1.092	-2.3	126	-0.02	11.07
78	t	Anthracene	1.090	1.111	-1.9	127	-0.02	11.15
79	t	Carbazole	1.036	1.084	-4.6	125	-0.01	11.45
80	t	Di-n-butylphthalate	1.452	1.620	-11.6	134	-0.03	12.15
81	t	Fluoranthene	1.285	1.354	-5.4	126	-0.02	13.08
82	t	Octadecane	0.587	0.567	3.4	115	-0.03	11.04
83	I	Chrysene-d12	1.000	1.000	0.0	118	-0.02	15.73
84	t	Pyrene	1.426	1.438	-0.8	123	-0.02	13.47
85	S	Terphenyl-d14	0.799	0.848	-6.1	127	-0.02	13.85
86	t	Butylbenzylphthalate	0.703	0.770	-9.5	128	-0.02	14.85
87		Butyl stearate	0.446	0.414	7.2	107	-0.03	15.08
88	t	Benzo[a]anthracene	1.213	1.223	-0.8	126	-0.02	15.71
89	t	3,3'-Dichlorobenzidine	0.430	0.448	-4.2	123	-0.02	15.75
90	t	Chrysene	1.130	1.123	0.6	123	-0.02	15.78

Continuing Calibration Summary

Job Number: JC19759 **Sample:** EP4614-CC4604
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104677.D
Project: BMSMC, Building 5 Area, PR

91	t	bis(2-Ethylhexyl)phthalat	0.939	1.018	-8.4	129	-0.03	16.02
92	I	Perylene-d12	1.000	1.000	0.0	105	-0.01	18.28
93	t	Di-n-octylphthalate	1.844	2.226	-20.7#	125	-0.03	17.23
94	t	Benzo[b]fluoranthene	1.339	1.473	-10.0	119	-0.02	17.64
95	t	Benzo[k]fluoranthene	1.257	1.324	-5.3	114	-0.02	17.70
96	t	Benzo[a]pyrene	1.179	1.284	-8.9	116	-0.02	18.18
97	t	Indeno[1,2,3-cd]pyrene	1.066	1.035	2.9	102	-0.01	19.90
98	t	Dibenz(a,h)acridine	0.960	0.945	1.6	105	-0.02	19.59
99	t	Dibenz[a,h]anthracene	1.066	1.021	4.2	102	-0.02	19.95
100	t	7,12-Dimethylbenz(a)anthr	0.538	0.618	-14.9	121	-0.02	17.66
101	t	Benzo[g,h,i]perylene	1.143	1.090	4.6	102	-0.01	20.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104444A.D MP4600.M Mon May 09 13:50:56 2016

6.7.33

6

Continuing Calibration Summary

Job Number: JC19759 **Sample:** EP4614-CC4601
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P104678.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4614\P104678.D          Vial: 3
Acq On    :  9 May 2016  12:01 pm                   Operator: linseyk
Sample    : cc4601-25                               Inst    : MSP
Misc      : op93704,ep4614                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 09 12:42:29 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  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	65	-0.03	4.21
103		Benzaldehyde	1.033	0.948	8.2	60	-0.03	3.70
104	I	Phenanthrene-d10b	1.000	1.000	0.0	77	-0.03	11.04
105		Atrazine	0.176	0.198	-12.5	83	-0.04	10.70
106	I	Chrysene-d12b	1.000	1.000	0.0	79	-0.04	15.72
107		Benzidine	0.598	0.651	-8.9	73	-0.04	13.40
108	I	Naphthalene-d8b	1.000	1.000	0.0	66	-0.03	5.96
109		Hydroquinone	0.320	0.328	-2.5	65	0.00	6.67
110	I	Acenaphthene-d10b	1.000	1.000	0.0	71	-0.04	8.67
111		1,2,4,5-Tetrachlorobenzen	0.545	0.570	-4.6	75	-0.03	7.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P104444A.D MP4600.M Mon May 09 13:50:57 2016

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25727.D
Acq On : 7 May 2016 3:27 am
Operator : seanb1
Sample : jc19759-1
Misc : op93693,e6p1201,950
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 07 10:30:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration

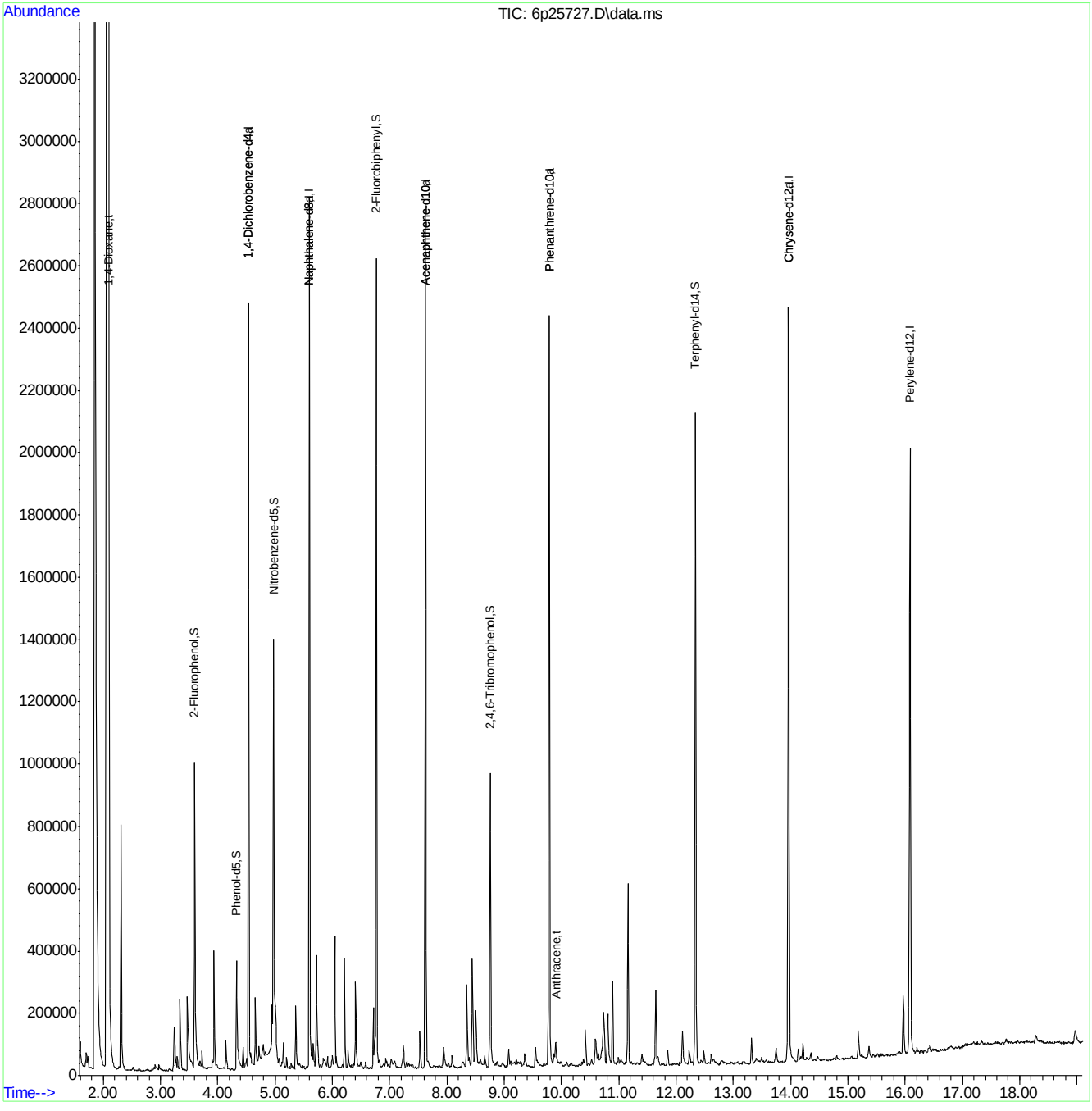
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.534	152	262272	40.00	ppm	-0.02
24) Naphthalene-d8	5.598	136	1083738	40.00	ppm	-0.05
47) Acenaphthene-d10	7.625	164	655688	40.00	ppm	-0.07
69) Phenanthrene-d10	9.786	188	1076390	40.00	ppm	-0.09
83) Chrysene-d12	13.964	240	1012828	40.00	ppm	-0.04
92) Perylene-d12	16.087	264	898745	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.534	152	262272	40.00	ppm	-0.05
104) Acenaphthene-d10a	7.625	164	655688	40.00	ppm	-0.04
106) Phenanthrene-d10a	9.786	188	1076390	40.00	ppm	-0.08
108) Chrysene-d12a	13.964	240	1012828	40.00	ppm	-0.07
110) Naphthalene-d8a	5.598	136	1083738	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.592	112	165105	17.75	ppm	0.00
Spiked Amount 50.000			Recovery = 35.50%			
8) Phenol-d5	4.325	99	147615	12.07	ppm	0.00
Spiked Amount 50.000			Recovery = 24.14%			
25) Nitrobenzene-d5	4.972	82	394658	33.25	ppm	-0.04
Spiked Amount 50.000			Recovery = 66.50%			
51) 2-Fluorobiphenyl	6.764	172	748797	35.55	ppm	-0.08
Spiked Amount 50.000			Recovery = 71.10%			
73) 2,4,6-Tribromophenol	8.754	330	104218	41.48	ppm	-0.09
Spiked Amount 50.000			Recovery = 82.96%			
85) Terphenyl-d14	12.338	244	709404	37.27	ppm	-0.05
Spiked Amount 50.000			Recovery = 74.54%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.095	88	14087664	2994.33	ppm	84
78) Anthracene	9.899	178	37938	1.23	ppm	96

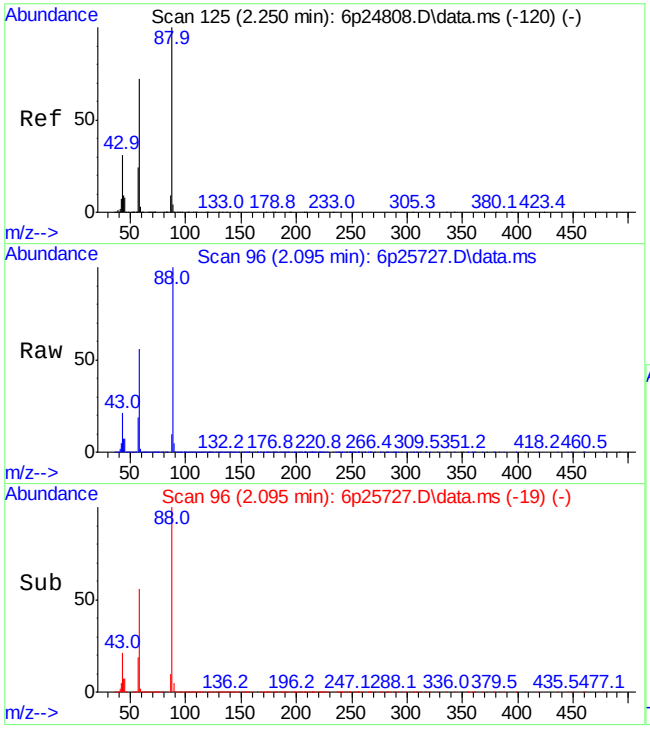
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25727.D
Acq On : 7 May 2016 3:27 am
Operator : seanb1
Sample : jc19759-1
Misc : op93693,e6p1201,950
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 07 10:30:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration

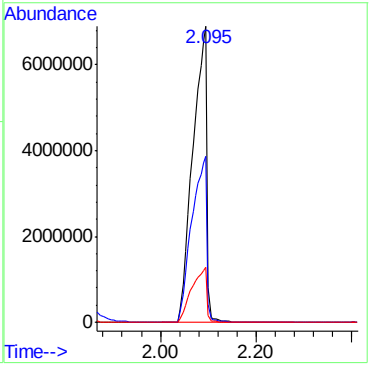


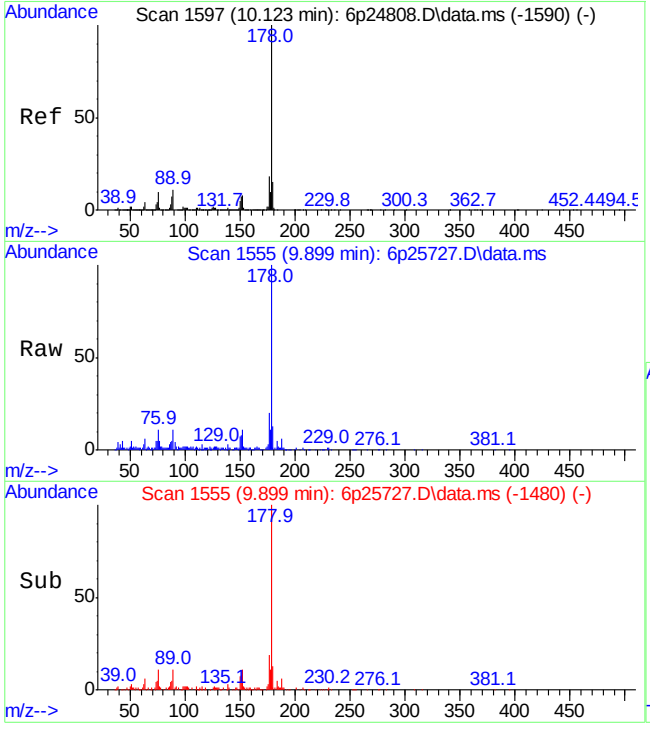


#2
1,4-Dioxane
Concen: 2994.33 ppm
RT: 2.095 min Scan# 96
Delta R.T. -0.088 min
Lab File: 6p25727.D
Acq: 7 May 2016 3:27 am

Tgt Ion: 88 Resp:14087664

Ion	Ratio	Lower	Upper
88	100		
58	56.0	41.3	101.3
57	18.6	0.0	52.6

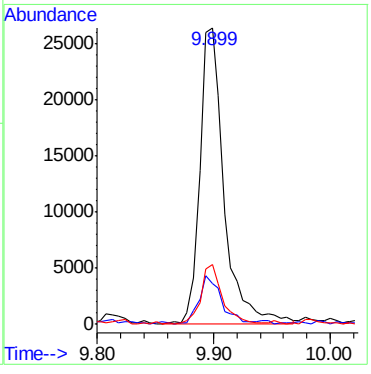




#78
Anthracene
Concen: 1.23 ppm
RT: 9.899 min Scan# 1555
Delta R.T. -0.097 min
Lab File: 6p25727.D
Acq: 7 May 2016 3:27 am

Tgt Ion:178 Resp: 37938

Ion	Ratio	Lower	Upper
178	100		
179	12.8	0.0	45.5
176	19.9	0.0	48.7



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104683.D Vial: 8
Acq On : 9 May 2016 2:28 pm Operator: linseyk
Sample : jc19759-1 Inst : MSP
Misc : op93693,ep4614,950,,,1,50 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 14:50:13 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.21	152	27576	40.00	ppm	-0.02
24) Naphthalene-d8	5.95	136	102648	40.00	ppm	-0.02
47) Acenaphthene-d10	8.67	164	60135	40.00	ppm	-0.02
69) Phenanthrene-d10	11.03	188	107363	40.00	ppm	-0.02
83) Chrysene-d12	15.72	240	110754	40.00	ppm	-0.03
92) Perylene-d12	18.27	264	91339	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.21	152	27576	40.00	ppm	-0.03
104) Phenanthrene-d10b	11.03	188	107363	40.00	ppm	-0.04
106) Chrysene-d12b	15.72	240	110754	40.00	ppm	-0.04
108) Naphthalene-d8b	5.95	136	102648	40.00	ppm	-0.03
110) Acenaphthene-d10b	8.67	164	60135	40.00	ppm	-0.04

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	0d	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

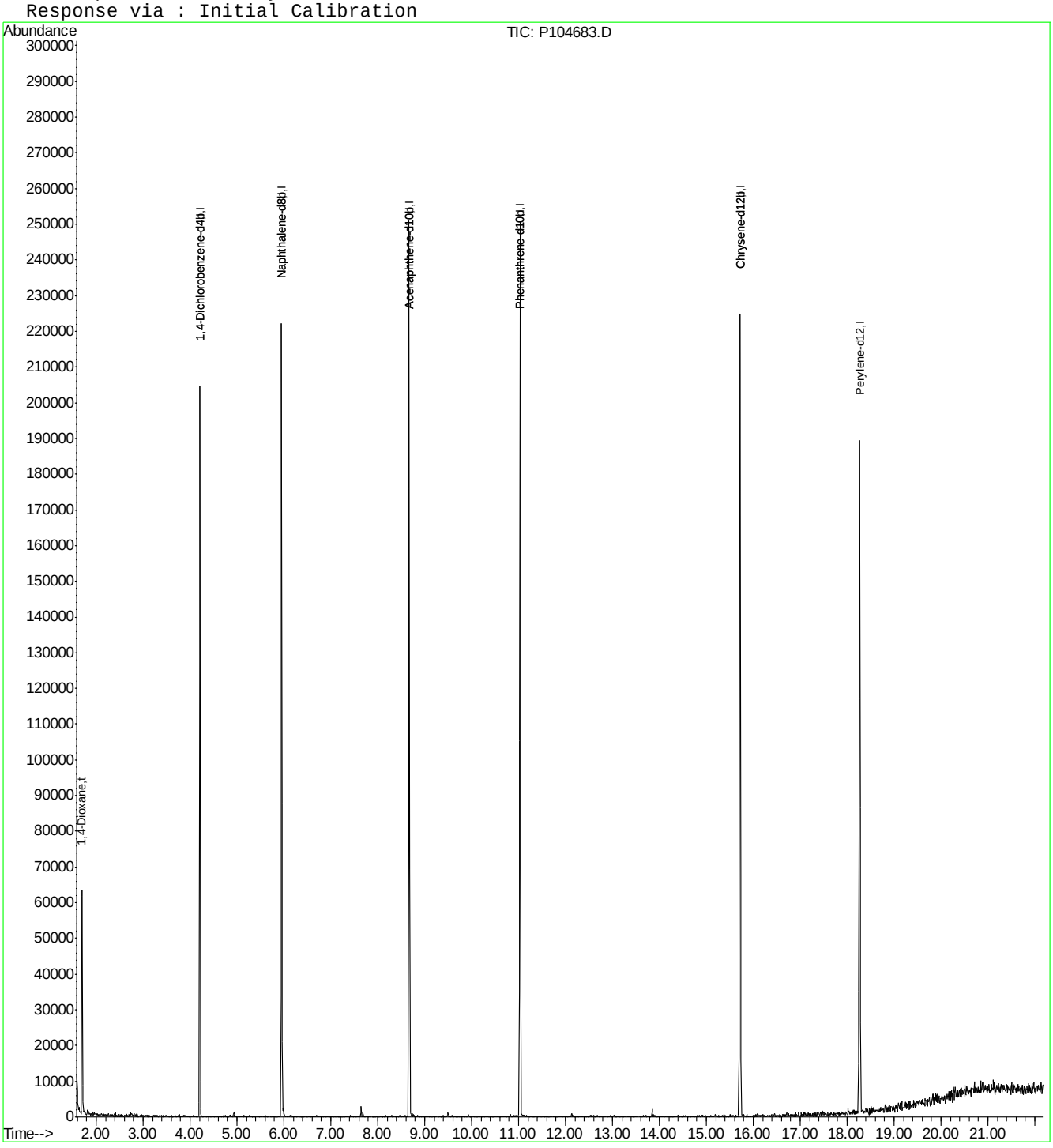
						Qvalue
2) 1,4-Dioxane	1.70	88	19683	48.90	ppm	74

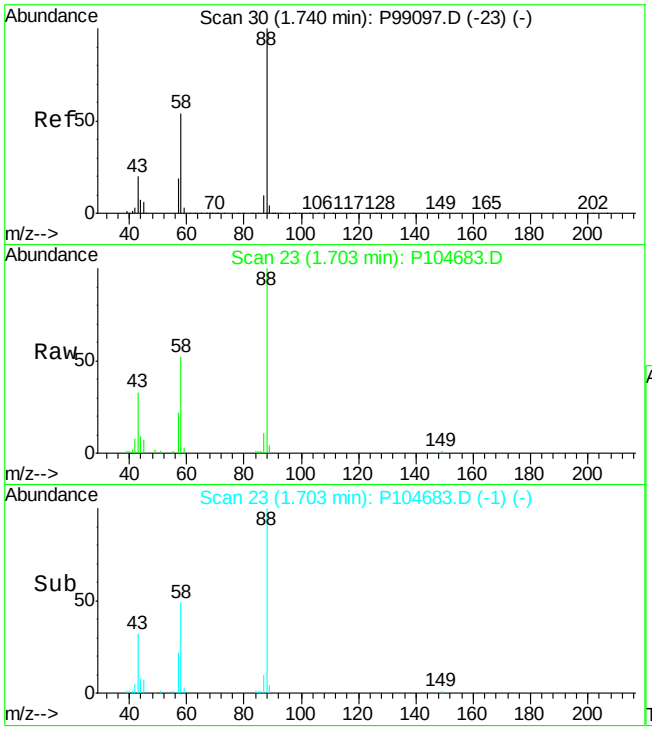
(#) = qualifier out of range (m) = manual integration (+) = signals summed
P104683.D MP4600.M Mon May 09 15:01:11 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104683.D Vial: 8
Acq On : 9 May 2016 2:28 pm Operator: linseyk
Sample : jc19759-1 Inst : MSP
Misc : op93693,ep4614,950,,,1,50 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 15:01 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration

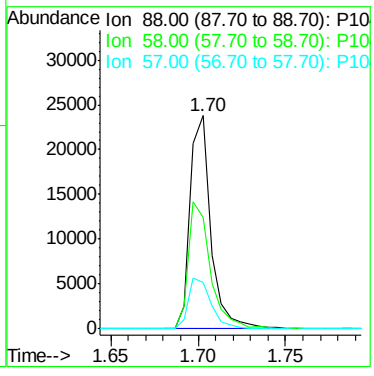




#2
1,4-Dioxane
Concen: 48.90 ppm
RT: 1.70 min Scan# 23
Delta R.T. -0.01 min
Lab File: P104683.D
Acq: 9 May 2016 2:28 pm

Tgt Ion: 88 Resp: 19683

Ion	Ratio	Lower	Upper
88	100		
58	52.2	48.2	108.2
57	21.5	0.0	59.5



7.1.2

7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25728.D
Acq On : 7 May 2016 3:54 am
Operator : seanb1
Sample : jc19759-2
Misc : op93693,e6p1201,800
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 07 10:32:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration

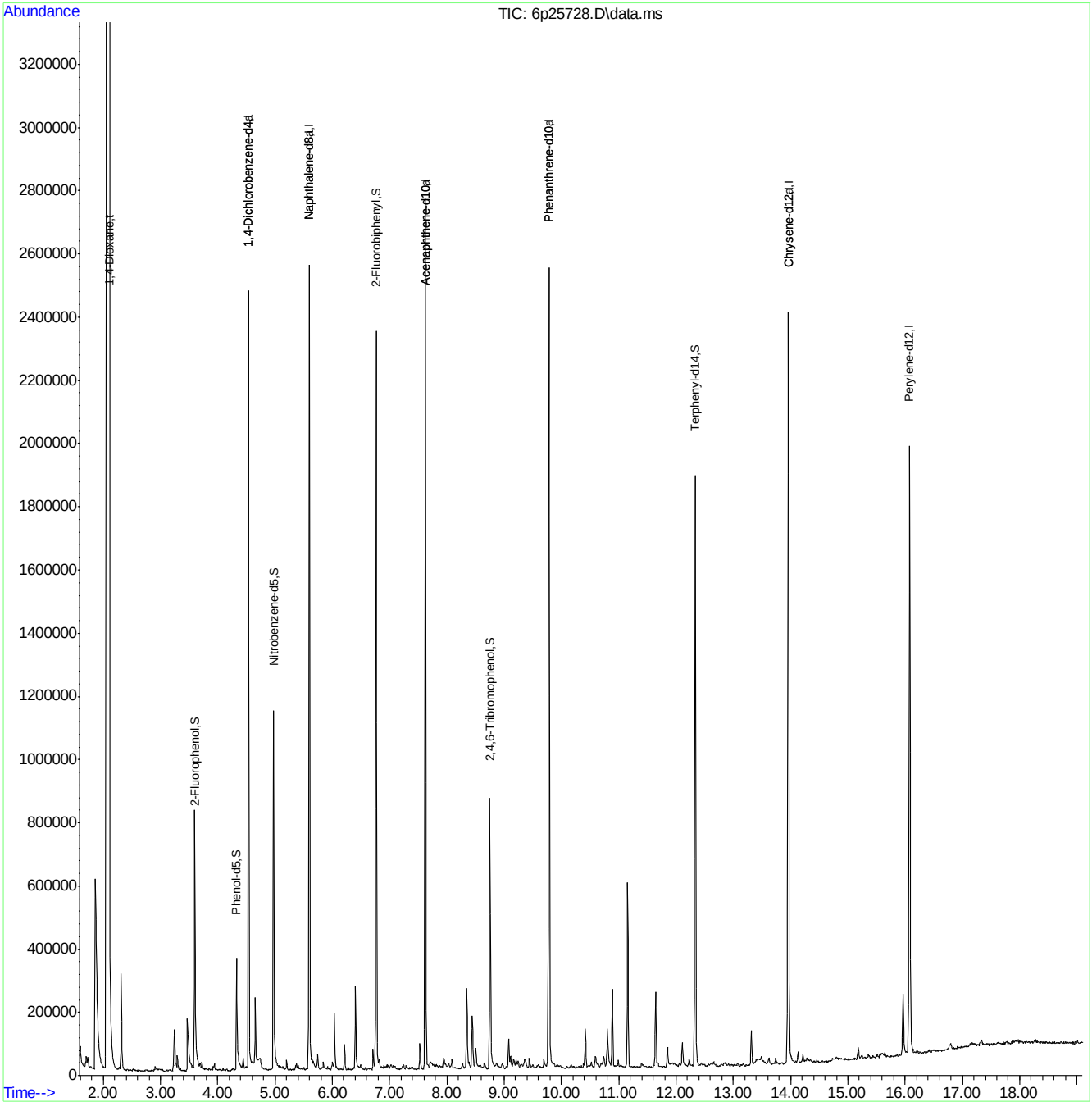
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.534	152	262682	40.00	ppm	-0.02
24) Naphthalene-d8	5.598	136	1083894	40.00	ppm	-0.05
47) Acenaphthene-d10	7.620	164	652654	40.00	ppm	-0.08
69) Phenanthrene-d10	9.781	188	1082993	40.00	ppm	-0.10
83) Chrysene-d12	13.958	240	996650	40.00	ppm	-0.05
92) Perylene-d12	16.076	264	875413	40.00	ppm	-0.05
102) 1,4-Dichlorobenzene-d4a	4.534	152	262682	40.00	ppm	-0.05
104) Acenaphthene-d10a	7.620	164	652654	40.00	ppm	-0.05
106) Phenanthrene-d10a	9.781	188	1082993	40.00	ppm	-0.09
108) Chrysene-d12a	13.958	240	996650	40.00	ppm	-0.07
110) Naphthalene-d8a	5.598	136	1083894	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.598	112	153261	16.45	ppm	0.00
Spiked Amount 50.000			Recovery = 32.90%			
8) Phenol-d5	4.325	99	141005	11.51	ppm	0.00
Spiked Amount 50.000			Recovery = 23.02%			
25) Nitrobenzene-d5	4.973	82	390263	32.88	ppm	-0.04
Spiked Amount 50.000			Recovery = 65.76%			
51) 2-Fluorobiphenyl	6.764	172	718795	34.29	ppm	-0.08
Spiked Amount 50.000			Recovery = 68.58%			
73) 2,4,6-Tribromophenol	8.754	330	101305	40.08	ppm	-0.09
Spiked Amount 50.000			Recovery = 80.16%			
85) Terphenyl-d14	12.332	244	651991	34.81	ppm	-0.06
Spiked Amount 50.000			Recovery = 69.62%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.106	88	20858638	4426.58	ppm	83

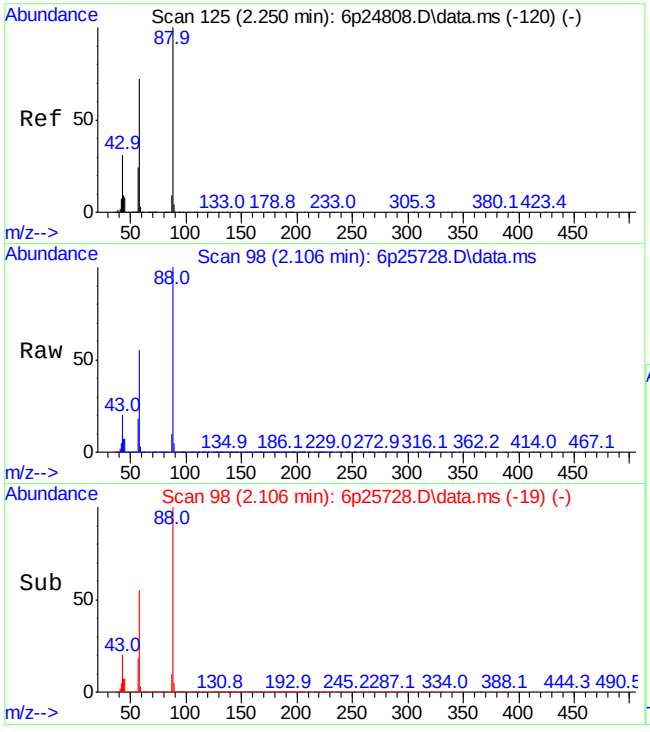
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25728.D
Acq On : 7 May 2016 3:54 am
Operator : seanb1
Sample : jc19759-2
Misc : op93693,e6p1201,800
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 07 10:32:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration

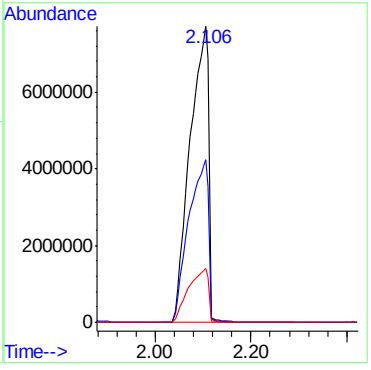




#2
1,4-Dioxane
Concen: 4426.58 ppm
RT: 2.106 min Scan# 98
Delta R.T. -0.077 min
Lab File: 6p25728.D
Acq: 7 May 2016 3:54 am

Tgt Ion: 88 Resp:20858638

Ion	Ratio	Lower	Upper
88	100		
58	55.0	41.3	101.3
57	18.2	0.0	52.6



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104681.D Vial: 6
Acq On : 9 May 2016 1:29 pm Operator: linseyk
Sample : jc19759-2 Inst : MSP
Misc : op93693,ep4614,800,,,1,100 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 13:52:09 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.21	152	28022	40.00	ppm	-0.02
24) Naphthalene-d8	5.95	136	102225	40.00	ppm	-0.02
47) Acenaphthene-d10	8.67	164	59573	40.00	ppm	-0.02
69) Phenanthrene-d10	11.03	188	111227	40.00	ppm	-0.02
83) Chrysene-d12	15.72	240	107893	40.00	ppm	-0.03
92) Perylene-d12	18.27	264	91646	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.21	152	28022	40.00	ppm	-0.03
104) Phenanthrene-d10b	11.03	188	111227	40.00	ppm	-0.04
106) Chrysene-d12b	15.72	240	107893	40.00	ppm	-0.04
108) Naphthalene-d8b	5.95	136	102225	40.00	ppm	-0.03
110) Acenaphthene-d10b	8.67	164	59573	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	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

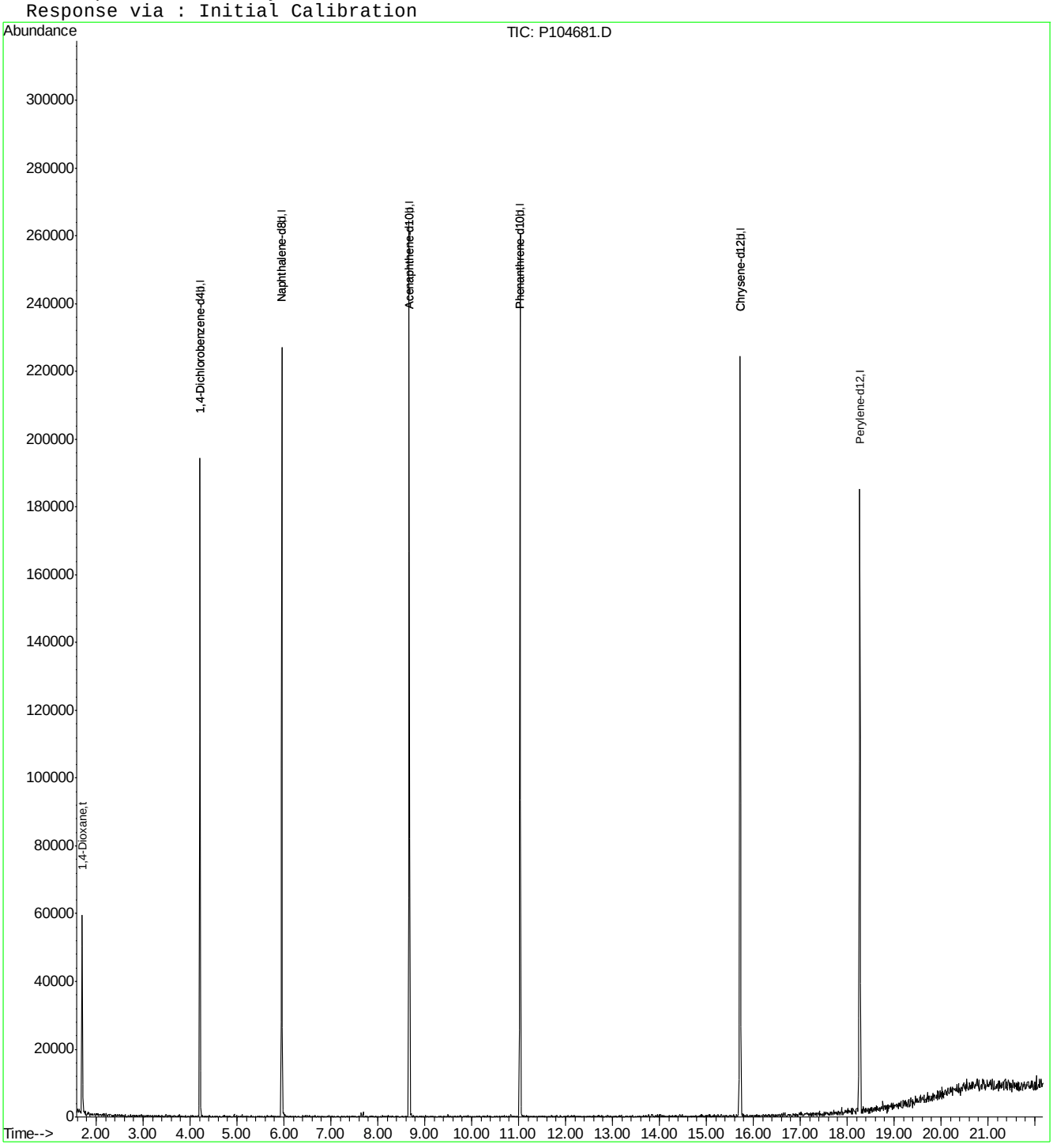
						Qvalue
2) 1,4-Dioxane	1.70	88	17556	42.92	ppm	90

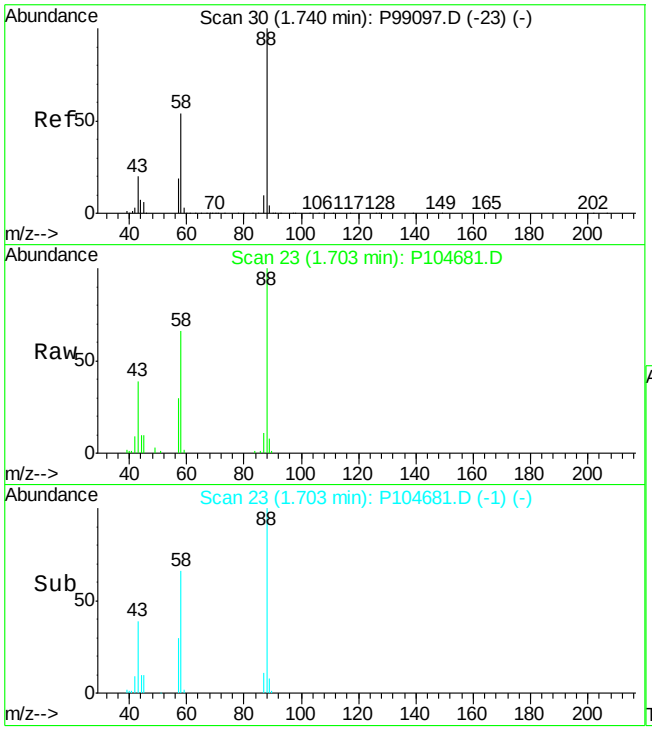
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104681.D Vial: 6
Acq On : 9 May 2016 1:29 pm Operator: linseyk
Sample : jc19759-2 Inst : MSP
Misc : op93693,ep4614,800,,,1,100 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 13:52 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration

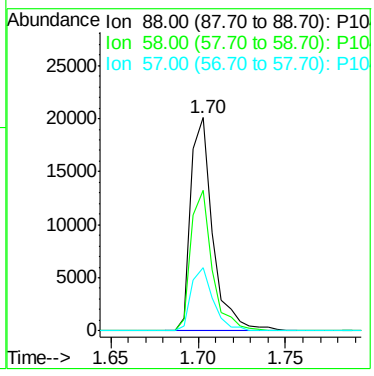




#2
1,4-Dioxane
Concen: 42.92 ppm
RT: 1.70 min Scan# 23
Delta R.T. -0.01 min
Lab File: P104681.D
Acq: 9 May 2016 1:29 pm

Tgt Ion: 88 Resp: 17556

Ion	Ratio	Lower	Upper
88	100		
58	65.8	48.2	108.2
57	29.6	0.0	59.5



7.1.4

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104680.D Vial: 5
Acq On : 9 May 2016 1:00 pm Operator: linseyk
Sample : jc19759-3 Inst : MSP
Misc : op93693,ep4614,990 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 15:30:55 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 15:30:51 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

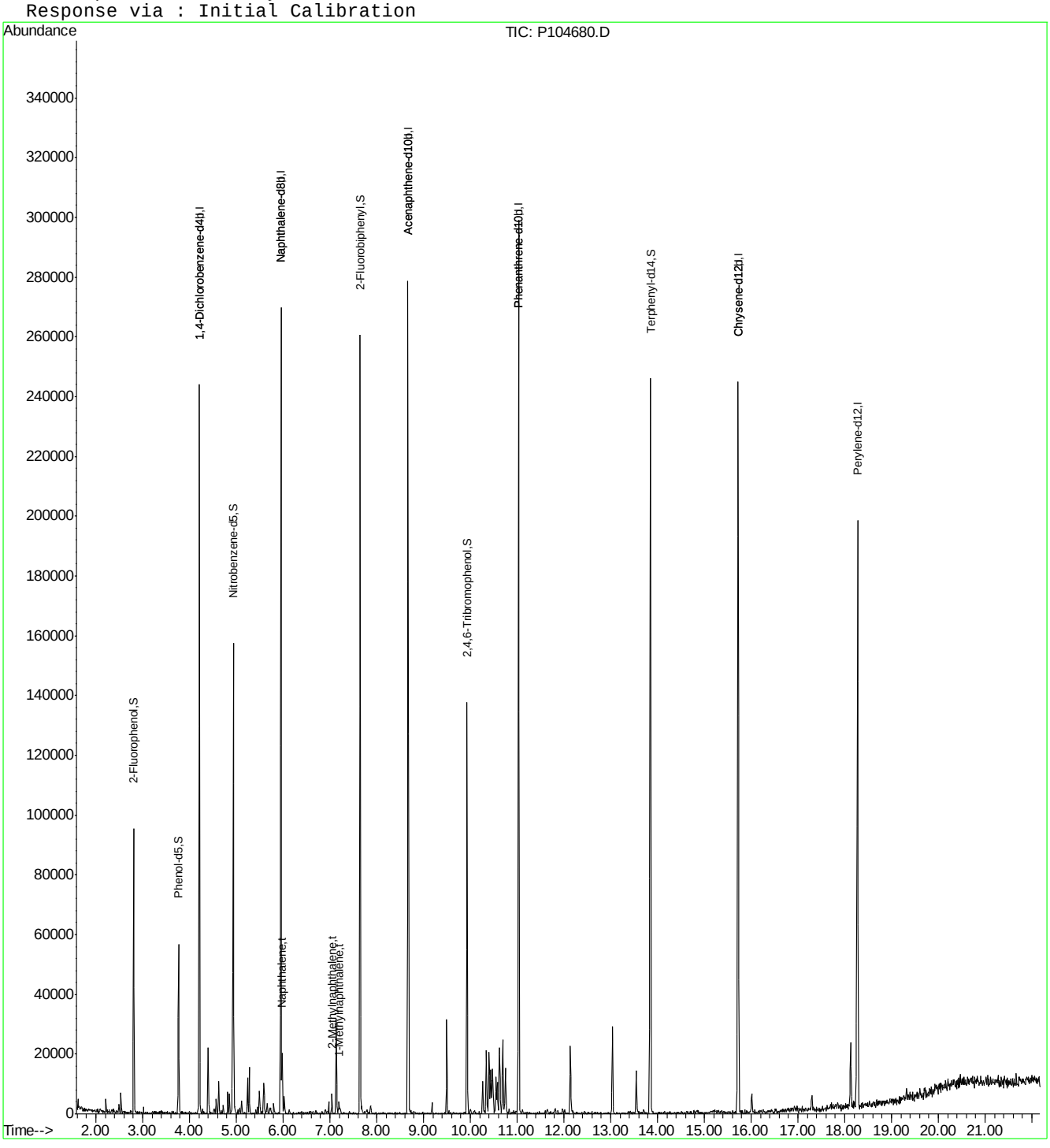
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.21	152	33953	40.00	ppm	-0.02
24) Naphthalene-d8	5.96	136	121741	40.00	ppm	-0.02
47) Acenaphthene-d10	8.67	164	71588	40.00	ppm	-0.02
69) Phenanthrene-d10	11.03	188	123160	40.00	ppm	-0.02
83) Chrysene-d12	15.72	240	119440	40.00	ppm	-0.03
92) Perylene-d12	18.27	264	99259	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.21	152	33953	40.00	ppm	-0.03
104) Phenanthrene-d10b	11.03	188	123160	40.00	ppm	-0.04
106) Chrysene-d12b	15.72	240	119440	40.00	ppm	-0.04
108) Naphthalene-d8b	5.96	136	121741	40.00	ppm	-0.03
110) Acenaphthene-d10b	8.67	164	71588	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	2.81	112	21832	18.61	ppm	0.00
Spiked Amount 50.000			Recovery = 37.22%			
8) Phenol-d5	3.76	99	16713	10.86	ppm	0.00
Spiked Amount 50.000			Recovery = 21.72%			
25) Nitrobenzene-d5	4.93	82	47760	35.98	ppm	-0.02
Spiked Amount 50.000			Recovery = 71.96%			
51) 2-Fluorobiphenyl	7.65	172	86595	35.14	ppm	-0.02
Spiked Amount 50.000			Recovery = 70.28%			
73) 2,4,6-Tribromophenol	9.93	330	14521	42.93	ppm	-0.02
Spiked Amount 50.000			Recovery = 85.86%			
85) Terphenyl-d14	13.85	244	90394	37.87	ppm	-0.02
Spiked Amount 50.000			Recovery = 75.74%			
Target Compounds						Qvalue
38) Naphthalene	5.98	128	7583	2.31	ppm	91
44) 2-Methylnaphthalene	7.04	141	2058	1.13	ppm	100
45) 1-Methylnaphthalene	7.19	142	1072	0.53	ppm	80

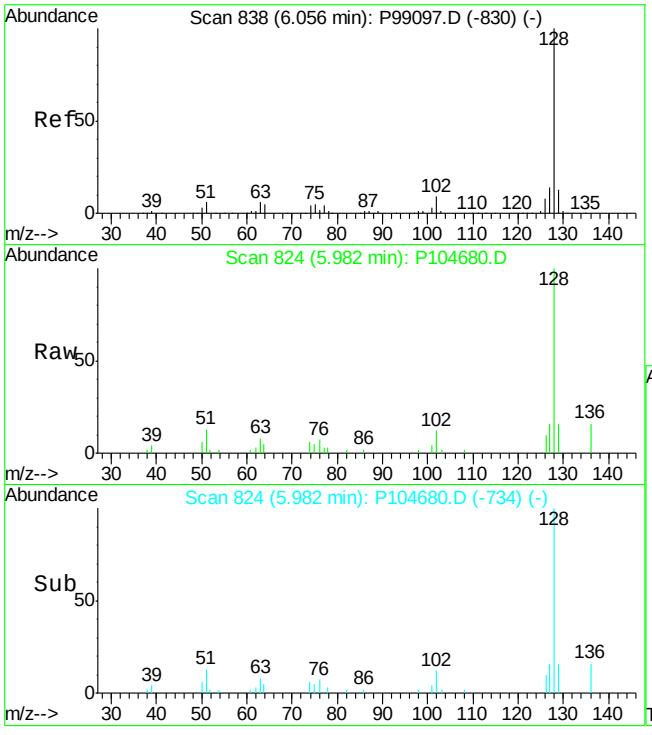
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104680.D Vial: 5
Acq On : 9 May 2016 1:00 pm Operator: linseyk
Sample : jc19759-3 Inst : MSP
Misc : op93693,ep4614,990 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 15:35 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 15:30:51 2016
Response via : Initial Calibration

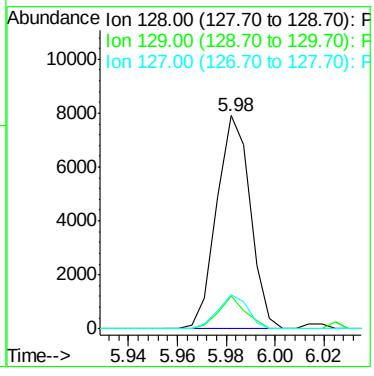


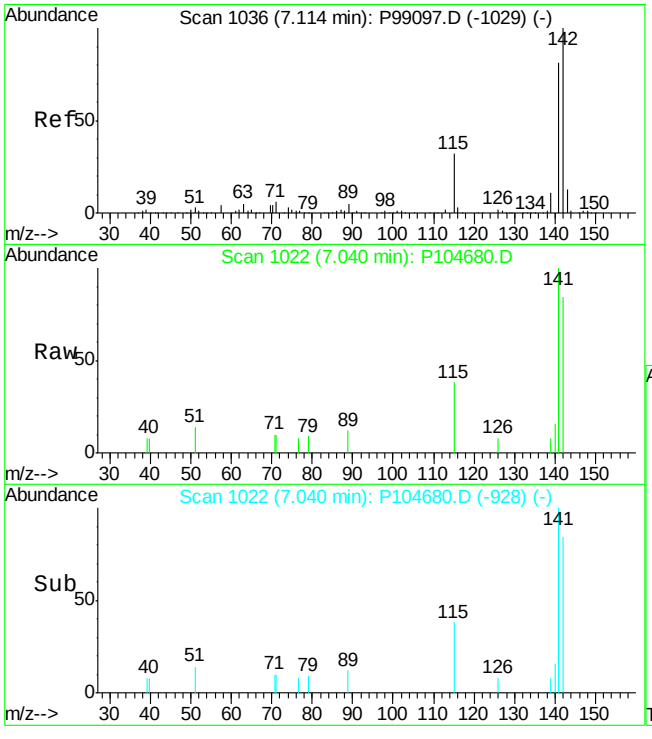


#38
Naphthalene
Concen: 2.31 ppm
RT: 5.98 min Scan# 824
Delta R.T. -0.02 min
Lab File: P104680.D
Acq: 9 May 2016 1:00 pm

Tgt Ion:128 Resp: 7583

Ion	Ratio	Lower	Upper
128	100		
129	15.6	0.0	41.5
127	15.8	0.0	42.8

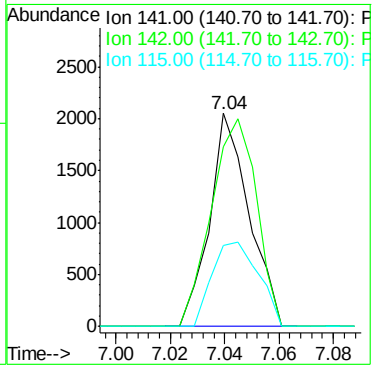


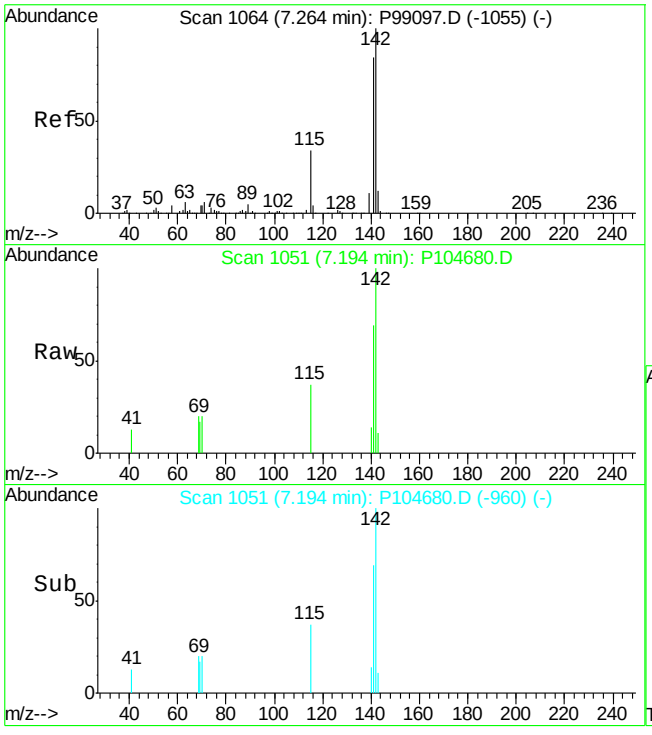


#44
2-Methylnaphthalene
Concen: 1.13 ppm
RT: 7.04 min Scan# 1022
Delta R.T. 0.00 min
Lab File: P104680.D
Acq: 9 May 2016 1:00 pm

Tgt Ion:141 Resp: 2058

Ion	Ratio	Lower	Upper
141	100		
142	84.2	54.2	114.2
115	38.1	8.1	68.1

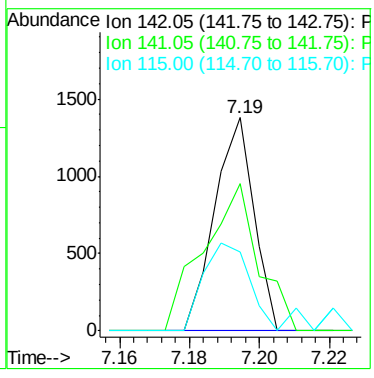




#45
1-Methylnaphthalene
Concen: 0.53 ppm
RT: 7.19 min Scan# 1051
Delta R.T. -0.02 min
Lab File: P104680.D
Acq: 9 May 2016 1:00 pm

Tgt Ion:142 Resp: 1072

Ion	Ratio	Lower	Upper
142	100		
141	68.9	58.0	118.0
115	31.3	13.4	73.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25730.D
Acq On : 7 May 2016 4:46 am
Operator : seanb1
Sample : jc19759-4
Misc : op93693,e6p1201,810
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 09 08:47:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 09 08:46:36 2016
QLast Update : Mon May 09 08:46:36 2016
Response via : Initial Calibration

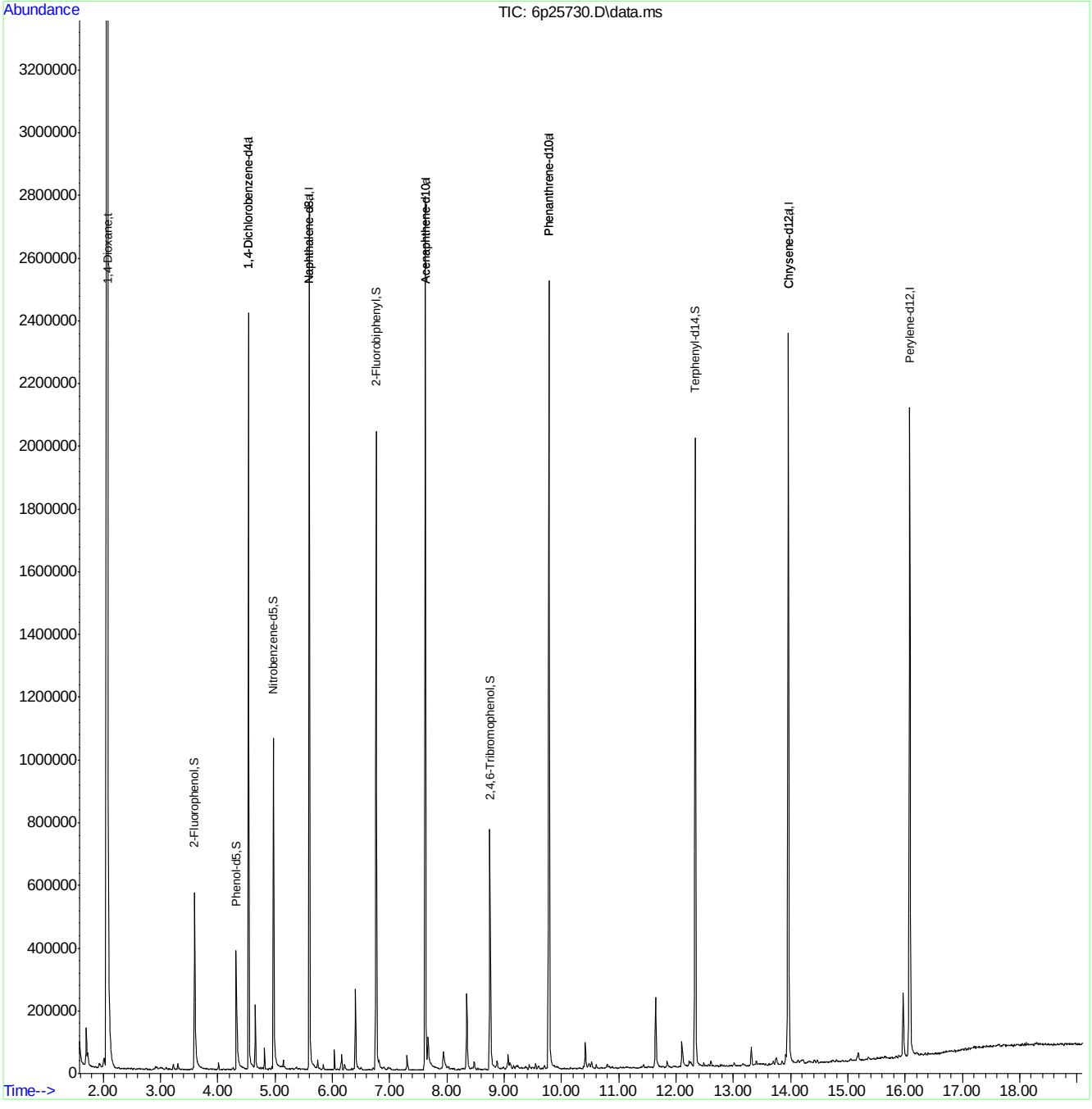
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.534	152	252364	40.00	ppm	-0.02
24) Naphthalene-d8	5.593	136	1059276	40.00	ppm	-0.06
47) Acenaphthene-d10	7.620	164	643037	40.00	ppm	-0.08
69) Phenanthrene-d10	9.781	188	1056594	40.00	ppm	-0.10
83) Chrysene-d12	13.958	240	985855	40.00	ppm	-0.05
92) Perylene-d12	16.082	264	905432	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.534	152	252364	40.00	ppm	0.00
104) Acenaphthene-d10a	7.620	164	643037	40.00	ppm	-0.05
106) Phenanthrene-d10a	9.781	188	1056594	40.00	ppm	-0.09
108) Chrysene-d12a	13.958	240	985855	40.00	ppm	-0.07
110) Naphthalene-d8a	5.593	136	1059276	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.593	112	160745	17.96	ppm	0.00
Spiked Amount 50.000			Recovery = 35.92%			
8) Phenol-d5	4.320	99	149856	12.74	ppm	0.00
Spiked Amount 50.000			Recovery = 25.48%			
25) Nitrobenzene-d5	4.967	82	355770	30.67	ppm	-0.05
Spiked Amount 50.000			Recovery = 61.34%			
51) 2-Fluorobiphenyl	6.764	172	674205	32.64	ppm	-0.08
Spiked Amount 50.000			Recovery = 65.28%			
73) 2,4,6-Tribromophenol	8.754	330	96630	39.18	ppm	-0.09
Spiked Amount 50.000			Recovery = 78.36%			
85) Terphenyl-d14	12.332	244	690142	37.25	ppm	-0.06
Spiked Amount 50.000			Recovery = 74.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.074	88	7117282	1572.17	ppm	90

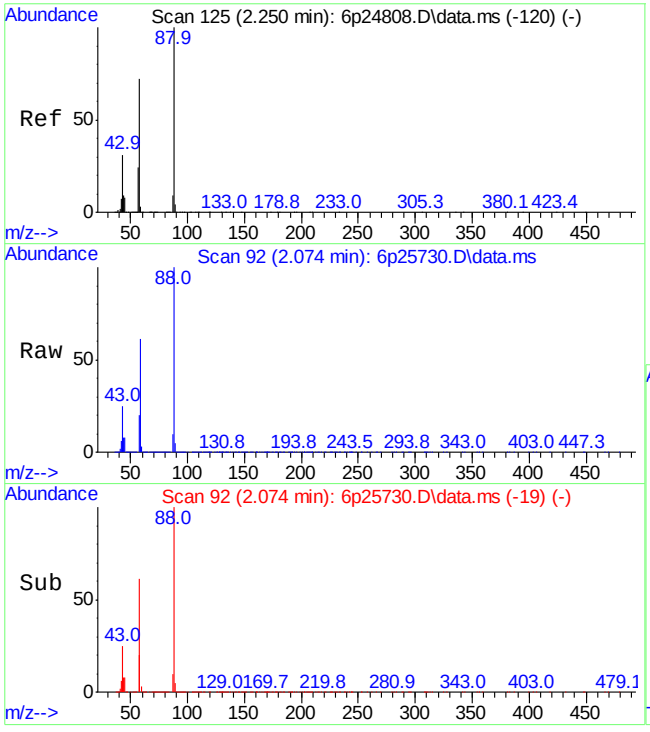
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25730.D
Acq On : 7 May 2016 4:46 am
Operator : seanb1
Sample : jc19759-4
Misc : op93693,e6p1201,810
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 09 08:47:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 09 08:46:36 2016
QLast Update : Mon May 09 08:46:36 2016
Response via : Initial Calibration

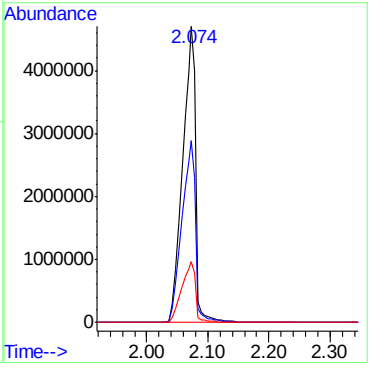




#2
1,4-Dioxane
Concen: 1572.17 ppm
RT: 2.074 min Scan# 92
Delta R.T. -0.110 min
Lab File: 6p25730.D
Acq: 7 May 2016 4:46 am

Tgt Ion: 88 Resp: 7117282

Ion	Ratio	Lower	Upper
88	100		
58	61.2	41.3	101.3
57	20.4	0.0	52.6



7.1.6

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104684.D Vial: 9
Acq On : 9 May 2016 2:57 pm Operator: linseyk
Sample : jc19759-4 Inst : MSP
Misc : op93693,ep4614,810,,,1,50 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 15:19:29 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.21	152	29349	40.00	ppm	-0.02
24) Naphthalene-d8	5.95	136	109394	40.00	ppm	-0.02
47) Acenaphthene-d10	8.67	164	65626	40.00	ppm	-0.02
69) Phenanthrene-d10	11.03	188	119981	40.00	ppm	-0.02
83) Chrysene-d12	15.72	240	119332	40.00	ppm	-0.03
92) Perylene-d12	18.27	264	99246	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.21	152	29349	40.00	ppm	-0.03
104) Phenanthrene-d10b	11.03	188	119981	40.00	ppm	-0.04
106) Chrysene-d12b	15.72	240	119332	40.00	ppm	-0.04
108) Naphthalene-d8b	5.95	136	109394	40.00	ppm	-0.03
110) Acenaphthene-d10b	8.67	164	65626	40.00	ppm	-0.04

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

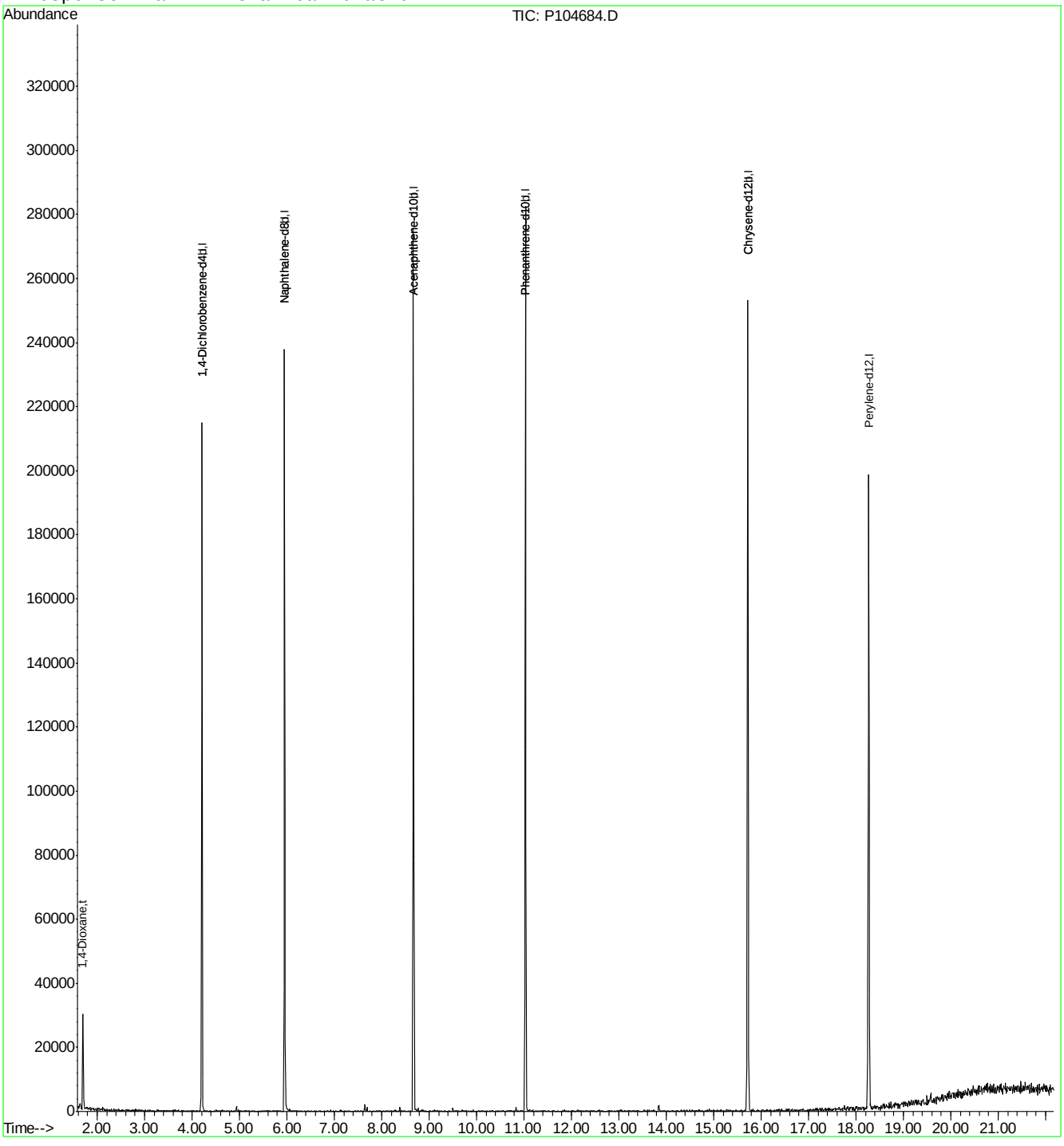
						Qvalue
2) 1,4-Dioxane	1.70	88	9247	21.59	ppm	77

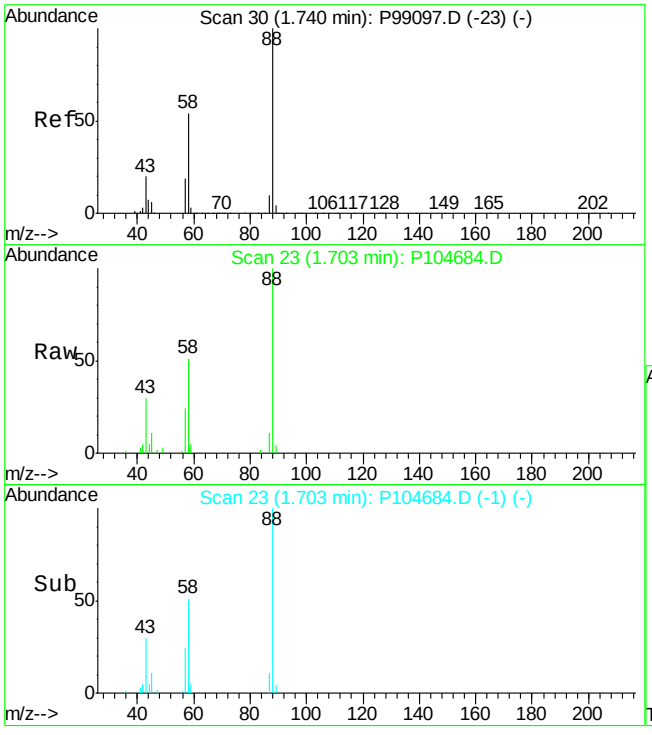
(#) = qualifier out of range (m) = manual integration (+) = signals summed
P104684.D MP4600.M Mon May 09 15:28:41 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104684.D Vial: 9
Acq On : 9 May 2016 2:57 pm Operator: linseyk
Sample : jc19759-4 Inst : MSP
Misc : op93693,ep4614,810,,,1,50 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 15:28 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration

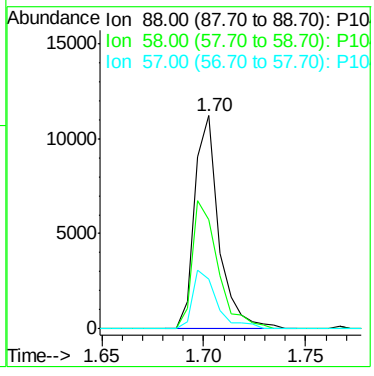




#2
1,4-Dioxane
Concen: 21.59 ppm
RT: 1.70 min Scan# 23
Delta R.T. -0.01 min
Lab File: P104684.D
Acq: 9 May 2016 2:57 pm

Tgt Ion: 88 Resp: 9247

Ion	Ratio	Lower	Upper
88	100		
58	54.4	48.2	108.2
57	23.5	0.0	59.5



7.1.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25731.D
Acq On : 7 May 2016 5:13 am
Operator : seanb1
Sample : jc19759-5
Misc : op93693,e6p1201,950
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 07 10:37:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration

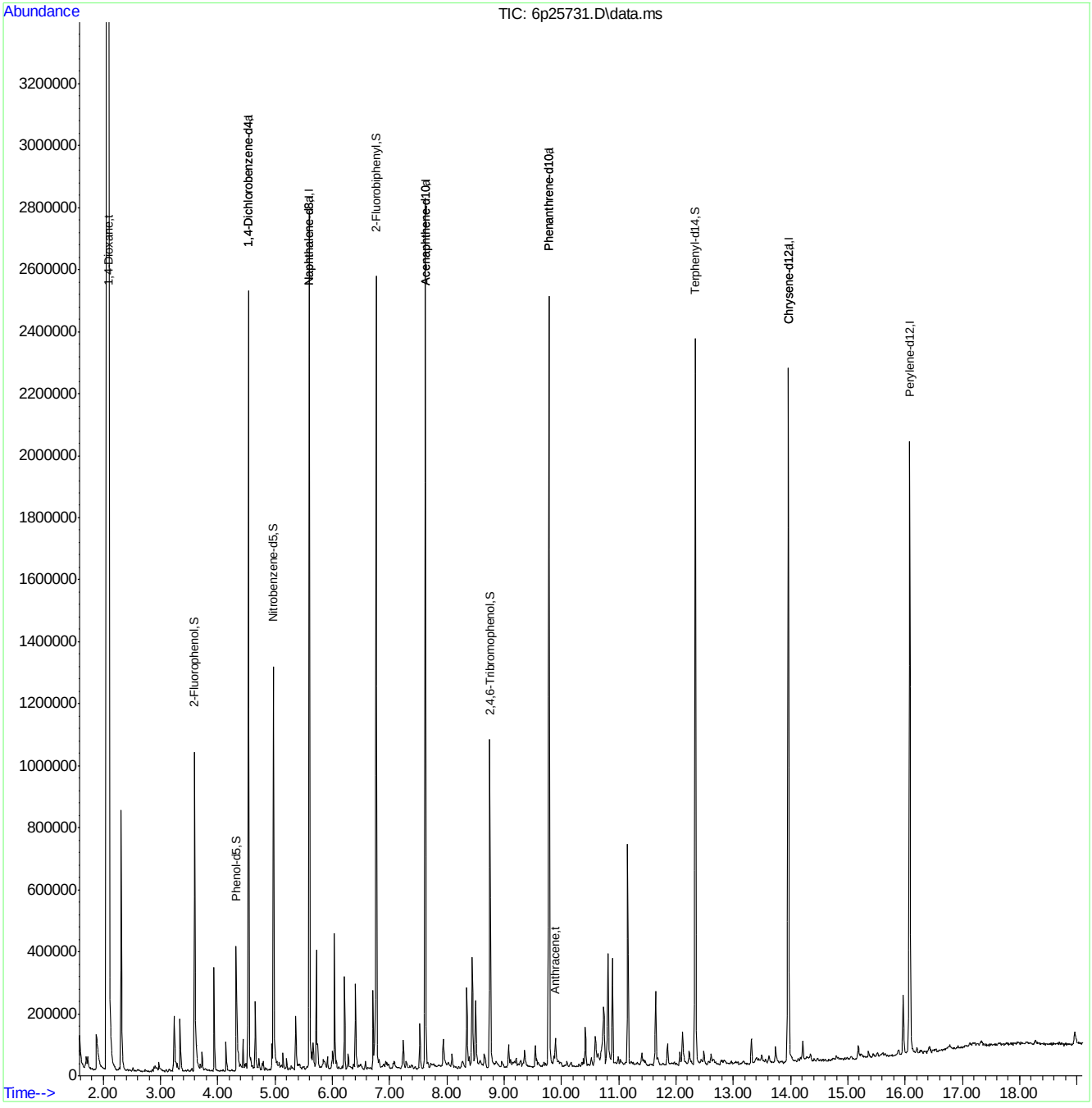
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.534	152	257317	40.00	ppm	-0.02
24) Naphthalene-d8	5.593	136	1075789	40.00	ppm	-0.06
47) Acenaphthene-d10	7.620	164	639130	40.00	ppm	-0.08
69) Phenanthrene-d10	9.781	188	1054480	40.00	ppm	-0.10
83) Chrysene-d12	13.958	240	966782	40.00	ppm	-0.05
92) Perylene-d12	16.082	264	861674	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.534	152	257317	40.00	ppm	-0.05
104) Acenaphthene-d10a	7.620	164	639130	40.00	ppm	-0.05
106) Phenanthrene-d10a	9.781	188	1054480	40.00	ppm	-0.09
108) Chrysene-d12a	13.958	240	966782	40.00	ppm	-0.07
110) Naphthalene-d8a	5.593	136	1075789	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.593	112	177336	19.43	ppm	0.00
Spiked Amount 50.000			Recovery = 38.86%			
8) Phenol-d5	4.320	99	161233	13.44	ppm	0.00
Spiked Amount 50.000			Recovery = 26.88%			
25) Nitrobenzene-d5	4.967	82	406889	34.54	ppm	-0.05
Spiked Amount 50.000			Recovery = 69.08%			
51) 2-Fluorobiphenyl	6.764	172	767309	37.38	ppm	-0.08
Spiked Amount 50.000			Recovery = 74.76%			
73) 2,4,6-Tribromophenol	8.754	330	116754	47.44	ppm	-0.09
Spiked Amount 50.000			Recovery = 94.88%			
85) Terphenyl-d14	12.338	244	809586	44.56	ppm	-0.05
Spiked Amount 50.000			Recovery = 89.12%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.095	88	14837863	3214.52	ppm	85
78) Anthracene	9.893	178	45013	1.49	ppm	98

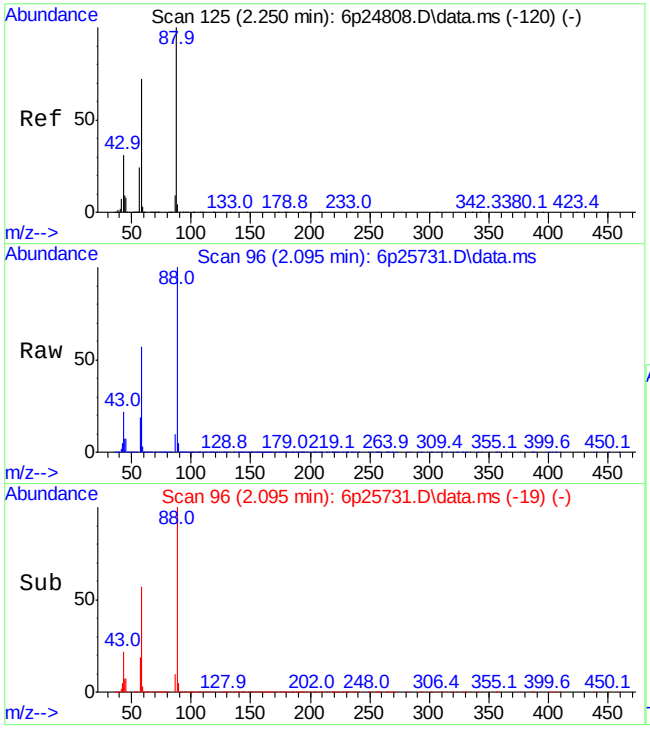
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25731.D
Acq On : 7 May 2016 5:13 am
Operator : seanb1
Sample : jc19759-5
Misc : op93693,e6p1201,950
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 07 10:37:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration

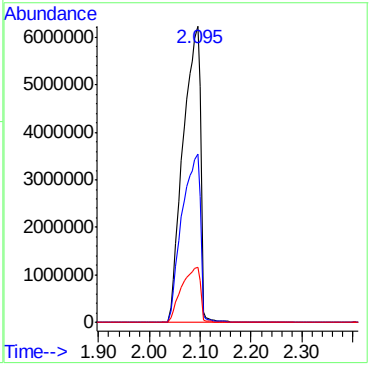


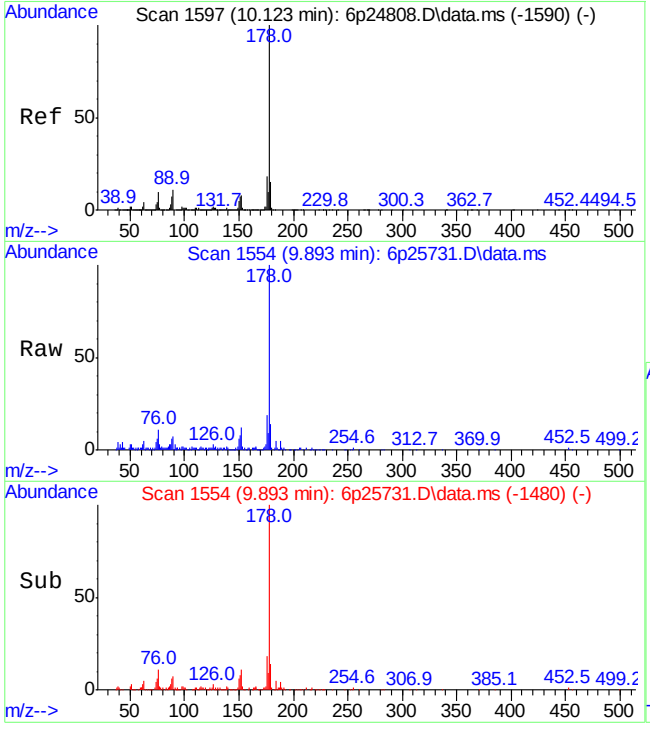


#2
1,4-Dioxane
Concen: 3214.52 ppm
RT: 2.095 min Scan# 96
Delta R.T. -0.088 min
Lab File: 6p25731.D
Acq: 7 May 2016 5:13 am

Tgt Ion: 88 Resp:14837863

Ion	Ratio	Lower	Upper
88	100		
58	57.0	41.3	101.3
57	18.7	0.0	52.6

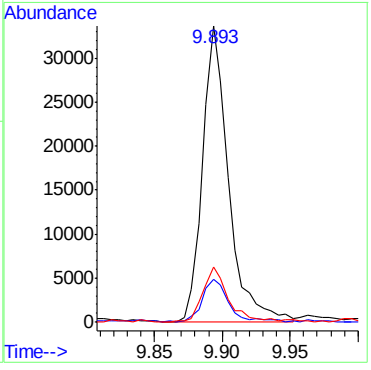




#78
Anthracene
Concen: 1.49 ppm
RT: 9.893 min Scan# 1554
Delta R.T. -0.102 min
Lab File: 6p25731.D
Acq: 7 May 2016 5:13 am

Tgt Ion:178 Resp: 45013

Ion	Ratio	Lower	Upper
178	100		
179	14.4	0.0	45.5
176	18.3	0.0	48.7



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104682.D Vial: 7
Acq On : 9 May 2016 1:58 pm Operator: linseyk
Sample : jc19759-5 Inst : MSP
Misc : op93693,ep4614,950,,,1,100 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 14:21:08 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.21	152	27804	40.00 ppm	-0.02
24) Naphthalene-d8	5.95	136	102732	40.00 ppm	-0.02
47) Acenaphthene-d10	8.67	164	59956	40.00 ppm	-0.02
69) Phenanthrene-d10	11.03	188	109240	40.00 ppm	-0.02
83) Chrysene-d12	15.72	240	104578	40.00 ppm	-0.03
92) Perylene-d12	18.27	264	88230	40.00 ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.21	152	27804	40.00 ppm	-0.03
104) Phenanthrene-d10b	11.03	188	109240	40.00 ppm	-0.04
106) Chrysene-d12b	15.72	240	104578	40.00 ppm	-0.04
108) Naphthalene-d8b	5.95	136	102732	40.00 ppm	-0.03
110) Acenaphthene-d10b	8.67	164	59956	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	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%

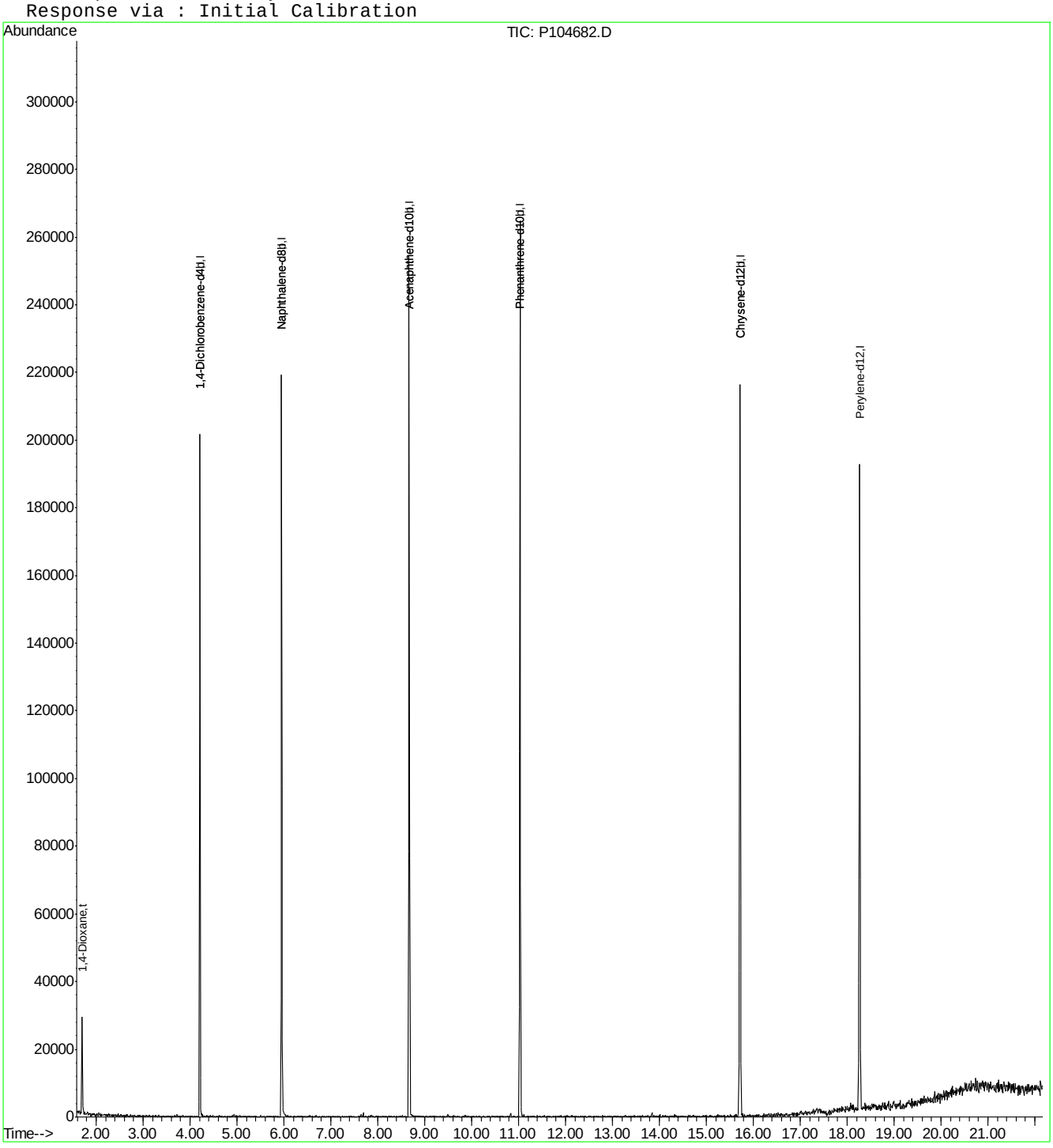
Target Compounds					Qvalue
2) 1,4-Dioxane	1.70	88	8608	21.21 ppm	85

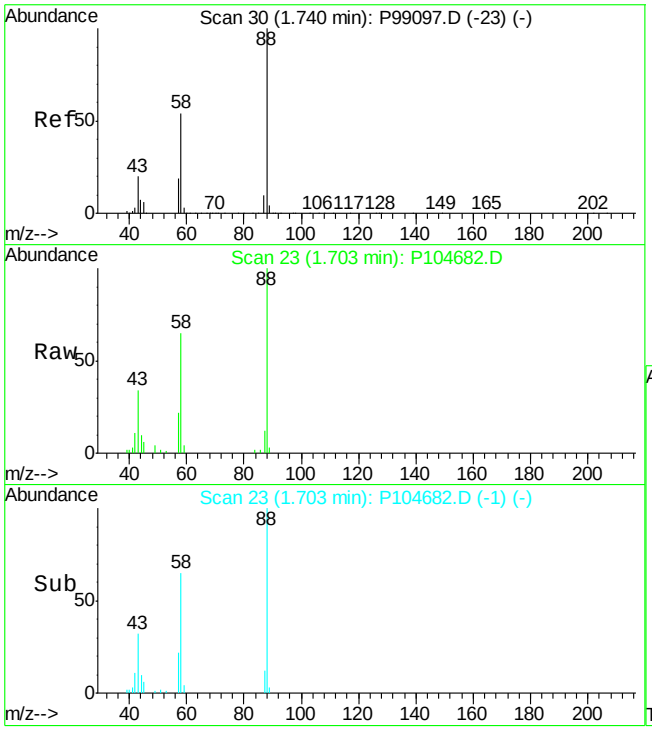
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104682.D Vial: 7
Acq On : 9 May 2016 1:58 pm Operator: linseyk
Sample : jc19759-5 Inst : MSP
Misc : op93693,ep4614,950,,,1,100 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 14:29 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration

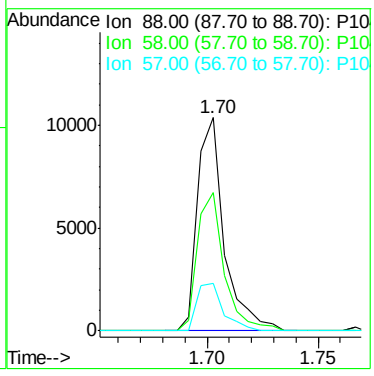




#2
1,4-Dioxane
Concen: 21.21 ppm
RT: 1.70 min Scan# 23
Delta R.T. -0.01 min
Lab File: P104682.D
Acq: 9 May 2016 1:58 pm

Tgt Ion: 88 Resp: 8608

Ion	Ratio	Lower	Upper
88	100		
58	64.6	48.2	108.2
57	22.1	0.0	59.5



7.1.9

7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25732.D
Acq On : 7 May 2016 5:39 am
Operator : seanb1
Sample : jc19759-6
Misc : op93693,e6p1201,800
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 07 10:39:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration

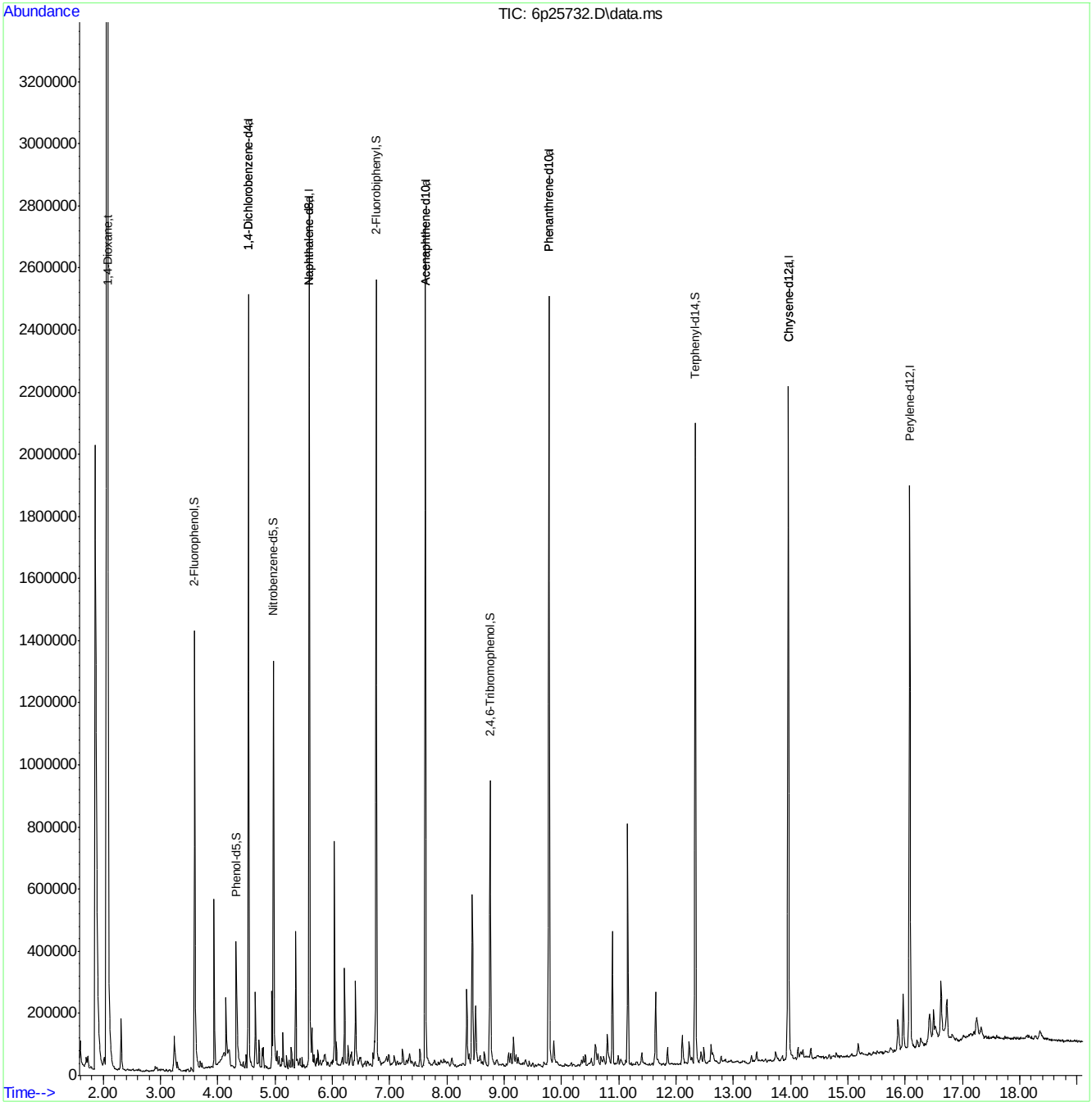
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.534	152	259609	40.00	ppm	-0.02
24) Naphthalene-d8	5.593	136	1069768	40.00	ppm	-0.06
47) Acenaphthene-d10	7.620	164	627422	40.00	ppm	-0.08
69) Phenanthrene-d10	9.781	188	1028210	40.00	ppm	-0.10
83) Chrysene-d12	13.958	240	928611	40.00	ppm	-0.05
92) Perylene-d12	16.082	264	802381	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.534	152	259609	40.00	ppm	-0.05
104) Acenaphthene-d10a	7.620	164	627422	40.00	ppm	-0.05
106) Phenanthrene-d10a	9.781	188	1028210	40.00	ppm	-0.09
108) Chrysene-d12a	13.958	240	928611	40.00	ppm	-0.07
110) Naphthalene-d8a	5.593	136	1069768	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.593	112	181634	19.73	ppm	0.00
Spiked Amount 50.000			Recovery = 39.46%			
8) Phenol-d5	4.320	99	177555	14.67	ppm	0.00
Spiked Amount 50.000			Recovery = 29.34%			
25) Nitrobenzene-d5	4.967	82	408806	34.90	ppm	-0.05
Spiked Amount 50.000			Recovery = 69.80%			
51) 2-Fluorobiphenyl	6.764	172	749063	37.17	ppm	-0.08
Spiked Amount 50.000			Recovery = 74.34%			
73) 2,4,6-Tribromophenol	8.754	330	105744	44.06	ppm	-0.09
Spiked Amount 50.000			Recovery = 88.12%			
85) Terphenyl-d14	12.332	244	724991	41.55	ppm	-0.06
Spiked Amount 50.000			Recovery = 83.10%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.079	88	6931667	1488.44	ppm	88

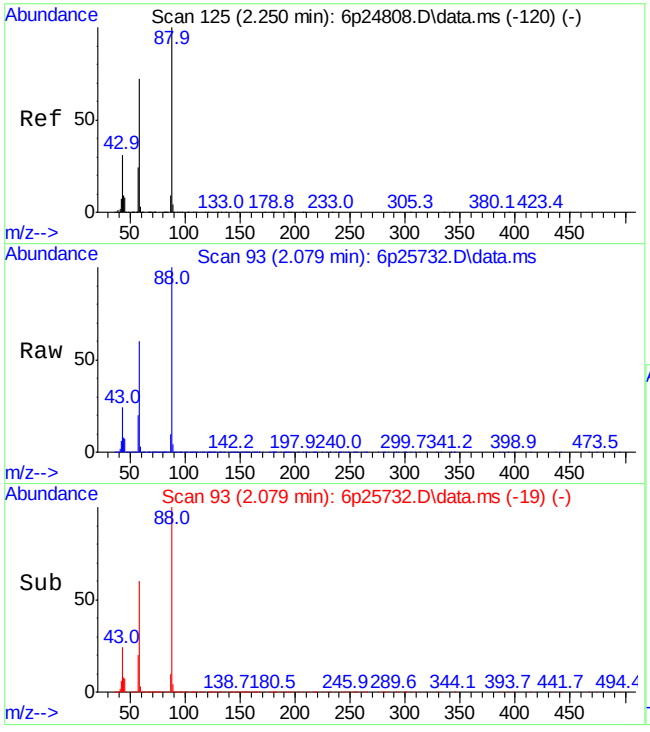
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25732.D
Acq On : 7 May 2016 5:39 am
Operator : seanb1
Sample : jc19759-6
Misc : op93693,e6p1201,800
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 07 10:39:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration

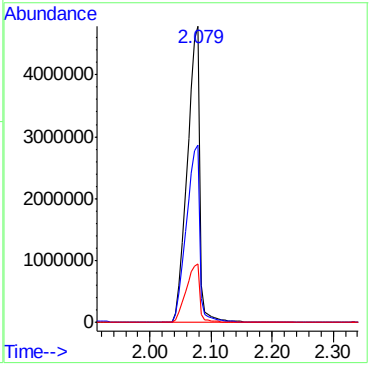




#2
1,4-Dioxane
Concen: 1488.44 ppm
RT: 2.079 min Scan# 93
Delta R.T. -0.104 min
Lab File: 6p25732.D
Acq: 7 May 2016 5:39 am

Tgt Ion: 88 Resp: 6931667

Ion	Ratio	Lower	Upper
88	100		
58	59.8	41.3	101.3
57	19.8	0.0	52.6



7.1.10

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104685.D Vial: 10
Acq On : 9 May 2016 3:26 pm Operator: linseyk
Sample : jc19759-6 Inst : MSP
Misc : op93693,ep4614,800,,,1,50 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 15:48:33 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 15:30:51 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.21	152	26865	40.00 ppm	-0.02
24) Naphthalene-d8	5.95	136	101618	40.00 ppm	-0.02
47) Acenaphthene-d10	8.67	164	59710	40.00 ppm	-0.02
69) Phenanthrene-d10	11.03	188	108324	40.00 ppm	-0.02
83) Chrysene-d12	15.72	240	114145	40.00 ppm	-0.03
92) Perylene-d12	18.27	264	94106	40.00 ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.21	152	26865	40.00 ppm	-0.03
104) Phenanthrene-d10b	11.03	188	108324	40.00 ppm	-0.04
106) Chrysene-d12b	15.72	240	114145	40.00 ppm	-0.04
108) Naphthalene-d8b	5.95	136	101618	40.00 ppm	-0.03
110) Acenaphthene-d10b	8.67	164	59710	40.00 ppm	-0.04

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%

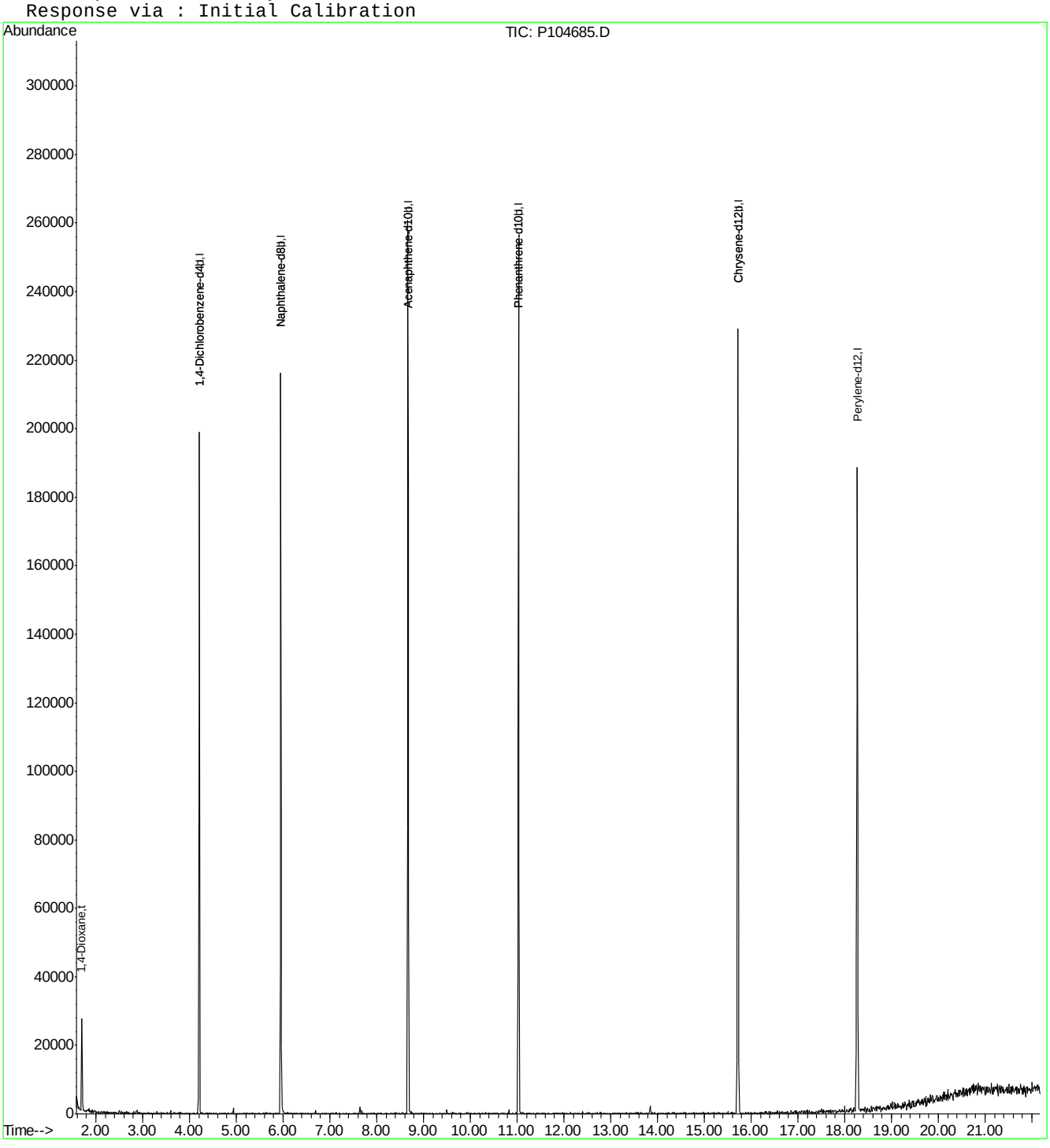
Target Compounds					Qvalue
2) 1,4-Dioxane	1.70	88	8621	21.99 ppm	81

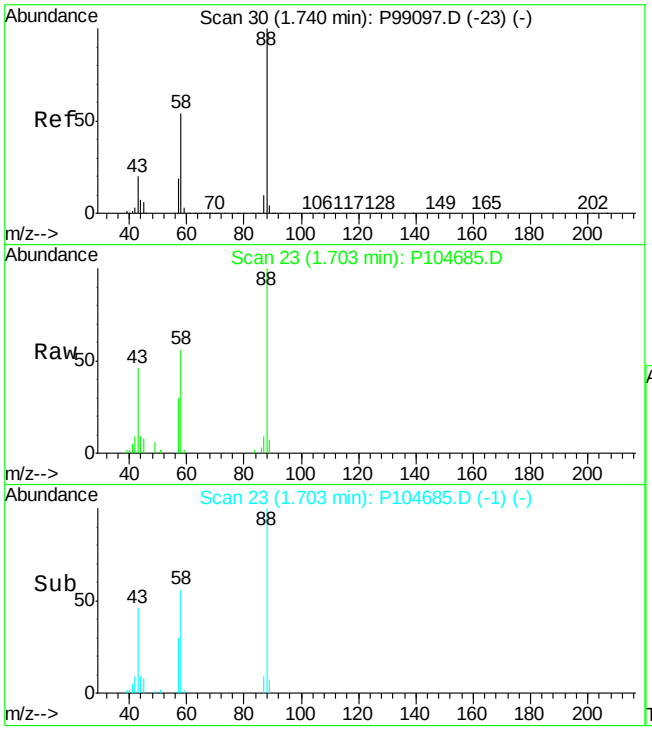
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104685.D Vial: 10
Acq On : 9 May 2016 3:26 pm Operator: linseyk
Sample : jc19759-6 Inst : MSP
Misc : op93693,ep4614,800,,,1,50 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 15:52 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 15:30:51 2016
Response via : Initial Calibration

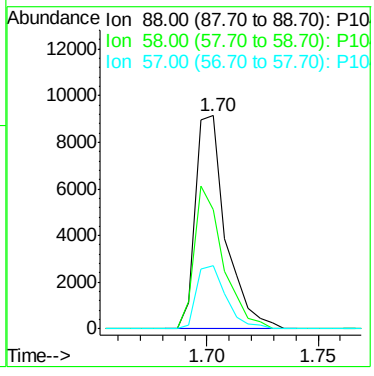




#2
1,4-Dioxane
Concen: 21.99 ppm
RT: 1.70 min Scan# 23
Delta R.T. -0.01 min
Lab File: P104685.D
Acq: 9 May 2016 3:26 pm

Tgt Ion: 88 Resp: 8621

Ion	Ratio	Lower	Upper
88	100		
58	56.1	48.2	108.2
57	29.8	0.0	59.5



7.1.11

7

SGS ACCUTEST JC19759

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/09/16 08:52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61153.D
Acq On : 7 May 2016 2:47 am
Operator : juliusj
Sample : jc19759-1
Misc : op93693a,e3m2875,950
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 07 13:07:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.406	150	462139	4.00	ppm	-0.02
14) Fluorene-d10	13.411	176	584026	4.00	ppm	-0.02
21) Fluoranthene-d10	17.623	212	933201	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.228	264	737561	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.368	112	1048500	18.13	ppm	-0.06
Spiked Amount 50.000			Recovery = 36.26%			
4) Phenol-d5	5.964	99	1068973	11.17	ppm	-0.02
Spiked Amount 50.000			Recovery = 22.34%			
7) Nitrobenzene-d5	7.531	82	2624602	29.50	ppm	-0.04
Spiked Amount 50.000			Recovery = 59.00%			
15) 2-Fluorobiphenyl	11.083	172	5727084	35.69	ppm	-0.04
Spiked Amount 50.000			Recovery = 71.38%			
20) 2,4,6-Tribromophenol	13.957	330	680539	37.23	ppm	0.00
Spiked Amount 50.000			Recovery = 74.46%			
28) Terphenyl-d14	18.442	244	4990942	36.87	ppm	0.00
Spiked Amount 50.000			Recovery = 73.74%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.174	88	38671018m	1619.59	ppm	
25) Anthracene	15.475	178	300691	1.49	ppm	90
29) Benzo[a]anthracene	20.157	228	33231	0.13	ppm	79

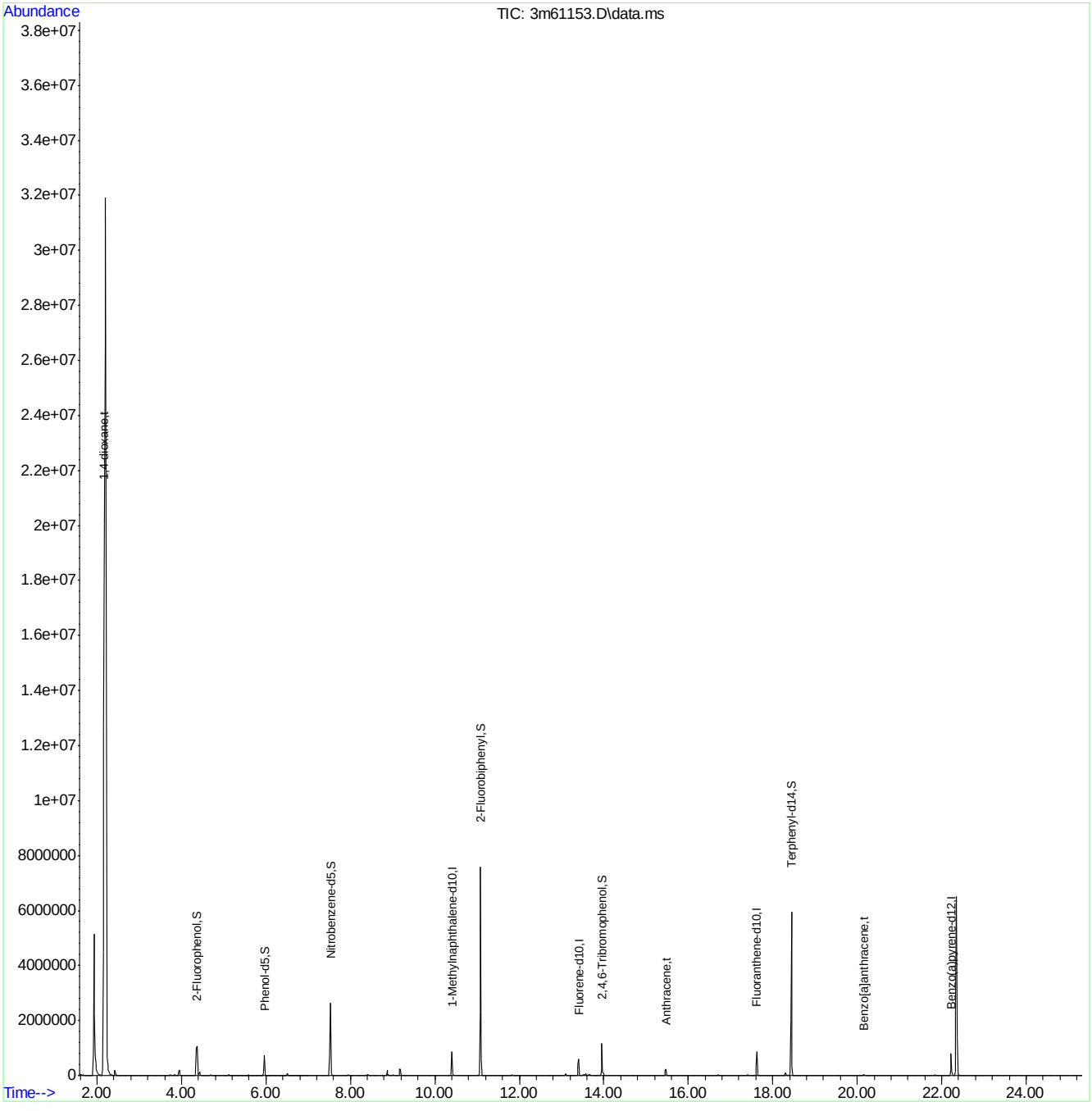
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.12
7

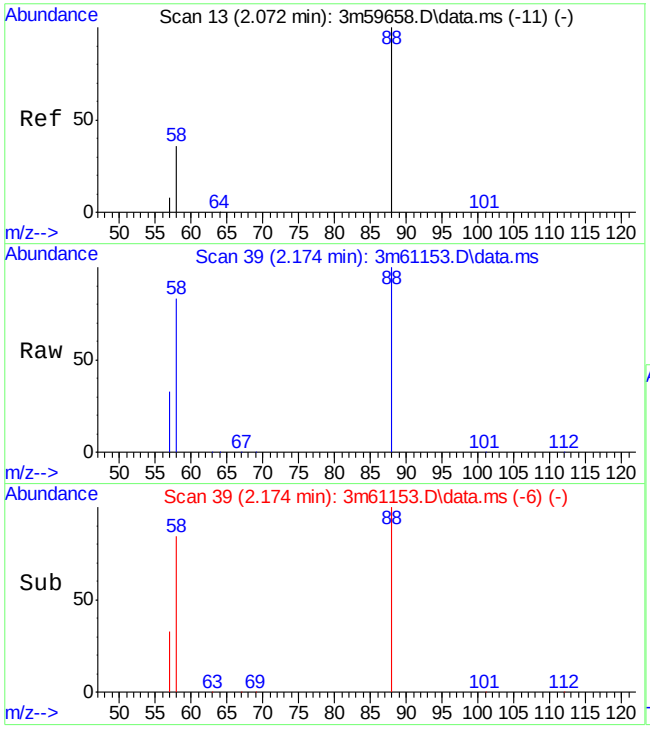
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61153.D
Acq On : 7 May 2016 2:47 am
Operator : juliusj
Sample : jc19759-1
Misc : op93693a,e3m2875,950
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 07 13:07:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration



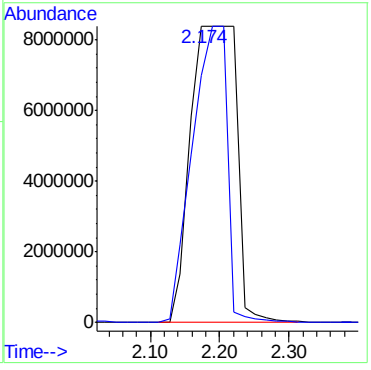
SGS ACCUTEST JC19759

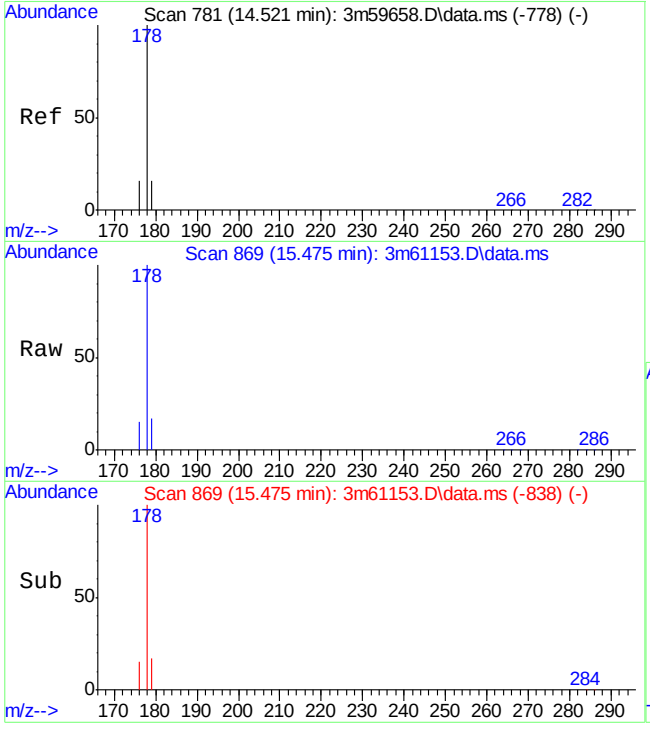


#2
1,4-dioxane
Concen: 1619.59 ppm m
RT: 2.174 min Scan# 39
Delta R.T. 0.015 min
Lab File: 3m61153.D
Acq: 7 May 2016 2:47 am

Tgt Ion: 88 Resp:38671018

Ion	Ratio	Lower	Upper
88	100		
58	83.5	9.5	49.5#

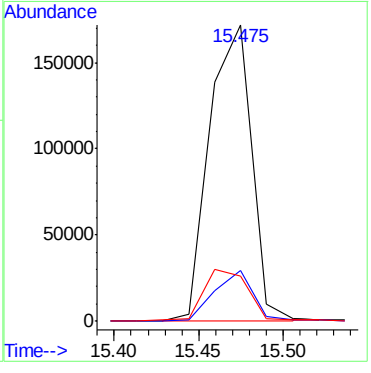


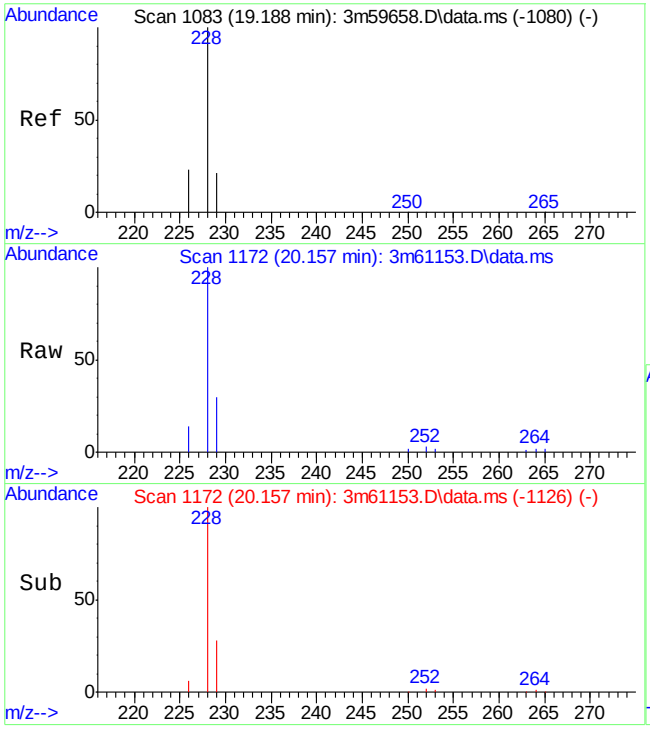


#25
Anthracene
Concen: 1.49 ppm
RT: 15.475 min Scan# 869
Delta R.T. -0.015 min
Lab File: 3m61153.D
Acq: 7 May 2016 2:47 am

Tgt Ion:178 Resp: 300691

Ion	Ratio	Lower	Upper
178	100		
179	17.0	0.0	44.0
176	15.0	0.0	50.4

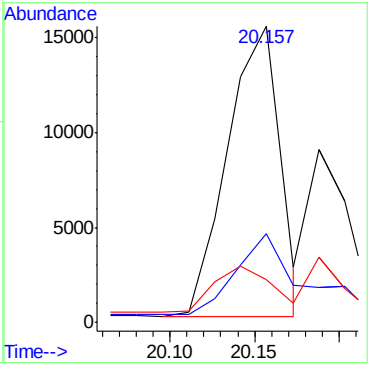




#29
Benzo[a]anthracene
Concen: 0.13 ppm
RT: 20.157 min Scan# 1172
Delta R.T. 0.218 min
Lab File: 3m61153.D
Acq: 7 May 2016 2:47 am

Tgt Ion:228 Resp: 33231

Ion	Ratio	Lower	Upper
228	100		
229	25.0	0.0	51.3
226	10.5	0.0	56.4



7.1.12

7

SGS ACCUTEST JC19759

Manual Integration Approval Summary

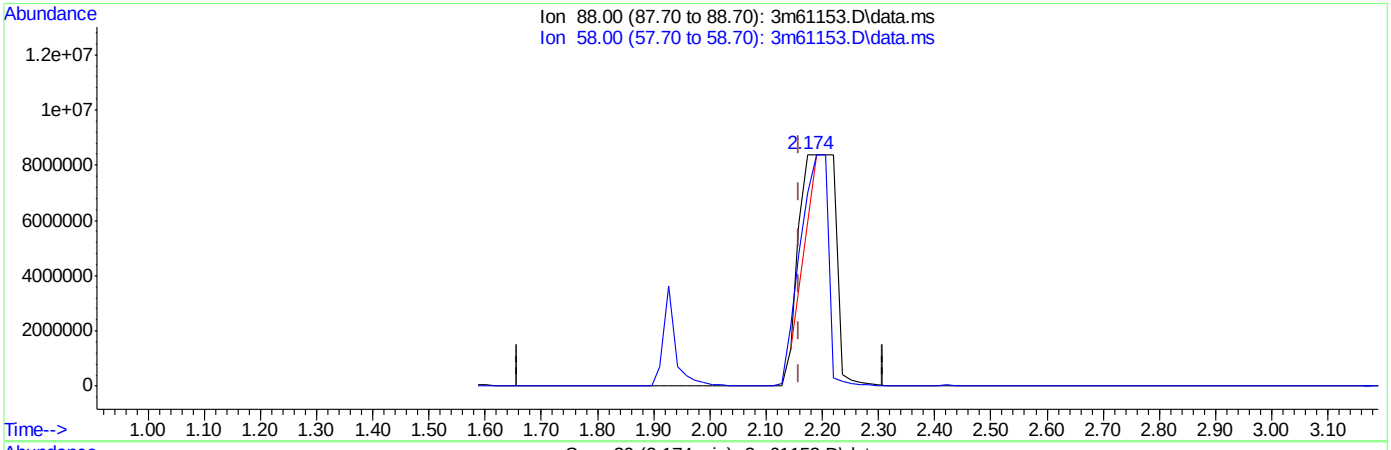
Sample Number:	JC19759-1	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M61153.D	**Analyst approved:**	05/07/16 13:37 Kristi Schollenberger
Injection Time:	05/07/16 02:47	**Supervisor approved:**	05/09/16 08:52 Nina Pandya

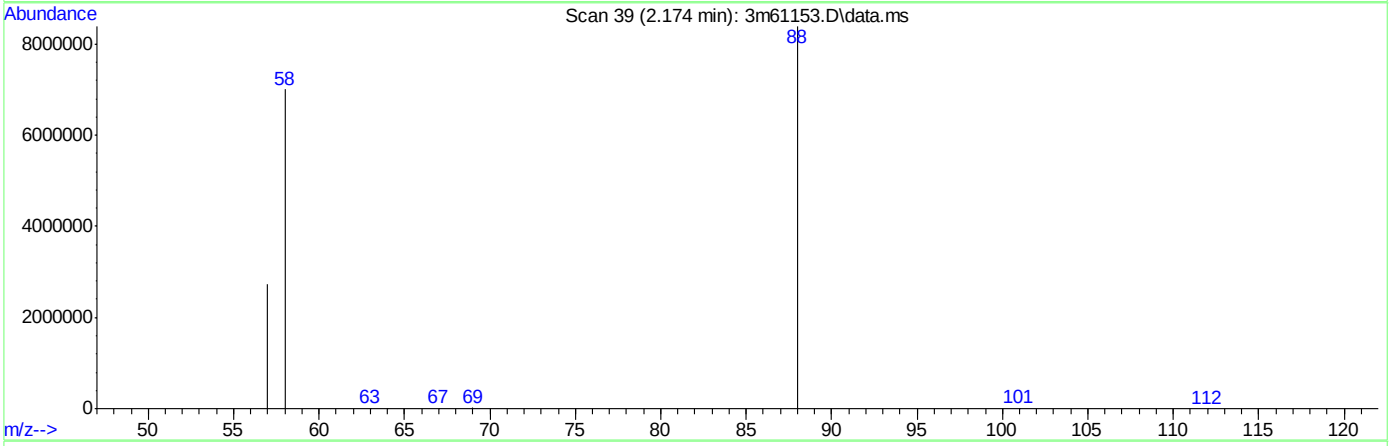
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.17	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61153.D
Acq On : 7 May 2016 2:47 am
Operator : juliusj
Sample : jc19759-1
Misc : op93693a,e3m2875,950
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 07 13:06:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration





TIC: 3m61153.D\data.ms

(2) 1,4-dioxane (t)

2.174min (+0.015) 363.67ppm

response 8683413

Ion	Exp%	Act%
88.00	100	100
58.00	29.50	48.83
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/09/16 12:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61154.D
Acq On : 7 May 2016 3:19 am
Operator : juliusj
Sample : jc19759-2
Misc : op93693a,e3m2875,800
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 07 13:08:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.406	150	354984	4.00	ppm	-0.02
14) Fluorene-d10	13.411	176	459210	4.00	ppm	-0.02
21) Fluoranthene-d10	17.623	212	730941	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.228	264	576263	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.368	112	770782	17.36	ppm	-0.06
Spiked Amount 50.000			Recovery = 34.72%			
4) Phenol-d5	5.952	99	803907	10.94	ppm	-0.03
Spiked Amount 50.000			Recovery = 21.88%			
7) Nitrobenzene-d5	7.531	82	1883946	27.57	ppm	-0.04
Spiked Amount 50.000			Recovery = 55.14%			
15) 2-Fluorobiphenyl	11.083	172	4359573	34.55	ppm	-0.04
Spiked Amount 50.000			Recovery = 69.10%			
20) 2,4,6-Tribromophenol	13.957	330	520766	36.23	ppm	0.00
Spiked Amount 50.000			Recovery = 72.46%			
28) Terphenyl-d14	18.442	244	3630295	34.24	ppm	0.00
Spiked Amount 50.000			Recovery = 68.48%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.174	88	39245651m	2139.81	ppm	

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

7.1.13

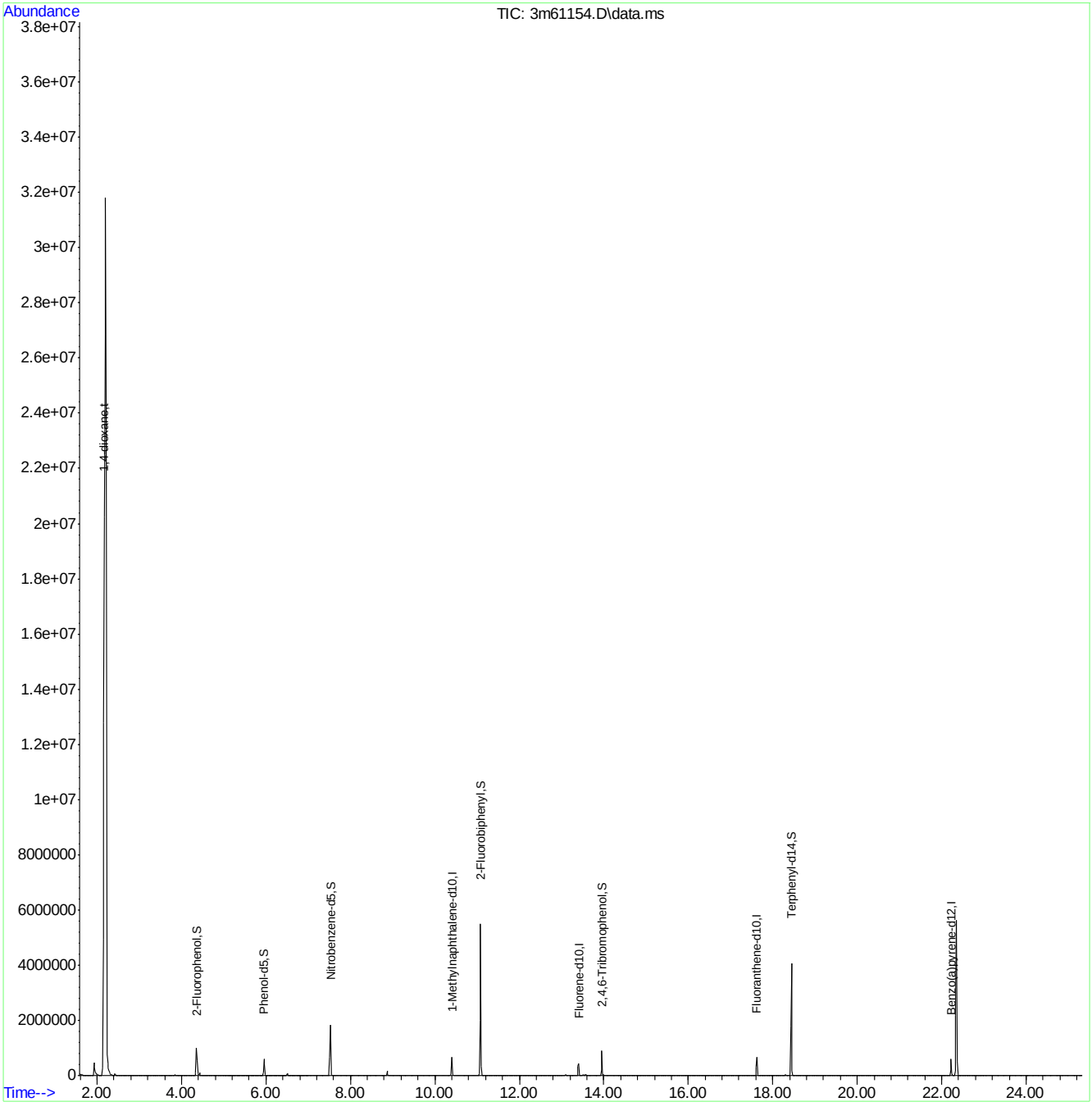
7

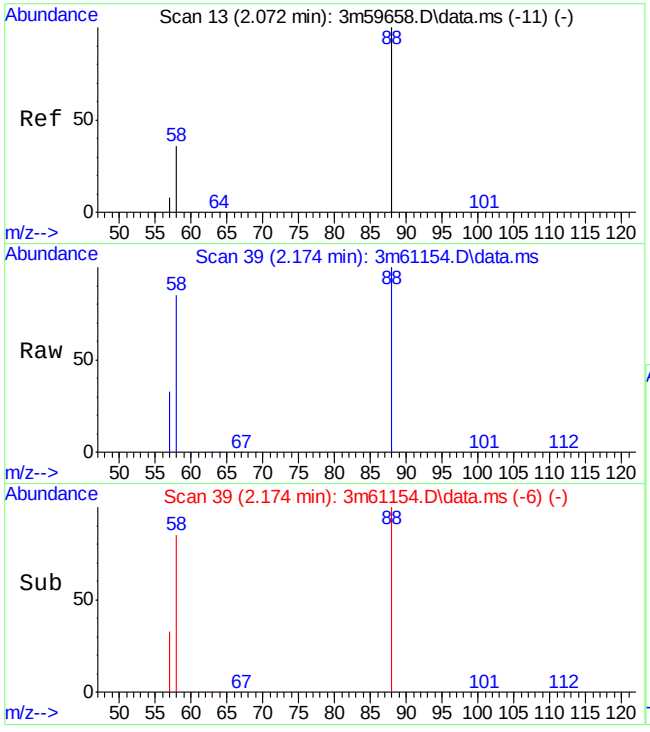
SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61154.D
Acq On : 7 May 2016 3:19 am
Operator : juliusj
Sample : jc19759-2
Misc : op93693a,e3m2875,800
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 07 13:08:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

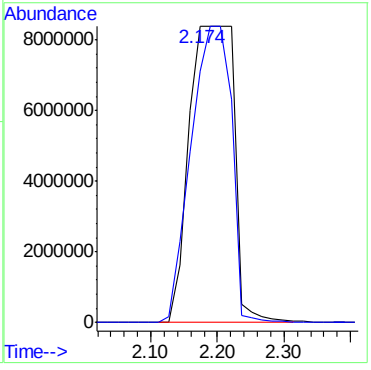




#2
1,4-dioxane
Concen: 2139.81 ppm m
RT: 2.174 min Scan# 39
Delta R.T. 0.015 min
Lab File: 3m61154.D
Acq: 7 May 2016 3:19 am

Tgt Ion: 88 Resp:39245651

Ion	Ratio	Lower	Upper
88	100		
58	84.8	9.5	49.5#



SGS ACCUTEST JC19759

Manual Integration Approval Summary

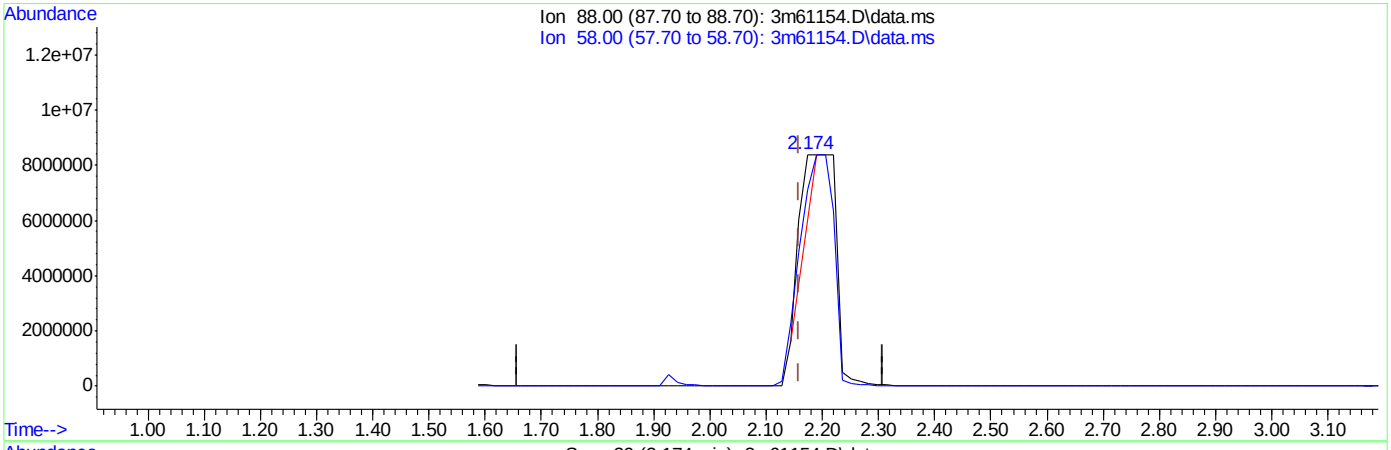
Sample Number:	JC19759-2	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M61154.D	**Analyst approved:**	05/07/16 13:37 Kristi Schollenberger
Injection Time:	05/07/16 03:19	**Supervisor approved:**	05/09/16 12:04 Nina Pandya

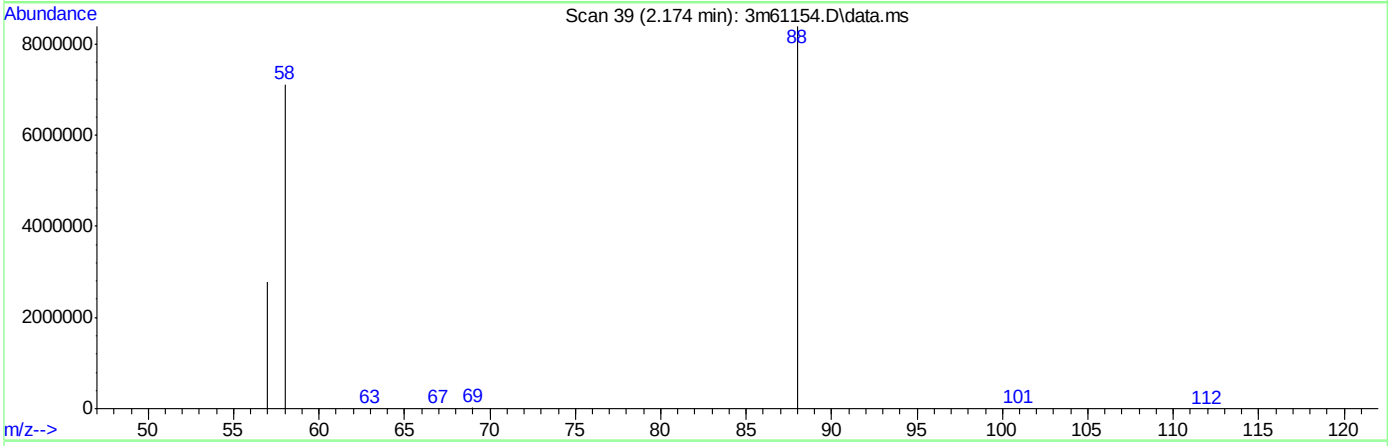
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.17	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61154.D
Acq On : 7 May 2016 3:19 am
Operator : juliusj
Sample : jc19759-2
Misc : op93693a,e3m2875,800
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 07 13:07:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration





TIC: 3m61154.D\data.ms

(2) 1,4-dioxane (t)

2.174min (+0.015) 474.38ppm

response 8700558

Ion	Exp%	Act%
88.00	100	100
58.00	29.50	52.23#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2876\
Data File : 3m61161.D
Acq On : 9 May 2016 9:39 am
Operator : linseyk
Sample : jc19759-3
Misc : op93693a,e3m2876,990
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 12:01:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 09 09:04:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.386	150	417999	4.00	ppm	-0.04
14) Fluorene-d10	13.392	176	658898	4.00	ppm	-0.04
21) Fluoranthene-d10	17.608	212	990182	4.00	ppm	-0.03
31) Benzo(a)pyrene-d12	22.212	264	784007	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.338	112	1044857	19.98	ppm	-0.09
Spiked Amount 50.000			Recovery = 39.96%			
4) Phenol-d5	5.940	99	1026229	11.86	ppm	-0.04
Spiked Amount 50.000			Recovery = 23.72%			
7) Nitrobenzene-d5	7.512	82	2766206	34.38	ppm	-0.06
Spiked Amount 50.000			Recovery = 68.76%			
15) 2-Fluorobiphenyl	11.068	172	5955652	32.89	ppm	-0.06
Spiked Amount 50.000			Recovery = 65.78%			
20) 2,4,6-Tribromophenol	13.939	330	736058	35.69	ppm	-0.01
Spiked Amount 50.000			Recovery = 71.38%			
28) Terphenyl-d14	18.427	244	5592414	38.93	ppm	0.00
Spiked Amount 50.000			Recovery = 77.86%			
Target Compounds						Qvalue
9) Naphthalene	8.905	128	528831	2.28	ppm	99

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

7.1.14

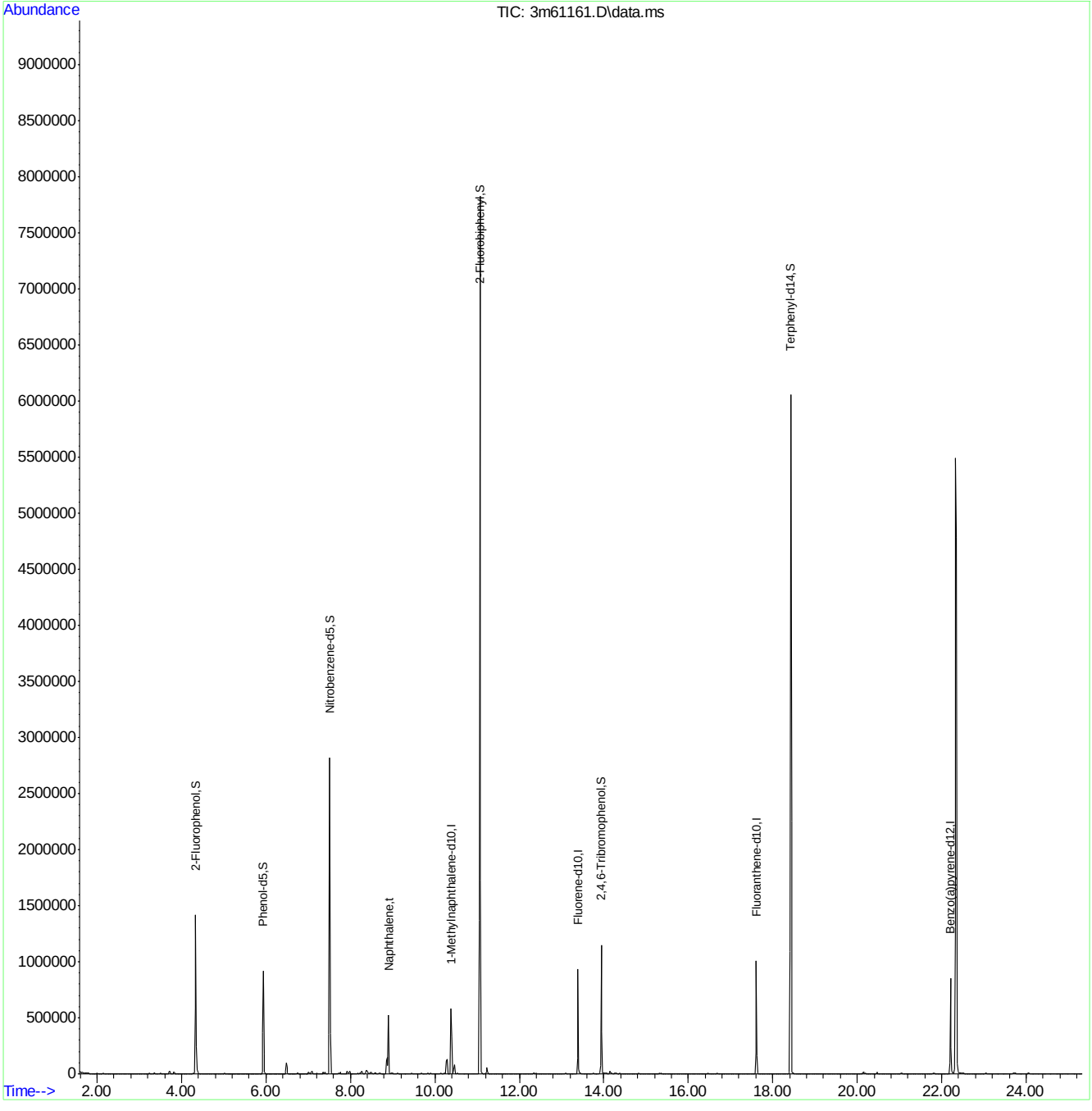
7

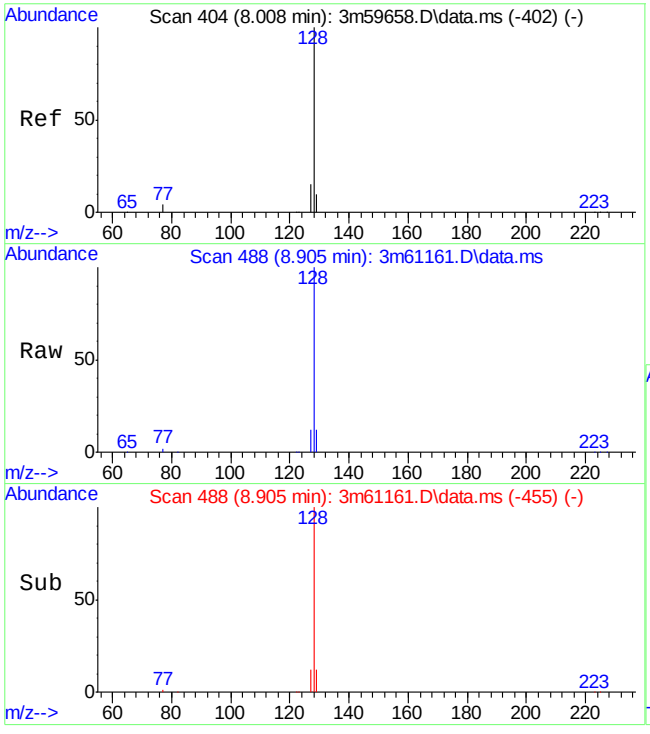
SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2876\
Data File : 3m61161.D
Acq On : 9 May 2016 9:39 am
Operator : linseyk
Sample : jc19759-3
Misc : op93693a,e3m2876,990
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 12:01:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 09 09:04:11 2016
Response via : Initial Calibration

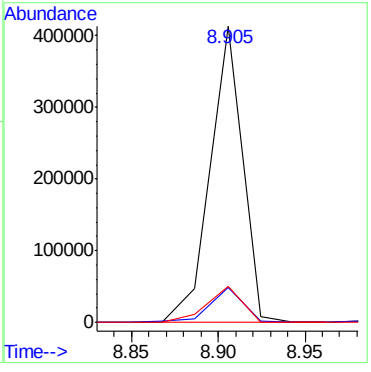




#9
Naphthalene
Concen: 2.28 ppm
RT: 8.905 min Scan# 488
Delta R.T. 0.125 min
Lab File: 3m61161.D
Acq: 9 May 2016 9:39 am

Tgt Ion:128 Resp: 528831

Ion	Ratio	Lower	Upper
128	100		
129	11.7	0.0	42.2
127	12.1	0.0	41.6



7.1.14

7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61156.D
Acq On : 7 May 2016 4:23 am
Operator : juliusj
Sample : jc19759-4
Misc : op93693a,e3m2875,810
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 07 13:10:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.406	150	348029	4.00	ppm	-0.02
14) Fluorene-d10	13.411	176	424512	4.00	ppm	-0.02
21) Fluoranthene-d10	17.623	212	698491	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.228	264	551733	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.353	112	834995	19.18	ppm	-0.07
Spiked Amount 50.000			Recovery = 38.36%			
4) Phenol-d5	5.952	99	854435	11.86	ppm	-0.03
Spiked Amount 50.000			Recovery = 23.72%			
7) Nitrobenzene-d5	7.531	82	1641042	24.50	ppm	-0.04
Spiked Amount 50.000			Recovery = 49.00%			
15) 2-Fluorobiphenyl	11.083	172	4122435	35.34	ppm	-0.04
Spiked Amount 50.000			Recovery = 70.68%			
20) 2,4,6-Tribromophenol	13.957	330	509991	38.39	ppm	0.00
Spiked Amount 50.000			Recovery = 76.78%			
28) Terphenyl-d14	18.442	244	3850311	38.00	ppm	0.00
Spiked Amount 50.000			Recovery = 76.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.174	88	22439157	1247.91	ppm #	4
9) Naphthalene	8.924	128	28908	0.15	ppm	97

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

7.1.15

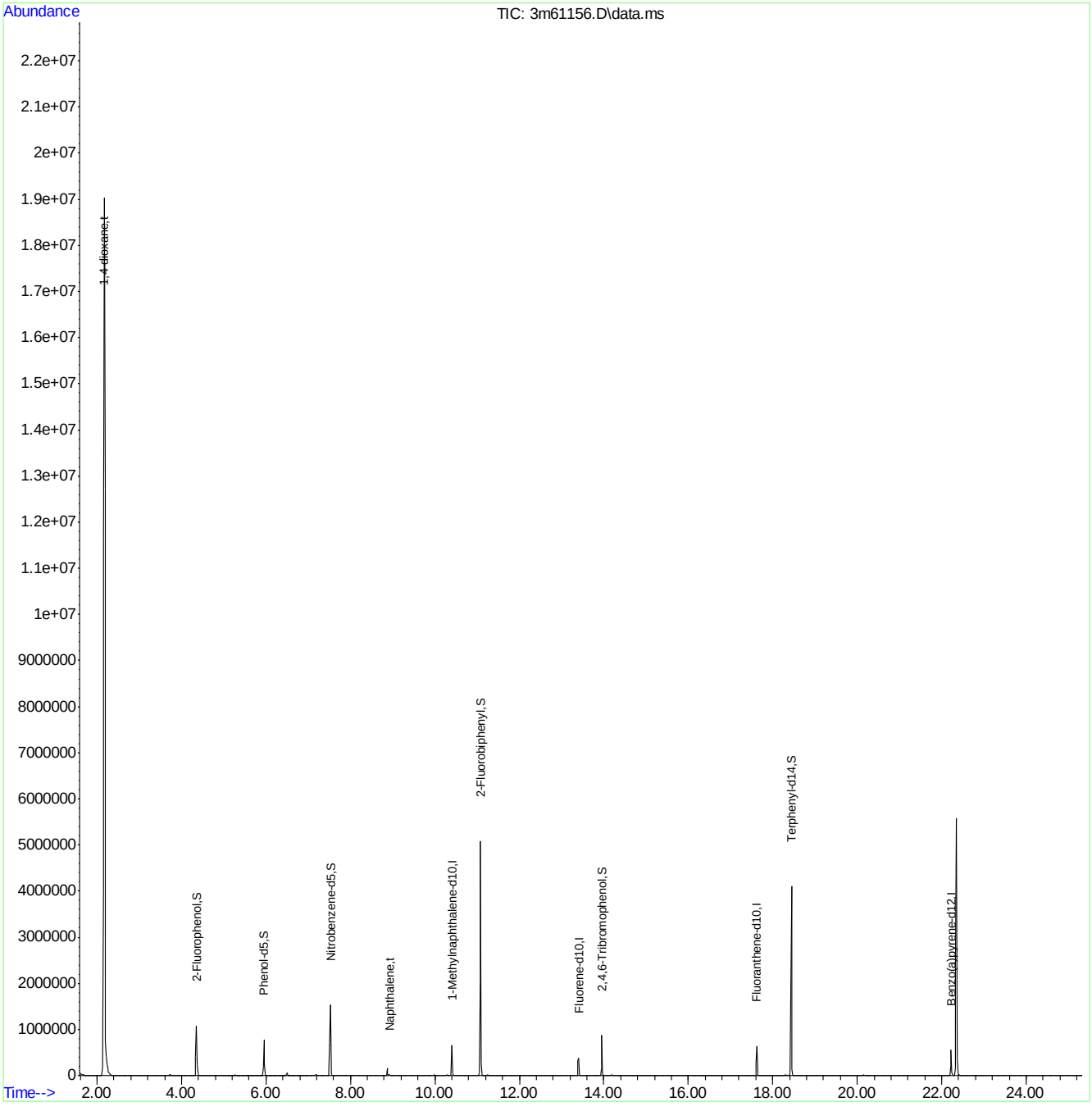
7

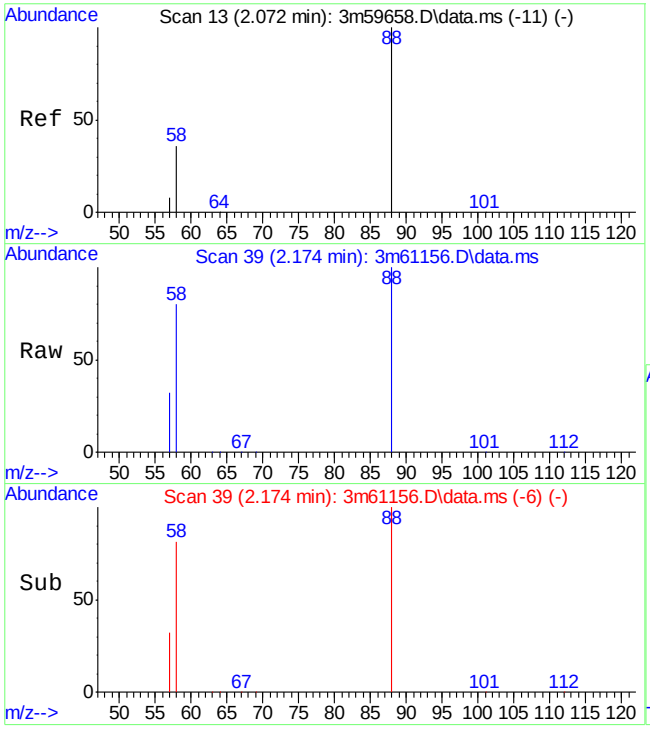
SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61156.D
Acq On : 7 May 2016 4:23 am
Operator : juliusj
Sample : jc19759-4
Misc : op93693a,e3m2875,810
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 07 13:10:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

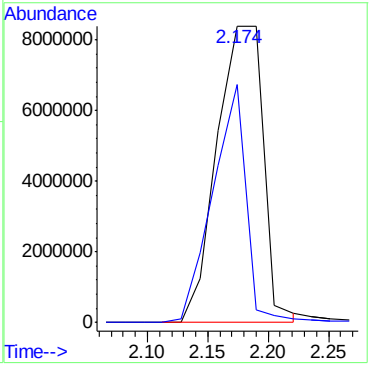


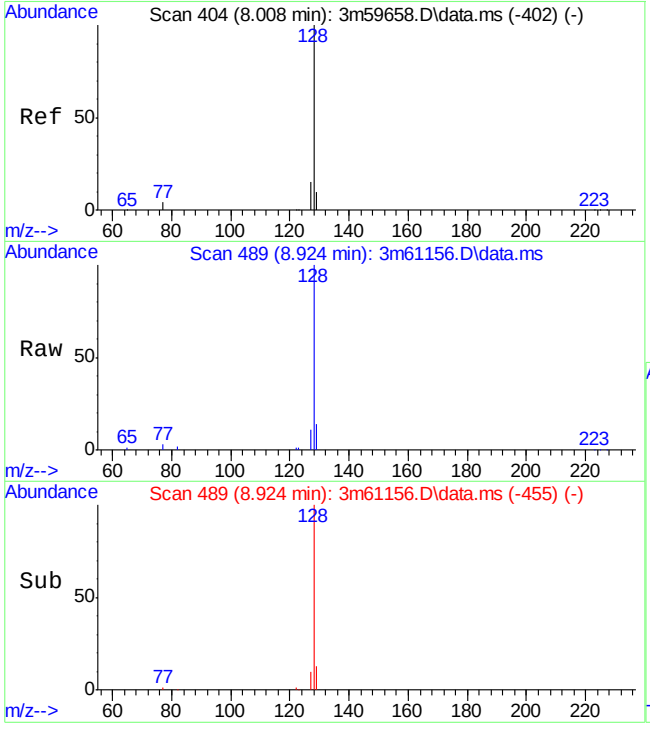


#2
1,4-dioxane
Concen: 1247.91 ppm
RT: 2.174 min Scan# 39
Delta R.T. 0.015 min
Lab File: 3m61156.D
Acq: 7 May 2016 4:23 am

Tgt Ion: 88 Resp:22439157

Ion	Ratio	Lower	Upper
88	100		
58	81.1	9.5	49.5#

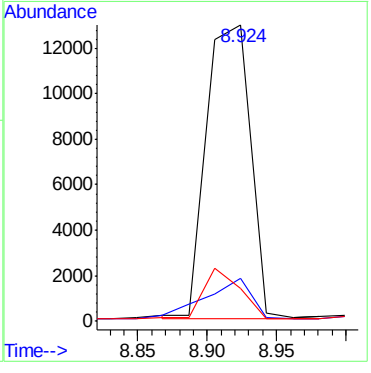




#9
Naphthalene
Concen: 0.15 ppm
RT: 8.924 min Scan# 489
Delta R.T. 0.144 min
Lab File: 3m61156.D
Acq: 7 May 2016 4:23 am

Tgt Ion:128 Resp: 28908

Ion	Ratio	Lower	Upper
128	100		
129	13.2	0.0	42.2
127	10.2	0.0	41.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61157.D
Acq On : 7 May 2016 4:55 am
Operator : juliusj
Sample : jc19759-5
Misc : op93693a,e3m2875,950
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 07 13:11:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.406	150	364226	4.00	ppm	-0.02
14) Fluorene-d10	13.411	176	438880	4.00	ppm	-0.02
21) Fluoranthene-d10	17.623	212	724441	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.228	264	573653	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.353	112	862651	18.93	ppm	-0.07
Spiked Amount 50.000			Recovery = 37.86%			
4) Phenol-d5	5.952	99	923973	12.25	ppm	-0.03
Spiked Amount 50.000			Recovery = 24.50%			
7) Nitrobenzene-d5	7.531	82	1899699	27.10	ppm	-0.04
Spiked Amount 50.000			Recovery = 54.20%			
15) 2-Fluorobiphenyl	11.083	172	4636222	38.44	ppm	-0.04
Spiked Amount 50.000			Recovery = 76.88%			
20) 2,4,6-Tribromophenol	13.957	330	618470	45.03	ppm	0.00
Spiked Amount 50.000			Recovery = 90.06%			
28) Terphenyl-d14	18.442	244	4504390	42.86	ppm	0.00
Spiked Amount 50.000			Recovery = 85.72%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.174	88	31246951	1660.46	ppm #	3
25) Anthracene	15.475	178	259118	1.65	ppm	89

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

7.1.16

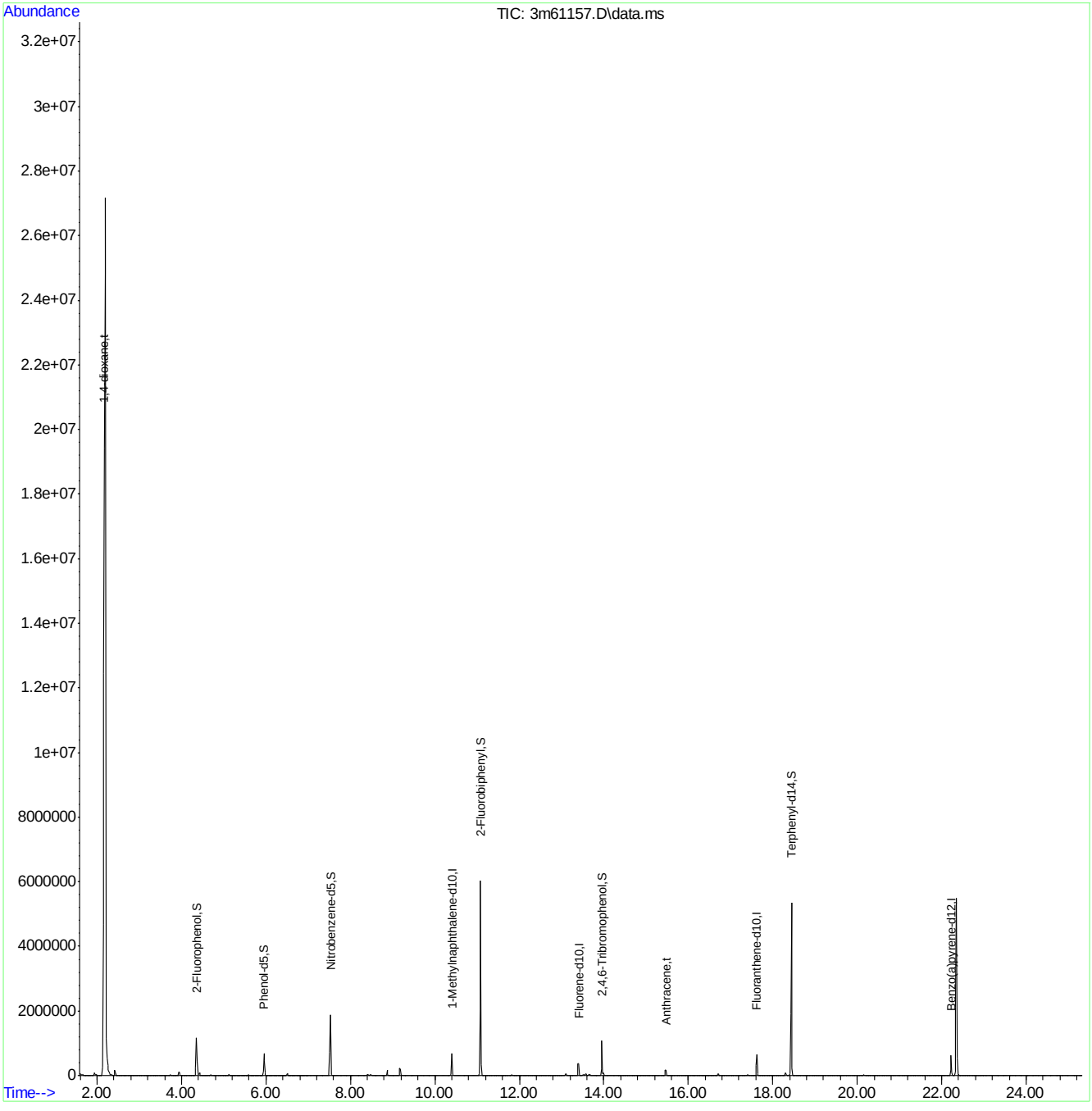
7

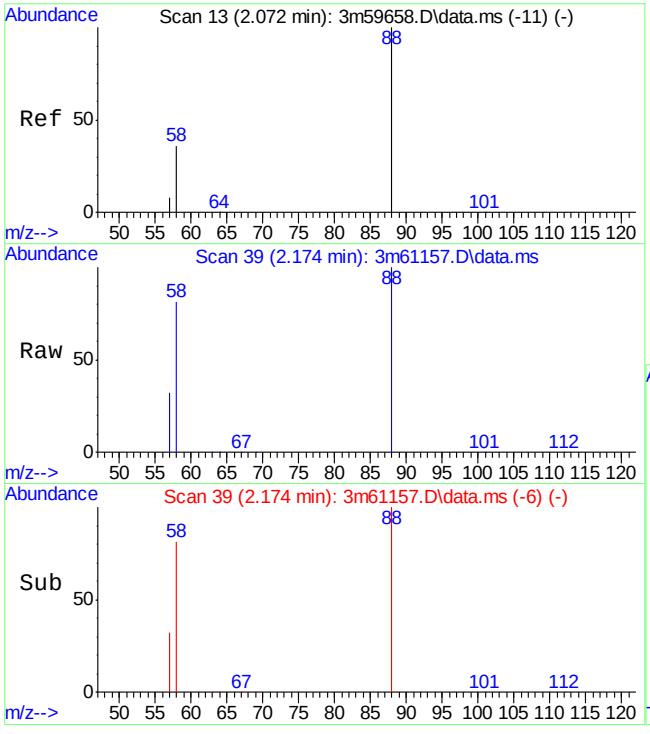
SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61157.D
Acq On : 7 May 2016 4:55 am
Operator : juliusj
Sample : jc19759-5
Misc : op93693a,e3m2875,950
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 07 13:11:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

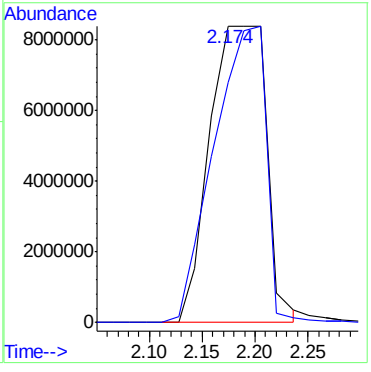


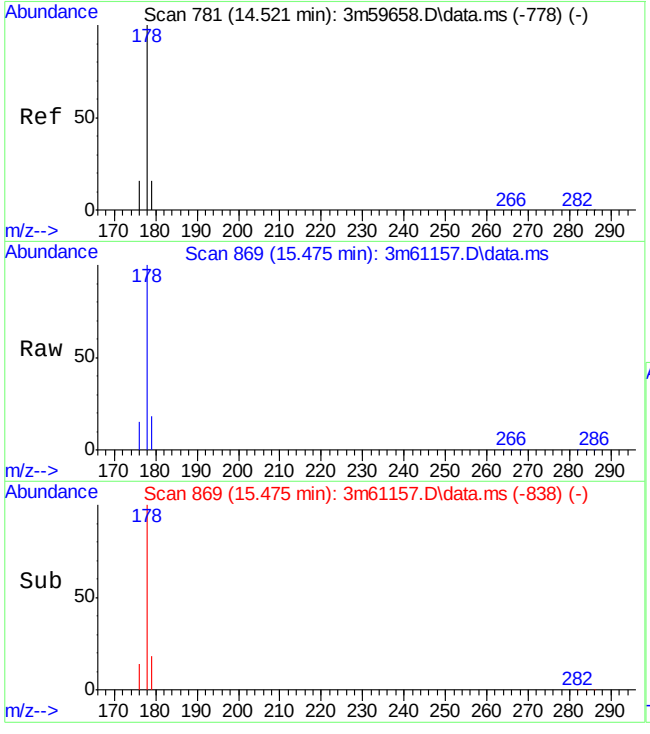


#2
1,4-dioxane
Concen: 1660.46 ppm
RT: 2.174 min Scan# 39
Delta R.T. 0.015 min
Lab File: 3m61157.D
Acq: 7 May 2016 4:55 am

Tgt Ion: 88 Resp:31246951

Ion	Ratio	Lower	Upper
88	100		
58	81.9	9.5	49.5#

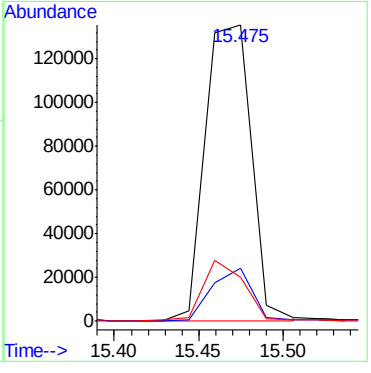




#25
Anthracene
Concen: 1.65 ppm
RT: 15.475 min Scan# 869
Delta R.T. -0.015 min
Lab File: 3m61157.D
Acq: 7 May 2016 4:55 am

Tgt Ion:178 Resp: 259118

Ion	Ratio	Lower	Upper
178	100		
179	17.7	0.0	44.0
176	14.4	0.0	50.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61158.D
Acq On : 7 May 2016 5:27 am
Operator : juliusj
Sample : jc19759-6
Misc : op93693a,e3m2875,800
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 07 13:12:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.406	150	357493	4.00	ppm	-0.02
14) Fluorene-d10	13.411	176	465274	4.00	ppm	-0.02
21) Fluoranthene-d10	17.623	212	723134	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.228	264	573303	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.353	112	893625	19.98	ppm	-0.07
Spiked Amount 50.000			Recovery = 39.96%			
4) Phenol-d5	5.964	99	990653	13.39	ppm	-0.02
Spiked Amount 50.000			Recovery = 26.78%			
7) Nitrobenzene-d5	7.531	82	1970532	28.64	ppm	-0.04
Spiked Amount 50.000			Recovery = 57.28%			
15) 2-Fluorobiphenyl	11.083	172	4548357	35.58	ppm	-0.04
Spiked Amount 50.000			Recovery = 71.16%			
20) 2,4,6-Tribromophenol	13.957	330	555478	38.15	ppm	0.00
Spiked Amount 50.000			Recovery = 76.30%			
28) Terphenyl-d14	18.442	244	4134417	39.41	ppm	0.00
Spiked Amount 50.000			Recovery = 78.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.174	88	22162543	1199.90	ppm #	6
25) Anthracene	15.475	178	16592	0.11	ppm	90

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

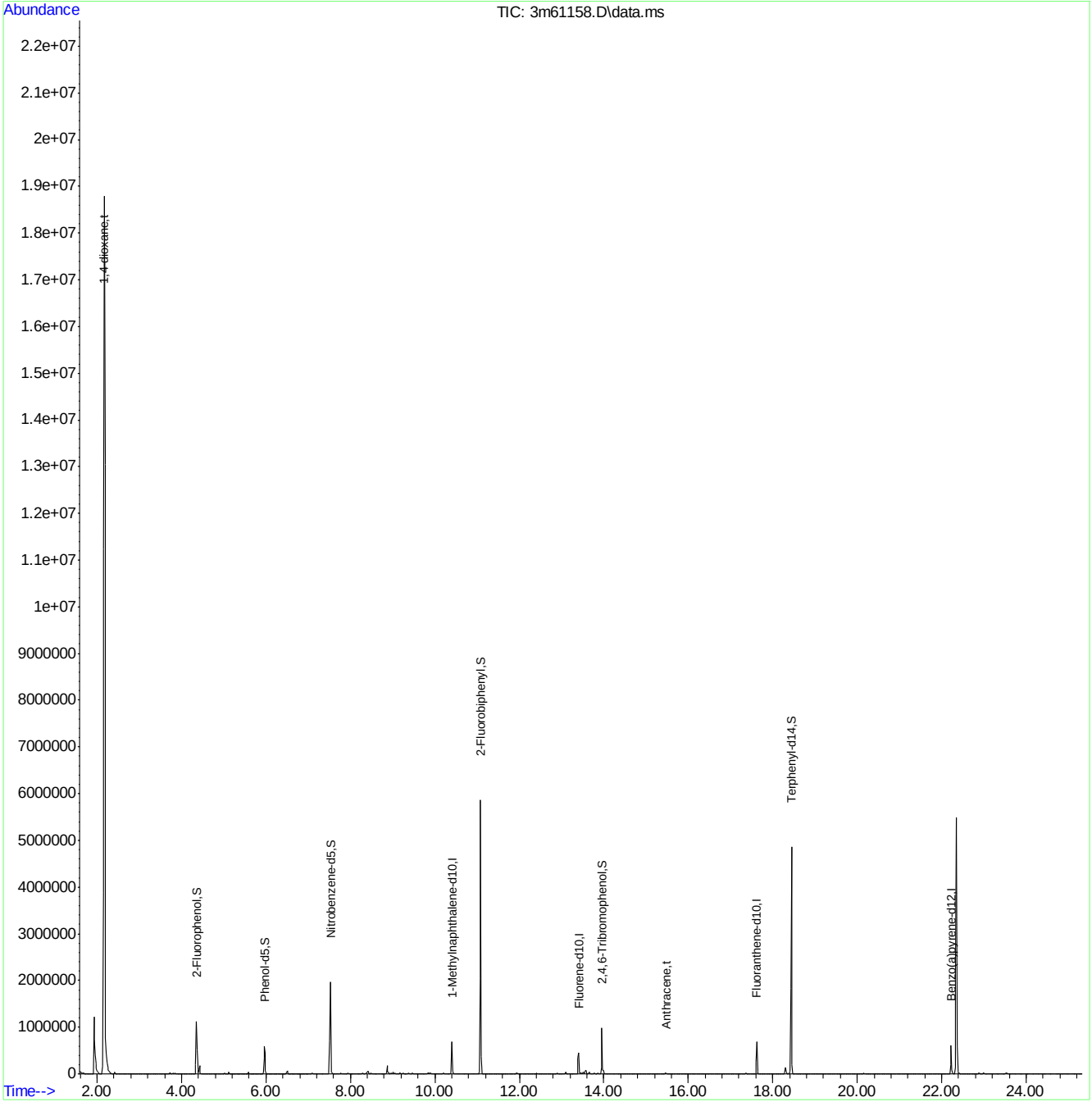
7.1.17

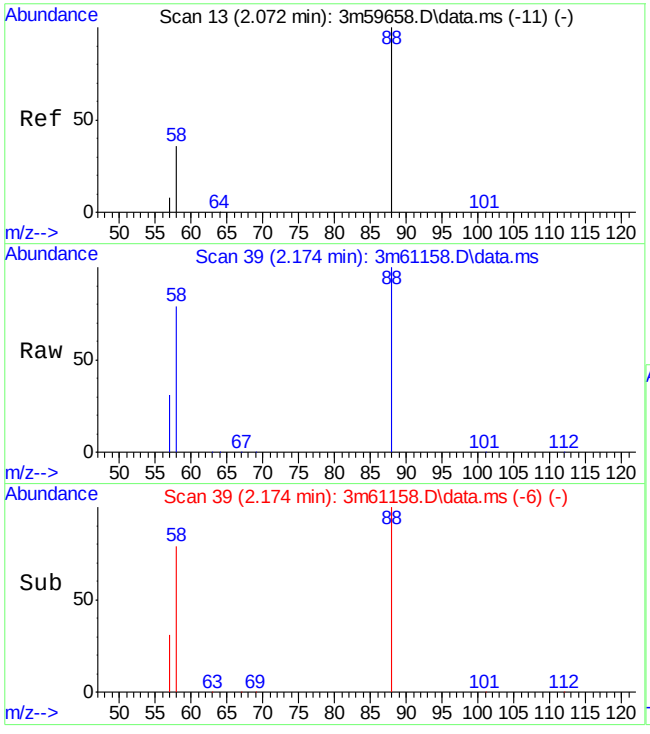
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61158.D
Acq On : 7 May 2016 5:27 am
Operator : juliusj
Sample : jc19759-6
Misc : op93693a,e3m2875,800
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 07 13:12:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

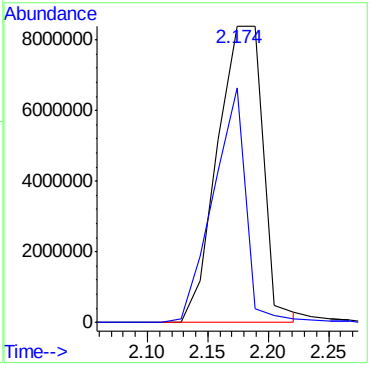


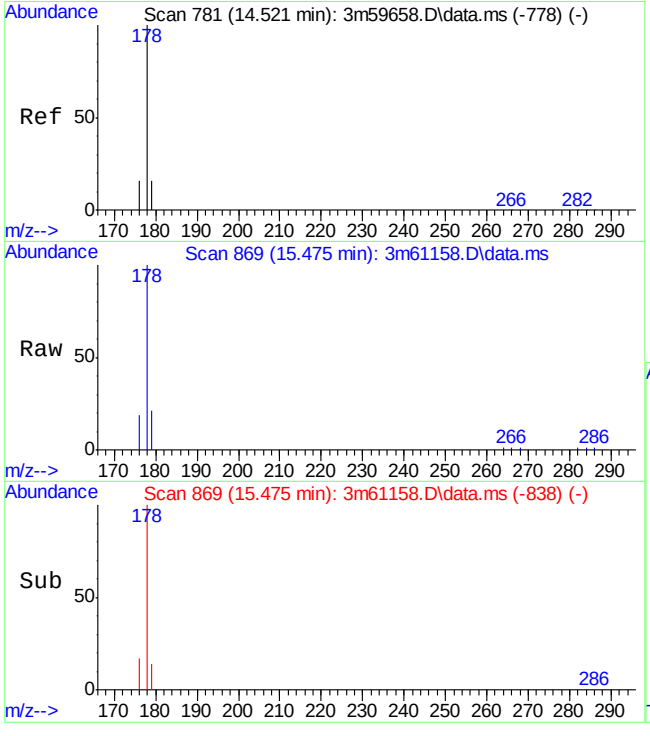


#2
1,4-dioxane
Concen: 1199.90 ppm
RT: 2.174 min Scan# 39
Delta R.T. 0.015 min
Lab File: 3m61158.D
Acq: 7 May 2016 5:27 am

Tgt Ion: 88 Resp:22162543

Ion	Ratio	Lower	Upper
88	100		
58	79.8	9.5	49.5#

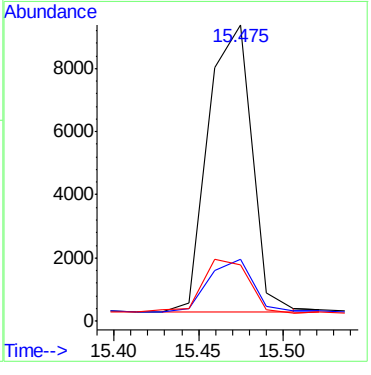




#25
Anthracene
Concen: 0.11 ppm
RT: 15.475 min Scan# 869
Delta R.T. -0.015 min
Lab File: 3m61158.D
Acq: 7 May 2016 5:27 am

Tgt Ion:178 Resp: 16592

Ion	Ratio	Lower	Upper
178	100		
179	18.0	0.0	44.0
176	16.1	0.0	50.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25719.D
Acq On : 6 May 2016 11:56 pm
Operator : seanb1
Sample : op93693-mb1
Misc : op93693,e6p1201,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 07 10:18:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.534	152	214768	40.00 ppm	-0.02
24) Naphthalene-d8	5.598	136	896903	40.00 ppm	-0.05
47) Acenaphthene-d10	7.626	164	530524	40.00 ppm	-0.07
69) Phenanthrene-d10	9.781	188	910318	40.00 ppm	-0.10
83) Chrysene-d12	13.964	240	899685	40.00 ppm	-0.04
92) Perylene-d12	16.082	264	846151	40.00 ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.534	152	214768	40.00 ppm	-0.05
104) Acenaphthene-d10a	7.626	164	530524	40.00 ppm	-0.04
106) Phenanthrene-d10a	9.781	188	910318	40.00 ppm	-0.09
108) Chrysene-d12a	13.964	240	899685	40.00 ppm	-0.07
110) Naphthalene-d8a	5.598	136	896903	40.00 ppm	-0.05
System Monitoring Compounds					
5) 2-Fluorophenol	3.593	112	138019	18.12 ppm	0.00
Spiked Amount 50.000			Recovery = 36.24%		
8) Phenol-d5	4.325	99	120341	12.02 ppm	0.00
Spiked Amount 50.000			Recovery = 24.04%		
25) Nitrobenzene-d5	4.973	82	346867	35.32 ppm	-0.04
Spiked Amount 50.000			Recovery = 70.64%		
51) 2-Fluorobiphenyl	6.764	172	645510	37.88 ppm	-0.08
Spiked Amount 50.000			Recovery = 75.76%		
73) 2,4,6-Tribromophenol	8.754	330	95244	44.83 ppm	-0.09
Spiked Amount 50.000			Recovery = 89.66%		
85) Terphenyl-d14	12.338	244	793696	46.95 ppm	-0.05
Spiked Amount 50.000			Recovery = 93.90%		

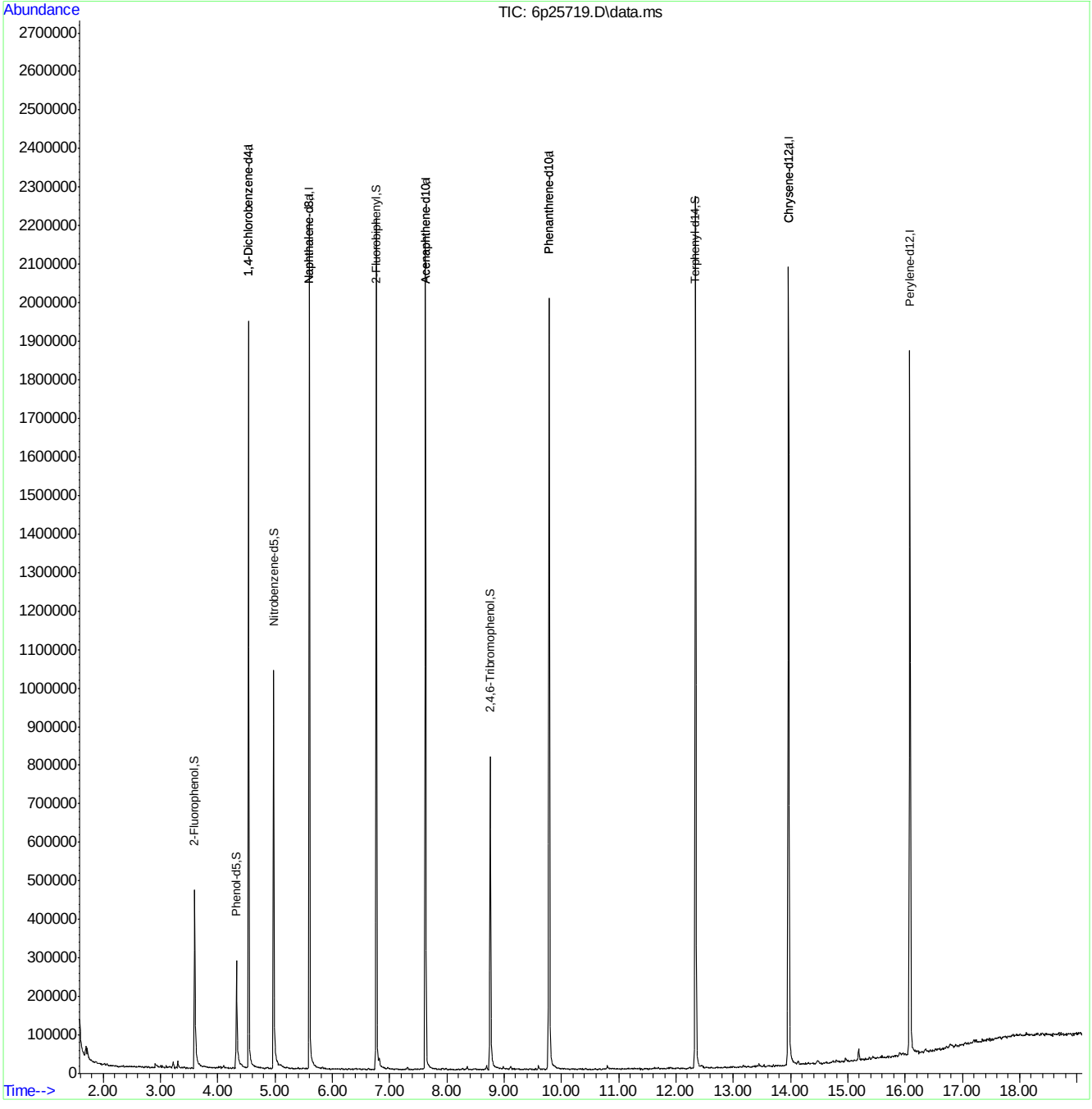
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25719.D
Acq On : 6 May 2016 11:56 pm
Operator : seanb1
Sample : op93693-mb1
Misc : op93693,e6p1201,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 07 10:18:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104679.D Vial: 4
Acq On : 9 May 2016 12:30 pm Operator: linseyk
Sample : op93693-mb1 Inst : MSP
Misc : op93693,ep4614,1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 12:53:07 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.21	152	22928	40.00 ppm	-0.02
24) Naphthalene-d8	5.95	136	82540	40.00 ppm	-0.02
47) Acenaphthene-d10	8.67	164	48682	40.00 ppm	-0.02
69) Phenanthrene-d10	11.03	188	91041	40.00 ppm	-0.02
83) Chrysene-d12	15.72	240	91046	40.00 ppm	-0.03
92) Perylene-d12	18.27	264	77143	40.00 ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.21	152	22928	40.00 ppm	-0.03
104) Phenanthrene-d10b	11.03	188	91041	40.00 ppm	-0.04
106) Chrysene-d12b	15.72	240	91046	40.00 ppm	-0.04
108) Naphthalene-d8b	5.95	136	82540	40.00 ppm	-0.03
110) Acenaphthene-d10b	8.67	164	48682	40.00 ppm	-0.04

System Monitoring Compounds					
5) 2-Fluorophenol	2.80	112	15532	19.61 ppm	0.00
Spiked Amount 50.000			Recovery = 39.22%		
8) Phenol-d5	3.76	99	13173	12.67 ppm	0.00
Spiked Amount 50.000			Recovery = 25.34%		
25) Nitrobenzene-d5	4.93	82	33057	36.74 ppm	-0.02
Spiked Amount 50.000			Recovery = 73.48%		
51) 2-Fluorobiphenyl	7.65	172	58701	35.03 ppm	-0.02
Spiked Amount 50.000			Recovery = 70.06%		
73) 2,4,6-Tribromophenol	9.93	330	9803	39.21 ppm	-0.02
Spiked Amount 50.000			Recovery = 78.42%		
85) Terphenyl-d14	13.85	244	74504	40.94 ppm	-0.03
Spiked Amount 50.000			Recovery = 81.88%		

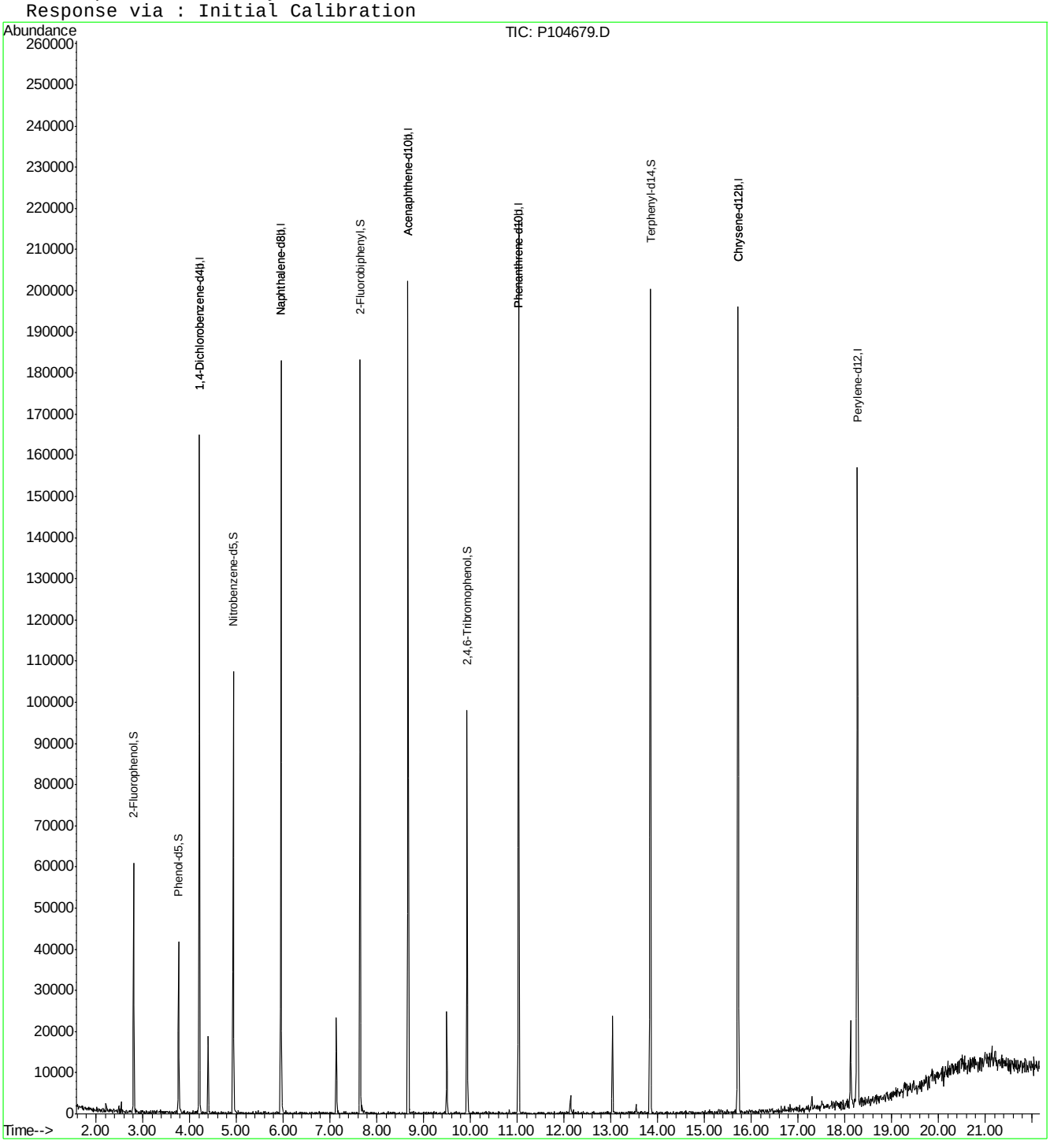
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
P104679.D MP4600.M Mon May 09 13:48:25 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104679.D Vial: 4
Acq On : 9 May 2016 12:30 pm Operator: linseyk
Sample : op93693-mb1 Inst : MSP
Misc : op93693,ep4614,1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 13:48 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61149.D
Acq On : 7 May 2016 12:38 am
Operator : juliusj
Sample : op93693a-mb1
Misc : op93693a,e3m2875,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 07 12:49:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.406	150	347873	4.00	ppm	-0.02
14) Fluorene-d10	13.411	176	426025	4.00	ppm	-0.02
21) Fluoranthene-d10	17.623	212	688631	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.228	264	566239	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.353	112	711522	16.35	ppm	-0.07
Spiked Amount 50.000			Recovery = 32.70%			
4) Phenol-d5	5.952	99	715556	9.94	ppm	-0.03
Spiked Amount 50.000			Recovery = 19.88%			
7) Nitrobenzene-d5	7.512	82	1545719	23.08	ppm	-0.06
Spiked Amount 50.000			Recovery = 46.16%			
15) 2-Fluorobiphenyl	11.083	172	3861412	32.99	ppm	-0.04
Spiked Amount 50.000			Recovery = 65.98%			
20) 2,4,6-Tribromophenol	13.957	330	492737	36.96	ppm	0.00
Spiked Amount 50.000			Recovery = 73.92%			
28) Terphenyl-d14	18.442	244	4246721	42.51	ppm	0.00
Spiked Amount 50.000			Recovery = 85.02%			

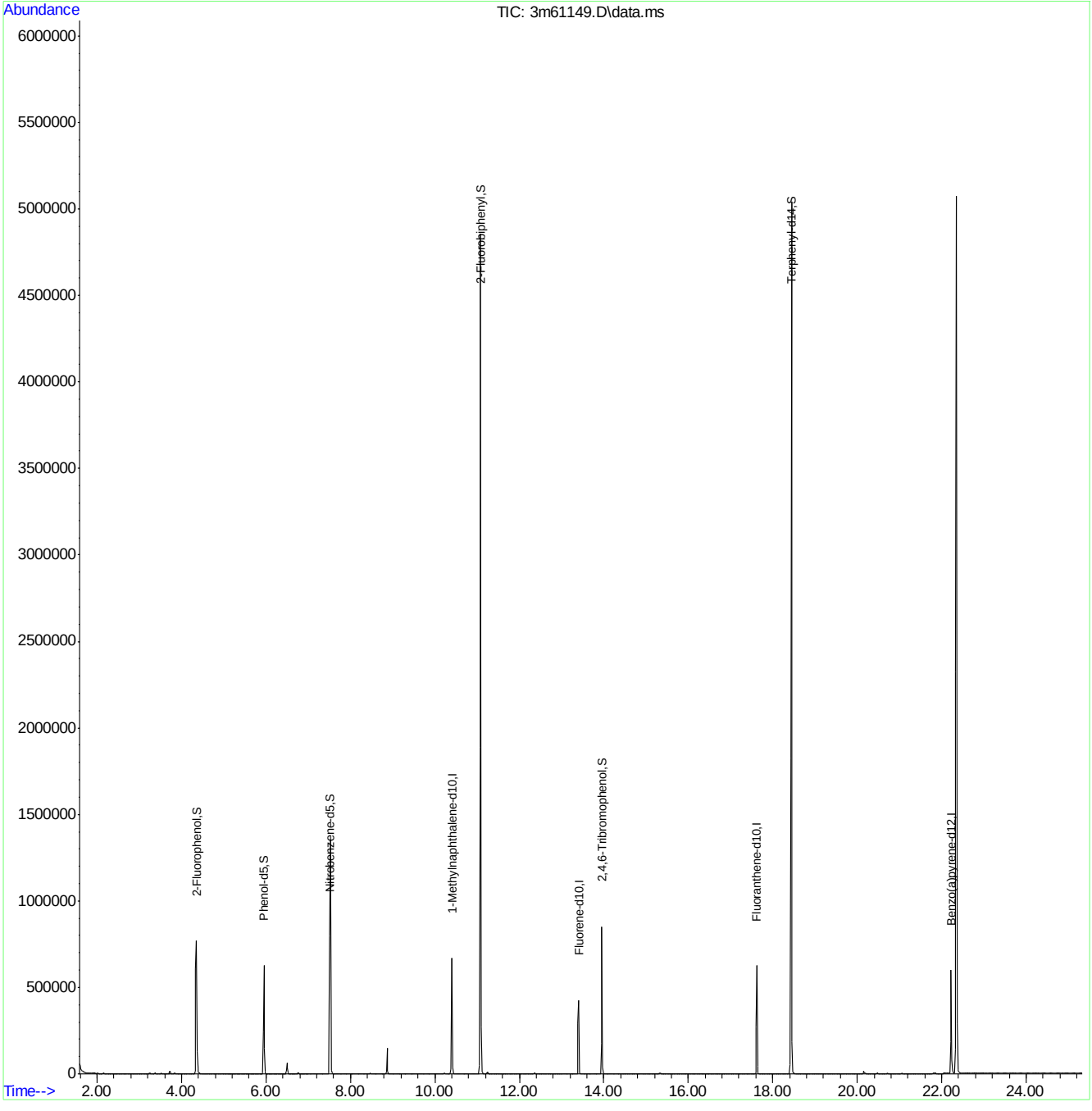
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61149.D
Acq On : 7 May 2016 12:38 am
Operator : juliusj
Sample : op93693a-mb1
Misc : op93693a,e3m2875,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 07 12:49:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration



M3M2855SIM.M Sat May 07 12:49:41 2016 RPT1 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/09/16 09:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25724.D
Acq On : 7 May 2016 2:08 am
Operator : seanb1
Sample : op93693-bs1
Misc : op93693,e6p1201,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 07 10:25:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.534	152	257684	40.00	ppm	-0.02
24) Naphthalene-d8	5.598	136	1065704	40.00	ppm	-0.05
47) Acenaphthene-d10	7.620	164	640439	40.00	ppm	-0.08
69) Phenanthrene-d10	9.781	188	1058417	40.00	ppm	-0.10
83) Chrysene-d12	13.964	240	1085880	40.00	ppm	-0.04
92) Perylene-d12	16.082	264	823357	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.534	152	257684	40.00	ppm	-0.05
104) Acenaphthene-d10a	7.620	164	640439	40.00	ppm	-0.05
106) Phenanthrene-d10a	9.781	188	1058417	40.00	ppm	-0.09
108) Chrysene-d12a	13.964	240	1085880	40.00	ppm	-0.07
110) Naphthalene-d8a	5.598	136	1065704	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.593	112	176200	19.28	ppm	0.00
Spiked Amount 50.000			Recovery = 38.56%			
8) Phenol-d5	4.320	99	166006	13.82	ppm	0.00
Spiked Amount 50.000			Recovery = 27.64%			
25) Nitrobenzene-d5	4.972	82	402341	34.48	ppm	-0.04
Spiked Amount 50.000			Recovery = 68.96%			
51) 2-Fluorobiphenyl	6.764	172	779634	37.90	ppm	-0.08
Spiked Amount 50.000			Recovery = 75.80%			
73) 2,4,6-Tribromophenol	8.754	330	125174	50.67	ppm	-0.09
Spiked Amount 50.000			Recovery = 101.34%			
85) Terphenyl-d14	12.332	244	946761	46.40	ppm	-0.06
Spiked Amount 50.000			Recovery = 92.80%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.063	88	55456	12.00	ppm	95
3) Pyridine	2.400	79	106300	9.13	ppm	95
4) N-Nitrosodimethylamine	2.368	74	100153	14.03	ppm #	67
6) Indene	4.732	116	559511	35.26	ppm	98
7) Cumene	3.935	105	714459	28.78	ppm	97
9) Phenol	4.331	94	190093	13.89	ppm	96
10) Aniline	4.299	93	357643	25.07	ppm	86
11) bis(2-Chloroethyl)ether	4.341	93	309243	31.21	ppm	98
12) 2-Chlorophenol	4.400	128	299310	30.74	ppm	94
13) Decane	4.416	43	286008	24.73	ppm	97
14) 1,3-Dichlorobenzene	4.491	146	314933	30.59	ppm	99
15) 1,4-Dichlorobenzene	4.545	146	328219	31.70	ppm	99
16) Benzyl alcohol	4.657	108	191090	29.80	ppm	100
17) 1,2-Dichlorobenzene	4.662	146	315966	33.19	ppm	99
18) Acetophenone	4.849	105	485756	35.81	ppm	78
19) 2-Methylphenol	4.764	108	260886	30.78	ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.742	121	99482	29.79	ppm #	81
21) 3&4-Methylphenol	4.887	108	258541	29.08	ppm	98
22) n-Nitroso-di-n-propyla...	4.849	70	270073	33.83	ppm	91
23) Hexachloroethane	4.924	201	101401	27.67	ppm	93
26) Nitrobenzene	4.989	77	398903	32.51	ppm	96
27) Quinoline	5.951	129	747719	40.10	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25724.D
Acq On : 7 May 2016 2:08 am
Operator : seanb1
Sample : op93693-bs1
Misc : op93693,e6p1201,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 07 10:25:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.181	82	701405	34.17	ppm		93
29) 2-Nitrophenol	5.256	139	184127	38.16	ppm		98
30) 2,4-Dimethylphenol	5.309	107	363323	39.89	ppm		99
31) Benzoic acid	5.438	105	119344	16.63	ppm		98
32) bis(2-Chloroethoxy)met...	5.368	93	367038	30.33	ppm		99
33) 2,4-Dichlorophenol	5.491	162	278282	36.40	ppm		98
34) 2,6-Dichlorophenol	5.689	162	273347	36.25	ppm		98
36) 1,2,4-Trichlorobenzene	5.545	180	258801	29.22	ppm		95
38) Naphthalene	5.614	128	965731	34.01	ppm		99
39) 4-Chloroaniline	5.678	127	304510	26.54	ppm		95
40) 2,3-Dichloroaniline	6.668	161	353178	37.88	ppm		98
41) Caprolactam	6.037	55	48376	10.18	ppm		90
42) Hexachlorobutadiene	5.732	225	140138	28.11	ppm		99
43) 4-Chloro-3-methylphenol	6.219	107	380564	42.13	ppm		98
44) 2-Methylnaphthalene	6.331	141	579156	37.89	ppm		99
45) 1-Methylnaphthalene	6.443	141	615166	38.60	ppm		97
46) Dimethylnaphthalene	7.080	156	643428	36.47	ppm		89
48) Hexachlorocyclopentadiene	6.513	237	232771	45.22	ppm		99
49) 2,4,6-Trichlorophenol	6.684	196	218583	39.92	ppm		94
50) 2,4,5-Trichlorophenol	6.748	196	225794	38.07	ppm		91
52) 2-Chloronaphthalene	6.903	162	641719	35.25	ppm		95
53) Biphenyl	6.887	154	897620	36.44	ppm		99
54) 2-Nitroaniline	7.058	65	304644	46.04	ppm		93
55) Dimethylphthalate	7.294	163	934310	44.57	ppm		99
56) Acenaphthylene	7.433	152	1129494	40.53	ppm		99
57) 2,6-Dinitrotoluene	7.374	165	209283	50.50	ppm		96
58) 3-Nitroaniline	7.604	138	193705	38.66	ppm		91
59) Acenaphthene	7.668	153	757900	40.20	ppm		97
60) 2,4-Dinitrophenol	7.764	184	226301	85.52	ppm	#	79
61) 4-Nitrophenol	7.962	109	79598	25.63	ppm		80
62) Dibenzofuran	7.909	168	1063906	42.44	ppm		91
63) 2,4-Dinitrotoluene	7.936	165	304301	55.76	ppm		93
64) 2,3,4,6-Tetrachlorophenol	8.117	232	178933	35.55	ppm		92
65) Diethylphthalate	8.278	149	1024434	50.68	ppm		95
66) Fluorene	8.390	166	924590	43.99	ppm		99
67) 4-Chlorophenyl-phenyle...	8.406	204	414281	37.81	ppm		81
68) 4-Nitroaniline	8.476	138	258136	51.82	ppm		86
70) 4,6-Dinitro-2-methylph...	8.529	198	169387	45.88	ppm	#	44
71) n-Nitrosodiphenylamine	8.594	169	653399	44.99	ppm		98
72) 1,2-Diphenylhydrazine	8.642	77	1030878	44.26	ppm		97
74) 4-Bromophenyl-phenylether	9.128	248	242640	42.90	ppm		88
75) Hexachlorobenzene	9.214	284	259384	44.86	ppm		91
76) Pentachlorophenol	9.546	266	119693	33.23	ppm		97
77) Phenanthrene	9.818	178	1337586	43.85	ppm		99
78) Anthracene	9.899	178	1300068	42.97	ppm		98
79) Carbazole	10.187	167	1326474	49.84	ppm		98
80) Di-n-butylphthalate	10.797	149	1746877	55.43	ppm		99
81) Fluoranthene	11.674	202	1457397	44.11	ppm		98
82) Octadecane	9.738	57	617022	42.94	ppm		97
84) Pyrene	12.022	202	1516724	44.44	ppm		100

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25724.D
Acq On : 7 May 2016 2:08 am
Operator : seanb1
Sample : op93693-bs1
Misc : op93693,e6p1201,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 07 10:25:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration

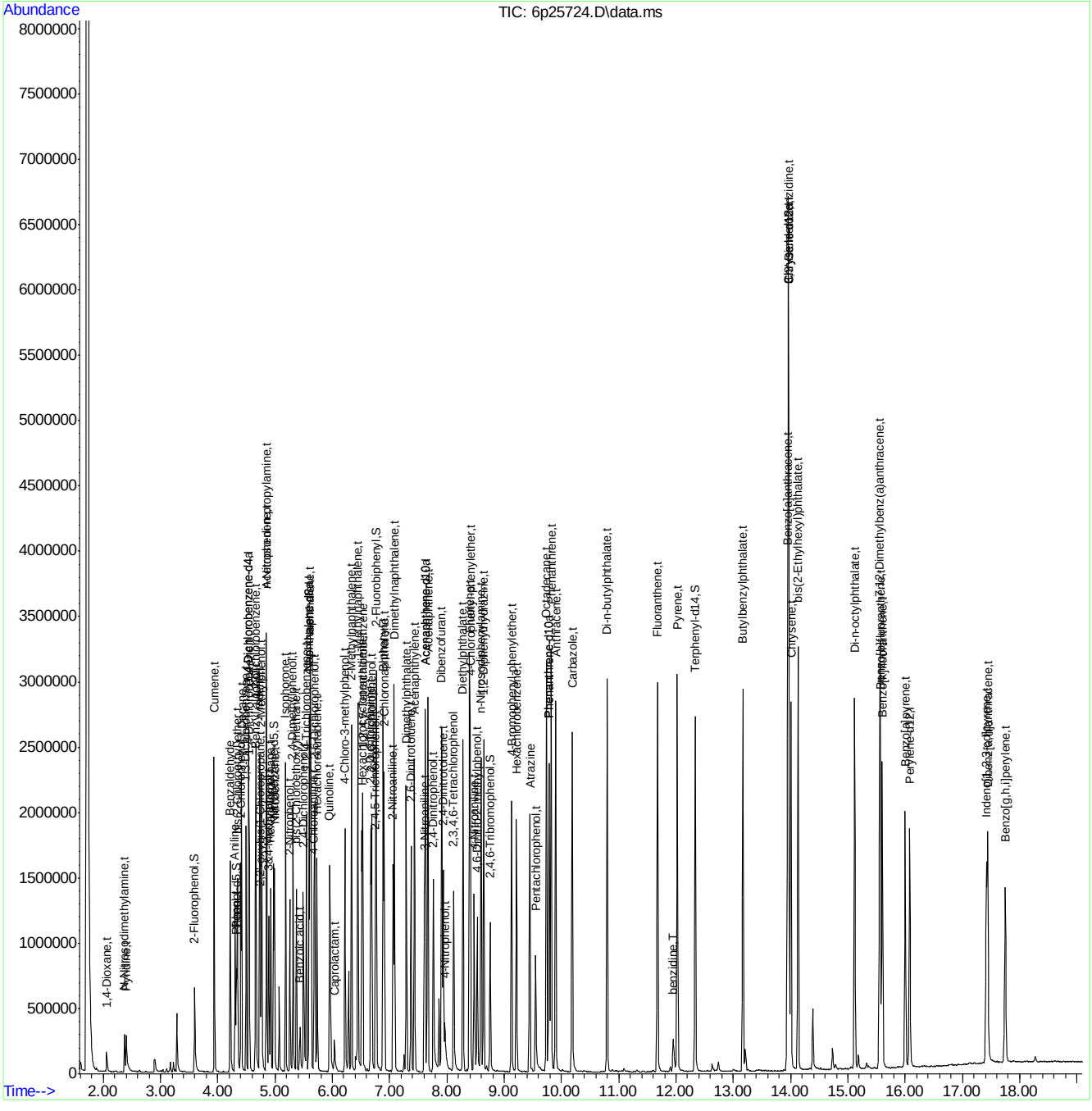
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	Butylbenzylphthalate	13.167	149	766609	57.24	ppm	97
88)	Benzo[a]anthracene	13.947	228	1296673	42.18	ppm	99
89)	3,3'-Dichlorobenzidine	13.964	252	853552	85.94	ppm	100
90)	Chrysene	14.006	228	1193923	38.73	ppm	99
91)	bis(2-Ethylhexyl)phtha...	14.129	149	1032407	56.19	ppm	97
93)	Di-n-octylphthalate	15.119	149	1681658	66.59	ppm	99
94)	Benzo[b]fluoranthene	15.568	252	1187384	48.59	ppm	98
95)	Benzo[k]fluoranthene	15.606	252	1078910	46.42	ppm	97
96)	Benzo[a]pyrene	16.001	252	933941	43.92	ppm	97
97)	Indeno[1,2,3-cd]pyrene	17.419	276	809435m	40.42	ppm	
99)	Dibenz[a,h]anthracene	17.440	278	868760	39.98	ppm	99
100)	7,12-Dimethylbenz(a)an...	15.557	256	503405	51.64	ppm	98
101)	Benzo[g,h,i]perylene	17.750	276	787327	35.90	ppm	98
103)	Benzaldehyde	4.213	105	244523	30.65	ppm	95
105)	1,2,4,5-Tetrachloroben...	6.529	216	295882	29.15	ppm	99
107)	Atrazine	9.449	215	141173	49.41	ppm	89
109)	benzidine	11.947	184	145501	10.68	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25724.D
Acq On : 7 May 2016 2:08 am
Operator : seanb1
Sample : op93693-bs1
Misc : op93693,e6p1201,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 07 10:25:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Manual Integration Approval Summary

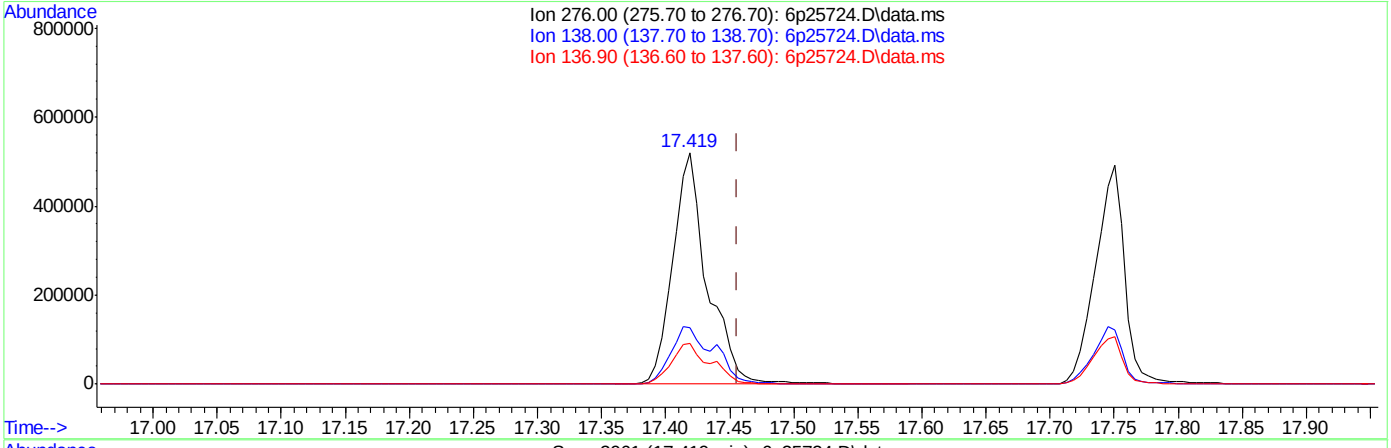
Sample Number:	OP93693-BS1	**Method:**	SW846 8270D
Lab FileID:	6P25724.D	**Analyst approved:**	05/07/16 10:45 Kristi Schollenberger
Injection Time:	05/07/16 02:08	**Supervisor approved:**	05/09/16 09:11 Nina Pandya

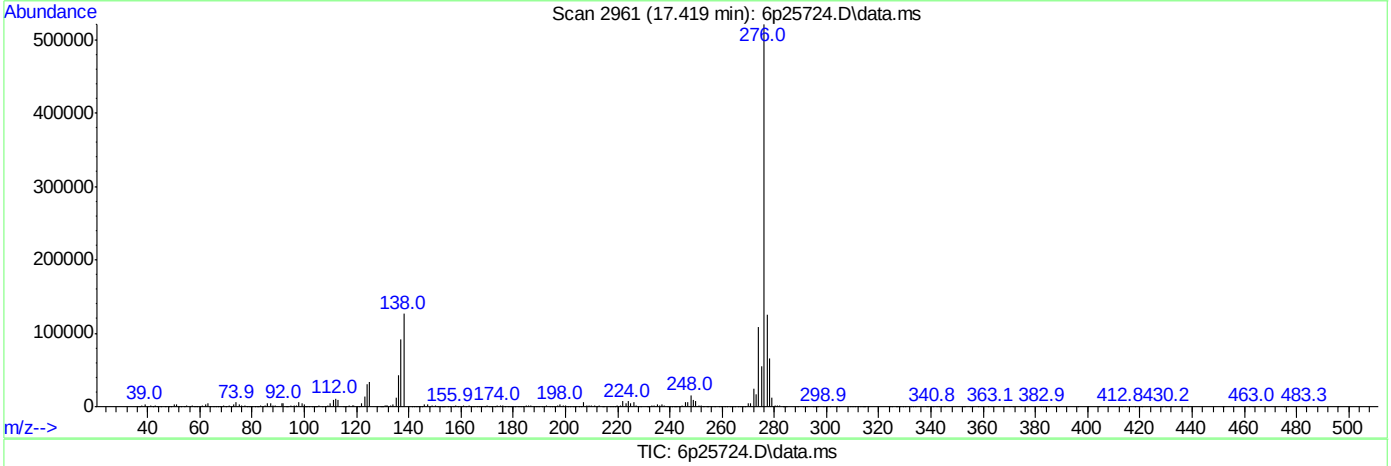
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.42	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25724.D
Acq On : 7 May 2016 2:08 am
Operator : seanb1
Sample : op93693-bs1
Misc : op93693,e6p1201,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 07 10:23:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration





TIC: 6p25724.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.419min (-0.037) 48.97ppm

response 980811

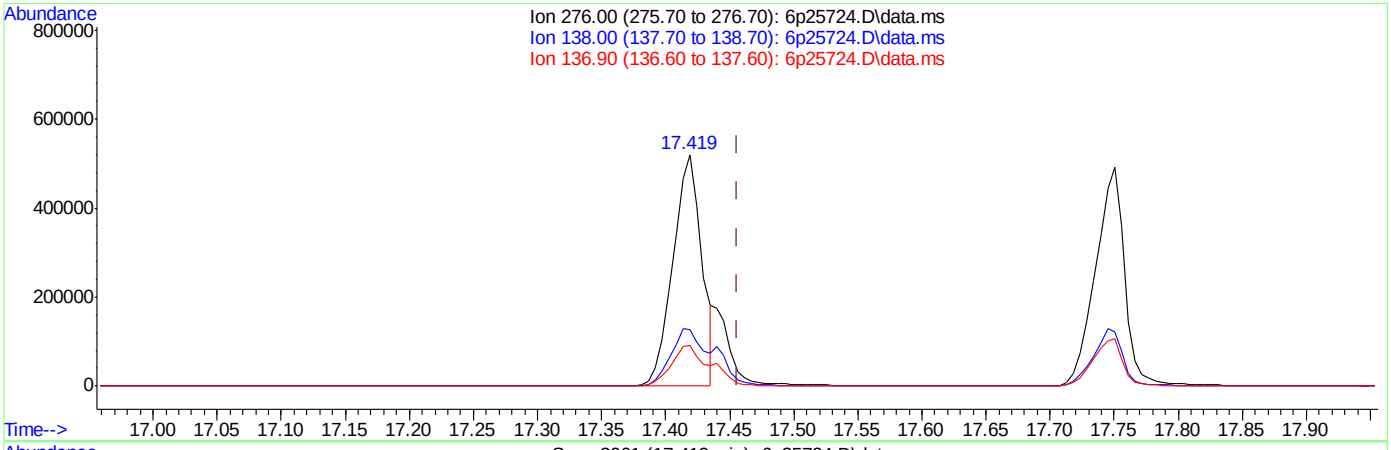
Ion	Exp%	Act%
276.00	100	100
138.00	23.50	24.20
136.90	16.60	17.39
0.00	0.00	0.00

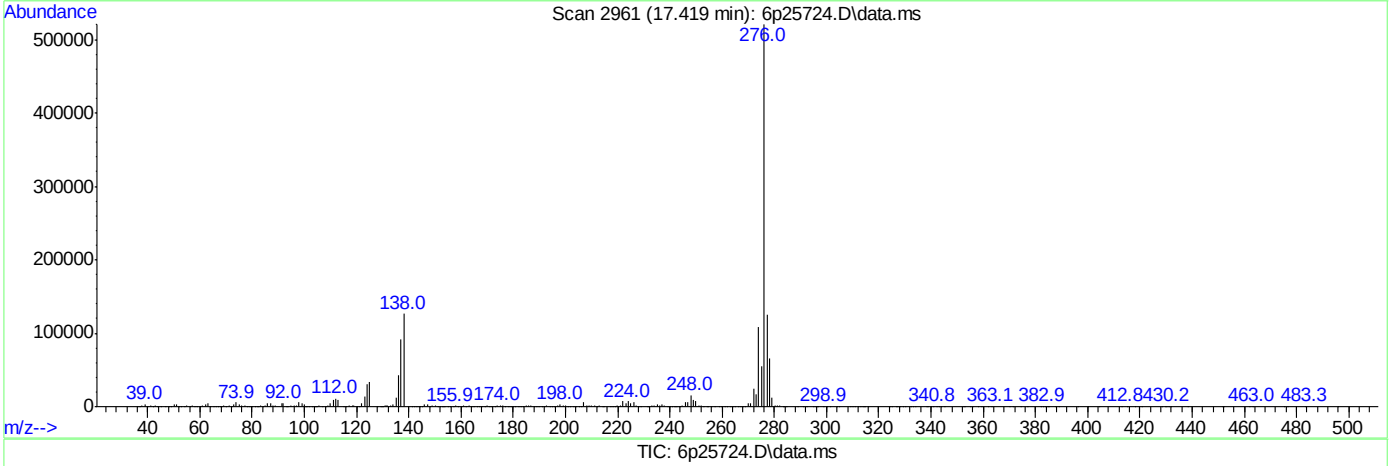
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25724.D
Acq On : 7 May 2016 2:08 am
Operator : seanb1
Sample : op93693-bs1
Misc : op93693,e6p1201,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 07 10:23:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration





TIC: 6p25724.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.419min (-0.037) 40.42ppm m

response 809435

Ion	Exp%	Act%
276.00	100	100
138.00	23.50	24.25
136.90	16.60	17.46
0.00	0.00	0.00

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61150.D
Acq On : 7 May 2016 1:10 am
Operator : juliusj
Sample : op93693a-bs12
Misc : op93693a,e3m2875,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 07 12:50:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.406	150	382357	4.00	ppm	-0.02
14) Fluorene-d10	13.411	176	449185	4.00	ppm	-0.02
21) Fluoranthene-d10	17.623	212	730954	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.228	264	580793	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.353	112	847138	17.71	ppm	-0.07
Spiked Amount 50.000			Recovery = 35.42%			
4) Phenol-d5	5.952	99	872482	11.02	ppm	-0.03
Spiked Amount 50.000			Recovery = 22.04%			
7) Nitrobenzene-d5	7.531	82	1902123	25.84	ppm	-0.04
Spiked Amount 50.000			Recovery = 51.68%			
15) 2-Fluorobiphenyl	11.083	172	4500965	36.47	ppm	-0.04
Spiked Amount 50.000			Recovery = 72.94%			
20) 2,4,6-Tribromophenol	13.957	330	573312	40.78	ppm	0.00
Spiked Amount 50.000			Recovery = 81.56%			
28) Terphenyl-d14	18.442	244	4735914	44.66	ppm	0.00
Spiked Amount 50.000			Recovery = 89.32%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.159	88	17424	0.88	ppm	87
5) Phenol	5.976	94	130183	1.53	ppm #	68
6) bis(2-Chloroethyl)ether	6.085	93	34114	0.53	ppm	81
8) Nitrobenzene	7.550	77	45825	0.57	ppm #	59
9) Naphthalene	8.905	128	114341	0.54	ppm	90
10) Hexachlorobutadiene	9.207	225	20391	0.55	ppm	80
11) 2-Methylnaphthalene	10.283	141	72176	0.65	ppm #	70
13) Hexachlorocyclopentadiene	10.632	237	9745	0.33	ppm #	73
16) Acenaphthylene	12.057	152	113342	0.73	ppm	94
17) Acenaphthene	12.413	153	78824	0.76	ppm	91
18) 4,6-dinitro-2-methylph...	13.637	198	81719	5.48	ppm	92
19) Fluorene	13.449	166	94475	0.76	ppm	98
22) Hexachlorobenzene	14.547	284	26707	0.77	ppm	99
23) Pentachlorophenol	14.980	266	109941	4.61	ppm	100
24) Phenanthrene	15.367	178	144676	0.81	ppm	97
25) Anthracene	15.459	178	128032	0.81	ppm	98
26) Fluoranthene	17.654	202	162126	0.72	ppm	89
27) Pyrene	18.041	202	170440	0.82	ppm	91
29) Benzo[a]anthracene	20.126	228	138650	0.69	ppm	94
30) Chrysene	20.188	228	150209	0.78	ppm	92
32) Benzo[b]fluoranthene	21.795	252	150701	0.78	ppm	96
33) Benzo[k]fluoranthene	21.841	252	106234	0.59	ppm	94
34) Benzo[a]pyrene	22.259	252	117126	0.65	ppm	86
35) Indeno[1,2,3-cd]pyrene	23.712	276	121618	0.66	ppm	98
36) Dibenz[a,h]anthracene	23.749	278	88217	0.58	ppm	69
37) Benzo[g,h,i]perylene	24.069	276	100682	0.63	ppm	92

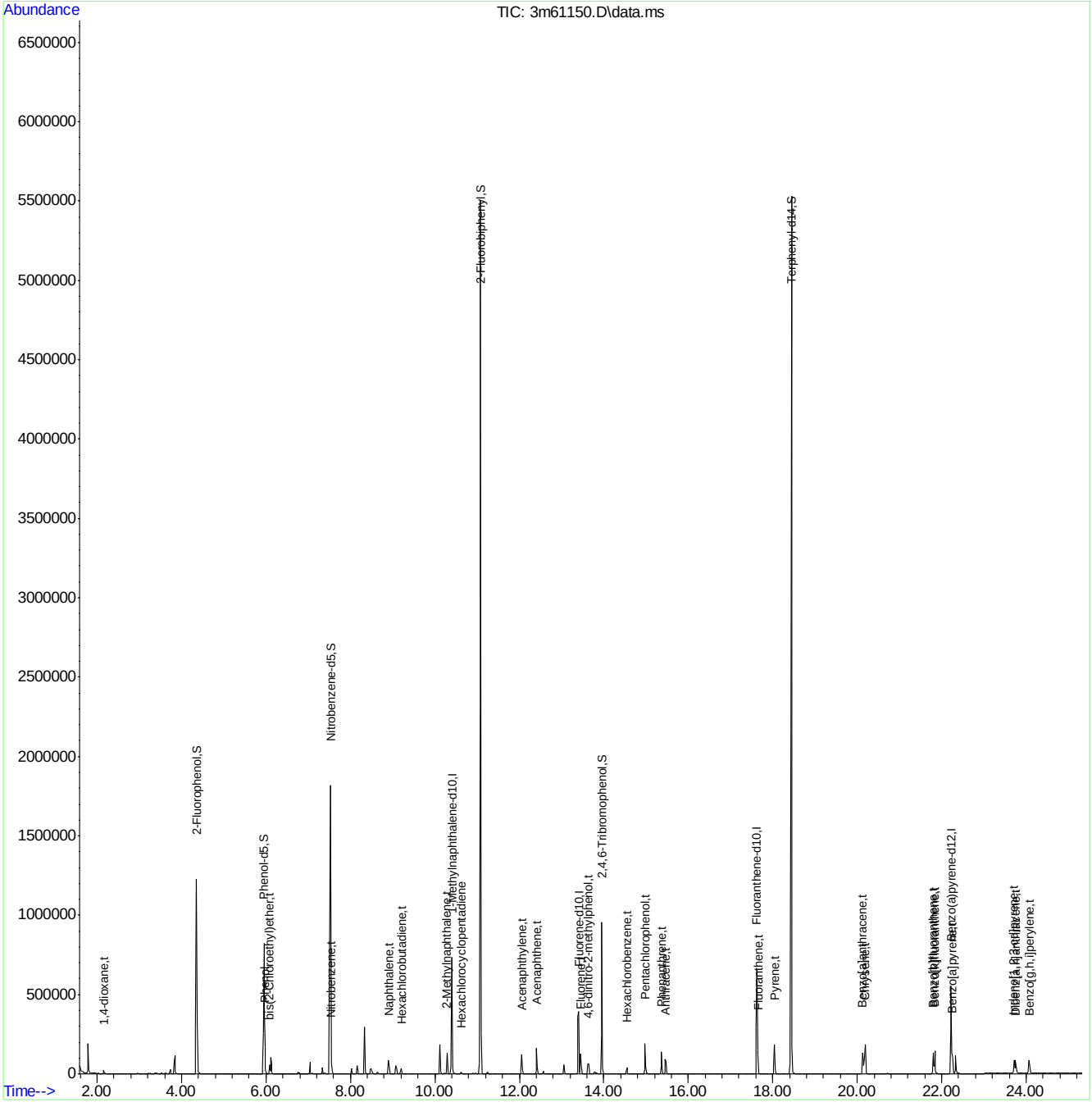
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61150.D
Acq On : 7 May 2016 1:10 am
Operator : juliusj
Sample : op93693a-bs12
Misc : op93693a,e3m2875,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 07 12:50:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/09/16 16:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25725.D
Acq On : 7 May 2016 2:34 am
Operator : seanb1
Sample : op93693-ms
Misc : op93693,e6p1201,475
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 07 10:26:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.534	152	268483	40.00	ppm	-0.02
24) Naphthalene-d8	5.598	136	1067967	40.00	ppm	-0.05
47) Acenaphthene-d10	7.626	164	628403	40.00	ppm	-0.07
69) Phenanthrene-d10	9.781	188	1018395	40.00	ppm	-0.10
83) Chrysene-d12	13.964	240	1009419	40.00	ppm	-0.04
92) Perylene-d12	16.076	264	787155	40.00	ppm	-0.05
102) 1,4-Dichlorobenzene-d4a	4.534	152	268483	40.00	ppm	-0.05
104) Acenaphthene-d10a	7.626	164	628403	40.00	ppm	-0.04
106) Phenanthrene-d10a	9.781	188	1018395	40.00	ppm	-0.09
108) Chrysene-d12a	13.964	240	1009419	40.00	ppm	-0.07
110) Naphthalene-d8a	5.598	136	1067967	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.598	112	255245	26.80	ppm	0.00
Spiked Amount 50.000			Recovery = 53.60%			
8) Phenol-d5	4.320	99	299027	23.89	ppm	0.00
Spiked Amount 50.000			Recovery = 47.78%			
25) Nitrobenzene-d5	4.973	82	430223	36.79	ppm	-0.04
Spiked Amount 50.000			Recovery = 73.58%			
51) 2-Fluorobiphenyl	6.764	172	847118	41.97	ppm	-0.08
Spiked Amount 50.000			Recovery = 83.94%			
73) 2,4,6-Tribromophenol	8.754	330	114451	48.15	ppm	-0.09
Spiked Amount 50.000			Recovery = 96.30%			
85) Terphenyl-d14	12.332	244	809681	42.69	ppm	-0.06
Spiked Amount 50.000			Recovery = 85.38%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.095	88	9385440	1948.73	ppm	86
3) Pyridine	2.400	79	206174	17.00	ppm	90
4) N-Nitrosodimethylamine	2.373	74	145163	19.51	ppm #	63
6) Indene	4.727	116	604658	36.57	ppm	99
7) Cumene	3.935	105	833045	32.21	ppm	97
9) Phenol	4.325	94	323552	22.69	ppm	97
10) Aniline	4.299	93	449551	30.25	ppm	78
11) bis(2-Chloroethyl)ether	4.341	93	325173	31.50	ppm	98
12) 2-Chlorophenol	4.400	128	339199	33.44	ppm	94
13) Decane	4.416	43	312802	25.95	ppm	98
14) 1,3-Dichlorobenzene	4.491	146	346817	32.33	ppm	99
15) 1,4-Dichlorobenzene	4.545	146	363269	33.68	ppm	99
16) Benzyl alcohol	4.657	108	230926	34.56	ppm	98
17) 1,2-Dichlorobenzene	4.662	146	344122	34.69	ppm	98
18) Acetophenone	4.844	105	500633	35.43	ppm	82
19) 2-Methylphenol	4.764	108	331919	37.58	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.743	121	105708	30.38	ppm #	81
21) 3&4-Methylphenol	4.882	108	344611	37.20	ppm	99
22) n-Nitroso-di-n-propyla...	4.855	70	287837	34.60	ppm	96
23) Hexachloroethane	4.925	201	110948	29.06	ppm	95
26) Nitrobenzene	4.989	77	422816	34.39	ppm	93
27) Quinoline	5.951	129	764666	40.92	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25725.D
Acq On : 7 May 2016 2:34 am
Operator : seanb1
Sample : op93693-ms
Misc : op93693,e6p1201,475
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 07 10:26:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.181	82	764591	37.17	ppm		94
29) 2-Nitrophenol	5.256	139	198930	41.14	ppm		95
30) 2,4-Dimethylphenol	5.315	107	439348	48.14	ppm		97
31) Benzoic acid	5.454	105	76483	10.64	ppm		91
32) bis(2-Chloroethoxy)met...	5.368	93	395205	32.59	ppm		100
33) 2,4-Dichlorophenol	5.497	162	311006	40.59	ppm		95
34) 2,6-Dichlorophenol	5.689	162	306823	40.60	ppm		98
36) 1,2,4-Trichlorobenzene	5.545	180	286946	32.32	ppm		97
38) Naphthalene	5.614	128	1047697	36.82	ppm		99
39) 4-Chloroaniline	5.679	127	388726	33.81	ppm		97
40) 2,3-Dichloroaniline	6.668	161	383440	41.04	ppm		100
41) Caprolactam	6.048	55	89950	18.89	ppm		97
42) Hexachlorobutadiene	5.732	225	158041	31.64	ppm		97
43) 4-Chloro-3-methylphenol	6.219	107	381923	42.19	ppm	#	33
44) 2-Methylnaphthalene	6.331	141	633293	41.34	ppm		98
45) 1-Methylnaphthalene	6.444	141	662658	41.49	ppm		97
46) Dimethylnaphthalene	7.080	156	698616	39.52	ppm		88
48) Hexachlorocyclopentadiene	6.513	237	265087	52.48	ppm		100
49) 2,4,6-Trichlorophenol	6.684	196	221309	41.19	ppm		92
50) 2,4,5-Trichlorophenol	6.754	196	213929	36.76	ppm		95
52) 2-Chloronaphthalene	6.909	162	685858	38.40	ppm		96
53) Biphenyl	6.887	154	953400	39.45	ppm		99
54) 2-Nitroaniline	7.059	65	286322	44.10	ppm		90
55) Dimethylphthalate	7.294	163	865582	42.08	ppm		99
56) Acenaphthylene	7.433	152	1175898	43.00	ppm		98
57) 2,6-Dinitrotoluene	7.374	165	195266	48.02	ppm		96
58) 3-Nitroaniline	7.604	138	188760	38.39	ppm		90
59) Acenaphthene	7.668	153	777876	42.05	ppm		96
60) 2,4-Dinitrophenol	7.765	184	217123	83.75	ppm	#	75
61) 4-Nitrophenol	7.968	109	116594	38.26	ppm	#	79
62) Dibenzofuran	7.909	168	1050683	42.72	ppm		89
63) 2,4-Dinitrotoluene	7.936	165	269423	50.32	ppm		90
64) 2,3,4,6-Tetrachlorophenol	8.118	232	164133	33.23	ppm		89
65) Diethylphthalate	8.278	149	918229	46.30	ppm		95
66) Fluorene	8.390	166	876585	42.50	ppm		99
67) 4-Chlorophenyl-phenyle...	8.406	204	399742	37.18	ppm		78
68) 4-Nitroaniline	8.476	138	219892	44.99	ppm		85
70) 4,6-Dinitro-2-methylph...	8.529	198	153696	43.46	ppm	#	45
71) n-Nitrosodiphenylamine	8.594	169	575811	41.21	ppm		98
72) 1,2-Diphenylhydrazine	8.642	77	963543	42.99	ppm		98
74) 4-Bromophenyl-phenylether	9.129	248	219141	40.27	ppm	#	82
75) Hexachlorobenzene	9.214	284	232015	41.70	ppm		91
76) Pentachlorophenol	9.546	266	116777	33.69	ppm		99
77) Phenanthrene	9.819	178	1184523	40.36	ppm		99
78) Anthracene	9.899	178	1189266	40.85	ppm		98
79) Carbazole	10.188	167	1129309	44.10	ppm		97
80) Di-n-butylphthalate	10.797	149	1501229	49.51	ppm		99
81) Fluoranthene	11.674	202	1267276	39.86	ppm		99
82) Octadecane	9.738	57	558734	40.41	ppm		96
84) Pyrene	12.022	202	1312811	41.38	ppm		99

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25725.D
Acq On : 7 May 2016 2:34 am
Operator : seanb1
Sample : op93693-ms
Misc : op93693,e6p1201,475
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 07 10:26:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration

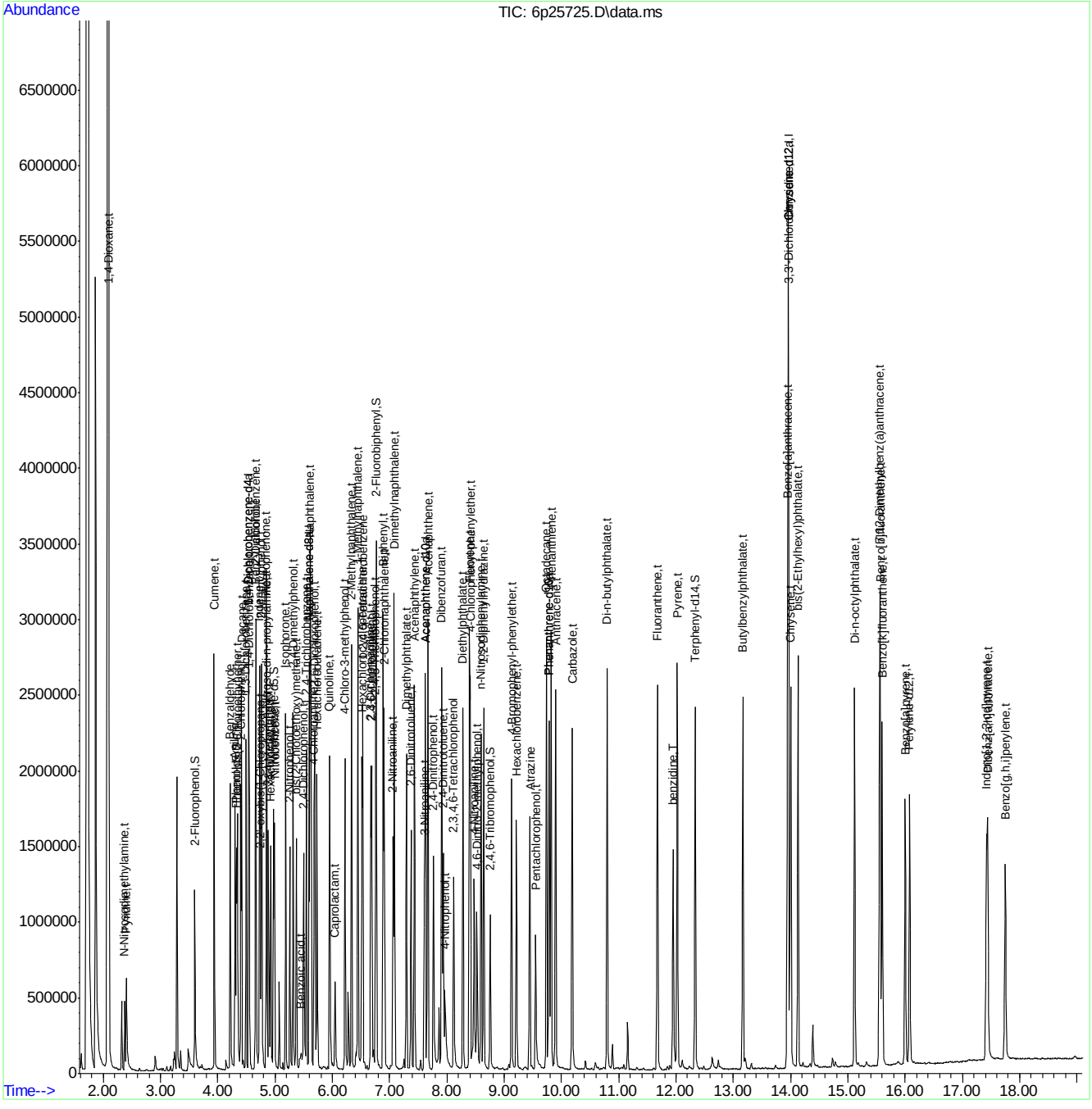
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	Butylbenzylphthalate	13.167	149	643658	51.70	ppm	97
88)	Benzo[a]anthracene	13.948	228	1122223	39.27	ppm	99
89)	3,3'-Dichlorobenzidine	13.958	252	668890	72.45	ppm	98
90)	Chrysene	14.001	228	1039007	36.25	ppm	100
91)	bis(2-Ethylhexyl)phtha...	14.130	149	858681	50.27	ppm	99
93)	Di-n-octylphthalate	15.114	149	1428600	59.17	ppm	99
94)	Benzo[b]fluoranthene	15.563	252	1081209	46.28	ppm	98
95)	Benzo[k]fluoranthene	15.600	252	938297	42.23	ppm	99
96)	Benzo[a]pyrene	16.002	252	854329	42.03	ppm	97
97)	Indeno[1,2,3-cd]pyrene	17.419	276	772959m	40.37	ppm	
99)	Dibenz[a,h]anthracene	17.440	278	799408	38.48	ppm	98
100)	7,12-Dimethylbenz(a)an...	15.558	256	479831	51.49	ppm	98
101)	Benzo[g,h,i]perylene	17.751	276	747159	35.64	ppm	99
103)	Benzaldehyde	4.213	105	269648	32.44	ppm	98
105)	1,2,4,5-Tetrachloroben...	6.529	216	329827	33.12	ppm	99
107)	Atrazine	9.449	215	116680	42.44	ppm	90
109)	benzidine	11.947	184	728617	57.52	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25725.D
Acq On : 7 May 2016 2:34 am
Operator : seanb1
Sample : op93693-ms
Misc : op93693,e6p1201,475
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 07 10:26:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Manual Integration Approval Summary

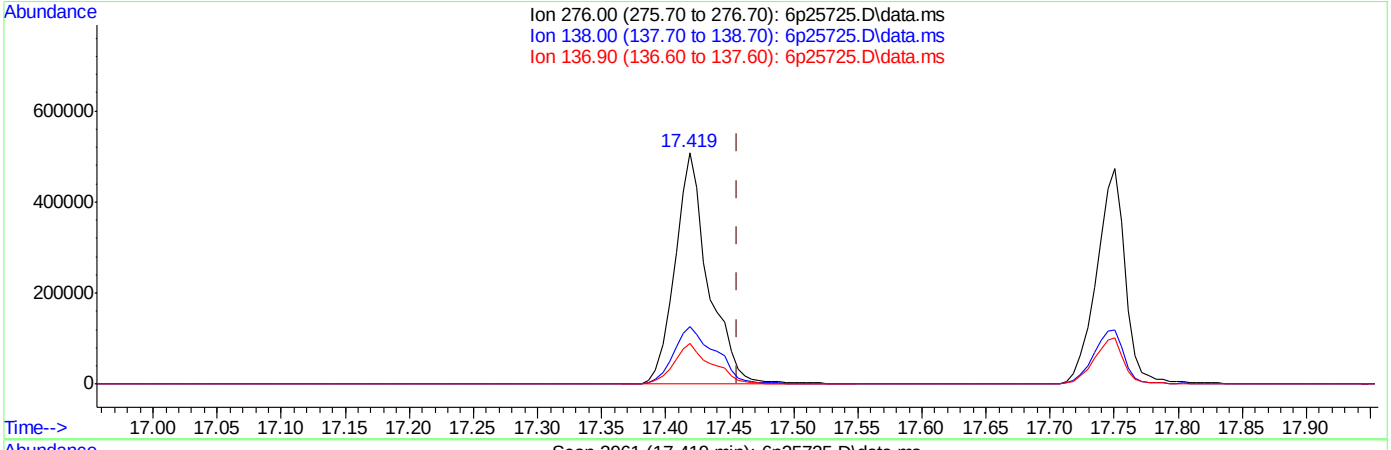
Sample Number:	OP93693-MS	**Method:**	SW846 8270D
Lab FileID:	6P25725.D	**Analyst approved:**	05/07/16 10:45 Kristi Schollenberger
Injection Time:	05/07/16 02:34	**Supervisor approved:**	05/09/16 16:26 Nina Pandya

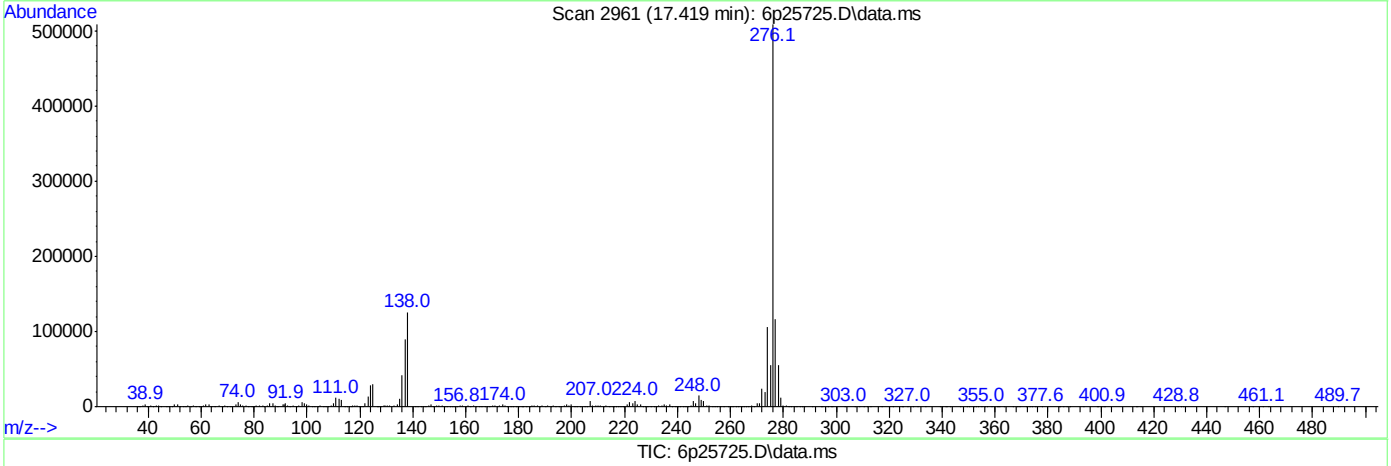
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.42	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25725.D
Acq On : 7 May 2016 2:34 am
Operator : seanb1
Sample : op93693-ms
Misc : op93693,e6p1201,475
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 07 10:25:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration





TIC: 6p25725.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.419min (-0.037) 48.48ppm

response 928293

Ion	Exp%	Act%
276.00	100	100
138.00	23.50	24.64
136.90	16.60	17.63
0.00	0.00	0.00

SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25725.D
Acq On : 7 May 2016 2:34 am
Operator : seanb1
Sample : op93693-ms
Misc : op93693,e6p1201,475
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 07 10:25:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
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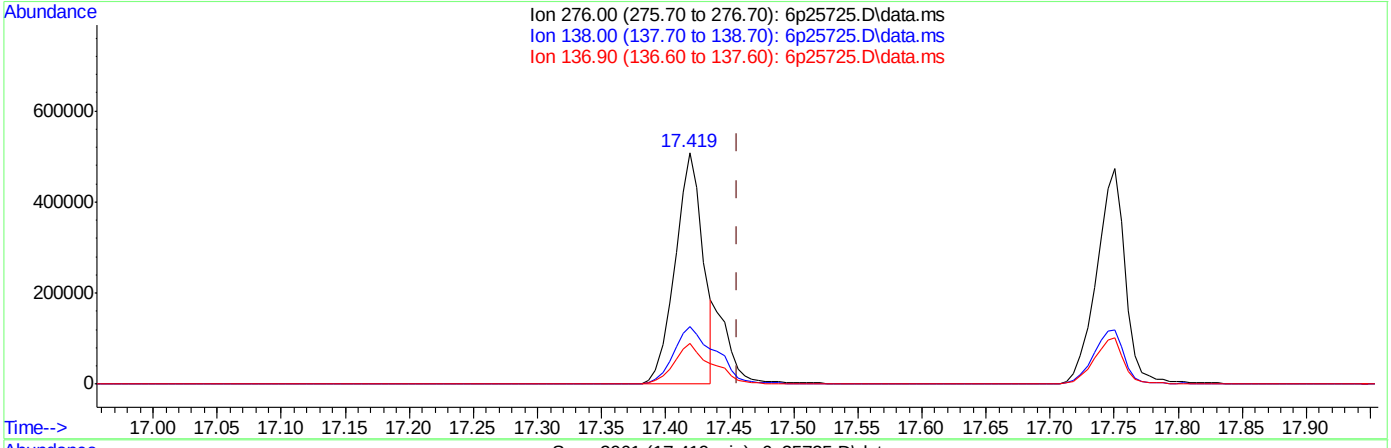
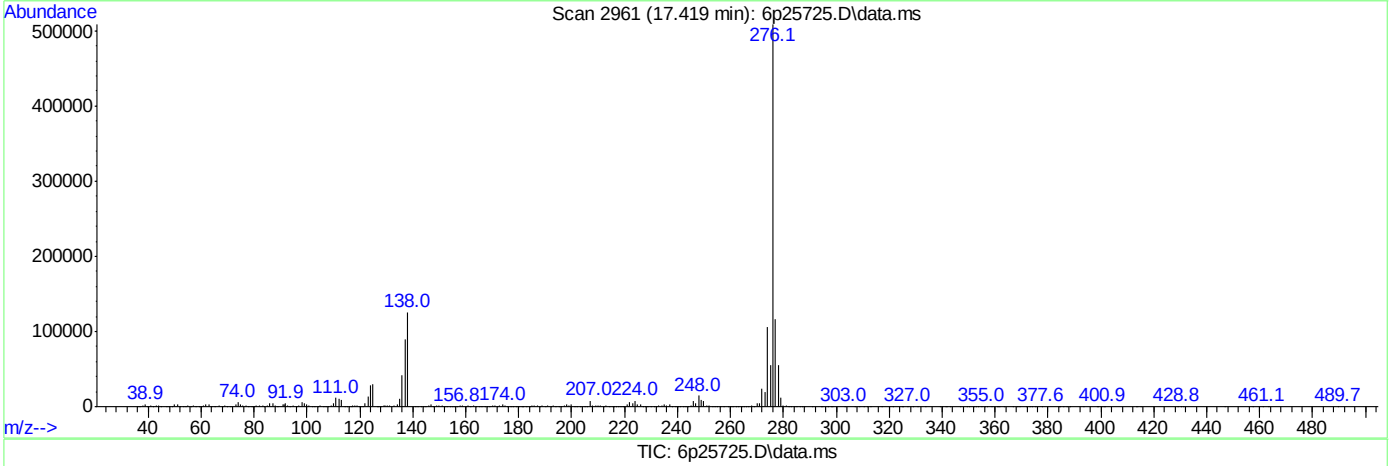
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration





TIC: 6p25725.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.419min (-0.037) 40.37ppm m

response 772959

Ion	Exp%	Act%
276.00	100	100
138.00	23.50	24.68
136.90	16.60	17.71
0.00	0.00	0.00

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25726.D
Acq On : 7 May 2016 3:01 am
Operator : seanb1
Sample : op93693-msd
Misc : op93693,e6p1201,475
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 07 10:51:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.539	152	272717	40.00	ppm	-0.02
24) Naphthalene-d8	5.598	136	1109924	40.00	ppm	-0.05
47) Acenaphthene-d10	7.626	164	649791	40.00	ppm	-0.07
69) Phenanthrene-d10	9.786	188	1061459	40.00	ppm	-0.09
83) Chrysene-d12	13.969	240	1042757	40.00	ppm	-0.04
92) Perylene-d12	16.087	264	823104	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.539	152	272717	40.00	ppm	-0.04
104) Acenaphthene-d10a	7.626	164	649791	40.00	ppm	-0.04
106) Phenanthrene-d10a	9.786	188	1061459	40.00	ppm	-0.08
108) Chrysene-d12a	13.969	240	1042757	40.00	ppm	-0.06
110) Naphthalene-d8a	5.598	136	1109924	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.598	112	263213	27.21	ppm	0.00
Spiked Amount 50.000			Recovery = 54.42%			
8) Phenol-d5	4.320	99	314664	24.75	ppm	0.00
Spiked Amount 50.000			Recovery = 49.50%			
25) Nitrobenzene-d5	4.973	82	440920	36.28	ppm	-0.04
Spiked Amount 50.000			Recovery = 72.56%			
51) 2-Fluorobiphenyl	6.770	172	870179	41.69	ppm	-0.08
Spiked Amount 50.000			Recovery = 83.38%			
73) 2,4,6-Tribromophenol	8.759	330	122734	49.54	ppm	-0.08
Spiked Amount 50.000			Recovery = 99.08%			
85) Terphenyl-d14	12.338	244	859330	43.86	ppm	-0.05
Spiked Amount 50.000			Recovery = 87.72%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.090	88	9099649	1860.05	ppm	88
3) Pyridine	2.400	79	204828	16.63	ppm	91
4) N-Nitrosodimethylamine	2.373	74	143649	19.01	ppm #	66
6) Indene	4.732	116	616822	36.73	ppm	97
7) Cumene	3.940	105	834225	31.75	ppm	99
9) Phenol	4.331	94	347568	23.99	ppm	99
10) Aniline	4.304	93	426028	28.22	ppm	69
11) bis(2-Chloroethyl)ether	4.341	93	328152	31.29	ppm	99
12) 2-Chlorophenol	4.400	128	340471	33.04	ppm	100
13) Decane	4.416	43	322098	26.31	ppm	96
14) 1,3-Dichlorobenzene	4.497	146	346486	31.80	ppm	98
15) 1,4-Dichlorobenzene	4.550	146	368817	33.66	ppm	99
16) Benzyl alcohol	4.657	108	238936	35.20	ppm	98
17) 1,2-Dichlorobenzene	4.668	146	342100	33.95	ppm	98
18) Acetophenone	4.850	105	526221	36.66	ppm	81
19) 2-Methylphenol	4.769	108	337631	37.63	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.743	121	106953	30.26	ppm #	85
21) 3&4-Methylphenol	4.887	108	358074	38.05	ppm	98
22) n-Nitroso-di-n-propyla...	4.855	70	293413	34.72	ppm	93
23) Hexachloroethane	4.925	201	111748	28.82	ppm	86
26) Nitrobenzene	4.989	77	439581	34.40	ppm	99
27) Quinoline	5.951	129	771542	39.73	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25726.D
Acq On : 7 May 2016 3:01 am
Operator : seanb1
Sample : op93693-msd
Misc : op93693,e6p1201,475
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 07 10:51:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.187	82	772422	36.13	ppm		95
29) 2-Nitrophenol	5.256	139	206761	41.14	ppm		96
30) 2,4-Dimethylphenol	5.315	107	443343	46.74	ppm		99
31) Benzoic acid	5.459	105	86821	11.62	ppm		98
32) bis(2-Chloroethoxy)met...	5.374	93	402859	31.97	ppm		99
33) 2,4-Dichlorophenol	5.497	162	323624	40.64	ppm		95
34) 2,6-Dichlorophenol	5.695	162	318139	40.51	ppm		98
36) 1,2,4-Trichlorobenzene	5.550	180	290817	31.52	ppm		98
38) Naphthalene	5.620	128	1061269	35.89	ppm		99
39) 4-Chloroaniline	5.684	127	371394	31.08	ppm		98
40) 2,3-Dichloroaniline	6.674	161	397389	40.93	ppm		99
41) Caprolactam	6.053	55	93457	18.88	ppm		97
42) Hexachlorobutadiene	5.737	225	160743	30.96	ppm		98
43) 4-Chloro-3-methylphenol	6.224	107	403249	42.86	ppm		98
44) 2-Methylnaphthalene	6.337	141	647935	40.70	ppm		99
45) 1-Methylnaphthalene	6.449	141	684309	41.23	ppm		97
46) Dimethylnaphthalene	7.085	156	712409	38.77	ppm		88
48) Hexachlorocyclopentadiene	6.518	237	278336	53.29	ppm		97
49) 2,4,6-Trichlorophenol	6.690	196	228347	41.10	ppm		93
50) 2,4,5-Trichlorophenol	6.759	196	230514	38.30	ppm		94
52) 2-Chloronaphthalene	6.909	162	715453	38.74	ppm		95
53) Biphenyl	6.887	154	977711	39.12	ppm		98
54) 2-Nitroaniline	7.064	65	307576	45.81	ppm		90
55) Dimethylphthalate	7.294	163	909326	42.75	ppm		98
56) Acenaphthylene	7.433	152	1189582	42.07	ppm		98
57) 2,6-Dinitrotoluene	7.380	165	208983	49.70	ppm		93
58) 3-Nitroaniline	7.610	138	187854	36.95	ppm		92
59) Acenaphthene	7.668	153	793563	41.49	ppm		97
60) 2,4-Dinitrophenol	7.770	184	236727	88.01	ppm	#	81
61) 4-Nitrophenol	7.973	109	124166	39.41	ppm		87
62) Dibenzofuran	7.914	168	1102916	43.36	ppm		92
63) 2,4-Dinitrotoluene	7.936	165	284592	51.40	ppm		96
64) 2,3,4,6-Tetrachlorophenol	8.123	232	176015	34.46	ppm		93
65) Diethylphthalate	8.283	149	966500	47.13	ppm		95
66) Fluorene	8.396	166	918119	43.05	ppm		98
67) 4-Chlorophenyl-phenyle...	8.412	204	411047	36.97	ppm		83
68) 4-Nitroaniline	8.481	138	232959	46.10	ppm		88
70) 4,6-Dinitro-2-methylph...	8.535	198	164653	44.58	ppm	#	42
71) n-Nitrosodiphenylamine	8.599	169	615725	42.27	ppm		99
72) 1,2-Diphenylhydrazine	8.647	77	1018999	43.62	ppm		98
74) 4-Bromophenyl-phenylether	9.134	248	232522	41.00	ppm		87
75) Hexachlorobenzene	9.219	284	252191	43.49	ppm		95
76) Pentachlorophenol	9.551	266	128050	35.44	ppm		98
77) Phenanthrene	9.824	178	1262948	41.29	ppm		100
78) Anthracene	9.904	178	1240567	40.89	ppm		98
79) Carbazole	10.193	167	1220300	45.72	ppm		98
80) Di-n-butylphthalate	10.803	149	1621507	51.31	ppm		99
81) Fluoranthene	11.680	202	1343751	40.56	ppm		98
82) Octadecane	9.738	57	582437	40.42	ppm		96
84) Pyrene	12.028	202	1399237	42.70	ppm		99

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25726.D
Acq On : 7 May 2016 3:01 am
Operator : seanb1
Sample : op93693-msd
Misc : op93693,e6p1201,475
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 07 10:51:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	Butylbenzylphthalate	13.172	149	697544	54.24	ppm	96
88)	Benzo[a]anthracene	13.953	228	1184878	40.13	ppm	99
89)	3,3'-Dichlorobenzidine	13.969	252	729527	76.49	ppm	97
90)	Chrysene	14.012	228	1103361	37.27	ppm	99
91)	bis(2-Ethylhexyl)phtha...	14.135	149	918004	52.03	ppm	97
93)	Di-n-octylphthalate	15.124	149	1515225	60.02	ppm	99
94)	Benzo[b]fluoranthene	15.574	252	1130586	46.28	ppm	99
95)	Benzo[k]fluoranthene	15.611	252	1011145	43.52	ppm	98
96)	Benzo[a]pyrene	16.007	252	901975	42.43	ppm	97
97)	Indeno[1,2,3-cd]pyrene	17.424	276	992568	49.58	ppm	97
99)	Dibenz[a,h]anthracene	17.451	278	868712	39.99	ppm	98
100)	7,12-Dimethylbenz(a)an...	15.563	256	519314	53.29	ppm	97
101)	Benzo[g,h,i]perylene	17.756	276	802267	36.59	ppm	97
103)	Benzaldehyde	4.218	105	272635	32.29	ppm	97
105)	1,2,4,5-Tetrachloroben...	6.534	216	334428	32.47	ppm	98
107)	Atrazine	9.455	215	124986	43.62	ppm	93
109)	benzidine	11.953	184	813177	62.14	ppm	99

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

7.4.2

7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25726.D
Acq On : 7 May 2016 3:01 am
Operator : seanb1
Sample : op93693-msd
Misc : op93693,e6p1201,475
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 07 10:51:52 2016
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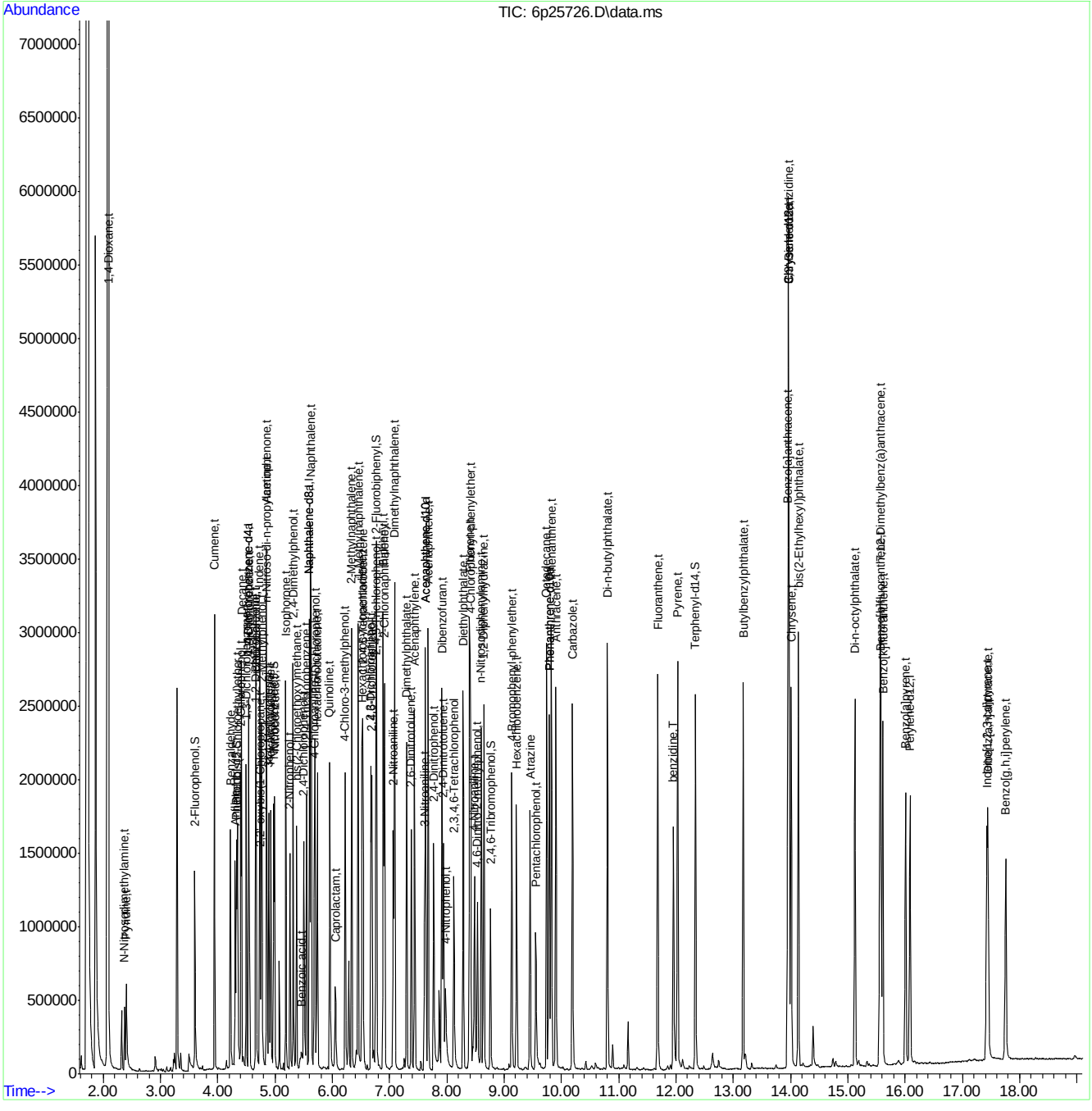
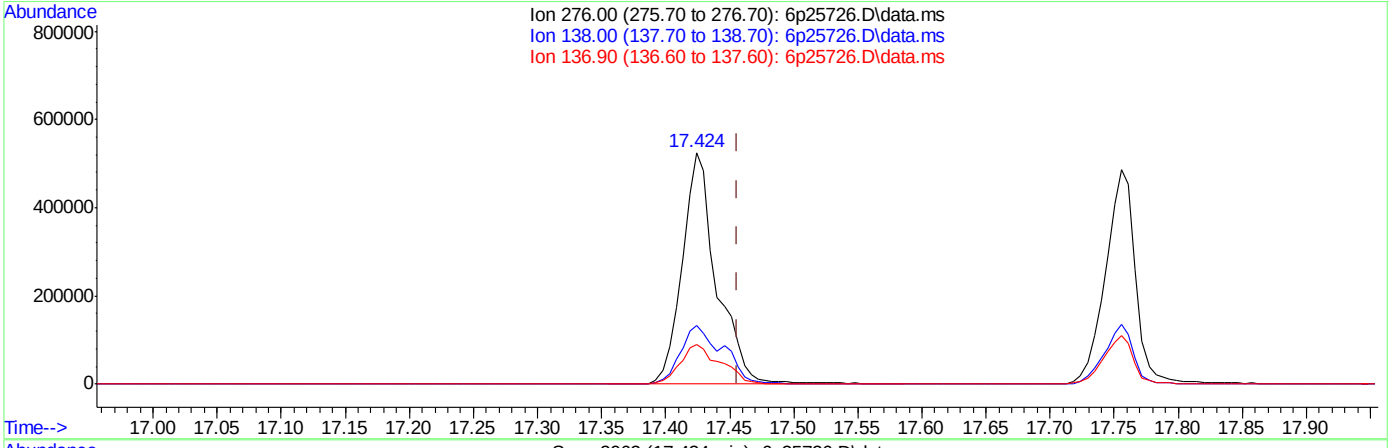
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration

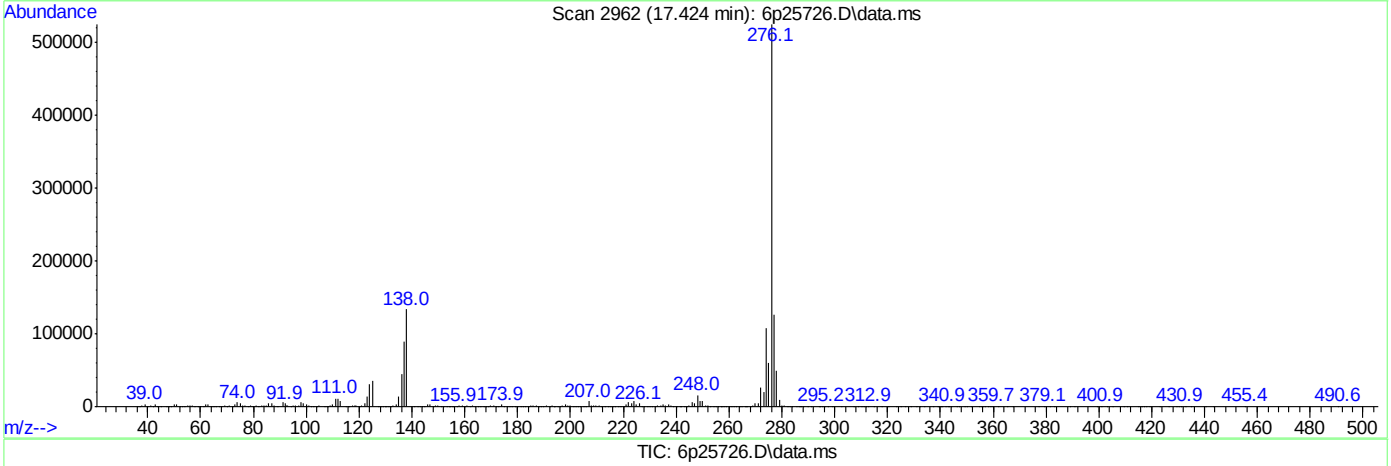


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25726.D
Acq On : 7 May 2016 3:01 am
Operator : seanb1
Sample : op93693-msd
Misc : op93693,e6p1201,475
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 07 10:27:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration





TIC: 6p25726.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.424min (-0.032) 49.58ppm

response 992568

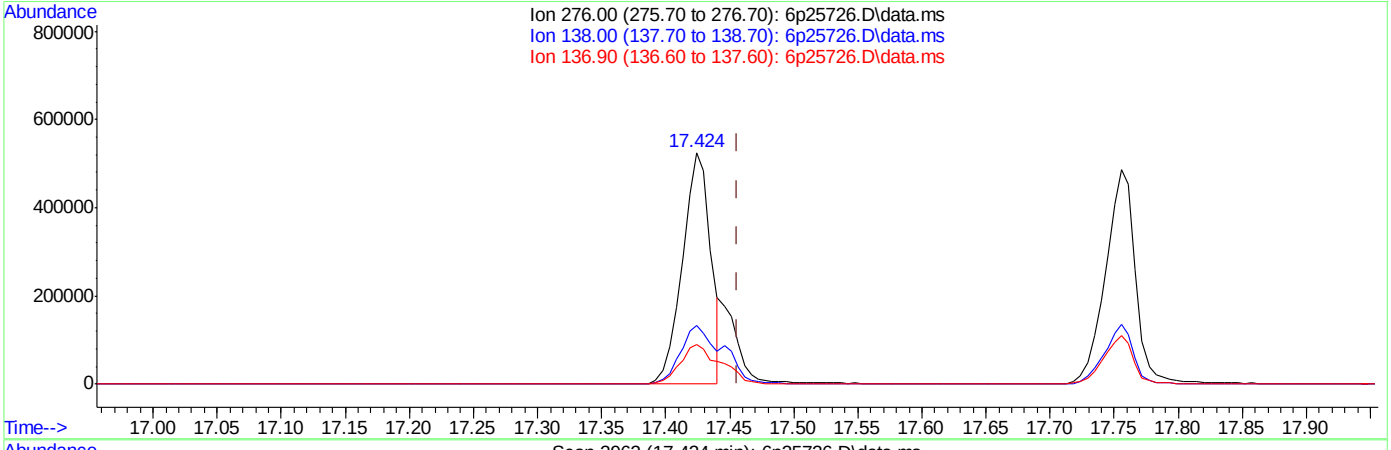
Ion	Exp%	Act%
276.00	100	100
138.00	23.50	25.39
136.90	16.60	16.92
0.00	0.00	0.00

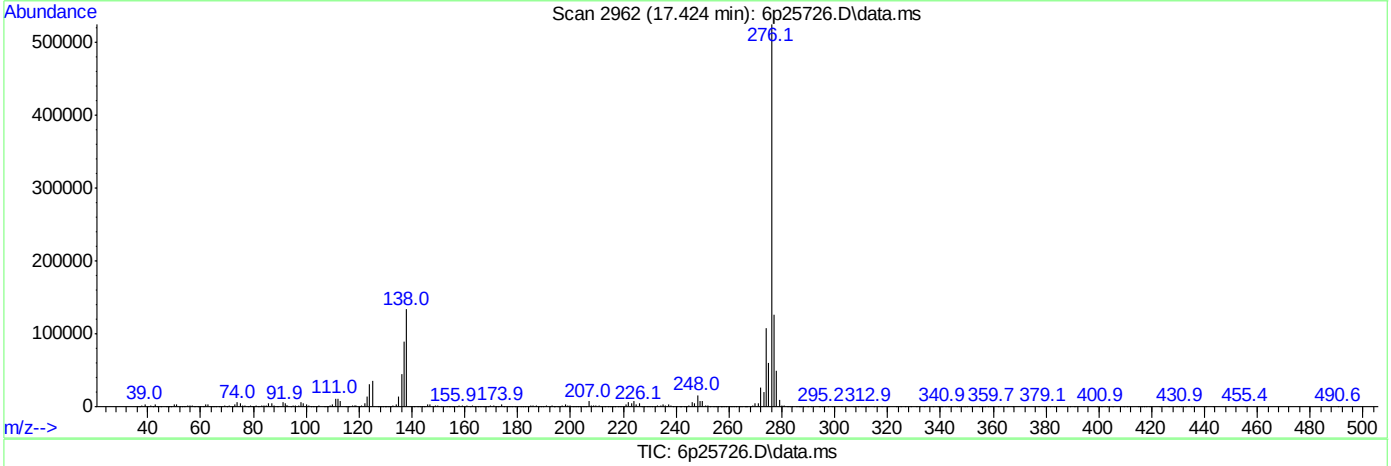
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25726.D
Acq On : 7 May 2016 3:01 am
Operator : seanb1
Sample : op93693-msd
Misc : op93693,e6p1201,475
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 07 10:27:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:22:18 2016
Response via : Initial Calibration





TIC: 6p25726.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.424min (-0.032) 40.49ppm m

response 810663

Ion	Exp%	Act%
276.00	100	100
138.00	23.50	25.43
136.90	16.60	17.01
0.00	0.00	0.00

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61151.D
Acq On : 7 May 2016 1:42 am
Operator : juliusj
Sample : op93693a-ms
Misc : op93693a,e3m2875,400
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 07 12:51:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

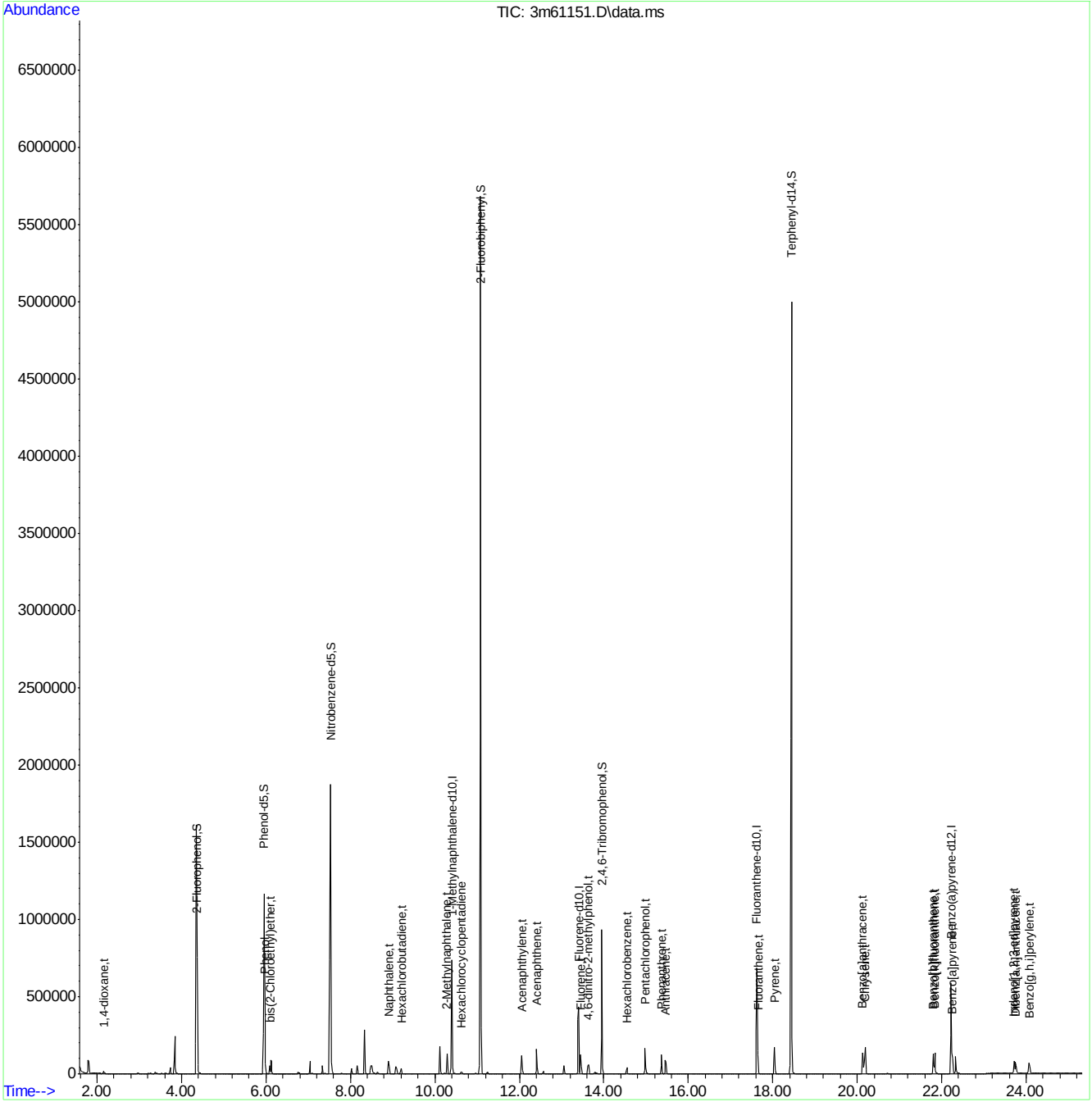
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.406	150	383933	4.00	ppm	-0.02
14) Fluorene-d10	13.411	176	471665	4.00	ppm	-0.02
21) Fluoranthene-d10	17.623	212	737060	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.228	264	584840	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.368	112	1157109	24.09	ppm	-0.06
Spiked Amount 50.000			Recovery = 48.18%			
4) Phenol-d5	5.952	99	1482942	18.66	ppm	-0.03
Spiked Amount 50.000			Recovery = 37.32%			
7) Nitrobenzene-d5	7.531	82	1940896	26.26	ppm	-0.04
Spiked Amount 50.000			Recovery = 52.52%			
15) 2-Fluorobiphenyl	11.083	172	4509679	34.80	ppm	-0.04
Spiked Amount 50.000			Recovery = 69.60%			
20) 2,4,6-Tribromophenol	13.957	330	558331	37.82	ppm	0.00
Spiked Amount 50.000			Recovery = 75.64%			
28) Terphenyl-d14	18.442	244	4443993	41.56	ppm	0.00
Spiked Amount 50.000			Recovery = 83.12%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.159	88	11480	0.58	ppm #	12
5) Phenol	5.976	94	214709	2.51	ppm #	82
6) bis(2-Chloroethyl)ether	6.097	93	36008	0.56	ppm #	24
9) Naphthalene	8.905	128	115380	0.54	ppm	89
10) Hexachlorobutadiene	9.207	225	21618	0.58	ppm	79
11) 2-Methylnaphthalene	10.283	141	71772	0.65	ppm #	67
13) Hexachlorocyclopentadiene	10.632	237	10626	0.36	ppm #	74
16) Acenaphthylene	12.057	152	111217	0.68	ppm	94
17) Acenaphthene	12.412	153	79493	0.73	ppm	90
18) 4,6-dinitro-2-methylph...	13.637	198	75550	4.93	ppm	90
19) Fluorene	13.449	166	92305	0.71	ppm	97
22) Hexachlorobenzene	14.547	284	26085	0.75	ppm	98
23) Pentachlorophenol	14.980	266	96767	4.05	ppm	99
24) Phenanthrene	15.367	178	135826	0.75	ppm	98
25) Anthracene	15.459	178	123016	0.77	ppm	99
26) Fluoranthene	17.654	202	162133	0.71	ppm	89
27) Pyrene	18.040	202	160386	0.76	ppm	91
29) Benzo[a]anthracene	20.126	228	132940	0.66	ppm	92
30) Chrysene	20.188	228	140578	0.73	ppm	93
32) Benzo[b]fluoranthene	21.795	252	144530	0.74	ppm	97
33) Benzo[k]fluoranthene	21.841	252	101786	0.57	ppm	96
34) Benzo[a]pyrene	22.258	252	112567	0.62	ppm	86
35) Indeno[1,2,3-cd]pyrene	23.712	276	112845	0.61	ppm	98
36) Dibenz[a,h]anthracene	23.749	278	82247	0.54	ppm	69
37) Benzo[g,h,i]perylene	24.069	276	91301	0.57	ppm	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61151.D
Acq On : 7 May 2016 1:42 am
Operator : juliusj
Sample : op93693a-ms
Misc : op93693a,e3m2875,400
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 07 12:51:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration



M3M2855SIM.M Mon May 09 09:27:09 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61152.D
Acq On : 7 May 2016 2:15 am
Operator : juliusj
Sample : op93693a-msd
Misc : op93693a,e3m2875,400
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 07 14:41:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

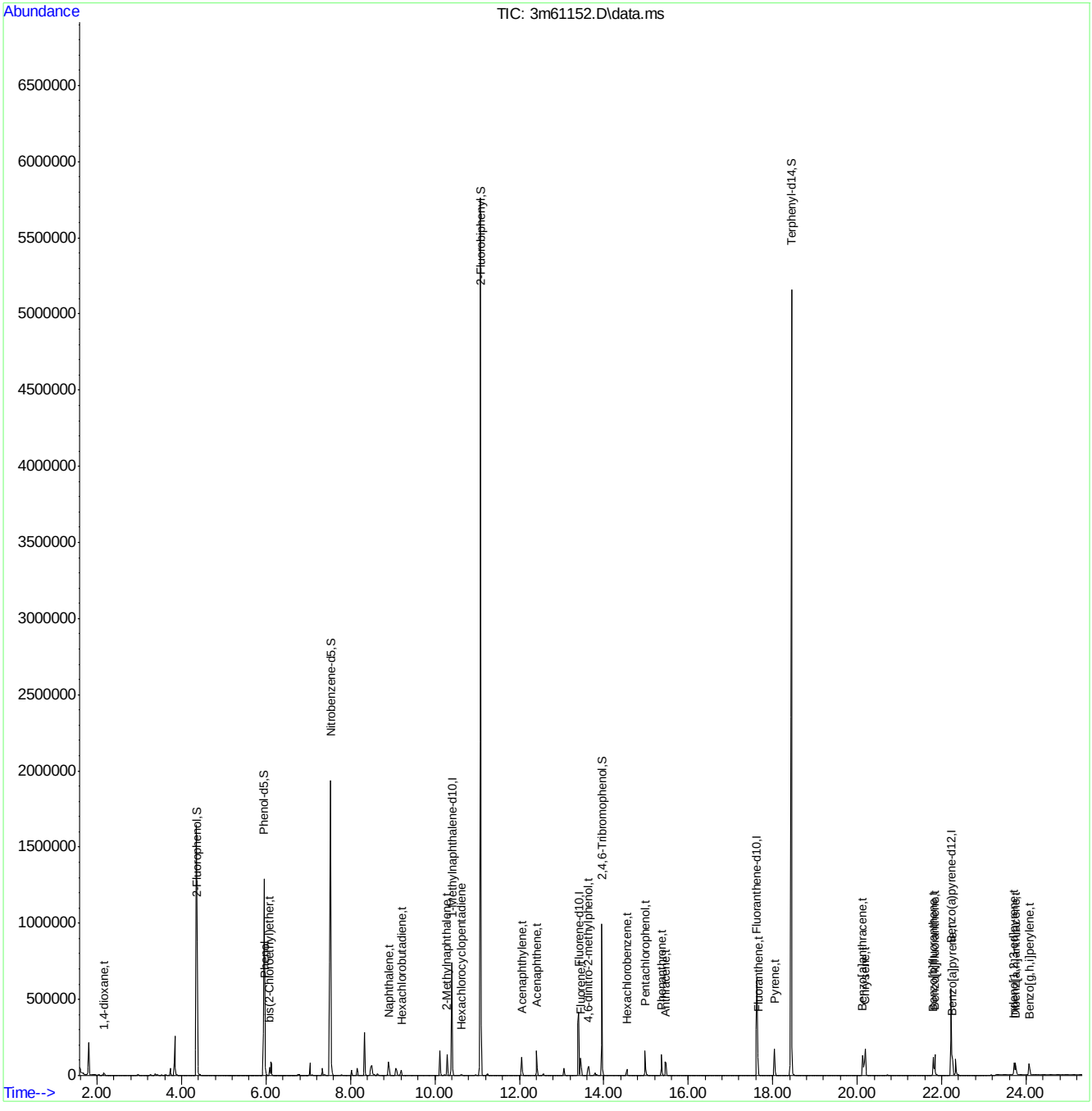
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.406	150	385180	4.00	ppm	-0.02
14) Fluorene-d10	13.411	176	455532	4.00	ppm	-0.02
21) Fluoranthene-d10	17.623	212	720457	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.228	264	570470	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.369	112	1225850	25.44	ppm	-0.06
Spiked Amount 50.000			Recovery = 50.88%			
4) Phenol-d5	5.952	99	1583929	19.86	ppm	-0.03
Spiked Amount 50.000			Recovery = 39.72%			
7) Nitrobenzene-d5	7.531	82	1987579	26.81	ppm	-0.04
Spiked Amount 50.000			Recovery = 53.62%			
15) 2-Fluorobiphenyl	11.083	172	4574552	36.55	ppm	-0.04
Spiked Amount 50.000			Recovery = 73.10%			
20) 2,4,6-Tribromophenol	13.957	330	573277	40.21	ppm	0.00
Spiked Amount 50.000			Recovery = 80.42%			
28) Terphenyl-d14	18.442	244	4610236	44.11	ppm	0.00
Spiked Amount 50.000			Recovery = 88.22%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.174	88	11185	0.56	ppm	65
5) Phenol	5.976	94	218096	2.54	ppm #	77
6) bis(2-Chloroethyl)ether	6.085	93	36517	0.56	ppm #	27
9) Naphthalene	8.905	128	118874	0.56	ppm	90
10) Hexachlorobutadiene	9.207	225	22453	0.60	ppm	80
11) 2-Methylnaphthalene	10.283	141	73955	0.66	ppm #	69
13) Hexachlorocyclopentadiene	10.632	237	9906	0.33	ppm #	75
16) Acenaphthylene	12.057	152	113842	0.72	ppm	93
17) Acenaphthene	12.413	153	81570	0.77	ppm	90
18) 4,6-dinitro-2-methylph...	13.637	198	73455	4.96	ppm	91
19) Fluorene	13.449	166	92200	0.73	ppm	95
22) Hexachlorobenzene	14.547	284	26774	0.79	ppm	96
23) Pentachlorophenol	14.980	266	97302	4.16	ppm	98
24) Phenanthrene	15.367	178	141734	0.80	ppm	98
25) Anthracene	15.459	178	127562	0.82	ppm	98
26) Fluoranthene	17.654	202	159023	0.72	ppm	89
27) Pyrene	18.041	202	163159	0.79	ppm	91
29) Benzo[a]anthracene	20.126	228	131250	0.66	ppm	93
30) Chrysene	20.188	228	143354	0.76	ppm	91
32) Benzo[b]fluoranthene	21.795	252	140056	0.74	ppm	97
33) Benzo[k]fluoranthene	21.841	252	100380	0.57	ppm	96
34) Benzo[a]pyrene	22.259	252	110792	0.63	ppm	87
35) Indeno[1,2,3-cd]pyrene	23.712	276	116675	0.65	ppm	97
36) Dibenz[a,h]anthracene	23.749	278	82247	0.56	ppm	69
37) Benzo[g,h,i]perylene	24.069	276	96879	0.62	ppm	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61152.D
Acq On : 7 May 2016 2:15 am
Operator : juliusj
Sample : op93693a-msd
Misc : op93693a,e3m2875,400
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 07 14:41:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

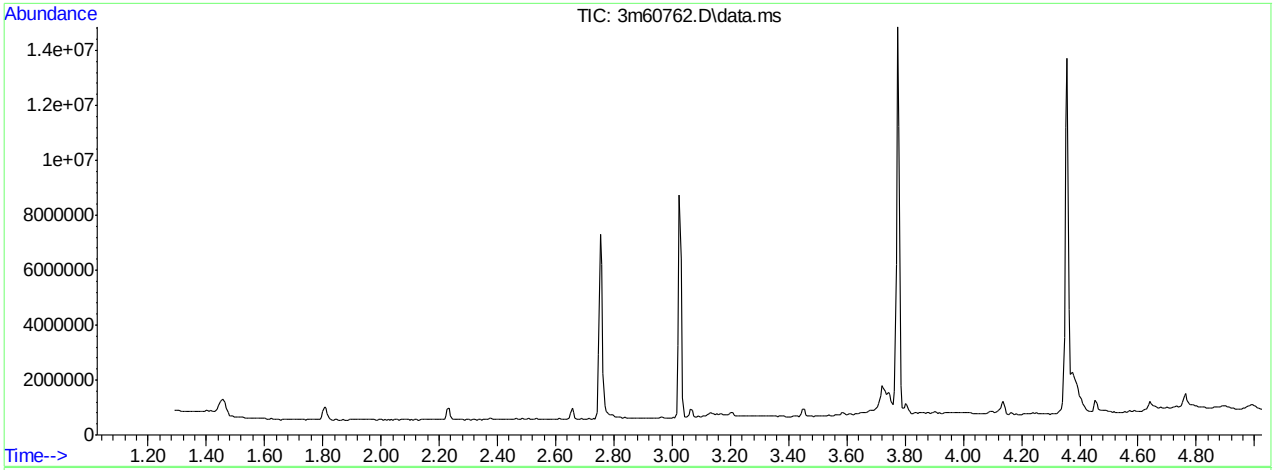


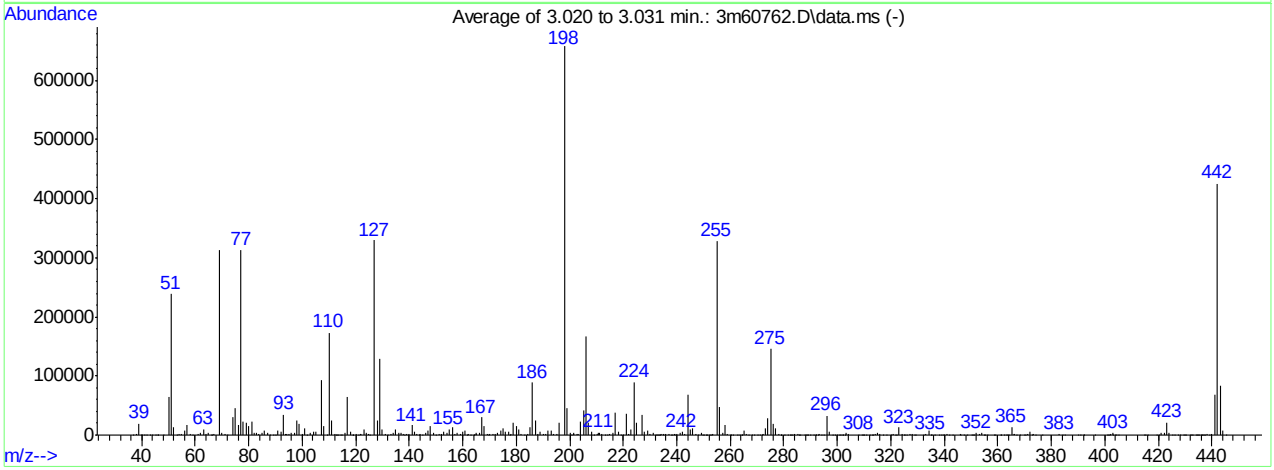
SGS ACCUTEST JC19759

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

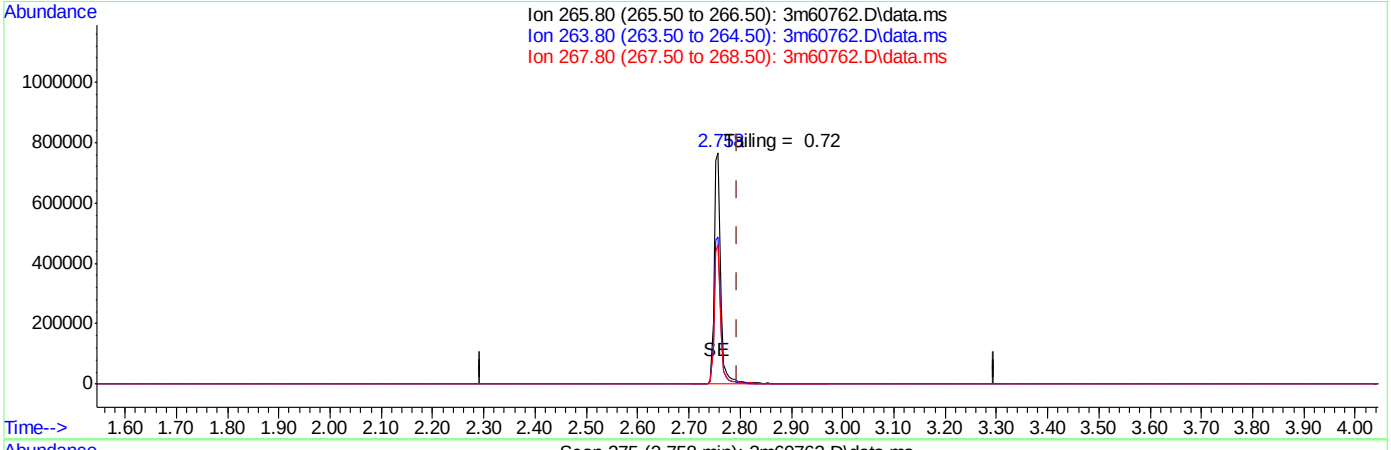
dftpp
Modified:subtracted

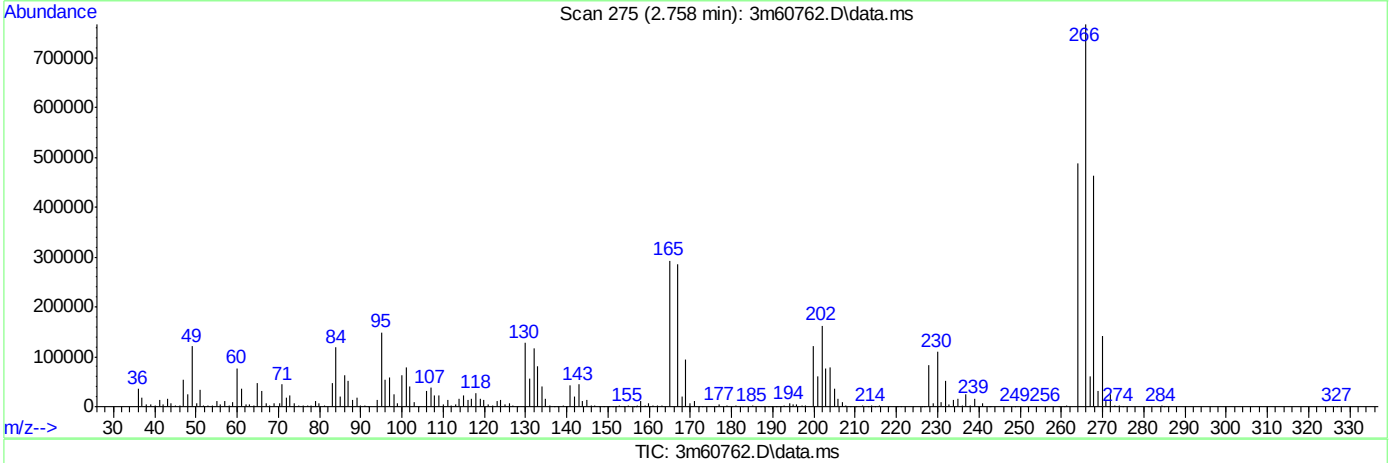
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.10	21736	432.90	494	438.80	912		
424.10	4461	433.85	400	439.90	2031		
425.00	512	434.50	189	441.10	68134		
426.10	183	434.80	226	442.10	425304		
427.20	203	435.40	731	443.10	83298		
428.30	259	435.90	455	444.10	7637		
429.50	82	436.25	476	445.10	306		
429.70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





(1) Pentachlorophenol (t)

2.758min (-0.037) 190.28ppb

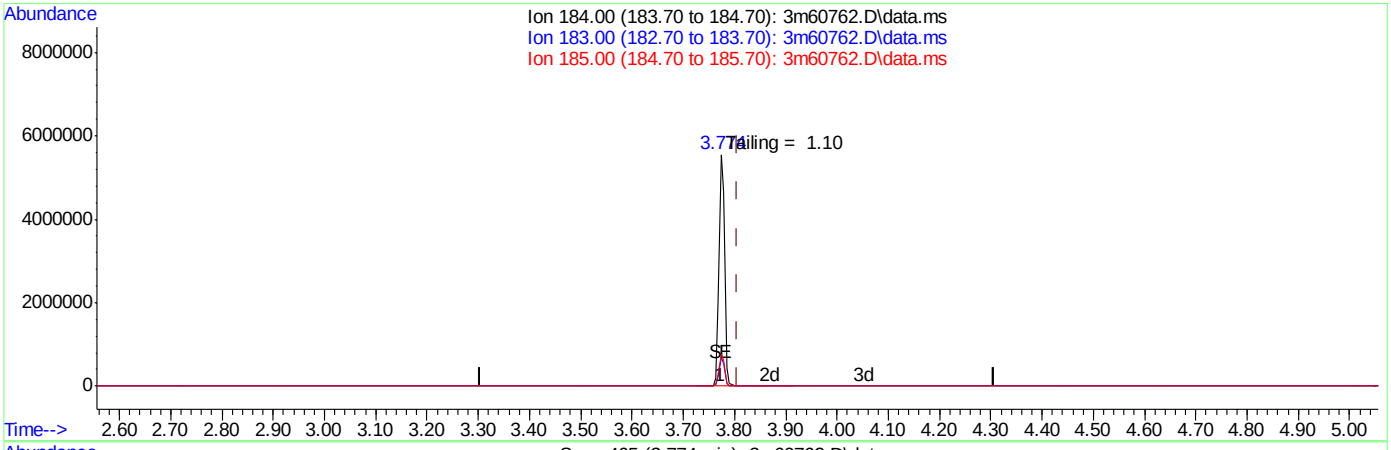
response 701808

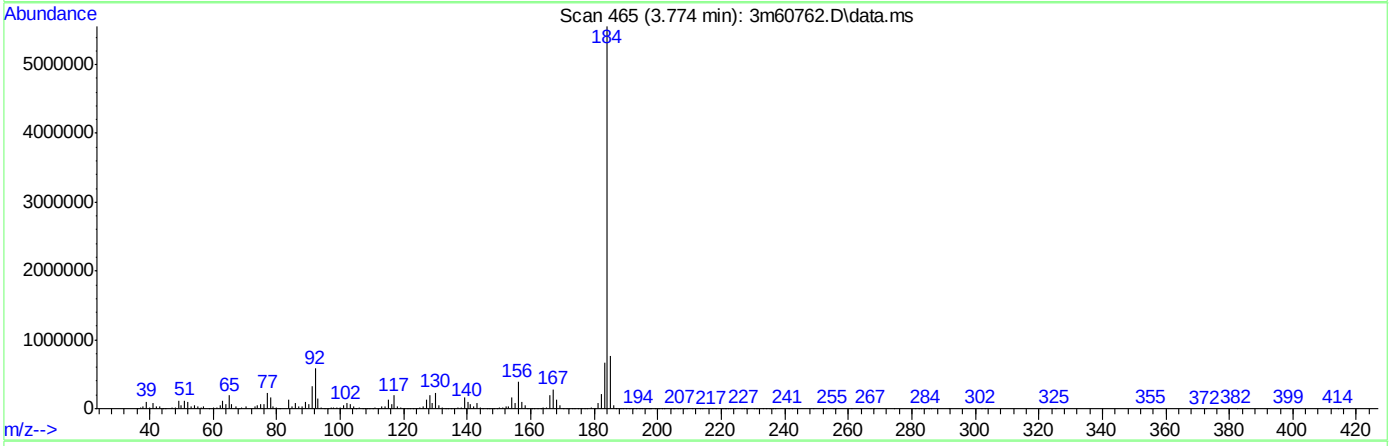
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	63.64
267.80	64.10	60.34
0.00	0.00	0.00

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

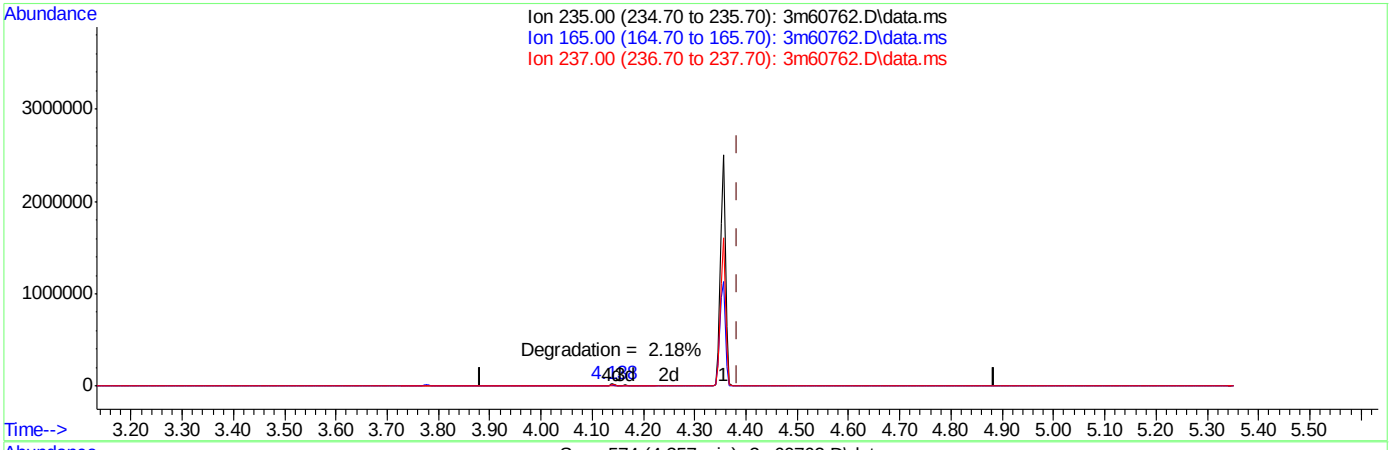
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	12.07
185.00	14.40	13.67
0.00	0.00	0.00

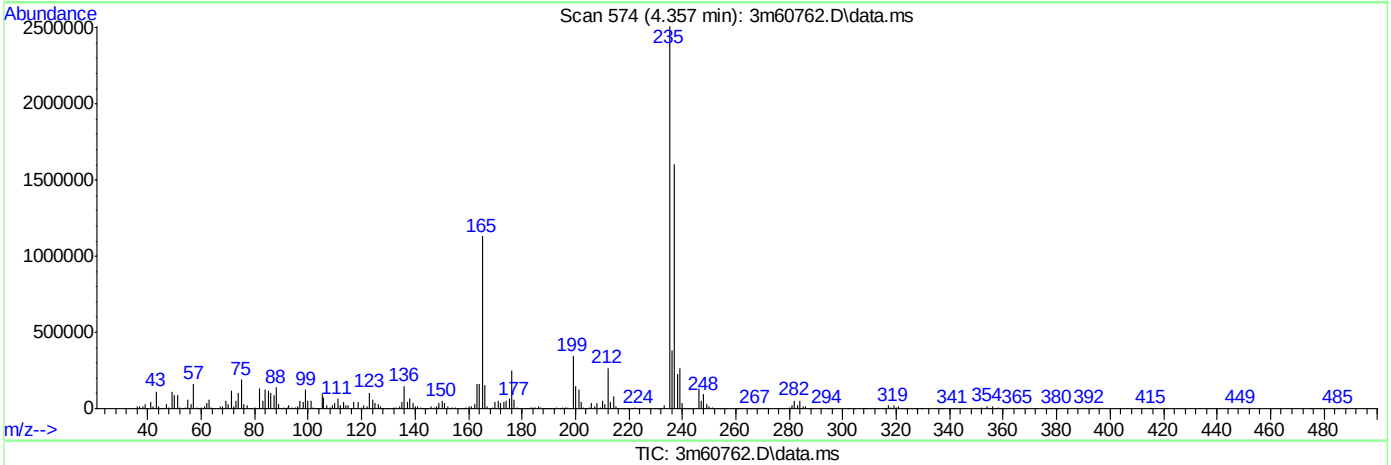
SGS ACCUTEST JC19759

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

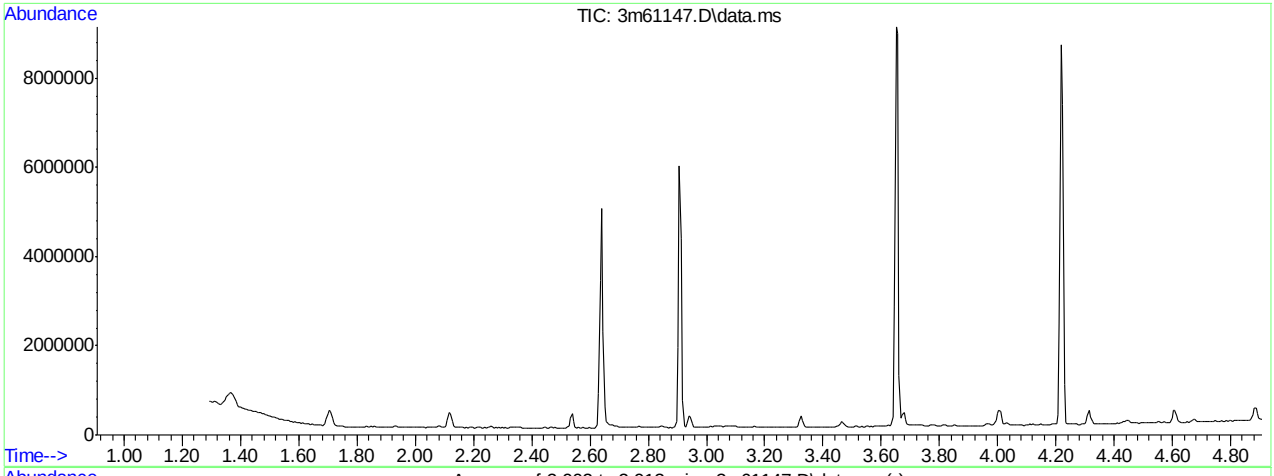
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	48.45#
237.00	0.00	63.48#
0.00	0.00	0.00

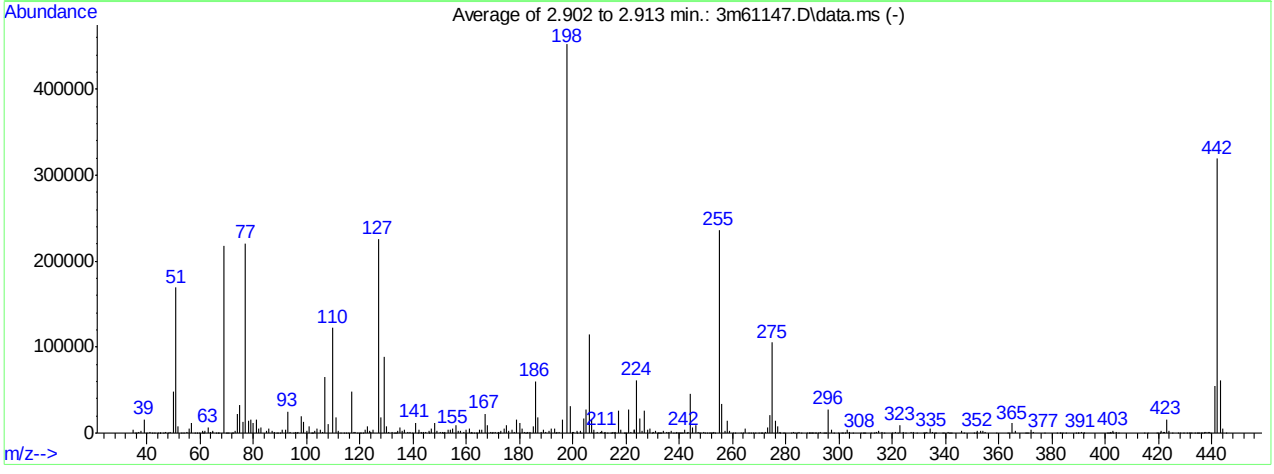
SGS ACCUTEST JC19759

DFTPP

Data File : C:\msdchem\1\DATA\E3M2875\3m61147.D Vial: 1
Acq On : 6 May 2016 10:28 pm Operator: juliusj
Sample : dftpp Inst : MS3M
Misc : op93629a,e3m2875 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 302, 303, 304; Background Corrected with Scan 298

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.4	169145	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.2	218137	PASS
70	69	0.00	2	0.3	614	PASS
127	198	40	60	50.0	226152	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	452203	PASS
199	198	5	9	6.8	30744	PASS
275	198	10	30	23.4	105635	PASS
365	198	1	100	2.6	11692	PASS
441	443	0.10	100	88.6	54872	PASS
442	198	40	100	70.6	319419	PASS
443	442	17	23	19.4	61953	PASS

3m61147.D DFTPP3M.M Sat May 07 12:46:21 2016 RPT1

Average of 2.902 to 2.913 min.: 3m61147.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	3602	44.90	644	55.00	708	64.00	1271
35.90	307	45.10	343	55.90	5422	64.80	970
36.20	566	46.10	57	57.00	12088	64.95	2947
36.95	797	47.00	1662	58.05	685	66.00	670
38.05	2597	47.95	337	59.05	447	67.00	199
39.05	15667	49.00	1992	59.75	392	67.10	308
40.10	665	50.00	48843	60.80	531	69.00	218137
41.05	1077	51.00	169145	61.00	2602	70.00	614
41.95	83	51.95	8271	61.30	412	70.20	612
43.00	620	52.95	558	62.00	2954	70.90	434
44.00	171	53.90	5	63.00	6889	71.85	468

Average of 2.902 to 2.913 min.: 3m61147.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
72.20	268	83.00	5975	94.05	1816	102.30	258
73.15	2380	84.95	3275	94.90	168	103.05	3101
74.00	21778	85.95	4739	96.05	852	104.00	5885
75.00	32459	86.95	2353	96.25	100	105.05	4174
76.05	12723	87.90	1102	97.00	735	106.10	827
77.05	220645	88.90	433	98.00	20109	107.00	65423
78.10	14126	89.10	291	99.00	13737	107.95	10679
79.05	15125	90.25	413	99.95	2010	110.00	122513
80.00	11326	91.00	3759	100.90	7880	110.95	18332
81.05	15503	92.10	4442	101.85	499	112.00	2697
82.00	4917	93.00	25157	102.10	103	113.00	452

Average of 2.902 to 2.913 min.: 3m61147.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
114.05	367	123.00	7279	133.25	89	142.05	3824
114.70	191	123.90	2117	133.90	496	142.90	1921
115.90	671	124.10	725	134.10	2280	143.20	376
117.00	48159	125.00	3378	135.05	6738	143.85	1409
117.90	1881	127.00	226152	136.00	3167	144.95	803
118.10	1697	128.00	17715	136.95	3779	145.90	2034
118.95	433	129.00	88207	137.95	887	146.10	540
119.90	296	130.00	7725	139.05	745	147.00	5817
120.20	501	130.95	895	139.90	582	147.95	12034
121.10	478	132.15	1380	141.00	12087	148.95	2057
122.05	4285	132.95	545	141.80	658	150.10	706

Average of 2.902 to 2.913 min.: 3m61147.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.00	356	159.95	3812	167.95	9673	176.05	2385
151.20	1422	161.00	4955	169.05	1959	177.05	4366
151.50	313	161.80	368	169.50	99	178.05	1391
151.85	1711	162.00	715	170.00	1023	179.00	15243
153.05	3877	162.20	640	170.90	1288	180.05	11647
154.05	3312	162.95	449	171.90	309	181.05	4668
155.05	5622	163.90	505	172.05	1921	181.95	954
156.05	9525	164.20	339	172.70	496	182.40	166
157.00	2110	164.95	4212	172.95	2365	182.70	249
157.95	2633	165.95	4379	174.05	5130	183.10	930
159.05	1816	166.95	22266	175.10	8549	183.95	1516

Average of 2.902 to 2.913 min.: 3m61147.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.05	8273	194.95	1318	205.05	27313	213.00	589
186.00	60069	196.05	15776	206.10	114728	214.10	132
187.00	18186	198.00	452203	207.00	15438	214.70	226
187.95	1776	199.00	30744	207.70	626	214.95	1208

188.95	3936	199.90	1234	208.00	4005	215.60	297
189.95	824	200.15	1450	209.05	1725	215.80	1188
191.05	2104	201.55	2930	210.30	1886	217.00	25991
192.05	5409	201.80	258	210.80	1741	218.00	3402
193.00	5857	202.70	186	211.05	2717	219.15	413
193.80	265	203.05	2963	211.80	304	219.70	340
194.10	1273	204.05	17115	212.00	753	220.00	661

Average of 2.902 to 2.913 min.: 3m61147.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.05	26858	230.05	898	237.10	2190	243.10	1435
221.90	794	231.05	2070	237.90	356	244.05	46021
223.00	4249	231.85	369	238.80	172	245.10	6410
223.20	3382	232.00	381	239.00	954	246.05	9518
224.10	61616	232.20	76	239.70	210	247.00	1994
225.05	16611	232.80	148	240.10	358	247.70	84
226.10	2286	233.10	298	240.30	410	247.95	371
227.00	26180	233.95	2095	240.90	453	249.00	1773
228.05	3584	235.10	1795	241.10	699	249.70	222
228.95	5193	235.90	168	241.95	3627	250.25	406
229.70	375	236.05	1264	242.80	357	251.10	430

Average of 2.902 to 2.913 min.: 3m61147.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
251.65	277	260.85	414	272.15	1187	283.00	709
252.00	481	263.00	110	273.05	7174	283.20	404
252.50	515	264.05	681	274.05	21137	283.95	567
253.10	1437	264.95	4842	275.00	105635	285.05	1562
253.60	371	266.00	680	276.05	13943	286.00	292
255.00	236115	266.90	248	277.00	8165	287.90	88
256.00	34407	267.80	30	277.80	960	288.60	112
257.05	2960	268.70	76	278.00	481	288.90	187
258.00	14353	269.90	496	278.90	391	289.10	212
259.00	2710	270.80	150	279.30	90	289.70	122
260.15	352	271.05	611	282.20	409	289.90	226

Average of 2.902 to 2.913 min.: 3m61147.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.20	253	299.90	109	312.00	276	324.85	253
290.80	172	300.90	393	313.05	354	327.00	1576
291.30	249	301.60	125	314.00	1671	328.10	1000
292.00	488	302.10	640	314.95	2721	329.10	80
293.00	1849	303.05	3443	316.05	1727	331.80	214
294.10	595	304.10	745	316.95	424	332.00	264
294.60	380	305.10	258	320.10	246	332.30	191
294.90	163	308.05	461	321.05	1230	332.90	1277
296.05	27776	309.10	207	322.10	540	334.05	5694
297.05	3814	309.40	100	323.05	9559	335.00	1504
298.00	366	309.95	380	324.05	1385	335.90	88

Average of 2.902 to 2.913 min.: 3m61147.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
336.20	224	352.00	2510	370.95	417	390.00	376
338.90	91	353.10	2254	372.05	4558	390.90	760
339.20	177	354.10	2779	373.05	1485	391.70	136
341.00	923	355.00	786	377.00	121	392.05	210
341.30	85	359.20	543	381.80	114	400.80	202
341.90	95	363.30	147	382.90	528	401.00	251
342.20	176	363.50	186	383.10	616	401.40	322
346.05	2005	365.00	11692	384.00	394	401.95	1857
347.05	396	366.05	2121	385.00	115	402.20	103
350.55	301	369.95	336	389.00	77	402.80	207
351.30	146	370.50	197	389.60	91	403.05	2862

Average of 2.902 to 2.913 min.: 3m61147.D\data.ms

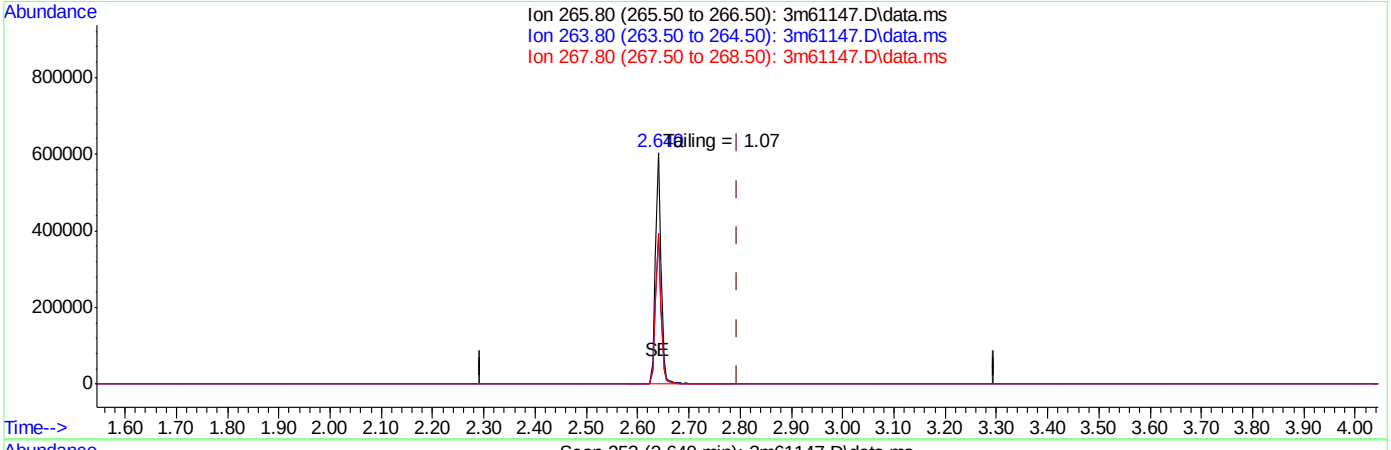
dftpp
Modified:subtracted

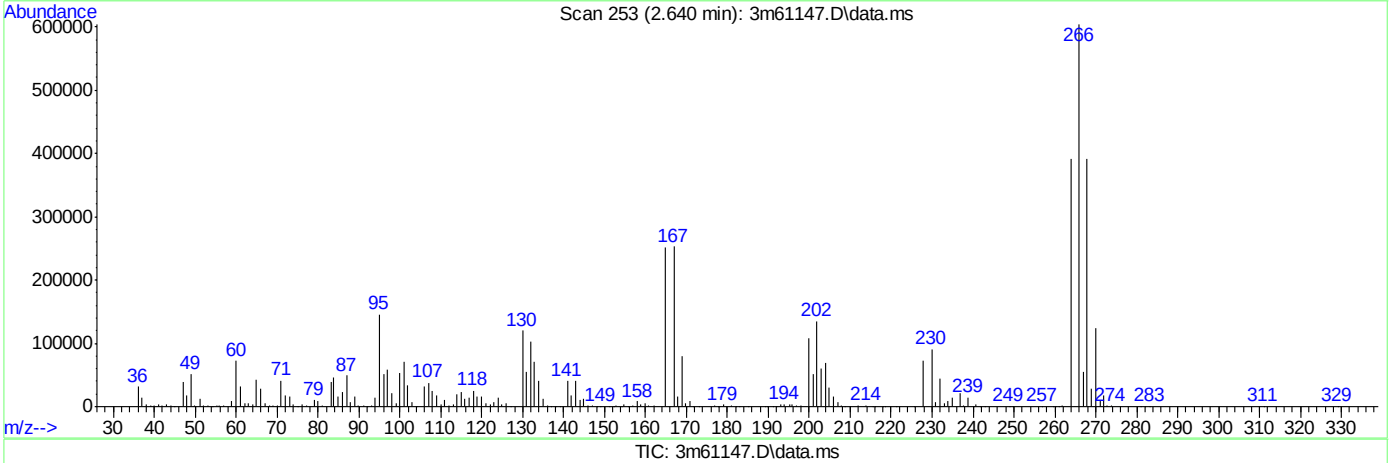
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.95	709	424.10	2989	435.00	177	442.10	319419
405.00	180	425.05	560	435.30	174	443.10	61953
414.70	187	427.10	95	435.90	333	444.10	5510
416.00	88	427.90	149	436.20	300	445.20	235
419.30	129	429.40	157	437.00	362		
419.80	80	430.60	131	437.30	714		
420.70	214	431.35	368	437.90	1029		
421.10	2611	432.10	94	438.45	998		
421.90	1127	432.40	169	439.05	1453		
422.10	1656	433.45	371	439.60	124		
423.05	16112	434.60	289	441.10	54872		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61147.D
Acq On : 6 May 2016 10:28 pm
Operator : juliusj
Sample : dftpp
Misc : op93629a,e3m2875
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 22:32:15 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: 3m61147.D\data.ms

(1) Pentachlorophenol (t)

2.640min (-0.155) 124.07ppb

response 457587

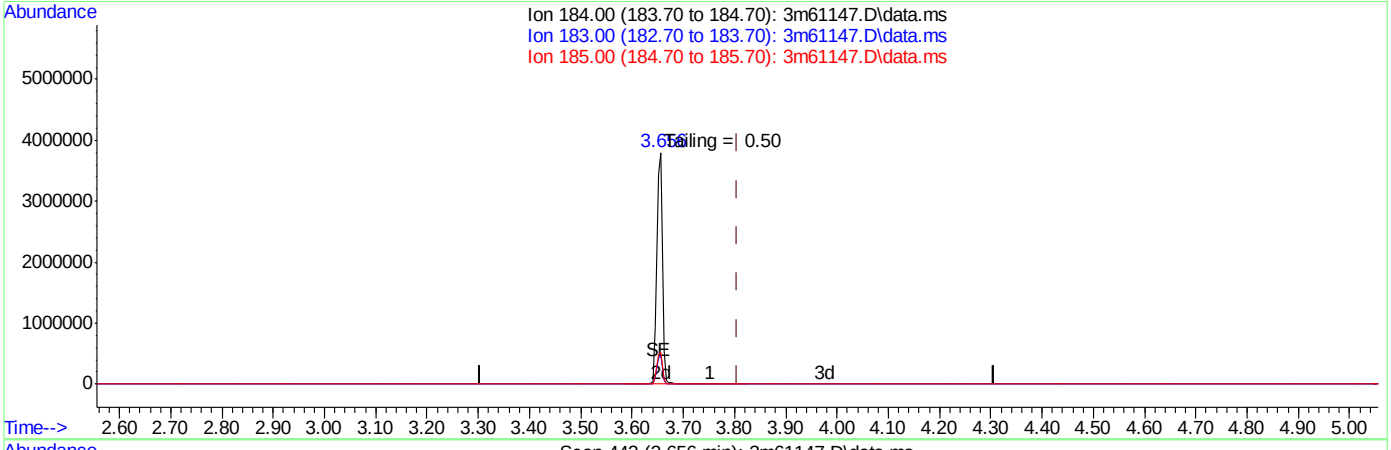
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	64.75
267.80	64.10	64.65
0.00	0.00	0.00

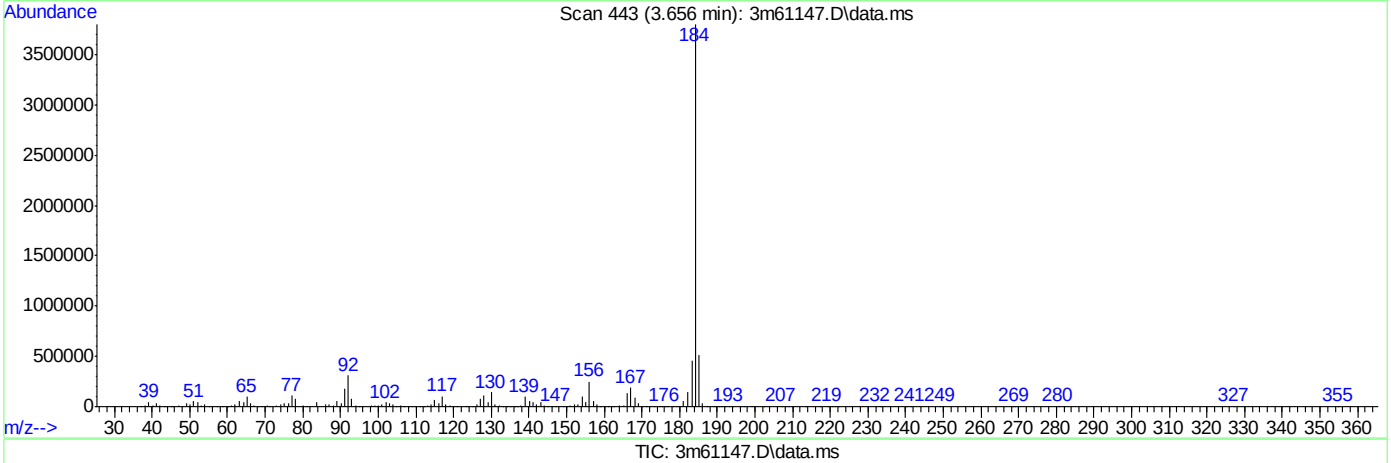
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61147.D
Acq On : 6 May 2016 10:28 pm
Operator : juliusj
Sample : dftpp
Misc : op93629a,e3m2875
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 22:32:15 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: 3m61147.D\data.ms

(2) Benzidine (t)

3.656min (-0.150) 159.11ppb m

response 2895421

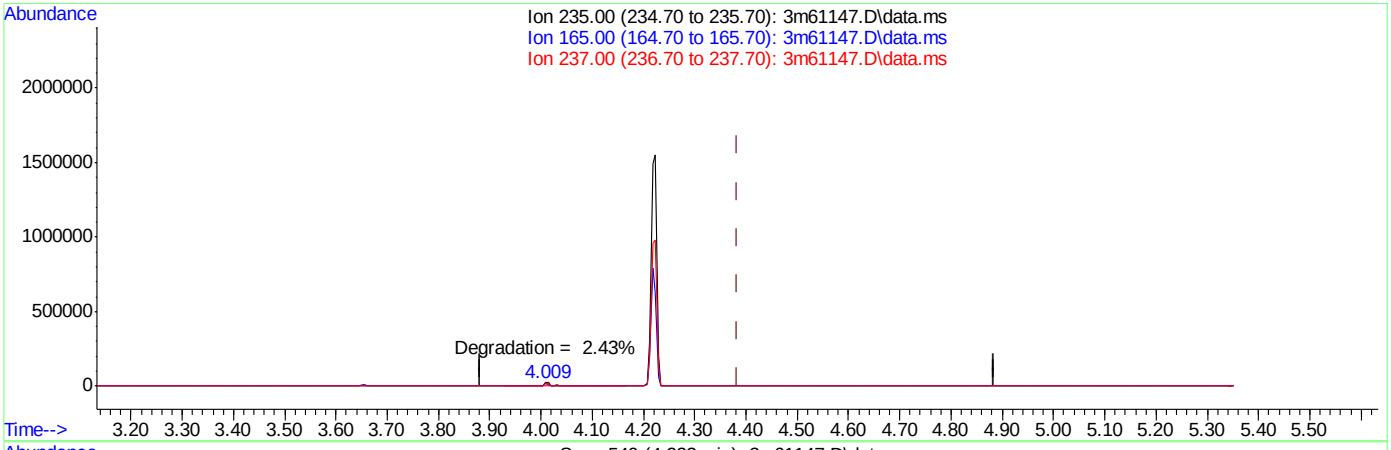
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	12.05
185.00	14.40	13.54
0.00	0.00	0.00

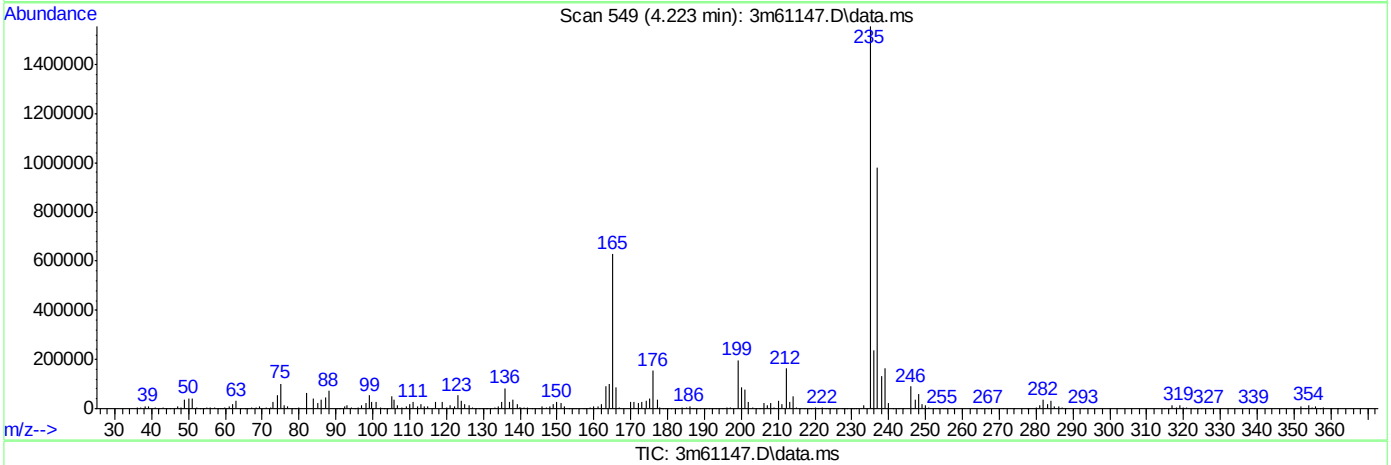
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61147.D
Acq On : 6 May 2016 10:28 pm
Operator : juliusj
Sample : dftpp
Misc : op93629a,e3m2875
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 22:32:15 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: 3m61147.D\data.ms

(3) PP-DDT (t)

4.223min (-0.160) 154.21ppb

response 1148652

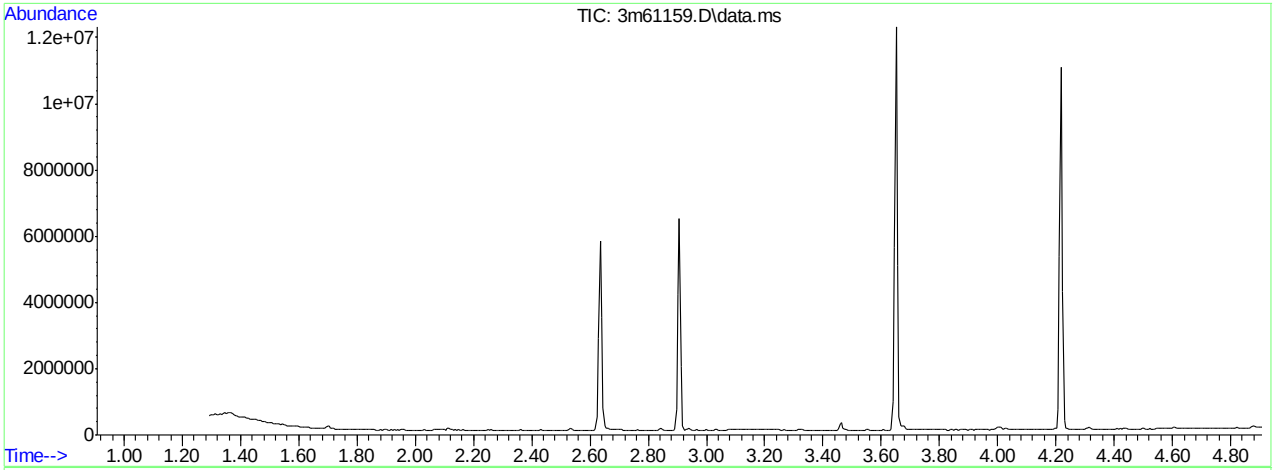
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	47.99#
237.00	0.00	63.79#
0.00	0.00	0.00

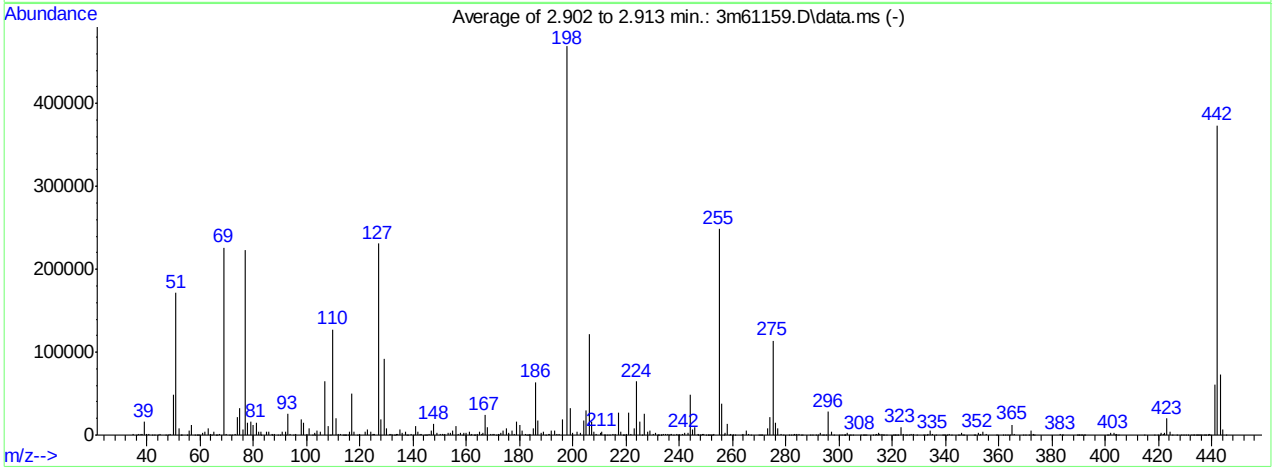
SGS ACCUTEST JC19759

DFTPP

Data File : C:\msdchem\1\DATA\E3M2876\3m61159.D Vial: 1
Acq On : 9 May 2016 8:51 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op93693a,e3m2876 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 302, 303, 304; Background Corrected with Scan 297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.6	171448	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.2	226149	PASS
70	69	0.00	2	0.6	1267	PASS
127	198	40	60	49.2	230808	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	468821	PASS
199	198	5	9	6.9	32547	PASS
275	198	10	30	24.3	113813	PASS
365	198	1	100	2.7	12602	PASS
441	443	0.10	100	83.6	60931	PASS
442	198	40	100	79.7	373525	PASS
443	442	17	23	19.5	72872	PASS

3m61159.D DFTPP3M.M Mon May 09 11:59:46 2016 RPT1

Average of 2.902 to 2.913 min.: 3m61159.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	1169	45.10	1126	57.00	12281	66.05	506
36.00	379	47.00	295	58.10	321	66.40	77
37.05	1740	48.00	331	58.90	207	67.25	1408
37.90	788	49.00	1877	59.20	205	69.00	226149
38.10	1760	50.05	48521	59.85	391	70.00	1267
39.00	15883	51.00	171448	61.10	2661	71.10	101
39.95	1244	52.05	8234	62.05	3517	72.05	258
41.00	1383	52.85	479	63.00	8075	73.05	1788
41.90	290	53.20	266	64.00	1473	74.05	22225
43.00	596	54.95	699	64.30	125	75.00	32850
44.00	131	56.00	6054	65.10	4209	76.10	7008

Average of 2.902 to 2.913 min.: 3m61159.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.00	222691	87.20	951	98.00	19019	109.00	418
78.00	14714	87.95	1092	99.00	14912	110.00	127389
78.95	15834	89.05	701	100.05	1720	111.00	19984
80.00	11906	89.90	97	101.05	8674	111.90	1633
81.05	15399	91.00	4266	102.05	525	112.95	852
82.05	3944	92.00	3492	103.00	3172	113.80	146
82.80	663	92.20	531	103.20	333	114.05	348
83.05	4054	92.95	25571	103.95	5419	114.60	222
84.95	3931	94.00	1437	105.00	4693	114.90	238
85.95	4552	95.15	479	107.00	64842	115.80	359
86.90	567	96.05	1165	108.00	11504	116.05	4630

Average of 2.902 to 2.913 min.: 3m61159.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.00	50723	127.95	19415	136.05	3180	144.80	274
118.00	3428	129.00	92191	137.00	4549	145.00	541
118.90	212	129.95	7781	137.70	341	145.90	2031
120.00	1235	131.15	1361	138.10	579	146.95	5270
122.00	4508	131.90	984	139.10	778	147.90	12908
123.00	6628	132.10	110	140.00	232	149.05	2273
123.95	3550	133.05	126	141.00	11460	150.05	956
124.95	1424	133.30	252	142.00	3979	150.95	922
125.20	1351	133.95	1412	142.85	1476	151.20	745
125.60	1017	134.20	1292	143.20	1103	151.40	321
127.00	230808	135.00	6985	144.15	714	152.00	1512

Average of 2.902 to 2.913 min.: 3m61159.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.00	3181	162.05	1117	170.60	752	178.95	16210
154.00	2743	162.85	260	171.15	540	180.00	11888
155.00	5129	163.20	355	172.00	1862	181.05	4974
156.05	10672	164.15	1264	172.20	287	182.05	1256
156.90	2034	165.00	4361	173.05	2737	182.70	440
157.95	2188	165.90	1743	174.00	4827	183.05	557
158.70	143	166.10	2786	175.00	8807	183.60	311
158.95	2111	167.00	23716	175.90	1035	184.05	828
160.00	3246	167.95	9423	176.10	2288	185.05	8485
161.00	4325	169.00	2067	177.05	4897	186.05	63736
161.80	171	169.95	1056	178.00	909	187.05	17448

Average of 2.902 to 2.913 min.: 3m61159.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.00	2187	199.00	32547	211.05	4252	220.20	1169
188.95	4051	200.05	2721	211.80	437	221.10	27728
189.80	453	201.40	3521	212.20	560	221.80	1034
190.90	762	203.05	3422	213.00	441	223.05	7527

191.20	961	204.05	17848	214.00	92	224.00	64861
192.05	5153	205.10	29838	215.05	1344	225.05	16408
193.05	5998	206.10	121976	216.05	998	226.00	695
193.90	1610	207.00	15740	217.00	27479	227.00	26243
194.95	1387	208.00	3774	218.05	3751	228.05	3431
196.00	18656	208.95	1127	218.70	109	229.00	4949
198.00	468821	210.55	2494	219.10	414	230.05	930

Average of 2.902 to 2.913 min.: 3m61159.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
231.00	2245	237.10	1065	246.00	9549	251.60	160
231.80	189	237.95	418	246.90	486	252.05	579
232.10	347	238.95	1177	247.05	1499	252.40	220
232.30	115	239.60	152	247.85	451	253.05	850
233.00	175	239.90	363	248.10	249	255.00	248661
233.20	243	240.10	531	248.95	1088	256.00	37720
234.00	1896	241.05	1822	249.20	1048	256.80	687
235.00	1863	242.00	2917	249.95	573	257.05	3210
235.90	1121	243.20	2820	250.70	194	258.05	13025
236.30	588	244.10	48800	251.00	254	258.90	580
236.90	983	245.10	6749	251.30	118	259.10	1682

Average of 2.902 to 2.913 min.: 3m61159.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
259.90	93	271.10	564	283.05	895	293.95	621
260.10	570	273.00	8680	283.80	261	294.30	148
260.95	456	274.10	21544	284.20	832	295.10	285
263.40	172	275.05	113813	285.05	1712	296.00	28053
264.05	936	276.10	15193	285.80	195	297.10	4714
265.05	5494	277.05	7604	286.20	221	297.95	326
266.10	1054	278.10	1730	289.00	273	300.10	107
266.95	347	278.95	250	290.20	134	301.05	414
269.80	315	281.05	275	291.10	137	301.70	102
270.10	94	281.90	86	292.05	669	302.00	313
270.60	96	282.90	192	293.05	2260	302.20	155

Average of 2.902 to 2.913 min.: 3m61159.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
303.20	2903	314.00	1392	321.20	397	331.80	84
303.80	621	314.20	375	321.80	160	332.05	706
304.20	618	314.90	2546	322.10	632	332.80	244
304.95	283	315.10	782	323.10	9796	333.15	943
308.05	626	316.05	1973	324.05	1828	334.10	5908
309.00	334	316.70	88	325.05	287	335.15	1604
309.30	123	317.10	113	325.35	276	336.10	400
309.80	204	317.70	81	326.10	137	339.00	79
310.15	336	320.10	90	327.00	1862	339.20	120
312.90	325	320.70	265	327.95	1076	339.80	349
313.60	186	320.95	424	329.05	168	340.60	194

Average of 2.902 to 2.913 min.: 3m61159.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.15	921	353.05	1972	369.00	104	389.80	182
342.00	374	354.10	3488	370.15	564	390.00	134
344.60	88	355.10	788	371.10	396	390.30	176
345.10	128	359.00	409	372.10	5372	390.90	308
345.95	2242	359.30	87	372.80	320	391.10	256
346.50	129	361.60	86	373.05	952	391.80	150
347.00	258	362.40	102	373.30	304	392.20	171
350.70	92	363.20	472	383.10	1340	400.90	235
350.90	117	363.90	138	383.70	165	401.15	364
352.10	3055	365.05	12602	384.00	164	402.10	2434
352.60	224	365.95	1746	389.20	96	403.05	2671

Average of 2.902 to 2.913 min.: 3m61159.D\data.ms

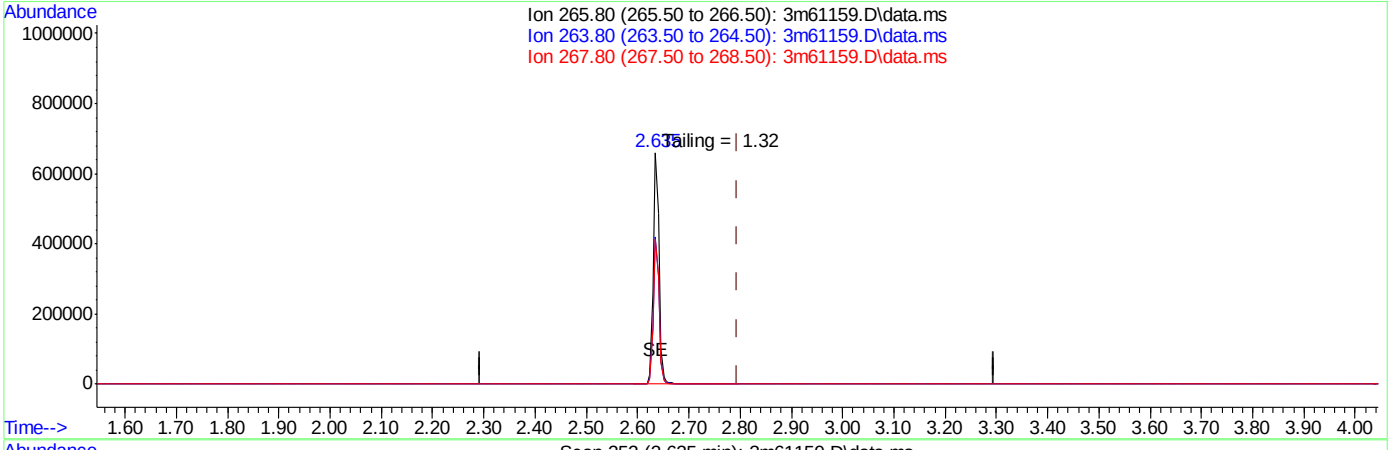
dftpp
Modified:subtracted

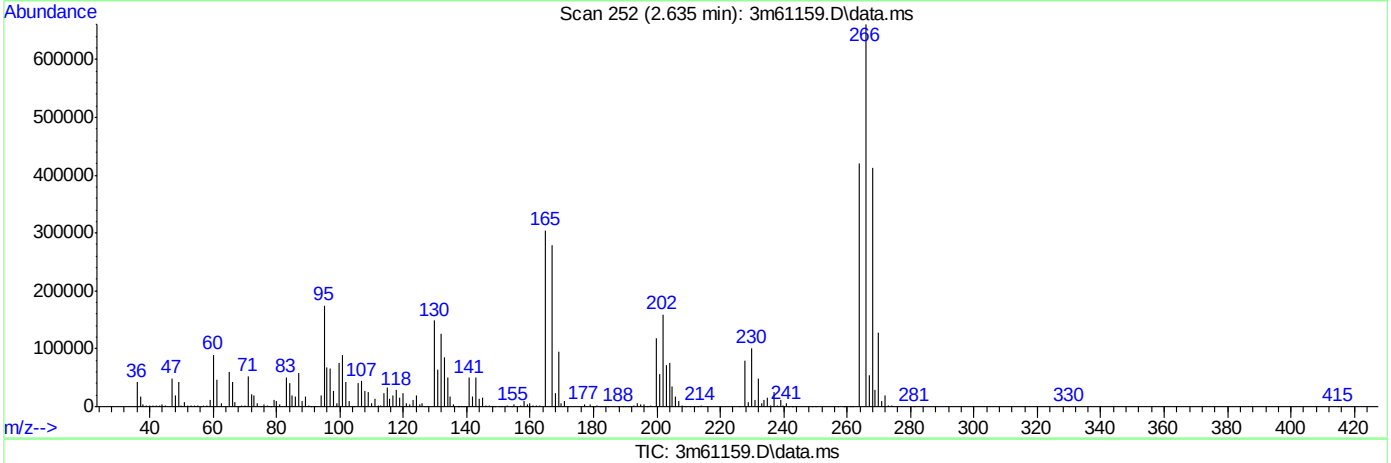
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.70	302	423.10	20256	433.95	269	439.00	1172
404.00	776	424.10	4645	434.30	162	439.30	346
404.20	159	425.05	287	434.85	287	441.10	60931
405.00	92	426.80	73	435.35	251	442.10	373525
414.70	117	428.60	88	435.80	156	443.10	72872
418.50	99	429.20	117	436.00	243	444.05	7284
419.70	213	430.10	174	436.75	340	445.15	371
420.30	144	431.00	153	437.40	511		
421.10	2248	432.20	160	437.65	489		
421.80	786	433.10	102	438.40	505		
422.10	2124	433.30	116	438.60	598		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2876\
Data File : 3m61159.D
Acq On : 9 May 2016 8:51 am
Operator : linseyk
Sample : dftpp
Misc : op93693a,e3m2876
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 08:55:38 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: 3m61159.D\data.ms

(1) Pentachlorophenol (t)

2.635min (-0.160) 138.57ppb

response 511074

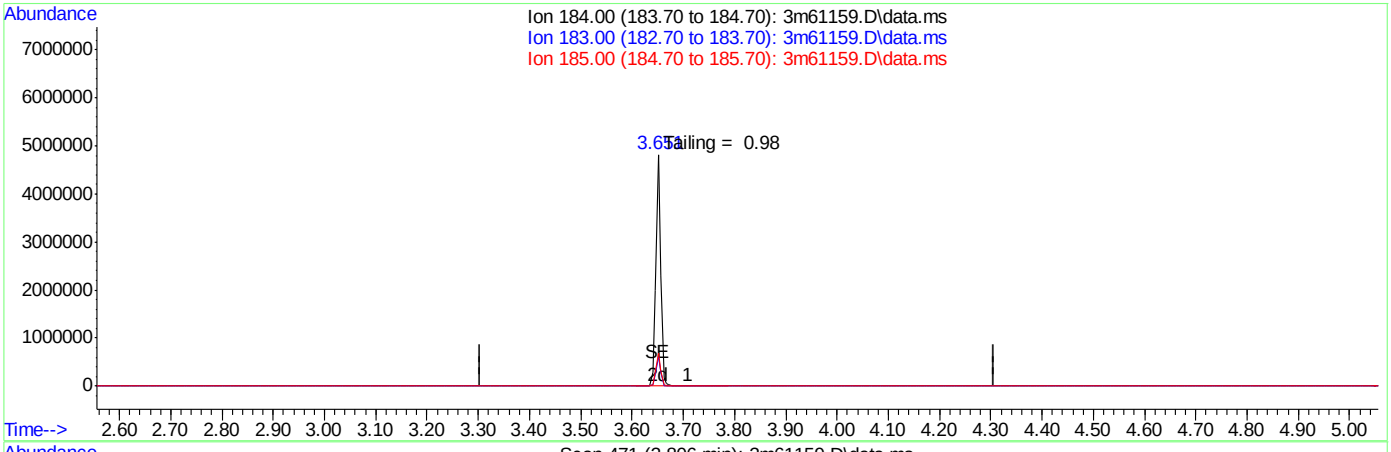
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	63.71
267.80	64.10	62.45
0.00	0.00	0.00

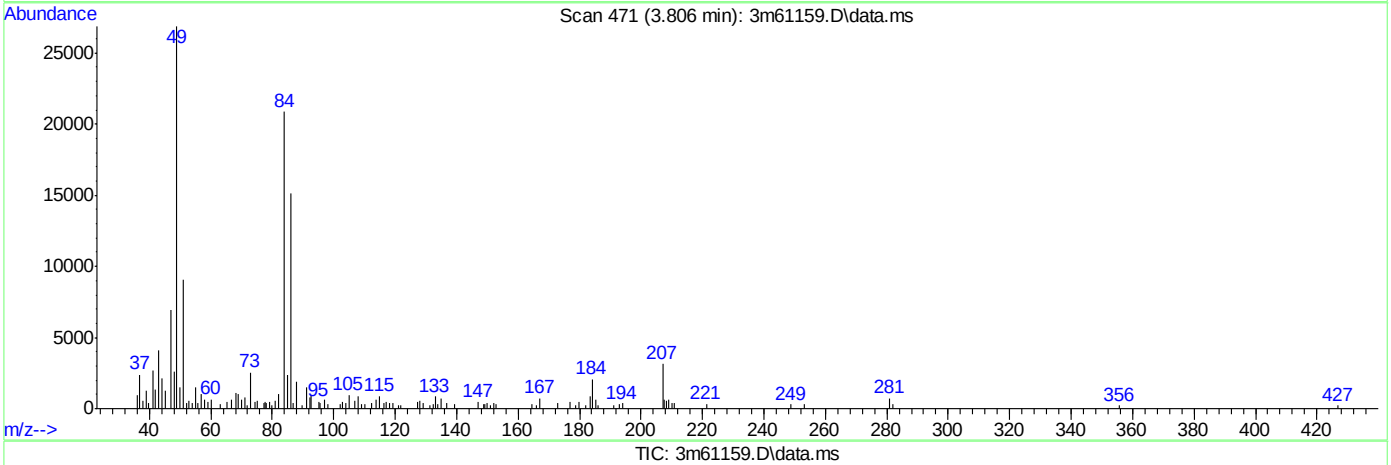
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2876\
Data File : 3m61159.D
Acq On : 9 May 2016 8:51 am
Operator : linseyk
Sample : dftpp
Misc : op93693a,e3m2876
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 08:55:38 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: 3m61159.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

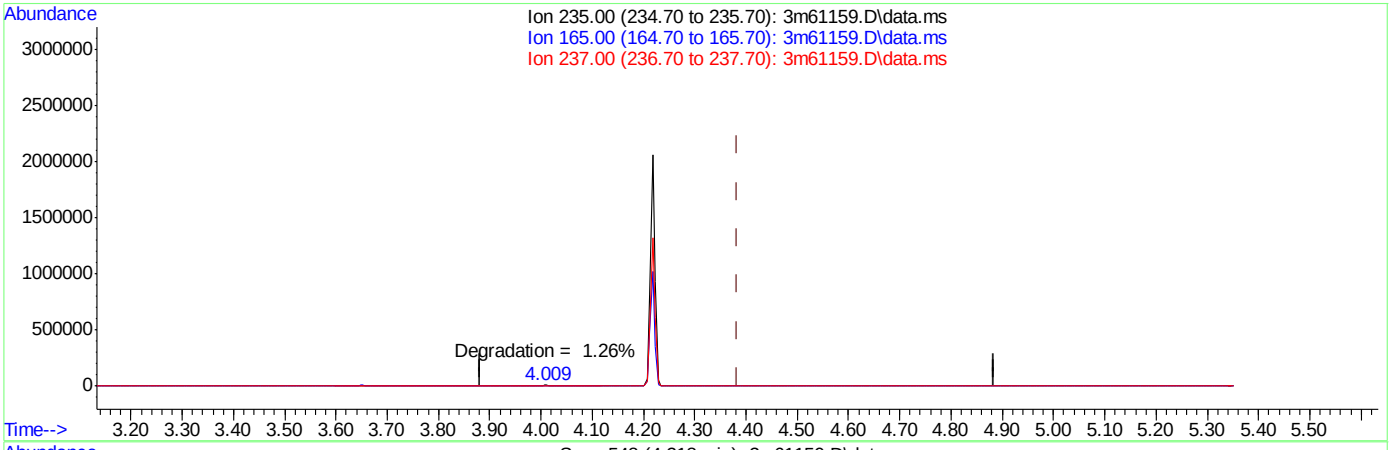
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

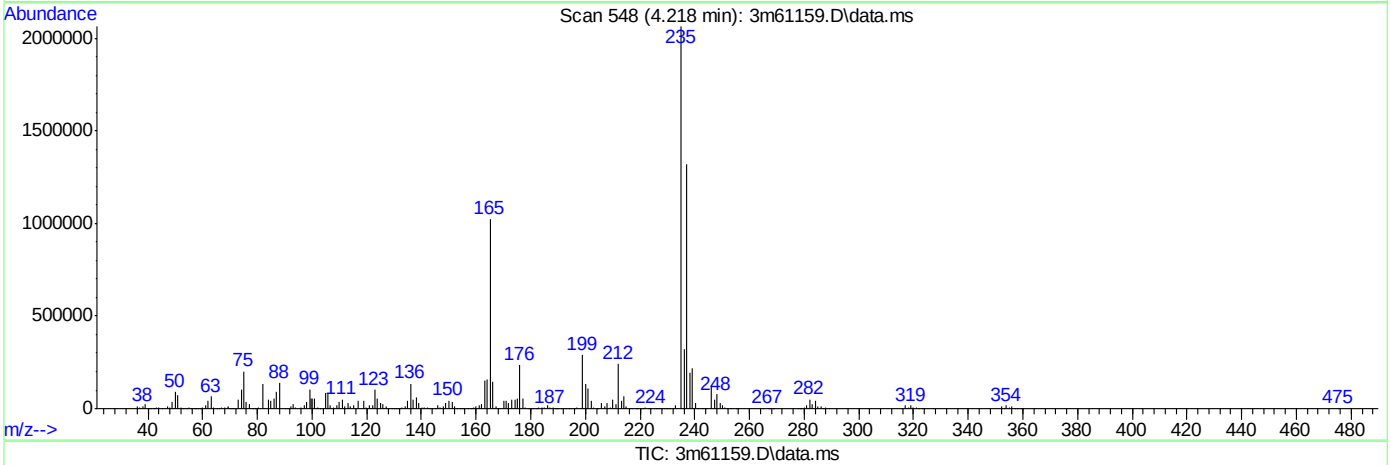
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2876\
Data File : 3m61159.D
Acq On : 9 May 2016 8:51 am
Operator : linseyk
Sample : dftpp
Misc : op93693a,e3m2876
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 08:55:38 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: 3m61159.D\data.ms

(3) PP-DDT (t)

4.218min (-0.166) 169.93ppb

response 1265791

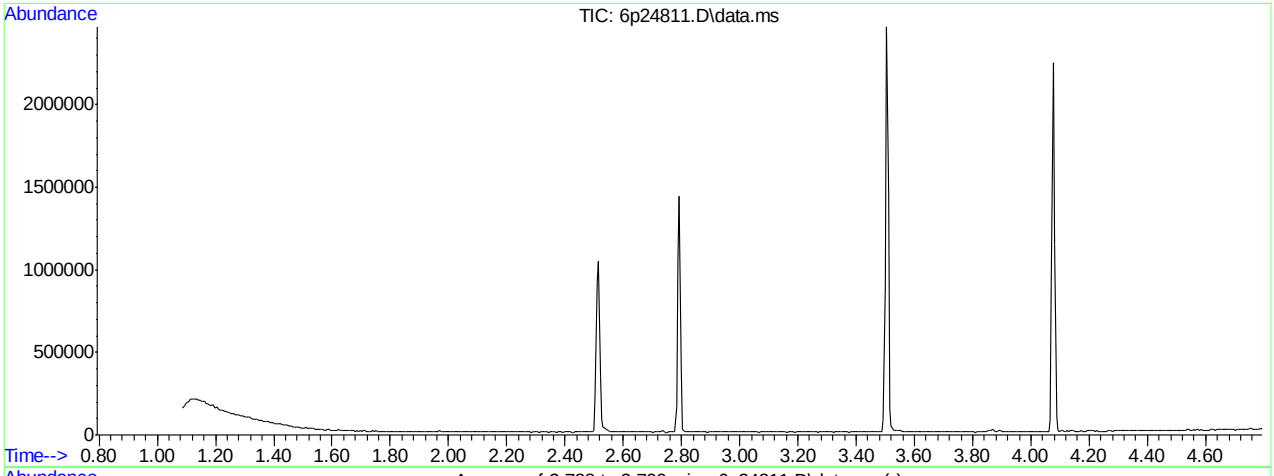
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	49.06#
237.00	0.00	64.53#
0.00	0.00	0.00

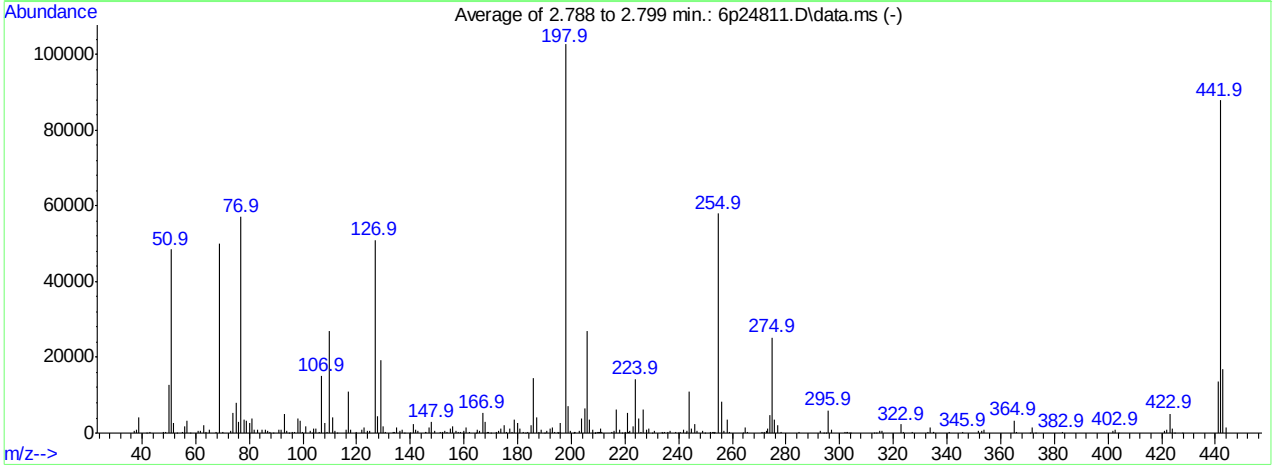
SGS ACCUTEST JC19759

DFTPP

Data File : C:\msdchem\1\DATA\E6P1155\6p24811.D Vial: 1
Acq On : 5 Apr 2016 4:34 pm Operator: sarad
Sample : dftpp Inst : MS6P
Misc : op92208,e6p1155 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1155.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016





AutoFind: Scans 319, 320, 321; Background Corrected with Scan 314

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.2	48460	PASS
68	69	0.00	2	0.4	223	PASS
69	198	0.00	100	48.8	50030	PASS
70	69	0.00	2	0.9	440	PASS
127	198	40	60	49.7	51010	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	102584	PASS
199	198	5	9	6.8	7012	PASS
275	198	10	30	24.6	25214	PASS
365	198	1	100	3.3	3390	PASS
441	443	0.10	100	80.3	13622	PASS
442	198	40	100	85.7	87869	PASS
443	442	17	23	19.3	16959	PASS

6p24811.D M6P1155.M Wed Apr 06 09:46:33 2016 ACLIMS

Average of 2.788 to 2.799 min.: 6p24811.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	580	54.90	414	69.90	440	82.85	1033
37.85	871	55.90	1677	72.90	498	84.90	971
38.85	4246	56.90	3203	73.90	5289	85.80	983
41.85	43	57.80	105	74.90	7880	86.90	623
42.90	249	60.85	743	75.95	2904	87.80	428
47.75	175	61.90	601	76.90	57006	88.90	105
48.90	173	62.90	2104	77.90	3544	90.90	879
49.90	12758	63.85	272	78.90	3403	91.90	786
50.85	48460	64.90	910	79.90	2686	92.90	5180
51.90	2643	67.75	223	80.90	3793	93.90	494
52.80	107	68.90	50030	81.90	834	94.90	105

Average of 2.788 to 2.799 min.: 6p24811.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.90	369	106.90	15022	121.80	893	134.90	1364
96.80	248	107.90	2586	122.90	1564	135.95	548
97.90	3967	108.95	428	123.85	613	136.95	783
98.90	3328	109.90	26857	124.85	695	137.80	101
99.90	413	110.90	4167	126.90	51010	139.80	154
100.85	1851	111.95	502	127.90	4419	140.90	2330
102.85	535	112.80	113	128.90	19344	141.90	818
103.60	108	115.85	897	129.95	1778	142.90	565
103.85	1070	116.90	10865	130.85	220	145.70	197
104.90	1254	117.90	786	133.70	177	145.90	228
105.85	293	119.80	289	133.90	296	146.95	1481

Average of 2.788 to 2.799 min.: 6p24811.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.90	2896	159.85	490	171.85	421	183.00	107
148.90	531	160.90	1345	172.85	505	183.90	346
150.95	321	161.85	328	173.85	1131	184.90	2045
151.90	179	164.60	111	174.90	2171	185.90	14485
152.85	677	164.90	892	175.90	447	186.90	4018
153.85	386	165.85	747	176.90	1055	187.85	388
154.95	1336	166.90	5243	177.90	364	188.80	897
155.90	1935	167.85	2877	178.85	3491	189.80	117
156.90	504	168.80	219	179.90	2729	190.75	525
157.85	397	169.00	178	180.90	1329	191.90	1313
158.85	396	169.90	156	181.90	319	192.90	1443

Average of 2.788 to 2.799 min.: 6p24811.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
193.90	190	202.85	662	210.90	1089	222.85	1905
194.80	144	203.95	3971	211.50	193	223.90	14263
195.00	285	204.90	6463	214.90	247	224.90	3858
195.70	341	205.90	27007	215.95	726	225.80	206
195.95	2747	206.90	3504	216.80	6280	226.90	6357
197.90	102584	207.90	811	217.85	849	227.90	990
198.90	7012	208.70	140	219.00	116	228.90	1239
199.80	619	208.90	125	220.00	163	229.90	130
200.80	108	209.80	418	220.90	5253	230.85	535
201.10	280	210.10	160	221.50	200	233.70	107
201.45	454	210.50	262	221.90	603	233.85	383

Average of 2.788 to 2.799 min.: 6p24811.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
234.90	233	245.90	2469	256.85	654	274.90	25214
235.75	348	246.80	539	257.90	3619	275.85	3591
236.80	575	248.80	510	258.80	407	276.90	2126
238.80	199	249.90	105	263.90	135	277.95	364

239.80	117	251.95	271	264.85	1361	284.85	381
240.75	361	252.50	169	265.80	271	292.90	460
241.95	808	252.90	127	271.00	179	293.90	116
242.70	158	253.20	283	271.90	182	294.80	107
242.90	610	253.70	169	272.80	572	295.90	5953
243.95	10818	254.90	57949	272.95	1324	296.85	977
244.90	1233	255.90	8266	273.90	4881	301.80	214

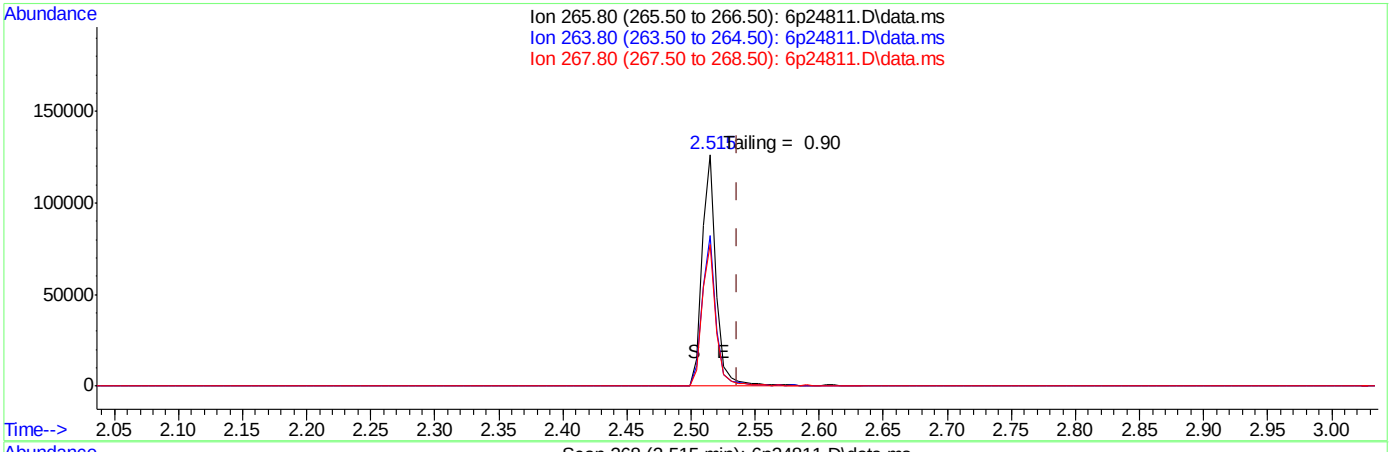
Average of 2.788 to 2.799 min.: 6p24811.D\data.ms
dftpp
Modified:subtracted

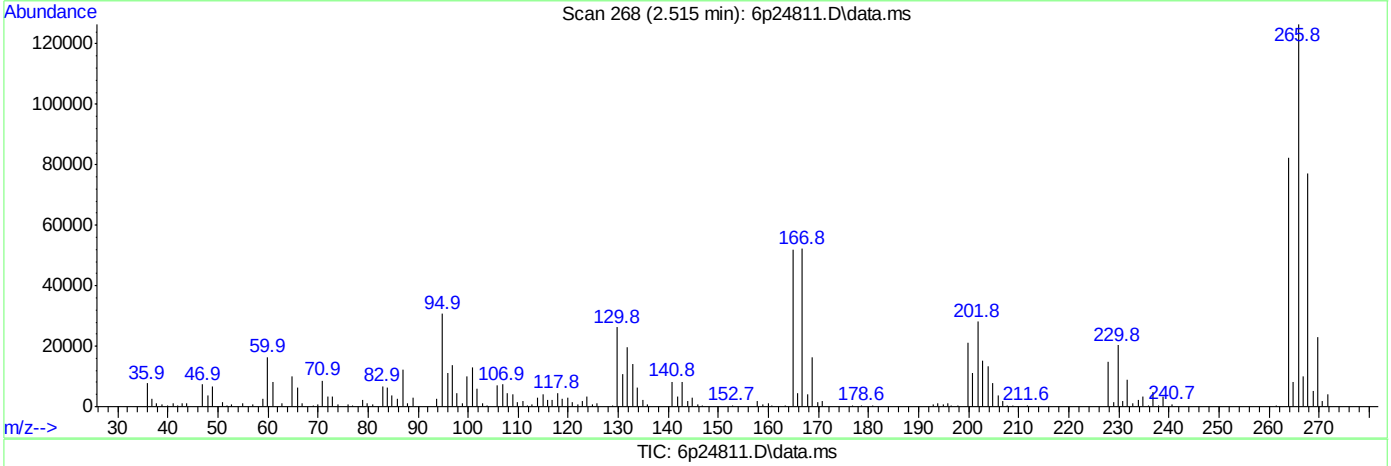
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
302.70	366	333.00	174	370.90	148	424.80	104
302.90	400	333.90	1608	371.80	1437	427.90	104
303.70	114	334.80	266	372.90	139	440.90	13622
304.00	129	335.00	185	382.90	187	441.90	87869
312.80	100	340.85	257	401.90	621	442.90	16959
313.80	155	345.85	399	402.85	843	443.85	1414
314.85	701	351.80	603	403.70	149		
315.85	595	352.75	552	420.90	621		
322.95	2285	353.85	993	421.95	829		
323.70	165	364.85	3390	422.95	5062		
326.90	315	365.90	307	423.90	1101		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24811.D
Acq On : 5 Apr 2016 4:34 pm
Operator : sarad
Sample : dftpp
Misc : op92208,e6p1155
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 05 19:32:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p24811.D\data.ms

(1) Pentachlorophenol (t)

2.515min (-0.021) 0.00ppb

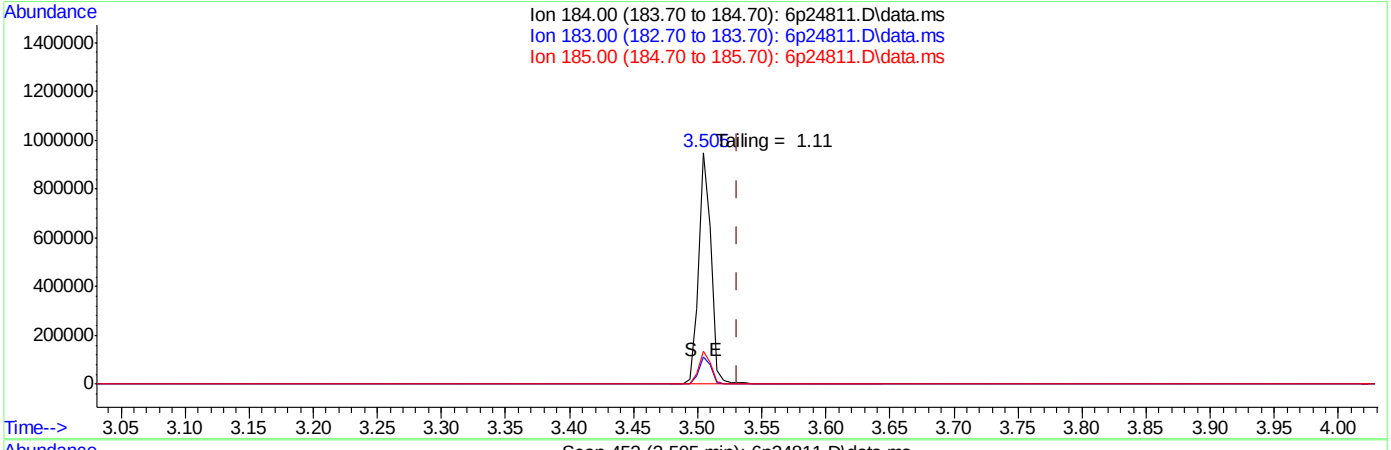
response 98756

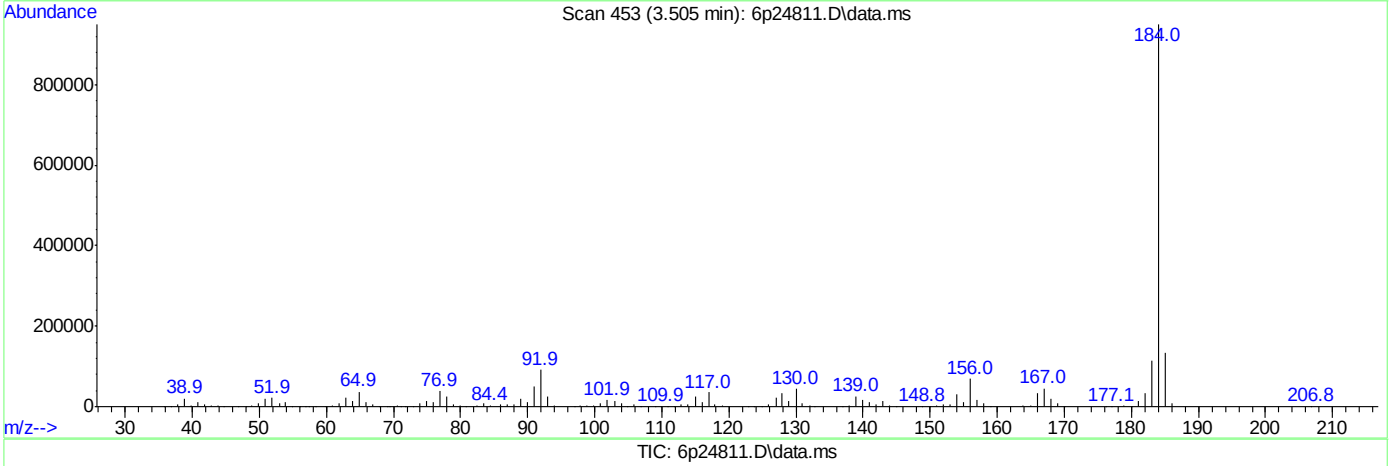
Ion	Exp%	Act%
265.80	100	100
263.80	62.70	65.22
267.80	62.60	60.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24811.D
Acq On : 5 Apr 2016 4:34 pm
Operator : sarad
Sample : dftpp
Misc : op92208,e6p1155
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 05 19:32:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p24811.D\data.ms

(2) Benzidine (t)

3.505min (-0.027) 0.00ppb

response 654397

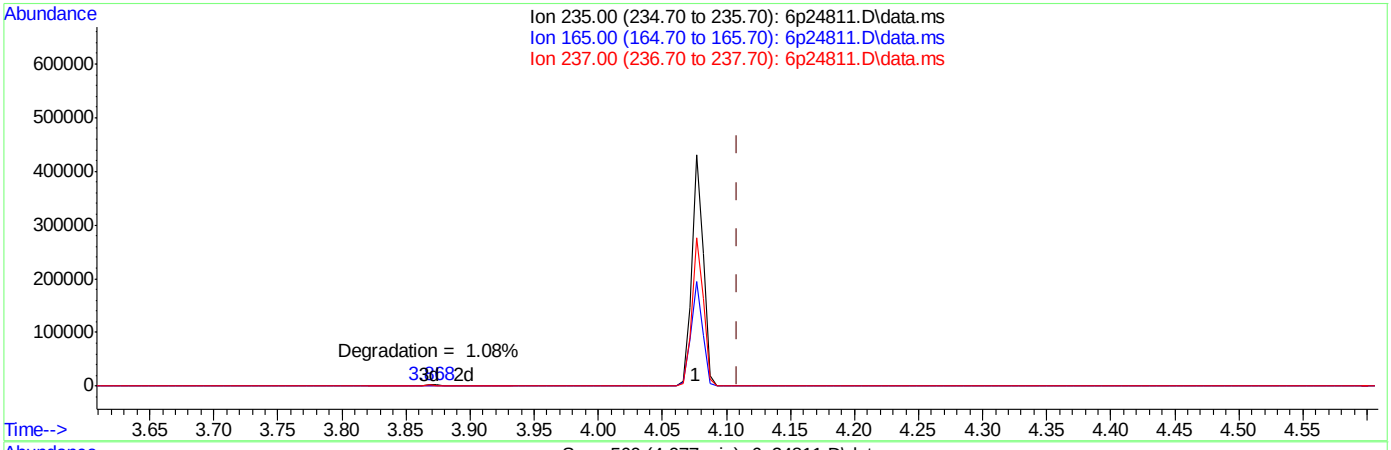
Ion	Exp%	Act%
184.00	100	100
183.00	11.10	11.92
185.00	13.90	13.99
0.00	0.00	0.00

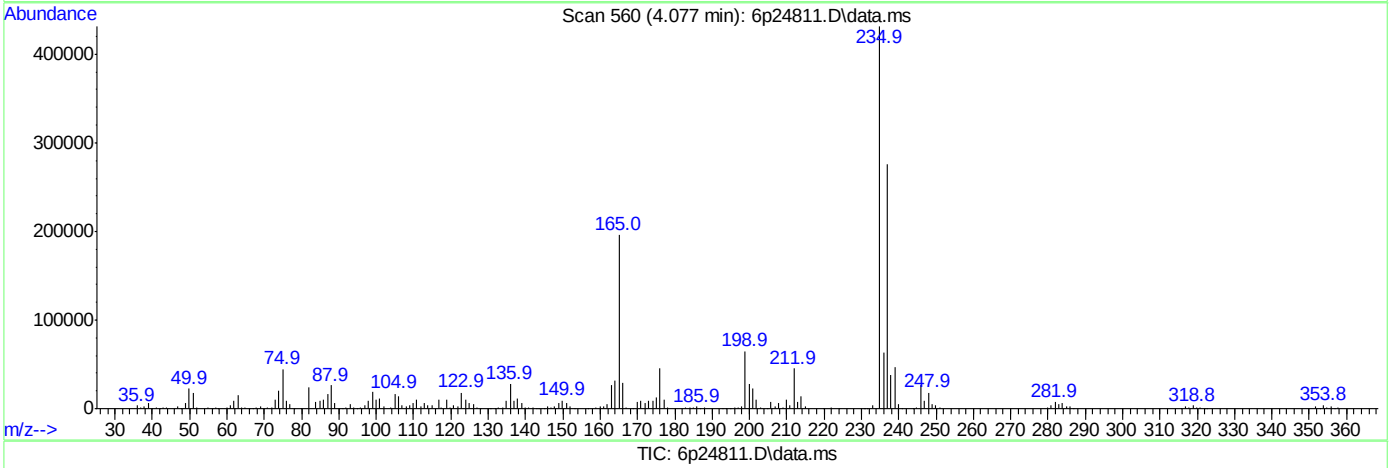
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24811.D
Acq On : 5 Apr 2016 4:34 pm
Operator : sarad
Sample : dftpp
Misc : op92208,e6p1155
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 05 19:32:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p24811.D\data.ms

(3) PP-DDT (t)

4.077min (-0.032) 0.00ppb

response 274308

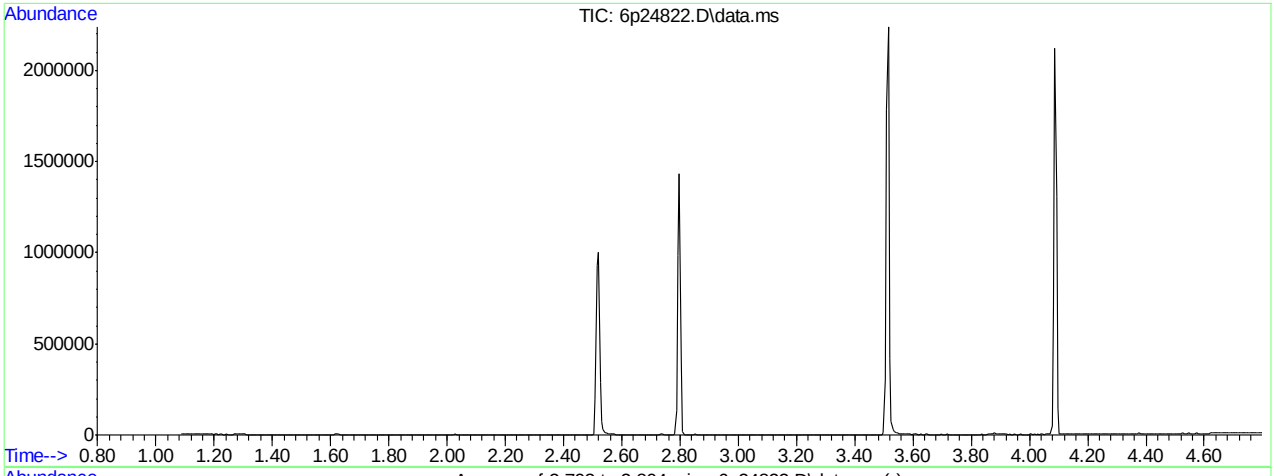
Ion	Exp%	Act%
235.00	100	100
165.00	93.70	45.57#
237.00	85.60	64.21
0.00	0.00	0.00

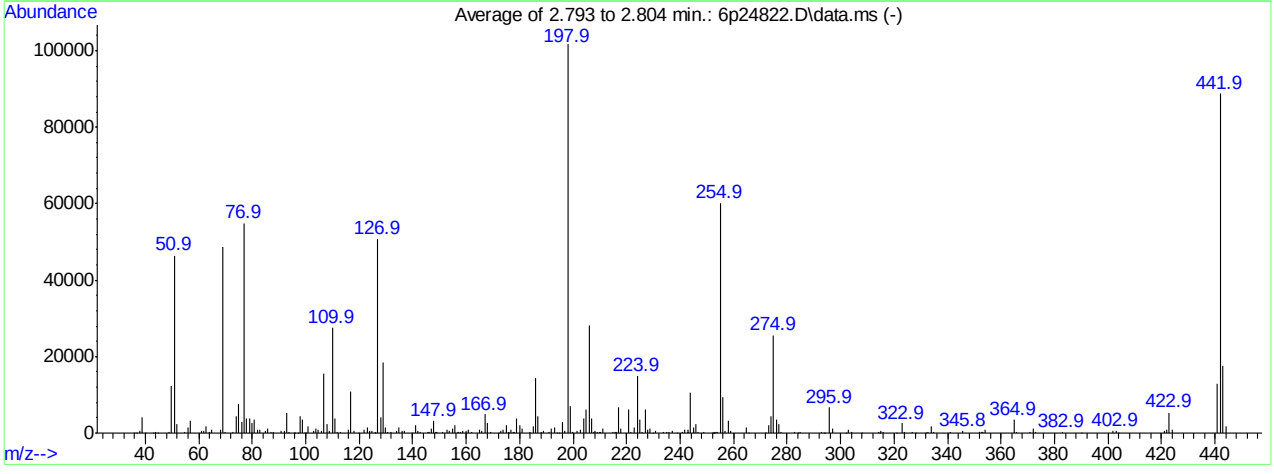
SGS ACCUTEST JC19759

DFTPP

Data File : C:\msdchem\1\DATA\E6P1156\6p24822.D Vial: 1
Acq On : 5 Apr 2016 9:19 pm Operator: sarad
Sample : dftpp Inst : MS6P
Misc : op92208,e6p1156 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um





AutoFind: Scans 320, 321, 322; Background Corrected with Scan 315

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.6	46348	PASS
68	69	0.00	2	1.9	918	PASS
69	198	0.00	100	47.9	48667	PASS
70	69	0.00	2	0.4	179	PASS
127	198	40	60	50.0	50835	PASS
197	198	0.00	1	0.5	476	PASS
198	198	100	100	100.0	101653	PASS
199	198	5	9	6.9	6994	PASS
275	198	10	30	25.1	25561	PASS
365	198	1	100	3.4	3422	PASS
441	443	0.10	100	72.8	12914	PASS
442	198	40	100	87.3	88746	PASS
443	442	17	23	20.0	17735	PASS

6p24822.D DFTPP6P.M Wed Apr 06 09:31:15 2016 ACLIMS

Average of 2.793 to 2.804 min.: 6p24822.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.70	104	51.90	2489	69.70	179	82.85	965
36.80	124	54.75	402	72.90	392	84.85	631
37.90	547	55.90	1332	73.90	4507	85.85	1042
38.95	4064	56.90	3196	74.90	7605	86.90	430
39.90	140	60.85	507	75.90	2831	87.85	263
42.90	129	61.85	600	76.90	54936	90.80	661
43.80	199	62.90	1865	77.90	3918	91.85	735
44.80	116	63.95	261	78.90	3738	92.90	5385
48.90	228	64.90	898	79.90	2683	93.80	346
49.90	12371	67.95	918	80.90	3498	95.70	110
50.90	46348	68.90	48667	81.85	865	95.90	118

Average of 2.793 to 2.804 min.: 6p24822.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.10	100	107.90	2469	122.90	1432	133.85	633
97.85	4300	108.95	623	123.80	583	134.85	1496
98.90	3406	109.90	27485	124.85	529	135.90	471
99.70	106	110.90	3862	125.80	201	136.85	741
100.00	120	111.80	439	126.10	138	139.70	118
100.90	1900	112.80	249	126.90	50835	140.90	2169
102.90	480	116.00	871	127.95	4182	141.85	734
103.90	1281	116.90	10842	128.90	18558	142.90	430
104.80	1027	117.90	639	129.85	1502	145.70	165
106.00	495	119.90	139	130.80	229	145.90	326
106.90	15613	121.85	809	131.80	176	146.90	1173

Average of 2.793 to 2.804 min.: 6p24822.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.90	3194	158.85	458	173.90	861	184.90	1885
148.70	238	159.85	622	174.90	1923	185.90	14274
148.90	299	160.95	914	175.70	116	186.90	4403
151.00	391	161.90	300	176.00	279	187.85	333
152.90	920	164.85	948	176.90	1001	188.90	627
153.85	627	165.85	660	177.70	170	190.90	393
154.85	1241	166.90	4907	178.00	202	191.90	1252
155.95	1988	167.90	2522	178.90	3769	192.90	1464
156.80	180	169.00	233	179.90	2186	193.80	126
157.00	244	171.90	129	180.90	1255	194.90	154
157.90	301	172.85	579	183.90	419	195.90	2828

Average of 2.793 to 2.804 min.: 6p24822.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
196.70	476	207.80	241	220.90	6041	233.75	346
197.90	101653	207.95	522	221.60	184	234.90	441
198.80	6994	208.85	285	222.90	1594	235.80	378
199.70	175	209.90	268	223.90	14855	236.90	538
199.90	367	210.20	191	224.90	3653	238.80	131
201.35	554	210.95	1163	225.90	402	240.85	310
202.80	798	214.95	370	226.90	6106	241.85	931
203.90	3915	215.60	186	227.80	983	242.80	337
204.90	6313	215.90	320	228.80	1147	243.00	759
205.95	28041	216.90	6883	230.00	142	243.90	10477
206.90	3701	217.95	1045	230.85	625	244.90	1377

Average of 2.793 to 2.804 min.: 6p24822.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
245.10	166	255.90	9369	276.90	2403	302.85	1033
245.90	2280	256.90	657	277.75	360	304.00	251
246.80	360	257.90	3276	282.95	307	308.00	110
248.75	405	258.85	488	284.00	133	314.00	166

252.00	138	264.85	1333	284.70	418	314.60	127
252.30	149	265.70	133	292.90	366	314.90	649
252.70	138	272.00	141	293.70	141	315.80	355
253.00	244	272.90	2052	294.10	102	320.90	123
253.60	230	273.90	4480	295.90	6612	322.95	2504
254.00	199	274.90	25561	296.85	1125	323.70	201
254.90	60200	275.90	3493	302.00	148	326.85	449

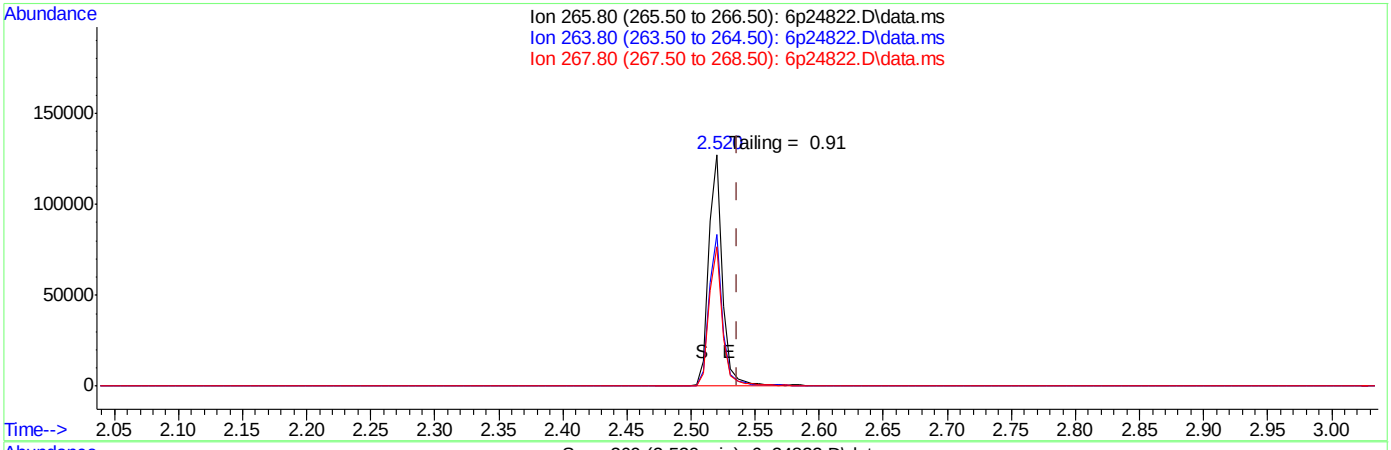
Average of 2.793 to 2.804 min.: 6p24822.D\data.ms
dftpp
Modified:subtracted

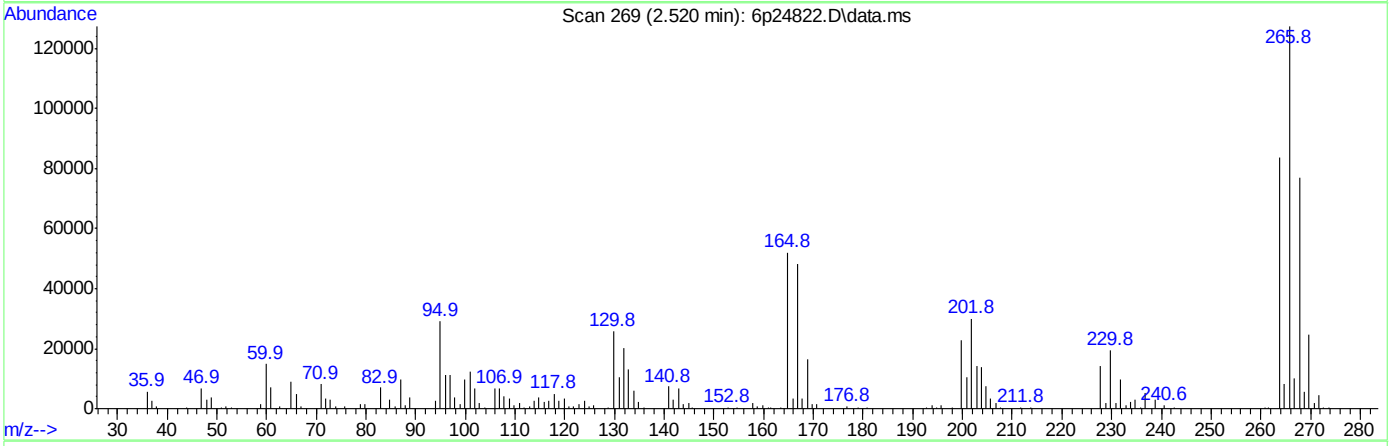
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
328.00	112	353.90	779	420.90	728		
331.80	112	364.85	3422	421.85	871		
332.80	177	365.80	301	422.90	5342		
333.85	1781	370.80	198	423.85	982		
334.80	312	371.90	1327	440.90	12914		
340.85	288	372.95	262	441.90	88746		
345.80	555	382.90	211	442.90	17735		
351.80	369	390.00	115	443.95	1694		
352.00	351	401.85	554				
352.80	336	402.85	574				
353.00	163	403.80	125				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24822.D
Acq On : 5 Apr 2016 9:19 pm
Operator : sarad
Sample : dftpp
Misc : op92208,e6p1156
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:31:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p24822.D\data.ms

(1) Pentachlorophenol (t)

2.520min (-0.016) 0.00ppb

response 97156

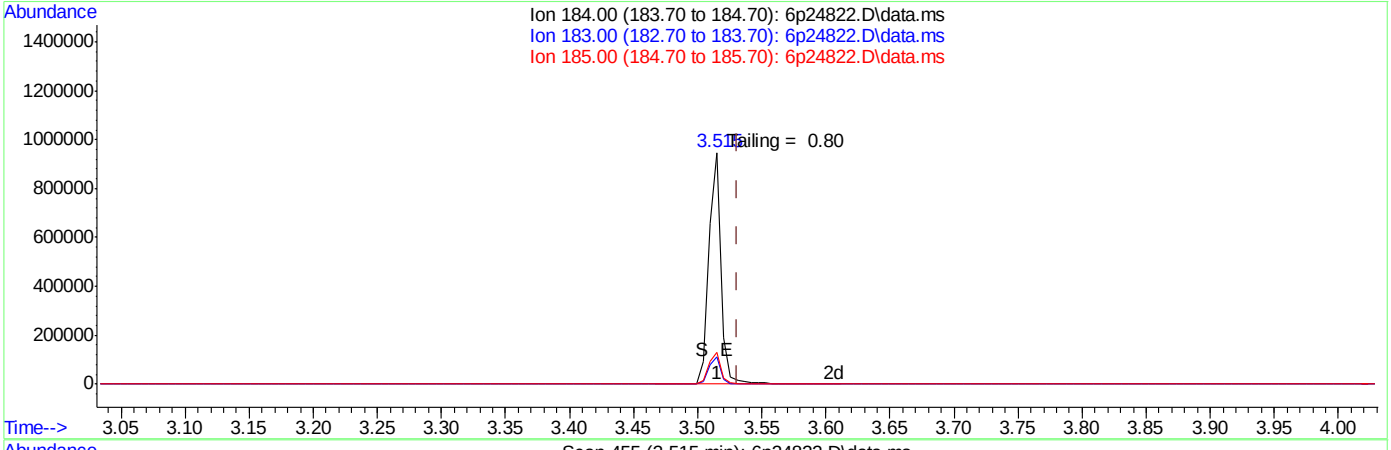
Ion	Exp%	Act%
265.80	100	100
263.80	62.70	65.71
267.80	62.60	60.39
0.00	0.00	0.00

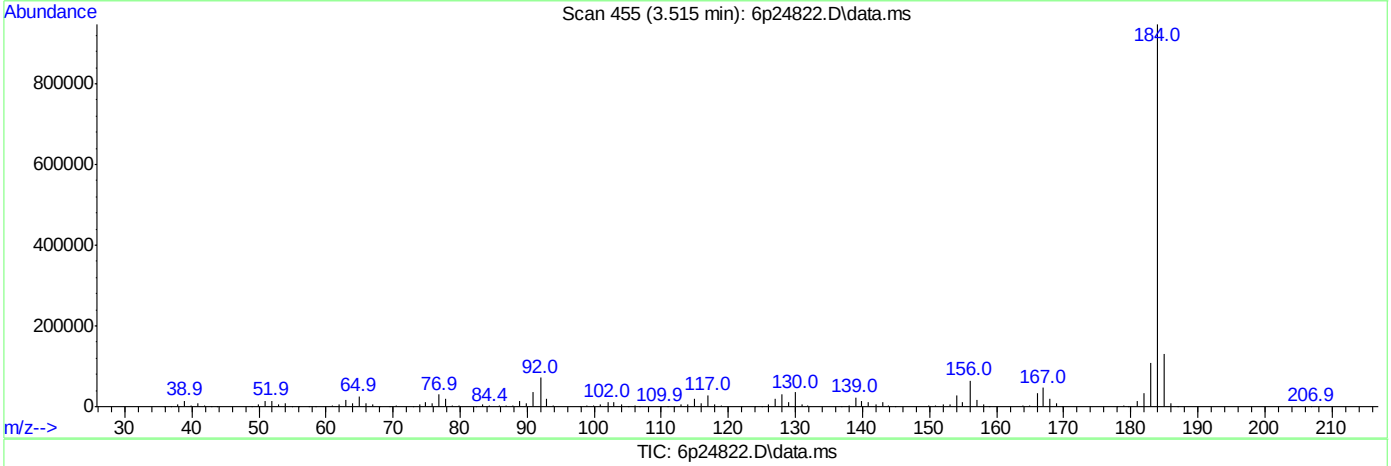
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24822.D
Acq On : 5 Apr 2016 9:19 pm
Operator : sarad
Sample : dftpp
Misc : op92208,e6p1156
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:31:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p24822.D\data.ms

(2) Benzidine (t)

3.515min (-0.016) 0.00ppb

response 635380

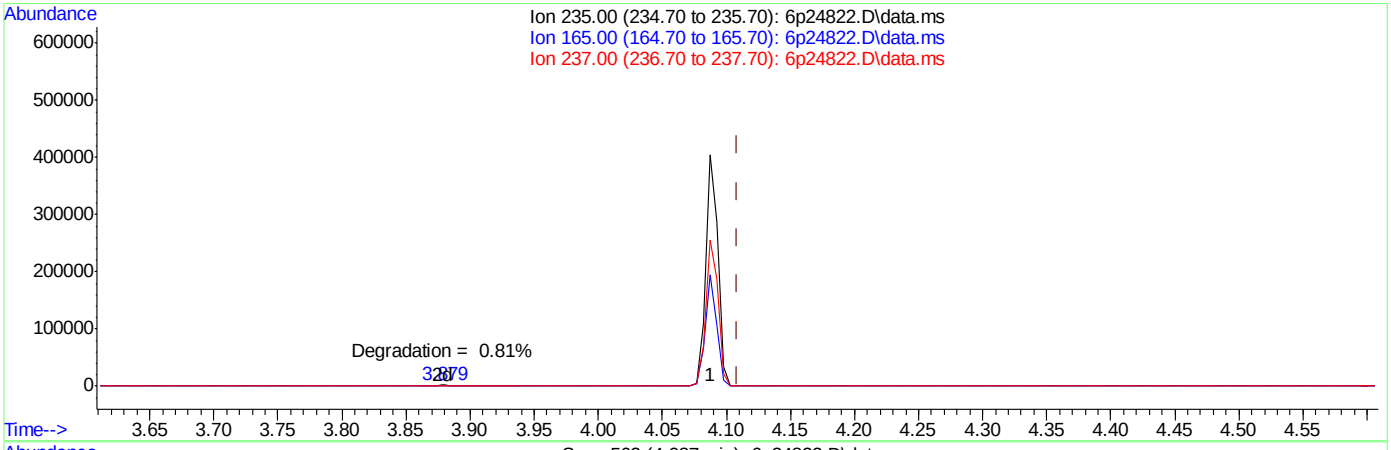
Ion	Exp%	Act%
184.00	100	100
183.00	11.10	11.57
185.00	13.90	13.75
0.00	0.00	0.00

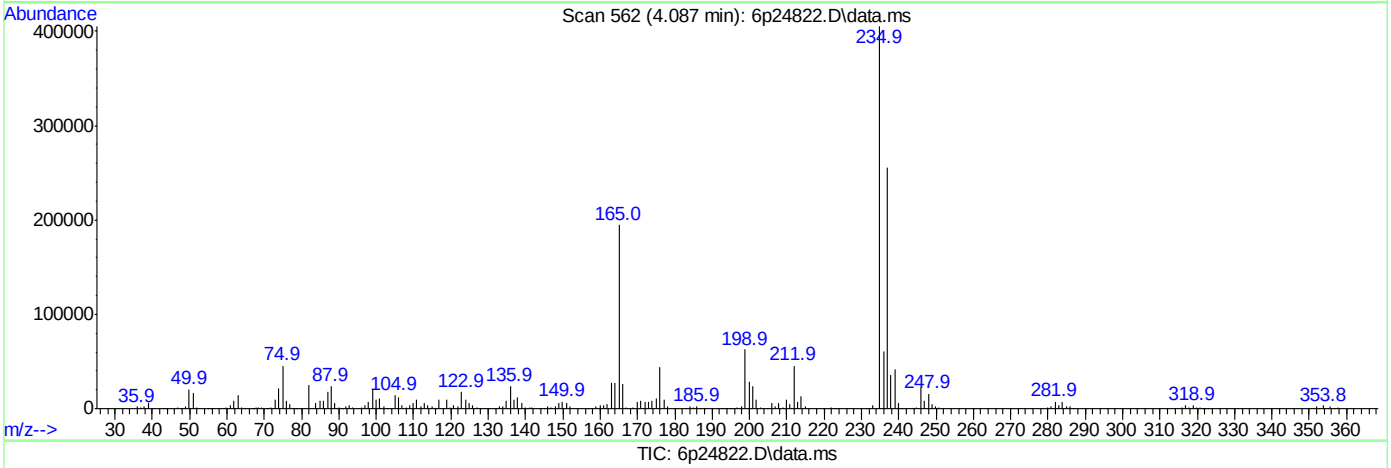
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24822.D
Acq On : 5 Apr 2016 9:19 pm
Operator : sarad
Sample : dftpp
Misc : op92208,e6p1156
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:31:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p24822.D\data.ms

(3) PP-DDT (t)

4.087min (-0.021) 0.00ppb

response 270234

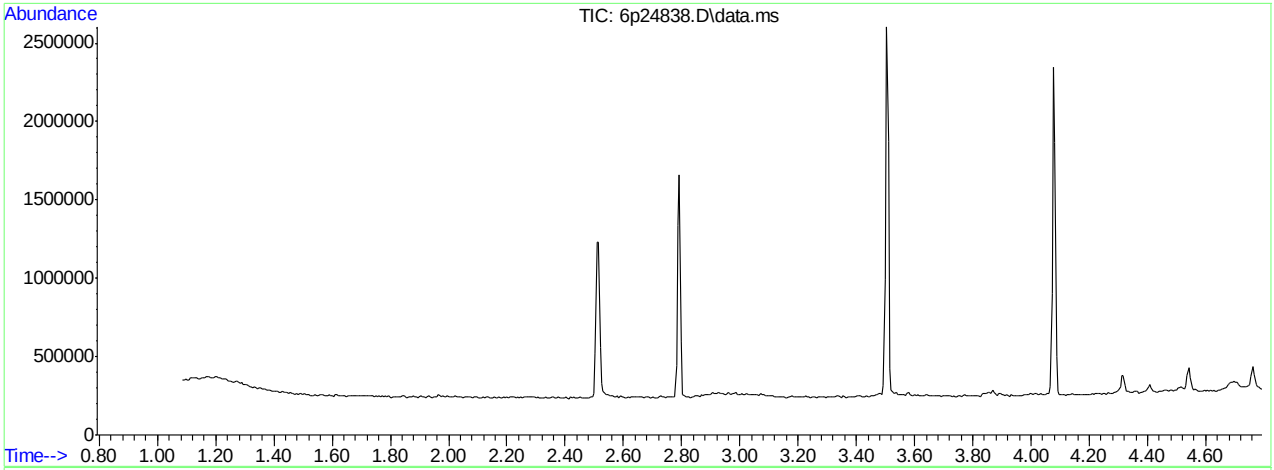
Ion	Exp%	Act%
235.00	100	100
165.00	93.70	45.46#
237.00	85.60	64.01
0.00	0.00	0.00

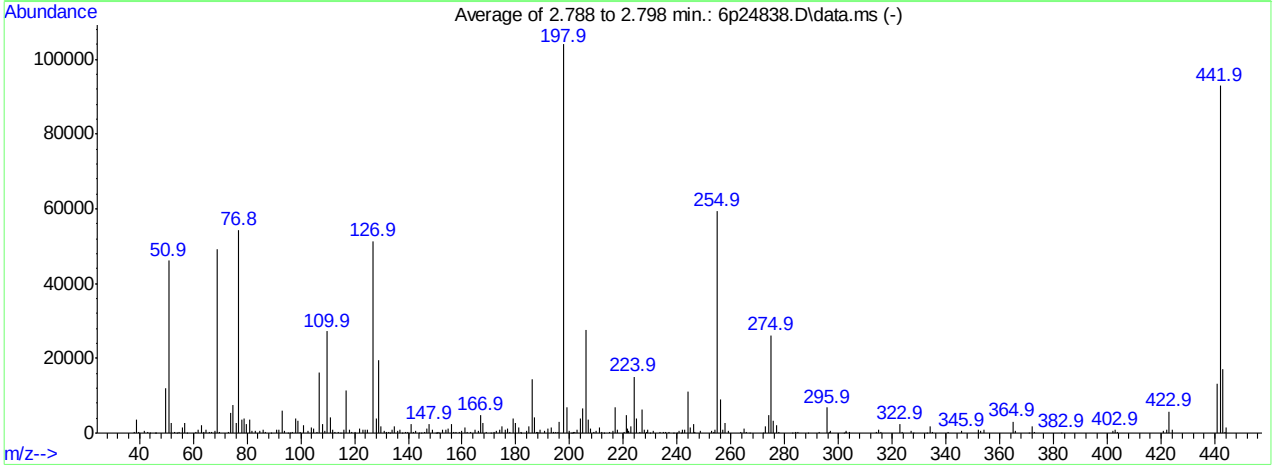
SGS ACCUTEST JC19759

DFTPP

Data File : C:\msdchem\1\DATA\E6P1157\6p24838.D Vial: 1
Acq On : 6 Apr 2016 9:41 am Operator: ashleyd
Sample : dftpp Inst : MS6P
Misc : op92208,e6p1157 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um





AutoFind: Scans 319, 320, 321; Background Corrected with Scan 314

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.3	46104	PASS
68	69	0.00	2	1.0	489	PASS
69	198	0.00	100	47.4	49245	PASS
70	69	0.00	2	0.4	219	PASS
127	198	40	60	49.4	51345	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	103997	PASS
199	198	5	9	6.6	6861	PASS
275	198	10	30	25.2	26220	PASS
365	198	1	100	3.0	3077	PASS
441	443	0.10	100	76.2	13068	PASS
442	198	40	100	89.4	92957	PASS
443	442	17	23	18.5	17154	PASS

6p24838.D DFTPP6P.M Wed Apr 06 10:12:05 2016 ACLIMS

Average of 2.788 to 2.798 min.: 6p24838.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.85	427	52.90	222	65.95	294	78.85	3775
38.90	3532	53.90	65	66.80	329	79.85	2330
39.85	372	54.90	316	67.95	489	80.85	3595
41.80	530	55.90	1473	68.90	49245	81.85	635
42.90	382	56.90	2851	69.90	219	82.90	700
43.90	65	57.85	54	72.90	202	84.90	679
45.90	117	60.85	361	73.85	5293	85.80	1037
46.10	110	61.90	890	74.90	7563	86.80	445
49.90	11958	62.90	2076	75.95	2708	88.80	119
50.90	46104	63.80	279	76.85	54363	90.90	762
51.90	2592	64.85	960	77.90	3733	91.90	1021

Average of 2.788 to 2.798 min.: 6p24838.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.90	6063	104.85	1315	115.90	893	128.90	19641
93.90	498	105.90	342	116.90	11402	129.90	1700
95.00	151	106.90	16104	117.90	851	130.85	467
95.90	135	107.90	2524	118.90	238	131.90	226
96.90	350	108.90	719	120.00	316	132.75	269
97.90	3991	109.90	27212	121.90	1229	133.00	120
98.90	3195	110.90	4254	122.90	916	133.90	886
99.90	376	111.90	935	123.90	953	134.85	1747
100.90	2087	112.75	239	124.90	903	135.90	659
102.85	737	113.85	378	126.90	51345	136.95	965
103.85	1496	114.85	68	127.90	4006	137.90	129

Average of 2.788 to 2.798 min.: 6p24838.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
138.95	270	150.00	111	159.90	748	172.90	543
139.95	277	150.70	144	160.95	1561	173.90	1003
140.90	2304	151.00	200	161.85	337	174.90	1949
141.85	300	151.40	150	163.00	172	175.90	772
142.90	463	152.90	1009	164.85	1047	176.95	1105
144.00	101	153.90	901	165.90	755	177.80	354
144.80	107	154.95	1357	166.95	4853	178.90	4036
145.90	395	155.95	2437	167.90	2757	179.90	2820
146.80	1235	156.90	362	168.90	410	180.85	1502
147.90	2501	157.65	419	170.80	143	181.70	117
148.85	857	158.90	450	171.90	345	181.95	361

Average of 2.788 to 2.798 min.: 6p24838.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.90	513	194.00	320	202.85	912	214.90	352
184.95	1798	194.95	270	203.90	4003	215.90	717
185.90	14286	195.70	336	204.90	6603	216.90	6823
186.90	4157	195.95	2872	205.90	27601	217.90	935
187.80	212	197.90	103997	206.90	3634	220.10	219
188.00	312	198.85	6861	207.90	1068	220.90	4841
188.85	761	199.90	482	208.85	342	221.55	1092
190.75	478	200.70	100	210.00	538	221.90	618
191.90	1243	201.10	131	210.90	1411	222.85	1784
192.95	1365	201.45	374	211.80	163	223.90	15058
193.80	199	201.95	294	212.90	107	224.90	3930

Average of 2.788 to 2.798 min.: 6p24838.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.95	452	238.80	137	252.80	537	267.10	106
226.90	6427	239.80	131	253.60	245	271.90	158
227.85	1026	240.75	573	254.00	788	272.85	1931
228.70	457	241.60	105	254.90	59552	273.90	4875

228.90	918	241.95	770	255.90	8918	274.90	26220
229.80	101	242.95	958	256.85	859	275.90	3215
230.90	589	243.90	11247	257.85	2815	276.90	2115
233.75	283	244.90	1397	258.85	512	277.90	174
234.90	450	245.90	2328	263.75	241	282.80	118
235.85	413	246.70	455	264.90	1330	283.90	161
236.85	444	248.80	504	265.70	187	284.80	382

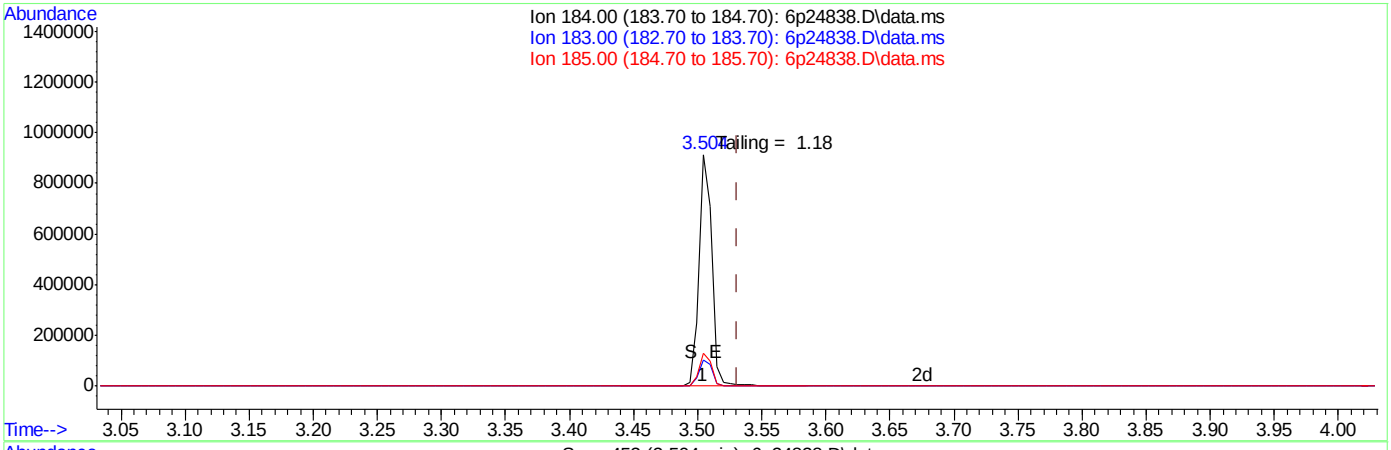
Average of 2.788 to 2.798 min.: 6p24838.D\data.ms
dftpp
Modified:subtracted

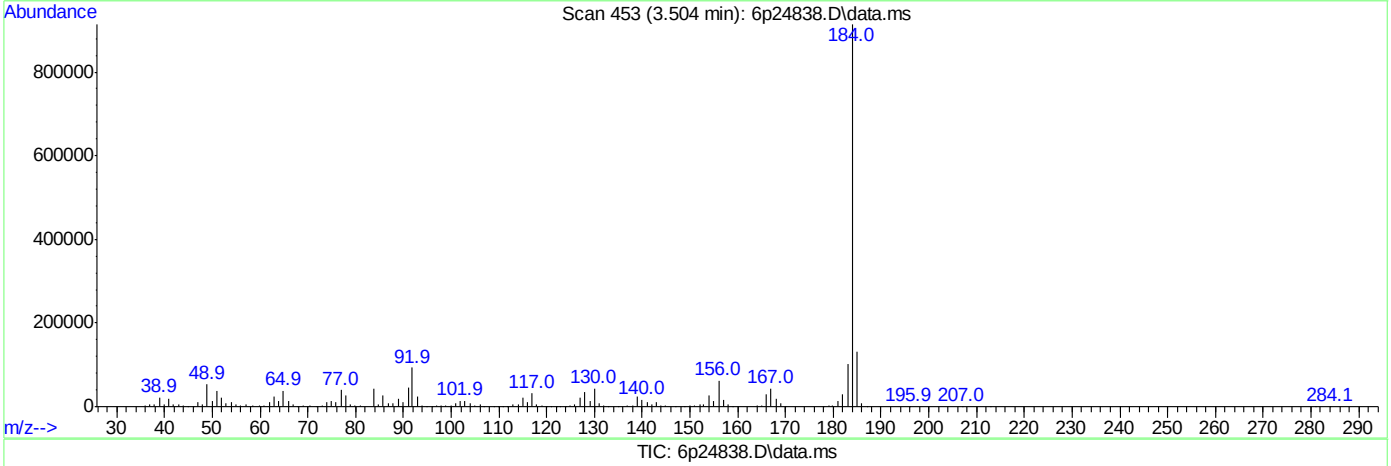
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.80	106	315.85	396	352.85	569	420.95	637
292.75	353	322.90	2402	353.90	945	421.85	903
295.90	6783	323.80	389	364.90	3077	422.90	5734
296.70	252	326.80	566	365.85	469	423.95	1024
296.90	526	327.70	122	370.80	133	440.90	13068
302.10	118	332.90	116	371.95	1663	441.90	92957
302.70	194	333.95	1908	372.90	311	442.90	17154
302.90	731	334.75	392	382.90	155	443.80	240
303.90	194	340.75	287	401.85	600	444.00	1467
313.90	212	345.85	546	402.95	769		
314.85	941	351.90	953	403.85	363		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1157\
Data File : 6p24838.D
Acq On : 6 Apr 2016 9:41 am
Operator : ashleyd
Sample : dftpp
Misc : op92208,e6p1157
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:46:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p24838.D\data.ms

(2) Benzidine (t)

3.504min (-0.027) 0.00ppb

response 649828

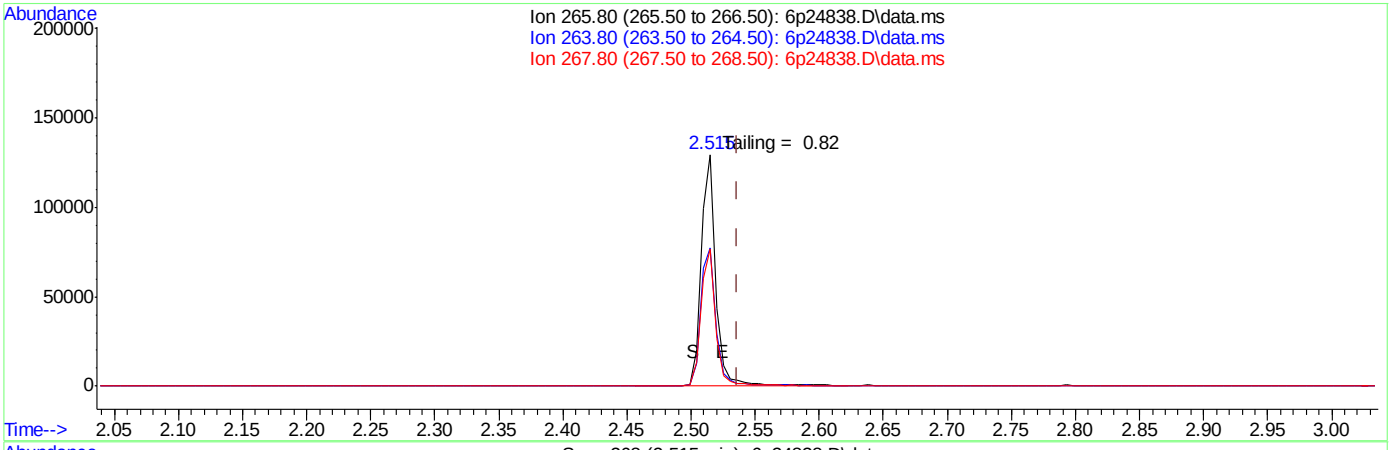
Ion	Exp%	Act%
184.00	100	100
183.00	11.10	11.30
185.00	13.90	14.39
0.00	0.00	0.00

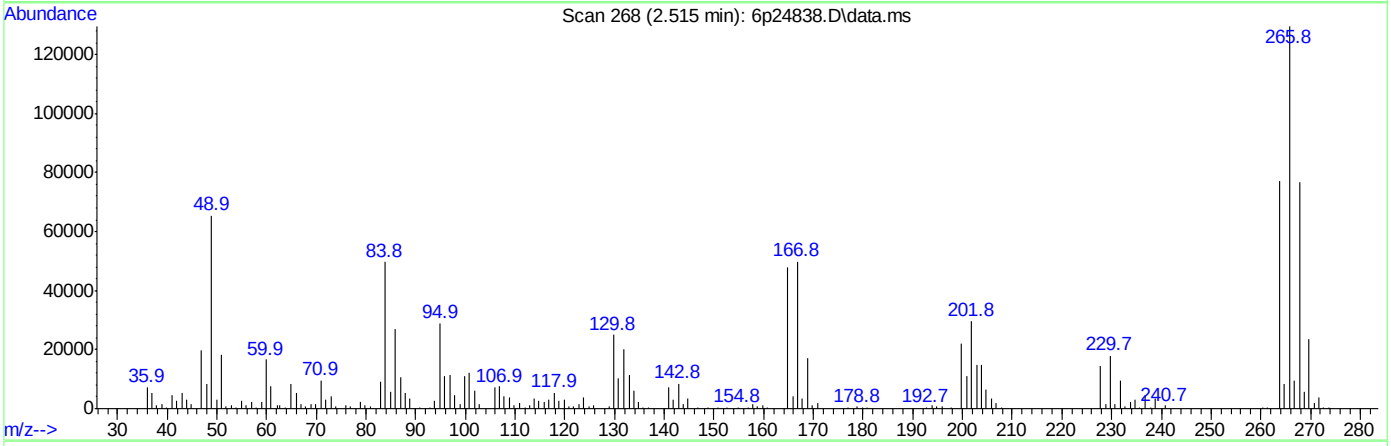
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1157\
Data File : 6p24838.D
Acq On : 6 Apr 2016 9:41 am
Operator : ashleyd
Sample : dftpp
Misc : op92208,e6p1157
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:46:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p24838.D\data.ms

(1) Pentachlorophenol (t)

2.515min (-0.021) 0.00ppb

response 105362

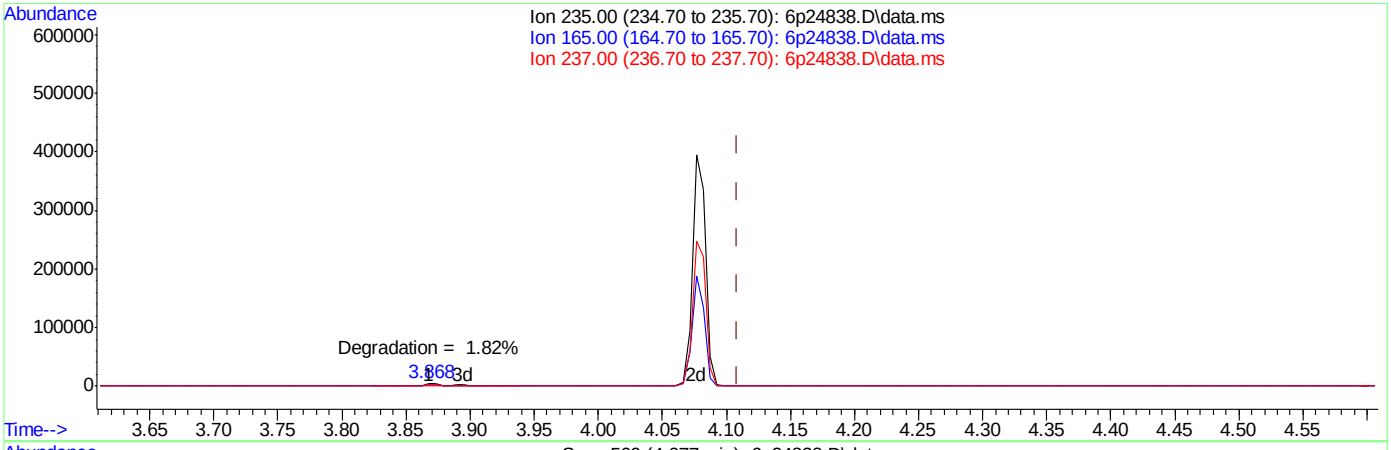
Ion	Exp%	Act%
265.80	100	100
263.80	62.70	59.53
267.80	62.60	59.22
0.00	0.00	0.00

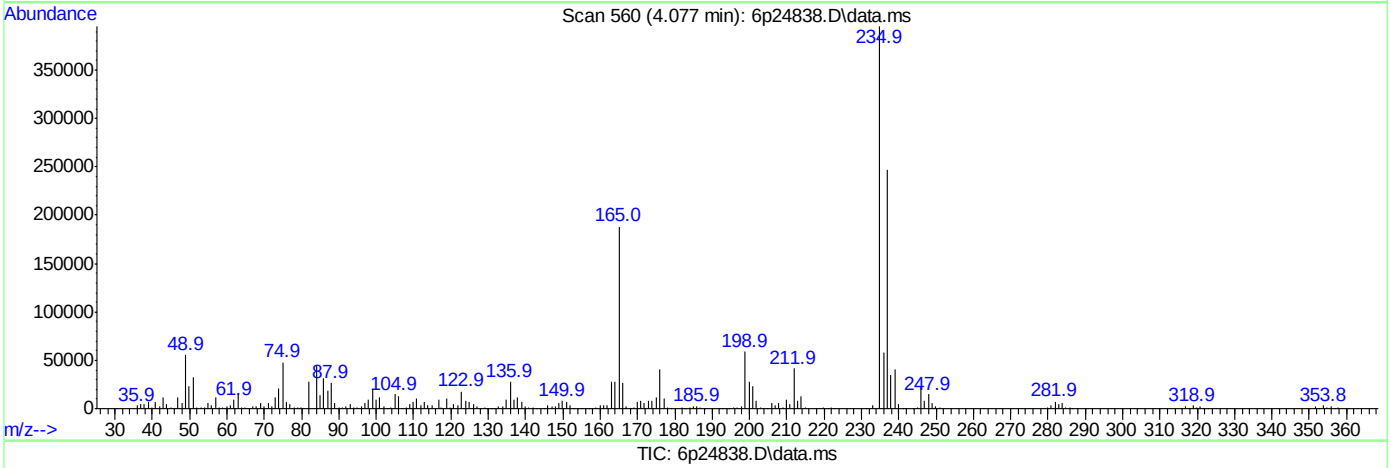
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1157\
Data File : 6p24838.D
Acq On : 6 Apr 2016 9:41 am
Operator : ashleyd
Sample : dftpp
Misc : op92208,e6p1157
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:46:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p24838.D\data.ms

(3) PP-DDT (t)

4.077min (-0.032) 0.00ppb m

response 283457

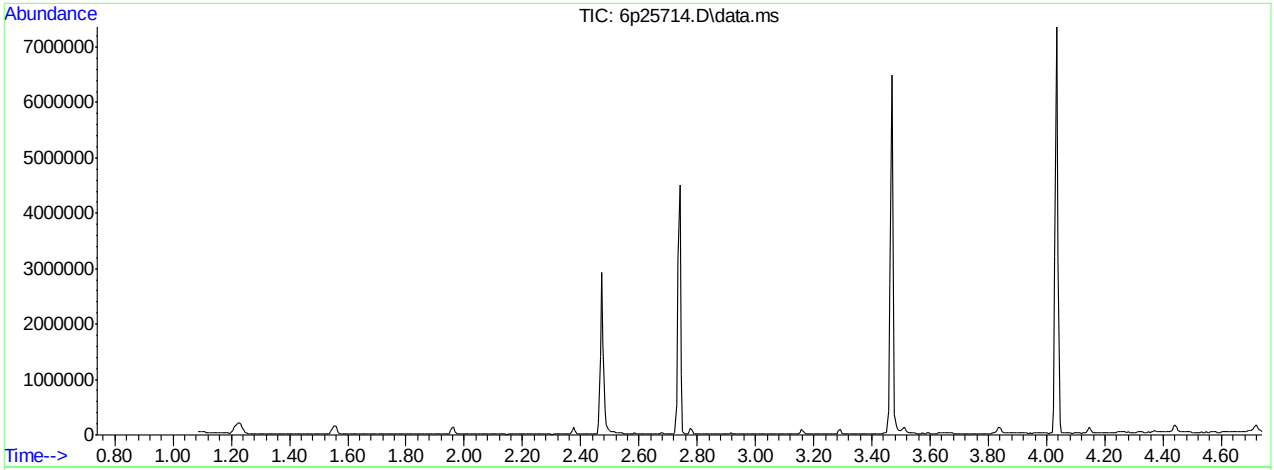
Ion	Exp%	Act%
235.00	100	100
165.00	93.70	0.91#
237.00	85.60	0.81#
0.00	0.00	0.00

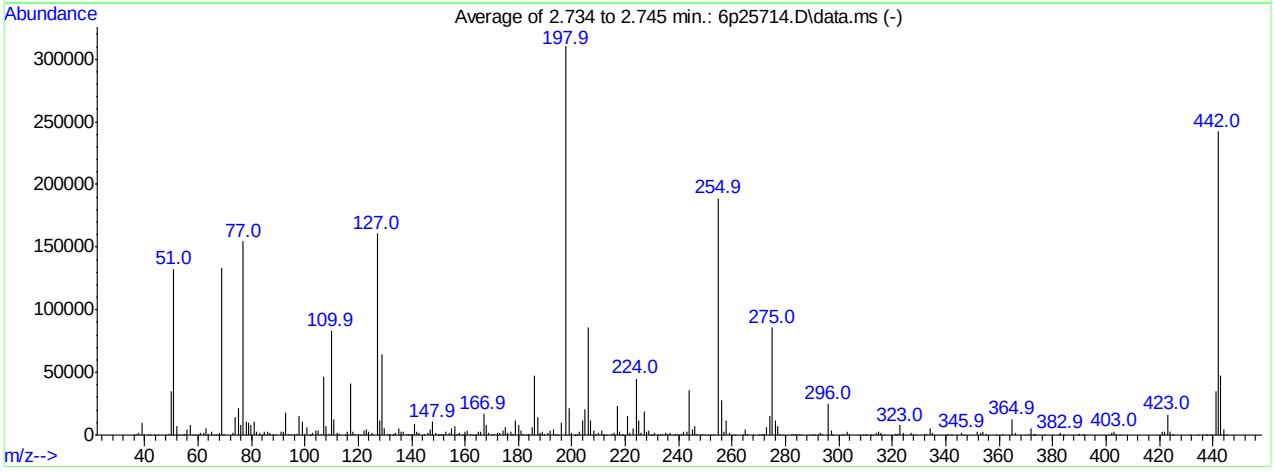
SGS ACCUTEST JC19759

DFTPP

Data File : C:\msdchem\1\DATA\E6P1201\6p25714.D Vial: 1
Acq On : 6 May 2016 9:51 pm Operator: seanb1
Sample : dftpp Inst : MS6P
Misc : op93506,e6p1201 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um





AutoFind: Scans 309, 310, 311; 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	42.8	132802	PASS
68	69	0.00	2	1.3	1679	PASS
69	198	0.00	100	43.1	133710	PASS
70	69	0.00	2	0.5	711	PASS
127	198	40	60	51.9	160864	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	310144	PASS
199	198	5	9	6.8	21121	PASS
275	198	10	30	27.6	85746	PASS
365	198	1	100	4.1	12784	PASS
441	443	0.10	100	74.4	35150	PASS
442	198	40	100	78.2	242424	PASS
443	442	17	23	19.5	47224	PASS

6p25714.D DFTPP6P.M Sat May 07 10:07:52 2016 ACLIMS

Average of 2.734 to 2.745 min.: 6p25714.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	278	50.00	35340	60.95	1834	74.00	14554
36.90	667	50.95	132802	61.95	1976	75.00	21249
37.95	2125	52.00	6757	63.00	5471	76.00	8519
38.95	10262	52.85	273	63.95	817	77.00	154714
39.90	770	54.00	113	64.90	2705	78.00	10370
40.95	301	54.90	601	65.90	126	78.90	10257
41.95	262	55.95	4642	66.90	262	79.90	7970
43.80	140	56.90	8260	68.10	1679	80.90	10965
44.90	254	58.00	385	68.90	133710	81.85	2330
47.90	121	58.80	136	69.85	711	82.95	2231
48.95	1281	60.00	180	72.95	1592	83.85	66

Average of 2.734 to 2.745 min.: 6p25714.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
84.90	2567	96.95	667	106.90	46939	118.85	558
85.85	2915	97.90	14855	107.90	7333	119.85	541
86.95	1451	98.90	11172	109.00	1064	120.80	147
88.00	626	99.90	955	109.90	82898	121.95	3362
88.90	400	100.90	6213	111.00	12652	123.00	4754
90.95	2657	101.80	177	111.95	1711	123.90	2302
92.00	3118	102.00	112	112.90	666	124.95	1928
92.90	17922	102.90	2123	114.85	367	127.00	160864
93.95	1259	103.90	3851	116.00	3085	127.90	11658
94.90	227	105.00	3733	116.95	40937	128.90	64077
96.00	1054	106.00	577	117.90	3090	129.90	5435

Average of 2.734 to 2.745 min.: 6p25714.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
130.95	1306	140.20	428	150.10	227	159.95	2408
131.90	830	140.90	9019	150.90	1139	160.95	3853
132.90	483	141.95	2858	151.10	115	161.85	1027
133.10	143	142.90	2155	151.75	684	162.95	410
133.95	2015	143.85	452	152.90	2892	163.70	145
134.95	5460	145.00	488	153.90	1721	164.05	369
135.95	2444	145.95	1916	154.95	5022	164.95	3075
137.00	2989	147.00	4236	156.00	7095	165.95	2939
137.90	673	147.90	10409	157.05	1349	166.95	16913
138.95	543	149.00	2050	157.90	1537	167.95	7958
139.90	583	149.90	154	158.95	1245	168.90	1409

Average of 2.734 to 2.745 min.: 6p25714.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.85	580	180.95	3559	191.95	3605	202.95	2863
170.95	931	181.90	761	193.00	4663	203.90	11939
171.90	1754	182.95	389	194.05	1100	205.00	20904
172.95	2025	183.95	1139	194.90	321	206.00	86064
174.00	3561	185.00	6398	196.00	10008	207.00	11757
175.00	6362	186.00	47532	197.90	310144	208.00	3184
175.95	1813	187.00	13958	198.90	21121	208.95	983
176.95	3153	187.95	1627	199.90	1894	210.05	1562
177.95	1271	188.90	3038	200.90	210	211.00	3376
178.90	11970	189.90	680	201.35	1133	211.60	321
180.00	8207	190.90	1512	201.70	143	212.00	210

Average of 2.734 to 2.745 min.: 6p25714.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.00	124	225.00	12060	234.90	1486	245.95	7159
214.85	948	225.90	1494	235.95	967	246.90	1322
215.95	2231	227.00	18967	236.90	1577	247.90	203
216.90	23263	227.95	2720	237.90	223	248.85	1096

217.95	3056	228.90	3838	238.90	733	249.90	127
218.70	120	229.80	214	239.85	660	251.20	132
219.00	128	230.00	372	240.90	1203	252.00	425
221.00	15328	230.95	1754	241.95	2508	253.00	514
221.75	1651	232.00	253	243.05	2692	254.95	188813
223.00	5342	232.90	431	244.00	35751	256.00	27837
224.00	44952	234.00	1191	245.00	4626	257.00	2558

Average of 2.734 to 2.745 min.: 6p25714.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
257.90	11590	272.00	194	284.95	1300	301.00	146
258.90	1763	273.00	5976	285.90	123	301.95	304
259.90	262	274.00	15613	288.80	241	303.00	2950
260.95	325	275.00	85746	289.90	256	303.95	836
263.90	437	276.00	11358	290.80	130	307.85	342
264.90	4742	276.90	7151	292.10	143	308.90	131
265.75	620	277.95	1031	292.95	1881	309.70	208
267.70	346	279.00	218	293.85	660	310.10	140
269.85	393	281.95	295	296.00	24961	311.70	121
270.95	410	282.95	979	297.00	3200	312.80	220
271.75	511	283.90	480	297.80	187	313.95	1541

Average of 2.734 to 2.745 min.: 6p25714.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
314.95	2686	328.60	109	354.00	3018	373.80	101
315.60	212	331.85	591	355.00	564	376.80	122
315.85	1711	332.90	769	358.90	132	382.50	139
316.90	178	334.00	4986	360.90	139	382.95	1520
320.95	878	334.95	1443	364.90	12784	383.90	231
321.60	114	340.90	933	365.90	1931	389.70	113
322.05	572	341.90	160	369.90	121	390.00	742
323.00	7981	345.90	2070	370.95	663	391.05	409
324.00	1698	346.80	236	371.95	4966	391.85	319
326.90	1739	351.95	2803	372.70	209	401.00	304
327.90	821	352.90	1894	373.00	786	401.95	1866

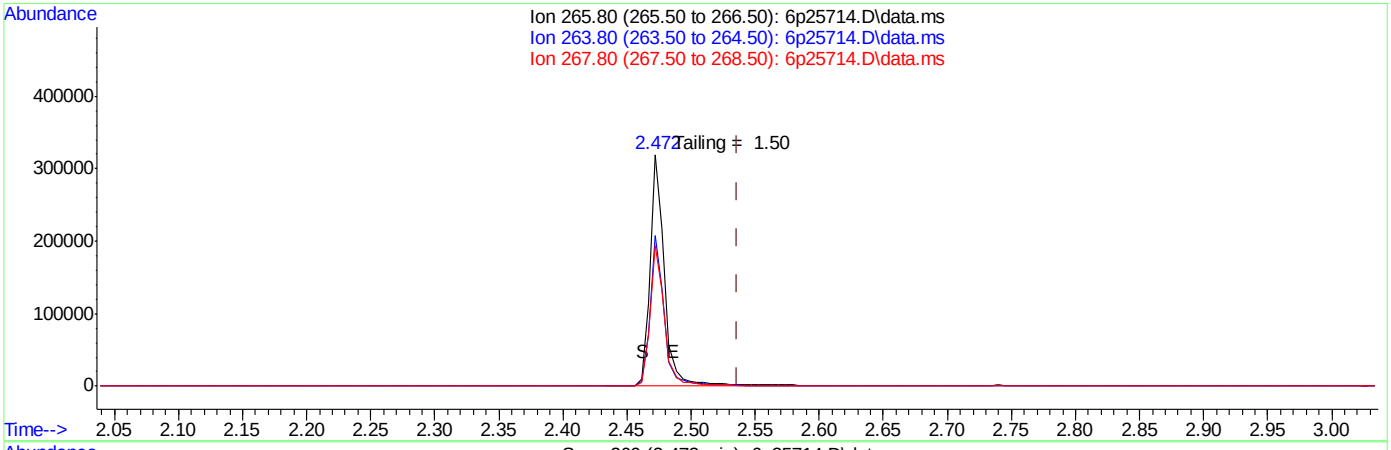
Average of 2.734 to 2.745 min.: 6p25714.D\data.ms
dftpp
Modified:subtracted

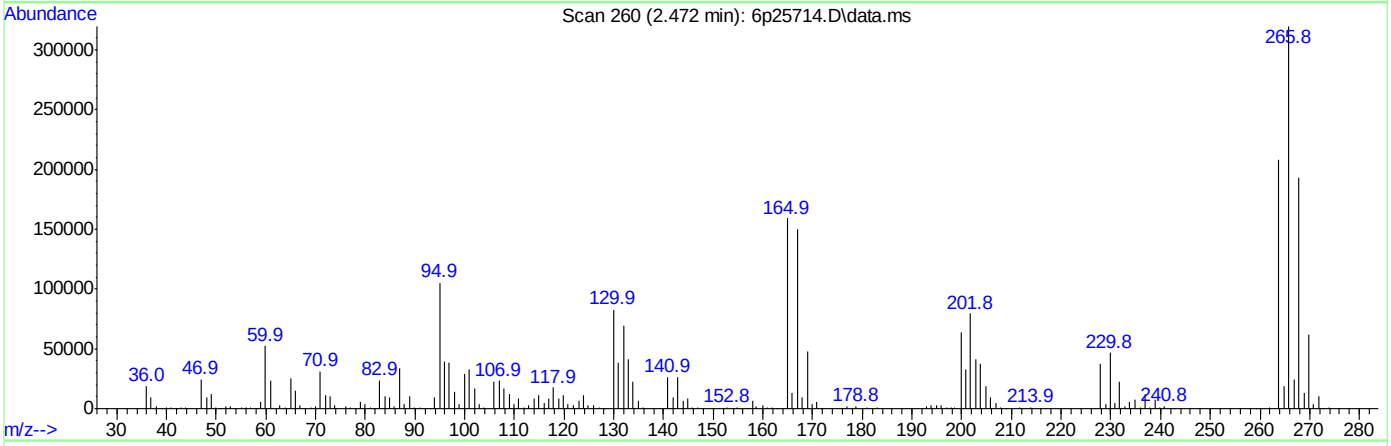
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.00	2811	436.30	211				
403.95	1128	437.20	171				
405.00	123	438.00	116				
420.95	2318	439.10	135				
422.00	2493	439.60	202				
423.00	16396	441.00	35150				
423.95	3107	442.00	242424				
424.80	205	443.00	47224				
425.10	126	444.00	4355				
431.50	107	444.80	156				
434.40	168						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25714.D
Acq On : 6 May 2016 9:51 pm
Operator : seanb1
Sample : dftpp
Misc : op93506,e6p1201
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 21:55:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25714.D\data.ms

(1) Pentachlorophenol (t)

2.472min (-0.064) 0.00ppb

response 257349

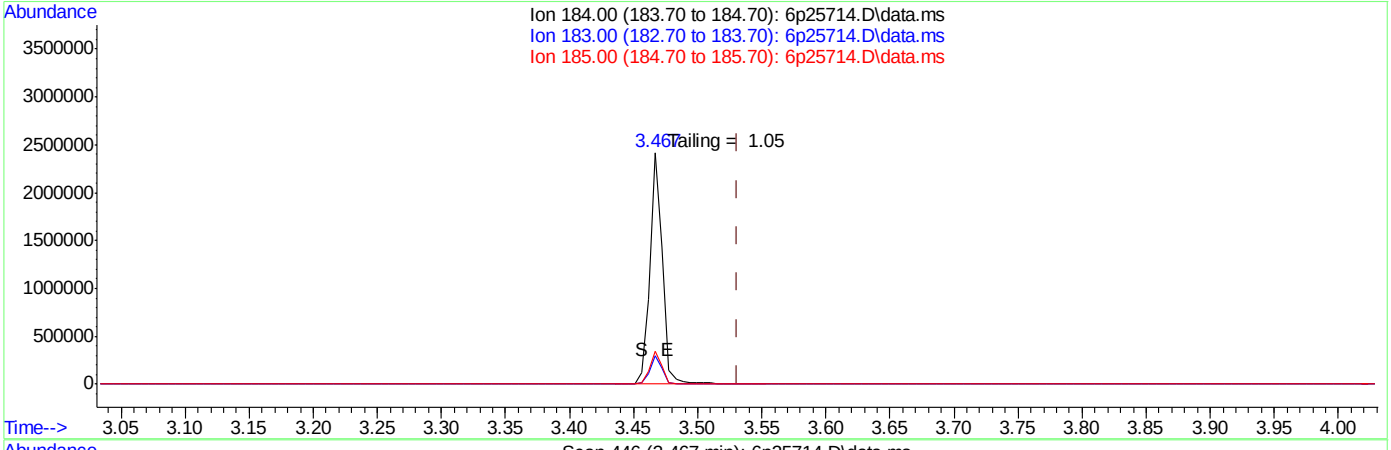
Ion	Exp%	Act%
265.80	100	100
263.80	62.70	65.19
267.80	62.60	60.39
0.00	0.00	0.00

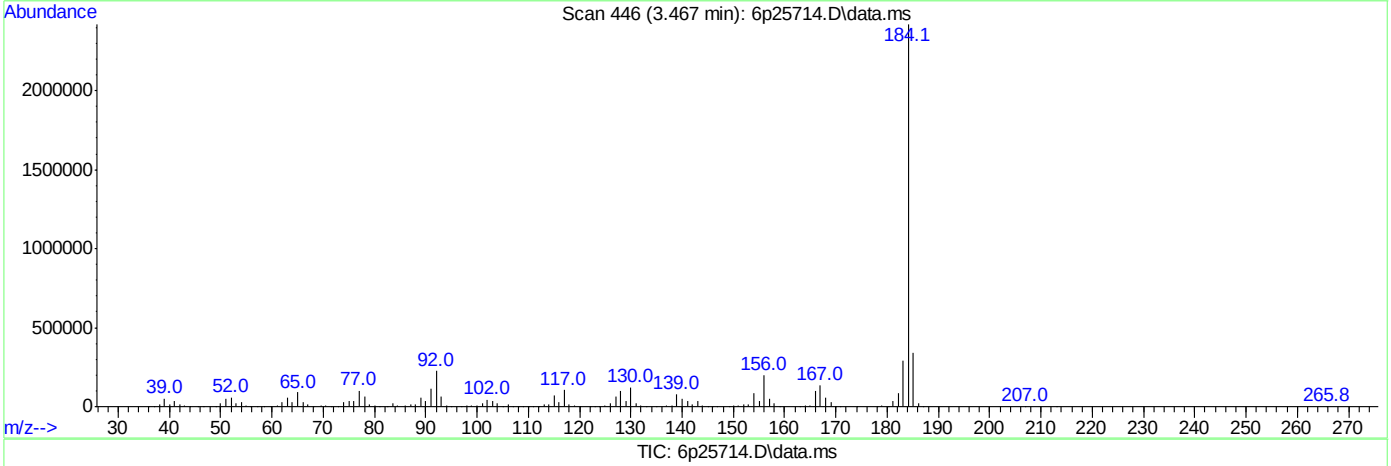
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25714.D
Acq On    :  6 May 2016   9:51 pm
Operator  : seanb1
Sample    : dftpp
Misc      : op93506,e6p1201
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: May 06 21:55:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title  : Semi Volatile  GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration
```





TIC: 6p25714.D\data.ms

(2) Benzidine (t)

3.467min (-0.064) 0.00ppb

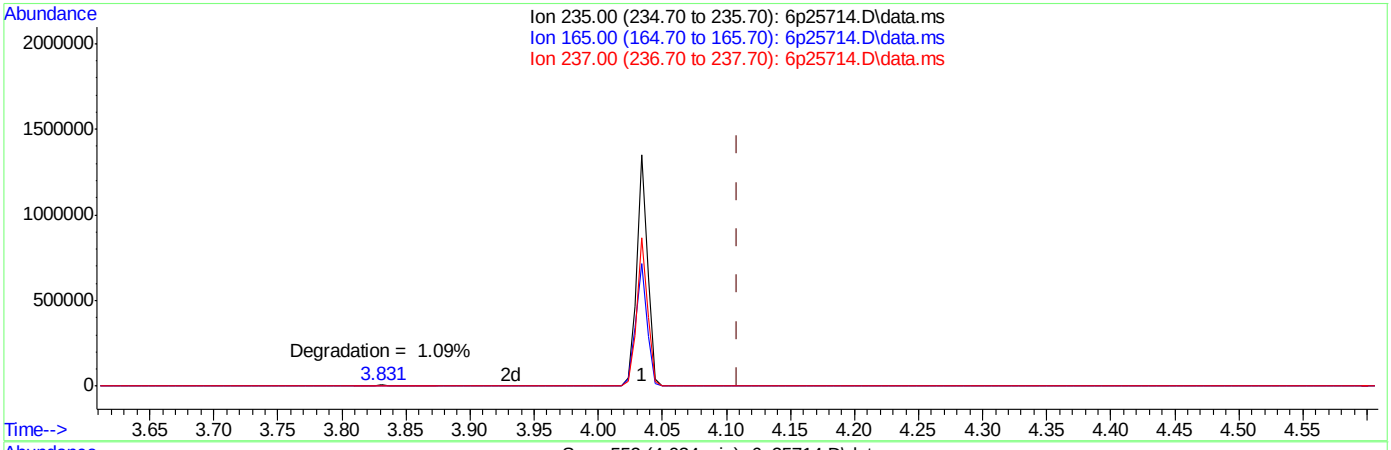
response 1683775

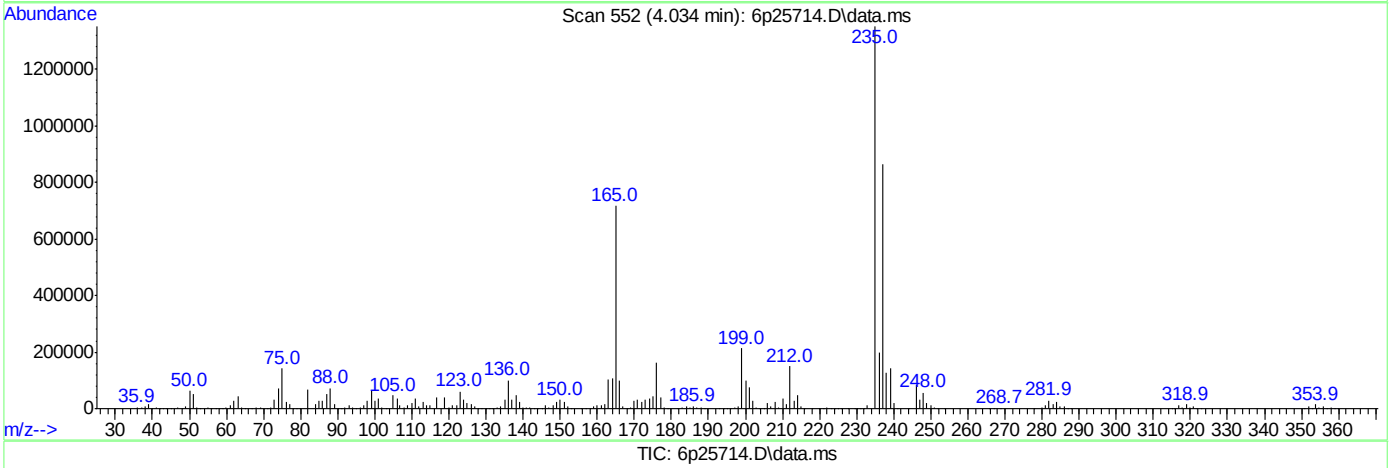
Ion	Exp%	Act%
184.00	100	100
183.00	11.10	12.12
185.00	13.90	14.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25714.D
Acq On : 6 May 2016 9:51 pm
Operator : seanb1
Sample : dftpp
Misc : op93506,e6p1201
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 21:55:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25714.D\data.ms

(3) PP-DDT (t)

4.034min (-0.075) 0.00ppb

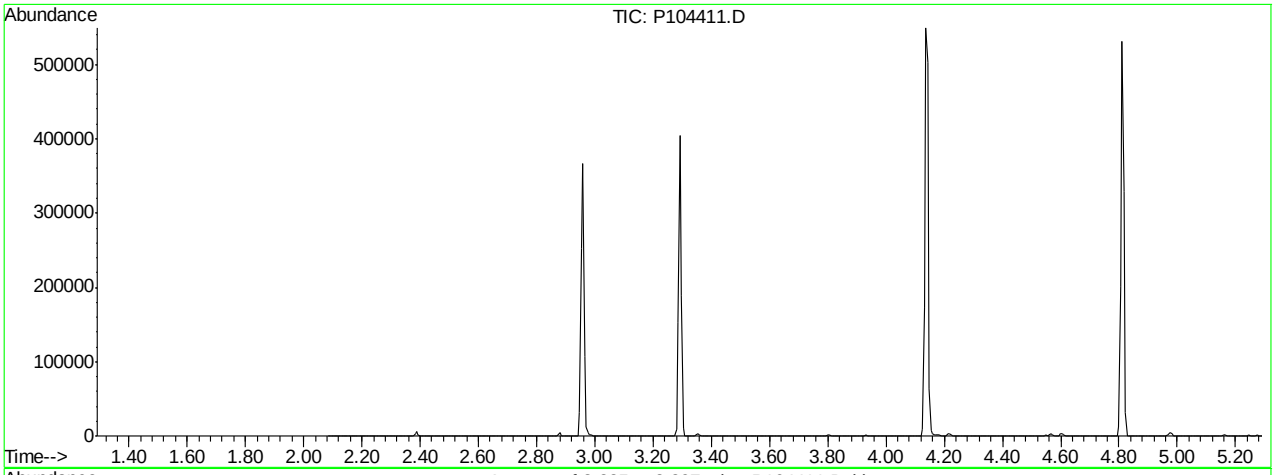
response 819737

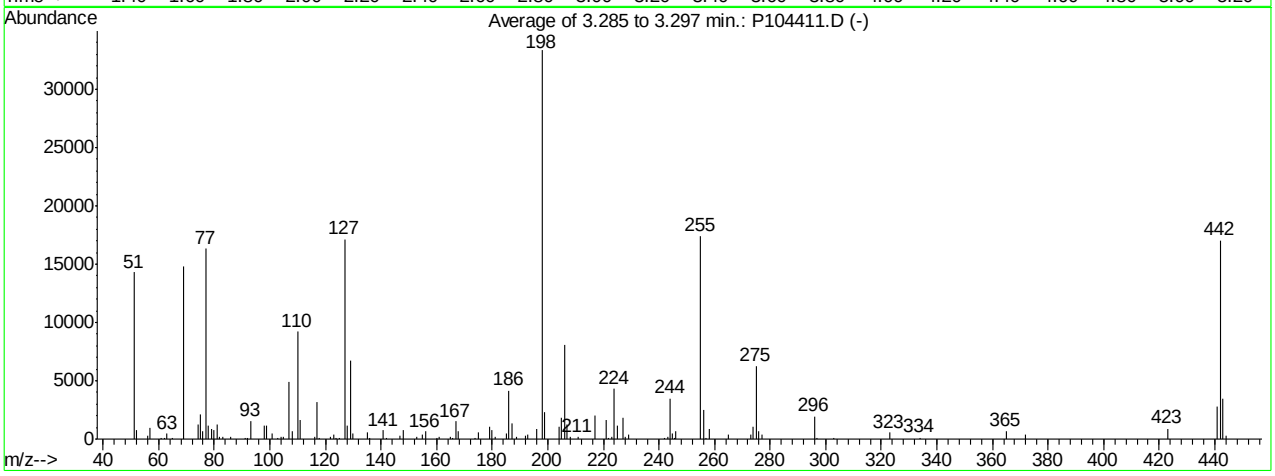
Ion	Exp%	Act%
235.00	100	100
165.00	93.70	55.69#
237.00	85.60	63.58
0.00	0.00	0.00

SGS ACCUTEST JC19759

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4601\P104411.D Vial: 1
Acq On : 27 Apr 2016 3:21 pm Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS





AutoFind: Scans 211, 212, 213; Background Corrected with Scan 207

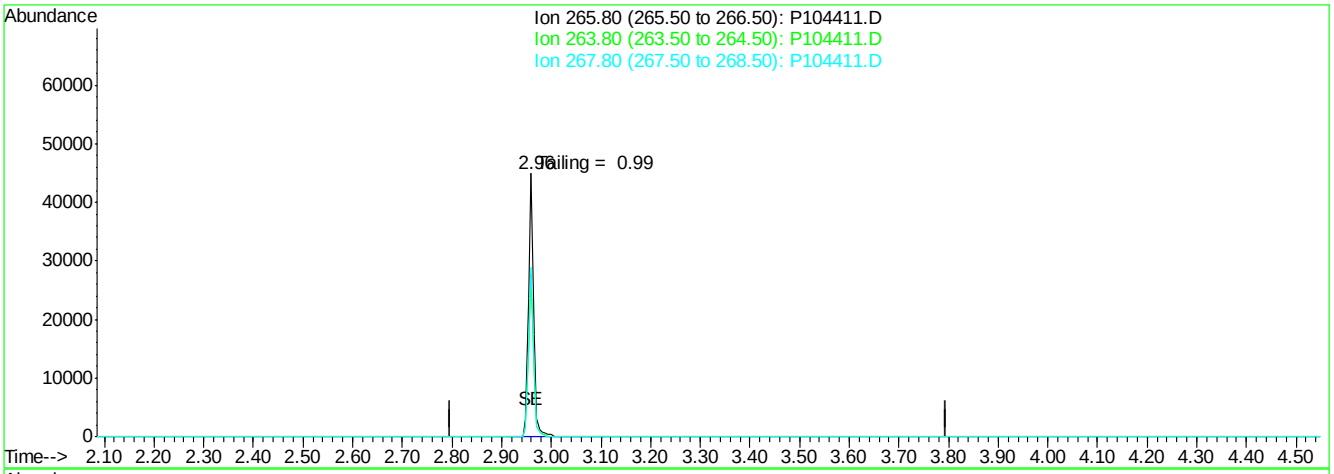
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.0	14321	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	14814	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	51.4	17119	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	33320	PASS
199	198	5	9	6.8	2277	PASS
275	198	10	30	18.9	6287	PASS
365	198	1	100	2.1	692	PASS
441	443	0.10	100	79.1	2752	PASS
442	198	40	100	51.1	17042	PASS
443	442	17	23	20.4	3478	PASS

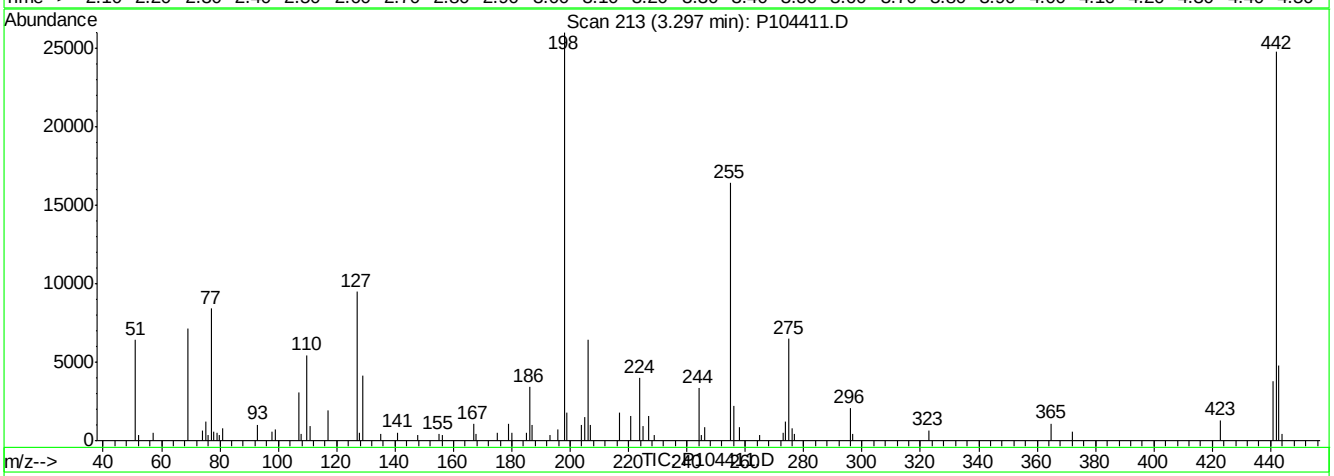
P104411.D MP4600.M Fri Apr 29 13:42:44 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104411.D Vial: 1
Acq On : 27 Apr 2016 3:21 pm Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 27 15:26 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.30min 0.00ppb

response 0

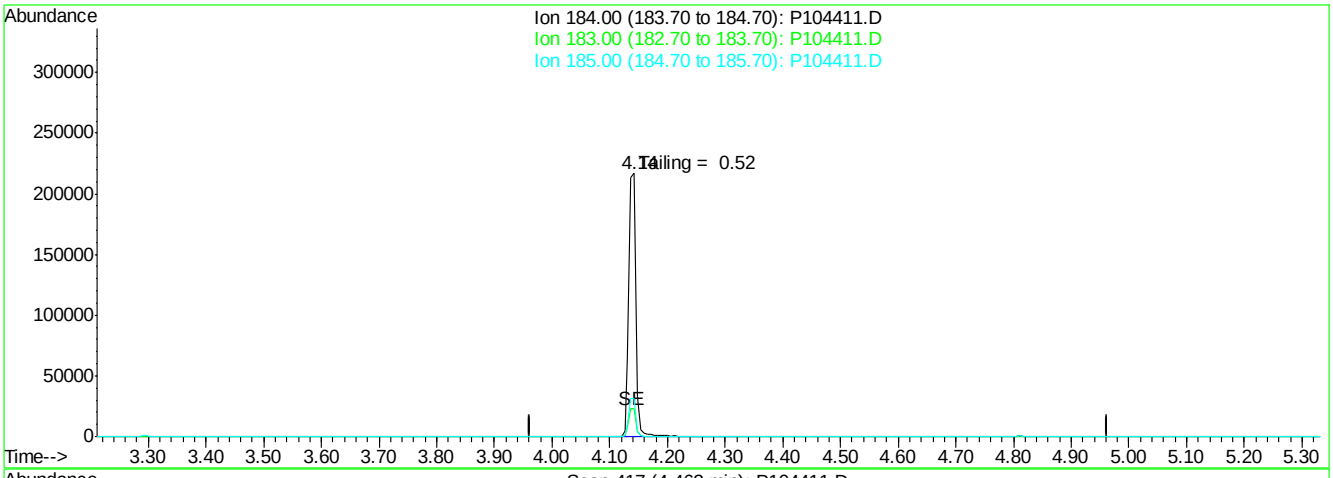
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.10	0.00#
267.80	63.20	0.00#
0.00	0.00	0.00

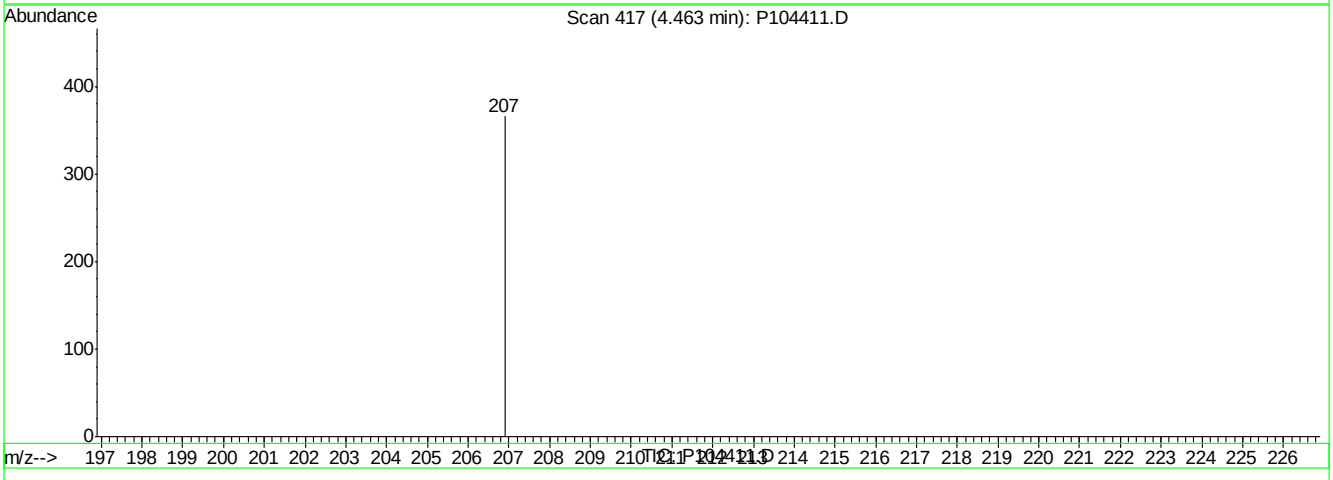
P104411.D DFTPPP.M Thu Apr 28 08:32:22 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104411.D Vial: 1
Acq On : 27 Apr 2016 3:21 pm Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 27 15:26 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.46min 0.00ppb

response 0

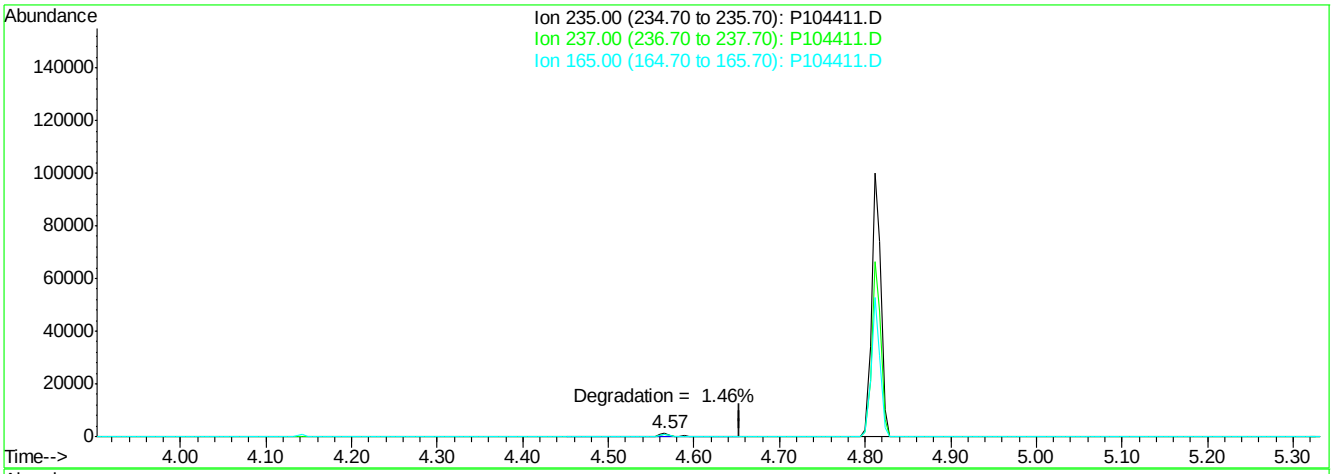
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

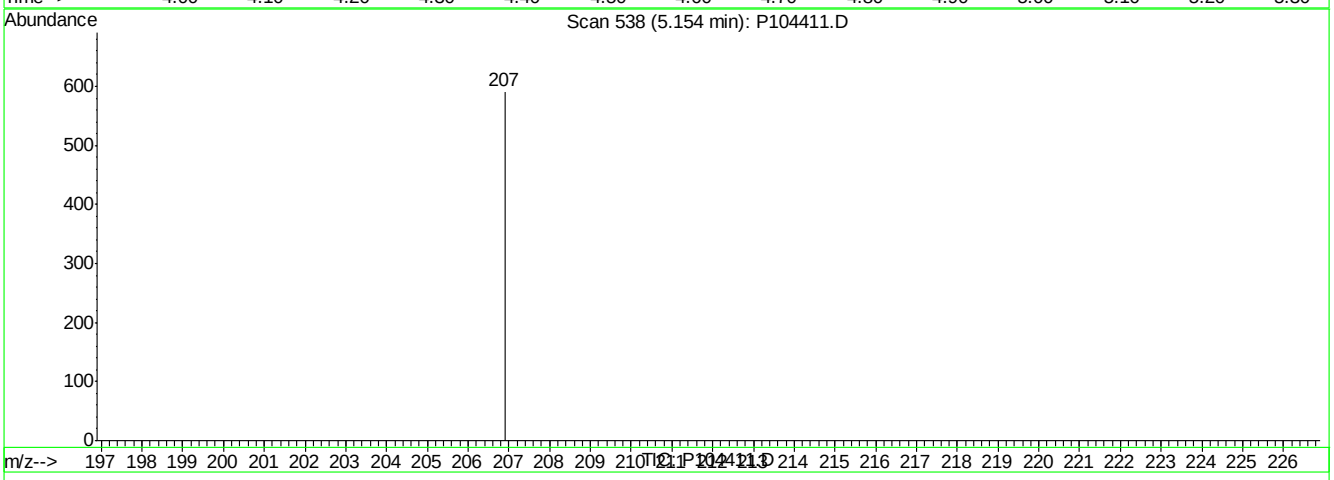
P104411.D DFTPPP.M Thu Apr 28 08:32:26 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104411.D Vial: 1
Acq On : 27 Apr 2016 3:21 pm Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 27 15:26 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(3) ddt

5.15min 0.00ppb

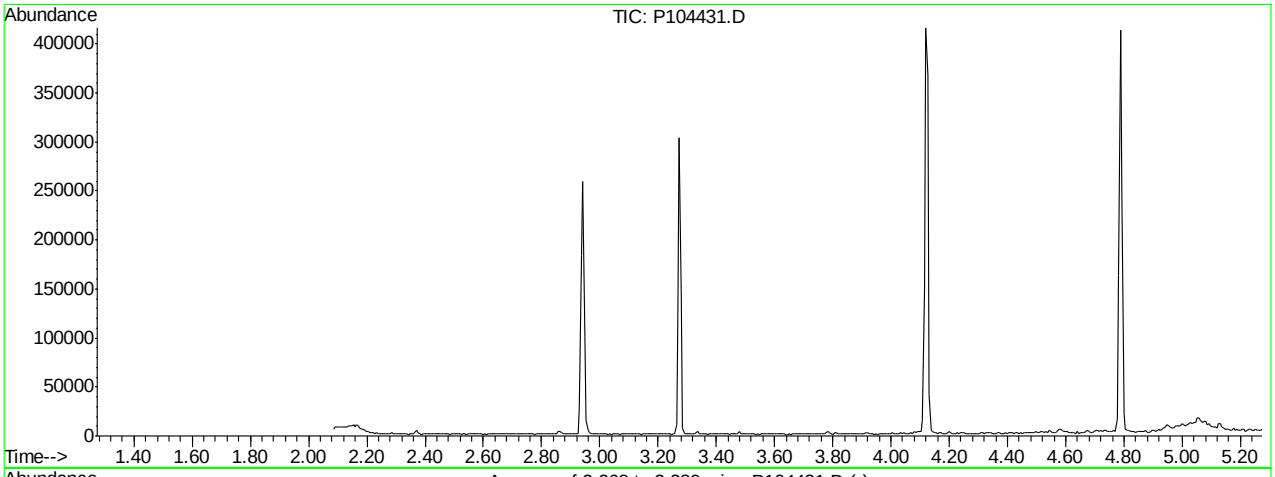
response 0

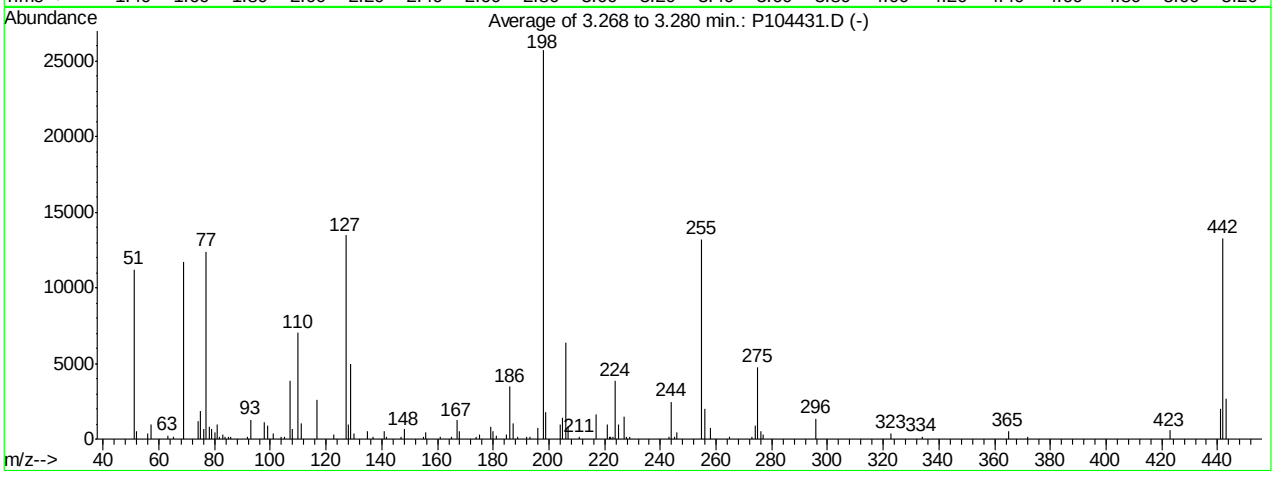
Ion	Exp%	Act%
235.00	100	0.00
237.00	65.40	0.00#
165.00	55.50	0.00#
0.00	0.00	0.00

P104411.D DFTPPP.M Thu Apr 28 08:32:32 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4602\P104431.D Vial: 1
Acq On : 28 Apr 2016 11:51 am Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93197,ep4602 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 208, 209, 210; Background Corrected with Scan 204

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.6	11208	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.7	11743	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	13488	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	25706	PASS
199	198	5	9	7.0	1805	PASS
275	198	10	30	18.6	4785	PASS
365	198	1	100	2.1	545	PASS
441	443	0.10	100	76.4	2021	PASS
442	198	40	100	51.8	13303	PASS
443	442	17	23	19.9	2645	PASS

P104431.D DFTPPP.M Fri Apr 29 13:50:27 2016

Average of 3.268 to 3.280 min.: P104431.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.95	11208	78.05	826	97.95	1093	127.00	13488
52.00	546	79.00	706	98.90	898	128.00	978
55.90	392	79.95	449	100.95	381	128.90	4934
57.00	944	81.00	972	103.90	168	129.90	361
63.00	231	81.90	161	105.00	132	134.90	501
65.00	152	83.00	323	106.95	3830	136.90	119
69.00	11743	83.90	120	107.90	634	140.90	536
73.95	1178	85.00	146	109.95	7036	141.80	121
75.00	1858	85.85	186	110.90	1072	146.90	186
76.00	693	91.90	152	116.90	2563	147.90	647
77.00	12389	92.95	1287	122.90	265	155.00	152

Average of 3.268 to 3.280 min.: P104431.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.90	430	185.95	3459	206.95	797	228.90	130
160.90	125	186.95	1024	210.90	139	242.90	119
164.80	122	188.90	117	216.90	1658	243.95	2447
166.90	1242	191.90	132	220.90	999	244.90	171
167.85	527	193.00	178	221.60	147	245.90	458
174.00	168	195.90	752	222.00	133	254.90	13222
175.00	282	197.90	25706	222.90	175	255.90	2014
178.90	855	198.90	1805	223.95	3835	257.90	762
179.90	514	203.90	1001	224.95	963	264.90	146
181.00	214	205.00	1407	226.85	1461	272.80	181
184.90	300	205.95	6390	227.90	151	273.95	887

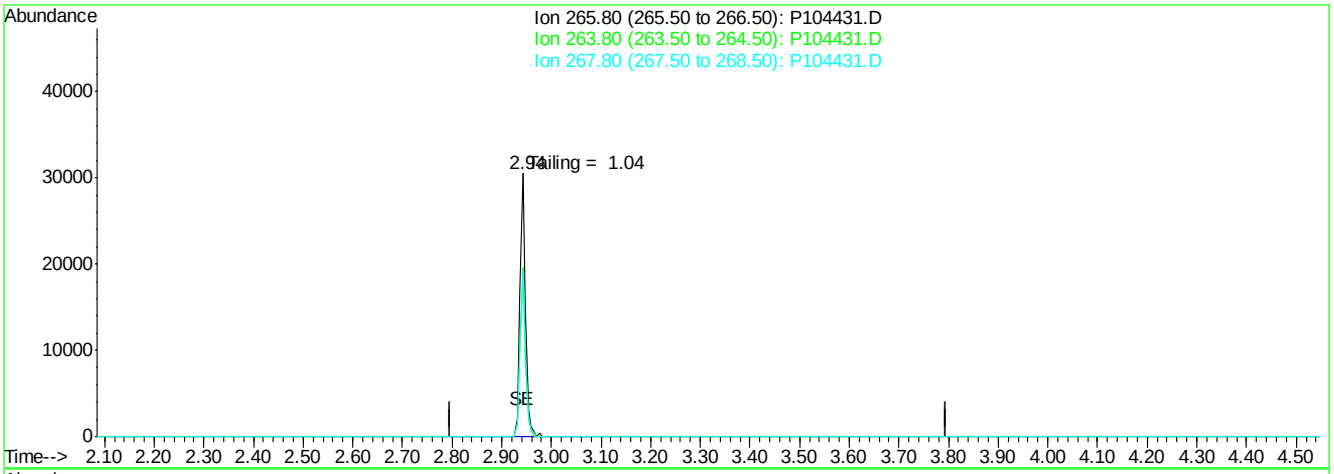
Average of 3.268 to 3.280 min.: P104431.D
dftpp
Modified:subtracted

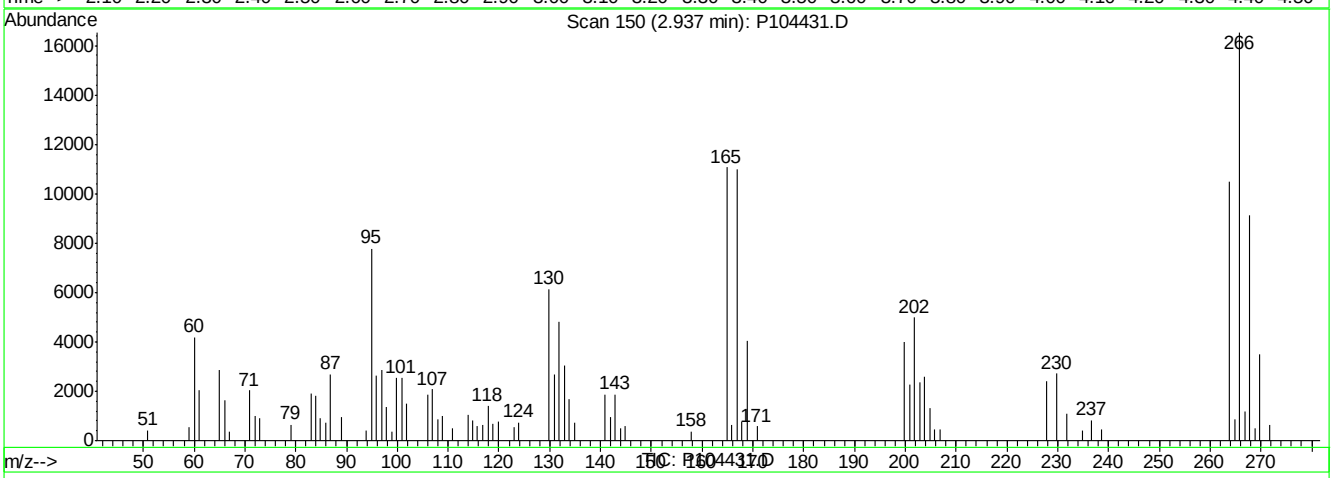
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
274.90	4785	442.90	2645				
275.90	514						
276.90	311						
295.90	1369						
322.90	407						
333.90	177						
364.90	545						
371.90	138						
422.90	588						
440.90	2021						
441.90	13303						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4602\P104431.D Vial: 1
Acq On : 28 Apr 2016 11:51 am Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93197,ep4602 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 28 11:57 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.30min 0.00ppb

response 0

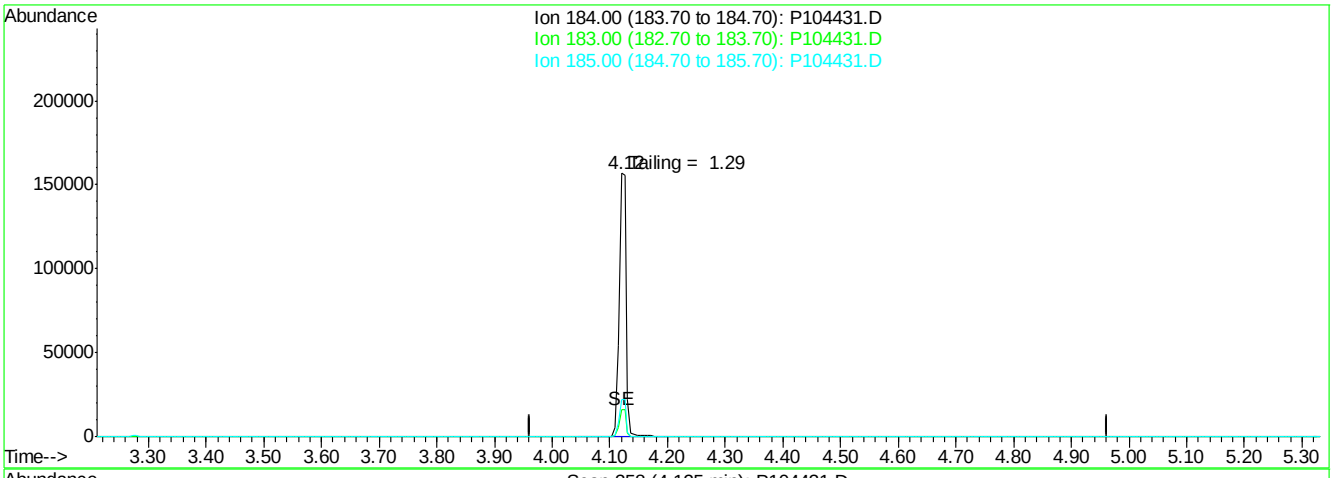
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.10	0.00#
267.80	63.20	0.00#
0.00	0.00	0.00

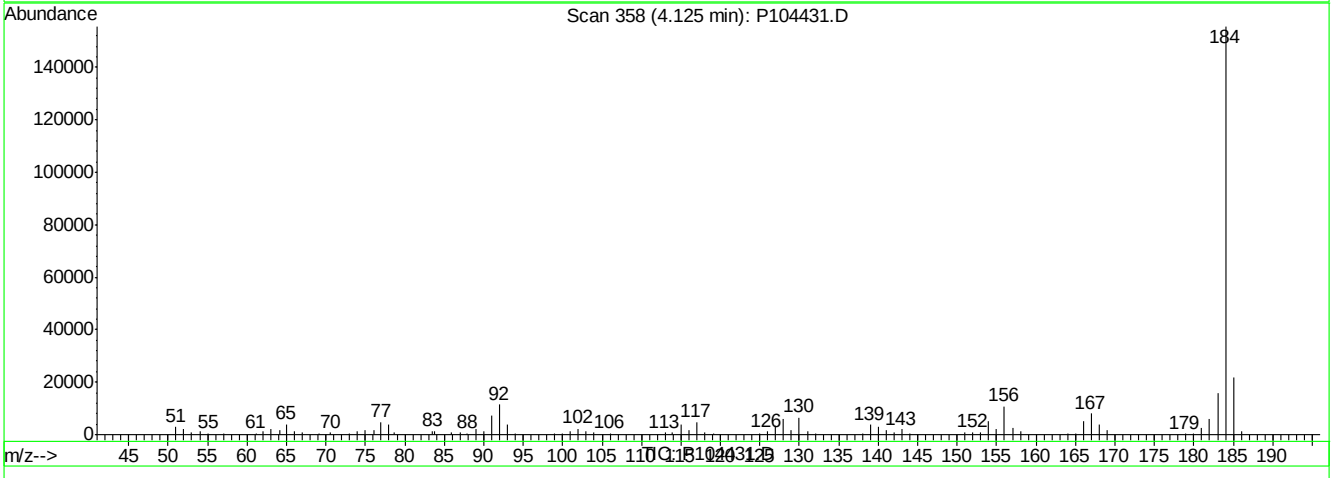
P104431.D DFTPPP.M Fri Apr 29 13:49:51 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4602\P104431.D Vial: 1
Acq On : 28 Apr 2016 11:51 am Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93197,ep4602 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 28 11:57 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.46min 0.00ppb

response 0

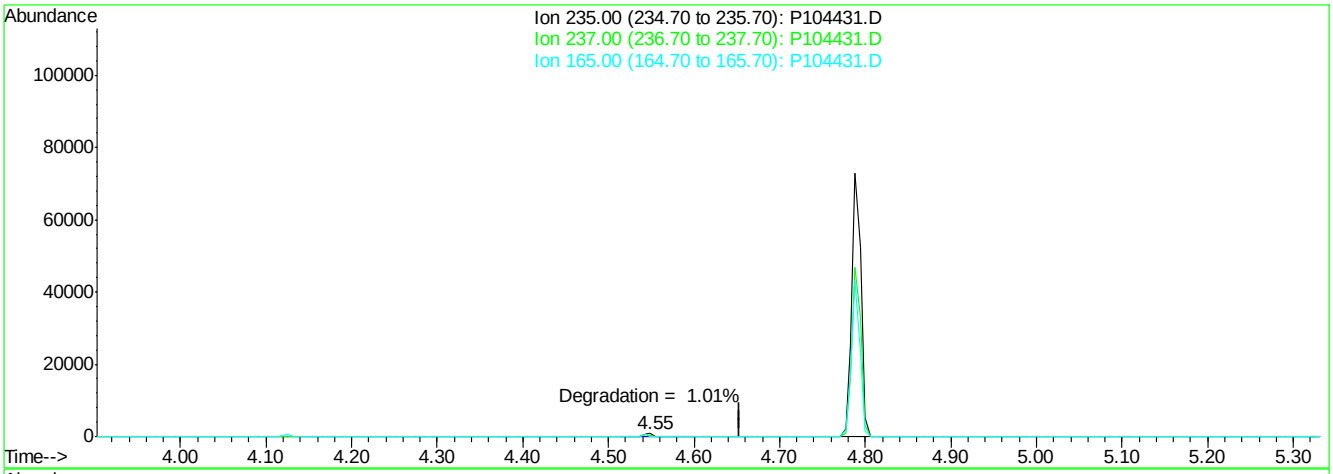
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

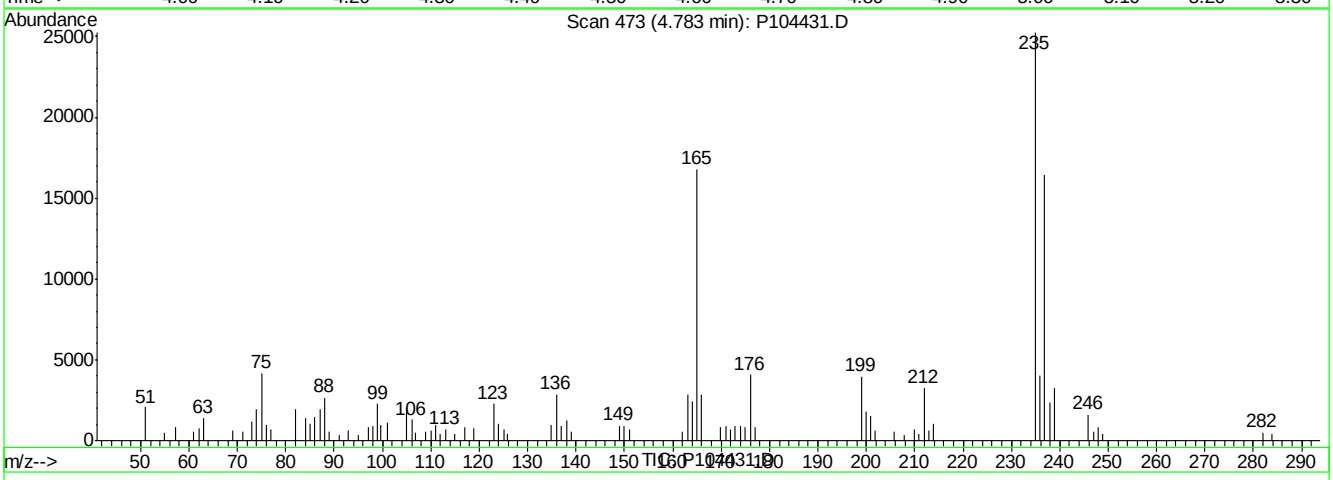
P104431.D DFTPPP.M Fri Apr 29 13:49:57 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4602\P104431.D Vial: 1
Acq On : 28 Apr 2016 11:51 am Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93197,ep4602 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 28 11:57 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(3) ddt

5.15min 0.00ppb

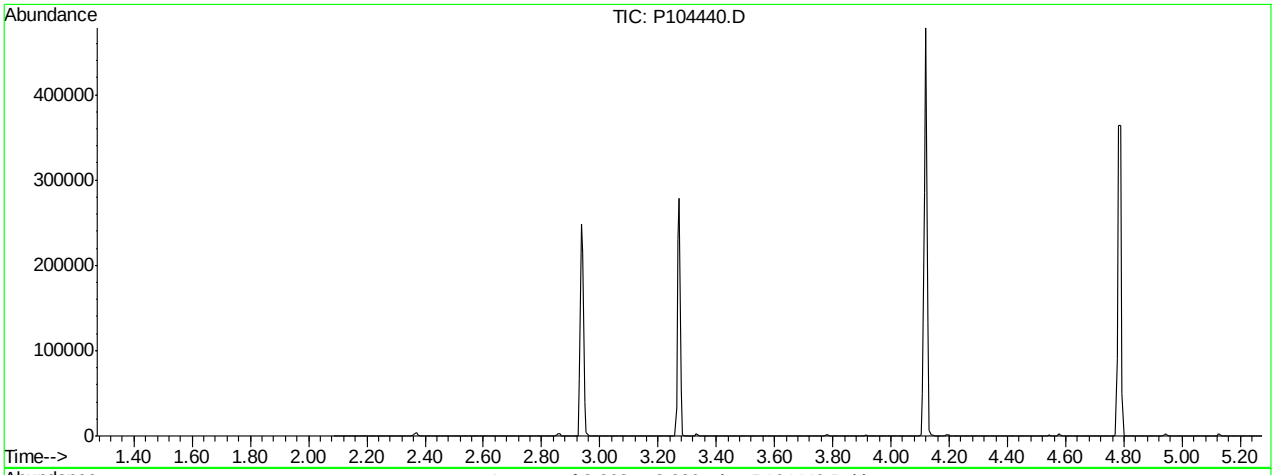
response 0

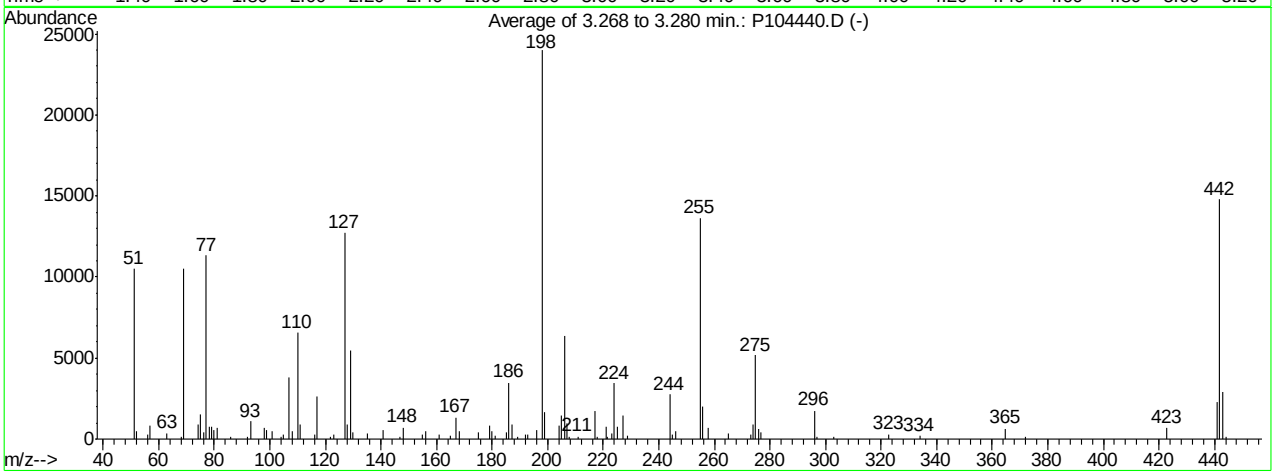
Ion	Exp%	Act%
235.00	100	0.00
237.00	65.40	0.00#
165.00	55.50	0.00#
0.00	0.00	0.00

P104431.D DFTPPP.M Fri Apr 29 13:50:03 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4604\P104440.D Vial: 1
Acq On : 28 Apr 2016 5:07 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 208, 209, 210; Background Corrected with Scan 204

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.8	10495	PASS
68	69	0.00	2	1.2	125	PASS
69	198	0.00	100	43.8	10499	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.0	12710	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	23974	PASS
199	198	5	9	7.0	1674	PASS
275	198	10	30	21.5	5160	PASS
365	198	1	100	2.7	653	PASS
441	443	0.10	100	78.6	2294	PASS
442	198	40	100	61.6	14770	PASS
443	442	17	23	19.8	2918	PASS

P104440.D DFTPPP.M Fri Apr 29 08:51:50 2016

Average of 3.268 to 3.280 min.: P104440.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	10495	78.00	769	104.95	268	129.00	5483
52.00	472	79.00	733	107.00	3800	129.95	416
55.95	307	80.00	536	107.95	516	134.95	381
57.00	834	81.00	728	110.00	6544	140.90	589
63.00	375	85.90	138	110.90	896	146.90	136
68.00	125	92.00	122	115.95	294	147.95	699
69.00	10499	93.00	1087	116.95	2627	154.95	300
74.00	876	98.00	722	121.90	133	156.00	494
75.00	1530	98.95	556	122.90	306	161.00	266
76.00	435	100.95	495	127.00	12710	165.00	205
77.00	11341	103.90	139	128.00	924	166.90	1339

Average of 3.268 to 3.280 min.: P104440.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.00	460	195.95	568	220.95	762	255.90	1993
174.95	434	197.90	23974	221.60	121	257.90	667
178.95	805	198.90	1674	222.85	327	264.95	328
180.00	517	203.95	819	224.00	3446	272.90	307
180.90	233	204.90	1487	224.95	779	273.90	932
185.00	450	206.00	6340	226.95	1483	274.90	5160
186.00	3474	207.00	970	228.80	189	275.95	650
187.00	917	207.80	135	244.00	2751	276.85	403
189.00	119	210.90	142	244.95	306	295.90	1763
191.95	305	216.90	1762	245.90	462	296.90	131
192.95	299	217.90	131	254.90	13624	302.80	128

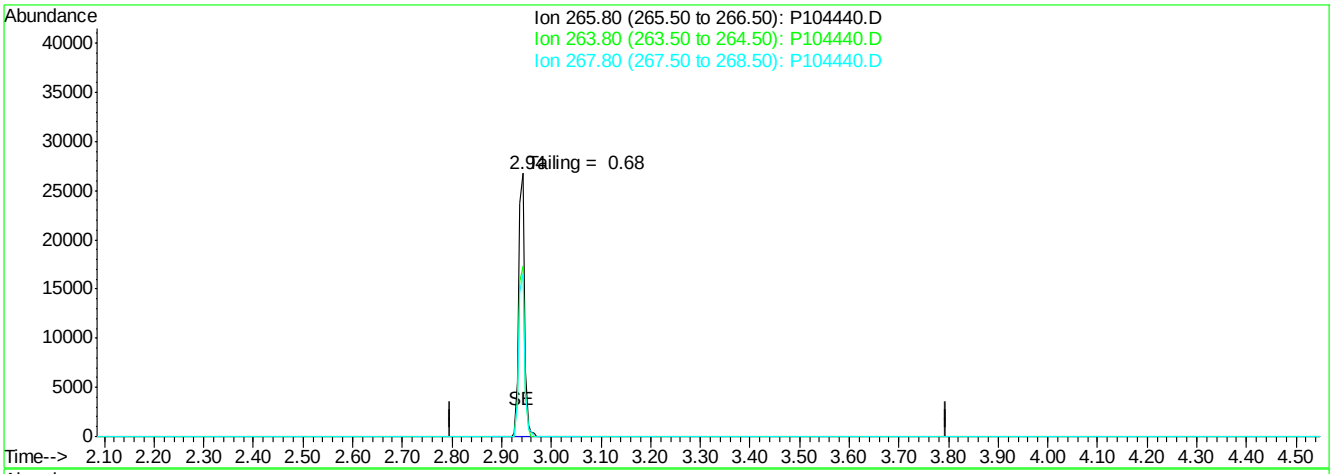
Average of 3.268 to 3.280 min.: P104440.D
dftpp
Modified:subtracted

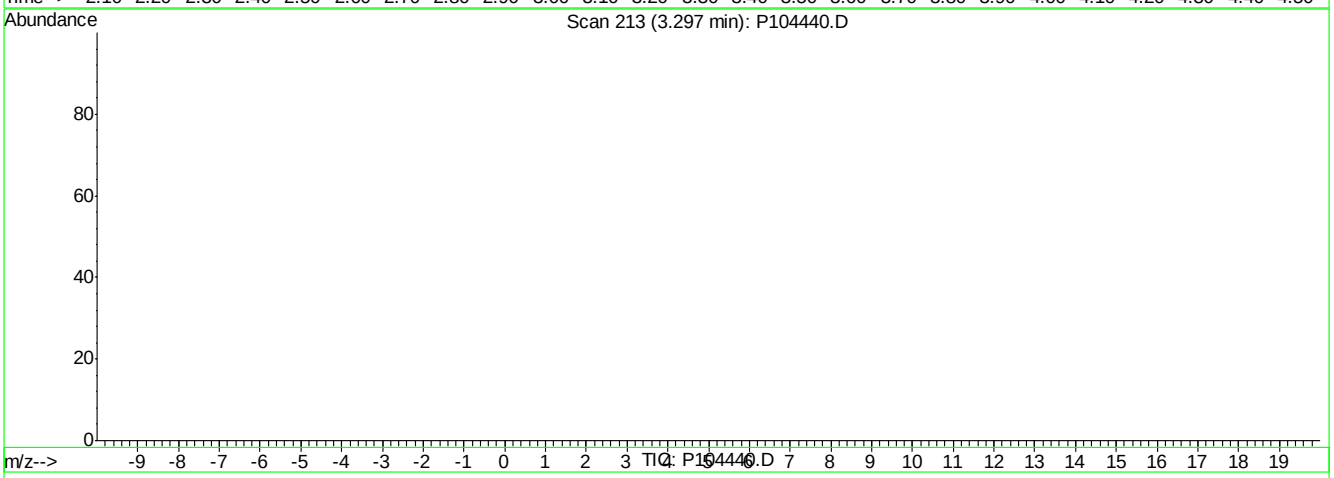
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
322.90	299						
333.90	178						
364.80	653						
371.90	136						
422.85	691						
440.90	2294						
441.90	14770						
443.00	2918						
444.00	134						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104440.D Vial: 1
Acq On : 28 Apr 2016 5:07 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 28 17:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.30min 0.00ppb

response 0

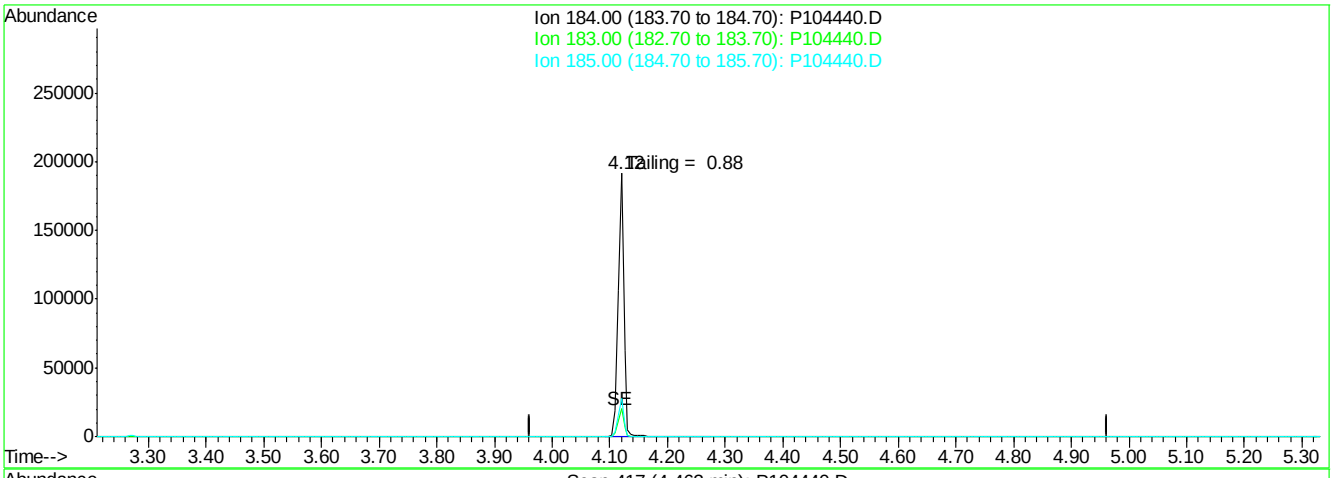
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.10	0.00#
267.80	63.20	0.00#
0.00	0.00	0.00

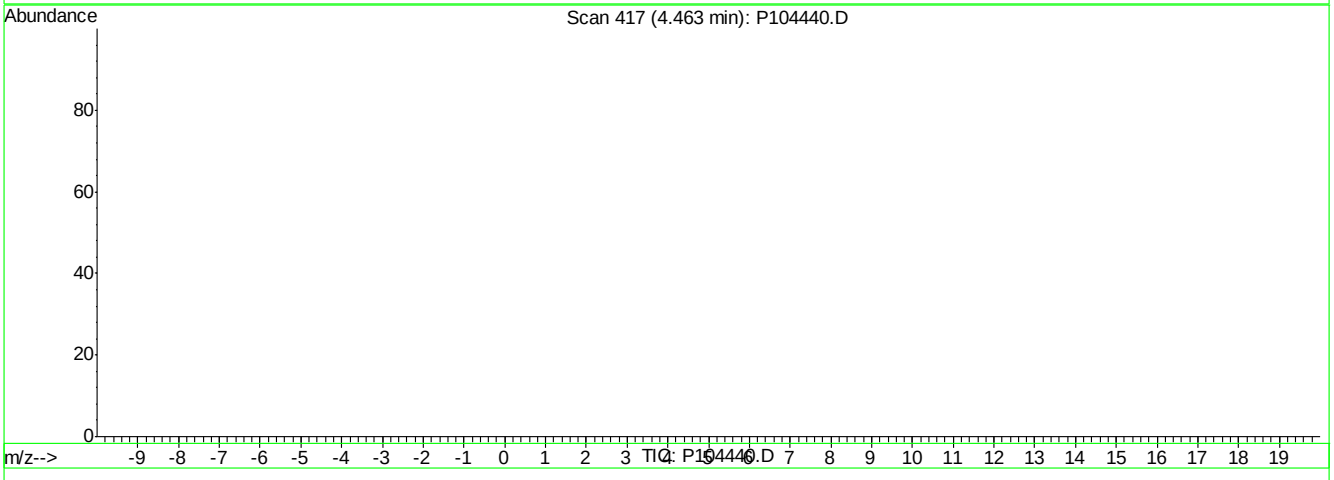
P104440.D DFTPPP.M Fri Apr 29 08:51:29 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104440.D Vial: 1
Acq On : 28 Apr 2016 5:07 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 28 17:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.46min 0.00ppb

response 0

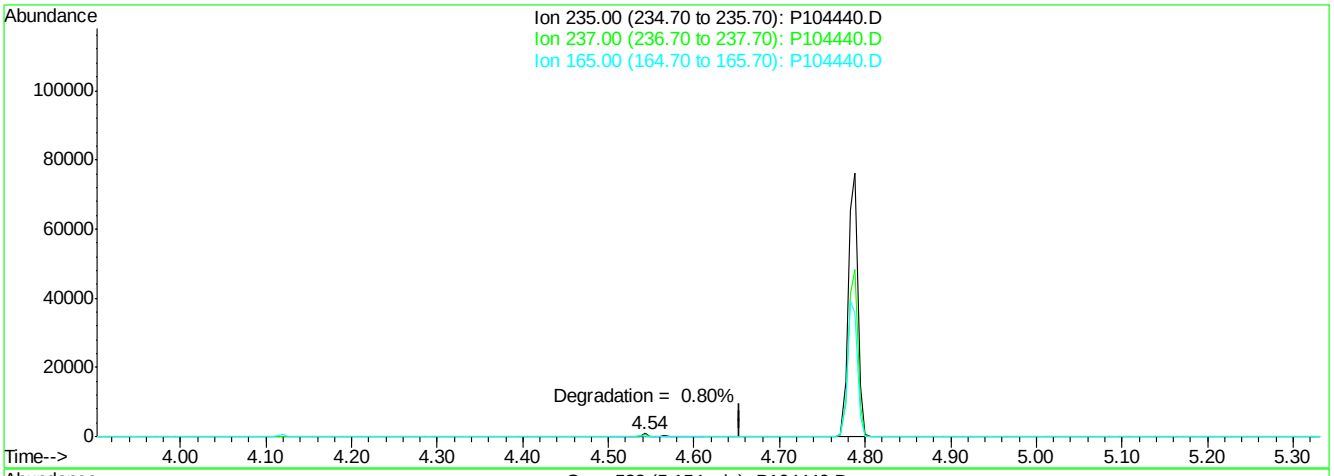
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

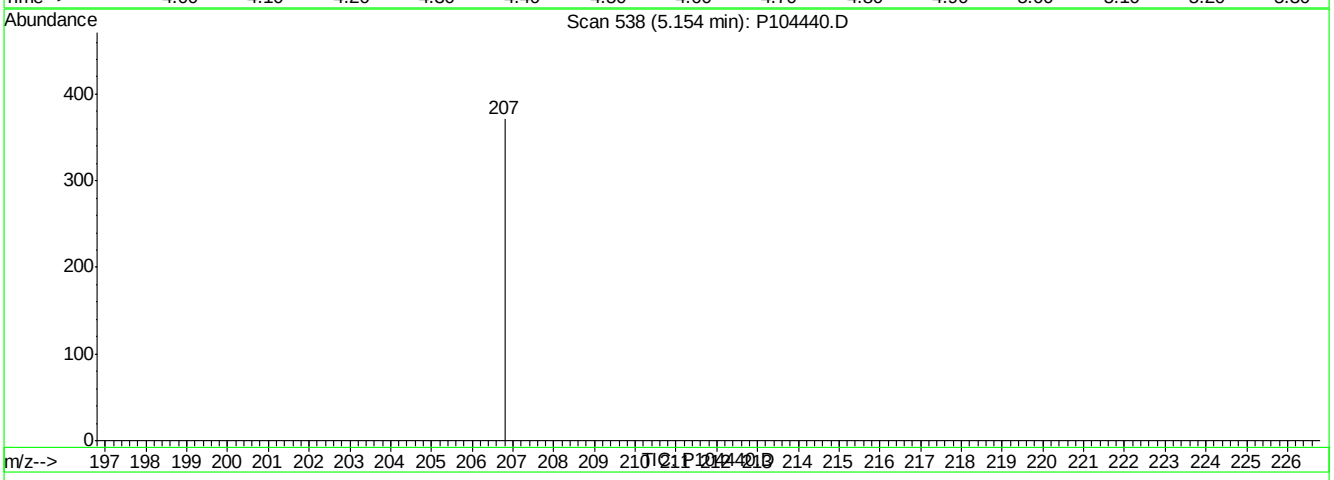
P104440.D DFTPPP.M Fri Apr 29 08:51:36 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104440.D Vial: 1
Acq On : 28 Apr 2016 5:07 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 28 17:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(3) ddt

5.15min 0.00ppb

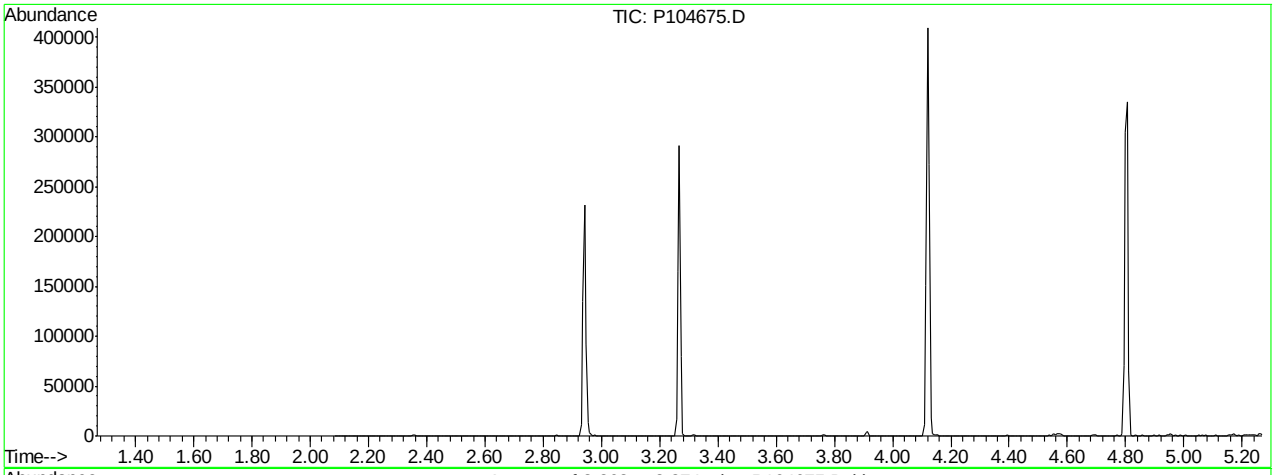
response 0

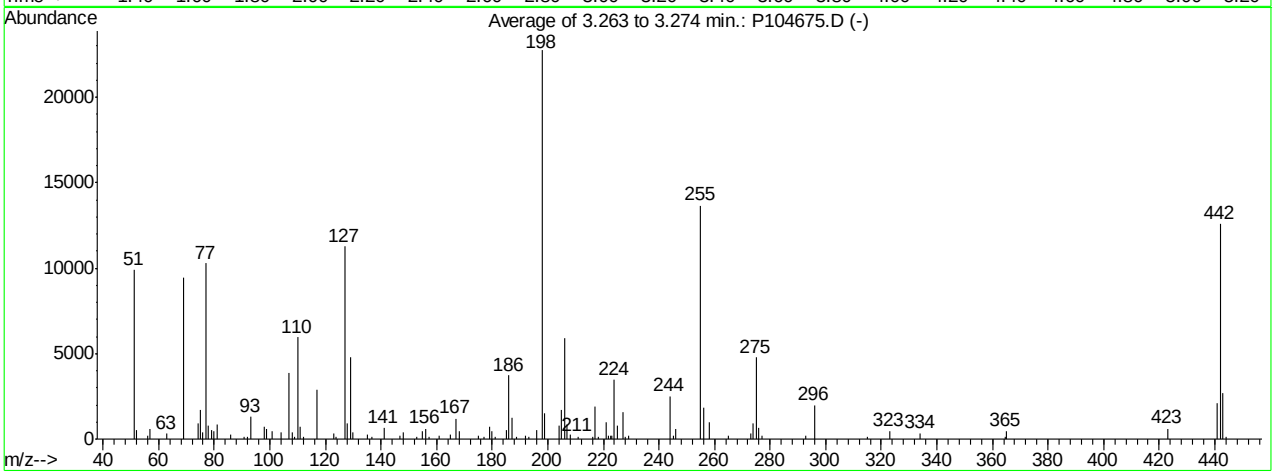
Ion	Exp%	Act%
235.00	100	0.00
237.00	65.40	0.00#
165.00	55.50	0.00#
0.00	0.00	0.00

P104440.D DFTPPP.M Fri Apr 29 08:51:43 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4614\P104675.D Vial: 1
Acq On : 9 May 2016 11:16 am Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93704,ep4614 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 207, 208, 209; Background Corrected with Scan 203

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.5	9882	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.6	9471	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.5	11264	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	22742	PASS
199	198	5	9	6.6	1503	PASS
275	198	10	30	21.0	4787	PASS
365	198	1	100	2.2	492	PASS
441	443	0.10	100	78.1	2085	PASS
442	198	40	100	55.3	12571	PASS
443	442	17	23	21.2	2669	PASS

P104675.D DFTPPP.M Mon May 09 13:47:08 2016

Average of 3.263 to 3.274 min.: P104675.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	9882	78.90	537	107.00	3843	128.90	4802
51.95	512	79.95	464	107.90	420	129.95	415
55.90	184	80.90	833	108.90	141	134.90	278
56.95	590	85.85	289	109.90	5965	136.90	133
62.90	306	90.80	142	111.05	731	141.00	633
68.95	9471	92.00	135	111.90	126	146.90	185
74.00	920	92.95	1282	116.90	2860	147.95	403
75.00	1681	97.95	694	123.00	310	152.70	148
75.95	400	98.95	578	123.80	138	154.85	433
77.00	10282	100.95	477	127.00	11264	155.95	615
78.00	781	103.90	375	127.95	947	157.10	134

Average of 3.263 to 3.274 min.: P104675.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
161.00	170	186.95	1265	207.95	260	226.95	1545
164.85	289	188.90	147	210.90	134	227.90	117
166.90	1189	191.90	202	216.00	118	229.00	186
168.00	452	193.00	154	216.90	1888	243.95	2509
175.00	209	196.00	550	218.00	130	245.00	195
176.90	137	197.90	22742	220.85	970	245.95	617
178.85	747	198.90	1503	221.70	195	254.90	13665
179.95	454	203.90	817	222.80	200	255.90	1821
180.90	131	204.95	1703	223.00	188	257.90	974
184.95	551	206.00	5917	223.95	3468	264.90	219
186.00	3711	206.90	844	224.95	820	272.90	311

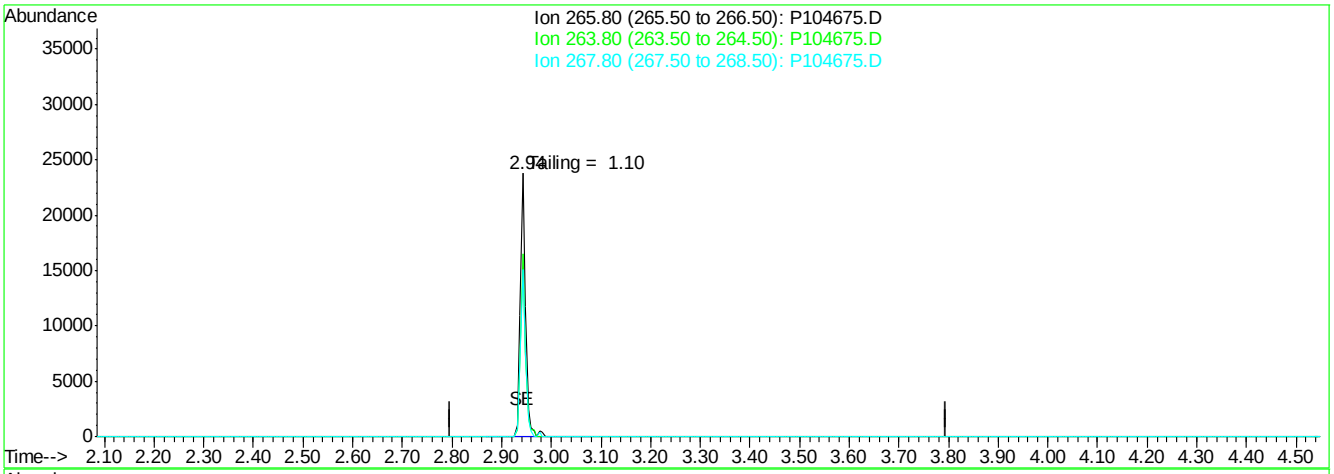
Average of 3.263 to 3.274 min.: P104675.D
dftpp
Modified:subtracted

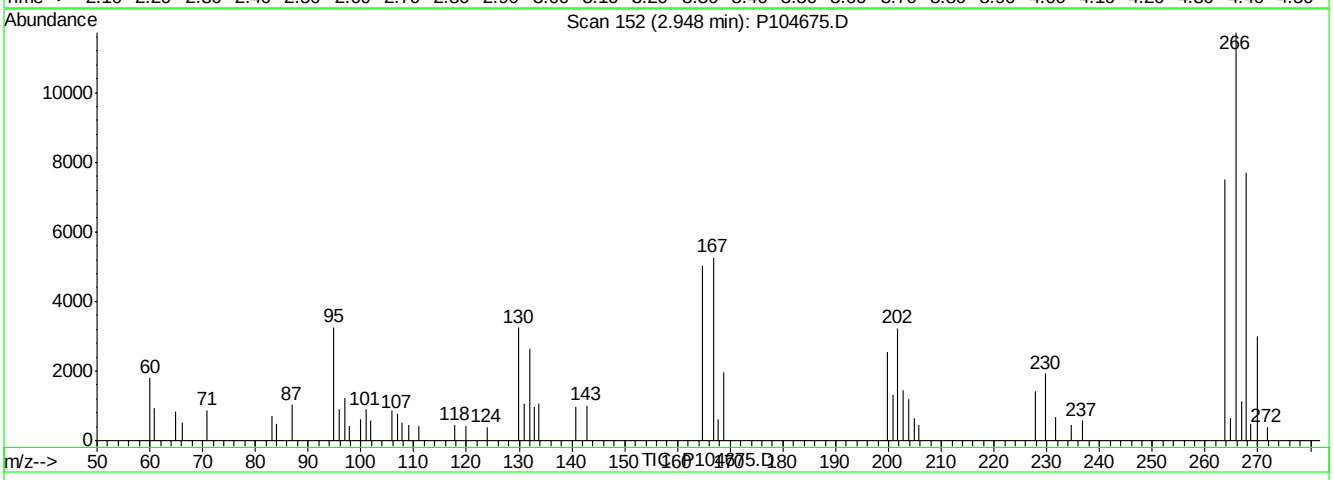
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
273.95	913	422.90	621				
274.90	4787	440.90	2085				
275.90	670	441.90	12571				
276.90	221	442.90	2669				
292.90	179	443.90	148				
295.90	1978						
314.80	132						
322.95	476						
334.10	329						
364.70	133						
364.90	492						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104675.D Vial: 1
Acq On : 9 May 2016 11:16 am Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93704,ep4614 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 9 11:22 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.30min 0.00ppb

response 0

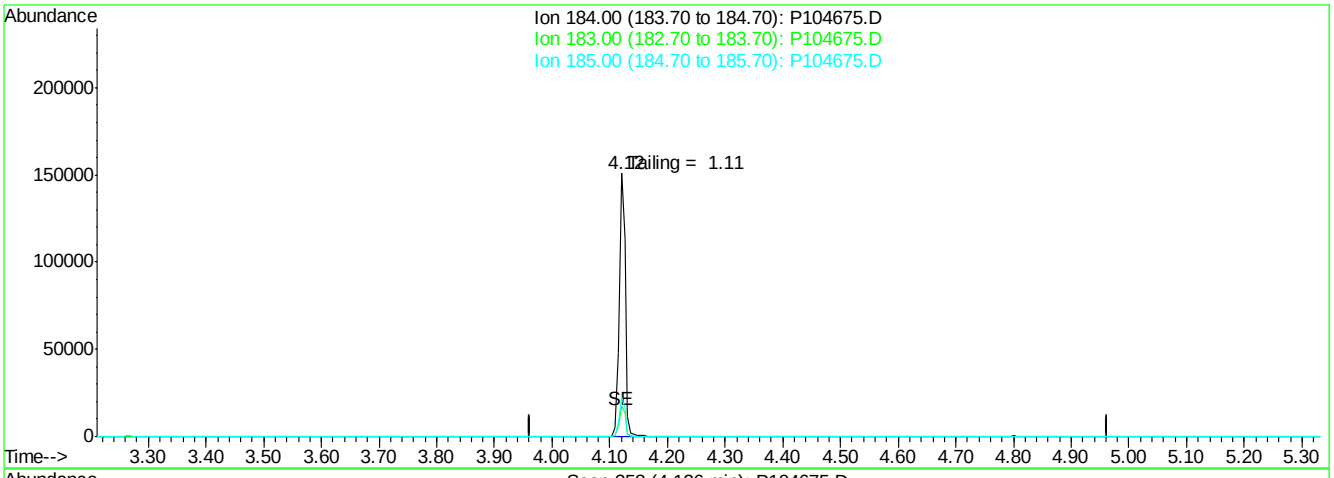
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.10	0.00#
267.80	63.20	0.00#
0.00	0.00	0.00

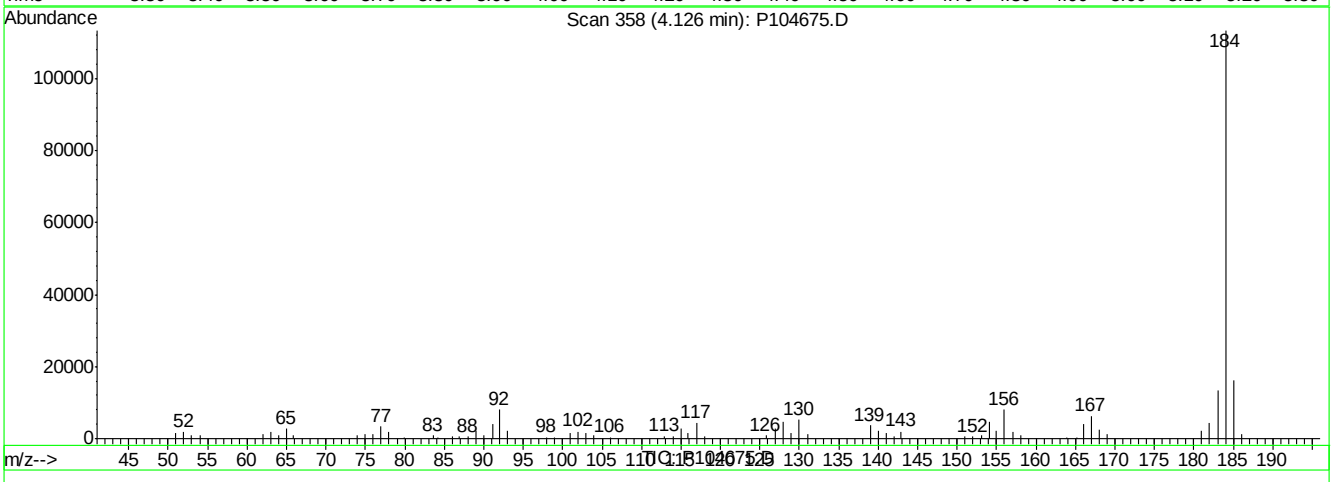
P104675.D DFTPPP.M Mon May 09 13:46:50 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104675.D Vial: 1
Acq On : 9 May 2016 11:16 am Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93704,ep4614 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 9 11:22 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.46min 0.00ppb

response 0

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

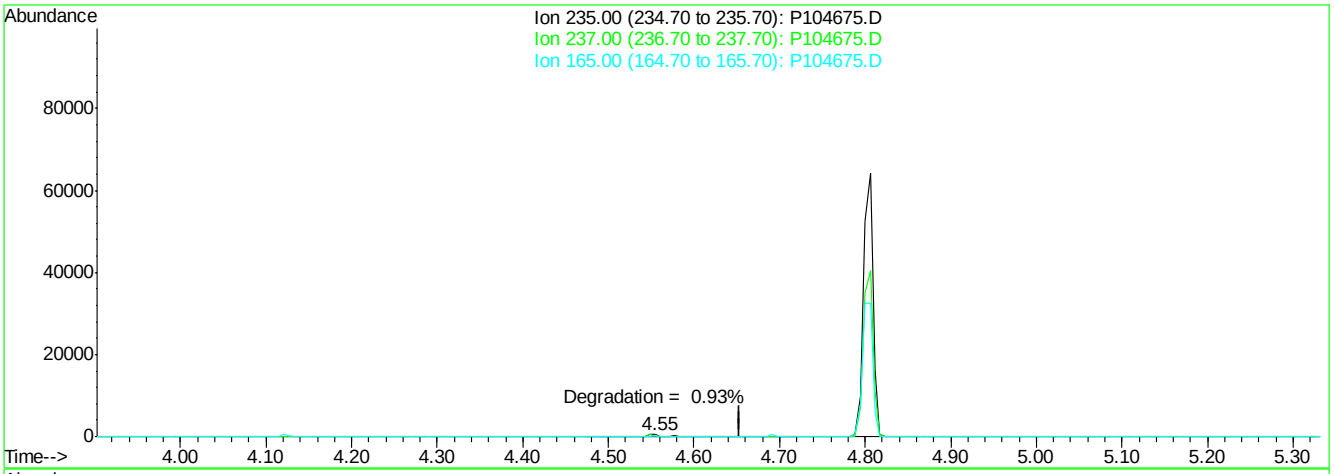
P104675.D DFTPPP.M Mon May 09 13:46:56 2016

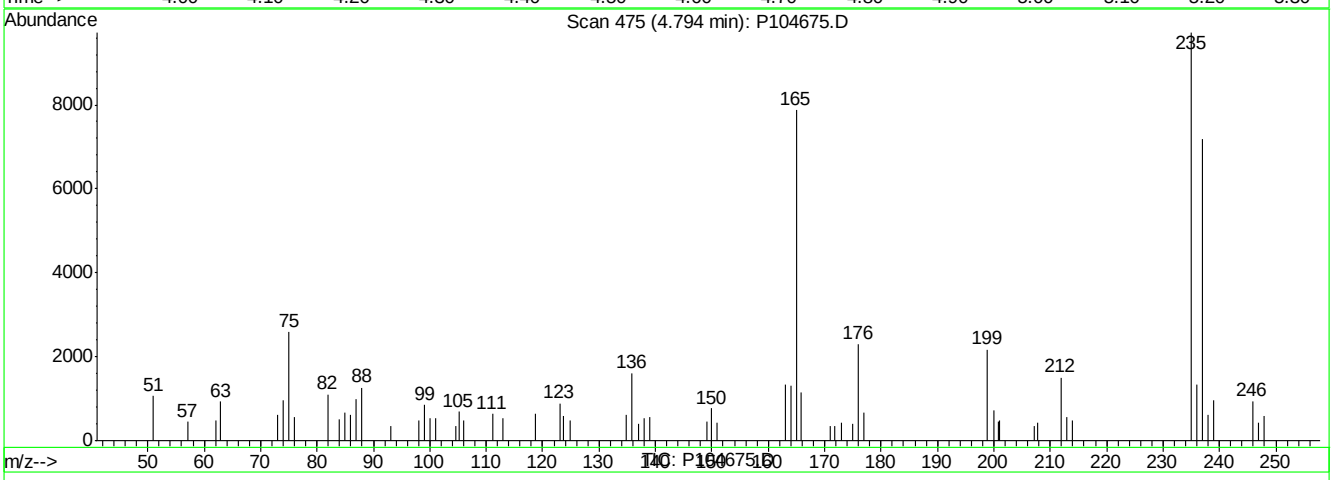
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104675.D Vial: 1
Acq On : 9 May 2016 11:16 am Operator: linseyk
Sample : dftpp Inst : MSP
Misc : op93704,ep4614 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 9 11:22 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jan 06 10:49:26 2016
Response via : Single Level Calibration





(3) ddt

5.15min 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	65.40	0.00#
165.00	55.50	0.00#
0.00	0.00	0.00

P104675.D DFTPPP.M Mon May 09 13:47:03 2016

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 JC19759

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

7.6.1

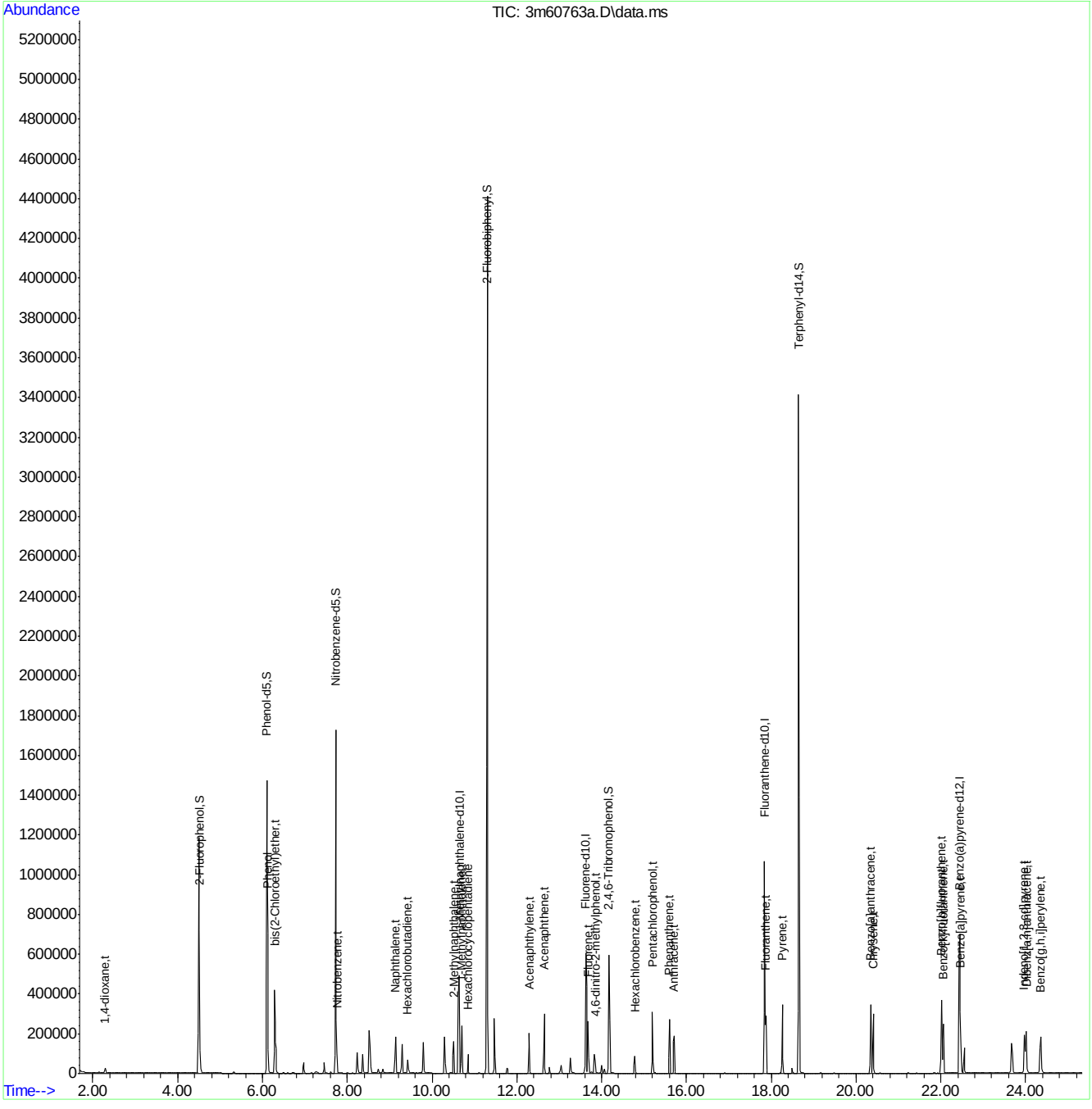
7

SGS ACCUTEST JC19759

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

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

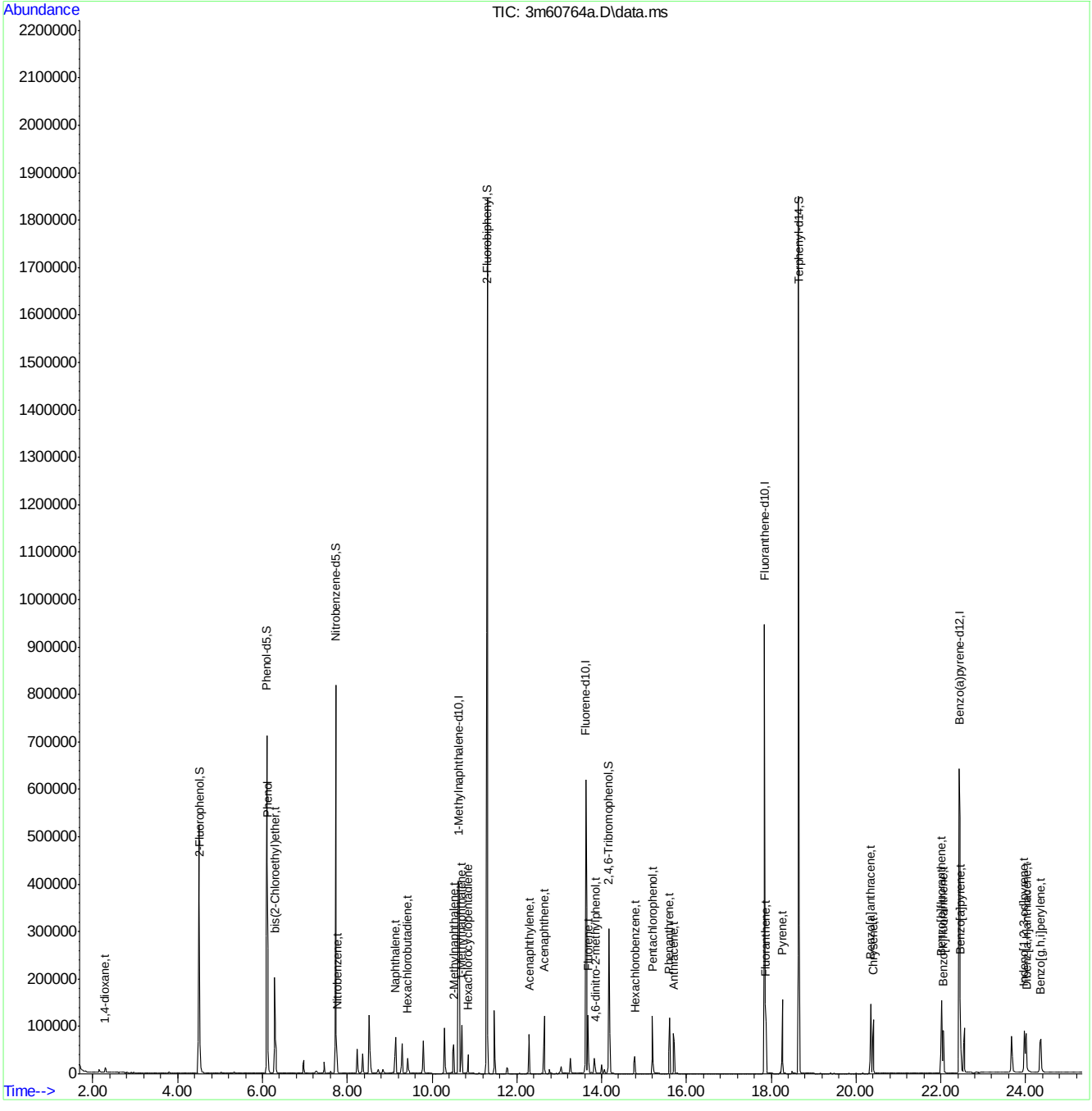
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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 JC19759

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

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

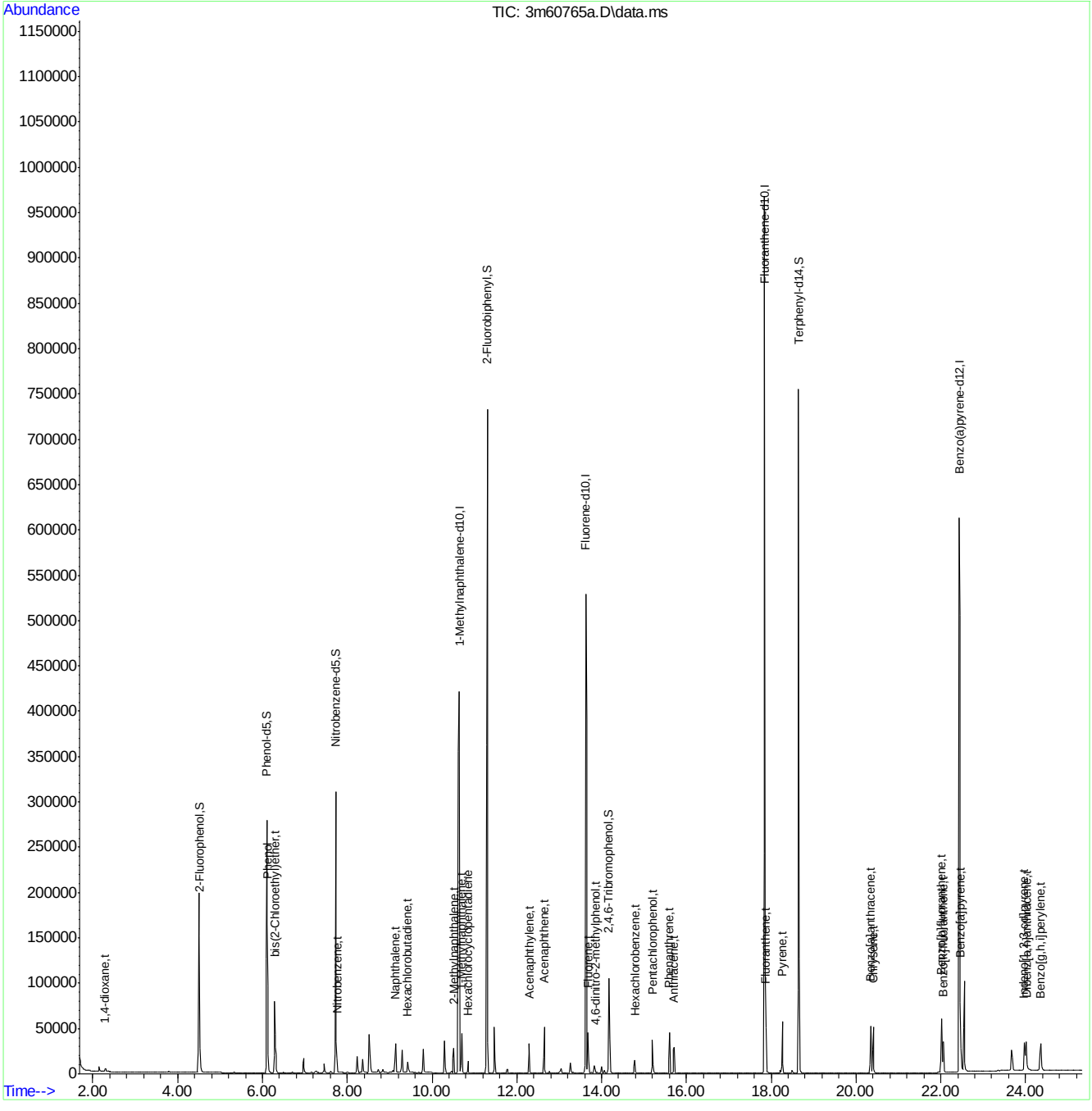
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

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



M3M2855SIM.M Fri Apr 22 08:27:14 2016 RPT1 Page: 3

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 JC19759

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

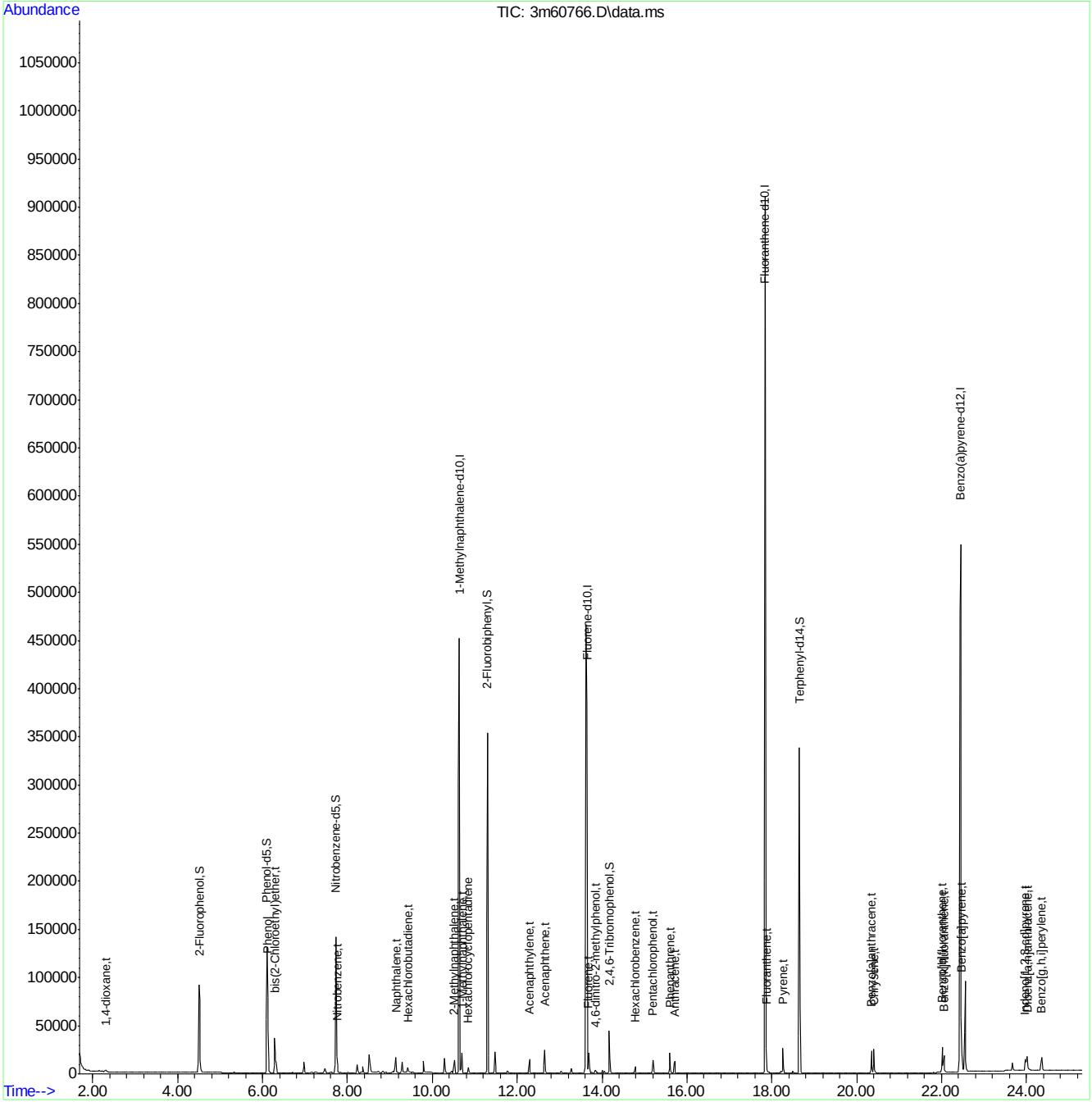
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

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

SGS ACCUTEST JC19759

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)

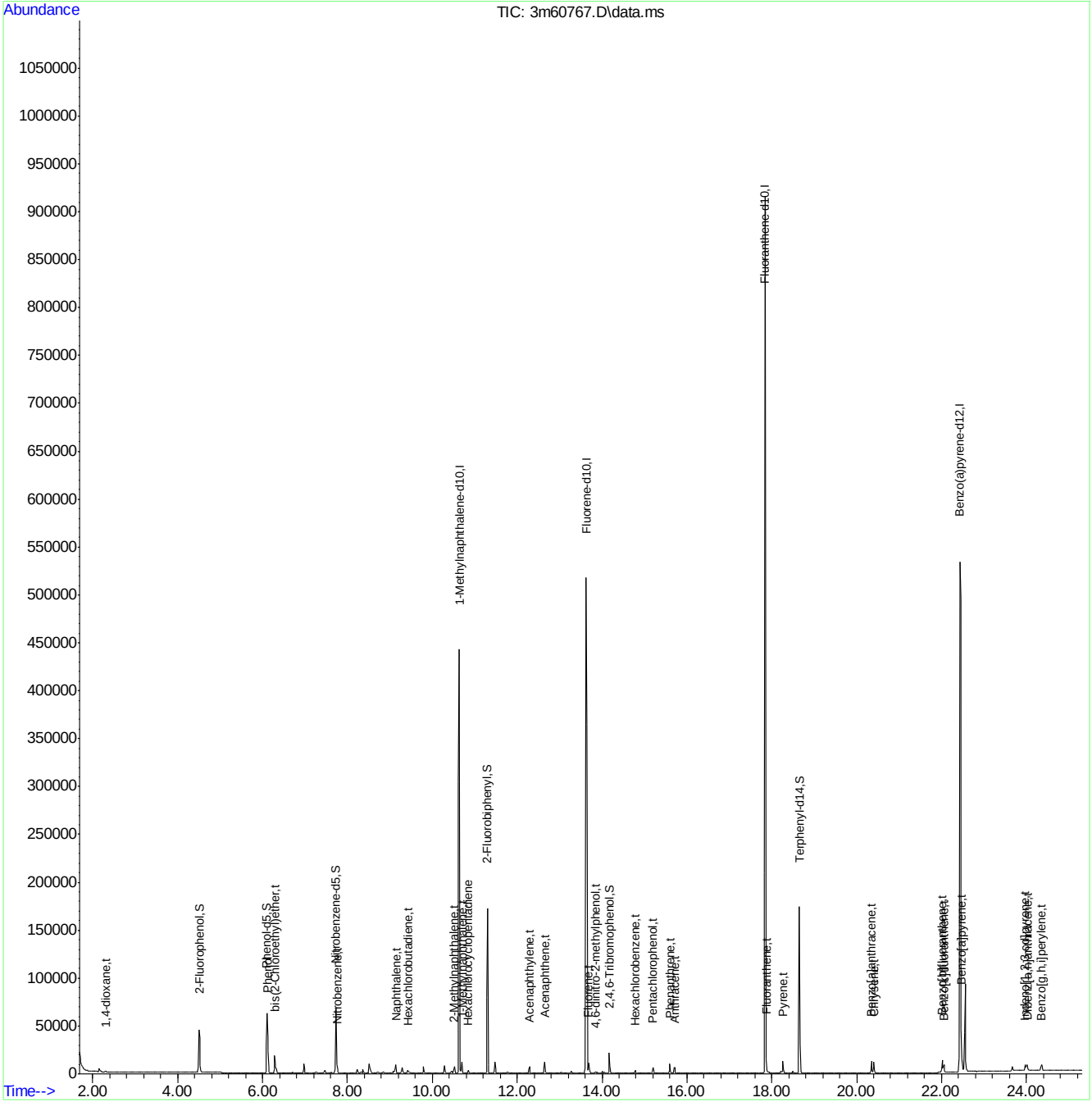
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

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



M3M2855SIM.M Fri Apr 22 09:05:18 2016 RPT1 Page: 3

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)

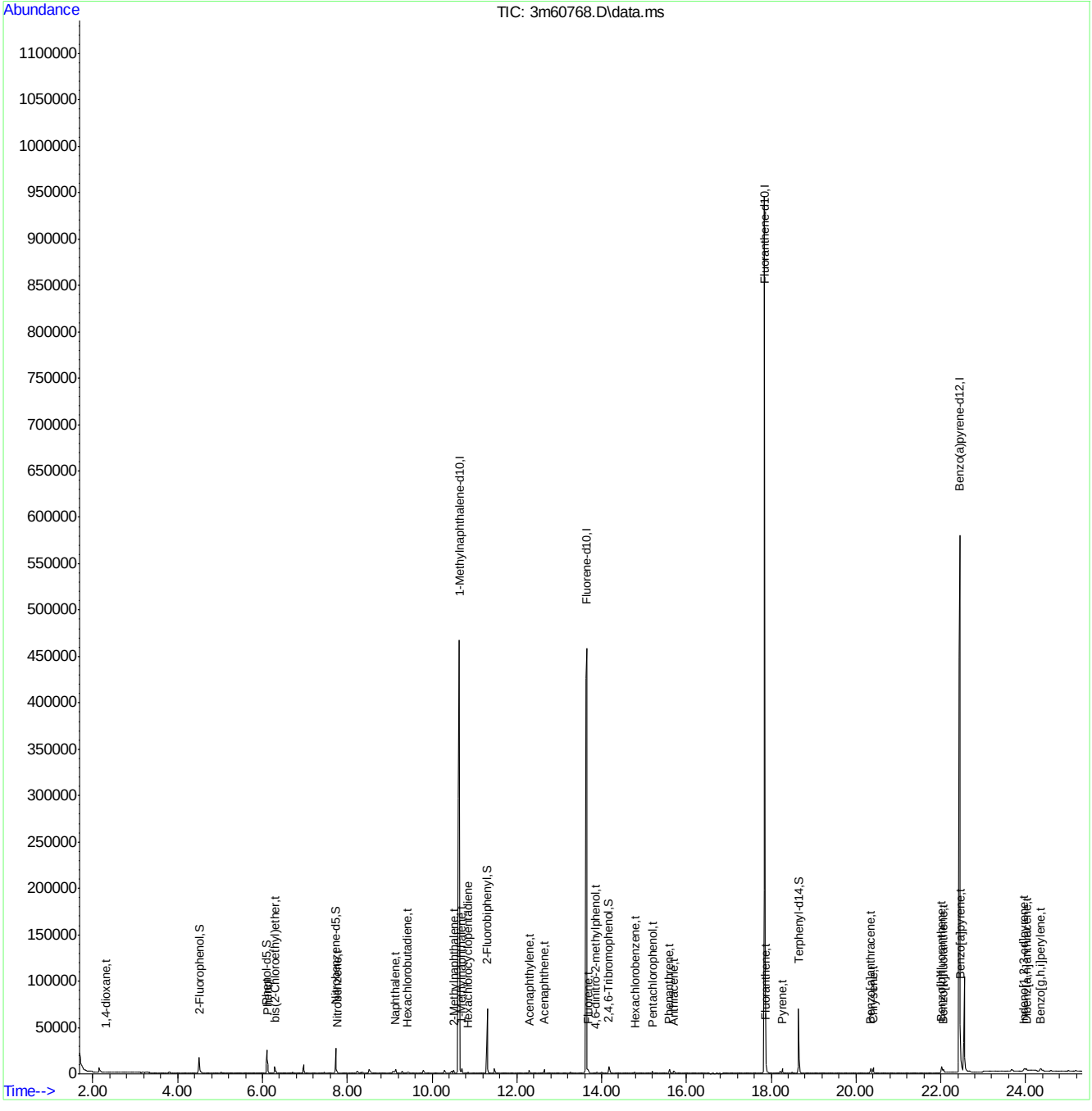
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

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 JC19759

Manual Integration Approval Summary

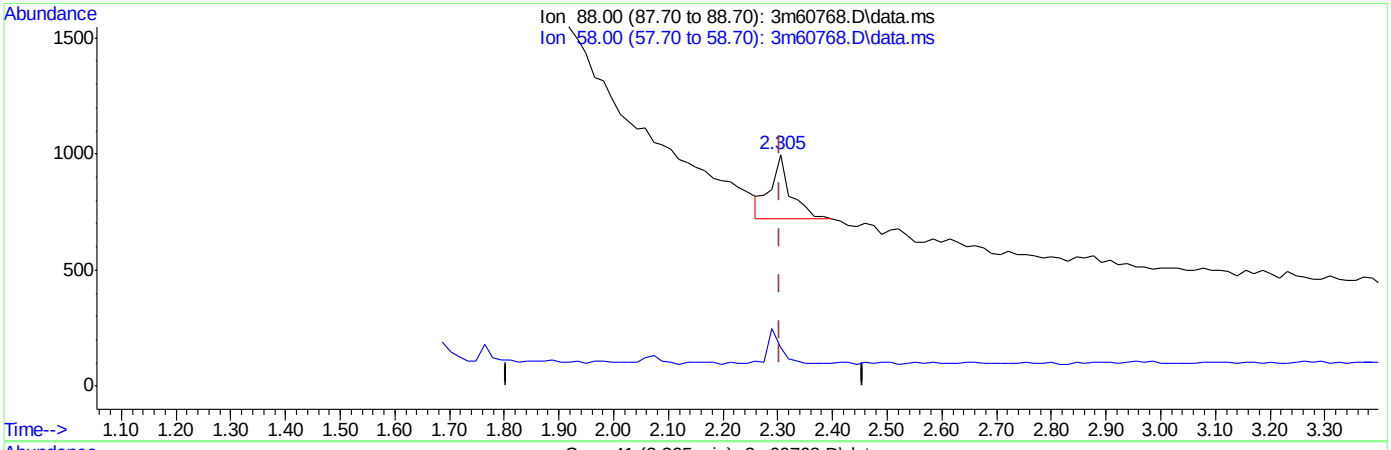
Sample Number:	E3M2855-IC2855	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M60768.D	**Analyst approved:**	04/22/16 09:15 Linsey Kirschmann
Injection Time:	04/21/16 17:17	**Supervisor approved:**	04/22/16 12:27 Nina Pandya

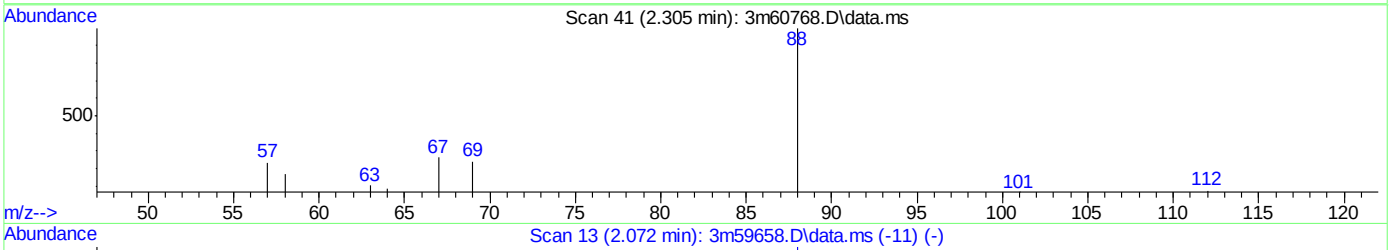
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.30	Baseline ripple
Benzo(a)pyrene	50-32-8		22.46	Baseline ripple

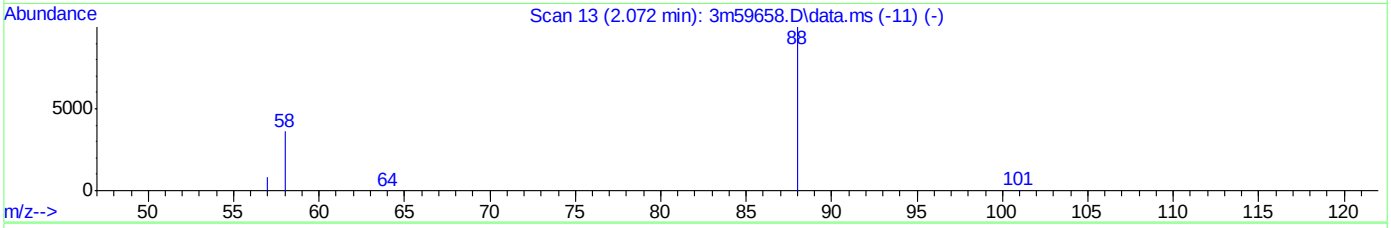
Quantitation Report (Qedit)

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

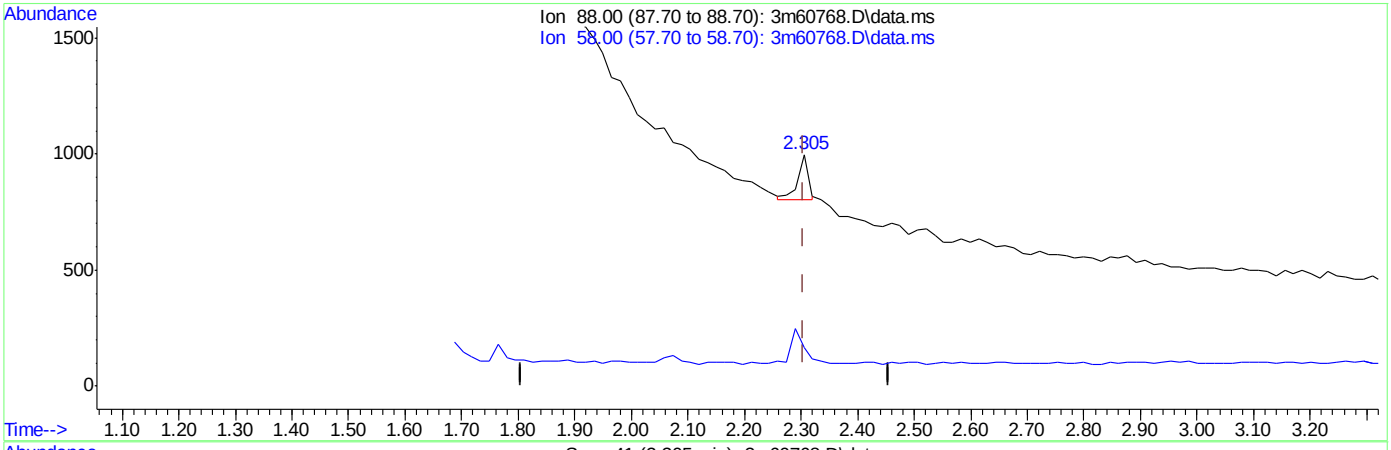
response 710

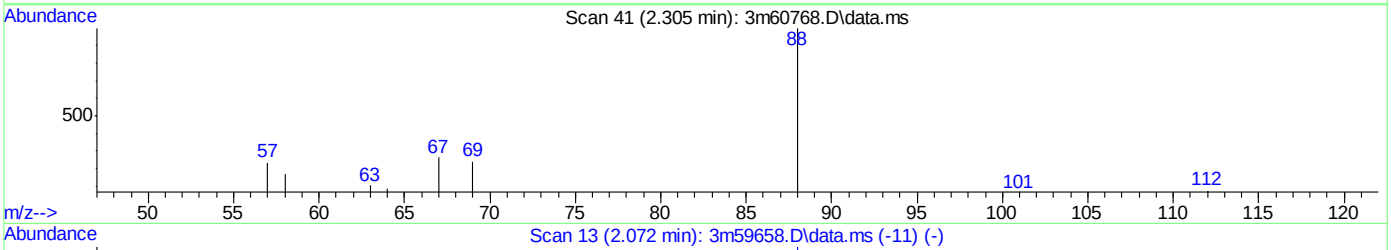
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	28.23
0.00	0.00	0.00
0.00	0.00	0.00

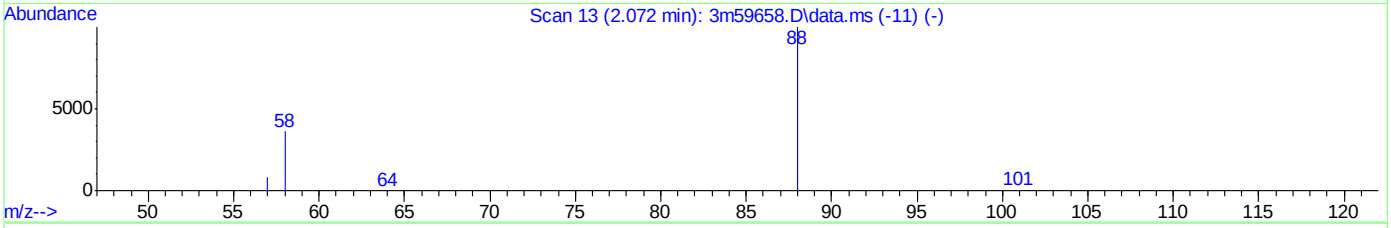
Quantitation Report (Qedit)

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

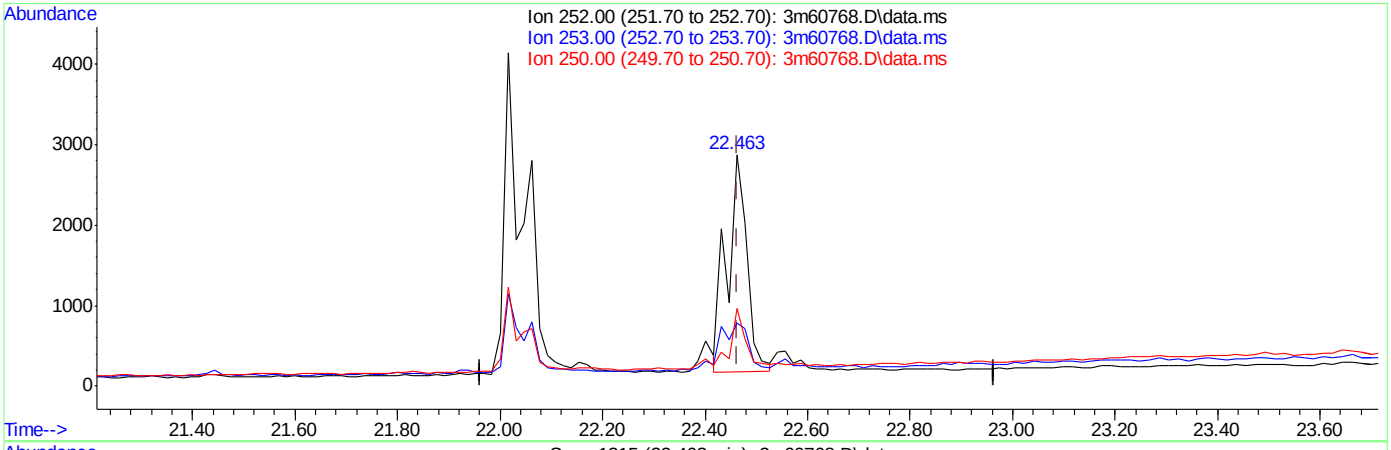
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	16.63
0.00	0.00	0.00
0.00	0.00	0.00

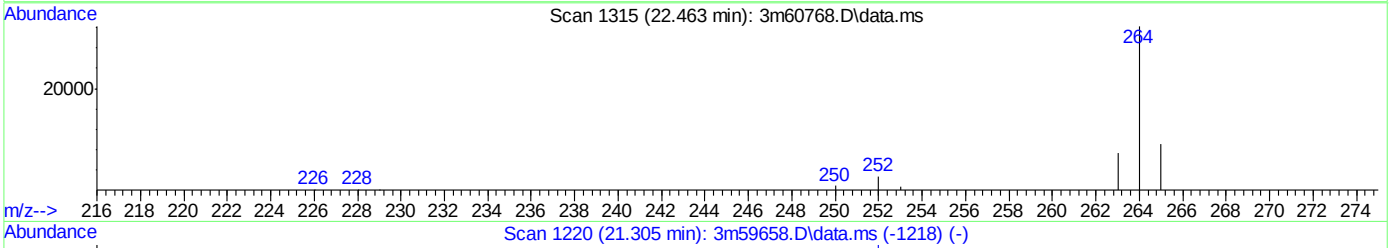
SGS ACCUTEST JC19759

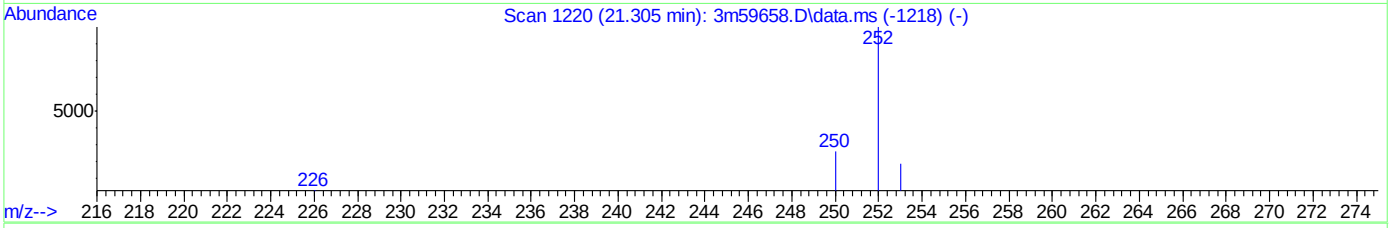
Quantitation Report (Qedit)

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

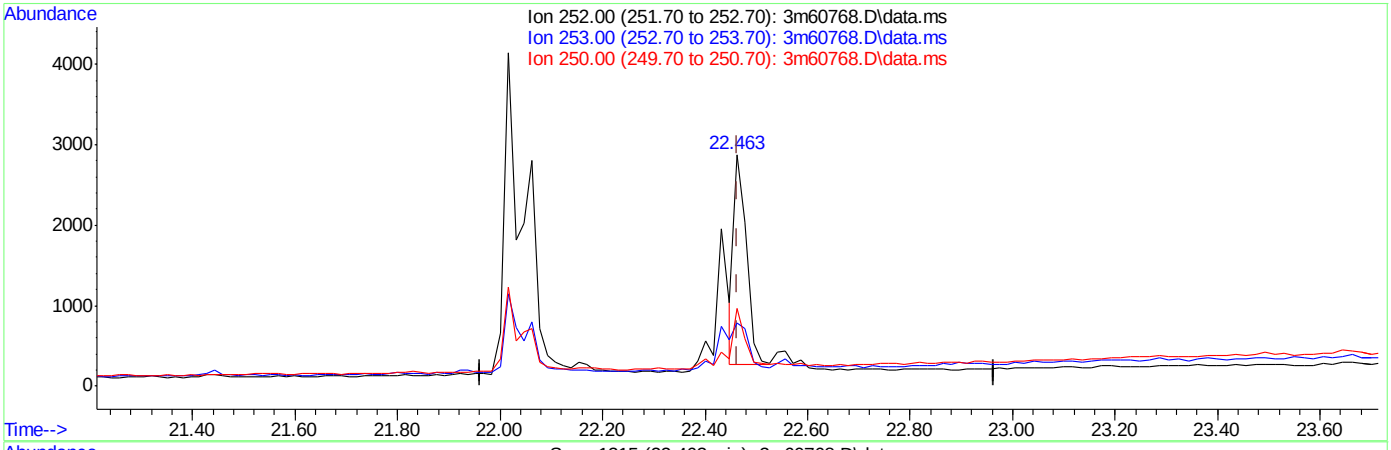
response 7218

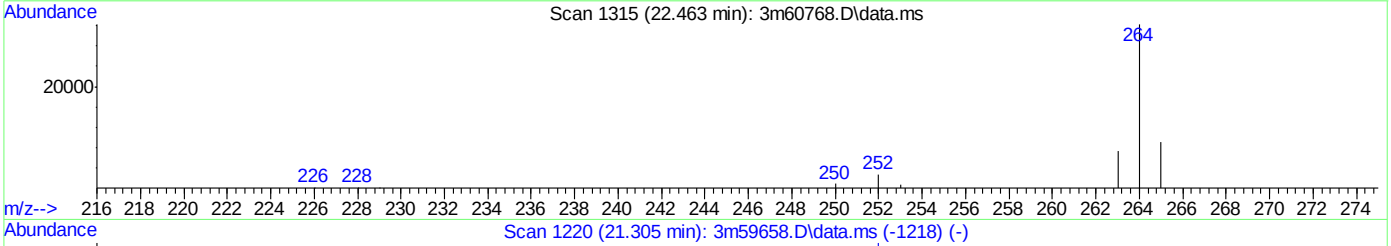
Ion	Exp%	Act%
252.00	100	100
253.00	18.80	20.93
250.00	26.10	27.47
0.00	0.00	0.00

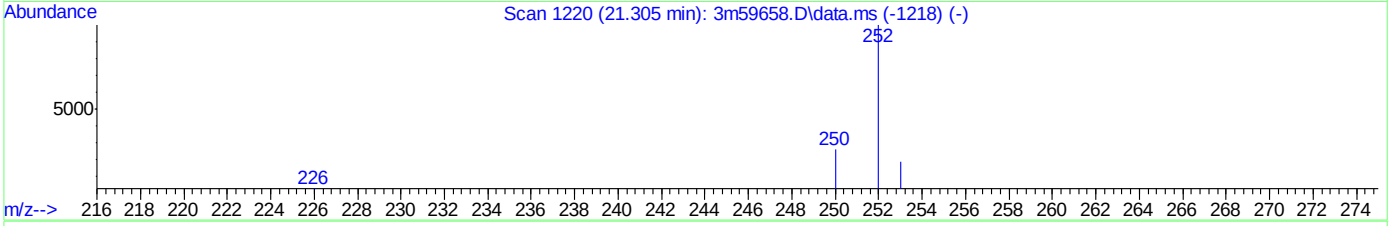
Quantitation Report (Qedit)

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

3M60769.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya 04/22/16 12:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.640	150	341727	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	510798	4.00 ppm	0.00
21) Fluoranthene-d10	17.843	212	894999	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	717706	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.515	112	7703	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
4) Phenol-d5	6.104	99	12728	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
7) Nitrobenzene-d5	7.726	82	11420	0.17 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.34%	
15) 2-Fluorobiphenyl	11.303	172	27514	0.19 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.38%	
20) 2,4,6-Tribromophenol	14.172	330	2174	0.13 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.26%	
28) Terphenyl-d14	18.647	244	28577	0.21 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.42%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.305	88	176m	0.01 ppm	
5) Phenol	6.116	94	3362	0.04 ppm	# 69
6) bis(2-Chloroethyl)ether	6.285	93	566	0.01 ppm	89
8) Nitrobenzene	7.764	77	712	0.01 ppm	83
9) Naphthalene	9.139	128	1910	0.01 ppm	98
10) Hexachlorobutadiene	9.421	225	308	0.01 ppm	98
11) 2-Methylnaphthalene	10.517	141	971	0.01 ppm	94
12) 1-Methylnaphthalene	10.702	141	1726	0.01 ppm	95
13) Hexachlorocyclopentadiene	10.846	237	382	0.02 ppm	97
16) Acenaphthylene	12.293	152	1639	0.01 ppm	99
17) Acenaphthene	12.648	153	1117	0.01 ppm	98
18) 4,6-dinitro-2-methylph...	13.852	198	146	0.01 ppm	70
19) Fluorene	13.682	166	1465	0.01 ppm	99
22) Hexachlorobenzene	14.783	284	417	0.01 ppm	95
23) Pentachlorophenol	15.200	266	877	0.04 ppm	98
24) Phenanthrene	15.602	178	2267	0.01 ppm	98
25) Anthracene	15.711	178	1713	0.01 ppm	97
26) Fluoranthene	17.874	202	4045	0.02 ppm	99
27) Pyrene	18.261	202	2880	0.01 ppm	98
29) Benzo[a]anthracene	20.347	228	3441	0.02 ppm	98
30) Chrysene	20.408	228	4214	0.02 ppm	97
32) Benzo[b]fluoranthene	22.015	252	4562	0.02 ppm	88
33) Benzo[k]fluoranthene	22.062	252	1997	0.01 ppm	94
34) Benzo[a]pyrene	22.463	252	2699	0.01 ppm	86
35) Indeno[1,2,3-cd]pyrene	23.963	276	2125	0.01 ppm	100
36) Dibenz[a,h]anthracene	24.020	278	2112	0.01 ppm	100
37) Benzo[g,h,i]perylene	24.358	276	1927	0.01 ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration

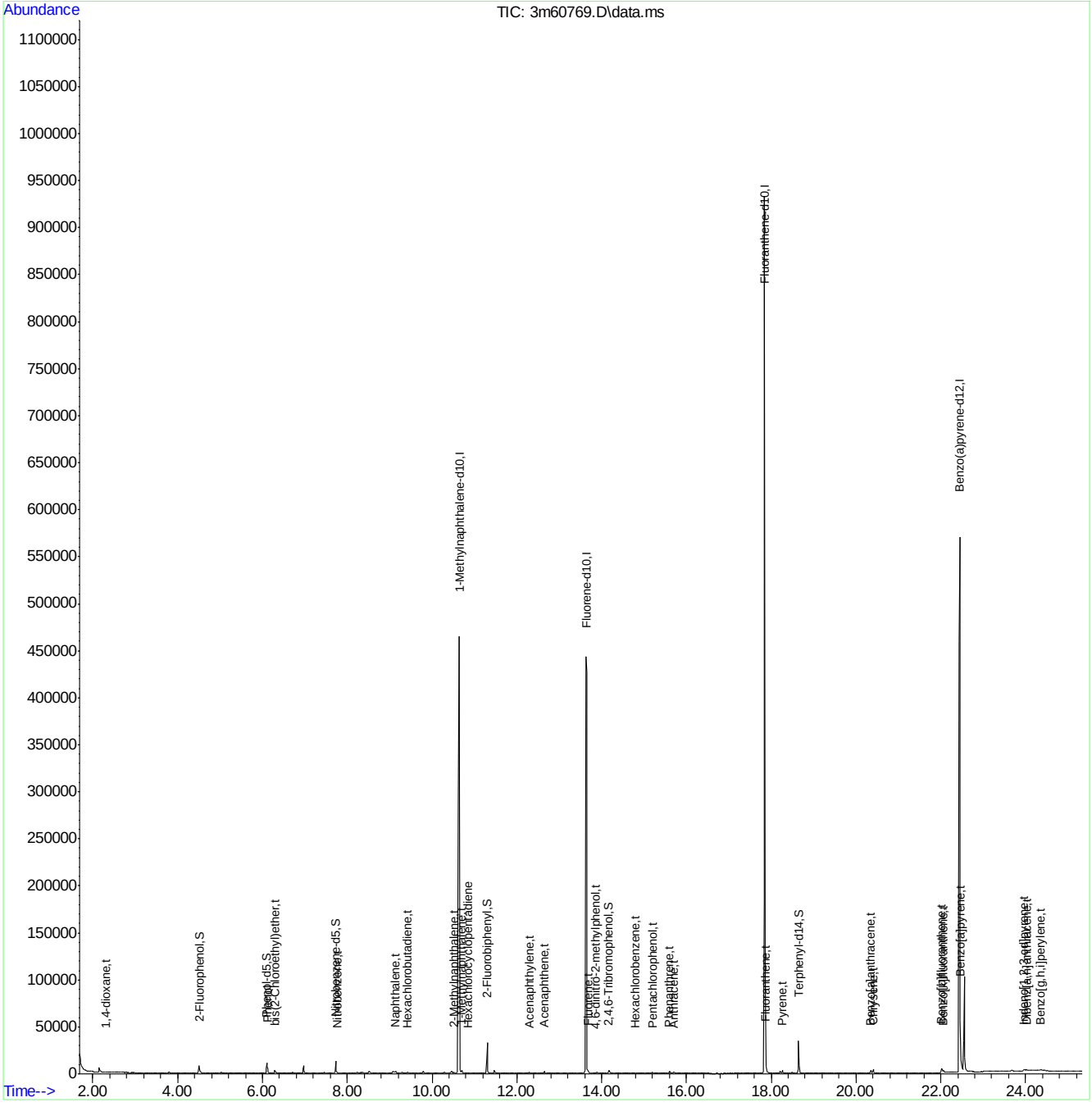
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Manual Integration Approval Summary

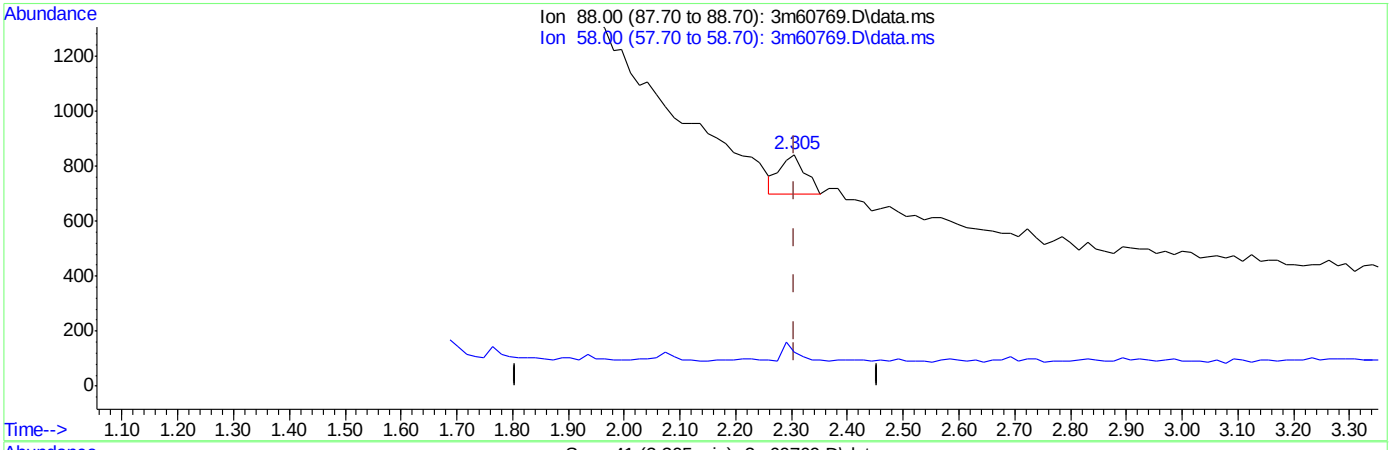
Sample Number:	E3M2855-IC2855	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M60769.D	**Analyst approved:**	04/22/16 09:15 Linsey Kirschmann
Injection Time:	04/21/16 17:49	**Supervisor approved:**	04/22/16 12:27 Nina Pandya

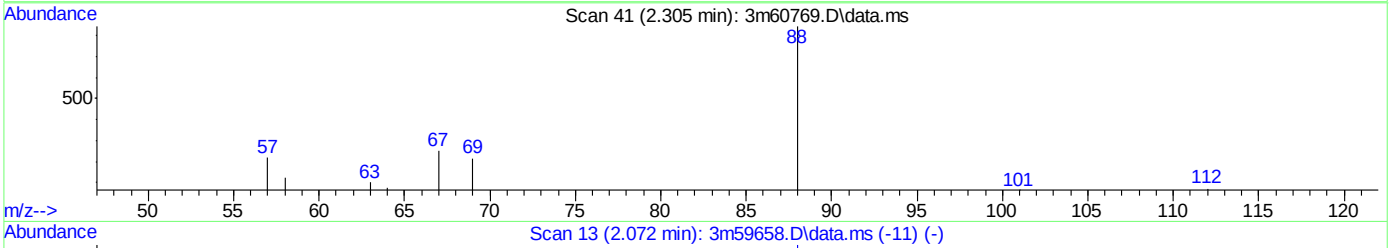
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.31	Baseline ripple

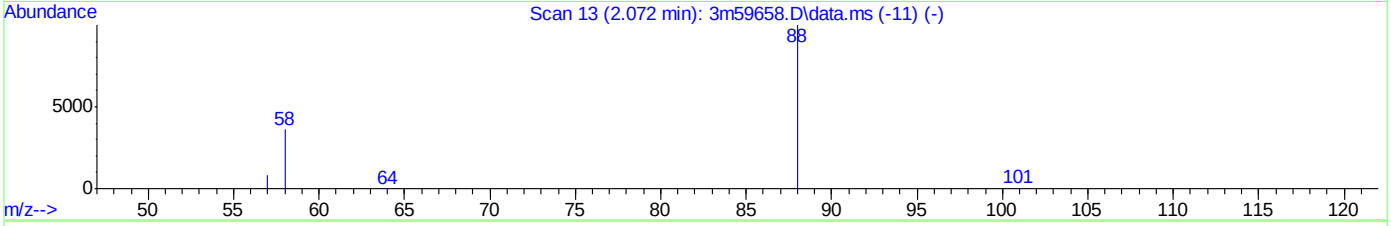
Quantitation Report (Qedit)

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

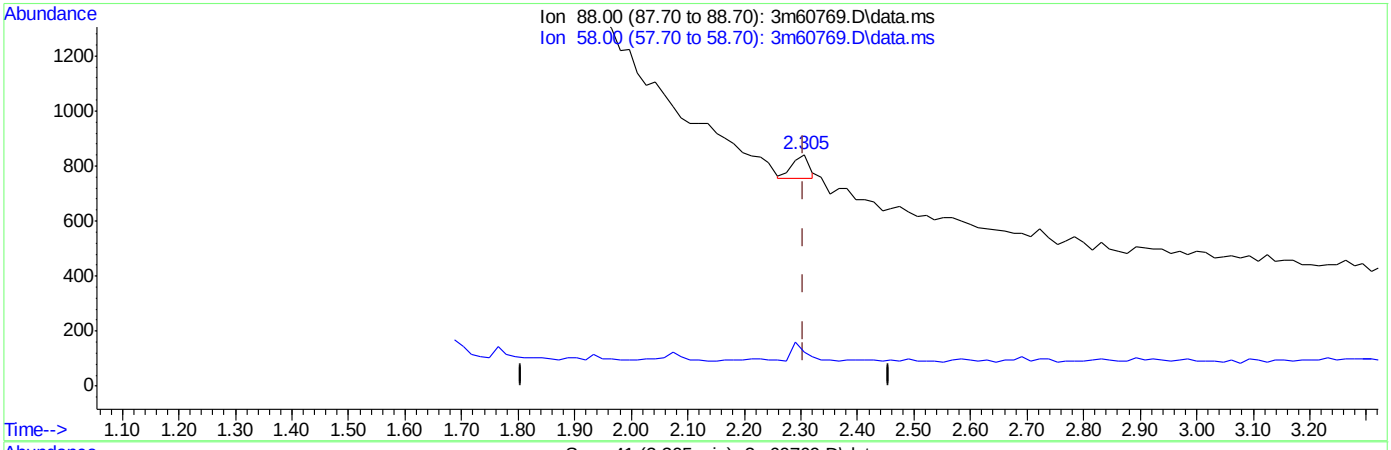
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	25.45
0.00	0.00	0.00
0.00	0.00	0.00

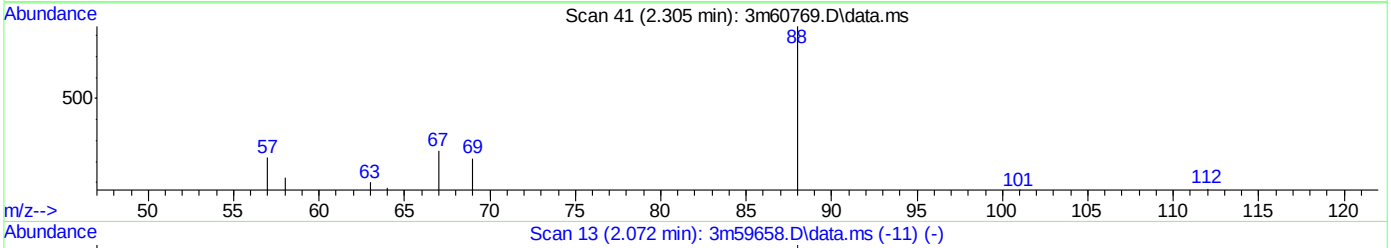
SGS ACCUTEST JC19759

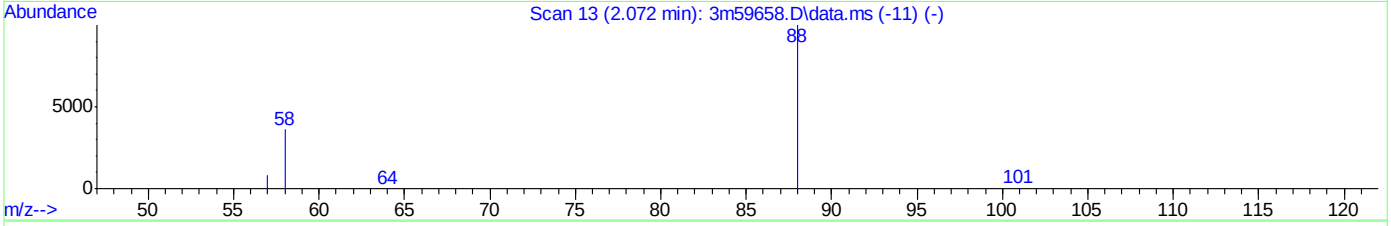
Quantitation Report (Qedit)

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 JC19759

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

7.6.8

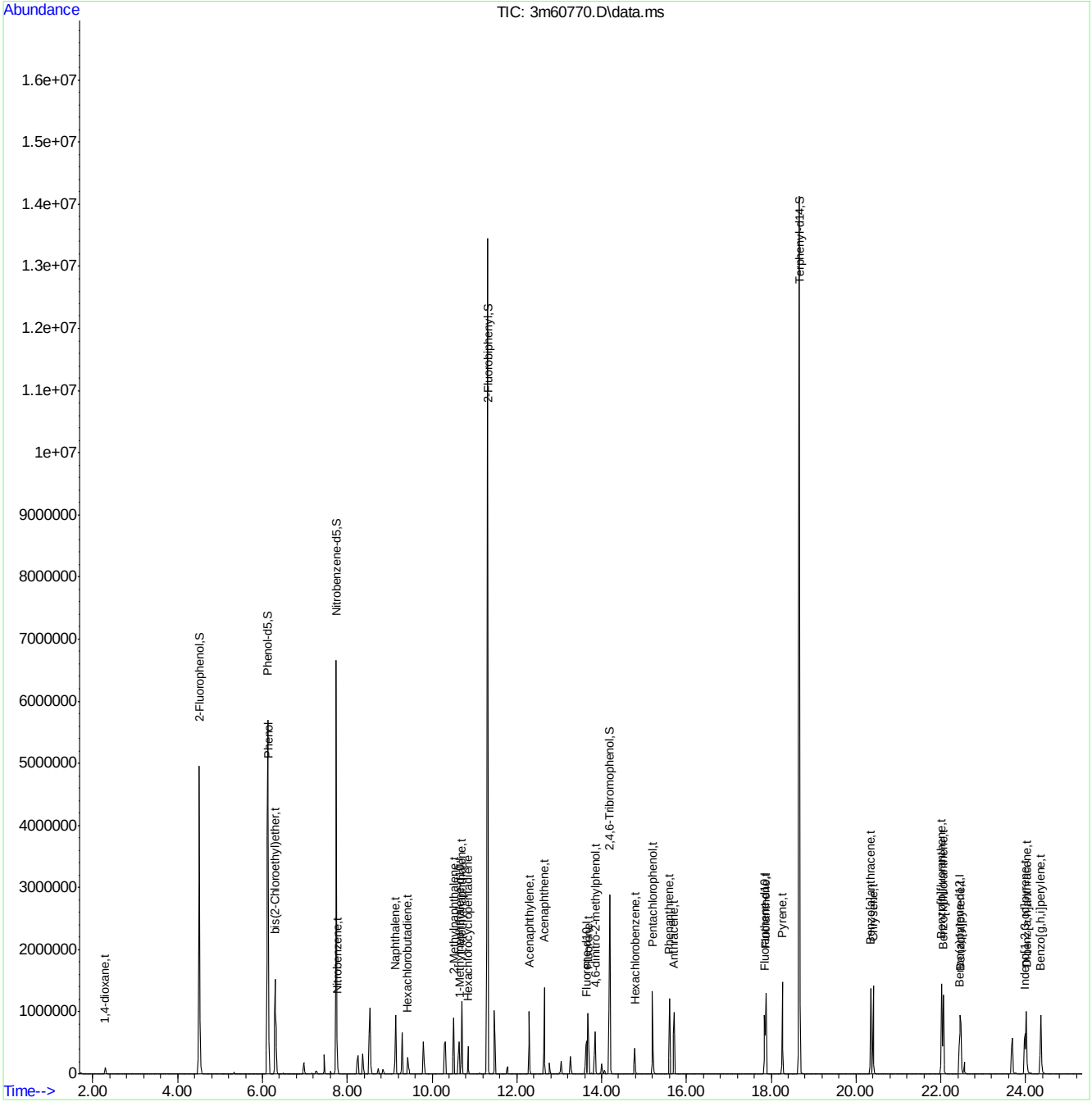
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60770.D
Acq On : 21 Apr 2016 6:22 pm
Operator : linseyk
Sample : ic2855-5.0
Misc : op93052a,e3m2855
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 22 08:30:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:48 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

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 JC19759

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

7.6.9

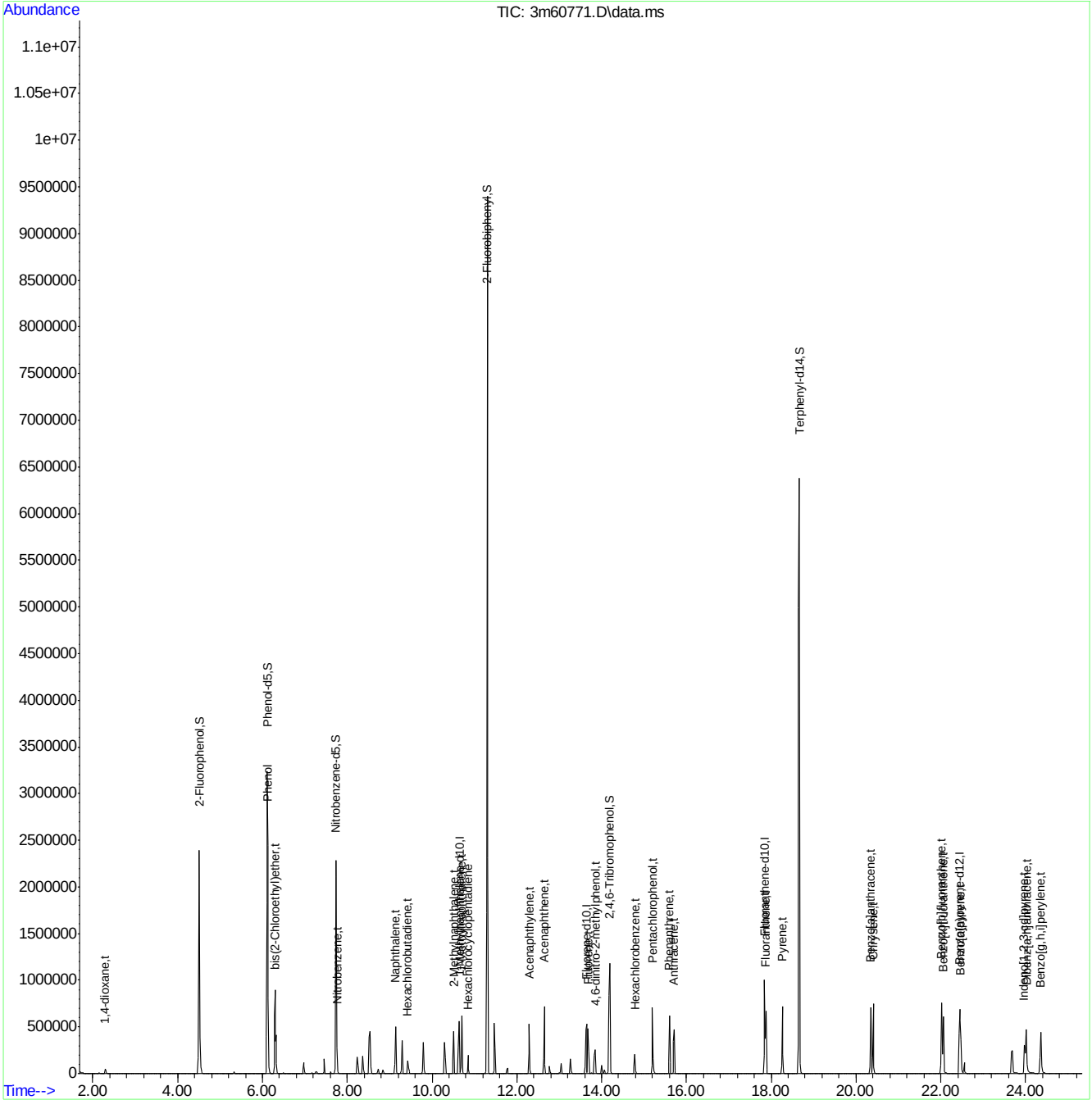
7

SGS ACCUTEST JC19759

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 JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60772.D
Acq On : 21 Apr 2016 7:27 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 22 08:56:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.641	150	468880	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	745589	4.00 ppm	0.00
21) Fluoranthene-d10	17.844	212	1195677	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	940216	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
5) Phenol	6.128	94	476638	4.56 ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	87949	3.84 ppm	95
23) Pentachlorophenol	15.201	266	168629	4.34 ppm	92

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

7.6.10

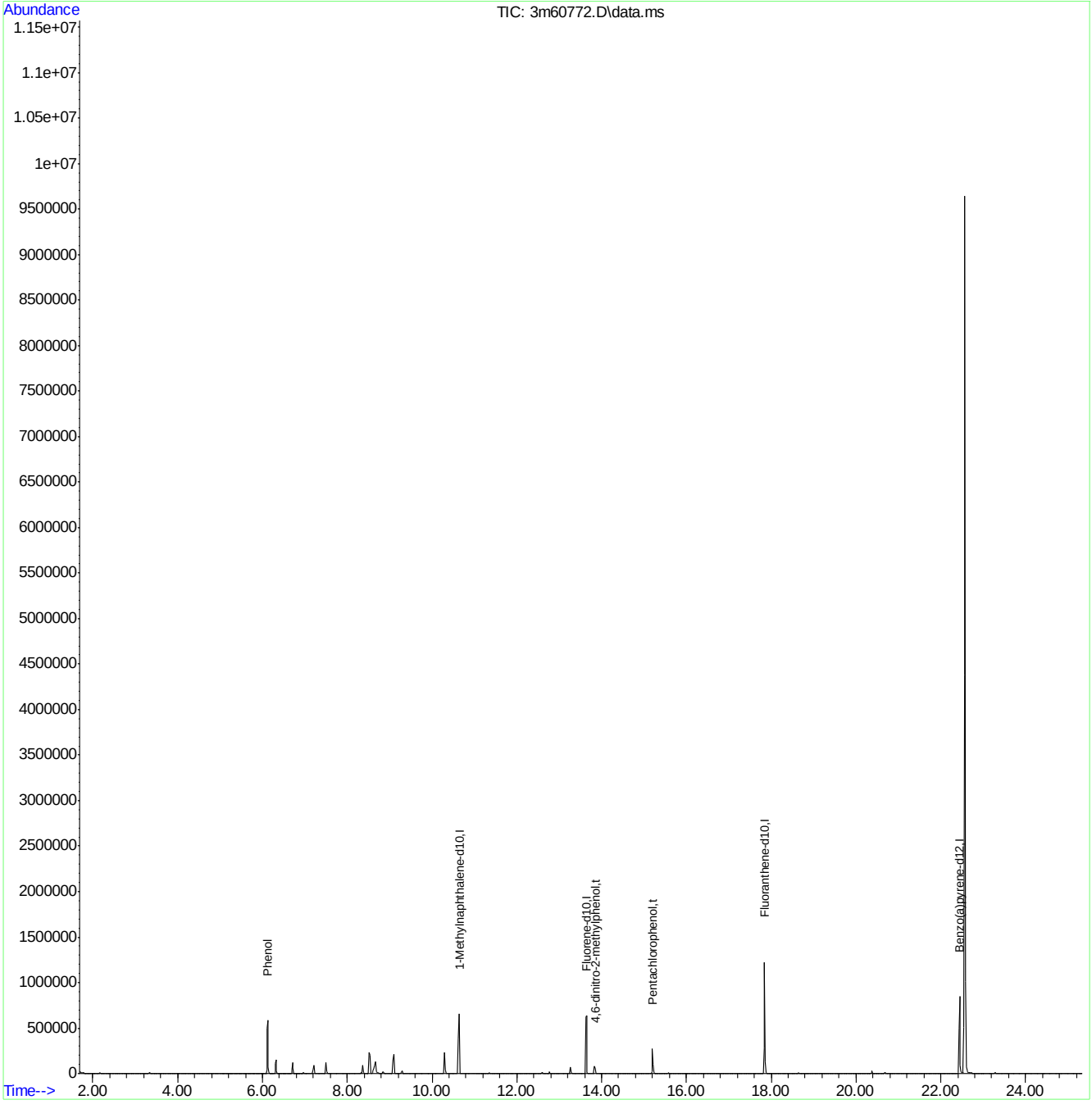
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60772.D
Acq On : 21 Apr 2016 7:27 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 22 08:56:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:56:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60773.D
Acq On : 21 Apr 2016 8:00 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 22 08:58:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.640	150	381667	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	568016	4.00 ppm	0.00
21) Fluoranthene-d10	17.843	212	891736	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	666840	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.320	88	21008	1.07 ppm	93
6) bis(2-Chloroethyl)ether	6.285	93	64147	1.00 ppm	87
8) Nitrobenzene	7.764	77	65386	0.82 ppm	100
9) Naphthalene	9.138	128	240749	1.14 ppm	99
10) Hexachlorobutadiene	9.421	225	41080	1.11 ppm	99
11) 2-Methylnaphthalene	10.517	141	115129	1.04 ppm	98
16) Acenaphthylene	12.293	152	209375	1.06 ppm	99
17) Acenaphthene	12.648	153	152795	1.16 ppm	96
19) Fluorene	13.682	166	170302	1.08 ppm	100
22) Hexachlorobenzene	14.783	284	47590	1.13 ppm	96
24) Phenanthrene	15.602	178	253476	1.16 ppm	95
25) Anthracene	15.711	178	221984	1.15 ppm	98
26) Fluoranthene	17.874	202	279548	1.02 ppm	99
27) Pyrene	18.261	202	275135	1.08 ppm	98
29) Benzo[a]anthracene	20.362	228	271481	1.11 ppm	94
30) Chrysene	20.408	228	239361	1.02 ppm	94
32) Benzo[b]fluoranthene	22.015	252	207742	0.94 ppm	97
33) Benzo[k]fluoranthene	22.061	252	230502	1.12 ppm	98
34) Benzo[a]pyrene	22.463	252	199534	0.97 ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	218688	1.04 ppm	98
36) Dibenz[a,h]anthracene	24.020	278	173448	1.00 ppm	100
37) Benzo[g,h,i]perylene	24.358	276	191304	1.05 ppm	100

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

7.6.11

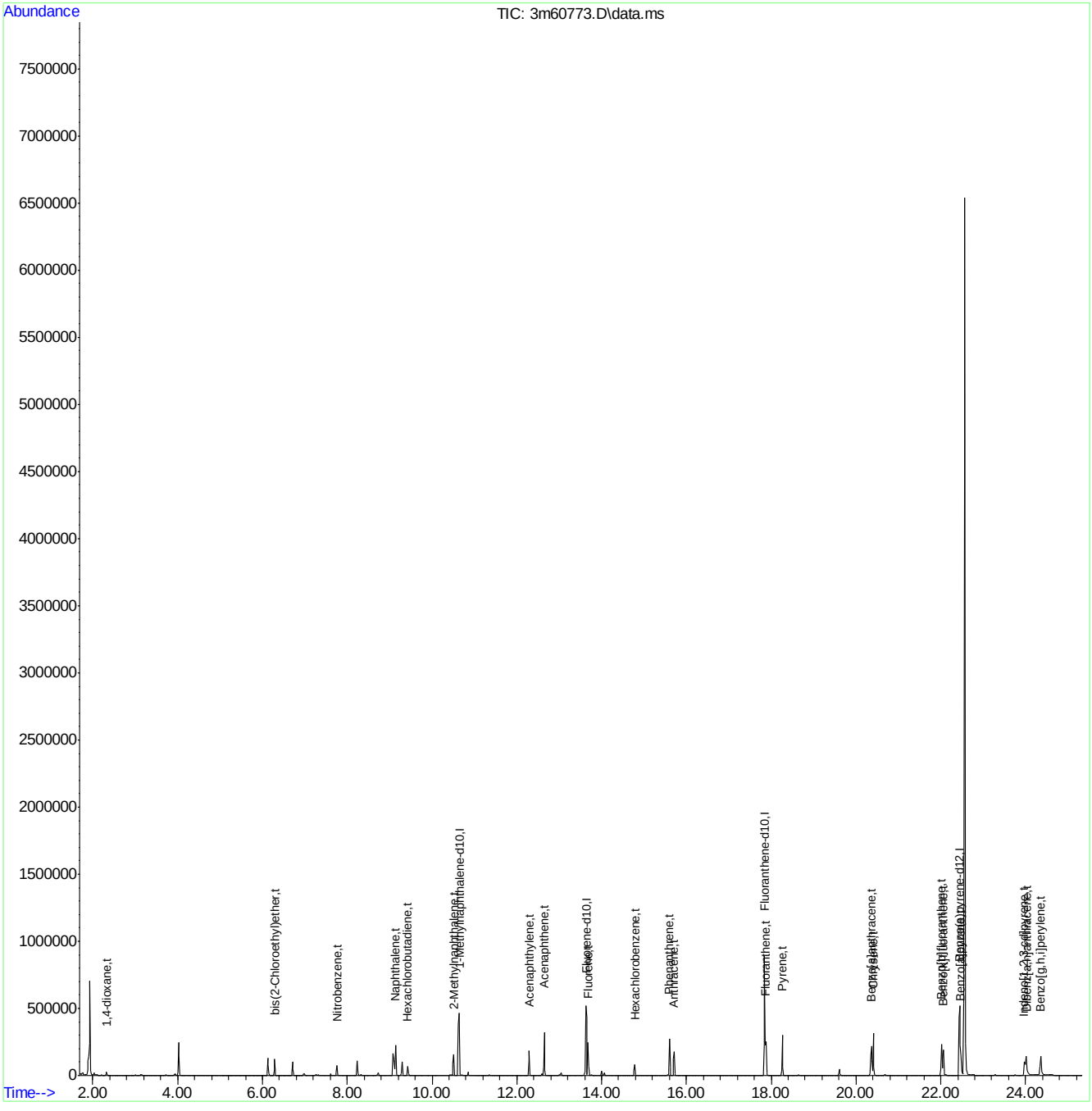
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60773.D
Acq On : 21 Apr 2016 8:00 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 22 08:58:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:58:28 2016 RPT1 Page: 2

SGS ACCUTEST JC19759

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

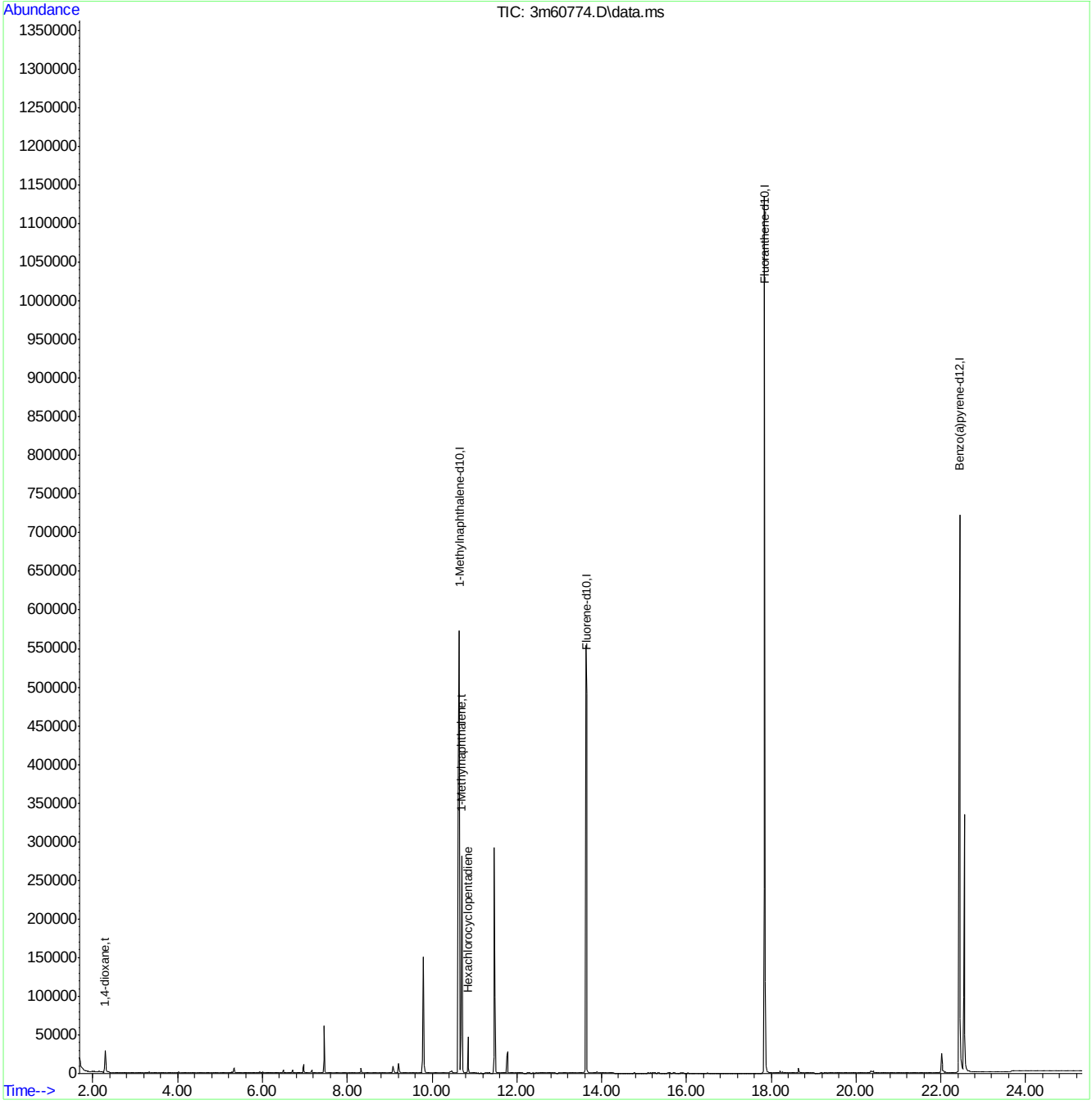
7.6.12

7

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



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61148.D
Acq On : 6 May 2016 10:46 pm
Operator : juliusj
Sample : cc2855-0.5
Misc : op93629a,e3m2875
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 06 23:10:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.406	150	396721	4.00 ppm	-0.02
14) Fluorene-d10	13.411	176	530700	4.00 ppm	-0.02
21) Fluoranthene-d10	17.623	212	939097	4.00 ppm	-0.02
31) Benzo(a)pyrene-d12	22.228	264	759333	4.00 ppm	-0.02
System Monitoring Compounds					
3) 2-Fluorophenol	4.353	112	460858	9.29 ppm	-0.07
Spiked Amount 50.000			Recovery	= 18.58%	
4) Phenol-d5	5.952	99	751465	9.15 ppm	-0.03
Spiked Amount 50.000			Recovery	= 18.30%	
7) Nitrobenzene-d5	7.512	82	621271	8.14 ppm	-0.06
Spiked Amount 50.000			Recovery	= 16.28%	
15) 2-Fluorobiphenyl	11.083	172	1474947	10.11 ppm	-0.04
Spiked Amount 50.000			Recovery	= 20.22%	
20) 2,4,6-Tribromophenol	13.957	330	171460	10.32 ppm	0.00
Spiked Amount 50.000			Recovery	= 20.64%	
28) Terphenyl-d14	18.427	244	1367613	10.04 ppm	0.00
Spiked Amount 50.000			Recovery	= 20.08%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.143	88	8569	0.42 ppm #	1
5) Phenol	5.964	94	195724	2.21 ppm #	79
6) bis(2-Chloroethyl)ether	6.085	93	27103	0.41 ppm	82
8) Nitrobenzene	7.550	77	35911	0.43 ppm	66
9) Naphthalene	8.905	128	91249	0.41 ppm	90
10) Hexachlorobutadiene	9.207	225	18018	0.47 ppm	80
11) 2-Methylnaphthalene	10.283	141	59582	0.52 ppm #	67
12) 1-Methylnaphthalene	10.468	141	59856	0.39 ppm #	69
13) Hexachlorocyclopentadiene	10.632	237	24583	0.81 ppm #	74
16) Acenaphthylene	12.057	152	98370	0.54 ppm	93
17) Acenaphthene	12.412	153	63746	0.52 ppm	88
18) 4,6-dinitro-2-methylph...	13.637	198	35530	2.48 ppm	91
19) Fluorene	13.449	166	72490	0.49 ppm	96
22) Hexachlorobenzene	14.547	284	21364	0.48 ppm	97
23) Pentachlorophenol	14.980	266	64810	2.21 ppm	96
24) Phenanthrene	15.367	178	109703	0.48 ppm	98
25) Anthracene	15.459	178	101244	0.50 ppm	99
26) Fluoranthene	17.654	202	121398	0.42 ppm	88
27) Pyrene	18.041	202	128583	0.48 ppm	92
29) Benzo[a]anthracene	20.126	228	111506	0.43 ppm	91
30) Chrysene	20.188	228	119141	0.48 ppm	93
32) Benzo[b]fluoranthene	21.795	252	133472	0.53 ppm	98
33) Benzo[k]fluoranthene	21.841	252	93671	0.40 ppm	97
34) Benzo[a]pyrene	22.259	252	104051	0.44 ppm	86
35) Indeno[1,2,3-cd]pyrene	23.712	276	122677	0.51 ppm	98
36) Dibenz[a,h]anthracene	23.749	278	87724	0.44 ppm	69
37) Benzo[g,h,i]perylene	24.069	276	102338	0.49 ppm	92

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61148.D
Acq On : 6 May 2016 10:46 pm
Operator : juliusj
Sample : cc2855-0.5
Misc : op93629a,e3m2875
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 06 23:10:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration

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

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

7.6.13

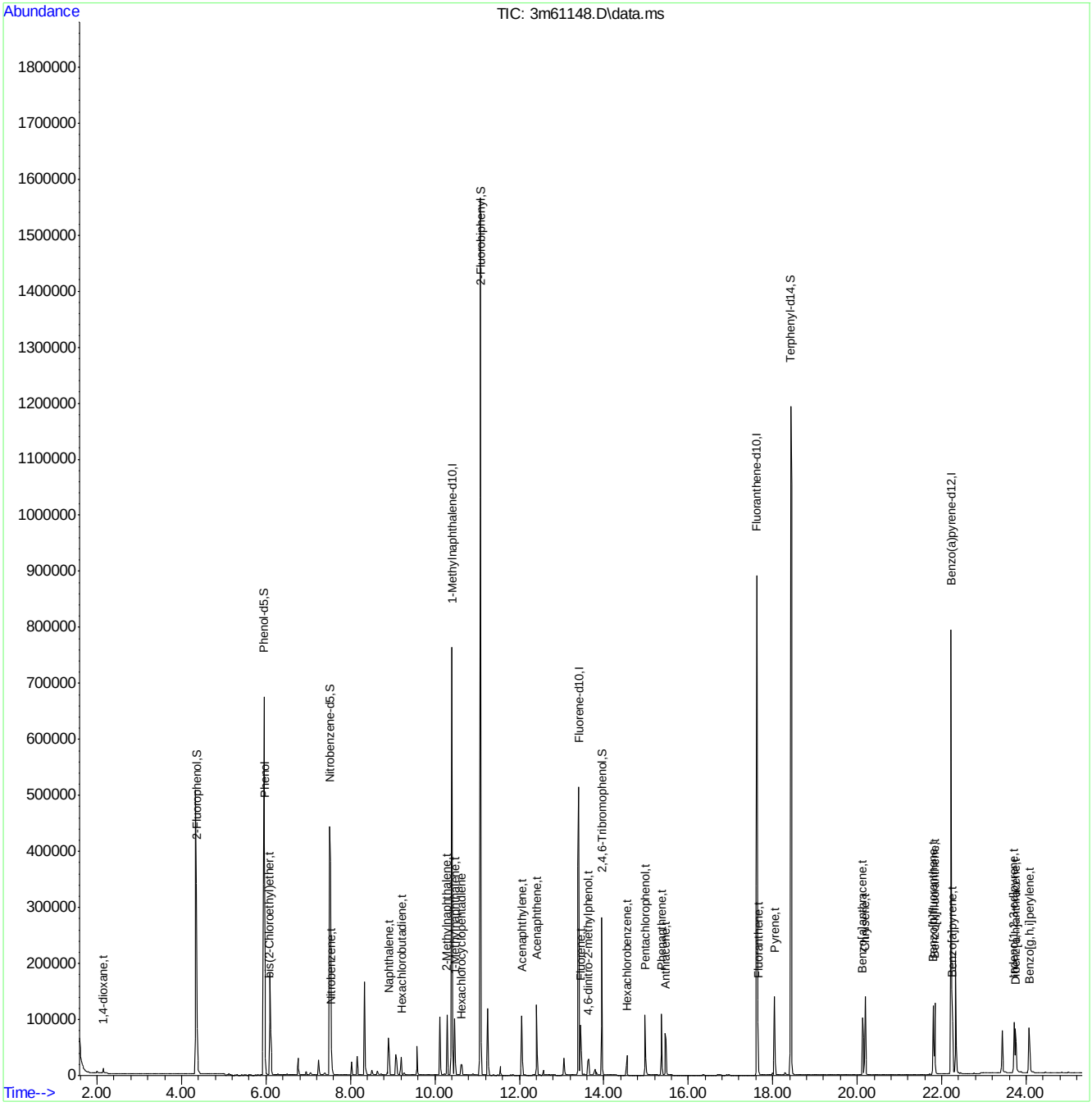
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2875\
Data File : 3m61148.D
Acq On : 6 May 2016 10:46 pm
Operator : juliusj
Sample : cc2855-0.5
Misc : op93629a,e3m2875
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 06 23:10:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 06 17:01:34 2016
Response via : Initial Calibration



M3M2855SIM.M Sat May 07 12:47:40 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2876\
Data File : 3m61160.D
Acq On : 9 May 2016 9:06 am
Operator : linseyk
Sample : cc2855-1
Misc : op93693a,e3m2876
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 09:30:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 09 09:04:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.385	150	268276	4.00	ppm	-0.04
14) Fluorene-d10	13.392	176	447446	4.00	ppm	-0.04
21) Fluoranthene-d10	17.608	212	743778	4.00	ppm	-0.03
31) Benzo(a)pyrene-d12	22.212	264	606791	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.322	112	712227	21.22	ppm	-0.10
Spiked Amount 50.000			Recovery = 42.44%			
4) Phenol-d5	5.940	99	1152052	20.74	ppm	-0.04
Spiked Amount 50.000			Recovery = 41.48%			
7) Nitrobenzene-d5	7.512	82	997247	19.31	ppm	-0.06
Spiked Amount 50.000			Recovery = 38.62%			
15) 2-Fluorobiphenyl	11.068	172	2321078	18.88	ppm	-0.06
Spiked Amount 50.000			Recovery = 37.76%			
20) 2,4,6-Tribromophenol	13.938	330	284244	20.30	ppm	-0.01
Spiked Amount 50.000			Recovery = 40.60%			
28) Terphenyl-d14	18.427	244	2210788	20.49	ppm	0.00
Spiked Amount 50.000			Recovery = 40.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.128	88	14077	1.02	ppm	93
5) Phenol	5.952	94	293101	4.90	ppm #	91
6) bis(2-Chloroethyl)ether	6.072	93	42412	0.94	ppm #	66
8) Nitrobenzene	7.531	77	51494	0.92	ppm #	53
9) Naphthalene	8.905	128	144571	0.97	ppm	100
10) Hexachlorobutadiene	9.188	225	29285	1.13	ppm	94
11) 2-Methylnaphthalene	10.283	141	78406	1.01	ppm	98
12) 1-Methylnaphthalene	10.467	141	85561	0.82	ppm	97
13) Hexachlorocyclopentadiene	10.611	237	51861	2.51	ppm	91
16) Acenaphthylene	12.041	152	153768	0.99	ppm	91
17) Acenaphthene	12.397	153	97984	0.95	ppm	83
18) 4,6-dinitro-2-methylph...	13.618	198	87535	5.83	ppm	54
19) Fluorene	13.449	166	117075	0.94	ppm	78
22) Hexachlorobenzene	14.532	284	34047	0.97	ppm	92
23) Pentachlorophenol	14.965	266	108864	4.50	ppm	91
24) Phenanthrene	15.351	178	173268	0.95	ppm	95
25) Anthracene	15.459	178	161412	1.00	ppm	92
26) Fluoranthene	17.639	202	195738	0.85	ppm	93
27) Pyrene	18.025	202	192699	0.91	ppm	87
29) Benzo[a]anthracene	20.126	228	173594	0.85	ppm	98
30) Chrysene	20.173	228	175182	0.90	ppm	99
32) Benzo[b]fluoranthene	21.795	252	187406	0.93	ppm	87
33) Benzo[k]fluoranthene	21.826	252	165216	0.88	ppm	95
34) Benzo[a]pyrene	22.243	252	161722	0.86	ppm	92
35) Indeno[1,2,3-cd]pyrene	23.711	276	186931	0.98	ppm	94
36) Dibenz[a,h]anthracene	23.749	278	157134	1.00	ppm	73
37) Benzo[g,h,i]perylene	24.069	276	160848	0.97	ppm	94

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2876\
Data File : 3m61160.D
Acq On : 9 May 2016 9:06 am
Operator : linseyk
Sample : cc2855-1
Misc : op93693a,e3m2876
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 09:30:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 09 09:04:11 2016
Response via : Initial Calibration

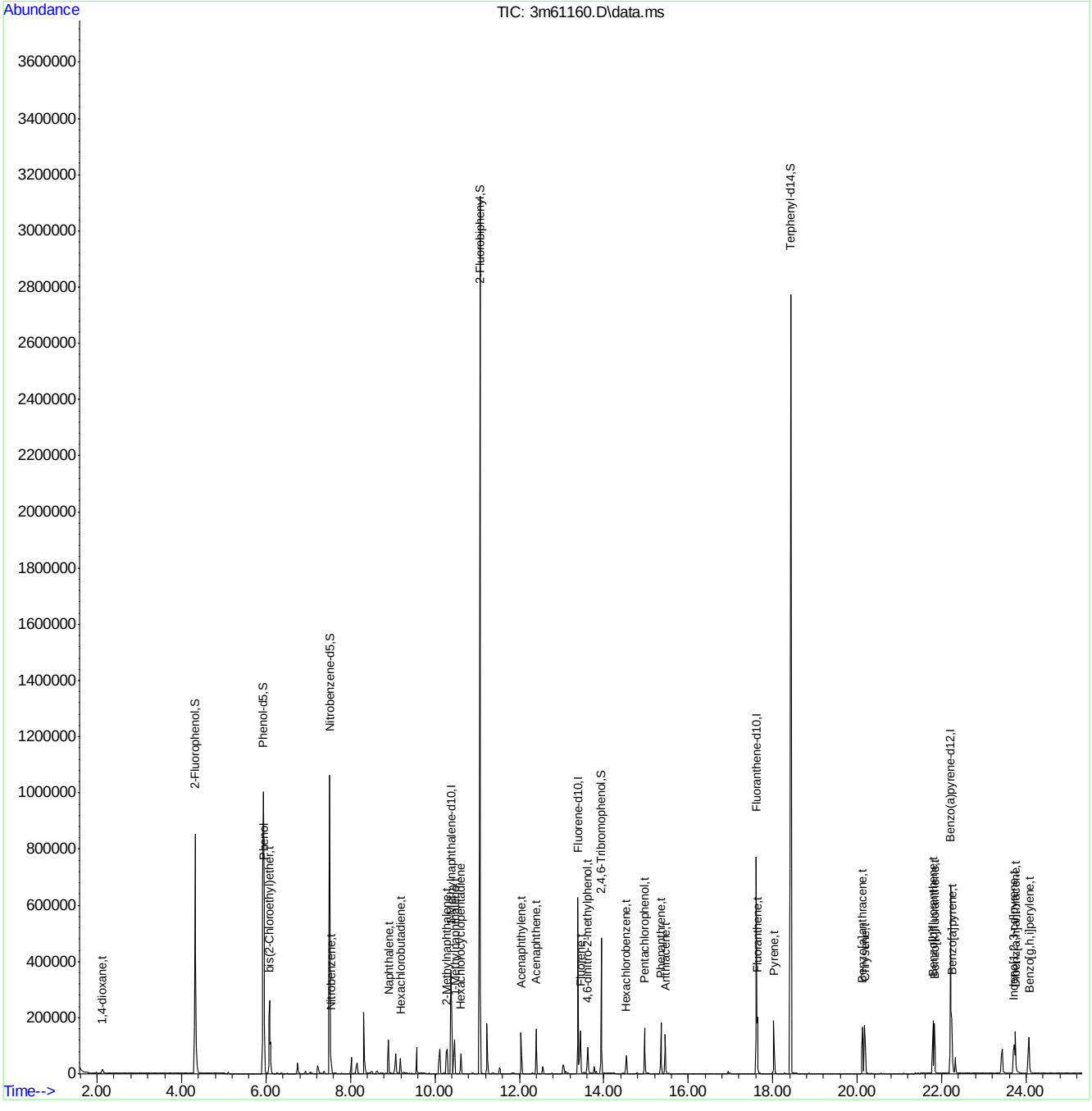
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2876\
Data File : 3m61160.D
Acq On : 9 May 2016 9:06 am
Operator : linseyk
Sample : cc2855-1
Misc : op93693a,e3m2876
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 09:30:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 09 09:04:11 2016
Response via : Initial Calibration



M3M2855SIM.M Mon May 09 12:00:15 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24812.D
Acq On : 5 Apr 2016 4:46 pm
Operator : sarad
Sample : ic1155-2
Misc : op92208,e6p1155
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 05 18:31:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 15:56:31 2016
QLast Update : Tue Apr 05 15:56:31 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	268196	40.00	ppm	-0.02
24) Naphthalene-d8	5.759	136	1061032	40.00	ppm	-0.02
47) Acenaphthene-d10	7.818	164	613928	40.00	ppm	-0.02
69) Phenanthrene-d10	9.984	188	1061677	40.00	ppm	-0.02
83) Chrysene-d12	14.145	240	1131592	40.00	ppm	-0.03
92) Perylene-d12	16.253	264	1042901	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4a	4.673	152	268196	40.00	ppm	-0.02
104) Acenaphthene-d10a	7.818	164	613928	40.00	ppm	-0.02
106) Phenanthrene-d10a	9.984	188	1061677	40.00	ppm	-0.02
110) Chrysene-d12a	14.145	240	1131592	40.00	ppm	-0.03
112) Naphthalene-d8a	5.759	136	1061032	40.00	ppm	-0.02
114) Chrysene-d12b	14.145	240	1131592	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.694	112	19128	1.97	ppm	-0.01
Spiked Amount 50.000			Recovery	=	3.94%	
8) Phenol-d5	4.406	99	24183	1.85	ppm	-0.01
Spiked Amount 50.000			Recovery	=	3.70%	
25) Nitrobenzene-d5	5.112	82	23763	2.03	ppm	-0.02
Spiked Amount 50.000			Recovery	=	4.06%	
51) 2-Fluorobiphenyl	6.946	172	42313	2.07	ppm	-0.02
Spiked Amount 50.000			Recovery	=	4.14%	
73) 2,4,6-Tribromophenol	8.936	330	4784	2.06	ppm	-0.02
Spiked Amount 50.000			Recovery	=	4.12%	
85) Terphenyl-d14	12.530	244	41970	1.94	ppm	-0.03
Spiked Amount 50.000			Recovery	=	3.88%	
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	2.245	88	9621	1.97	ppm	98
3) Pyridine	2.582	79	23721	1.92	ppm	94
4) N-Nitrosodimethylamine	2.534	74	15734	2.11	ppm	85
6) Indene	4.871	116	34641	2.01	ppm	97
7) Cumene	4.079	105	54412	2.04	ppm	97
9) Phenol	4.411	94	30284	2.01	ppm	95
10) Aniline	4.427	93	35503	2.23	ppm	97
11) bis(2-Chloroethyl)ether	4.470	93	21465	2.02	ppm	98
12) 2-Chlorophenol	4.518	128	21808	2.09	ppm	94
13) Decane	4.555	43	26053	2.06	ppm	95
14) 1,3-Dichlorobenzene	4.630	146	22681	2.04	ppm	94
15) 1,4-Dichlorobenzene	4.684	146	23446	2.10	ppm	97
16) Benzyl alcohol	4.780	108	13785	1.97	ppm	83
17) 1,2-Dichlorobenzene	4.807	146	20742	2.01	ppm	95
18) Acetophenone	4.983	105	30185	2.00	ppm	98
19) 2-Methylphenol	4.866	108	18840	1.99	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.882	121	7212	1.98	ppm #	76

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24812.D
Acq On : 5 Apr 2016 4:46 pm
Operator : sarad
Sample : ic1155-2
Misc : op92208,e6p1155
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 05 18:31:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 15:56:31 2016
QLast Update : Tue Apr 05 15:56:31 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.989	108	20281	2.04	ppm	93
22) n-Nitroso-di-n-propyla...	4.983	70	17827	2.05	ppm	91
23) Hexachloroethane	5.080	201	7850	2.09	ppm	90
26) Nitrobenzene	5.128	77	24762	2.00	ppm	98
27) Quinoline	6.112	129	37490	1.95	ppm	96
28) Isophorone	5.331	82	43258	2.03	ppm	98
29) 2-Nitrophenol	5.400	139	8858	1.91	ppm	94
30) 2,4-Dimethylphenol	5.438	107	17529	1.92	ppm	95
31) Benzoic acid	5.486	105	10438	2.26	ppm	95
32) bis(2-Chloroethoxy)met...	5.518	93	25174	2.03	ppm	98
33) 2,4-Dichlorophenol	5.625	162	16001	2.06	ppm	95
34) 2,6-Dichlorophenol	5.839	162	15750	2.05	ppm	97
35) 1,3,5-Trichlorobenzene	5.411	180	20194	2.10	ppm	96
36) 1,2,4-Trichlorobenzene	5.705	180	18268	2.02	ppm	96
37) 1,2,3-Trichlorobenzene	5.925	180	17855	2.05	ppm	96
38) Naphthalene	5.780	128	61207	2.09	ppm	96
39) 4-Chloroaniline	5.828	127	24354	1.98	ppm	99
40) 2,3-Dichloroaniline	6.839	161	19101	1.96	ppm	92
41) Caprolactam	6.155	55	9294	1.89	ppm	91
42) Hexachlorobutadiene	5.909	225	10768	2.15	ppm	98
43) 4-Chloro-3-methylphenol	6.342	107	17449	1.90	ppm	91
44) 2-Methylnaphthalene	6.508	141	31993	2.00	ppm	99
45) 1-Methylnaphthalene	6.620	141	35151	2.14	ppm	92
46) Dimethylnaphthalene	7.267	156	36926	2.03	ppm	98
48) Hexachlorocyclopentadiene	6.706	237	18274	4.53	ppm	99
49) 2,4,6-Trichlorophenol	6.845	196	10945	2.04	ppm	92
50) 2,4,5-Trichlorophenol	6.887	196	10585	1.86	ppm	97
52) 2-Chloronaphthalene	7.085	162	37176	2.02	ppm	98
53) Biphenyl	7.069	154	49893	2.01	ppm	98
54) 2-Nitroaniline	7.219	65	12505	2.04	ppm	92
55) Dimethylphthalate	7.476	163	42810	2.07	ppm	96
56) Acenaphthylene	7.620	152	54601	1.98	ppm	98
57) 2,6-Dinitrotoluene	7.540	165	7290	1.96	ppm	87
58) 3-Nitroaniline	7.765	138	9490	2.02	ppm	83
59) Acenaphthene	7.861	153	37787	2.02	ppm	94
60) 2,4-Dinitrophenol	7.909	184	4198	5.04	ppm	78
61) 4-Nitrophenol	8.027	109	5185	1.88	ppm	89
62) Dibenzofuran	8.102	168	52230	2.11	ppm	98
63) 2,4-Dinitrotoluene	8.091	165	9857	2.01	ppm	87
64) 2,3,4,6-Tetrachlorophenol	8.283	232	9634	2.12	ppm	93
65) Diethylphthalate	8.471	149	39873	1.98	ppm	98
66) Fluorene	8.588	166	42091	2.01	ppm	99
67) 4-Chlorophenyl-phenyle...	8.610	204	22118	2.07	ppm	95
68) 4-Nitroaniline	8.620	138	9101	2.01	ppm	95
70) 4,6-Dinitro-2-methylph...	8.674	198	3399	2.38	ppm	95
71) n-Nitrosodiphenylamine	8.781	169	29639	1.97	ppm	99
72) 1,2-Diphenylhydrazine	8.840	77	47716	1.99	ppm	95
74) 4-Bromophenyl-phenylether	9.332	248	11968	2.06	ppm	90
75) Hexachlorobenzene	9.407	284	11787	1.98	ppm	96
76) Pentachlorophenol	9.711	266	14356	4.64	ppm	95

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24812.D
Acq On : 5 Apr 2016 4:46 pm
Operator : sarad
Sample : ic1155-2
Misc : op92208,e6p1155
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 05 18:31:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 15:56:31 2016
QLast Update : Tue Apr 05 15:56:31 2016
Response via : Initial Calibration

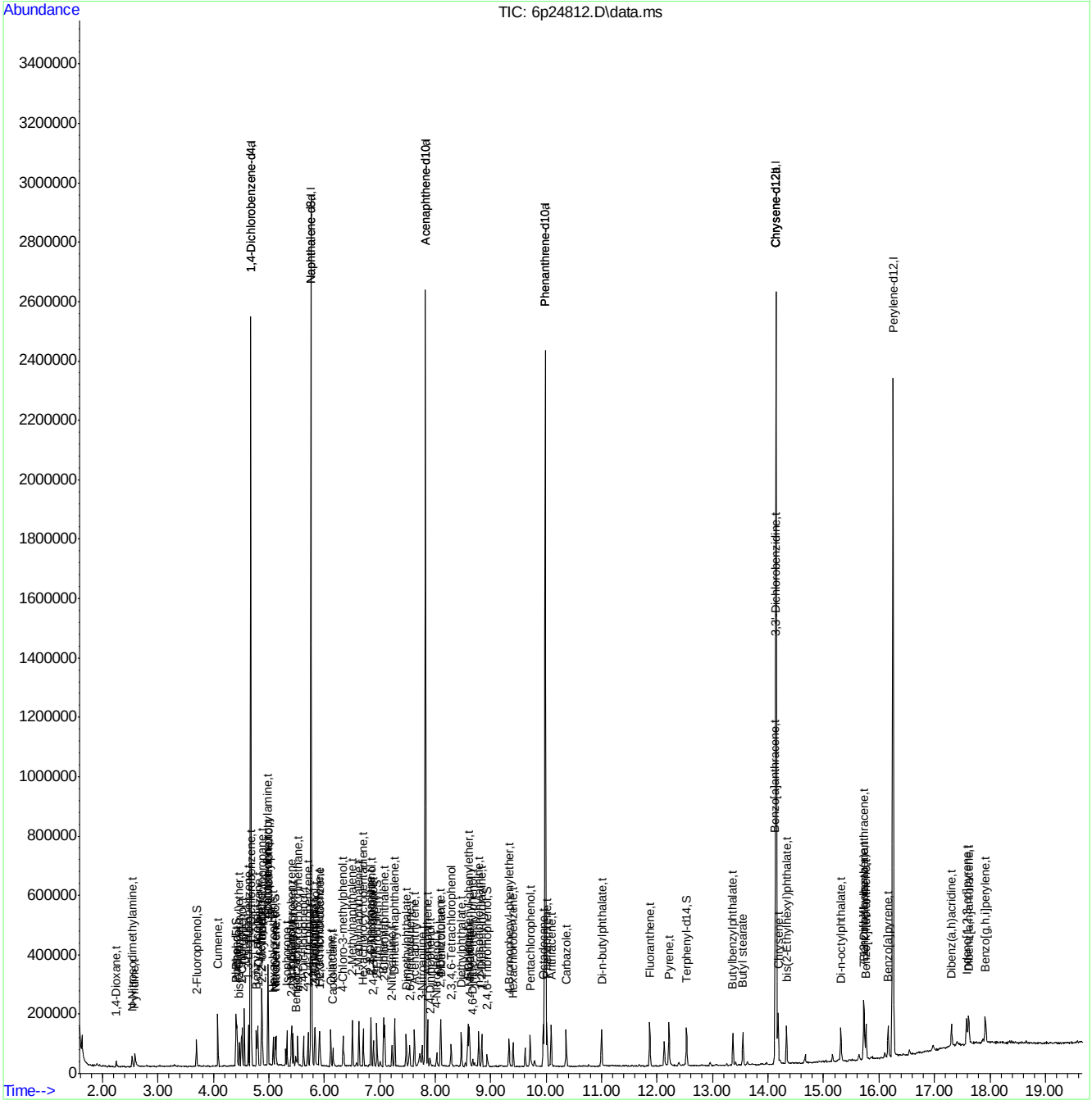
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.016	178	65916	2.07 ppm	99
78) Anthracene	10.091	178	63372	2.02 ppm	98
79) Carbazole	10.359	167	55208	2.00 ppm	100
80) Di-n-butylphthalate	11.000	149	63073	1.93 ppm	98
81) Fluoranthene	11.867	202	68351	2.01 ppm	97
82) Octadecane	9.947	57	28904	1.97 ppm	98
84) Pyrene	12.215	202	73650	2.02 ppm	97
86) Butylbenzylphthalate	13.365	149	27469	1.97 ppm	95
87) Butyl stearate	13.546	56	18239	1.95 ppm	96
88) Benzo[a]anthracene	14.129	228	66599	2.09 ppm	99
89) 3,3'-Dichlorobenzidine	14.135	252	19744	2.00 ppm	93
90) Chrysene	14.183	228	65200	2.01 ppm	98
91) bis(2-Ethylhexyl)phtha...	14.333	149	35855	1.91 ppm	99
93) Di-n-octylphthalate	15.311	149	59985	1.91 ppm	98
94) Benzo[b]fluoranthene	15.723	252	59187	1.96 ppm	97
95) Benzo[k]fluoranthene	15.766	252	60152	1.96 ppm	97
96) Benzo[a]pyrene	16.167	252	53379	2.01 ppm	99
97) Indeno[1,2,3-cd]pyrene	17.579	276	47168	2.02 ppm	96
98) Dibenz(a,h)acridine	17.307	279	45011	2.09 ppm	100
99) Dibenz[a,h]anthracene	17.617	278	52440	2.00 ppm	97
100) 7,12-Dimethylbenz(a)an...	15.734	256	21933	1.85 ppm	94
101) Benzo[g,h,i]perylene	17.922	276	55557	2.10 ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24812.D
Acq On : 5 Apr 2016 4:46 pm
Operator : sarad
Sample : ic1155-2
Misc : op92208,e6p1155
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 05 18:31:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 15:56:31 2016
QLast Update : Tue Apr 05 15:56:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 16:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24813.D
Acq On : 5 Apr 2016 5:14 pm
Operator : sarad
Sample : ic1155-1
Misc : op92208,e6p1155
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 05 18:33:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:32:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	269126	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1074672	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	617655	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	1069720	40.00	ppm	0.00
83) Chrysene-d12	14.145	240	1130503	40.00	ppm	0.00
92) Perylene-d12	16.253	264	1033899	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	269126	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	617655	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	1069720	40.00	ppm	0.00
110) Chrysene-d12a	14.145	240	1130503	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1074672	40.00	ppm	0.00
114) Chrysene-d12b	14.145	240	1130503	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.694	112	9929	1.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.06%	
8) Phenol-d5	4.406	99	13371	1.10	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.20%	
25) Nitrobenzene-d5	5.112	82	12027	1.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.00%	
51) 2-Fluorobiphenyl	6.946	172	20185	0.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.90%	
73) 2,4,6-Tribromophenol	8.936	330	2218	0.92	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.84%	
85) Terphenyl-d14	12.530	244	19955	0.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.90%	
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	2.245	88	5249	1.09	ppm	90
3) Pyridine	2.587	79	12865	1.08	ppm	99
4) N-Nitrosodimethylamine	2.534	74	8039	1.02	ppm	99
6) Indene	4.871	116	18157	1.04	ppm	99
7) Cumene	4.079	105	27044	0.99	ppm	98
9) Phenol	4.411	94	14562	0.96	ppm	98
10) Aniline	4.427	93	16852	0.95	ppm	95
11) bis(2-Chloroethyl)ether	4.470	93	10826	1.01	ppm	98
12) 2-Chlorophenol	4.518	128	10086	0.92	ppm	93
13) Decane	4.555	43	12557	0.96	ppm	93
14) 1,3-Dichlorobenzene	4.630	146	11555	1.02	ppm	93
15) 1,4-Dichlorobenzene	4.684	146	11339	0.96	ppm	93
16) Benzyl alcohol	4.780	108	6620	0.96	ppm	91
17) 1,2-Dichlorobenzene	4.807	146	10282	0.99	ppm	94
18) Acetophenone	4.983	105	15953	1.05	ppm	98
19) 2-Methylphenol	4.866	108	8903	0.94	ppm	85
20) 2,2'-oxybis(1-Chloropr...	4.882	121	3729	1.03	ppm #	65

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24813.D
Acq On : 5 Apr 2016 5:14 pm
Operator : sarad
Sample : ic1155-1
Misc : op92208,e6p1155
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 05 18:33:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:32:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	4.989	108	9624	0.95	ppm		94
22) n-Nitroso-di-n-propyla...	4.989	70	9428	1.05	ppm		90
23) Hexachloroethane	5.080	201	3989	1.01	ppm		94
26) Nitrobenzene	5.128	77	12698	1.01	ppm		93
27) Quinoline	6.117	129	18983	1.00	ppm		96
28) Isophorone	5.331	82	20416	0.93	ppm		96
29) 2-Nitrophenol	5.400	139	4670	1.04	ppm		97
30) 2,4-Dimethylphenol	5.438	107	7905	0.89	ppm		84
31) Benzoic acid	5.481	105	4109	0.78	ppm		93
32) bis(2-Chloroethoxy)met...	5.518	93	12990	1.02	ppm		93
33) 2,4-Dichlorophenol	5.625	162	7525	0.93	ppm		96
34) 2,6-Dichlorophenol	5.839	162	7876	0.99	ppm		91
35) 1,3,5-Trichlorobenzene	5.411	180	9420	0.92	ppm		97
36) 1,2,4-Trichlorobenzene	5.705	180	9532	1.03	ppm		88
37) 1,2,3-Trichlorobenzene	5.925	180	8857	0.98	ppm		95
38) Naphthalene	5.775	128	29885	0.96	ppm		95
39) 4-Chloroaniline	5.828	127	11662	0.95	ppm		98
40) 2,3-Dichloroaniline	6.839	161	9423	0.97	ppm		97
41) Caprolactam	6.155	55	4643	0.99	ppm		94
42) Hexachlorobutadiene	5.909	225	5151	0.94	ppm		92
43) 4-Chloro-3-methylphenol	6.336	107	9281	1.05	ppm		81
44) 2-Methylnaphthalene	6.508	141	15851	0.98	ppm		96
45) 1-Methylnaphthalene	6.620	141	15805	0.89	ppm		89
46) Dimethylnaphthalene	7.267	156	17925	0.96	ppm		96
48) Hexachlorocyclopentadiene	6.700	237	8580	1.87	ppm		92
49) 2,4,6-Trichlorophenol	6.845	196	4816	0.87	ppm		94
50) 2,4,5-Trichlorophenol	6.887	196	5425	1.02	ppm		93
52) 2-Chloronaphthalene	7.085	162	17929	0.96	ppm		97
53) Biphenyl	7.069	154	24851	0.99	ppm		98
54) 2-Nitroaniline	7.219	65	5976	0.95	ppm		96
55) Dimethylphthalate	7.476	163	20290	0.94	ppm		96
56) Acenaphthylene	7.620	152	27090	0.99	ppm		92
57) 2,6-Dinitrotoluene	7.540	165	3234	0.88	ppm		95
58) 3-Nitroaniline	7.759	138	4006	0.84	ppm		77
59) Acenaphthene	7.861	153	18797	0.99	ppm		99
60) 2,4-Dinitrophenol	7.909	184	1440	1.36	ppm	#	68
61) 4-Nitrophenol	8.027	109	2498	0.96	ppm	#	79
62) Dibenzofuran	8.102	168	25998	0.99	ppm		99
63) 2,4-Dinitrotoluene	8.091	165	3988	0.80	ppm		84
64) 2,3,4,6-Tetrachlorophenol	8.289	232	4409	0.91	ppm		91
65) Diethylphthalate	8.471	149	18437	0.92	ppm		97
66) Fluorene	8.588	166	20072	0.95	ppm		91
67) 4-Chlorophenyl-phenyle...	8.610	204	11378	1.02	ppm		94
68) 4-Nitroaniline	8.620	138	4039	0.88	ppm		87
70) 4,6-Dinitro-2-methylph...	8.674	198	1445	0.84	ppm		83
71) n-Nitrosodiphenylamine	8.781	169	14070	0.94	ppm		92
72) 1,2-Diphenylhydrazine	8.834	77	22446	0.93	ppm		91
74) 4-Bromophenyl-phenylether	9.332	248	5417	0.90	ppm		86
75) Hexachlorobenzene	9.407	284	5786	0.97	ppm		90
76) Pentachlorophenol	9.717	266	5712	1.58	ppm		96

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24813.D
Acq On : 5 Apr 2016 5:14 pm
Operator : sarad
Sample : ic1155-1
Misc : op92208,e6p1155
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 05 18:33:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:32:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.011	178	31844	0.96 ppm	95
78) Anthracene	10.091	178	29273	0.92 ppm	99
79) Carbazole	10.359	167	25837	0.93 ppm	98
80) Di-n-butylphthalate	11.000	149	27971	0.88 ppm	95
81) Fluoranthene	11.867	202	31923	0.93 ppm	95
82) Octadecane	9.947	57	13760	0.94 ppm	95
84) Pyrene	12.215	202	32003	0.87 ppm	90
86) Butylbenzylphthalate	13.365	149	11556	0.84 ppm	96
87) Butyl stearate	13.541	56	7392	0.81 ppm	90
88) Benzo[a]anthracene	14.129	228	33431	1.00 ppm	99
89) 3,3'-Dichlorobenzidine	14.140	252	9280	0.94 ppm	81
90) Chrysene	14.183	228	31966	0.98 ppm	96
91) bis(2-Ethylhexyl)phtha...	14.333	149	15271	0.85 ppm	96
93) Di-n-octylphthalate	15.317	149	25059	0.84 ppm	97
94) Benzo[b]fluoranthene	15.729	252	28628	0.98 ppm	97
95) Benzo[k]fluoranthene	15.766	252	26127	0.88 ppm	94
96) Benzo[a]pyrene	16.167	252	23211	0.88 ppm	91
97) Indeno[1,2,3-cd]pyrene	17.579	276	19596m	0.84 ppm	
98) Dibenz(a,h)acridine	17.307	279	19892	0.89 ppm	91
99) Dibenz[a,h]anthracene	17.617	278	25124	0.97 ppm	96
100) 7,12-Dimethylbenz(a)an...	15.729	256	9646	0.89 ppm	91
101) Benzo[g,h,i]perylene	17.922	276	26766	0.97 ppm	94

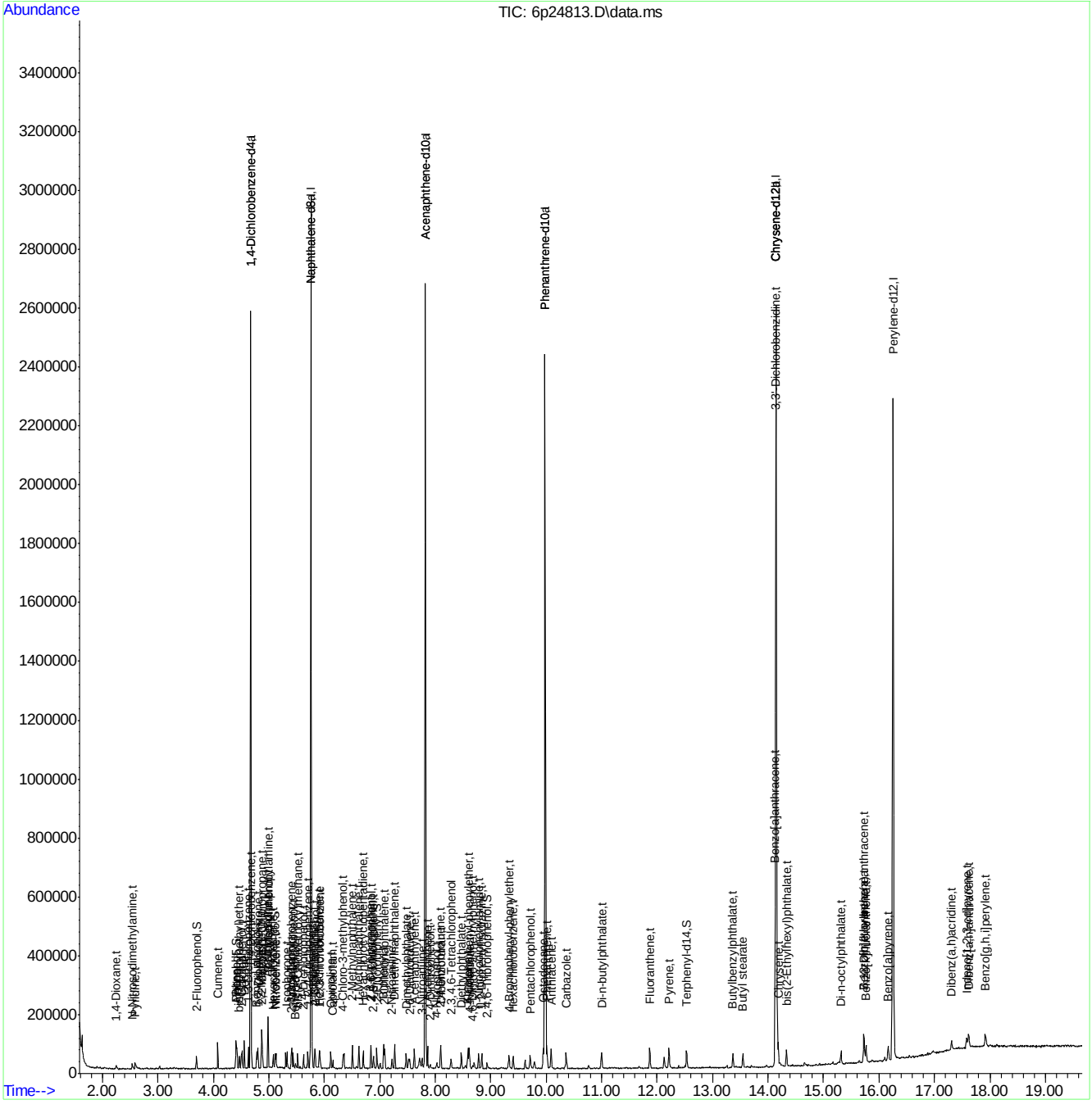
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24813.D
Acq On : 5 Apr 2016 5:14 pm
Operator : sarad
Sample : ic1155-1
Misc : op92208,e6p1155
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 05 18:33:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:32:08 2016
Response via : Initial Calibration



M6P1155.M Tue Apr 05 19:54:30 2016 ACLIMS Page: 4

SGS ACCUTEST JC19759

Manual Integration Approval Summary

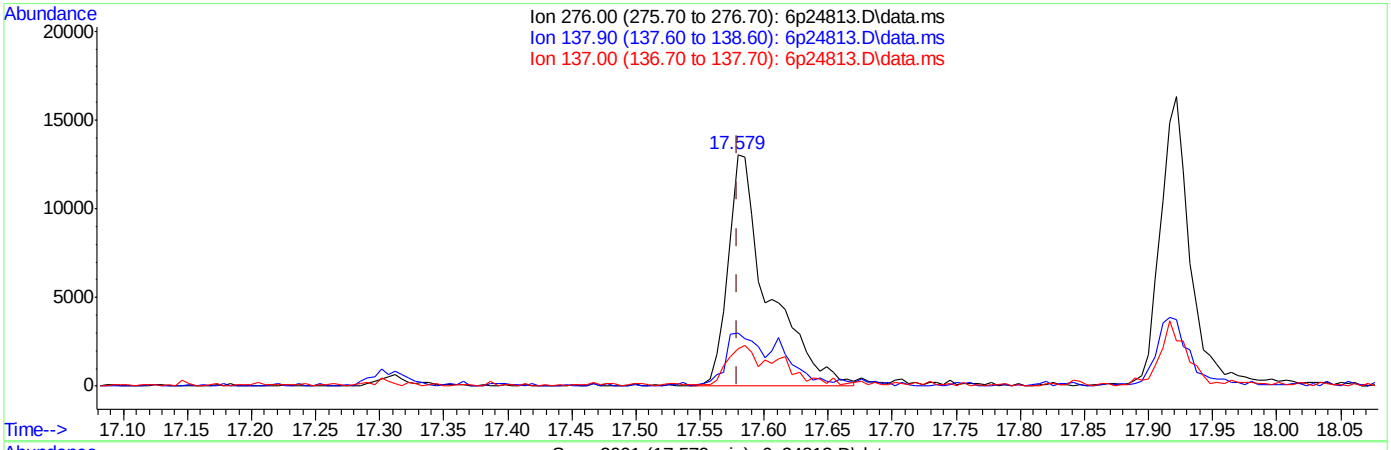
Sample Number:	E6P1155-IC1155	**Method:**	SW846 8270D
Lab FileID:	6P24813.D	**Analyst approved:**	04/06/16 09:50 Ashley Dye
Injection Time:	04/05/16 17:14	**Supervisor approved:**	04/06/16 16:06 Kristi Schollenberger

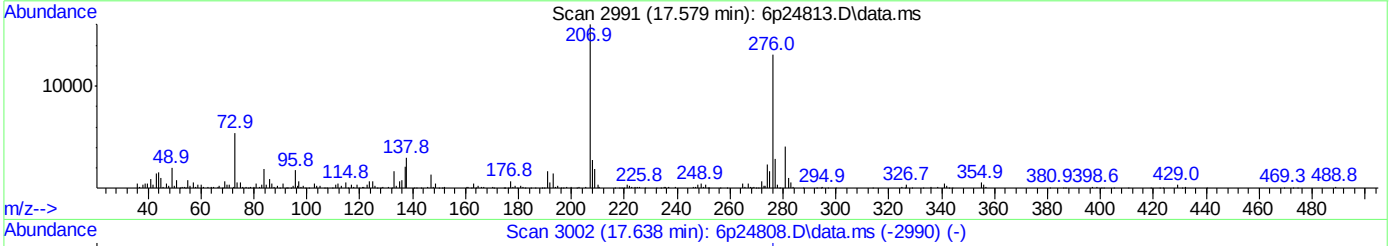
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.58	Overlapping peak

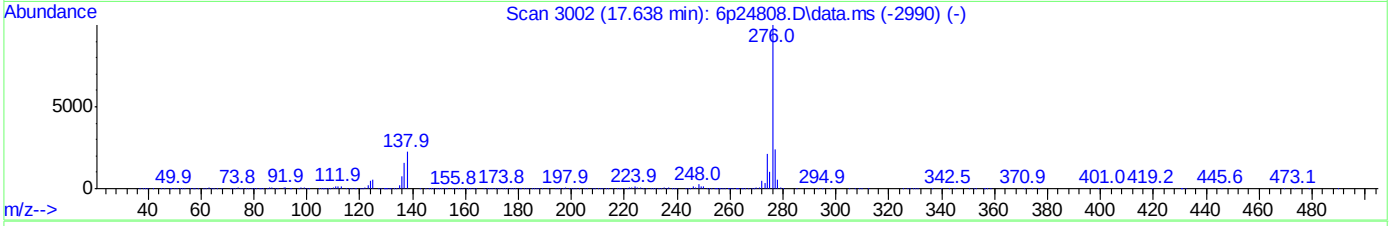
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24813.D
Acq On : 5 Apr 2016 5:14 pm
Operator : sarad
Sample : ic1155-1
Misc : op92208,e6p1155
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 05 18:32:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:32:08 2016
Response via : Initial Calibration







TIC: 6p24813.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.579min (+0.000) 1.21ppm

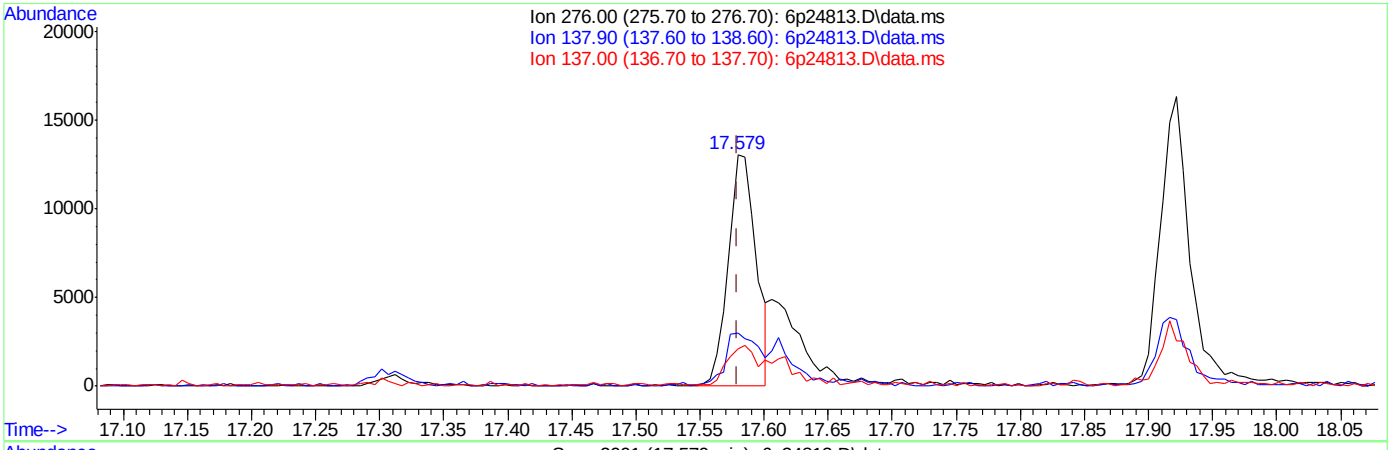
response 28278

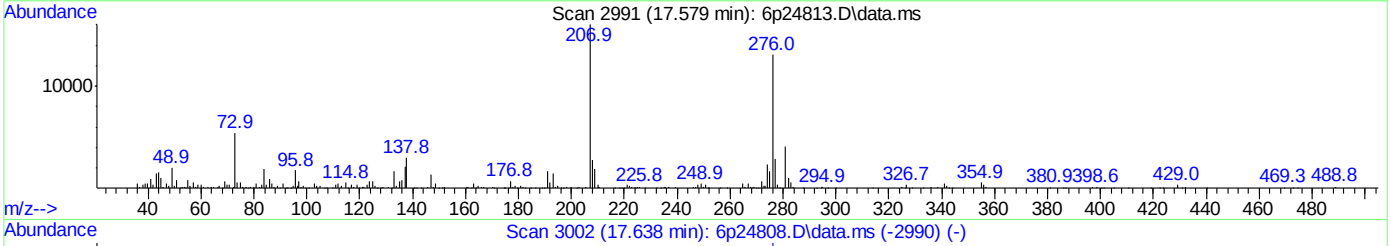
Ion	Exp%	Act%
276.00	100	100
137.90	20.00	22.18
137.00	16.80	14.46
0.00	0.00	0.00

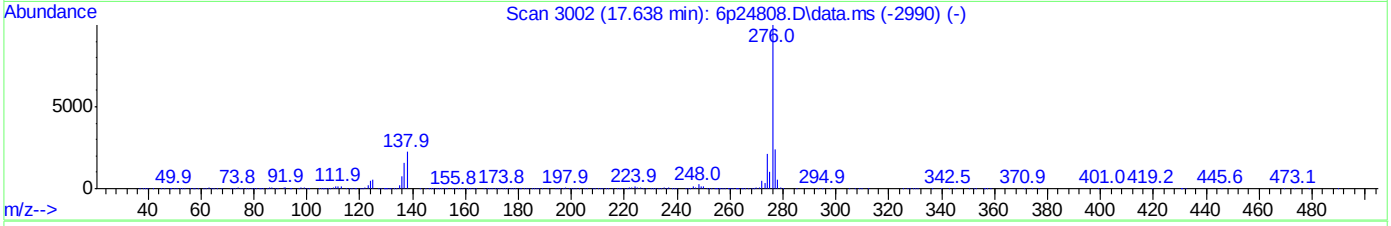
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24813.D
Acq On : 5 Apr 2016 5:14 pm
Operator : sarad
Sample : ic1155-1
Misc : op92208,e6p1155
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 05 18:32:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:32:08 2016
Response via : Initial Calibration







TIC: 6p24813.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.579min (+0.000) 0.84ppm m

response 19596

Ion	Exp%	Act%
276.00	100	100
137.90	20.00	22.71
137.00	16.80	16.08
0.00	0.00	0.00

SGS ACCUTEST JC19759

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 16:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24814.D
Acq On : 5 Apr 2016 5:41 pm
Operator : sarad
Sample : ic1155-100
Misc : op92208,e6p1155
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 19:54:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:33:31 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	250424	40.00	ppm	0.00
24) Naphthalene-d8	5.764	136	1023604	40.00	ppm	0.00
47) Acenaphthene-d10	7.823	164	602552	40.00	ppm	0.00
69) Phenanthrene-d10	9.990	188	1035631	40.00	ppm	0.01
83) Chrysene-d12	14.162	240	1049500	40.00	ppm	0.02
92) Perylene-d12	16.264	264	1010541	40.00	ppm	0.01
102) 1,4-Dichlorobenzene-d4a	4.673	152	250424	40.00	ppm	0.00
104) Acenaphthene-d10a	7.823	164	602552	40.00	ppm	0.00
106) Phenanthrene-d10a	9.990	188	1035631	40.00	ppm	0.01
110) Chrysene-d12a	14.162	240	1049500	40.00	ppm	0.02
112) Naphthalene-d8a	5.764	136	1023604	40.00	ppm	0.00
114) Chrysene-d12b	14.162	240	1049500	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.694	112	836221	92.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	184.10%	
8) Phenol-d5	4.416	99	1076951	90.76	ppm	0.01
Spiked Amount 50.000			Recovery	=	181.52%	
25) Nitrobenzene-d5	5.117	82	1063947	92.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	185.70%	
51) 2-Fluorobiphenyl	6.957	172	1730406	85.55	ppm	0.01
Spiked Amount 50.000			Recovery	=	171.10%	
73) 2,4,6-Tribromophenol	8.952	330	247316	110.39	ppm	0.02
Spiked Amount 50.000			Recovery	=	220.78%	
85) Terphenyl-d14	12.541	244	1936383	101.95	ppm	0.01
Spiked Amount 50.000			Recovery	=	203.90%	
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	2.234	88	423592	90.36	ppm	94
3) Pyridine	2.555	79	1079454	93.68	ppm	95
4) N-Nitrosodimethylamine	2.523	74	648531	87.49	ppm	82
6) Indene	4.876	116	1289468	77.99	ppm	97
7) Cumene	4.085	105	2151607	85.10	ppm	96
9) Phenol	4.427	94	1171156	84.59	ppm	73
10) Aniline	4.432	93	1069963	66.34	ppm	82
11) bis(2-Chloroethyl)ether	4.481	93	877059	87.29	ppm	98
12) 2-Chlorophenol	4.523	128	858301	87.73	ppm	97
13) Decane	4.555	43	994653	83.42	ppm	89
14) 1,3-Dichlorobenzene	4.636	146	884915	82.93	ppm	97
15) 1,4-Dichlorobenzene	4.689	146	898043	83.55	ppm	93
16) Benzyl alcohol	4.785	108	573497	91.06	ppm	88
17) 1,2-Dichlorobenzene	4.807	146	815562	84.73	ppm	96
18) Acetophenone	4.994	105	1109337	76.67	ppm	97
19) 2-Methylphenol	4.876	108	709671	83.10	ppm	91
20) 2,2'-oxybis(1-Chloropr...	4.887	121	285602	83.55	ppm #	72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24814.D
Acq On : 5 Apr 2016 5:41 pm
Operator : sarad
Sample : ic1155-100
Misc : op92208,e6p1155
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 19:54:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:33:31 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	4.999	108	740122	80.34	ppm		89
22) n-Nitroso-di-n-propyla...	4.999	70	659453	77.15	ppm		100
23) Hexachloroethane	5.080	201	329532	89.34	ppm		94
26) Nitrobenzene	5.133	77	1085098	90.28	ppm		98
27) Quinoline	6.139	129	1702938	94.18	ppm		90
28) Isophorone	5.342	82	1817562	90.18	ppm		97
29) 2-Nitrophenol	5.411	139	445051	102.07	ppm		83
30) 2,4-Dimethylphenol	5.449	107	912749	114.20	ppm		91
31) Benzoic acid	5.593	105	796497m	178.02	ppm		
32) bis(2-Chloroethoxy)met...	5.529	93	1052121	85.83	ppm		94
33) 2,4-Dichlorophenol	5.630	162	684557	91.98	ppm		92
34) 2,6-Dichlorophenol	5.850	162	655071	86.77	ppm		94
35) 1,3,5-Trichlorobenzene	5.422	180	753978	80.58	ppm		97
36) 1,2,4-Trichlorobenzene	5.711	180	755898	84.50	ppm		92
37) 1,2,3-Trichlorobenzene	5.930	180	731358	85.80	ppm		97
38) Naphthalene	5.786	128	2429586	83.79	ppm		98
39) 4-Chloroaniline	5.839	127	940733	82.32	ppm		97
40) 2,3-Dichloroaniline	6.850	161	807956	88.84	ppm		94
41) Caprolactam	6.235	55	457168	102.67	ppm		94
42) Hexachlorobutadiene	5.914	225	427418	84.63	ppm		94
43) 4-Chloro-3-methylphenol	6.363	107	846270	98.08	ppm		83
44) 2-Methylnaphthalene	6.518	141	1326395	86.89	ppm		97
45) 1-Methylnaphthalene	6.631	141	1373726	85.83	ppm		96
46) Dimethylnaphthalene	7.278	156	1527130	87.55	ppm		98
48) Hexachlorocyclopentadiene	6.711	237	967885	223.30	ppm		90
49) 2,4,6-Trichlorophenol	6.855	196	484978	96.33	ppm		88
50) 2,4,5-Trichlorophenol	6.903	196	537316	102.47	ppm		95
52) 2-Chloronaphthalene	7.101	162	1516008	84.85	ppm		97
53) Biphenyl	7.080	154	2048955	84.10	ppm		98
54) 2-Nitroaniline	7.240	65	625954	104.62	ppm		89
55) Dimethylphthalate	7.492	163	1821779	89.30	ppm		100
56) Acenaphthylene	7.636	152	2424554	91.11	ppm		93
57) 2,6-Dinitrotoluene	7.561	165	408324	121.30	ppm		90
58) 3-Nitroaniline	7.786	138	476693	111.31	ppm	#	51
59) Acenaphthene	7.872	153	1591670	86.31	ppm		97
60) 2,4-Dinitrophenol	7.930	184	501812	579.31	ppm	#	63
61) 4-Nitrophenol	8.053	109	315418	126.64	ppm	#	86
62) Dibenzofuran	8.112	168	2041417	80.07	ppm		96
63) 2,4-Dinitrotoluene	8.112	165	522827	119.81	ppm		98
64) 2,3,4,6-Tetrachlorophenol	8.299	232	469192	103.93	ppm		97
65) Diethylphthalate	8.492	149	1793269	95.51	ppm		98
66) Fluorene	8.599	166	1795302	89.24	ppm		91
67) 4-Chlorophenyl-phenyle...	8.620	204	907406	82.66	ppm		90
68) 4-Nitroaniline	8.663	138	482087	114.69	ppm		92
70) 4,6-Dinitro-2-methylph...	8.701	198	371727	243.22	ppm		83
71) n-Nitrosodiphenylamine	8.802	169	1333012	94.95	ppm		90
72) 1,2-Diphenylhydrazine	8.850	77	2168481	96.37	ppm		94
74) 4-Bromophenyl-phenylether	9.342	248	520745	93.98	ppm		93
75) Hexachlorobenzene	9.423	284	523938	92.32	ppm		90
76) Pentachlorophenol	9.728	266	727390	232.17	ppm		90

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24814.D
Acq On : 5 Apr 2016 5:41 pm
Operator : sarad
Sample : ic1155-100
Misc : op92208,e6p1155
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 19:54:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:33:31 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
77) Phenanthrene	10.032	178	2703181	85.84	ppm		97
78) Anthracene	10.107	178	2729889	92.15	ppm		97
79) Carbazole	10.380	167	2433343	93.70	ppm		98
80) Di-n-butylphthalate	11.011	149	3003020	103.83	ppm		96
81) Fluoranthene	11.883	202	3083289	95.99	ppm		98
82) Octadecane	9.958	57	1326519	96.76	ppm		94
84) Pyrene	12.231	202	3204640	100.36	ppm		94
86) Butylbenzylphthalate	13.381	149	1363108	116.18	ppm		93
87) Butyl stearate	13.557	56	930323	121.45	ppm		88
88) Benzo[a]anthracene	14.146	228	2840500	91.75	ppm		97
89) 3,3'-Dichlorobenzidine	14.156	252	989353	111.35	ppm	#	79
90) Chrysene	14.210	228	2868158	95.75	ppm		96
91) bis(2-Ethylhexyl)phtha...	14.343	149	1870622	121.45	ppm		96
93) Di-n-octylphthalate	15.328	149	3258623	121.69	ppm		99
94) Benzo[b]fluoranthene	15.761	252	2911867	102.79	ppm		97
95) Benzo[k]fluoranthene	15.804	252	2715395m	99.32	ppm		
96) Benzo[a]pyrene	16.194	252	2592704	106.81	ppm		91
97) Indeno[1,2,3-cd]pyrene	17.617	276	2687952	127.98	ppm		93
98) Dibenz(a,h)acridine	17.333	279	2328381	112.89	ppm		91
99) Dibenz[a,h]anthracene	17.649	278	2655494	106.30	ppm		97
100) 7,12-Dimethylbenz(a)an...	15.766	256	1262365	125.89	ppm		96
101) Benzo[g,h,i]perylene	17.970	276	2657625	100.14	ppm		94

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

7.6.17

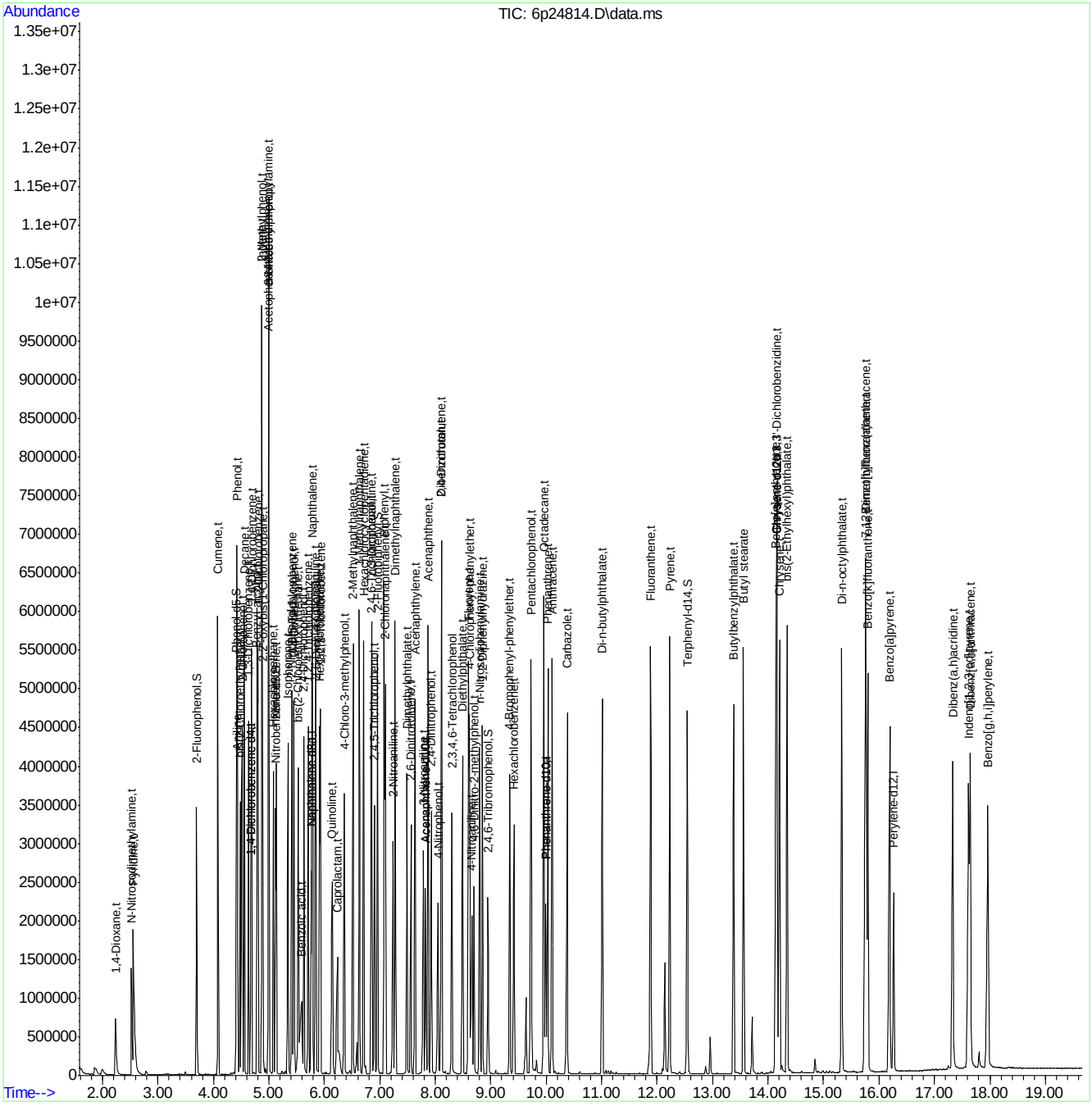
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24814.D
Acq On : 5 Apr 2016 5:41 pm
Operator : sarad
Sample : ic1155-100
Misc : op92208,e6p1155
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 19:54:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:33:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Manual Integration Approval Summary

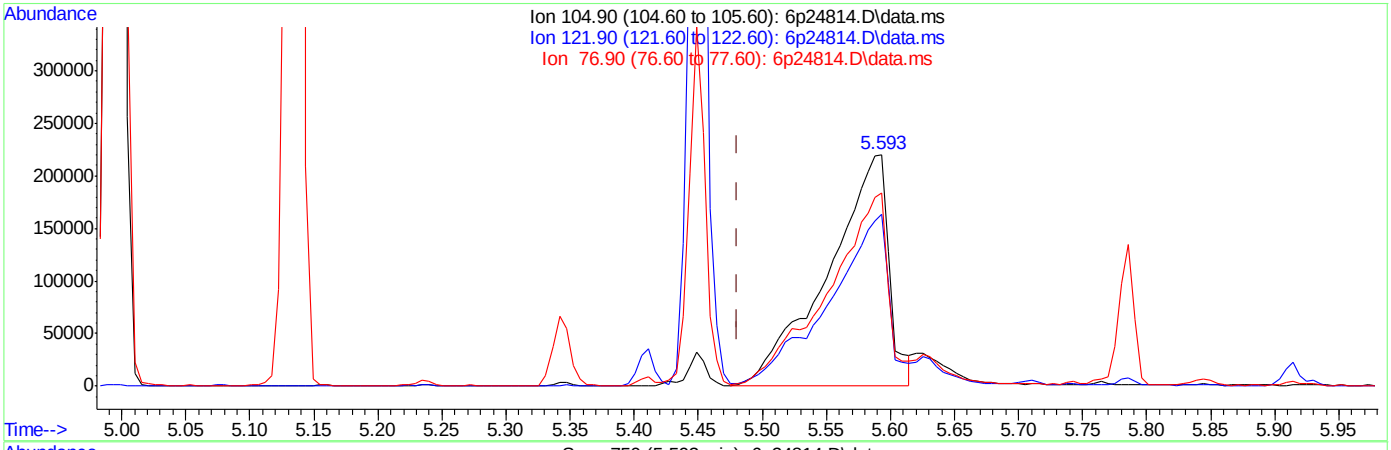
Sample Number:	E6P1155-IC1155	**Method:**	SW846 8270D
Lab FileID:	6P24814.D	**Analyst approved:**	04/06/16 09:50 Ashley Dye
Injection Time:	04/05/16 17:41	**Supervisor approved:**	04/06/16 16:06 Kristi Schollenberger

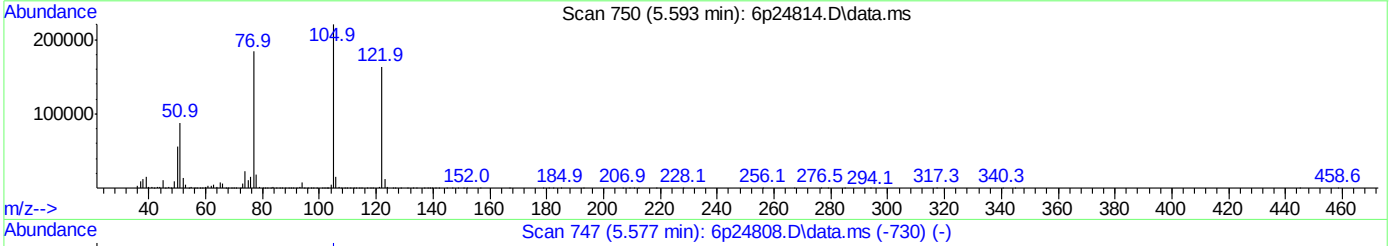
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.59	Split peak
Benzo(k)fluoranthene	207-08-9		15.80	Overlapping peak

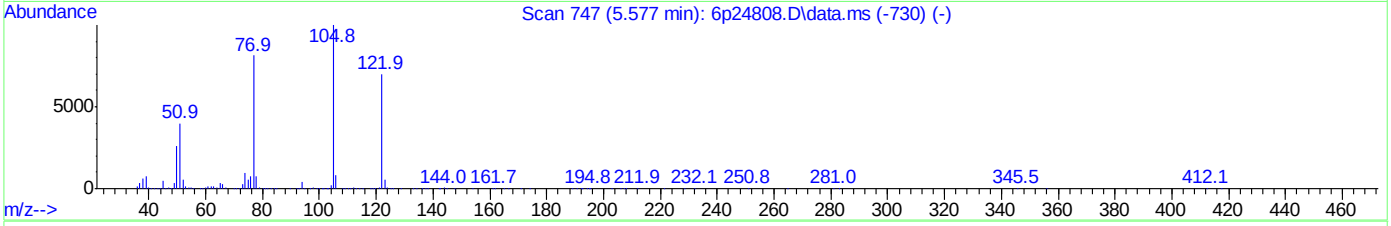
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24814.D
Acq On : 5 Apr 2016 5:41 pm
Operator : sarad
Sample : ic1155-100
Misc : op92208,e6p1155
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 18:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:33:31 2016
Response via : Initial Calibration







TIC: 6p24814.D\data.ms

(31) Benzoic acid (t)

5.593min (+0.112) 162.37ppm

response 726508

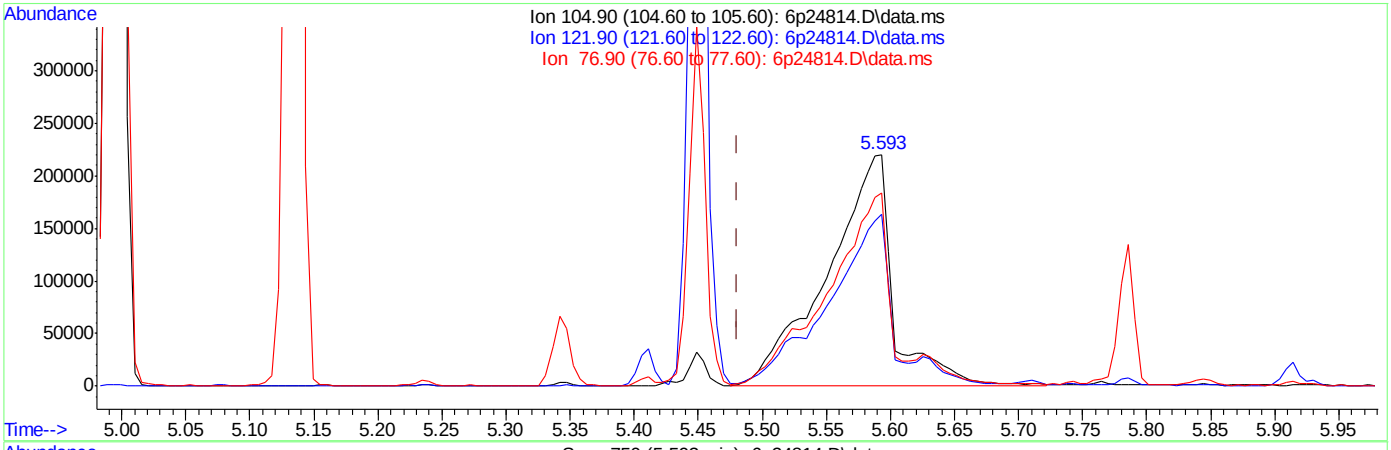
Ion	Exp%	Act%
104.90	100	100
121.90	59.90	73.36
76.90	76.20	83.45
0.00	0.00	0.00

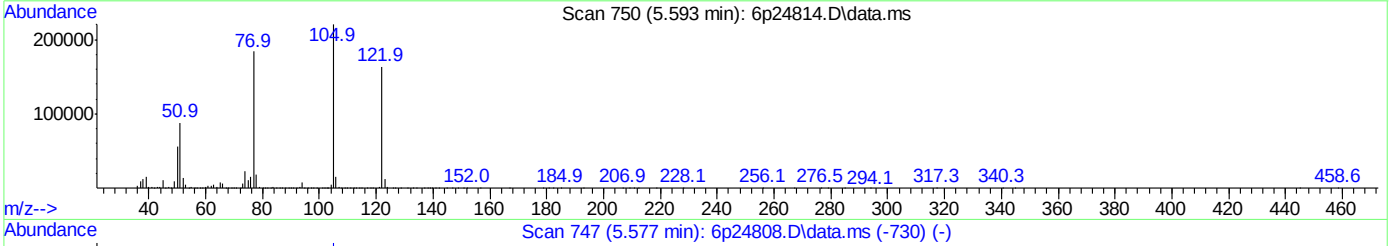
SGS ACCUTEST JC19759

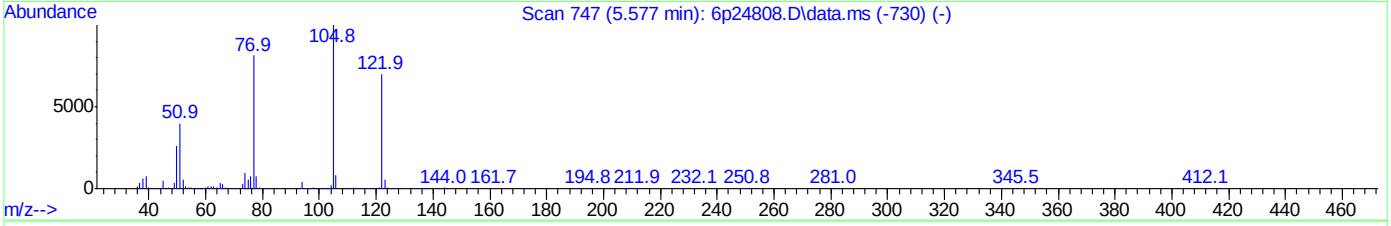
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24814.D
Acq On : 5 Apr 2016 5:41 pm
Operator : sarad
Sample : ic1155-100
Misc : op92208,e6p1155
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 18:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:33:31 2016
Response via : Initial Calibration







TIC: 6p24814.D\data.ms

(31) Benzoic acid (t)

5.593min (+0.112) 178.02ppm m

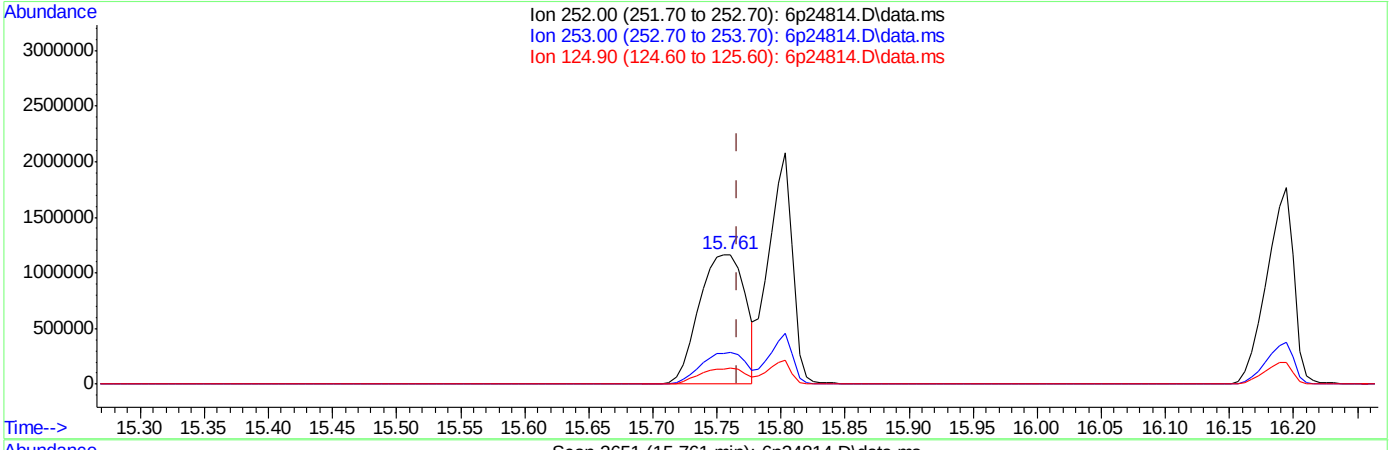
response 796497

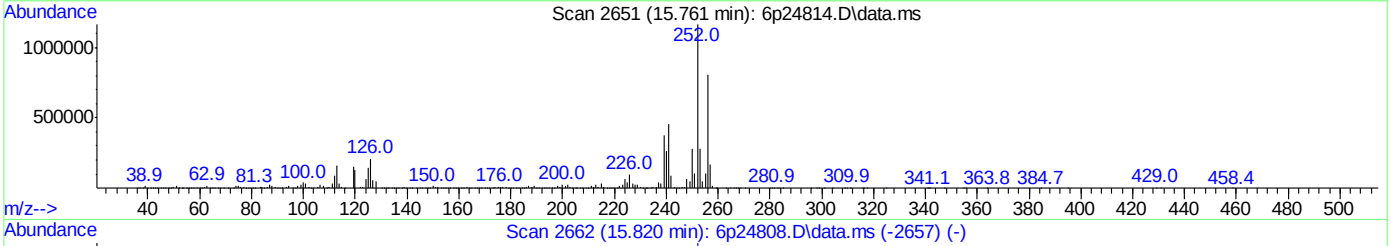
Ion	Exp%	Act%
104.90	100	100
121.90	59.90	74.04
76.90	76.20	83.57
0.00	0.00	0.00

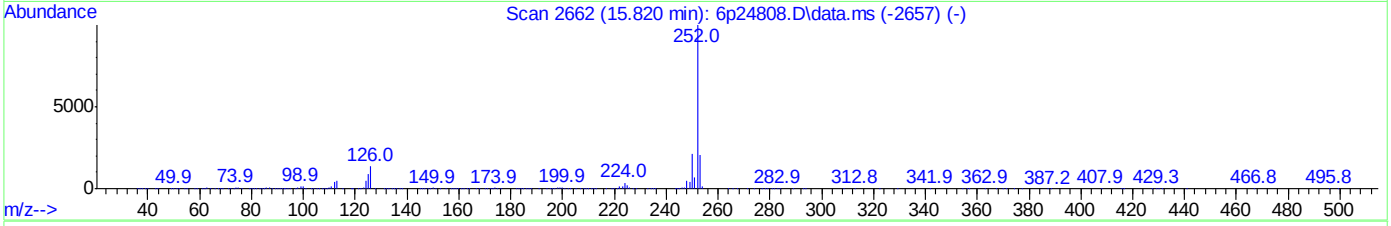
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24814.D
Acq On : 5 Apr 2016 5:41 pm
Operator : sarad
Sample : ic1155-100
Misc : op92208,e6p1155
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 18:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:33:31 2016
Response via : Initial Calibration







TIC: 6p24814.D\data.ms

(95) Benzo[k]fluoranthene (t)

15.761min (-0.005) 106.51ppm

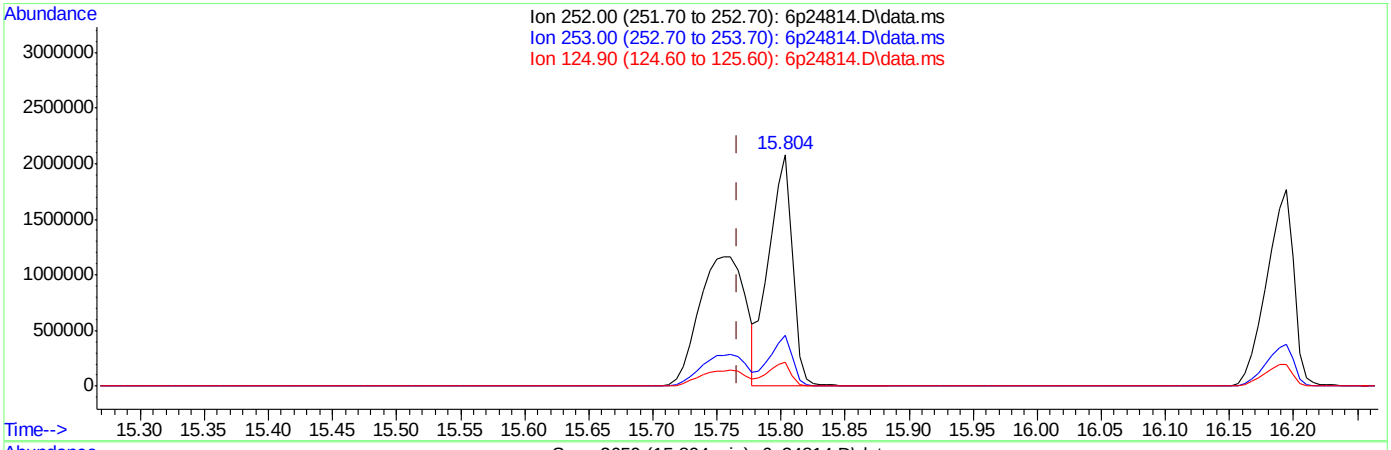
response 2911867

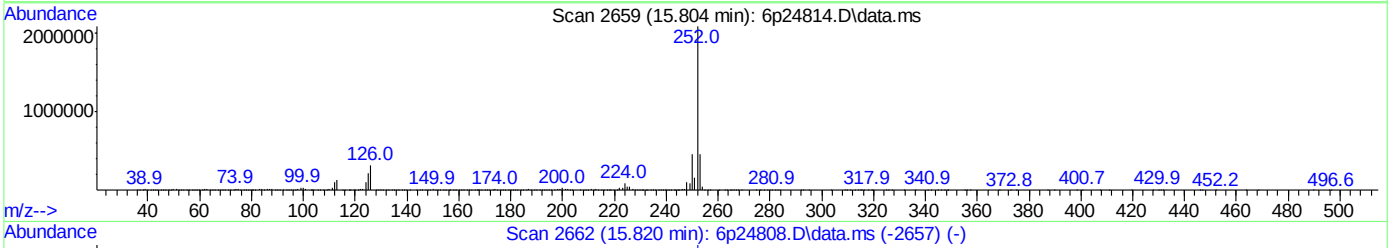
Ion	Exp%	Act%
252.00	100	100
253.00	26.50	24.56
124.90	10.50	13.18
0.00	0.00	0.00

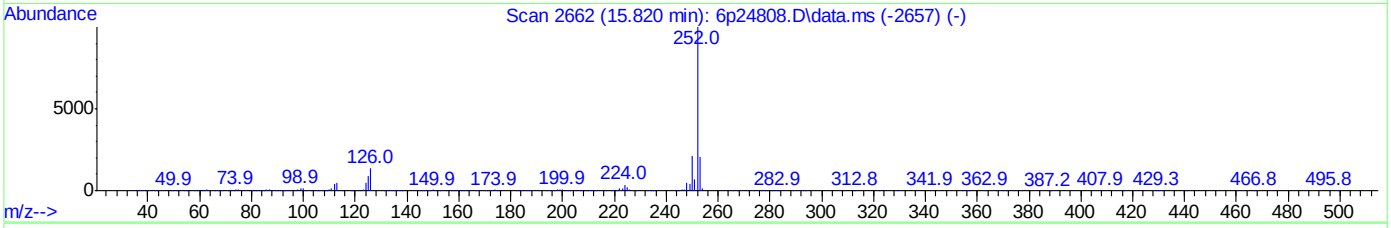
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24814.D
Acq On : 5 Apr 2016 5:41 pm
Operator : sarad
Sample : ic1155-100
Misc : op92208,e6p1155
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 18:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:32:08 2016
QLast Update : Tue Apr 05 18:33:31 2016
Response via : Initial Calibration







TIC: 6p24814.D\data.ms

(95) Benzo[k]fluoranthene (t)

15.804min (+0.037) 99.32ppm m

response 2715395

Ion	Exp%	Act%
252.00	100	100
253.00	26.50	21.73
124.90	10.50	10.18
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24815.D
Acq On : 5 Apr 2016 6:09 pm
Operator : sarad
Sample : ic1155-80
Misc : op92208,e6p1155
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 18:35:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:34:49 2016
QLast Update : Tue Apr 05 18:34:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	274588	40.00	ppm	0.00
24) Naphthalene-d8	5.764	136	1133601	40.00	ppm	0.00
47) Acenaphthene-d10	7.823	164	663369	40.00	ppm	0.00
69) Phenanthrene-d10	9.990	188	1148896	40.00	ppm	0.00
83) Chrysene-d12	14.162	240	1154347	40.00	ppm	0.00
92) Perylene-d12	16.258	264	1116735	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	274588	40.00	ppm	0.00
104) Acenaphthene-d10a	7.823	164	663369	40.00	ppm	0.00
106) Phenanthrene-d10a	9.990	188	1148896	40.00	ppm	0.00
110) Chrysene-d12a	14.162	240	1154347	40.00	ppm	0.00
112) Naphthalene-d8a	5.764	136	1133601	40.00	ppm	0.00
114) Chrysene-d12b	14.162	240	1154347	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.694	112	763631	78.75	ppm	0.00
Spiked Amount 50.000			Recovery	=	157.50%	
8) Phenol-d5	4.411	99	999841	79.29	ppm	0.00
Spiked Amount 50.000			Recovery	=	158.58%	
25) Nitrobenzene-d5	5.117	82	978058	78.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	157.90%	
51) 2-Fluorobiphenyl	6.957	172	1590835	75.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	150.10%	
73) 2,4,6-Tribromophenol	8.952	330	225764	87.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	175.60%	
85) Terphenyl-d14	12.541	244	1786864	84.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	169.96%	
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	2.234	88	382446	76.87	ppm	99
3) Pyridine	2.555	79	993764	80.35	ppm	100
4) N-Nitrosodimethylamine	2.523	74	590114	75.76	ppm	99
6) Indene	4.876	116	1206919	71.84	ppm	98
7) Cumene	4.085	105	1992345	75.62	ppm	99
9) Phenol	4.422	94	1086542	75.45	ppm	89
10) Aniline	4.432	93	1005953	64.07	ppm	93
11) bis(2-Chloroethyl)ether	4.481	93	806146	76.41	ppm	98
12) 2-Chlorophenol	4.523	128	789596	76.74	ppm	99
13) Decane	4.555	43	909330	73.62	ppm	99
14) 1,3-Dichlorobenzene	4.636	146	819699	74.29	ppm	100
15) 1,4-Dichlorobenzene	4.689	146	818145	73.45	ppm	99
16) Benzyl alcohol	4.785	108	532742	79.52	ppm	99
17) 1,2-Dichlorobenzene	4.807	146	757267	75.60	ppm	99
18) Acetophenone	4.994	105	1028710	70.31	ppm	97
19) 2-Methylphenol	4.876	108	665153	75.27	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.887	121	263842	74.47	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24815.D
Acq On : 5 Apr 2016 6:09 pm
Operator : sarad
Sample : ic1155-80
Misc : op92208,e6p1155
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 18:35:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:34:49 2016
QLast Update : Tue Apr 05 18:34:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.999	108	690944	73.20	ppm	98
22) n-Nitroso-di-n-propyla...	4.999	70	604372	69.80	ppm	100
23) Hexachloroethane	5.080	201	305248	78.26	ppm	97
26) Nitrobenzene	5.133	77	1004803	78.01	ppm	99
27) Quinoline	6.144	129	1565493	79.72	ppm	99
28) Isophorone	5.342	82	1682573	77.93	ppm	99
29) 2-Nitrophenol	5.406	139	415426	85.44	ppm	88
30) 2,4-Dimethylphenol	5.449	107	833906	89.96	ppm	99
31) Benzoic acid	5.588	105	734124	117.58	ppm	96
32) bis(2-Chloroethoxy)met...	5.529	93	967152	74.78	ppm	99
33) 2,4-Dichlorophenol	5.630	162	626657	78.12	ppm	97
34) 2,6-Dichlorophenol	5.850	162	602101	75.34	ppm	98
35) 1,3,5-Trichlorobenzene	5.422	180	697012	71.92	ppm	99
36) 1,2,4-Trichlorobenzene	5.705	180	697681	74.26	ppm	97
37) 1,2,3-Trichlorobenzene	5.930	180	673400	74.88	ppm	98
38) Naphthalene	5.786	128	2237367	73.66	ppm	99
39) 4-Chloroaniline	5.839	127	887220	74.49	ppm	98
40) 2,3-Dichloroaniline	6.845	161	756948	78.06	ppm	98
41) Caprolactam	6.230	55	418305	84.08	ppm	97
42) Hexachlorobutadiene	5.914	225	392671	74.00	ppm	100
43) 4-Chloro-3-methylphenol	6.358	107	774272	81.55	ppm	99
44) 2-Methylnaphthalene	6.513	141	1226870	75.89	ppm	99
45) 1-Methylnaphthalene	6.631	141	1255956	74.37	ppm	99
46) Dimethylnaphthalene	7.278	156	1422403	76.82	ppm	99
48) Hexachlorocyclopentadiene	6.706	237	891259	179.79	ppm	100
49) 2,4,6-Trichlorophenol	6.855	196	448214	81.87	ppm	98
50) 2,4,5-Trichlorophenol	6.903	196	500497	85.99	ppm	98
52) 2-Chloronaphthalene	7.096	162	1406910	75.33	ppm	99
53) Biphenyl	7.080	154	1896122	74.65	ppm	99
54) 2-Nitroaniline	7.235	65	581568	86.95	ppm	96
55) Dimethylphthalate	7.486	163	1670275	77.12	ppm	99
56) Acenaphthylene	7.631	152	2224698	78.25	ppm	99
57) 2,6-Dinitrotoluene	7.556	165	381348	96.08	ppm	97
58) 3-Nitroaniline	7.781	138	435464	89.01	ppm	99
59) Acenaphthene	7.872	153	1472647	76.01	ppm	98
60) 2,4-Dinitrophenol	7.925	184	470847	302.50	ppm	96
61) 4-Nitrophenol	8.048	109	287430	96.27	ppm	94
62) Dibenzofuran	8.112	168	1865182	71.18	ppm	100
63) 2,4-Dinitrotoluene	8.112	165	480730	93.86	ppm	98
64) 2,3,4,6-Tetrachlorophenol	8.294	232	437353	86.86	ppm	97
65) Diethylphthalate	8.487	149	1649102	80.99	ppm	100
66) Fluorene	8.599	166	1648954	77.22	ppm	99
67) 4-Chlorophenyl-phenyle...	8.615	204	834849	73.32	ppm	99
68) 4-Nitroaniline	8.658	138	444990	91.67	ppm	98
70) 4,6-Dinitro-2-methylph...	8.701	198	341158	136.19	ppm	94
71) n-Nitrosodiphenylamine	8.797	169	1235751	80.70	ppm	99
72) 1,2-Diphenylhydrazine	8.850	77	1985493	80.51	ppm	98
74) 4-Bromophenyl-phenylether	9.337	248	474873	78.84	ppm	95
75) Hexachlorobenzene	9.417	284	477907	77.90	ppm	97
76) Pentachlorophenol	9.728	266	673680	183.97	ppm	100

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24815.D
Acq On : 5 Apr 2016 6:09 pm
Operator : sarad
Sample : ic1155-80
Misc : op92208,e6p1155
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 18:35:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:34:49 2016
QLast Update : Tue Apr 05 18:34:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.027	178	2473281	74.31 ppm	99
78) Anthracene	10.107	178	2526372	78.94 ppm	99
79) Carbazole	10.375	167	2250887	79.80 ppm	98
80) Di-n-butylphthalate	11.006	149	2766731	85.14 ppm	100
81) Fluoranthene	11.878	202	2816067	80.10 ppm	99
82) Octadecane	9.952	57	1211323	80.52 ppm	99
84) Pyrene	12.225	202	2945857	83.78 ppm	99
86) Butylbenzylphthalate	13.375	149	1247487	91.72 ppm	98
87) Butyl stearate	13.552	56	859487	95.20 ppm	98
88) Benzo[a]anthracene	14.140	228	2623760	79.23 ppm	98
89) 3,3'-Dichlorobenzidine	14.156	252	901331	88.86 ppm	100
90) Chrysene	14.204	228	2622665	80.74 ppm	100
91) bis(2-Ethylhexyl)phtha...	14.338	149	1733765	95.51 ppm	100
93) Di-n-octylphthalate	15.328	149	3010998	94.89 ppm	98
94) Benzo[b]fluoranthene	15.750	252	2655374	84.04 ppm	98
95) Benzo[k]fluoranthene	15.798	252	2475479	82.12 ppm	99
96) Benzo[a]pyrene	16.189	252	2357380	85.93 ppm	99
97) Indeno[1,2,3-cd]pyrene	17.611	276	2423606	95.51 ppm	98
98) Dibenz(a,h)acridine	17.328	279	2127909	89.51 ppm	100
99) Dibenz[a,h]anthracene	17.644	278	2410883	85.53 ppm	99
100) 7,12-Dimethylbenz(a)an...	15.761	256	1156721	96.09 ppm	98
101) Benzo[g,h,i]perylene	17.959	276	2418552	82.43 ppm	99

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

7.6.18

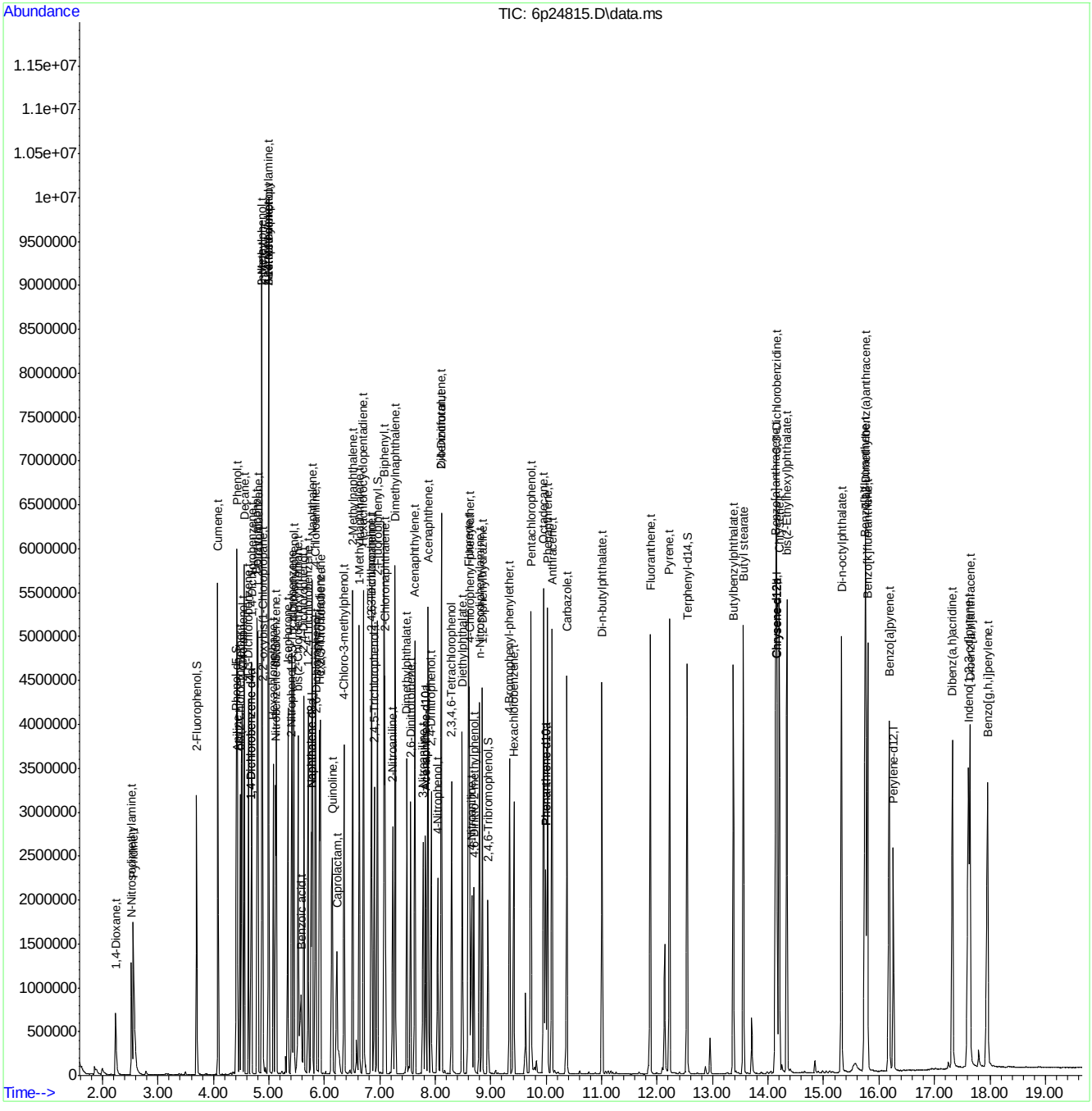
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24815.D
Acq On : 5 Apr 2016 6:09 pm
Operator : sarad
Sample : ic1155-80
Misc : op92208,e6p1155
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 18:35:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:34:49 2016
QLast Update : Tue Apr 05 18:34:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 16:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24816.D
Acq On : 5 Apr 2016 6:36 pm
Operator : sarad
Sample : ic1155-25
Misc : op92208,e6p1155
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 05 19:14:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:35:55 2016
QLast Update : Tue Apr 05 18:35:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	268180	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1090291	40.00	ppm	0.00
47) Acenaphthene-d10	7.823	164	639792	40.00	ppm	0.00
69) Phenanthrene-d10	9.990	188	1094586	40.00	ppm	0.00
83) Chrysene-d12	14.156	240	1154708	40.00	ppm	0.00
92) Perylene-d12	16.264	264	1067918	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	268180	40.00	ppm	0.00
104) Acenaphthene-d10a	7.823	164	639792	40.00	ppm	0.00
106) Phenanthrene-d10a	9.990	188	1094586	40.00	ppm	0.00
110) Chrysene-d12a	14.156	240	1154708	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1090291	40.00	ppm	0.00
114) Chrysene-d12b	14.156	240	1154708	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.694	112	241418	25.59	ppm	0.00
Spiked Amount 50.000			Recovery = 51.18%			
8) Phenol-d5	4.406	99	321570	26.17	ppm	0.00
Spiked Amount 50.000			Recovery = 52.34%			
25) Nitrobenzene-d5	5.112	82	300171	25.28	ppm	0.00
Spiked Amount 50.000			Recovery = 50.56%			
51) 2-Fluorobiphenyl	6.952	172	512186	25.45	ppm	0.00
Spiked Amount 50.000			Recovery = 50.90%			
73) 2,4,6-Tribromophenol	8.947	330	68648	27.35	ppm	0.00
Spiked Amount 50.000			Recovery = 54.70%			
85) Terphenyl-d14	12.536	244	562828	26.35	ppm	0.00
Spiked Amount 50.000			Recovery = 52.70%			
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	2.239	88	119458	24.83	ppm	99
3) Pyridine	2.560	79	304733	25.20	ppm	98
4) N-Nitrosodimethylamine	2.523	74	185521	24.71	ppm	97
6) Indene	4.876	116	418944	26.20	ppm	97
7) Cumene	4.079	105	649313	25.58	ppm	98
9) Phenol	4.416	94	365036	26.33	ppm	82
10) Aniline	4.427	93	364962	25.05	ppm	99
11) bis(2-Chloroethyl)ether	4.475	93	259809	25.50	ppm	99
12) 2-Chlorophenol	4.518	128	259145	26.05	ppm	97
13) Decane	4.555	43	303384	25.66	ppm	99
14) 1,3-Dichlorobenzene	4.630	146	268207	25.34	ppm	97
15) 1,4-Dichlorobenzene	4.689	146	271311	25.46	ppm	98
16) Benzyl alcohol	4.780	108	170336	26.07	ppm	98
17) 1,2-Dichlorobenzene	4.807	146	250201	25.93	ppm	99
18) Acetophenone	4.989	105	355928	25.69	ppm	98
19) 2-Methylphenol	4.871	108	233353	27.44	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.887	121	88598	26.06	ppm	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24816.D
Acq On : 5 Apr 2016 6:36 pm
Operator : sarad
Sample : ic1155-25
Misc : op92208,e6p1155
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 05 19:14:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:35:55 2016
QLast Update : Tue Apr 05 18:35:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	4.989	108	237650	26.34	ppm		99
22) n-Nitroso-di-n-propyla...	4.989	70	209270	25.56	ppm		96
23) Hexachloroethane	5.080	201	95699	25.26	ppm		94
26) Nitrobenzene	5.128	77	323450	26.27	ppm		99
27) Quinoline	6.123	129	481543	25.52	ppm		99
28) Isophorone	5.331	82	531501	25.76	ppm		99
29) 2-Nitrophenol	5.406	139	131733	27.70	ppm		84
30) 2,4-Dimethylphenol	5.443	107	240969	26.21	ppm		98
31) Benzoic acid	5.534	105	194833	29.03	ppm		98
32) bis(2-Chloroethoxy)met...	5.523	93	308463	25.21	ppm		99
33) 2,4-Dichlorophenol	5.625	162	201860	26.32	ppm		99
34) 2,6-Dichlorophenol	5.844	162	197850	26.12	ppm		97
35) 1,3,5-Trichlorobenzene	5.417	180	232708	25.61	ppm		99
36) 1,2,4-Trichlorobenzene	5.705	180	228429	25.74	ppm		98
37) 1,2,3-Trichlorobenzene	5.925	180	219340	25.77	ppm		98
38) Naphthalene	5.780	128	728820	25.45	ppm		100
39) 4-Chloroaniline	5.834	127	303194	26.93	ppm		98
40) 2,3-Dichloroaniline	6.845	161	243029	26.22	ppm		98
41) Caprolactam	6.187	55	126717	26.15	ppm		99
42) Hexachlorobutadiene	5.909	225	125667	25.09	ppm		98
43) 4-Chloro-3-methylphenol	6.347	107	235512	25.67	ppm		99
44) 2-Methylnaphthalene	6.513	141	396301	25.82	ppm		99
45) 1-Methylnaphthalene	6.625	141	412509	25.85	ppm		99
46) Dimethylnaphthalene	7.273	156	463837	26.31	ppm		98
48) Hexachlorocyclopentadiene	6.706	237	270781	54.94	ppm		98
49) 2,4,6-Trichlorophenol	6.850	196	140740	26.50	ppm		98
50) 2,4,5-Trichlorophenol	6.893	196	151896	26.56	ppm		97
52) 2-Chloronaphthalene	7.096	162	460598	25.95	ppm		96
53) Biphenyl	7.075	154	610674	25.35	ppm		99
54) 2-Nitroaniline	7.224	65	171484	26.02	ppm		97
55) Dimethylphthalate	7.481	163	524369	25.33	ppm		99
56) Acenaphthylene	7.625	152	708236	25.97	ppm		100
57) 2,6-Dinitrotoluene	7.551	165	107774	26.81	ppm		97
58) 3-Nitroaniline	7.770	138	132579	27.33	ppm		96
59) Acenaphthene	7.866	153	477671	25.88	ppm		99
60) 2,4-Dinitrophenol	7.914	184	113280	61.72	ppm	#	98
61) 4-Nitrophenol	8.032	109	82067	27.12	ppm		96
62) Dibenzofuran	8.107	168	625256	25.44	ppm		99
63) 2,4-Dinitrotoluene	8.102	165	152131	29.52	ppm		93
64) 2,3,4,6-Tetrachlorophenol	8.289	232	131162	26.44	ppm		98
65) Diethylphthalate	8.481	149	512595	26.02	ppm		99
66) Fluorene	8.594	166	534716	26.19	ppm		99
67) 4-Chlorophenyl-phenyle...	8.615	204	278369	25.89	ppm		96
68) 4-Nitroaniline	8.636	138	131776	27.16	ppm		99
70) 4,6-Dinitro-2-methylph...	8.685	198	86280	30.75	ppm		97
71) n-Nitrosodiphenylamine	8.791	169	383081	26.20	ppm		97
72) 1,2-Diphenylhydrazine	8.845	77	619131	26.31	ppm		100
74) 4-Bromophenyl-phenylether	9.337	248	150027	26.24	ppm		96
75) Hexachlorobenzene	9.412	284	152295	26.23	ppm		99
76) Pentachlorophenol	9.717	266	203687	56.27	ppm		98

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24816.D
Acq On : 5 Apr 2016 6:36 pm
Operator : sarad
Sample : ic1155-25
Misc : op92208,e6p1155
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 05 19:14:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:35:55 2016
QLast Update : Tue Apr 05 18:35:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.022	178	788122	25.30 ppm	100
78) Anthracene	10.097	178	799176	26.30 ppm	99
79) Carbazole	10.369	167	700164	26.07 ppm	98
80) Di-n-butylphthalate	11.006	149	861371	27.38 ppm	100
81) Fluoranthene	11.872	202	875647	26.13 ppm	99
82) Octadecane	9.952	57	388002	27.03 ppm	99
84) Pyrene	12.220	202	926652	26.04 ppm	99
86) Butylbenzylphthalate	13.375	149	378864	26.86 ppm	99
87) Butyl stearate	13.552	56	266734	28.20 ppm	99
88) Benzo[a]anthracene	14.140	228	821659	24.86 ppm	99
89) 3,3'-Dichlorobenzidine	14.146	252	280622	26.91 ppm	96
90) Chrysene	14.194	228	829530	25.47 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.343	149	527222	27.69 ppm	99
93) Di-n-octylphthalate	15.322	149	905701	28.52 ppm	98
94) Benzo[b]fluoranthene	15.739	252	819636	26.79 ppm	99
95) Benzo[k]fluoranthene	15.782	252	784805	27.05 ppm	100
96) Benzo[a]pyrene	16.178	252	723616	27.08 ppm	99
97) Indeno[1,2,3-cd]pyrene	17.601	276	672788m	26.44 ppm	
98) Dibenz(a,h)acridine	17.323	279	626225	26.75 ppm	99
99) Dibenz[a,h]anthracene	17.633	278	733302	26.74 ppm	98
100) 7,12-Dimethylbenz(a)an...	15.750	256	354585	29.33 ppm	99
101) Benzo[g,h,i]perylene	17.943	276	725990	25.68 ppm	100

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

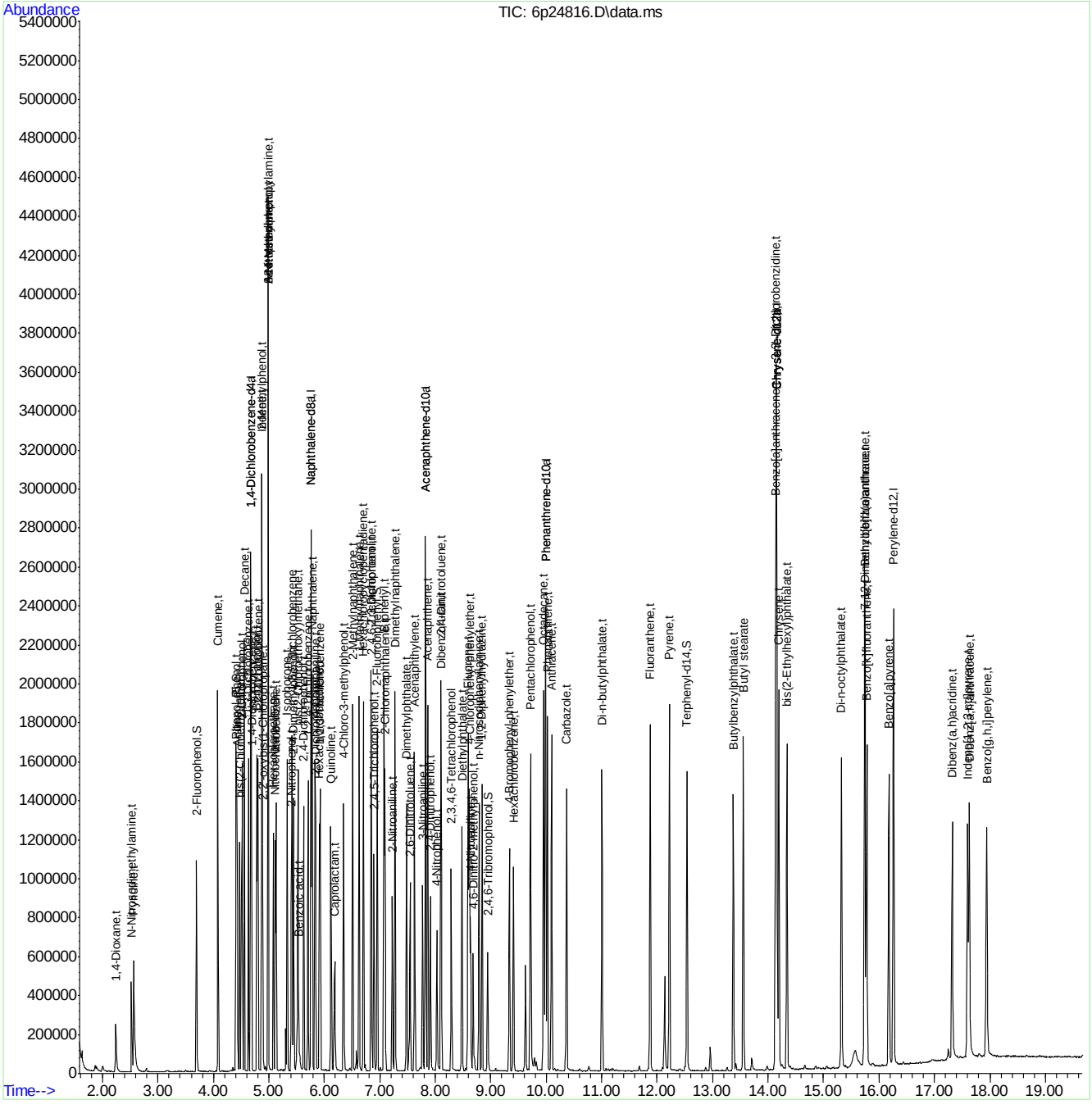
7.6.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24816.D
Acq On : 5 Apr 2016 6:36 pm
Operator : sarad
Sample : ic1155-25
Misc : op92208,e6p1155
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 05 19:14:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:35:55 2016
QLast Update : Tue Apr 05 18:35:55 2016
Response via : Initial Calibration



M6P1155.M Tue Apr 05 19:54:40 2016 ACLIMS Page: 4

Manual Integration Approval Summary

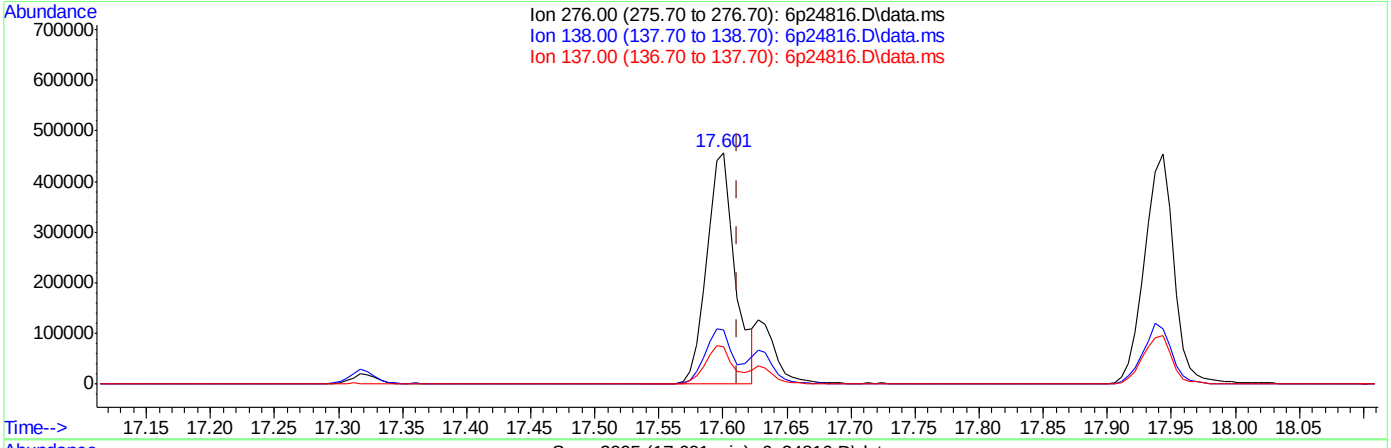
Sample Number:	E6P1155-IC1155	**Method:**	SW846 8270D
Lab FileID:	6P24816.D	**Analyst approved:**	04/06/16 09:50 Ashley Dye
Injection Time:	04/05/16 18:36	**Supervisor approved:**	04/06/16 16:06 Kristi Schollenberger

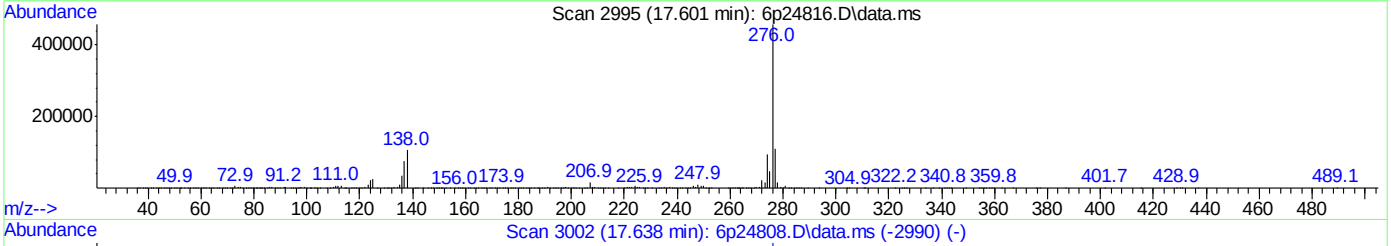
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.60	Overlapping peak

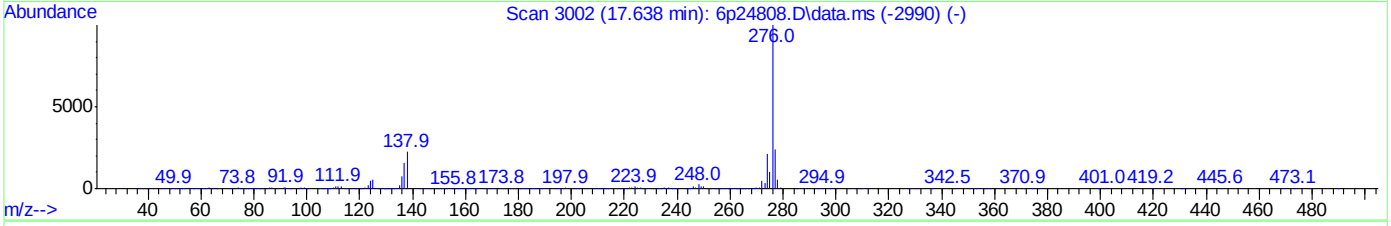
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24816.D
Acq On : 5 Apr 2016 6:36 pm
Operator : sarad
Sample : ic1155-25
Misc : op92208,e6p1155
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 05 19:13:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:35:55 2016
QLast Update : Tue Apr 05 18:35:55 2016
Response via : Initial Calibration







TIC: 6p24816.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.601min (-0.011) 27.83ppm

response 707948

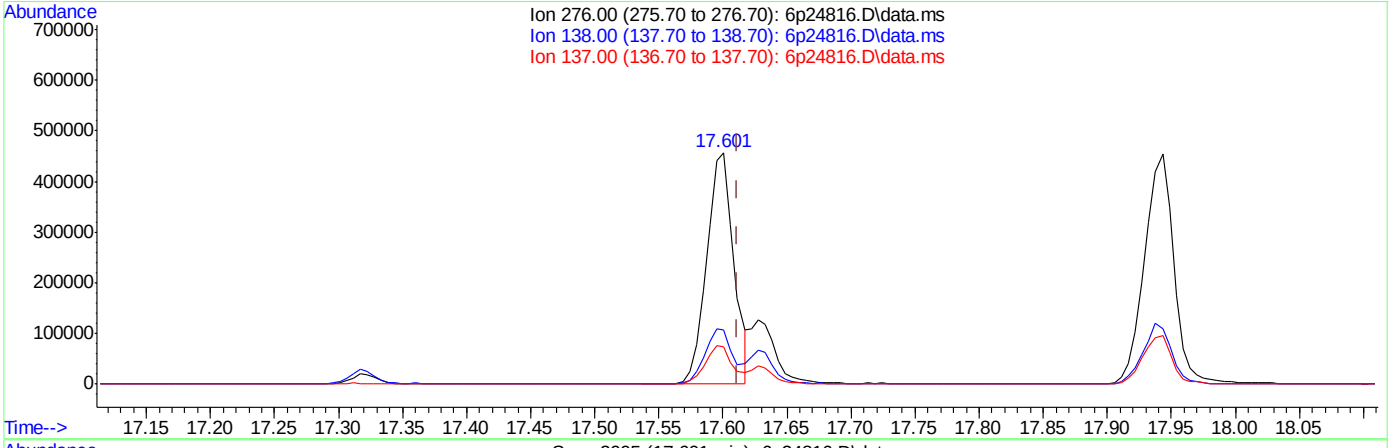
Ion	Exp%	Act%
276.00	100	100
138.00	19.60	19.53
137.00	14.40	14.96
0.00	0.00	0.00

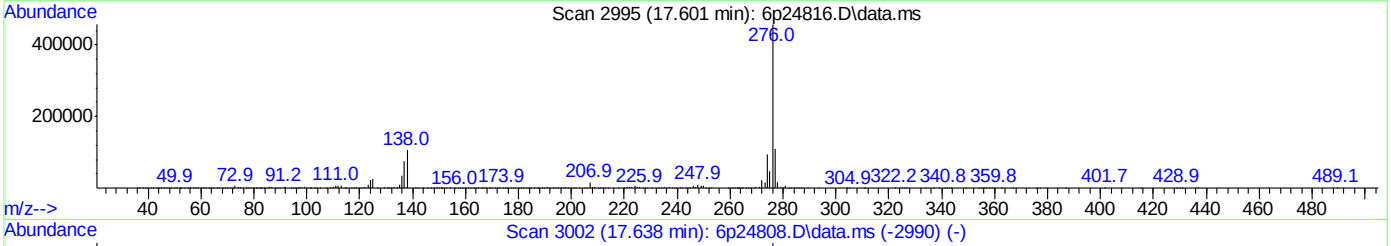
SGS ACCUTEST JC19759

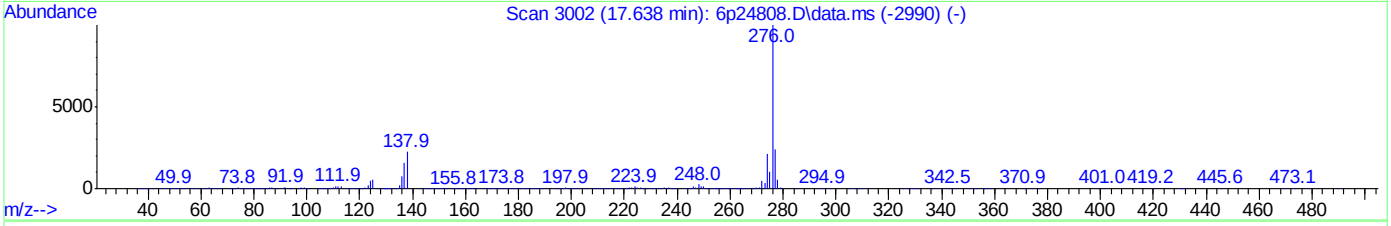
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24816.D
Acq On : 5 Apr 2016 6:36 pm
Operator : sarad
Sample : ic1155-25
Misc : op92208,e6p1155
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 05 19:13:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 18:35:55 2016
QLast Update : Tue Apr 05 18:35:55 2016
Response via : Initial Calibration







TIC: 6p24816.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.601min (-0.011) 26.44ppm m

response 672788

Ion	Exp%	Act%
276.00	100	100
138.00	19.60	23.17
137.00	14.40	16.25
0.00	0.00	0.00

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24817.D
Acq On : 5 Apr 2016 7:04 pm
Operator : sarad
Sample : ic1155-10
Misc : op92208,e6p1155
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 05 19:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:14:19 2016
QLast Update : Tue Apr 05 19:14:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	269986	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1075899	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	625731	40.00	ppm	0.00
69) Phenanthrene-d10	9.984	188	1080327	40.00	ppm	0.00
83) Chrysene-d12	14.146	240	1161024	40.00	ppm	-0.01
92) Perylene-d12	16.253	264	1054625	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.673	152	269986	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	625731	40.00	ppm	0.00
106) Phenanthrene-d10a	9.984	188	1080327	40.00	ppm	0.00
110) Chrysene-d12a	14.146	240	1161024	40.00	ppm	-0.01
112) Naphthalene-d8a	5.759	136	1075899	40.00	ppm	0.00
114) Chrysene-d12b	14.146	240	1161024	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.694	112	96182	10.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.16%	
8) Phenol-d5	4.400	99	128059	10.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.52%	
25) Nitrobenzene-d5	5.112	82	120269	10.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.48%	
51) 2-Fluorobiphenyl	6.952	172	208546	10.56	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.12%	
73) 2,4,6-Tribromophenol	8.936	330	24603	9.75	ppm	-0.01
Spiked Amount 50.000			Recovery	=	19.50%	
85) Terphenyl-d14	12.530	244	219130	10.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.18%	
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	2.239	88	48179	9.96	ppm	98
3) Pyridine	2.566	79	123332	10.11	ppm	96
4) N-Nitrosodimethylamine	2.523	74	72561	9.62	ppm	96
6) Indene	4.871	116	176086	10.84	ppm	98
7) Cumene	4.079	105	265471	10.34	ppm	99
9) Phenol	4.411	94	146627	10.39	ppm	96
10) Aniline	4.427	93	157458	10.73	ppm	98
11) bis(2-Chloroethyl)ether	4.470	93	104718	10.17	ppm	97
12) 2-Chlorophenol	4.518	128	103804	10.28	ppm	98
13) Decane	4.555	43	124102	10.37	ppm	99
14) 1,3-Dichlorobenzene	4.630	146	109007	10.20	ppm	98
15) 1,4-Dichlorobenzene	4.684	146	112923	10.49	ppm	98
16) Benzyl alcohol	4.780	108	67833	10.23	ppm	93
17) 1,2-Dichlorobenzene	4.807	146	104290	10.66	ppm	99
18) Acetophenone	4.983	105	148779	10.61	ppm	100
19) 2-Methylphenol	4.866	108	93483	10.71	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.882	121	36472	10.57	ppm #	86

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24817.D
Acq On : 5 Apr 2016 7:04 pm
Operator : sarad
Sample : ic1155-10
Misc : op92208,e6p1155
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 05 19:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:14:19 2016
QLast Update : Tue Apr 05 19:14:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.989	108	99029	10.79	ppm	99
22) n-Nitroso-di-n-propyla...	4.983	70	87989	10.63	ppm	99
23) Hexachloroethane	5.080	201	39281	10.28	ppm	94
26) Nitrobenzene	5.128	77	126614	10.32	ppm	94
27) Quinoline	6.112	129	191978	10.27	ppm	98
28) Isophorone	5.331	82	214837	10.49	ppm	97
29) 2-Nitrophenol	5.400	139	50499	10.53	ppm	90
30) 2,4-Dimethylphenol	5.438	107	90888	9.92	ppm	99
31) Benzoic acid	5.507	105	65889	9.64	ppm	97
32) bis(2-Chloroethoxy)met...	5.518	93	126288	10.44	ppm	100
33) 2,4-Dichlorophenol	5.625	162	79117	10.34	ppm	96
34) 2,6-Dichlorophenol	5.839	162	77835	10.32	ppm	96
35) 1,3,5-Trichlorobenzene	5.417	180	97042	10.77	ppm	99
36) 1,2,4-Trichlorobenzene	5.705	180	92815	10.54	ppm	97
37) 1,2,3-Trichlorobenzene	5.925	180	91376	10.81	ppm	95
38) Naphthalene	5.780	128	293983	10.37	ppm	99
39) 4-Chloroaniline	5.828	127	125496	11.12	ppm	97
40) 2,3-Dichloroaniline	6.839	161	100465	10.88	ppm	99
41) Caprolactam	6.171	55	48090	9.96	ppm	98
42) Hexachlorobutadiene	5.909	225	53510	10.82	ppm	94
43) 4-Chloro-3-methylphenol	6.342	107	92245	10.13	ppm	98
44) 2-Methylnaphthalene	6.508	141	159928	10.49	ppm	99
45) 1-Methylnaphthalene	6.620	141	167744	10.58	ppm	99
46) Dimethylnaphthalene	7.267	156	185845	10.57	ppm	98
48) Hexachlorocyclopentadiene	6.700	237	104771	21.31	ppm	96
49) 2,4,6-Trichlorophenol	6.845	196	54101	10.29	ppm	99
50) 2,4,5-Trichlorophenol	6.887	196	60510	10.69	ppm	93
52) 2-Chloronaphthalene	7.091	162	183287	10.48	ppm	97
53) Biphenyl	7.069	154	249246	10.55	ppm	98
54) 2-Nitroaniline	7.219	65	63854	9.83	ppm	97
55) Dimethylphthalate	7.476	163	207798	10.24	ppm	99
56) Acenaphthylene	7.620	152	278923	10.38	ppm	99
57) 2,6-Dinitrotoluene	7.540	165	40932	10.26	ppm	95
58) 3-Nitroaniline	7.765	138	51440	10.64	ppm	94
59) Acenaphthene	7.861	153	190283	10.47	ppm	97
60) 2,4-Dinitrophenol	7.909	184	31599	16.81	ppm	98
61) 4-Nitrophenol	8.027	109	29963	9.96	ppm	99
62) Dibenzofuran	8.102	168	252775	10.48	ppm	98
63) 2,4-Dinitrotoluene	8.091	165	56263	10.77	ppm	99
64) 2,3,4,6-Tetrachlorophenol	8.283	232	48992	9.98	ppm	98
65) Diethylphthalate	8.471	149	206278	10.62	ppm	99
66) Fluorene	8.588	166	213919	10.61	ppm	100
67) 4-Chlorophenyl-phenyle...	8.610	204	110147	10.40	ppm	98
68) 4-Nitroaniline	8.626	138	49308	10.21	ppm	99
70) 4,6-Dinitro-2-methylph...	8.674	198	24759	8.55	ppm	91
71) n-Nitrosodiphenylamine	8.781	169	152356	10.46	ppm	100
72) 1,2-Diphenylhydrazine	8.840	77	243219	10.36	ppm	96
74) 4-Bromophenyl-phenylether	9.332	248	58885	10.33	ppm	94
75) Hexachlorobenzene	9.407	284	61045	10.55	ppm	94
76) Pentachlorophenol	9.711	266	74123	20.24	ppm	98

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24817.D
Acq On : 5 Apr 2016 7:04 pm
Operator : sarad
Sample : ic1155-10
Misc : op92208,e6p1155
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 05 19:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:14:19 2016
QLast Update : Tue Apr 05 19:14:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.016	178	318684	10.34 ppm	100
78) Anthracene	10.091	178	322956	10.66 ppm	98
79) Carbazole	10.359	167	280920	10.51 ppm	99
80) Di-n-butylphthalate	11.001	149	334803	10.58 ppm	98
81) Fluoranthene	11.867	202	346059	10.37 ppm	99
82) Octadecane	9.947	57	153891	10.69 ppm	99
84) Pyrene	12.215	202	369009	10.23 ppm	99
86) Butylbenzylphthalate	13.365	149	140754	9.78 ppm	98
87) Butyl stearate	13.546	56	96912	9.93 ppm	98
88) Benzo[a]anthracene	14.129	228	321029	9.67 ppm	97
89) 3,3'-Dichlorobenzidine	14.140	252	105998	9.96 ppm	95
90) Chrysene	14.183	228	332636	10.12 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.333	149	197161	10.08 ppm	99
93) Di-n-octylphthalate	15.317	149	328124	10.18 ppm	97
94) Benzo[b]fluoranthene	15.729	252	322743	10.53 ppm	98
95) Benzo[k]fluoranthene	15.766	252	311225	10.69 ppm	99
96) Benzo[a]pyrene	16.167	252	280880	10.47 ppm	97
97) Indeno[1,2,3-cd]pyrene	17.585	276	256496	10.09 ppm	94
98) Dibenz(a,h)acridine	17.312	279	238158	10.16 ppm	100
99) Dibenz[a,h]anthracene	17.617	278	283034	10.31 ppm	97
100) 7,12-Dimethylbenz(a)an...	15.734	256	125021	10.12 ppm	97
101) Benzo[g,h,i]perylene	17.927	276	280200	9.98 ppm	98

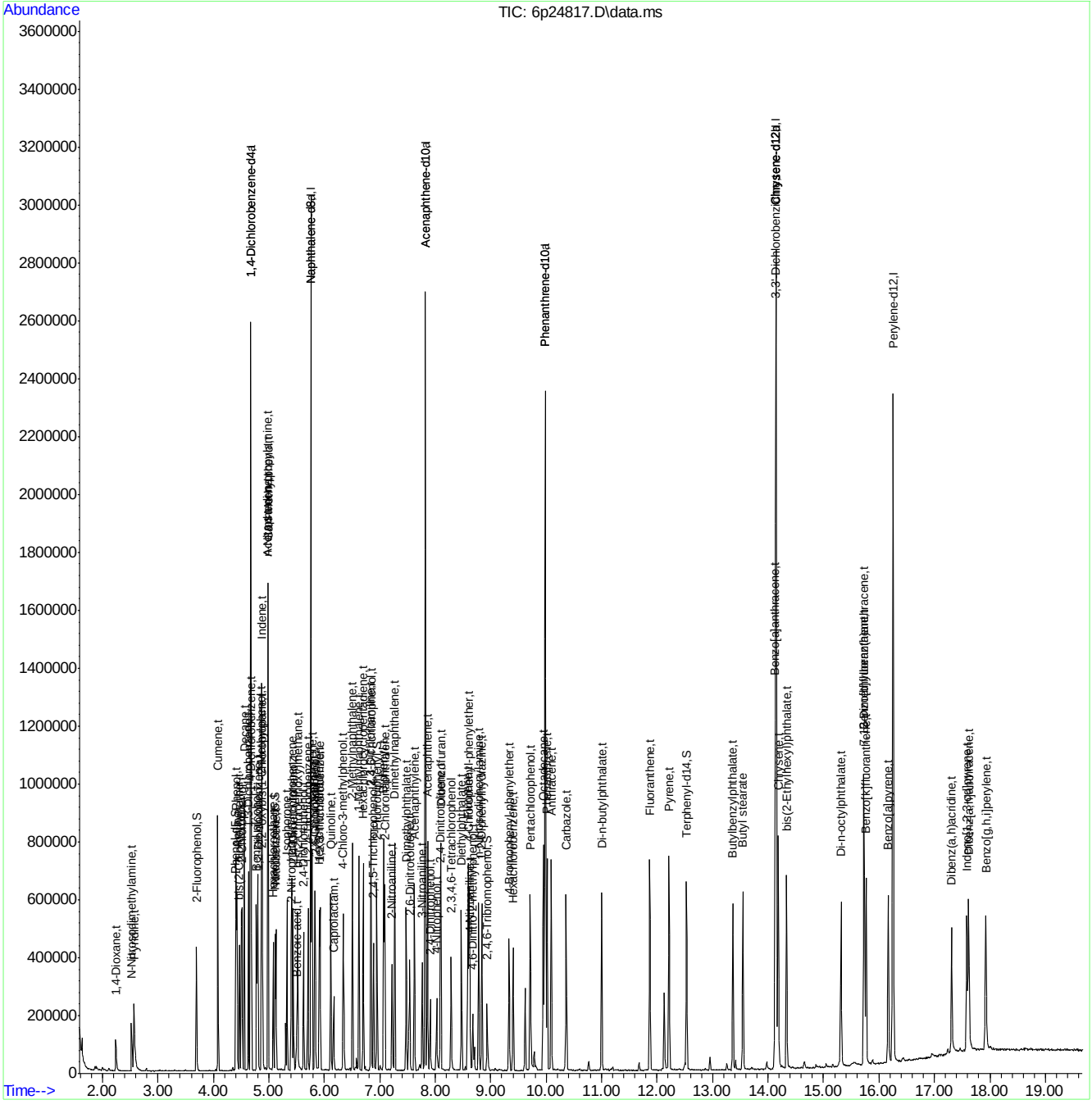
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24817.D
Acq On : 5 Apr 2016 7:04 pm
Operator : sarad
Sample : ic1155-10
Misc : op92208,e6p1155
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 05 19:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:14:19 2016
QLast Update : Tue Apr 05 19:14:19 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24818.D
Acq On : 5 Apr 2016 7:31 pm
Operator : sarad
Sample : ic1155-5
Misc : op92208,e6p1155
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 05 19:53:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:30:46 2016
QLast Update : Tue Apr 05 19:30:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	293901	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1169923	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	678874	40.00	ppm	0.00
69) Phenanthrene-d10	9.984	188	1168257	40.00	ppm	0.00
83) Chrysene-d12	14.151	240	1253126	40.00	ppm	0.00
92) Perylene-d12	16.253	264	1109044	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	293901	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	678874	40.00	ppm	0.00
106) Phenanthrene-d10a	9.984	188	1168257	40.00	ppm	0.00
110) Chrysene-d12a	14.151	240	1253126	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1169923	40.00	ppm	0.00
114) Chrysene-d12b	14.151	240	1253126	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.694	112	52998	5.10	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.20%	
8) Phenol-d5	4.400	99	71290	5.22	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.44%	
25) Nitrobenzene-d5	5.112	82	64671	5.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.08%	
51) 2-Fluorobiphenyl	6.946	172	116973	5.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.82%	
73) 2,4,6-Tribromophenol	8.936	330	12867	4.73	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.46%	
85) Terphenyl-d14	12.530	244	120167	5.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.24%	
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	2.239	88	26992	5.13	ppm	93
3) Pyridine	2.571	79	67085	5.04	ppm	97
4) N-Nitrosodimethylamine	2.528	74	40943	5.02	ppm	97
6) Indene	4.871	116	100585	5.61	ppm	95
7) Cumene	4.079	105	149808	5.33	ppm	99
9) Phenol	4.411	94	84269	5.45	ppm	96
10) Aniline	4.427	93	93900	5.81	ppm	98
11) bis(2-Chloroethyl)ether	4.470	93	60045	5.34	ppm	98
12) 2-Chlorophenol	4.518	128	58227	5.27	ppm	97
13) Decane	4.555	43	71720	5.47	ppm	98
14) 1,3-Dichlorobenzene	4.630	146	62696	5.37	ppm	99
15) 1,4-Dichlorobenzene	4.684	146	60761	5.14	ppm	98
16) Benzyl alcohol	4.775	108	38232	5.27	ppm	96
17) 1,2-Dichlorobenzene	4.807	146	58487	5.43	ppm	98
18) Acetophenone	4.983	105	84018	5.45	ppm	93
19) 2-Methylphenol	4.866	108	52381	5.45	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.882	121	19990	5.27	ppm #	86

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24818.D
Acq On : 5 Apr 2016 7:31 pm
Operator : sarad
Sample : ic1155-5
Misc : op92208,e6p1155
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 05 19:53:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:30:46 2016
QLast Update : Tue Apr 05 19:30:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.989	108	54203	5.35	ppm	98
22) n-Nitroso-di-n-propyla...	4.983	70	48701	5.35	ppm	97
23) Hexachloroethane	5.080	201	21219	5.08	ppm	93
26) Nitrobenzene	5.128	77	70579	5.26	ppm	98
27) Quinoline	6.112	129	106850	5.23	ppm	98
28) Isophorone	5.331	82	118366	5.27	ppm	97
29) 2-Nitrophenol	5.400	139	26705	5.08	ppm	87
30) 2,4-Dimethylphenol	5.438	107	48994	4.93	ppm	95
31) Benzoic acid	5.497	105	32635	4.42	ppm	89
32) bis(2-Chloroethoxy)met...	5.518	93	69956	5.28	ppm	97
33) 2,4-Dichlorophenol	5.625	162	43255	5.17	ppm	95
34) 2,6-Dichlorophenol	5.839	162	43748	5.31	ppm	99
35) 1,3,5-Trichlorobenzene	5.416	180	54353	5.48	ppm	100
36) 1,2,4-Trichlorobenzene	5.705	180	52142	5.40	ppm	98
37) 1,2,3-Trichlorobenzene	5.925	180	49577	5.32	ppm	97
38) Naphthalene	5.775	128	166524	5.37	ppm	97
39) 4-Chloroaniline	5.828	127	68997	5.52	ppm	98
40) 2,3-Dichloroaniline	6.839	161	54292	5.33	ppm	97
41) Caprolactam	6.160	55	25356	4.83	ppm	92
42) Hexachlorobutadiene	5.909	225	28985	5.32	ppm	99
43) 4-Chloro-3-methylphenol	6.342	107	49659	5.01	ppm	94
44) 2-Methylnaphthalene	6.508	141	88837	5.32	ppm	98
45) 1-Methylnaphthalene	6.620	141	93882	5.39	ppm	97
46) Dimethylnaphthalene	7.267	156	102953	5.33	ppm	97
48) Hexachlorocyclopentadiene	6.706	237	53436	9.91	ppm	97
49) 2,4,6-Trichlorophenol	6.845	196	30856	5.38	ppm	94
50) 2,4,5-Trichlorophenol	6.887	196	32962	5.30	ppm	95
52) 2-Chloronaphthalene	7.091	162	103966	5.44	ppm	99
53) Biphenyl	7.069	154	140026	5.41	ppm	97
54) 2-Nitroaniline	7.219	65	32487	4.62	ppm	99
55) Dimethylphthalate	7.476	163	116883	5.29	ppm	99
56) Acenaphthylene	7.620	152	154822	5.28	ppm	98
57) 2,6-Dinitrotoluene	7.540	165	21064	4.85	ppm	87
58) 3-Nitroaniline	7.765	138	25710	4.85	ppm	97
59) Acenaphthene	7.861	153	106082	5.34	ppm	98
60) 2,4-Dinitrophenol	7.909	184	13084	6.59	ppm	89
61) 4-Nitrophenol	8.027	109	15416	4.72	ppm	93
62) Dibenzofuran	8.101	168	144051	5.46	ppm	99
63) 2,4-Dinitrotoluene	8.091	165	27879	4.86	ppm	99
64) 2,3,4,6-Tetrachlorophenol	8.283	232	25662	4.82	ppm	92
65) Diethylphthalate	8.471	149	110157	5.17	ppm	98
66) Fluorene	8.588	166	118409	5.36	ppm	95
67) 4-Chlorophenyl-phenyle...	8.610	204	61600	5.33	ppm	99
68) 4-Nitroaniline	8.620	138	25456	4.84	ppm	98
70) 4,6-Dinitro-2-methylph...	8.674	198	11513	3.77	ppm	92
71) n-Nitrosodiphenylamine	8.781	169	84960	5.35	ppm	98
72) 1,2-Diphenylhydrazine	8.840	77	132500	5.19	ppm	97
74) 4-Bromophenyl-phenylether	9.332	248	32615	5.26	ppm	94
75) Hexachlorobenzene	9.407	284	34520	5.47	ppm	97
76) Pentachlorophenol	9.717	266	36808	9.28	ppm	98

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24818.D
Acq On : 5 Apr 2016 7:31 pm
Operator : sarad
Sample : ic1155-5
Misc : op92208,e6p1155
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 05 19:53:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:30:46 2016
QLast Update : Tue Apr 05 19:30:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.016	178	179207	5.35	ppm	97
78) Anthracene	10.091	178	176253	5.32	ppm	99
79) Carbazole	10.359	167	153763	5.27	ppm	98
80) Di-n-butylphthalate	11.000	149	175878	5.09	ppm	100
81) Fluoranthene	11.867	202	185565	5.11	ppm	98
82) Octadecane	9.947	57	81354	5.17	ppm	98
84) Pyrene	12.215	202	206028	5.27	ppm	99
86) Butylbenzylphthalate	13.365	149	70765	4.57	ppm	95
87) Butyl stearate	13.546	56	50379	4.79	ppm	97
88) Benzo[a]anthracene	14.129	228	175786	4.93	ppm	98
89) 3,3'-Dichlorobenzidine	14.140	252	54555	4.75	ppm	93
90) Chrysene	14.183	228	179798	5.06	ppm	99
91) bis(2-Ethylhexyl)phtha...	14.333	149	99309	4.70	ppm	98
93) Di-n-octylphthalate	15.317	149	156883	4.61	ppm	98
94) Benzo[b]fluoranthene	15.729	252	175343	5.39	ppm	98
95) Benzo[k]fluoranthene	15.766	252	168048	5.42	ppm	100
96) Benzo[a]pyrene	16.167	252	145391	5.11	ppm	100
97) Indeno[1,2,3-cd]pyrene	17.585	276	128021	4.78	ppm	90
98) Dibenz(a,h)acridine	17.307	279	116618	4.72	ppm	100
99) Dibenz[a,h]anthracene	17.617	278	147608	5.09	ppm	98
100) 7,12-Dimethylbenz(a)an...	15.734	256	62628	4.81	ppm	99
101) Benzo[g,h,i]perylene	17.922	276	143288	4.86	ppm	93

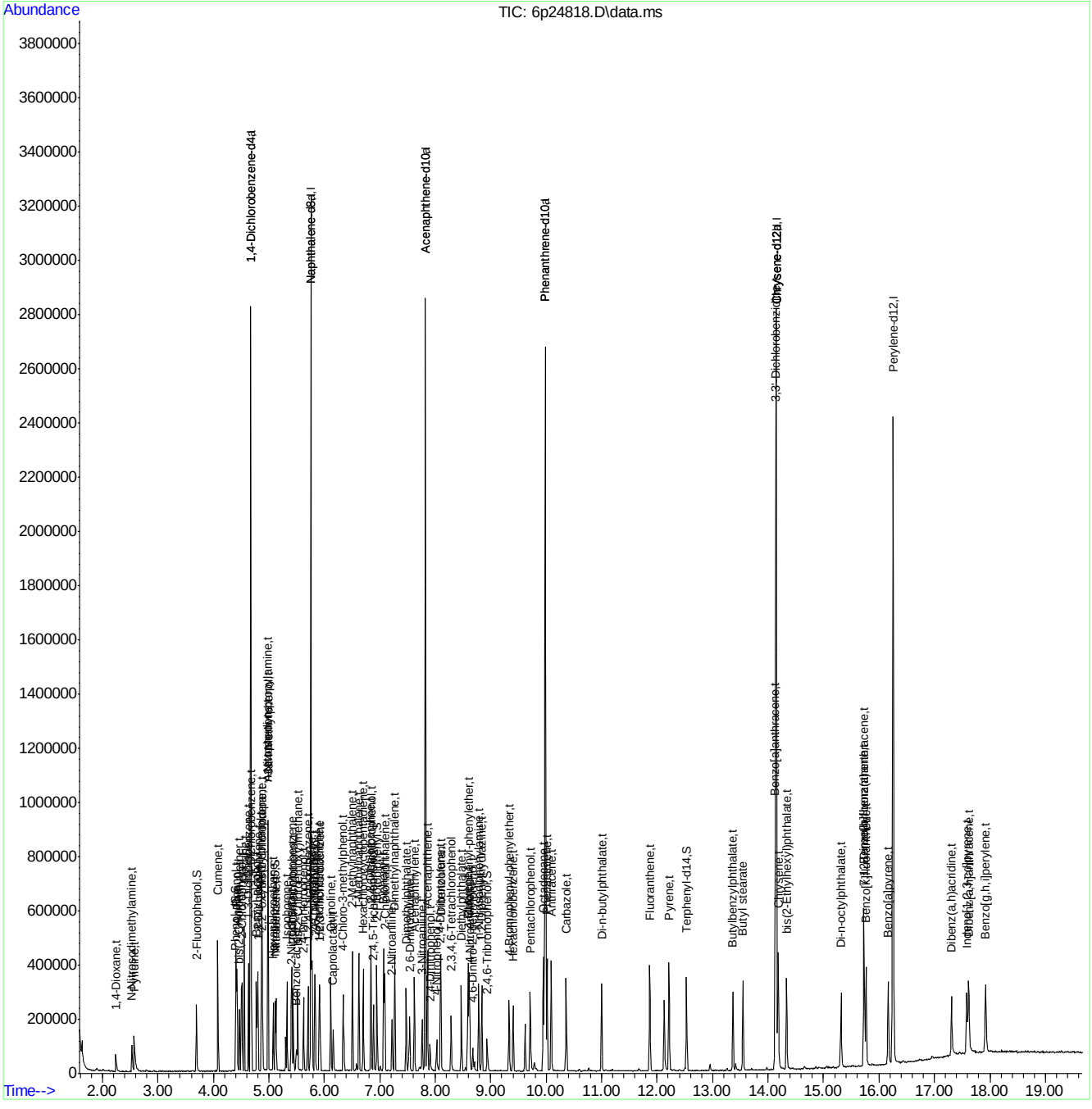
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24818.D
Acq On : 5 Apr 2016 7:31 pm
Operator : sarad
Sample : ic1155-5
Misc : op92208,e6p1155
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 05 19:53:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:30:46 2016
QLast Update : Tue Apr 05 19:30:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24819a.D
Acq On : 5 Apr 2016 8:15 pm
Operator : sarad
Sample : icc1155-50
Misc : op92208,e6p1155
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 20:44:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:53:57 2016
QLast Update : Tue Apr 05 19:53:57 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	265196	40.00	ppm	0.00
24) Naphthalene-d8	5.764	136	1077189	40.00	ppm	0.00
47) Acenaphthene-d10	7.823	164	614474	40.00	ppm	0.00
69) Phenanthrene-d10	9.990	188	1057811	40.00	ppm	0.00
83) Chrysene-d12	14.161	240	1117116	40.00	ppm	0.01
92) Perylene-d12	16.264	264	1059578	40.00	ppm	0.01
102) 1,4-Dichlorobenzene-d4a	4.673	152	265196	40.00	ppm	0.00
104) Acenaphthene-d10a	7.823	164	614474	40.00	ppm	0.00
106) Phenanthrene-d10a	9.990	188	1057811	40.00	ppm	0.00
110) Chrysene-d12a	14.161	240	1117116	40.00	ppm	0.01
112) Naphthalene-d8a	5.764	136	1077189	40.00	ppm	0.00
114) Chrysene-d12b	14.161	240	1117116	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.694	112	468575	49.79	ppm	0.00
Spiked Amount 50.000			Recovery	=	99.58%	
8) Phenol-d5	4.406	99	607238	48.99	ppm	0.00
Spiked Amount 50.000			Recovery	=	97.98%	
25) Nitrobenzene-d5	5.112	82	581222	49.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	98.34%	
51) 2-Fluorobiphenyl	6.957	172	962050	48.57	ppm	0.01
Spiked Amount 50.000			Recovery	=	97.14%	
73) 2,4,6-Tribromophenol	8.947	330	132928	54.43	ppm	0.01
Spiked Amount 50.000			Recovery	=	108.86%	
85) Terphenyl-d14	12.541	244	1049154	49.98	ppm	0.01
Spiked Amount 50.000			Recovery	=	99.96%	
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	2.234	88	234862	49.28	ppm	99
3) Pyridine	2.555	79	585092	48.70	ppm	98
4) N-Nitrosodimethylamine	2.518	74	362186	49.18	ppm	99
6) Indene	4.876	116	769633	46.74	ppm	99
7) Cumene	4.079	105	1259820	49.22	ppm	99
9) Phenol	4.416	94	689768	48.83	ppm	93
10) Aniline	4.427	93	647929	43.41	ppm	98
11) bis(2-Chloroethyl)ether	4.475	93	493880	48.22	ppm	98
12) 2-Chlorophenol	4.518	128	493167	49.11	ppm	97
13) Decane	4.555	43	566875	47.30	ppm	99
14) 1,3-Dichlorobenzene	4.630	146	513864	48.28	ppm	99
15) 1,4-Dichlorobenzene	4.684	146	514666	48.07	ppm	99
16) Benzyl alcohol	4.780	108	332797	50.49	ppm	97
17) 1,2-Dichlorobenzene	4.807	146	476233	48.41	ppm	99
18) Acetophenone	4.989	105	650184	46.13	ppm	99
19) 2-Methylphenol	4.871	108	414793	47.21	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.887	121	167374	48.53	ppm	94

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24819a.D
Acq On : 5 Apr 2016 8:15 pm
Operator : sarad
Sample : icc1155-50
Misc : op92208,e6p1155
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 20:44:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:53:57 2016
QLast Update : Tue Apr 05 19:53:57 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	4.994	108	430190	46.62	ppm		98
22) n-Nitroso-di-n-propyla...	4.994	70	382026	46.03	ppm		96
23) Hexachloroethane	5.080	201	185374	49.04	ppm		94
26) Nitrobenzene	5.128	77	605216	48.64	ppm		98
27) Quinoline	6.128	129	914412	48.31	ppm		98
28) Isophorone	5.336	82	1006385	48.30	ppm		98
29) 2-Nitrophenol	5.406	139	252226	51.97	ppm		88
30) 2,4-Dimethylphenol	5.443	107	483458	52.90	ppm		99
31) Benzoic acid	5.561	105	402750	60.21	ppm		97
32) bis(2-Chloroethoxy)met...	5.523	93	588793	47.88	ppm		99
33) 2,4-Dichlorophenol	5.625	162	382276	49.39	ppm		98
34) 2,6-Dichlorophenol	5.844	162	368508	48.12	ppm		98
35) 1,3,5-Trichlorobenzene	5.416	180	440827	47.60	ppm		99
36) 1,2,4-Trichlorobenzene	5.705	180	431956	48.00	ppm		99
37) 1,2,3-Trichlorobenzene	5.925	180	413093	47.73	ppm		98
38) Naphthalene	5.780	128	1376228	47.67	ppm		99
39) 4-Chloroaniline	5.834	127	551493	47.23	ppm		96
40) 2,3-Dichloroaniline	6.845	161	454566	48.00	ppm		99
41) Caprolactam	6.208	55	239075	49.74	ppm		95
42) Hexachlorobutadiene	5.909	225	242942	47.97	ppm		97
43) 4-Chloro-3-methylphenol	6.352	107	454639	49.77	ppm		99
44) 2-Methylnaphthalene	6.513	141	745663	48.02	ppm		99
45) 1-Methylnaphthalene	6.625	141	771481	47.60	ppm		99
46) Dimethylnaphthalene	7.278	156	853841	47.60	ppm		100
48) Hexachlorocyclopentadiene	6.705	237	539686	110.73	ppm		99
49) 2,4,6-Trichlorophenol	6.855	196	266000	50.72	ppm		97
50) 2,4,5-Trichlorophenol	6.898	196	290828	51.26	ppm		97
52) 2-Chloronaphthalene	7.096	162	850490	48.52	ppm		97
53) Biphenyl	7.075	154	1161201	49.02	ppm		98
54) 2-Nitroaniline	7.230	65	336737	53.50	ppm		98
55) Dimethylphthalate	7.486	163	983692	48.75	ppm		100
56) Acenaphthylene	7.631	152	1325622	49.52	ppm		100
57) 2,6-Dinitrotoluene	7.551	165	219498	56.04	ppm		94
58) 3-Nitroaniline	7.775	138	251127	52.57	ppm		96
59) Acenaphthene	7.871	153	878760	48.38	ppm		98
60) 2,4-Dinitrophenol	7.920	184	253973	148.61	ppm	#	66
61) 4-Nitrophenol	8.037	109	166337	56.77	ppm		99
62) Dibenzofuran	8.112	168	1153903	47.70	ppm		98
63) 2,4-Dinitrotoluene	8.107	165	283540	54.81	ppm		94
64) 2,3,4,6-Tetrachlorophenol	8.294	232	254325	53.06	ppm		97
65) Diethylphthalate	8.487	149	978554	50.53	ppm		98
66) Fluorene	8.599	166	995814	49.29	ppm		98
67) 4-Chlorophenyl-phenyle...	8.615	204	507023	47.98	ppm		96
68) 4-Nitroaniline	8.647	138	253923	53.61	ppm		99
70) 4,6-Dinitro-2-methylph...	8.690	198	182820	68.47	ppm		95
71) n-Nitrosodiphenylamine	8.797	169	724519	49.90	ppm		99
72) 1,2-Diphenylhydrazine	8.850	77	1176176	50.60	ppm		98
74) 4-Bromophenyl-phenylether	9.337	248	282194	49.91	ppm		98
75) Hexachlorobenzene	9.417	284	283390	48.91	ppm		98
76) Pentachlorophenol	9.722	266	391168	110.01	ppm		99

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24819a.D
Acq On : 5 Apr 2016 8:15 pm
Operator : sarad
Sample : icc1155-50
Misc : op92208,e6p1155
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 20:44:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:53:57 2016
QLast Update : Tue Apr 05 19:53:57 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.027	178	1466863	47.86	ppm	98
78) Anthracene	10.102	178	1498893	49.51	ppm	99
79) Carbazole	10.375	167	1328040	49.92	ppm	99
80) Di-n-butylphthalate	11.011	149	1621921	51.72	ppm	100
81) Fluoranthene	11.878	202	1664821	50.48	ppm	98
82) Octadecane	9.957	57	730329	50.97	ppm	99
84) Pyrene	12.225	202	1752305	49.90	ppm	99
86) Butylbenzylphthalate	13.381	149	741500	54.41	ppm	96
87) Butyl stearate	13.557	56	506049	54.30	ppm	99
88) Benzo[a]anthracene	14.145	228	1555724	49.07	ppm	99
89) 3,3'-Dichlorobenzidine	14.156	252	530252	52.18	ppm	94
90) Chrysene	14.204	228	1577256	49.69	ppm	99
91) bis(2-Ethylhexyl)phtha...	14.343	149	1023235	54.78	ppm	98
93) Di-n-octylphthalate	15.327	149	1752966	54.56	ppm	100
94) Benzo[b]fluoranthene	15.750	252	1583572	50.41	ppm	99
95) Benzo[k]fluoranthene	15.793	252	1486830	49.63	ppm	99
96) Benzo[a]pyrene	16.189	252	1406798	51.62	ppm	99
97) Indeno[1,2,3-cd]pyrene	17.611	276	1413884	55.63	ppm	95
98) Dibenz(a,h)acridine	17.333	279	1256431	53.64	ppm	100
99) Dibenz[a,h]anthracene	17.643	278	1456015	52.38	ppm	99
100) 7,12-Dimethylbenz(a)an...	15.761	256	688484	55.66	ppm	97
101) Benzo[g,h,i]perylene	17.959	276	1461348	52.05	ppm	99

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

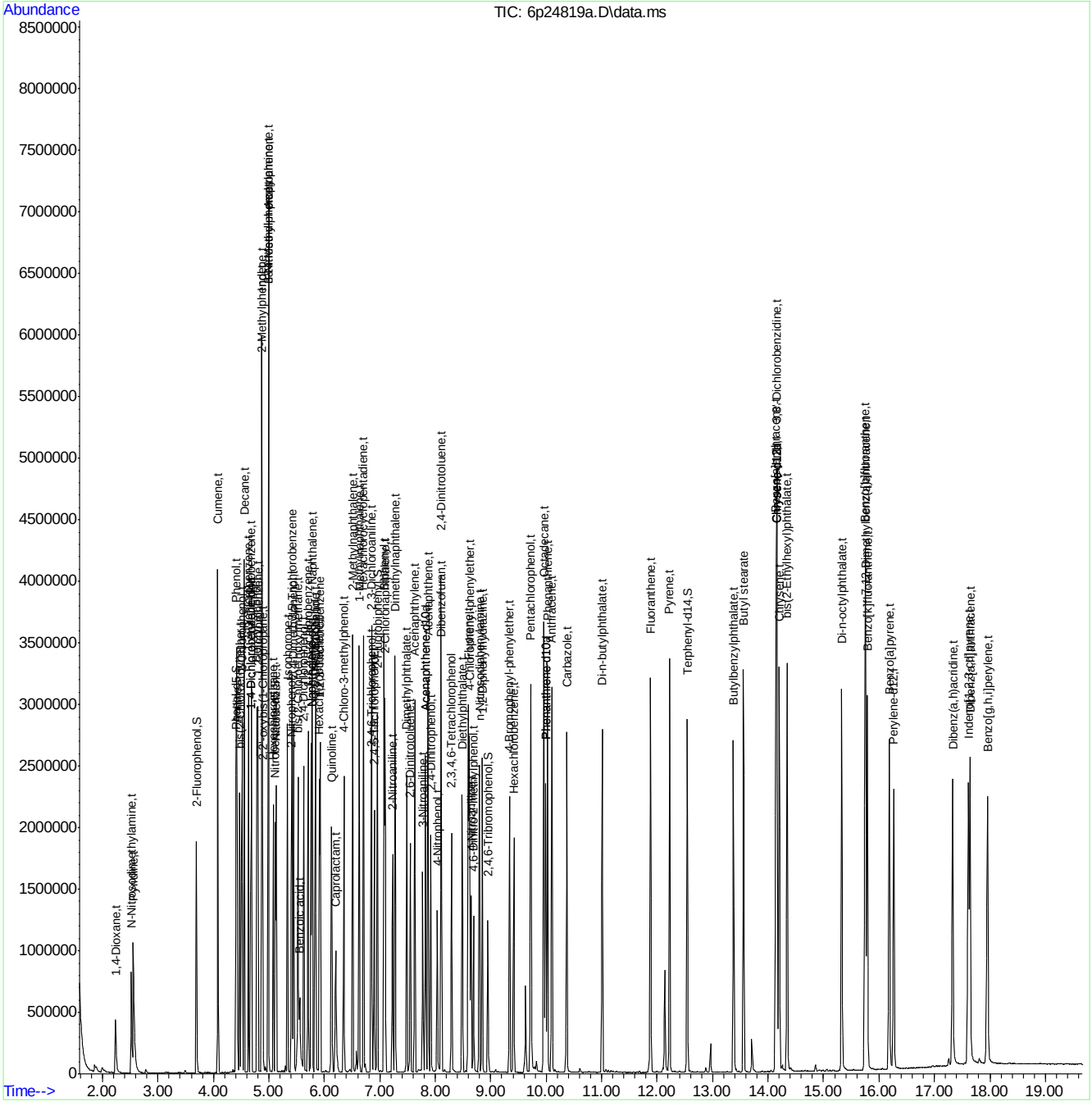
7.6.22
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1155\
Data File : 6p24819a.D
Acq On : 5 Apr 2016 8:15 pm
Operator : sarad
Sample : icc1155-50
Misc : op92208,e6p1155
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 20:44:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue Apr 05 19:53:57 2016
QLast Update : Tue Apr 05 19:53:57 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24823.D
Acq On : 5 Apr 2016 9:30 pm
Operator : sarad
Sample : ic1156-100
Misc : op92208,e6p1156
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 08:46:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	249153	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1023612	40.00	ppm	0.00
47) Acenaphthene-d10	7.823	164	518883	40.00	ppm	0.00
69) Phenanthrene-d10	9.984	188	994813	40.00	ppm	0.00
83) Chrysene-d12	14.151	240	1065203	40.00	ppm	0.00
92) Perylene-d12	16.263	264	1045755	40.00	ppm	0.01
102) 1,4-Dichlorobenzene-d4a	4.673	152	249153	40.00	ppm	0.00
104) Acenaphthene-d10a	7.823	164	518883	40.00	ppm	0.00
106) Phenanthrene-d10a	9.984	188	994813	40.00	ppm	0.00
110) Chrysene-d12a	14.151	240	1065203	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1023612	40.00	ppm	0.00
114) Chrysene-d12b	14.151	240	1065203	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.637	230	1355016	100.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.08%	
109) 1-Chlorooctadecane	11.846	57	814273	99.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	199.88%	
Target Compounds						Qvalue
103) Benzaldehyde	4.347	105	564013	100.04	ppm	100
105) 1,2,4,5-Tetrachloroben...	6.711	216	722127	100.02	ppm	100
107) Atrazine	9.642	215	271131	100.00	ppm	100
111) benzidine	12.140	184	1023619	100.00	ppm	100
113) Hydroquinone	6.192	110	898771	100.00	ppm	100

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

7.6.23

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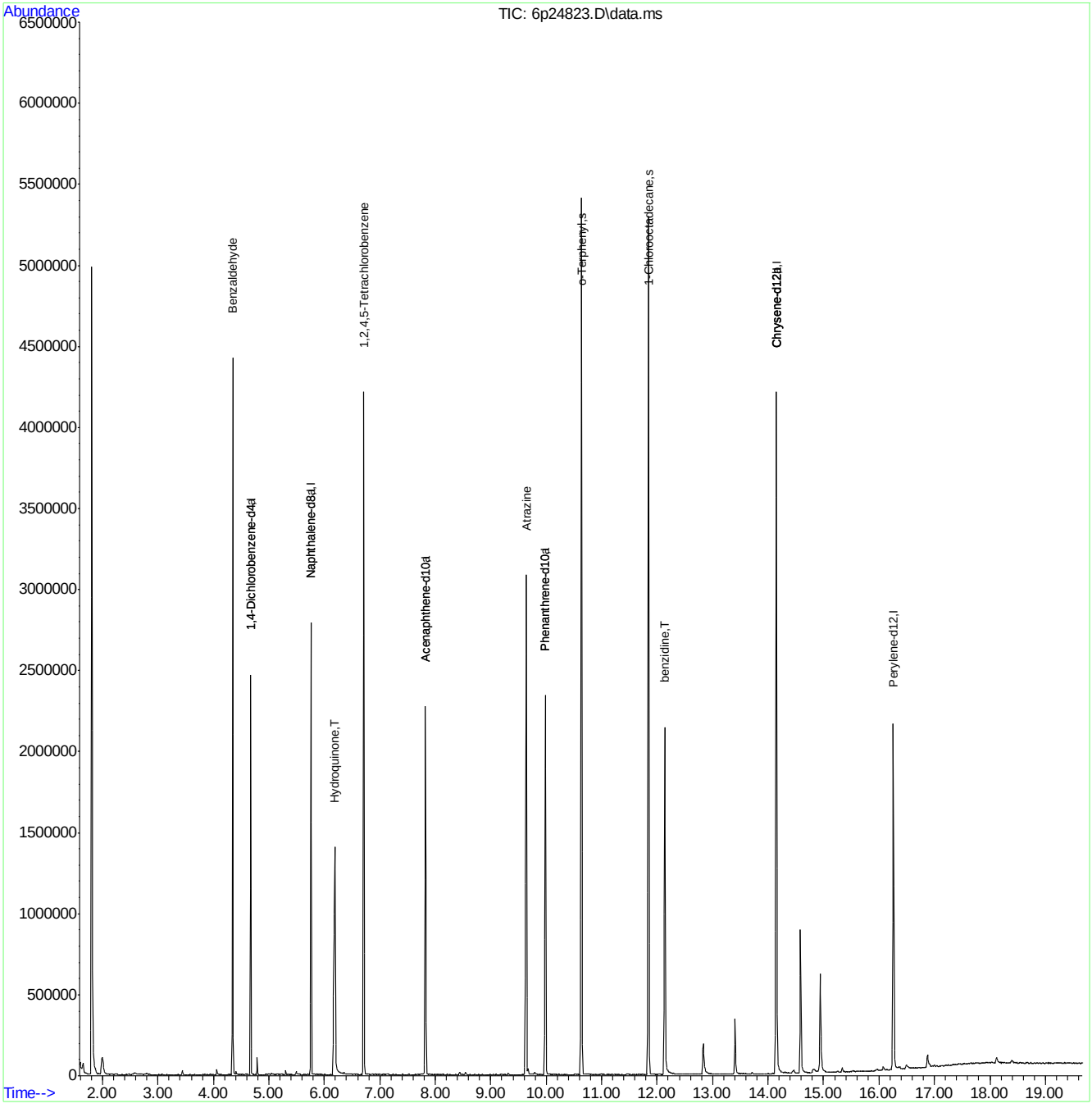
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24823.D
Acq On : 5 Apr 2016 9:30 pm
Operator : sarad
Sample : ic1156-100
Misc : op92208,e6p1156
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 08:46:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration



M6P1155.M Wed Apr 06 08:47:05 2016 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24824.D
Acq On : 5 Apr 2016 10:01 pm
Operator : sarad
Sample : ic1156-80
Misc : op92208,e6p1156
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 06 08:47:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration

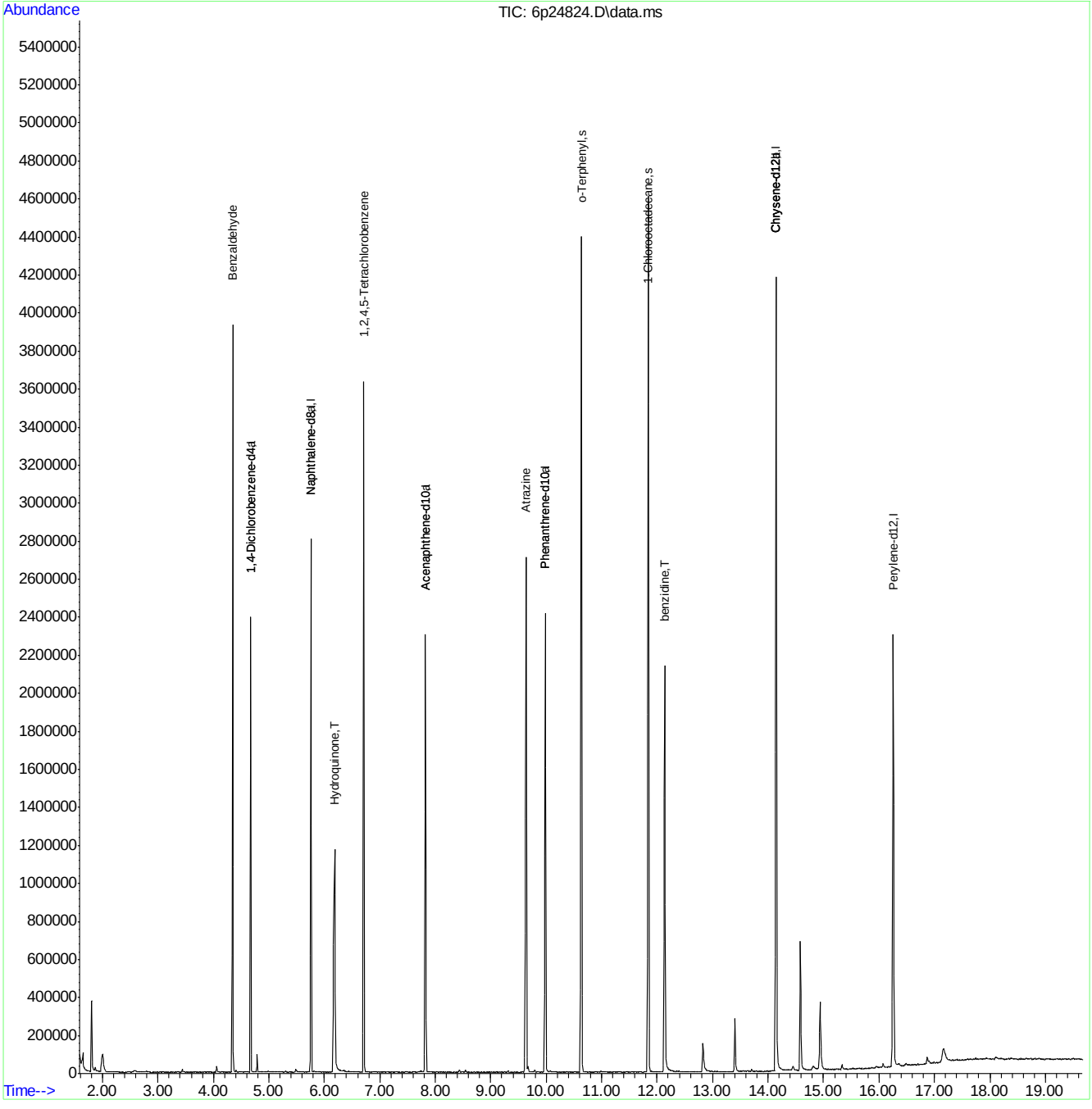
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	249978	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1045711	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	533376	40.00	ppm	0.00
69) Phenanthrene-d10	9.984	188	1030315	40.00	ppm	0.00
83) Chrysene-d12	14.145	240	1116009	40.00	ppm	0.00
92) Perylene-d12	16.258	264	1093239	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	249978	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	533376	40.00	ppm	0.00
106) Phenanthrene-d10a	9.984	188	1030315	40.00	ppm	0.00
110) Chrysene-d12a	14.145	240	1116009	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1045711	40.00	ppm	0.00
114) Chrysene-d12b	14.145	240	1116009	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.637	230	1126512	80.31	ppm	0.00
Spiked Amount 50.000			Recovery	=	160.62%	
109) 1-Chlorooctadecane	11.840	57	694083	82.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	164.50%	
Target Compounds						Qvalue
103) Benzaldehyde	4.347	105	553275	97.81	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.711	216	622238	83.84	ppm	99
107) Atrazine	9.637	215	227081	80.87	ppm	97
111) benzidine	12.134	184	1029469	95.99	ppm	99
113) Hydroquinone	6.187	110	756312	82.37	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24824.D
Acq On : 5 Apr 2016 10:01 pm
Operator : sarad
Sample : ic1156-80
Misc : op92208,e6p1156
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 06 08:47:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24825.D
Acq On : 5 Apr 2016 10:28 pm
Operator : sarad
Sample : icc1156-50
Misc : op92208,e6p1156
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 06 08:48:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration

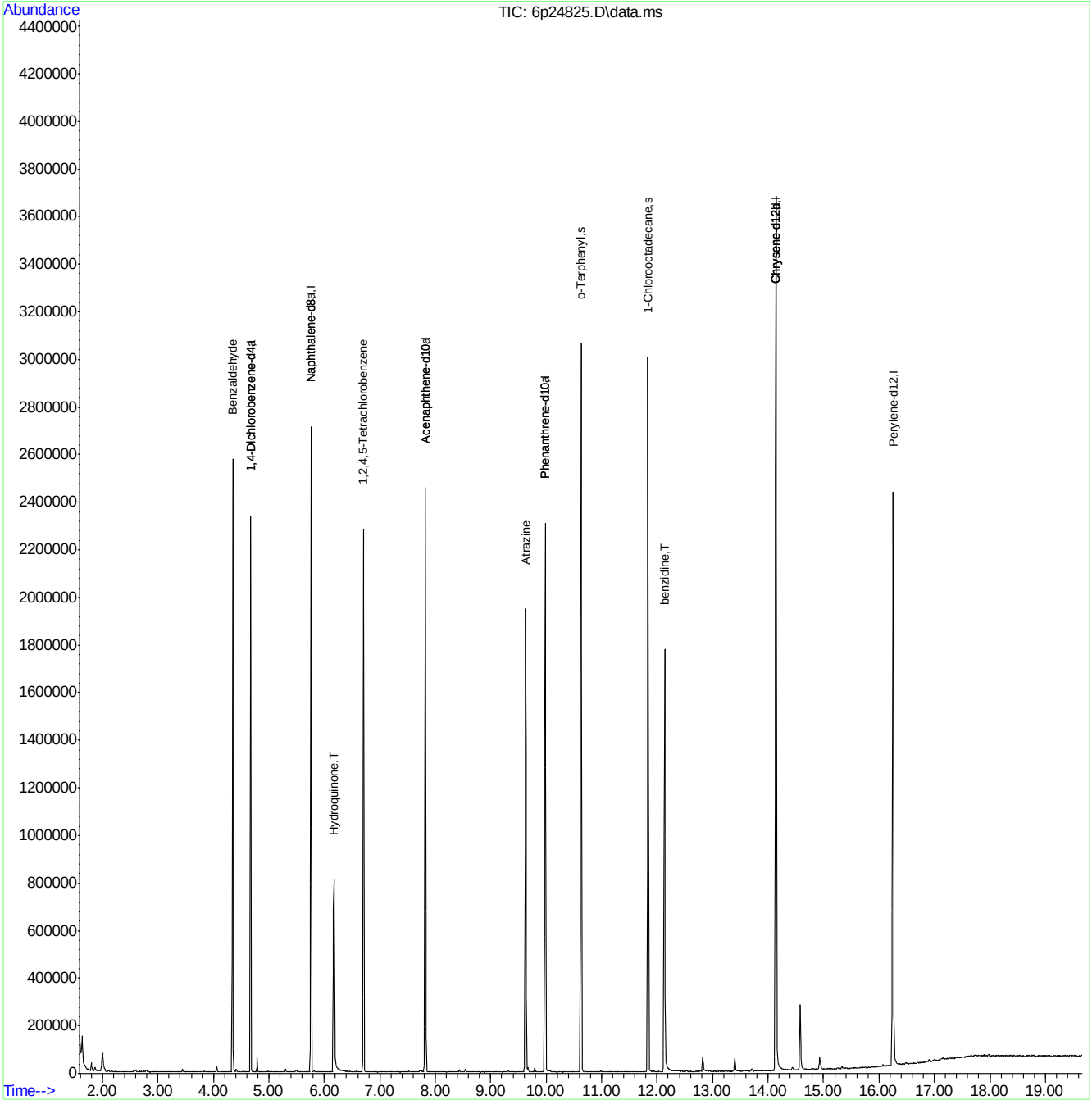
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	253302	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1044241	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	533139	40.00	ppm	0.00
69) Phenanthrene-d10	9.984	188	1036777	40.00	ppm	0.00
83) Chrysene-d12	14.145	240	1140042	40.00	ppm	0.00
92) Perylene-d12	16.253	264	1119065	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	253302	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	533139	40.00	ppm	0.00
106) Phenanthrene-d10a	9.984	188	1036777	40.00	ppm	0.00
110) Chrysene-d12a	14.145	240	1140042	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1044241	40.00	ppm	0.00
114) Chrysene-d12b	14.145	240	1140042	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.631	230	737849	52.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	104.54%	
109) 1-Chlorooctadecane	11.835	57	457254	53.85	ppm	-0.01
Spiked Amount 50.000			Recovery	=	107.70%	
Target Compounds						Qvalue
103) Benzaldehyde	4.347	105	381423	66.55	ppm	96
105) 1,2,4,5-Tetrachloroben...	6.705	216	397579	53.60	ppm	99
107) Atrazine	9.631	215	147915	52.35	ppm	97
111) benzidine	12.134	184	852949	77.86	ppm	99
113) Hydroquinone	6.176	110	474529	51.75	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24825.D
Acq On : 5 Apr 2016 10:28 pm
Operator : sarad
Sample : icc1156-50
Misc : op92208,e6p1156
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 06 08:48:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24826.D
Acq On : 5 Apr 2016 10:55 pm
Operator : sarad
Sample : ic1156-25
Misc : op92208,e6p1156
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 06 08:48:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	259375	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1089131	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	551643	40.00	ppm	0.00
69) Phenanthrene-d10	9.984	188	1057593	40.00	ppm	0.00
83) Chrysene-d12	14.146	240	1174732	40.00	ppm	0.00
92) Perylene-d12	16.253	264	1140031	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	259375	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	551643	40.00	ppm	0.00
106) Phenanthrene-d10a	9.984	188	1057593	40.00	ppm	0.00
110) Chrysene-d12a	14.146	240	1174732	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1089131	40.00	ppm	0.00
114) Chrysene-d12b	14.146	240	1174732	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.626	230	389413	27.04	ppm	-0.01
Spiked Amount 50.000			Recovery	=	54.08%	
109) 1-Chlorooctadecane	11.835	57	231324	26.71	ppm	-0.01
Spiked Amount 50.000			Recovery	=	53.42%	
Target Compounds						Qvalue
103) Benzaldehyde	4.347	105	202126	34.44	ppm	96
105) 1,2,4,5-Tetrachloroben...	6.706	216	212793	27.72	ppm	99
107) Atrazine	9.626	215	76645	26.59	ppm	98
111) benzidine	12.134	184	429052	38.01	ppm	100
113) Hydroquinone	6.165	110	231598	24.22	ppm	99

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

7.6.26

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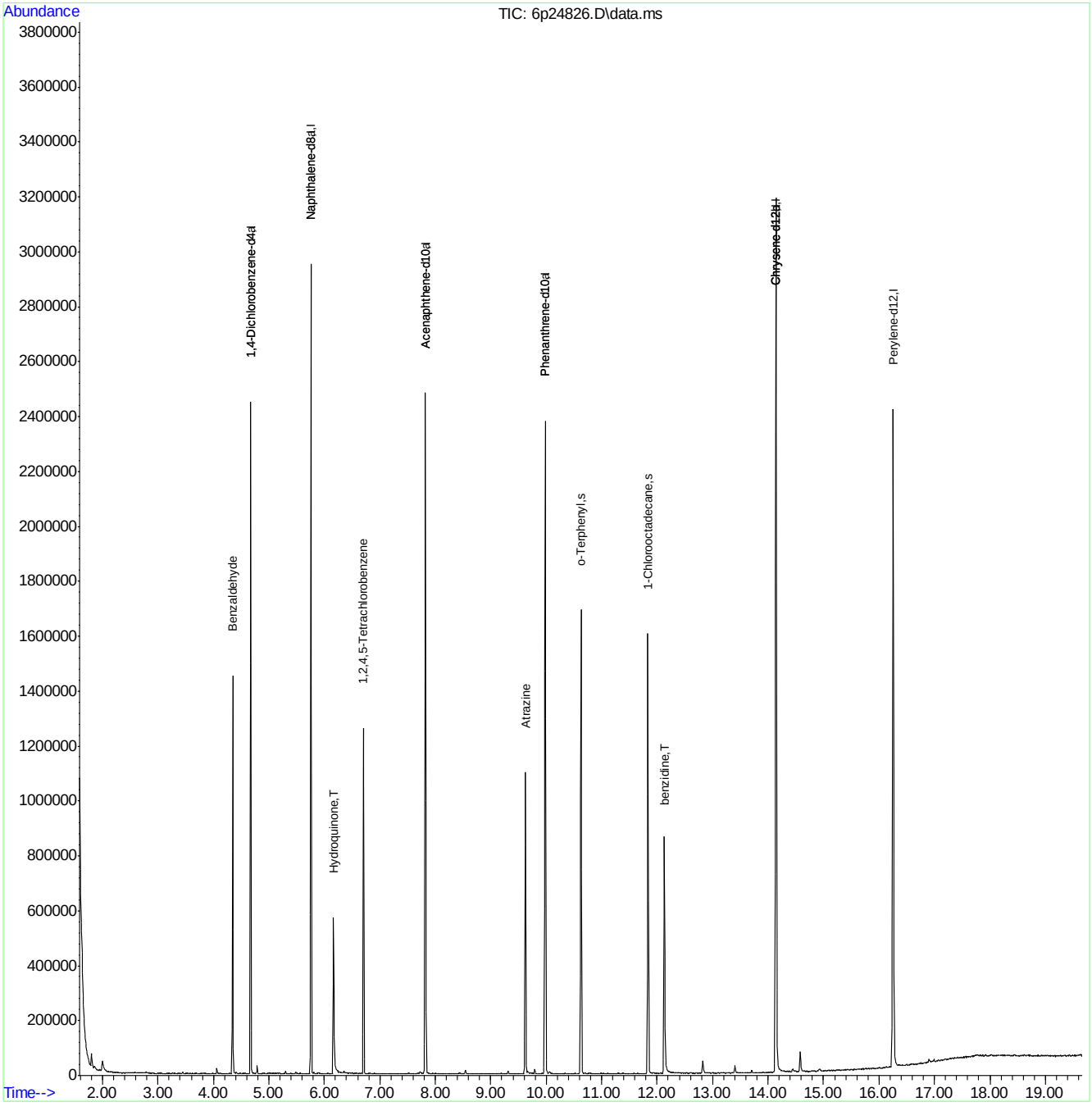
SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24826.D
Acq On : 5 Apr 2016 10:55 pm
Operator : sarad
Sample : ic1156-25
Misc : op92208,e6p1156
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 06 08:48:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24827.D
Acq On : 5 Apr 2016 11:23 pm
Operator : sarad
Sample : ic1156-10
Misc : op92208,e6p1156
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 06 08:49:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration

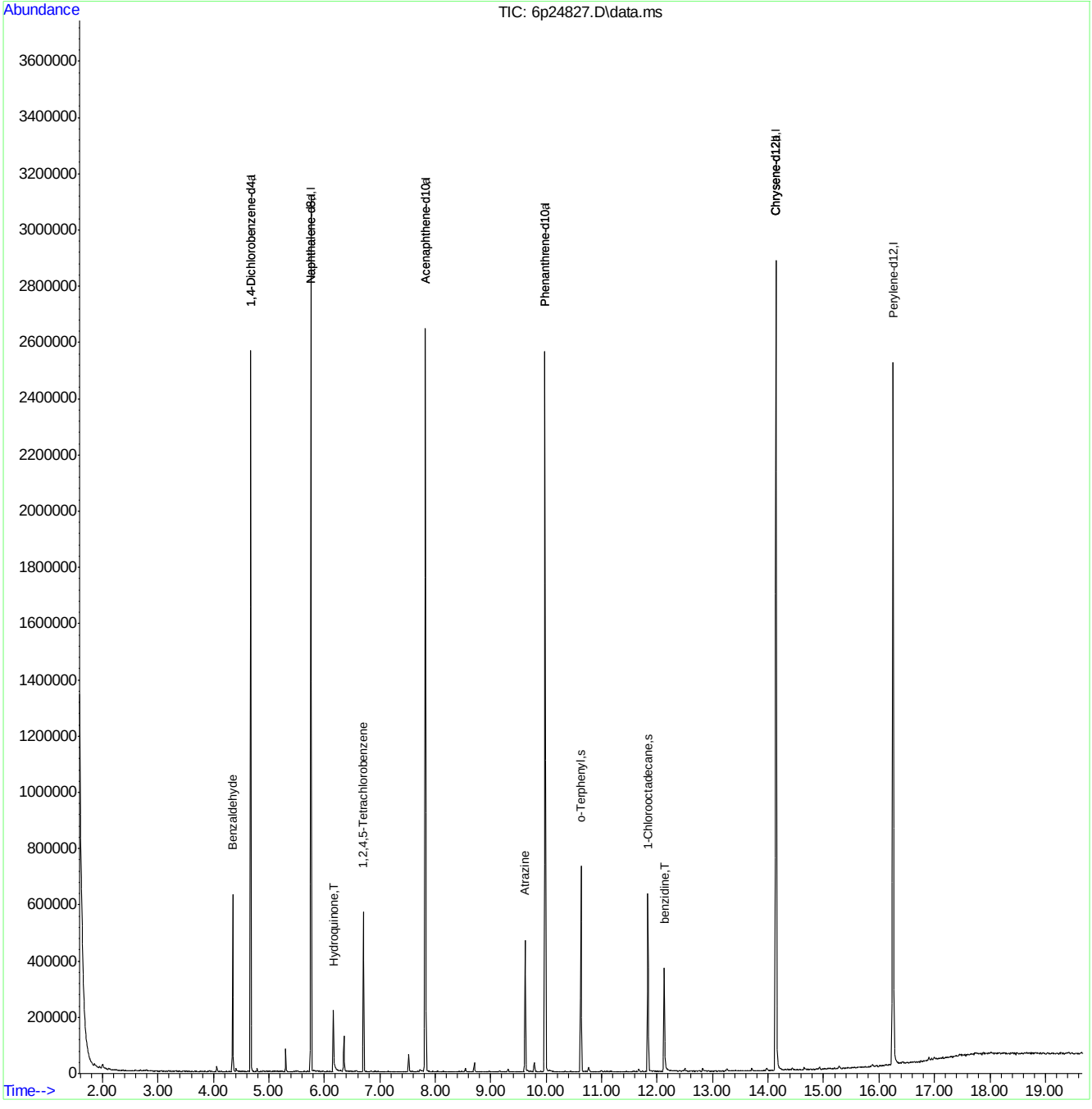
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	278465	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1147069	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	589323	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	1115532	40.00	ppm	0.00
83) Chrysene-d12	14.145	240	1250289	40.00	ppm	0.00
92) Perylene-d12	16.253	264	1183037	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	278465	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	589323	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	1115532	40.00	ppm	0.00
110) Chrysene-d12a	14.145	240	1250289	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1147069	40.00	ppm	0.00
114) Chrysene-d12b	14.145	240	1250289	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	10.626	230	168088	11.07	ppm	-0.01
Spiked Amount 50.000			Recovery = 22.14%			
109) 1-Chlorooctadecane	11.835	57	93116	10.19	ppm	-0.01
Spiked Amount 50.000			Recovery = 20.38%			
Target Compounds						Qvalue
103) Benzaldehyde	4.347	105	87342	13.86	ppm	98
105) 1,2,4,5-Tetrachloroben...	6.705	216	91296	11.13	ppm	99
107) Atrazine	9.620	215	30132	9.91	ppm	99
111) benzidine	12.129	184	179309	14.92	ppm	99
113) Hydroquinone	6.165	110	85497	8.49	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24827.D
Acq On : 5 Apr 2016 11:23 pm
Operator : sarad
Sample : ic1156-10
Misc : op92208,e6p1156
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 06 08:49:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24828.D
Acq On : 5 Apr 2016 11:50 pm
Operator : sarad
Sample : ic1156-5
Misc : op92208,e6p1156
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 06 08:49:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	273348	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1115965	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	575993	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	1099104	40.00	ppm	0.00
83) Chrysene-d12	14.145	240	1207239	40.00	ppm	0.00
92) Perylene-d12	16.253	264	1150906	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	273348	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	575993	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	1099104	40.00	ppm	0.00
110) Chrysene-d12a	14.145	240	1207239	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1115965	40.00	ppm	0.00
114) Chrysene-d12b	14.145	240	1207239	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.626	230	90332	6.04	ppm	-0.01
Spiked Amount 50.000			Recovery	=	12.08%	
109) 1-Chlorooctadecane	11.835	57	47477	5.27	ppm	-0.01
Spiked Amount 50.000			Recovery	=	10.54%	
Target Compounds						Qvalue
103) Benzaldehyde	4.347	105	47083	7.61	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.705	216	49996	6.24	ppm	98
107) Atrazine	9.620	215	15380	5.13	ppm	95
111) benzidine	12.129	184	89744	7.74	ppm	99
113) Hydroquinone	6.165	110	37548	3.83	ppm	93

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

7.6.28

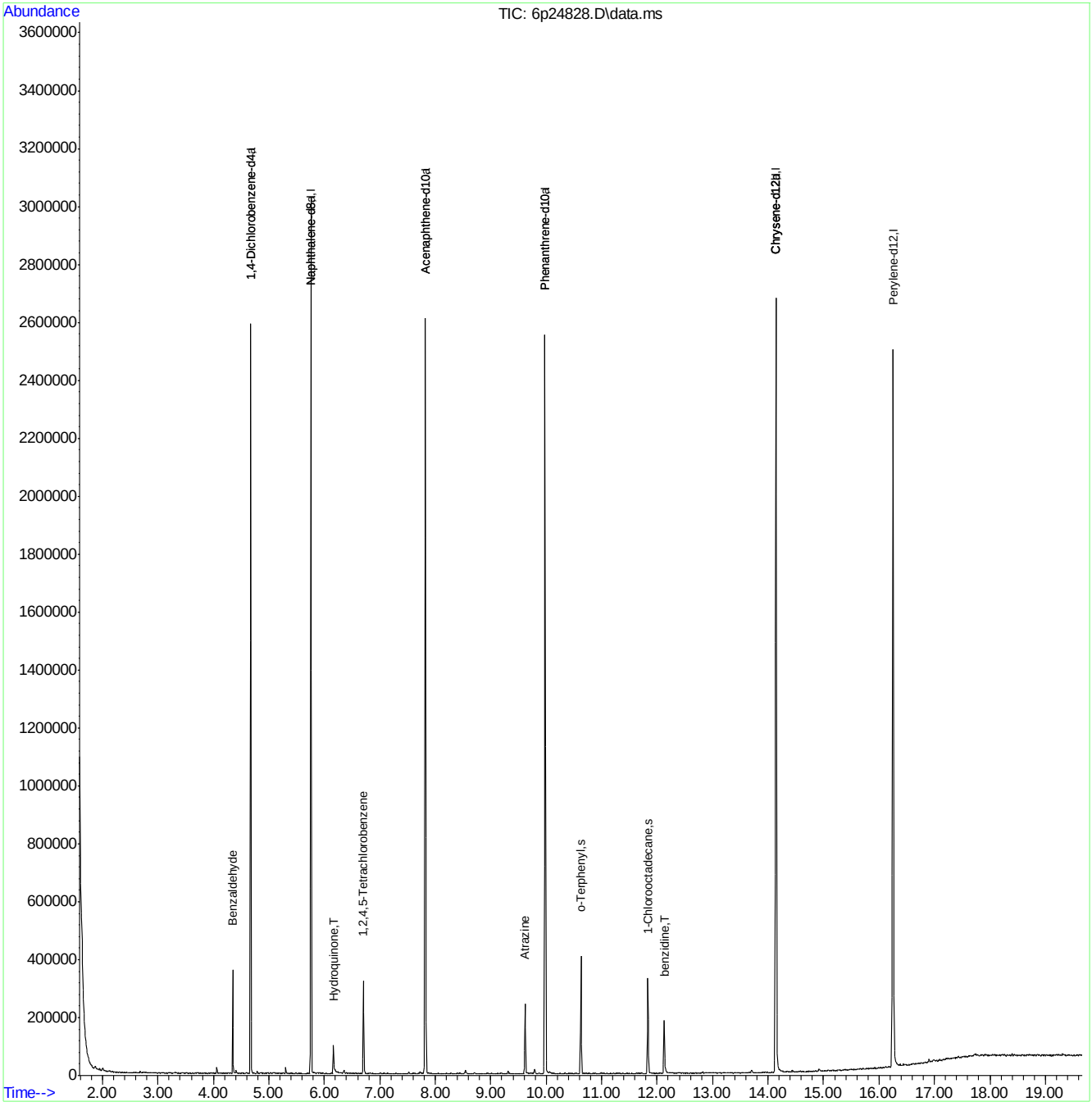
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24828.D
Acq On : 5 Apr 2016 11:50 pm
Operator : sarad
Sample : ic1156-5
Misc : op92208,e6p1156
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 06 08:49:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24829.D
Acq On : 6 Apr 2016 12:17 am
Operator : sarad
Sample : ic1156-2
Misc : op92208,e6p1156
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 08:50:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	273196	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1125385	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	580306	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	1119807	40.00	ppm	0.00
83) Chrysene-d12	14.146	240	1243268	40.00	ppm	0.00
92) Perylene-d12	16.253	264	1177302	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	273196	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	580306	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	1119807	40.00	ppm	0.00
110) Chrysene-d12a	14.146	240	1243268	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1125385	40.00	ppm	0.00
114) Chrysene-d12b	14.146	240	1243268	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.626	230	34877	2.29	ppm	-0.01
Spiked Amount 50.000			Recovery	=	4.58%	
109) 1-Chlorooctadecane	11.830	57	16142	1.76	ppm	-0.02
Spiked Amount 50.000			Recovery	=	3.52%	
Target Compounds						Qvalue
103) Benzaldehyde	4.347	105	19266	3.12	ppm	95
105) 1,2,4,5-Tetrachloroben...	6.706	216	19958	2.47	ppm	94
107) Atrazine	9.621	215	5461	1.79	ppm	89
111) benzidine	12.129	184	28722	2.40	ppm	99
113) Hydroquinone	6.171	110	12170	1.23	ppm	88

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

7.6.29

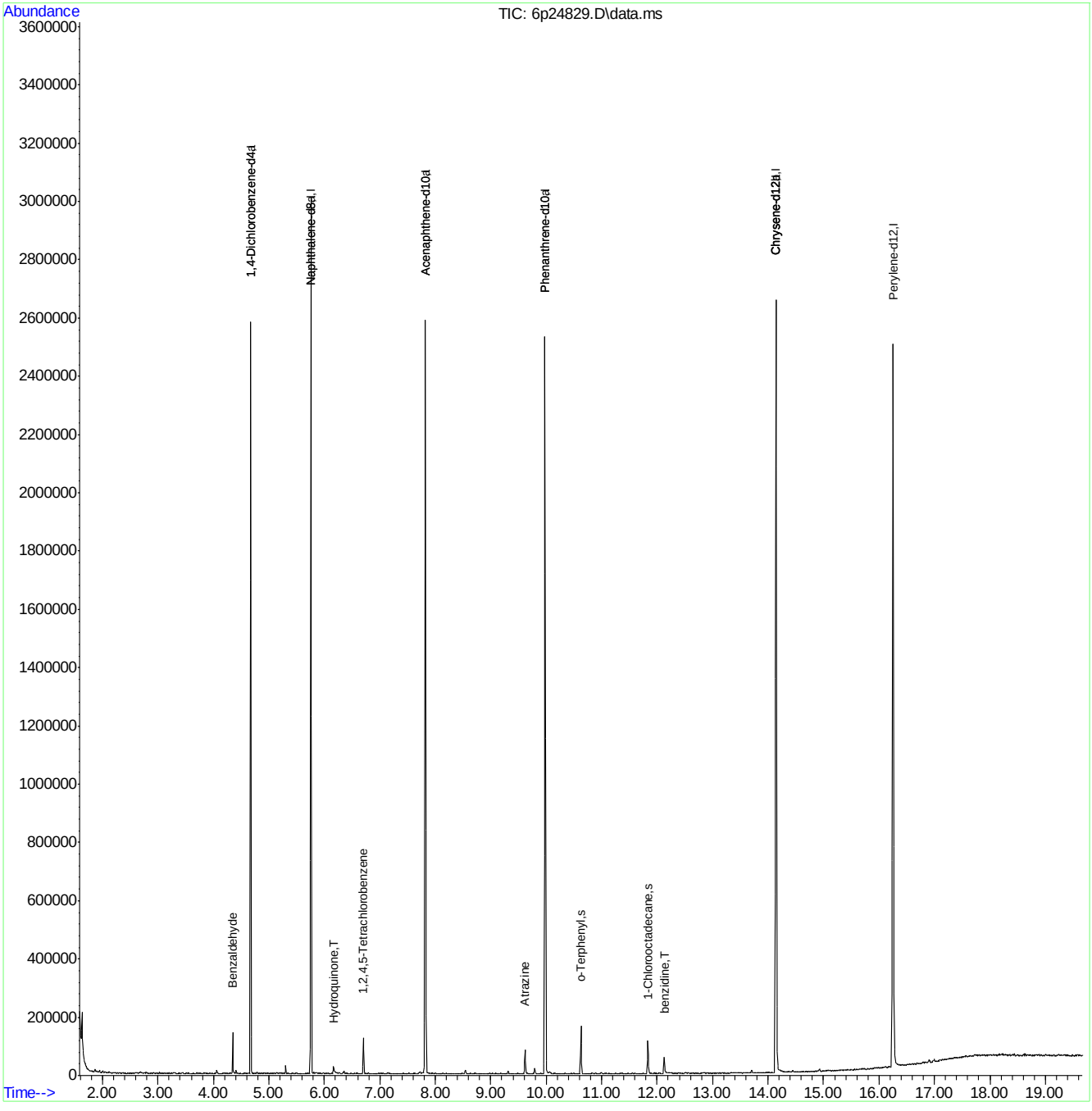
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24829.D
Acq On : 6 Apr 2016 12:17 am
Operator : sarad
Sample : ic1156-2
Misc : op92208,e6p1156
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 08:50:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24830.D
Acq On : 6 Apr 2016 12:44 am
Operator : sarad
Sample : ic1156-1
Misc : op92208,e6p1156
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 06 08:51:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	269424	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1106265	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	569821	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	1100993	40.00	ppm	0.00
83) Chrysene-d12	14.145	240	1217500	40.00	ppm	0.00
92) Perylene-d12	16.253	264	1141185	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	269424	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	569821	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	1100993	40.00	ppm	0.00
110) Chrysene-d12a	14.145	240	1217500	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1106265	40.00	ppm	0.00
114) Chrysene-d12b	14.145	240	1217500	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.626	230	17244	1.15	ppm	-0.01
Spiked Amount 50.000			Recovery	=	2.30%	
109) 1-Chlorooctadecane	11.829	57	7321	0.81	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.62%	
Target Compounds						Qvalue
103) Benzaldehyde	4.347	105	9424	1.55	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.705	216	10198	1.29	ppm	95
107) Atrazine	9.615	215	2670	0.89	ppm #	76
111) benzidine	12.129	184	10861	0.93	ppm	98
113) Hydroquinone	6.170	110	5409	0.56	ppm	91

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

7.6.30

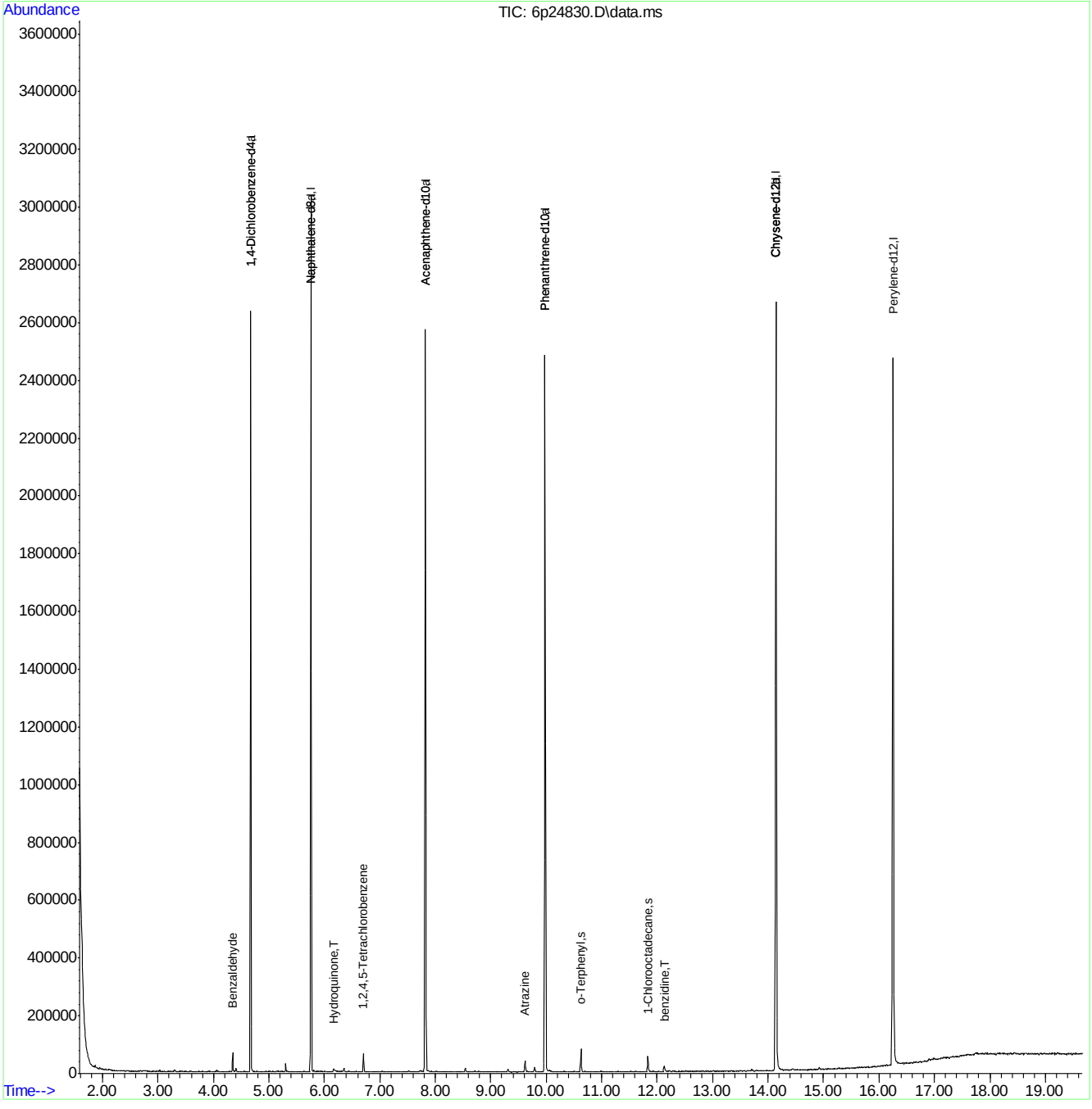
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24830.D
Acq On : 6 Apr 2016 12:44 am
Operator : sarad
Sample : ic1156-1
Misc : op92208,e6p1156
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 06 08:51:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 08:46:12 2016
QLast Update : Wed Apr 06 08:46:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24832.D
Acq On : 6 Apr 2016 1:39 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 06 09:15:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.678	152	290226	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1199622	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	697399	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	1187458	40.00	ppm	0.00
83) Chrysene-d12	14.145	240	1164316	40.00	ppm	0.00
92) Perylene-d12	16.253	264	1006140	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.678	152	290226	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	697399	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	1187458	40.00	ppm	0.00
110) Chrysene-d12a	14.145	240	1164316	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1199622	40.00	ppm	0.00
114) Chrysene-d12b	14.145	240	1164316	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
3) Pyridine	2.673	79	603948	46.08	ppm	97
10) Aniline	4.438	93	837795	52.15	ppm	93
16) Benzyl alcohol	4.785	108	341557	47.29	ppm	99
39) 4-Chloroaniline	5.834	127	599990	46.46	ppm	95
44) 2-Methylnaphthalene	6.513	141	771306	44.83	ppm	100
54) 2-Nitroaniline	7.224	65	321457	44.61	ppm	99
58) 3-Nitroaniline	7.770	138	239416	43.88	ppm	99
62) Dibenzofuran	8.107	168	1252702	45.89	ppm	99
68) 4-Nitroaniline	8.631	138	222449	41.01	ppm	95
79) Carbazole	10.369	167	1332080	44.61	ppm	100

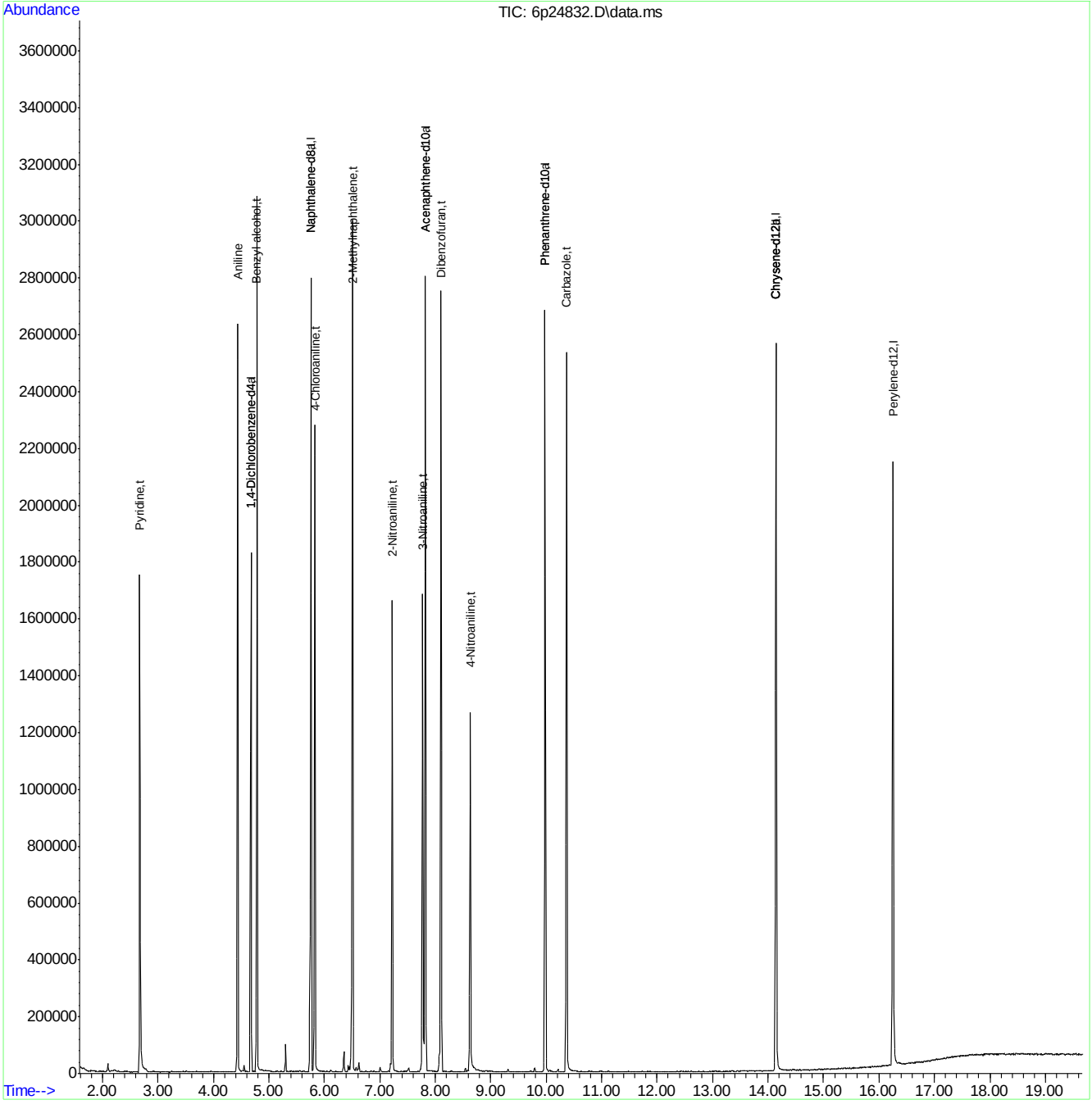
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24832.D
Acq On : 6 Apr 2016 1:39 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 06 09:15:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24833.D
Acq On : 6 Apr 2016 2:06 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 06 09:15:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.673	152	309492	40.00 ppm	0.00
24) Naphthalene-d8	5.759	136	1227425	40.00 ppm	0.00
47) Acenaphthene-d10	7.818	164	692289	40.00 ppm	0.00
69) Phenanthrene-d10	9.979	188	1177525	40.00 ppm	0.00
83) Chrysene-d12	14.146	240	1161010	40.00 ppm	0.00
92) Perylene-d12	16.253	264	1050640	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	309492	40.00 ppm	0.00
104) Acenaphthene-d10a	7.818	164	692289	40.00 ppm	0.00
106) Phenanthrene-d10a	9.979	188	1177525	40.00 ppm	0.00
110) Chrysene-d12a	14.146	240	1161010	40.00 ppm	0.00
112) Naphthalene-d8a	5.759	136	1227425	40.00 ppm	0.00
114) Chrysene-d12b	14.146	240	1161010	40.00 ppm	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	3.700	112	484731	44.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 88.32%	
8) Phenol-d5	4.406	99	628044	43.52 ppm	0.00
Spiked Amount 50.000			Recovery	= 87.04%	
25) Nitrobenzene-d5	5.112	82	598983	44.56 ppm	0.00
Spiked Amount 50.000			Recovery	= 89.12%	
51) 2-Fluorobiphenyl	6.952	172	1012363	45.53 ppm	0.00
Spiked Amount 50.000			Recovery	= 91.06%	
73) 2,4,6-Tribromophenol	8.941	330	117728	42.83 ppm	0.00
Spiked Amount 50.000			Recovery	= 85.66%	
85) Terphenyl-d14	12.536	244	1010925	46.34 ppm	0.00
Spiked Amount 50.000			Recovery	= 92.68%	
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	

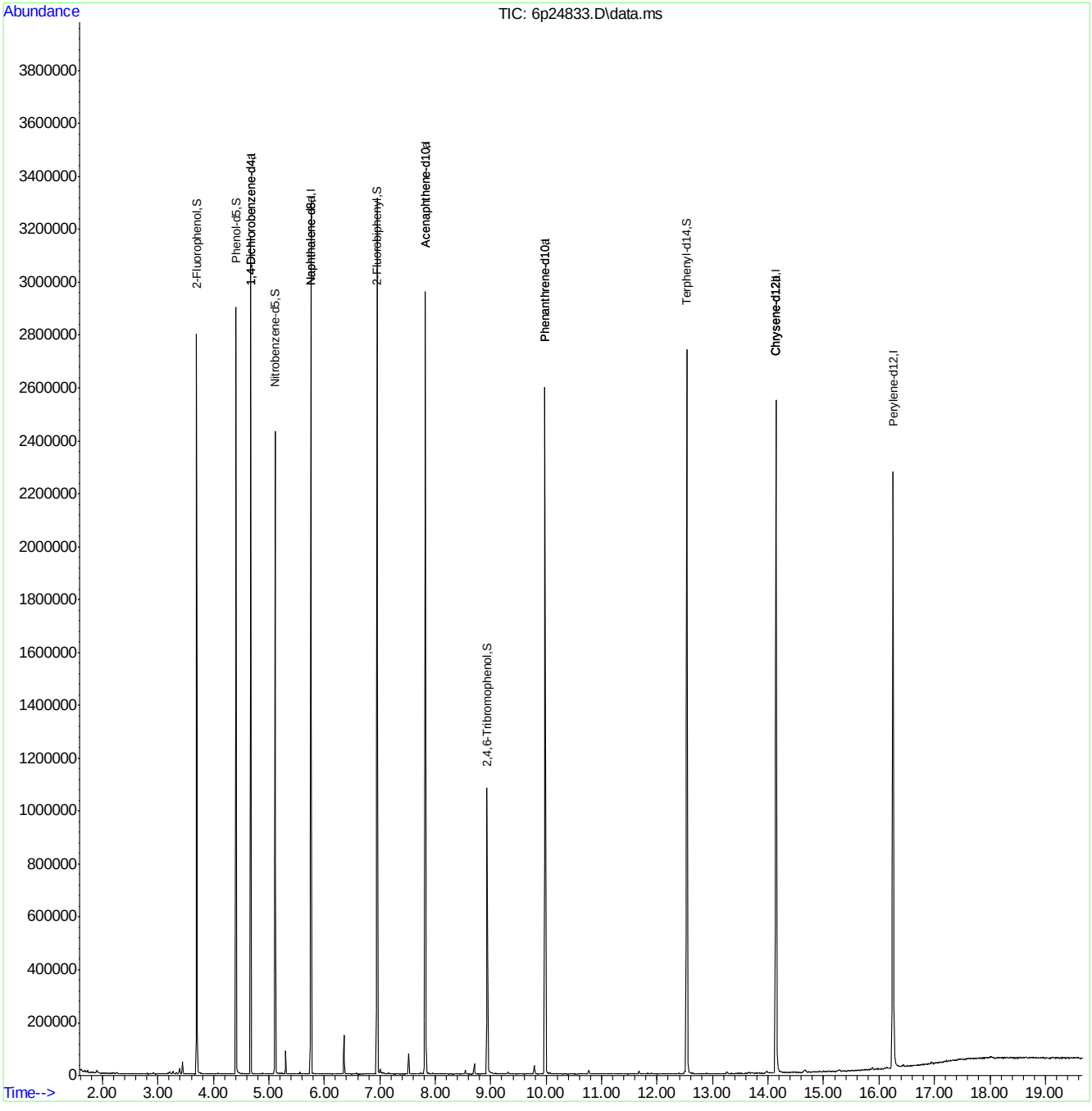
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24833.D
Acq On : 6 Apr 2016 2:06 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 06 09:15:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24834a.D
Acq On : 6 Apr 2016 2:34 am
Operator : sarad
Sample : icv1156-50
Misc : op92208,e6p1156
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 06 09:24:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	275645	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1109192	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	619413	40.00	ppm	0.00
69) Phenanthrene-d10	9.984	188	1035093	40.00	ppm	0.00
83) Chrysene-d12	14.151	240	1015515	40.00	ppm	0.00
92) Perylene-d12	16.253	264	912221	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	275645	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	619413	40.00	ppm	0.00
106) Phenanthrene-d10a	9.984	188	1035093	40.00	ppm	0.00
110) Chrysene-d12a	14.151	240	1015515	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1109192	40.00	ppm	0.00
114) Chrysene-d12b	14.151	240	1015515	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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
105) 1,2,4,5-Tetrachloroben...	6.711	216	464598	47.33	ppm	99

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

7.6.33

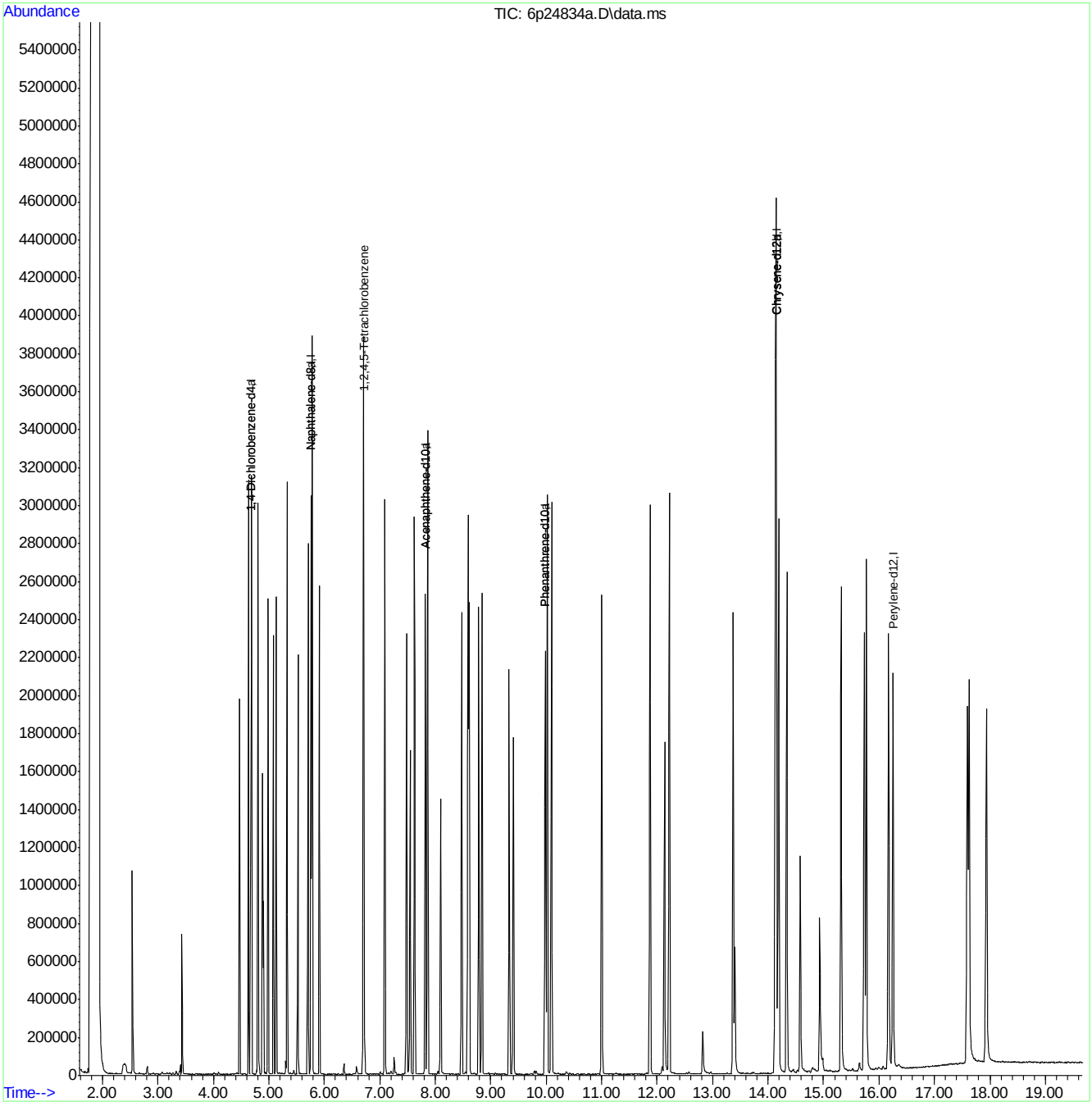
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24834a.D
Acq On : 6 Apr 2016 2:34 am
Operator : sarad
Sample : icv1156-50
Misc : op92208,e6p1156
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 06 09:24:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration



M6P1155.M Wed Apr 06 09:28:24 2016 ACLIMS Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 16:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24834.D
Acq On : 6 Apr 2016 2:34 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 06 09:23:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	275645	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1109192	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	619413	40.00	ppm	0.00
69) Phenanthrene-d10	9.984	188	1035093	40.00	ppm	0.00
83) Chrysene-d12	14.151	240	1015515	40.00	ppm	0.00
92) Perylene-d12	16.253	264	912221	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	275645	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	619413	40.00	ppm	0.00
106) Phenanthrene-d10a	9.984	188	1035093	40.00	ppm	0.00
110) Chrysene-d12a	14.151	240	1015515	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1109192	40.00	ppm	0.00
114) Chrysene-d12b	14.151	240	1015515	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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.539	74	352031	46.09	ppm	99
11) bis(2-Chloroethyl)ether	4.475	93	518784	48.95	ppm	97
14) 1,3-Dichlorobenzene	4.630	146	509556	46.26	ppm	99
15) 1,4-Dichlorobenzene	4.689	146	524172	47.33	ppm	100
17) 1,2-Dichlorobenzene	4.807	146	484092	47.53	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.882	121	160281	44.87	ppm	99
22) n-Nitroso-di-n-propyla...	4.989	70	408522	47.83	ppm	99
23) Hexachloroethane	5.080	201	189099	48.25	ppm	97
26) Nitrobenzene	5.128	77	587892	46.04	ppm	98
28) Isophorone	5.331	82	1071372	50.15	ppm	99
32) bis(2-Chloroethoxy)met...	5.523	93	573261	45.52	ppm	99
36) 1,2,4-Trichlorobenzene	5.705	180	433465	47.01	ppm	100
38) Naphthalene	5.780	128	1408440	47.66	ppm	100
42) Hexachlorobutadiene	5.909	225	249417	48.07	ppm	97
48) Hexachlorocyclopentadiene	6.706	237	225850	45.36	ppm	97
52) 2-Chloronaphthalene	7.091	162	852866	48.44	ppm	99
55) Dimethylphthalate	7.481	163	927735	45.76	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24834.D
Acq On : 6 Apr 2016 2:34 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 06 09:23:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56)	Acenaphthylene	7.625	152	1273726	47.26	ppm	100
57)	2,6-Dinitrotoluene	7.551	165	195320	48.73	ppm	97
59)	Acenaphthene	7.866	153	876156	48.05	ppm	99
63)	2,4-Dinitrotoluene	8.096	165	239520	45.38	ppm	81
65)	Diethylphthalate	8.476	149	898344	45.95	ppm	99
66)	Fluorene	8.594	166	964394	47.44	ppm	99
67)	4-Chlorophenyl-phenyle...	8.615	204	482224	45.50	ppm	98
71)	n-Nitrosodiphenylamine	8.786	169	665480	46.85	ppm	100
72)	1,2-Diphenylhydrazine	8.840	77	1135894	49.87	ppm	96
74)	4-Bromophenyl-phenylether	9.332	248	269049	48.64	ppm	98
75)	Hexachlorobenzene	9.412	284	273235	48.32	ppm	97
77)	Phenanthrene	10.016	178	1409840	47.27	ppm	99
78)	Anthracene	10.097	178	1392361	47.06	ppm	99
80)	Di-n-butylphthalate	11.000	149	1454241	47.19	ppm	99
81)	Fluoranthene	11.872	202	1521738	47.10	ppm	99
84)	Pyrene	12.220	202	1615264	50.61	ppm	99
86)	Butylbenzylphthalate	13.370	149	622142	49.67	ppm	96
88)	Benzo[a]anthracene	14.135	228	1352658	47.05	ppm	99
90)	Chrysene	14.194	228	1356639	47.05	ppm	99
91)	bis(2-Ethylhexyl)phtha...	14.338	149	854712	49.74	ppm	98
93)	Di-n-octylphthalate	15.317	149	1447614	51.74	ppm	100
94)	Benzo[b]fluoranthene	15.734	252	1284910	47.46	ppm	97
95)	Benzo[k]fluoranthene	15.777	252	1304337	50.65	ppm	98
96)	Benzo[a]pyrene	16.178	252	1217872	51.70	ppm	99
97)	Indeno[1,2,3-cd]pyrene	17.595	276	1112187m	50.12	ppm	
99)	Dibenz[a,h]anthracene	17.627	278	1197527	49.75	ppm	98
101)	Benzo[g,h,i]perylene	17.938	276	1192565	49.08	ppm	99

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

7.6.34

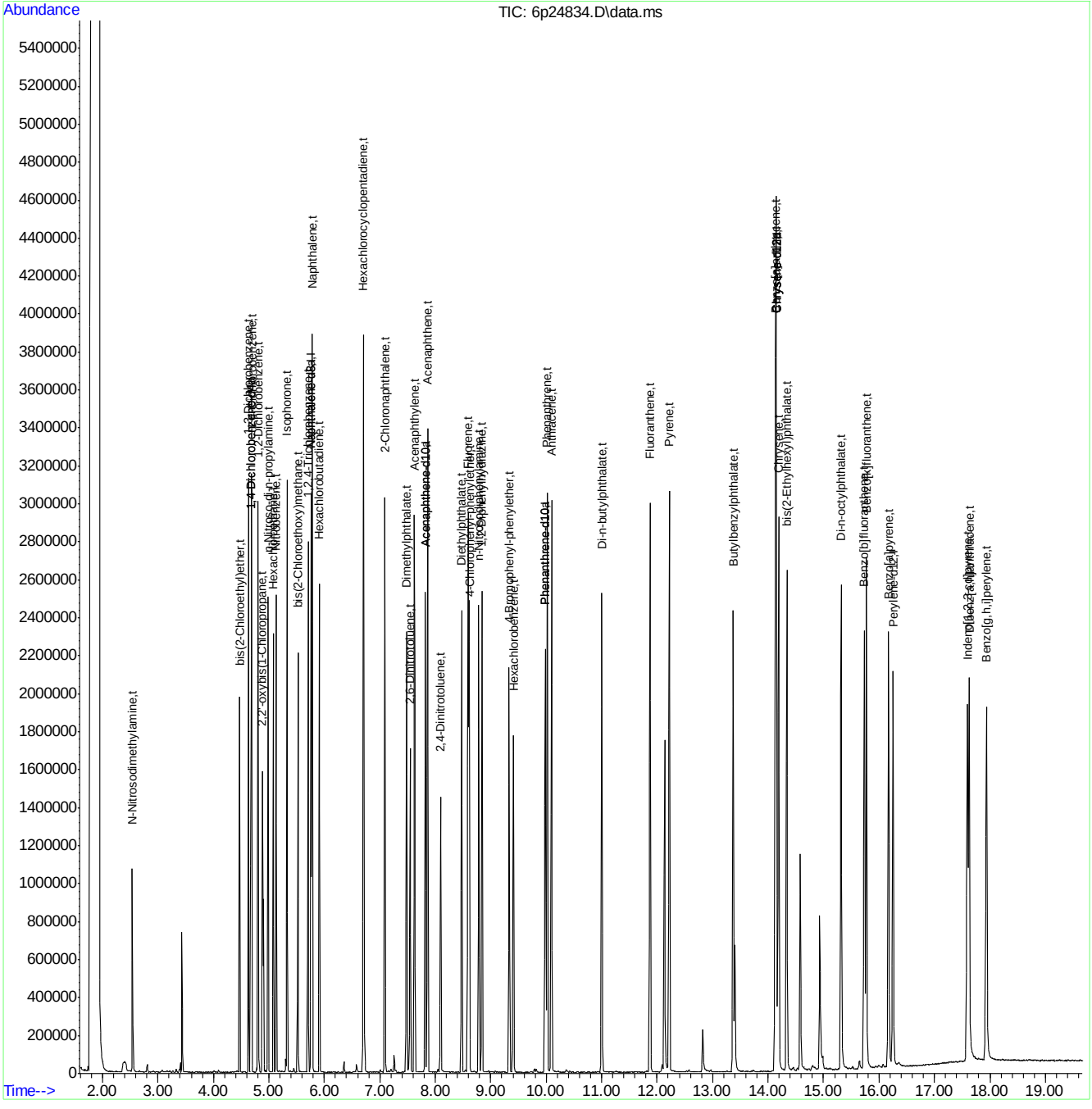
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24834.D
Acq On : 6 Apr 2016 2:34 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 06 09:23:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Manual Integration Approval Summary

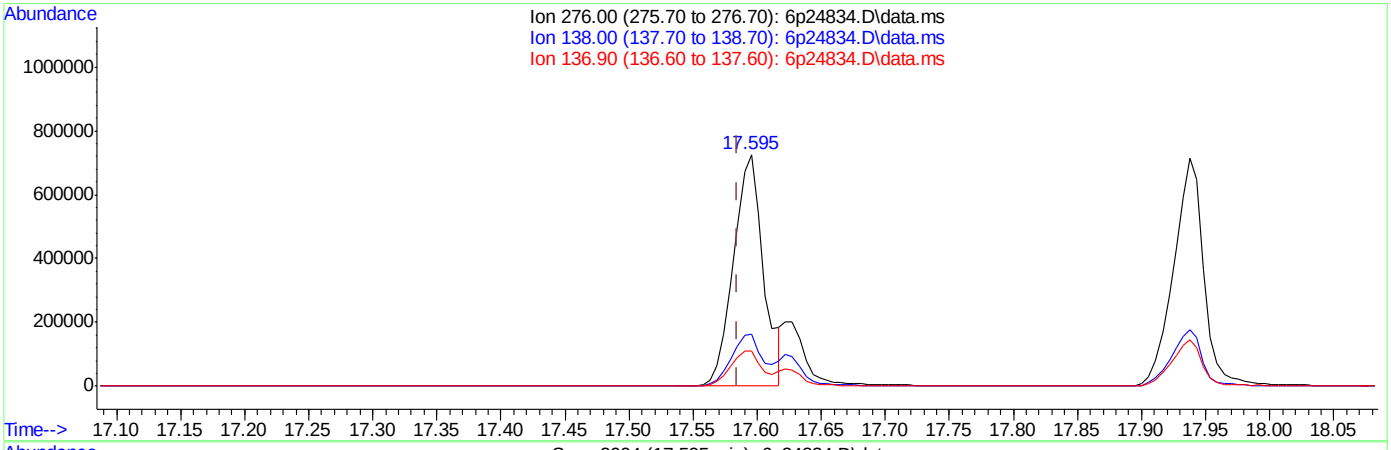
Sample Number:	E6P1156-ICV1155	**Method:**	SW846 8270D
Lab FileID:	6P24834.D	**Analyst approved:**	04/06/16 09:50 Ashley Dye
Injection Time:	04/06/16 02:34	**Supervisor approved:**	04/06/16 16:26 Kristi Schollenberger

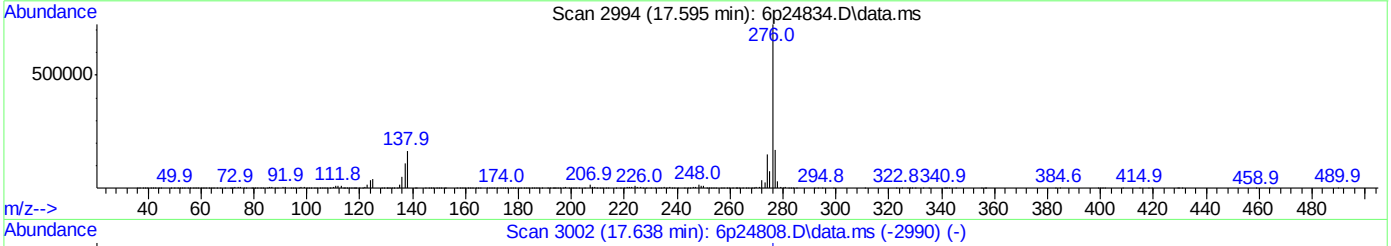
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.60	Overlapping peak

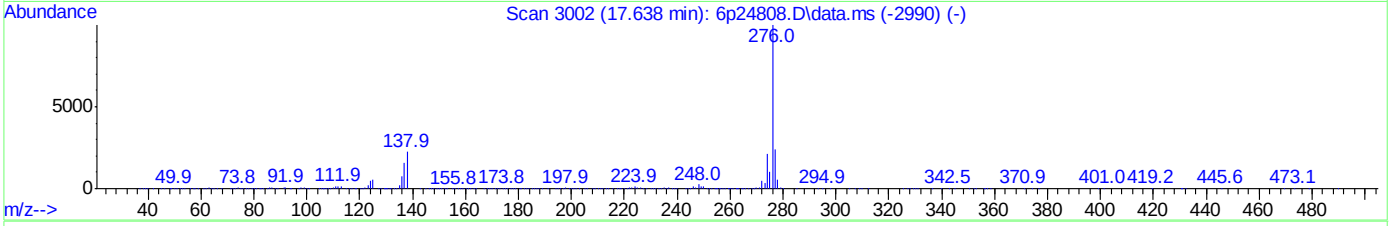
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24834.D
Acq On : 6 Apr 2016 2:34 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 06 09:16:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration







TIC: 6p24834.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.595min (+0.011) 52.77ppm

response 1170952

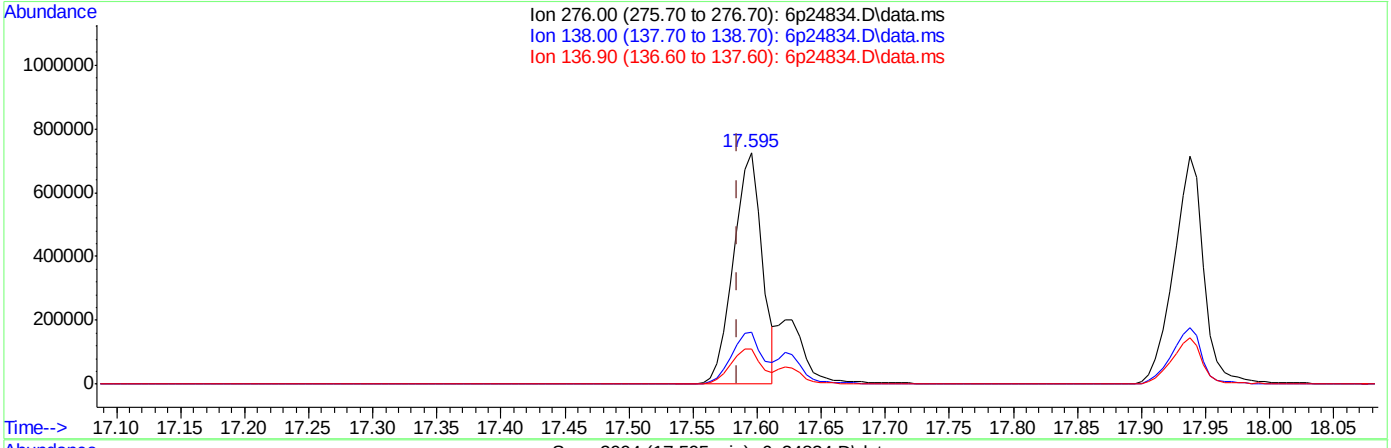
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	19.60
136.90	14.60	13.76
0.00	0.00	0.00

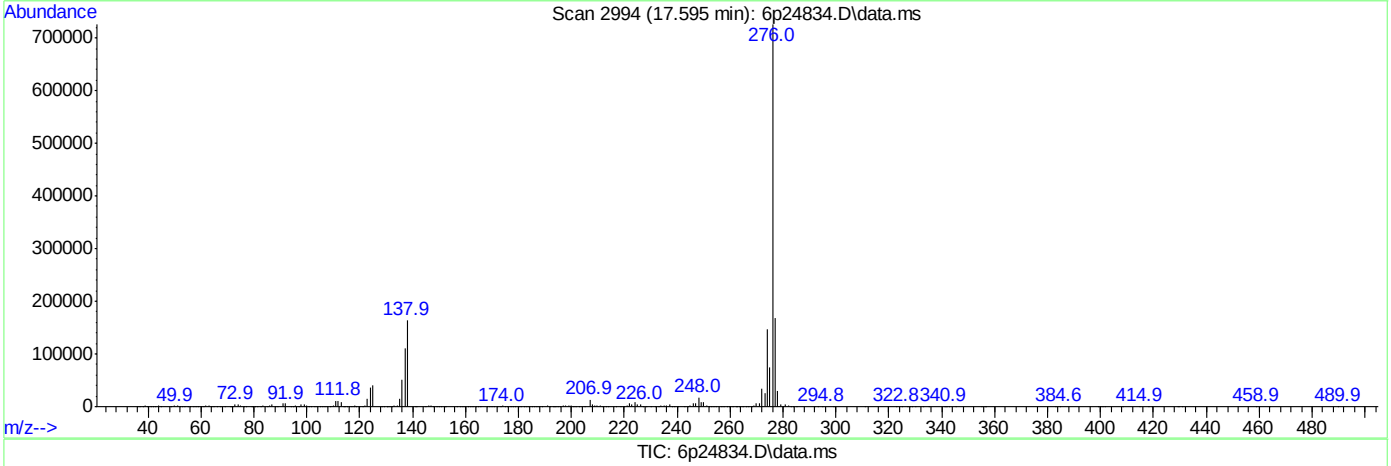
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24834.D
Acq On : 6 Apr 2016 2:34 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 06 09:18:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration





TIC: 6p24834.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.595min (+0.011) 50.12ppm m

response 1112187

Ion	Exp%	Act%
276.00	100	100
138.00	20.00	22.66
136.90	14.60	15.23
0.00	0.00	0.00

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24835.D
Acq On : 6 Apr 2016 3:01 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 06 09:24:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

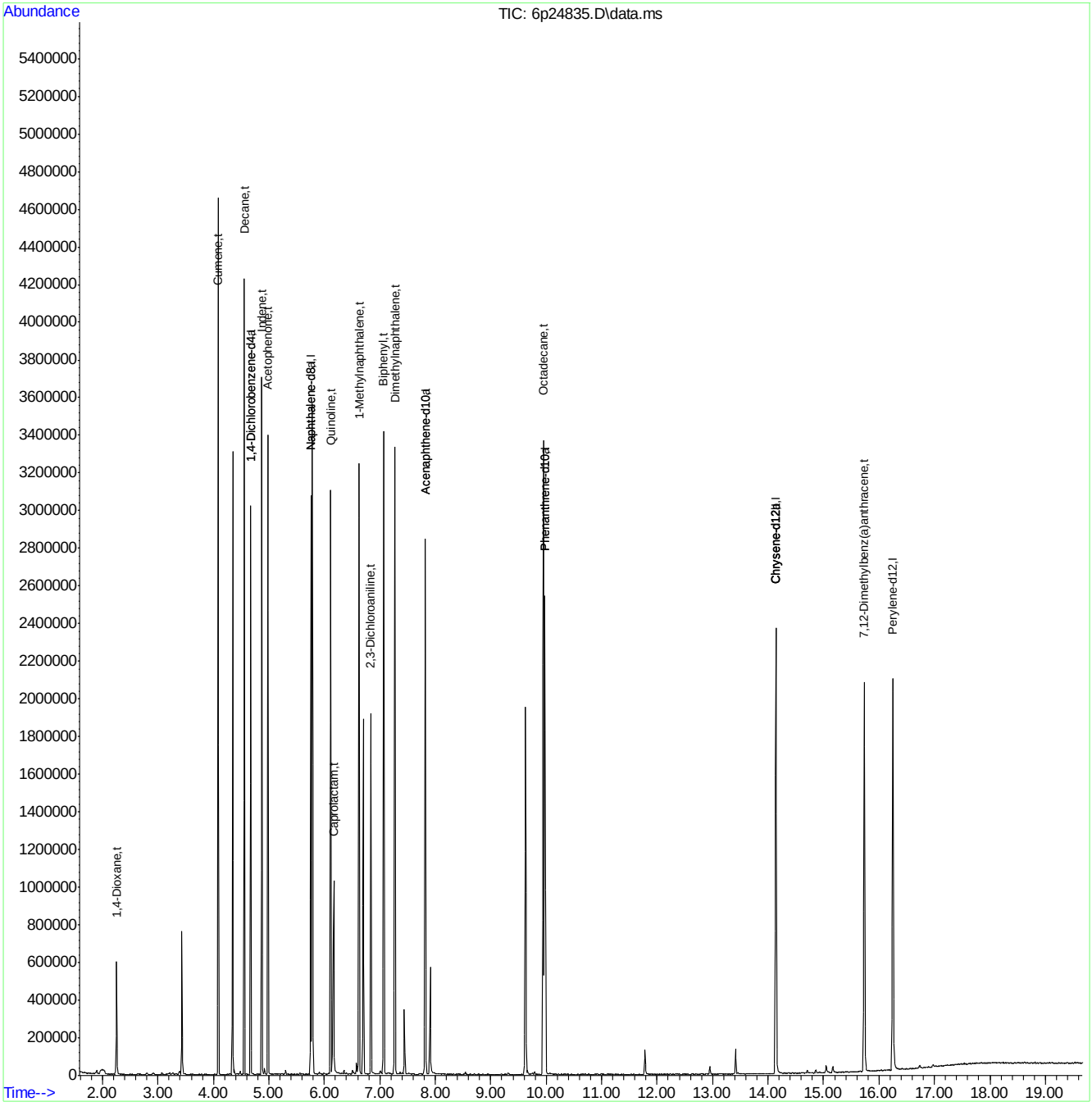
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	292851	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1169567	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	672920	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	1102194	40.00	ppm	0.00
83) Chrysene-d12	14.146	240	1104338	40.00	ppm	0.00
92) Perylene-d12	16.248	264	946135	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	292851	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	672920	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	1102194	40.00	ppm	0.00
110) Chrysene-d12a	14.146	240	1104338	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1169567	40.00	ppm	0.00
114) Chrysene-d12b	14.146	240	1104338	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%	
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	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.256	88	227923	43.39	ppm	99
6) Indene	4.871	116	855072	47.41	ppm	97
7) Cumene	4.085	105	1242872	44.06	ppm	99
13) Decane	4.555	43	578167	43.98	ppm	97
18) Acetophenone	4.983	105	710125	46.07	ppm	84
27) Quinoline	6.112	129	894144	43.69	ppm	99
40) 2,3-Dichloroaniline	6.839	161	391484	38.26	ppm	97
41) Caprolactam	6.171	55	220876	42.35	ppm	97
45) 1-Methylnaphthalene	6.625	141	751962	42.99	ppm	99
46) Dimethylnaphthalene	7.273	156	839734	43.37	ppm	99
53) Biphenyl	7.069	154	1141783	44.12	ppm	100
82) Octadecane	9.947	57	708040	47.32	ppm	99
100) 7,12-Dimethylbenz(a)an...	15.734	256	520163	46.44	ppm	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24835.D
Acq On : 6 Apr 2016 3:01 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 06 09:24:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24835a.D
Acq On : 6 Apr 2016 3:01 am
Operator : sarad
Sample : icv1156-50
Misc : op92208,e6p1156
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 06 09:25:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	292851	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	1169567	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	672920	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	1102194	40.00	ppm	0.00
83) Chrysene-d12	14.146	240	1104338	40.00	ppm	0.00
92) Perylene-d12	16.248	264	946135	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	292851	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	672920	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	1102194	40.00	ppm	0.00
110) Chrysene-d12a	14.146	240	1104338	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	1169567	40.00	ppm	0.00
114) Chrysene-d12b	14.146	240	1104338	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%	
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	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.347	105	421253	46.47	ppm	98
107) Atrazine	9.631	215	151147	50.80	ppm	95

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

7.6.36

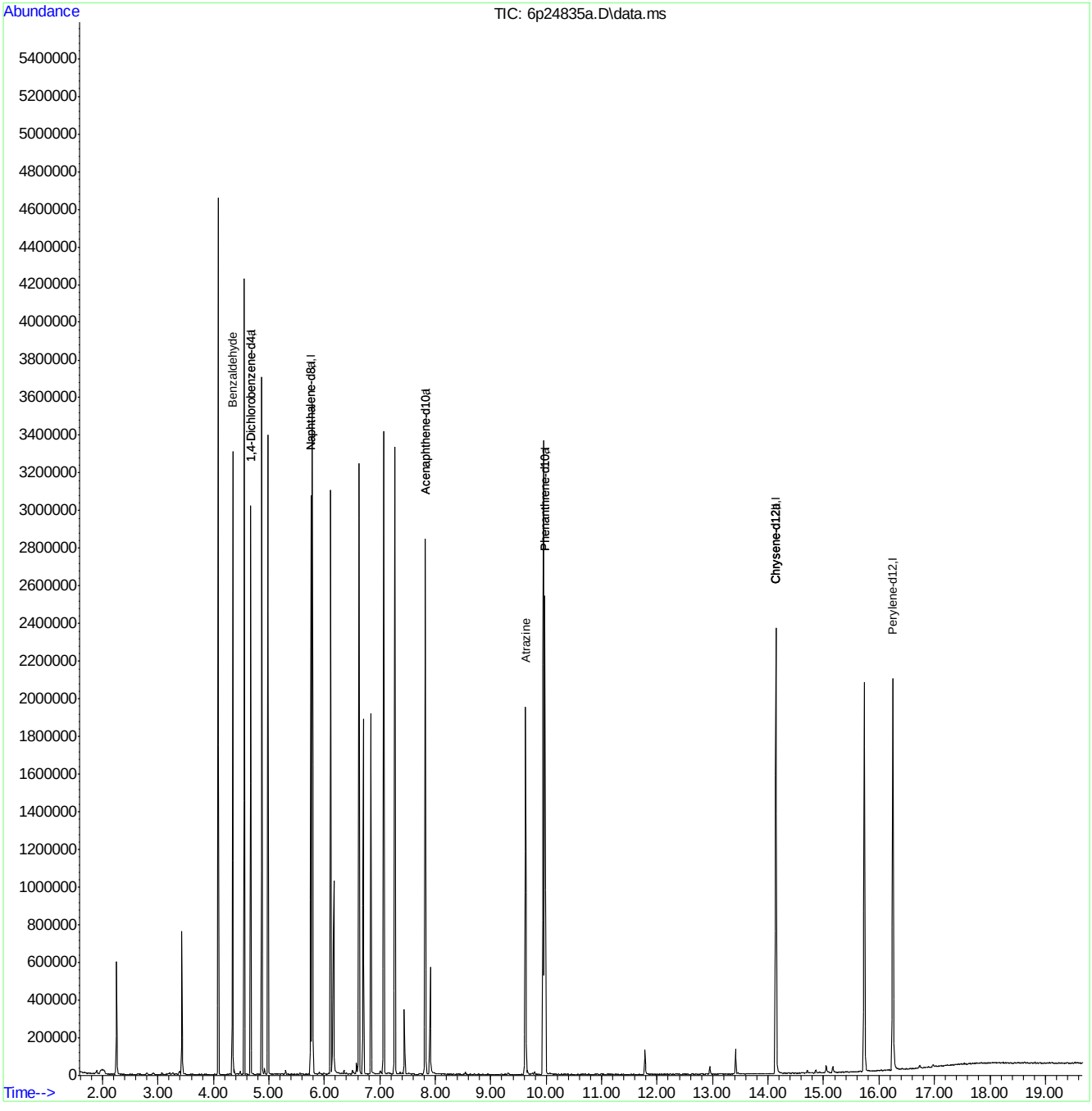
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24835a.D
Acq On : 6 Apr 2016 3:01 am
Operator : sarad
Sample : icv1156-50
Misc : op92208,e6p1156
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 06 09:25:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration



M6P1155.M Wed Apr 06 09:28:31 2016 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24836.D
Acq On : 6 Apr 2016 3:29 am
Operator : sarad
Sample : icv1156-50
Misc : op92208,e6p1156
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 06 09:20:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	238825	40.00	ppm	0.00
24) Naphthalene-d8	5.759	136	964488	40.00	ppm	0.00
47) Acenaphthene-d10	7.818	164	560412	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	964306	40.00	ppm	0.00
83) Chrysene-d12	14.140	240	1002943	40.00	ppm	0.00
92) Perylene-d12	16.248	264	917322	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	238825	40.00	ppm	0.00
104) Acenaphthene-d10a	7.818	164	560412	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	964306	40.00	ppm	0.00
110) Chrysene-d12a	14.140	240	1002943	40.00	ppm	0.00
112) Naphthalene-d8a	5.759	136	964488	40.00	ppm	0.00
114) Chrysene-d12b	14.140	240	1002943	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
113) Hydroquinone	6.176	110	452018	59.64	ppm	97

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

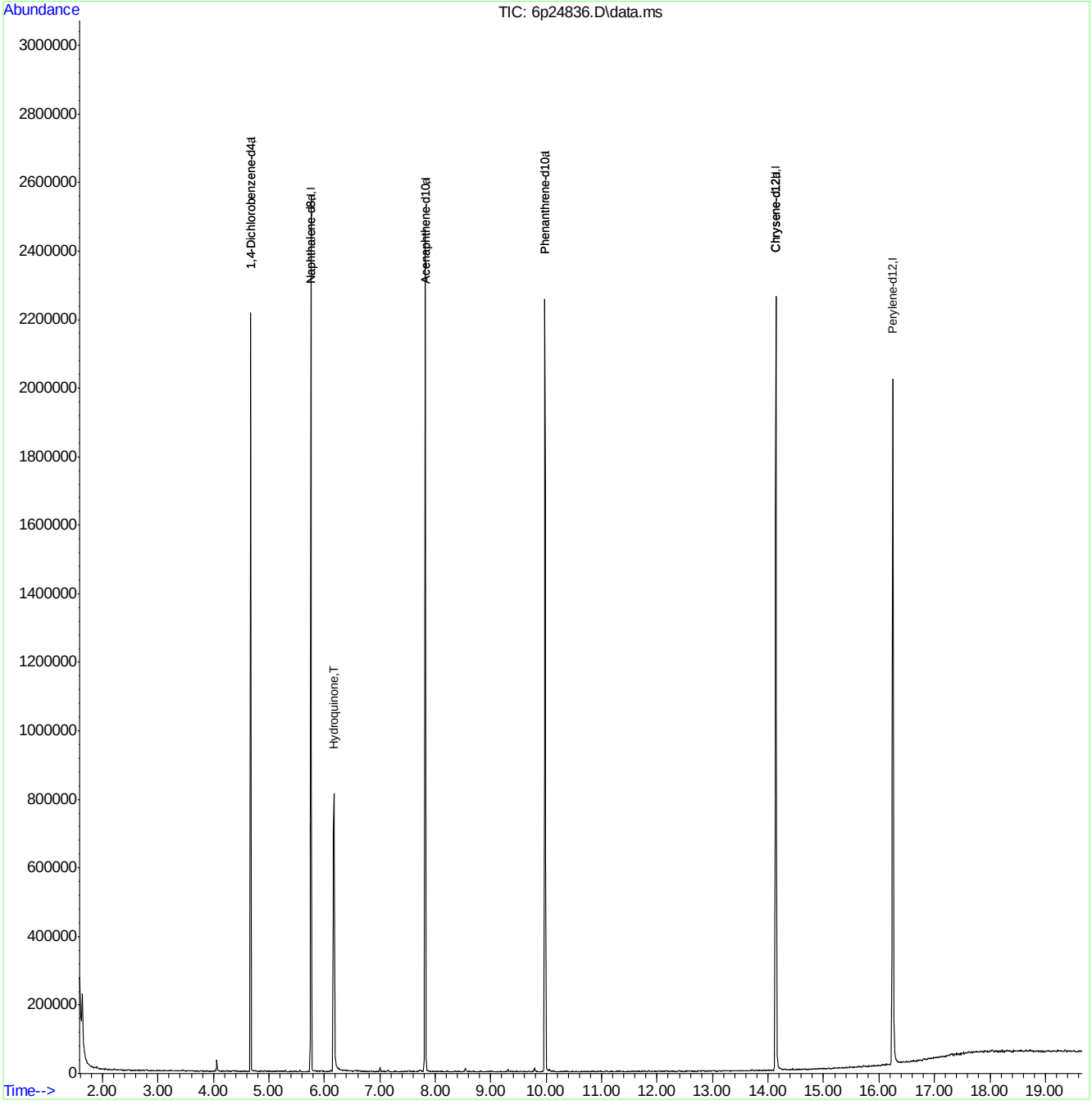
7.6.37

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24836.D
Acq On : 6 Apr 2016 3:29 am
Operator : sarad
Sample : icv1156-50
Misc : op92208,e6p1156
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 06 09:20:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24837.D
Acq On : 6 Apr 2016 3:56 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 06 09:26:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

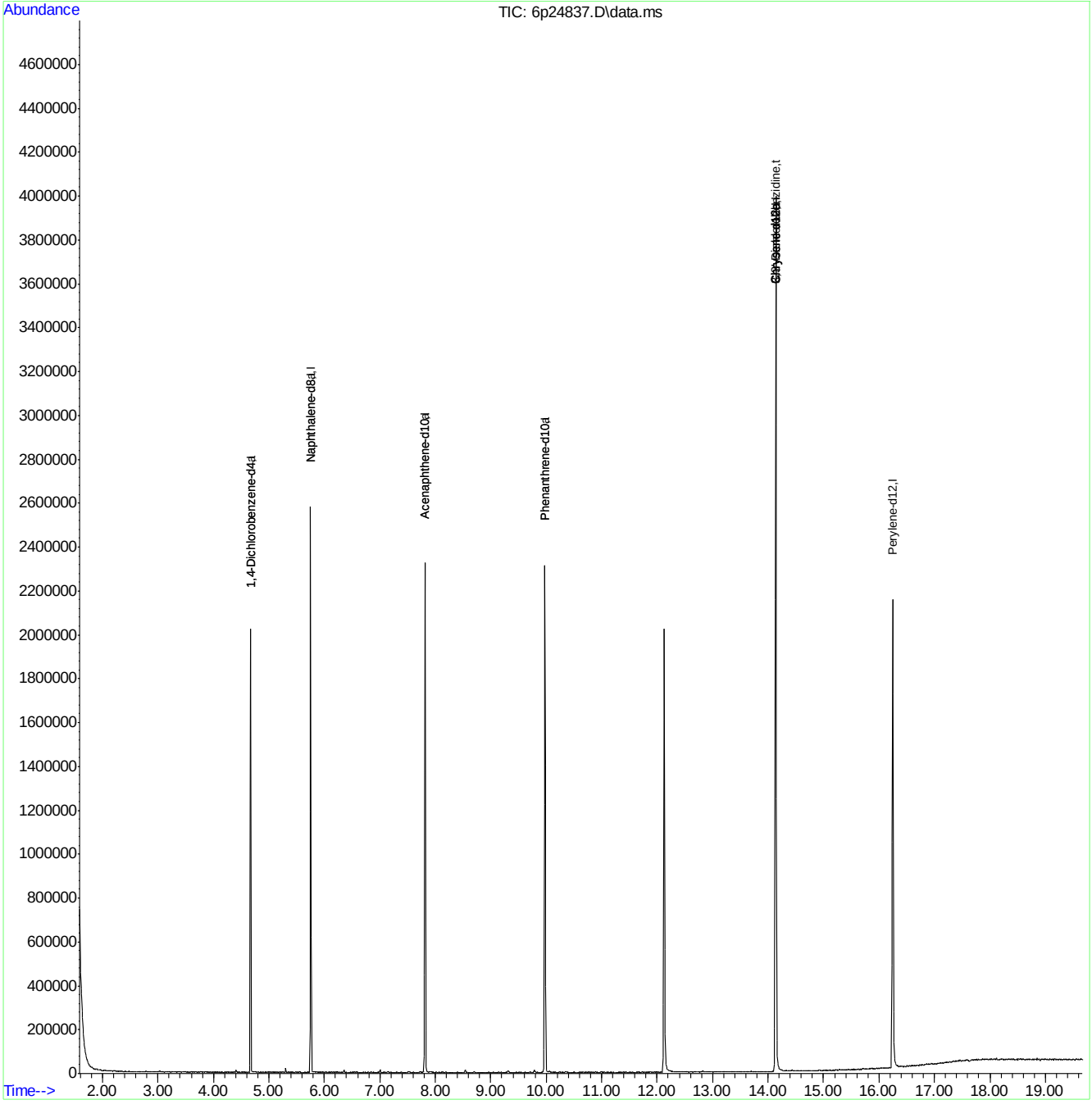
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	248146	40.00	ppm	0.00
24) Naphthalene-d8	5.753	136	986088	40.00	ppm	0.00
47) Acenaphthene-d10	7.813	164	573228	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	994475	40.00	ppm	0.00
83) Chrysene-d12	14.140	240	1035759	40.00	ppm	0.00
92) Perylene-d12	16.248	264	959226	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	248146	40.00	ppm	0.00
104) Acenaphthene-d10a	7.813	164	573228	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	994475	40.00	ppm	0.00
110) Chrysene-d12a	14.140	240	1035759	40.00	ppm	0.00
112) Naphthalene-d8a	5.753	136	986088	40.00	ppm	0.00
114) Chrysene-d12b	14.140	240	1035759	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
89) 3,3'-Dichlorobenzidine	14.140	252	466656	49.26	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24837.D
Acq On : 6 Apr 2016 3:56 am
Operator : sarad
Sample : icv1155-50
Misc : op92208,e6p1156
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 06 09:26:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration



M6P1155.M Wed Apr 06 09:28:38 2016 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24837a.D
Acq On : 6 Apr 2016 3:56 am
Operator : sarad
Sample : icv1156-50
Misc : op92208,e6p1156
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 06 09:26:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

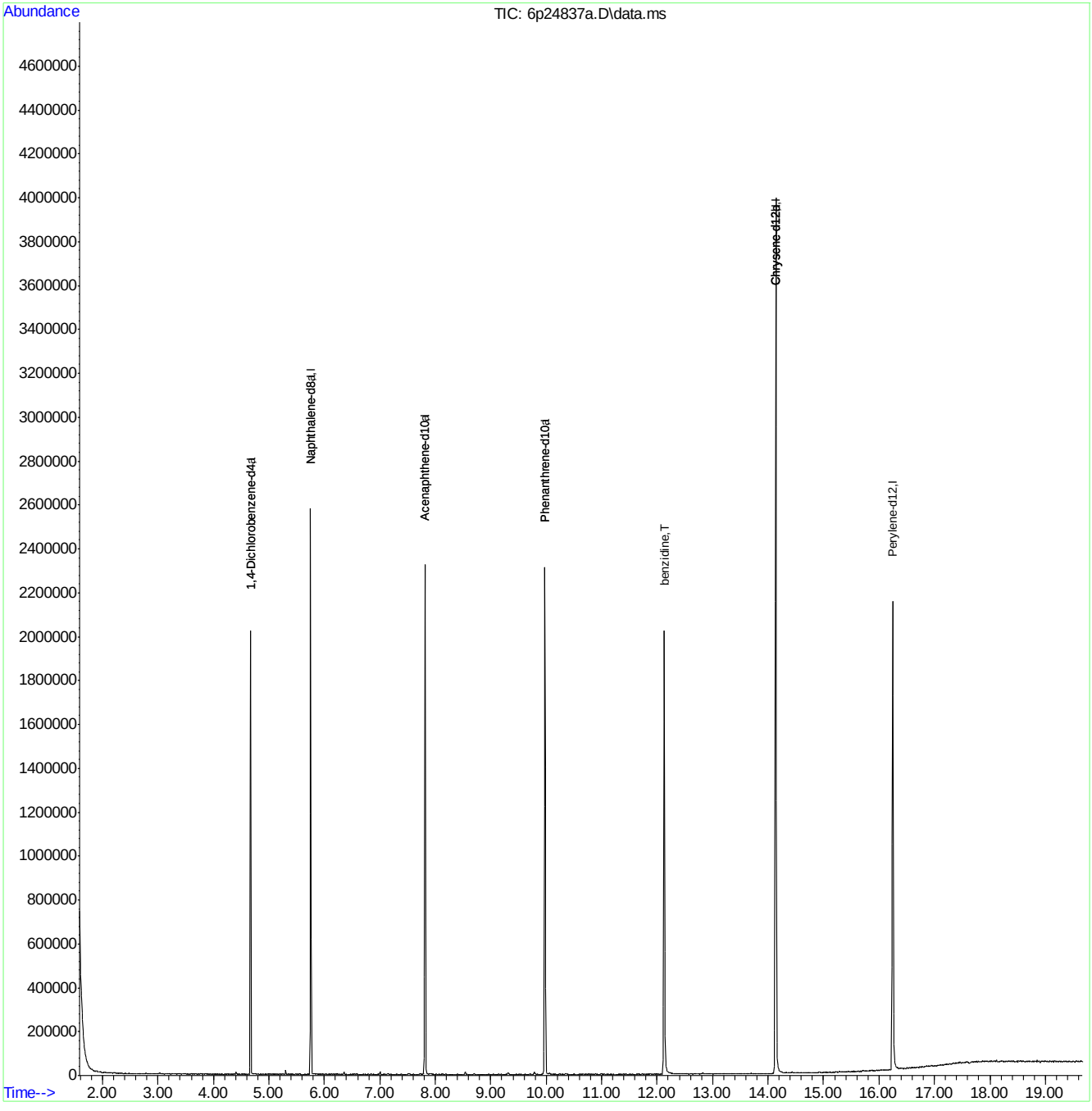
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	248146	40.00	ppm	0.00
24) Naphthalene-d8	5.753	136	986088	40.00	ppm	0.00
47) Acenaphthene-d10	7.813	164	573228	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	994475	40.00	ppm	0.00
83) Chrysene-d12	14.140	240	1035759	40.00	ppm	0.00
92) Perylene-d12	16.248	264	959226	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	248146	40.00	ppm	0.00
104) Acenaphthene-d10a	7.813	164	573228	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	994475	40.00	ppm	0.00
110) Chrysene-d12a	14.140	240	1035759	40.00	ppm	0.00
112) Naphthalene-d8a	5.753	136	986088	40.00	ppm	0.00
114) Chrysene-d12b	14.140	240	1035759	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
111) benzidine	12.129	184	937817	72.15	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1156\
Data File : 6p24837a.D
Acq On : 6 Apr 2016 3:56 am
Operator : sarad
Sample : icv1156-50
Misc : op92208,e6p1156
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 06 09:26:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration



M6P1155.M Wed Apr 06 09:28:42 2016 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1157\
Data File : 6p24839.D
Acq On : 6 Apr 2016 9:53 am
Operator : ashleyd
Sample : icv1155-50
Misc : op92208,e6p1157
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 10:15:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.673	152	296529	40.00	ppm	0.00
24) Naphthalene-d8	5.753	136	1202043	40.00	ppm	0.00
47) Acenaphthene-d10	7.813	164	694540	40.00	ppm	0.00
69) Phenanthrene-d10	9.979	188	1194165	40.00	ppm	0.00
83) Chrysene-d12	14.140	240	1236379	40.00	ppm	0.00
92) Perylene-d12	16.247	264	1094473	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.673	152	296529	40.00	ppm	0.00
104) Acenaphthene-d10a	7.813	164	694540	40.00	ppm	0.00
106) Phenanthrene-d10a	9.979	188	1194165	40.00	ppm	0.00
110) Chrysene-d12a	14.140	240	1236379	40.00	ppm	0.00
112) Naphthalene-d8a	5.753	136	1202043	40.00	ppm	0.00
114) Chrysene-d12b	14.140	240	1236379	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
9) Phenol	4.416	94	654289	41.54	ppm	92
12) 2-Chlorophenol	4.518	128	495320	44.21	ppm	94
19) 2-Methylphenol	4.865	108	478562	49.06	ppm	97
21) 3&4-Methylphenol	4.988	108	504153	49.27	ppm	98
29) 2-Nitrophenol	5.400	139	262439	48.22	ppm	92
30) 2,4-Dimethylphenol	5.438	107	535586	52.14	ppm	95
31) Benzoic acid	5.555	105	421976	52.15	ppm	98
33) 2,4-Dichlorophenol	5.620	162	393007	45.57	ppm	98
34) 2,6-Dichlorophenol	5.839	162	390218	45.88	ppm	98
43) 4-Chloro-3-methylphenol	6.336	107	466629	45.80	ppm	98
49) 2,4,6-Trichlorophenol	6.844	196	284562	47.92	ppm	98
50) 2,4,5-Trichlorophenol	6.882	196	291306	45.28	ppm	99
60) 2,4-Dinitrophenol	7.903	184	102484	39.19	ppm #	85
61) 4-Nitrophenol	8.027	109	165026	49.00	ppm	97
64) 2,3,4,6-Tetrachlorophenol	8.283	232	253953	46.52	ppm	99
70) 4,6-Dinitro-2-methylph...	8.674	198	169236	41.01	ppm	97
76) Pentachlorophenol	9.706	266	199419	49.07	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1157\
Data File : 6p24839.D
Acq On : 6 Apr 2016 9:53 am
Operator : ashleyd
Sample : icv1155-50
Misc : op92208,e6p1157
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 10:15:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration

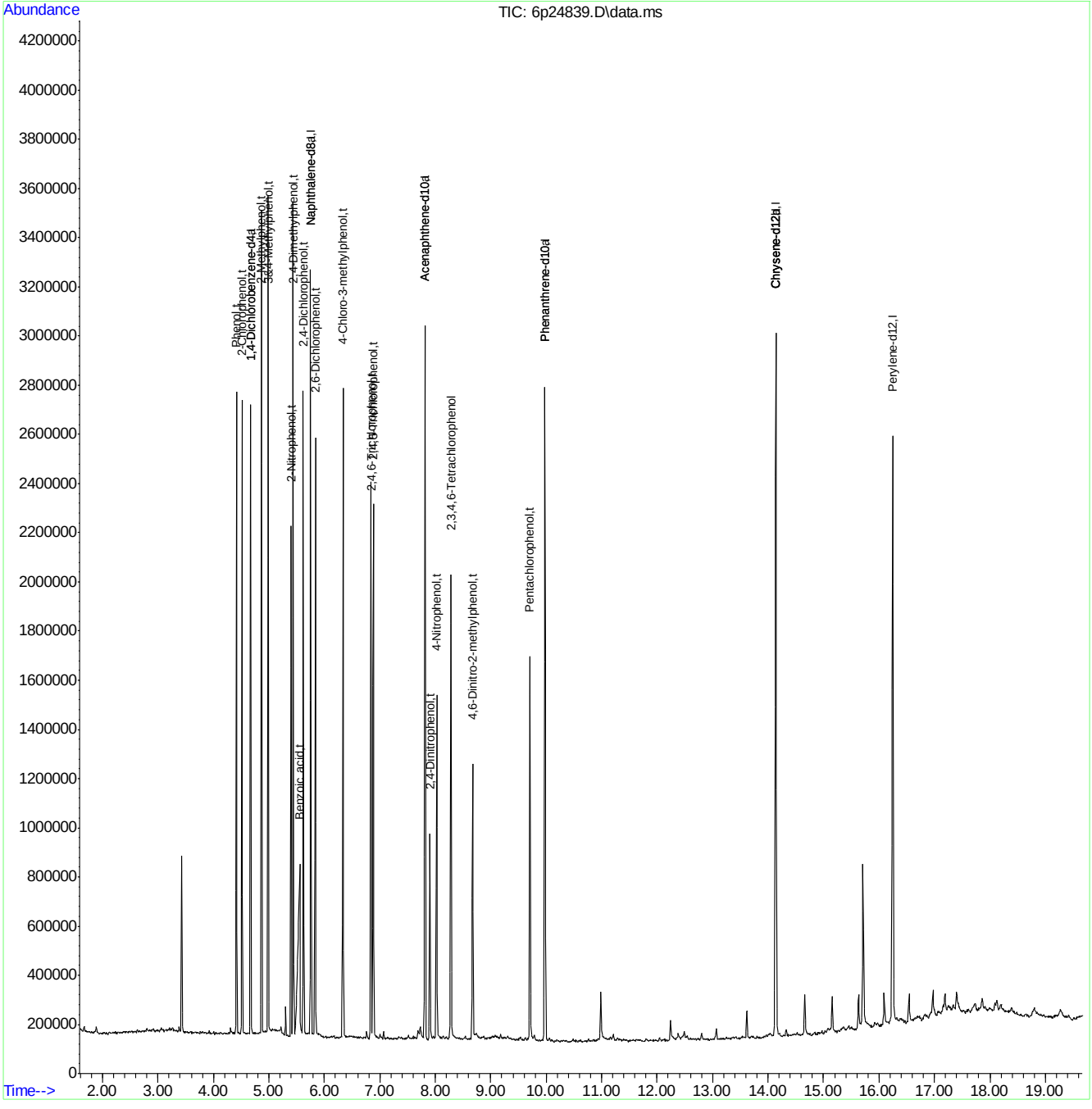
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1157\
Data File : 6p24839.D
Acq On : 6 Apr 2016 9:53 am
Operator : ashleyd
Sample : icv1155-50
Misc : op92208,e6p1157
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 10:15:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Apr 06 09:04:01 2016
QLast Update : Wed Apr 06 09:04:01 2016
Response via : Initial Calibration



M6P1155.M Wed Apr 06 10:18:39 2016 ACLIMS Page: 3

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/09/16 09:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25715.D
Acq On : 6 May 2016 10:03 pm
Operator : seanb1
Sample : cc1155-25
Misc : op93506,e6p1201
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 07 10:49:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:48:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.534	152	323726	40.00 ppm	-0.02
24) Naphthalene-d8	5.593	136	1324938	40.00 ppm	-0.06
47) Acenaphthene-d10	7.625	164	800922	40.00 ppm	-0.07
69) Phenanthrene-d10	9.786	188	1344374	40.00 ppm	-0.09
83) Chrysene-d12	13.969	240	1264143	40.00 ppm	-0.04
92) Perylene-d12	16.087	264	1032116	40.00 ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.534	152	323726	40.00 ppm	-0.05
104) Acenaphthene-d10a	7.625	164	800922	40.00 ppm	-0.04
106) Phenanthrene-d10a	9.786	188	1344374	40.00 ppm	-0.08
108) Chrysene-d12a	13.969	240	1264143	40.00 ppm	-0.06
110) Naphthalene-d8a	5.593	136	1324938	40.00 ppm	-0.05
System Monitoring Compounds					
5) 2-Fluorophenol	3.593	112	239785	20.88 ppm	0.00
Spiked Amount 50.000			Recovery = 41.76%		
8) Phenol-d5	4.315	99	332912	22.06 ppm	-0.01
Spiked Amount 50.000			Recovery = 44.12%		
25) Nitrobenzene-d5	4.967	82	335586	23.13 ppm	-0.05
Spiked Amount 50.000			Recovery = 46.26%		
51) 2-Fluorobiphenyl	6.764	172	622611	24.20 ppm	-0.08
Spiked Amount 50.000			Recovery = 48.40%		
73) 2,4,6-Tribromophenol	8.754	330	85415	27.22 ppm	-0.09
Spiked Amount 50.000			Recovery = 54.44%		
85) Terphenyl-d14	12.332	244	640707	26.97 ppm	-0.06
Spiked Amount 50.000			Recovery = 53.94%		
Target Compounds					Qvalue
2) 1,4-Dioxane	2.058	88	89708	15.45 ppm	98
3) Pyridine	2.395	79	243759	16.67 ppm	92
4) N-Nitrosodimethylamine	2.368	74	143743	16.02 ppm #	62
6) Indene	4.727	116	484939	24.32 ppm	97
7) Cumene	3.935	105	704357	22.59 ppm	98
9) Phenol	4.325	94	357879	20.81 ppm	98
10) Aniline	4.299	93	342531	19.11 ppm	66
11) bis(2-Chloroethyl)ether	4.341	93	257139	20.66 ppm	97
12) 2-Chlorophenol	4.395	128	273667	22.37 ppm	99
13) Decane	4.411	43	309500	21.30 ppm	93
14) 1,3-Dichlorobenzene	4.491	146	309418	23.92 ppm	98
15) 1,4-Dichlorobenzene	4.545	146	314531	24.18 ppm	99
16) Benzyl alcohol	4.652	108	179483	22.28 ppm	88
17) 1,2-Dichlorobenzene	4.662	146	298297	24.94 ppm	99
18) Acetophenone	4.844	105	409747	24.05 ppm	83
19) 2-Methylphenol	4.764	108	248814	23.36 ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.743	121	96341	22.97 ppm #	79
21) 3&4-Methylphenol	4.882	108	274621	24.59 ppm	95
22) n-Nitroso-di-n-propyla...	4.850	70	237019	23.63 ppm	95
23) Hexachloroethane	4.924	201	99827	21.69 ppm	99
26) Nitrobenzene	4.983	77	339449	22.25 ppm	99
27) Quinoline	5.951	129	563965	24.33 ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25715.D
Acq On : 6 May 2016 10:03 pm
Operator : seanb1
Sample : cc1155-25
Misc : op93506,e6p1201
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 07 10:49:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:48:14 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28)	Isophorone	5.181	82	574220	22.50	ppm		95
29)	2-Nitrophenol	5.256	139	160318	26.72	ppm	#	69
30)	2,4-Dimethylphenol	5.310	107	274439	24.24	ppm		99
31)	Benzoic acid	5.443	105	219859	24.65	ppm		95
32)	bis(2-Chloroethoxy)met...	5.368	93	308463	20.50	ppm		99
33)	2,4-Dichlorophenol	5.497	162	228876	24.08	ppm		97
34)	2,6-Dichlorophenol	5.689	162	224944	24.00	ppm		98
35)	1,3,5-Trichlorobenzene	5.261	180	249334	22.02	ppm		97
36)	1,2,4-Trichlorobenzene	5.545	180	243299	22.09	ppm		96
37)	1,2,3-Trichlorobenzene	5.759	180	238223	22.51	ppm		94
38)	Naphthalene	5.614	128	843284	23.89	ppm		99
39)	4-Chloroaniline	5.679	127	326273	22.87	ppm		99
40)	2,3-Dichloroaniline	6.668	161	284548	24.55	ppm		99
41)	Caprolactam	6.042	55	132309	22.40	ppm		97
42)	Hexachlorobutadiene	5.732	225	137755	22.23	ppm		99
43)	4-Chloro-3-methylphenol	6.219	107	288154	25.66	ppm	#	32
44)	2-Methylnaphthalene	6.331	141	495747	26.09	ppm		98
45)	1-Methylnaphthalene	6.443	141	527337	26.61	ppm		98
46)	Dimethylnaphthalene	7.080	156	528938	24.12	ppm		87
48)	Hexachlorocyclopentadiene	6.513	237	242475	37.66	ppm		99
49)	2,4,6-Trichlorophenol	6.684	196	160898	23.50	ppm		93
50)	2,4,5-Trichlorophenol	6.754	196	173518	23.39	ppm		94
52)	2-Chloronaphthalene	6.903	162	532584	23.40	ppm		96
53)	Biphenyl	6.882	154	724468	23.52	ppm		97
54)	2-Nitroaniline	7.059	65	214549	25.92	ppm		89
55)	Dimethylphthalate	7.289	163	643906	24.56	ppm		98
56)	Acenaphthylene	7.433	152	931071	26.72	ppm		99
57)	2,6-Dinitrotoluene	7.369	165	147152	28.39	ppm		99
58)	3-Nitroaniline	7.604	138	170476	27.21	ppm		91
59)	Acenaphthene	7.663	153	580973	24.64	ppm		98
60)	2,4-Dinitrophenol	7.759	184	141694	45.77	ppm	#	99
61)	4-Nitrophenol	7.962	109	99705	25.67	ppm		82
62)	Dibenzofuran	7.909	168	789736	25.19	ppm		94
63)	2,4-Dinitrotoluene	7.930	165	200982	29.45	ppm		99
64)	2,3,4,6-Tetrachlorophenol	8.118	232	127190	20.20	ppm		89
65)	Diethylphthalate	8.278	149	692777	27.41	ppm		95
66)	Fluorene	8.390	166	666875	25.37	ppm		99
67)	4-Chlorophenyl-phenyle...	8.406	204	293566	21.42	ppm		82
68)	4-Nitroaniline	8.471	138	169988	27.29	ppm		85
70)	4,6-Dinitro-2-methylph...	8.529	198	106036	24.32	ppm		73
71)	n-Nitrosodiphenylamine	8.594	169	451697	24.49	ppm		99
72)	1,2-Diphenylhydrazine	8.642	77	739528	25.00	ppm		97
74)	4-Bromophenyl-phenylether	9.128	248	161668	22.51	ppm		85
75)	Hexachlorobenzene	9.214	284	180840	24.62	ppm		94
76)	Pentachlorophenol	9.546	266	198999	43.49	ppm		98
77)	Phenanthrene	9.818	178	905282	23.37	ppm		99
78)	Anthracene	9.899	178	930118	24.20	ppm		98
79)	Carbazole	10.187	167	872367	25.81	ppm		97
80)	Di-n-butylphthalate	10.797	149	1176847	29.40	ppm		100
81)	Fluoranthene	11.674	202	997488	23.77	ppm		99

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25715.D
Acq On : 6 May 2016 10:03 pm
Operator : seanb1
Sample : cc1155-25
Misc : op93506,e6p1201
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 07 10:49:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:48:14 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82)	Octadecane	9.738	57	447096	24.50	ppm	97
84)	Pyrene	12.022	202	1024416	25.78	ppm	98
86)	Butylbenzylphthalate	13.167	149	522833	33.53	ppm	95
87)	Butyl stearate	13.338	56	300494	28.19	ppm	99
88)	Benzo[a]anthracene	13.948	228	856975	23.94	ppm	99
89)	3,3'-Dichlorobenzidine	13.958	252	341060	29.50	ppm	94
90)	Chrysene	14.006	228	797905	22.23	ppm	99
91)	bis(2-Ethylhexyl)phtha...	14.129	149	667920	31.23	ppm	98
93)	Di-n-octylphthalate	15.119	149	1122527	35.46	ppm	99
94)	Benzo[b]fluoranthene	15.563	252	834674	27.25	ppm	99
95)	Benzo[k]fluoranthene	15.600	252	725763	24.91	ppm	98
96)	Benzo[a]pyrene	16.001	252	668300	25.07	ppm	97
97)	Indeno[1,2,3-cd]pyrene	17.424	276	593006m	23.62	ppm	
98)	Dibenz(a,h)acridine	17.146	279	556958	24.19	ppm	99
99)	Dibenz[a,h]anthracene	17.446	278	659210	24.20	ppm	99
100)	7,12-Dimethylbenz(a)an...	15.558	256	360249	29.48	ppm	97
101)	Benzo[g,h,i]perylene	17.750	276	611568	22.25	ppm	97

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

7.6.41

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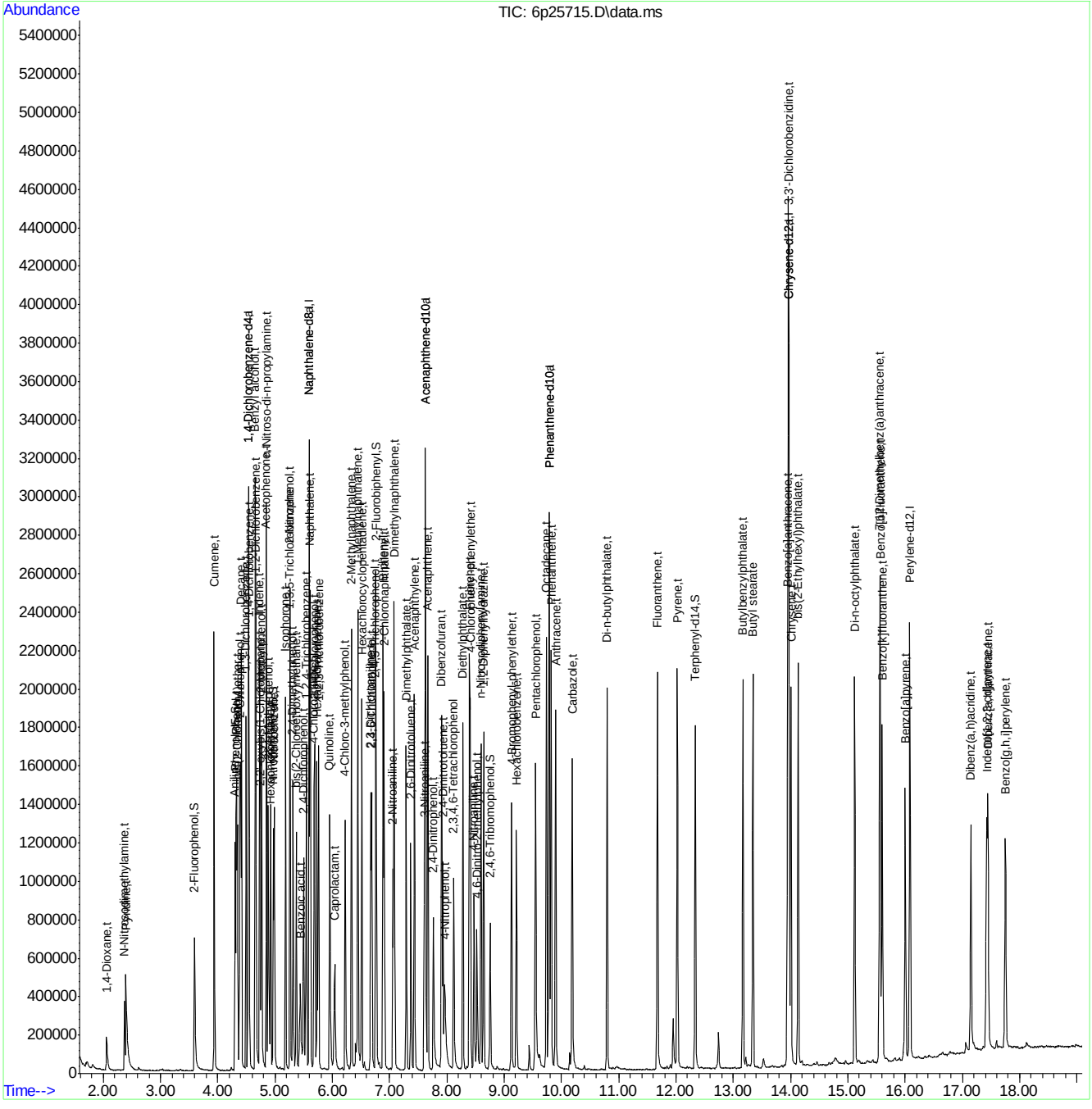
SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25715.D
Acq On : 6 May 2016 10:03 pm
Operator : seanb1
Sample : cc1155-25
Misc : op93506,e6p1201
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 07 10:49:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:48:14 2016
Response via : Initial Calibration



M6P1155.M Sat May 07 10:49:42 2016 ACLIMS Page: 4

SGS ACCUTEST JC19759

Manual Integration Approval Summary

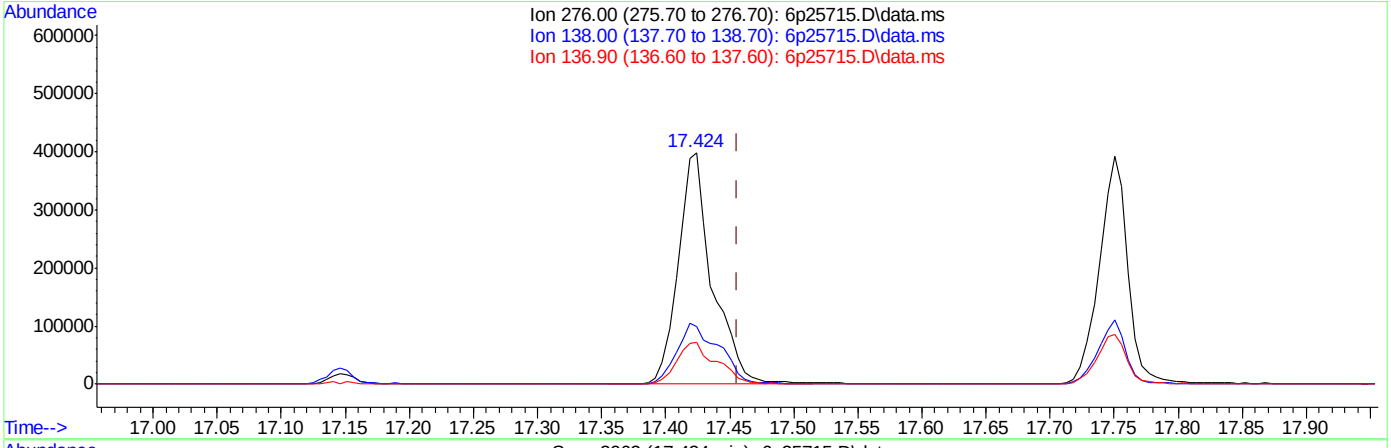
Sample Number:	E6P1201-CC1155	**Method:**	SW846 8270D
Lab FileID:	6P25715.D	**Analyst approved:**	05/07/16 10:48 Kristi Schollenberger
Injection Time:	05/06/16 22:03	**Supervisor approved:**	05/09/16 09:11 Nina Pandya

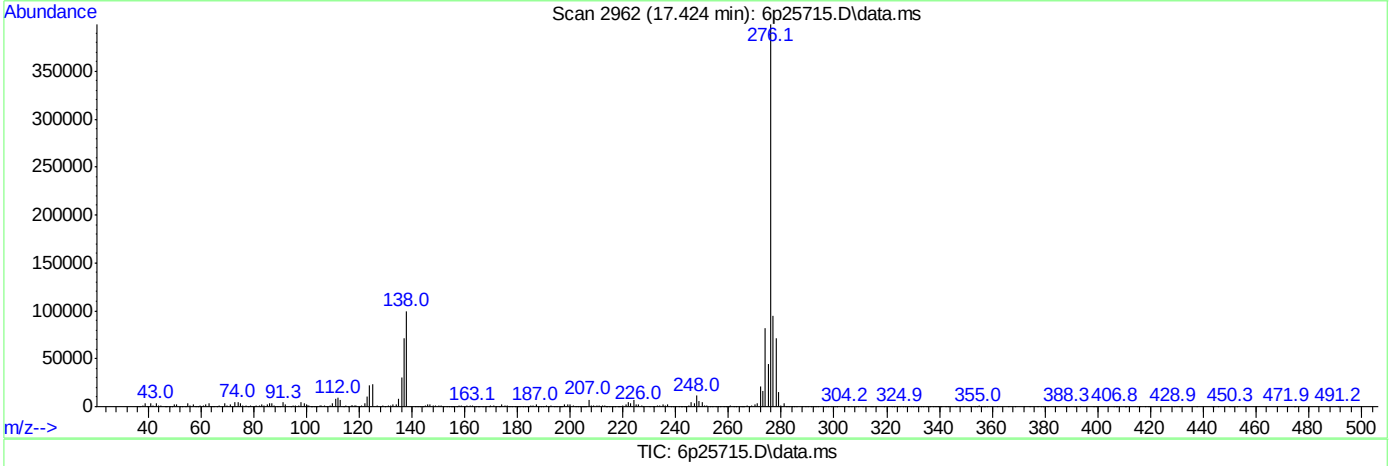
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.42	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25715.D
Acq On : 6 May 2016 10:03 pm
Operator : seanb1
Sample : cc1155-25
Misc : op93506,e6p1201
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 07 10:48:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:48:14 2016
Response via : Initial Calibration





TIC: 6p25715.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.424min (-0.032) 29.58ppm

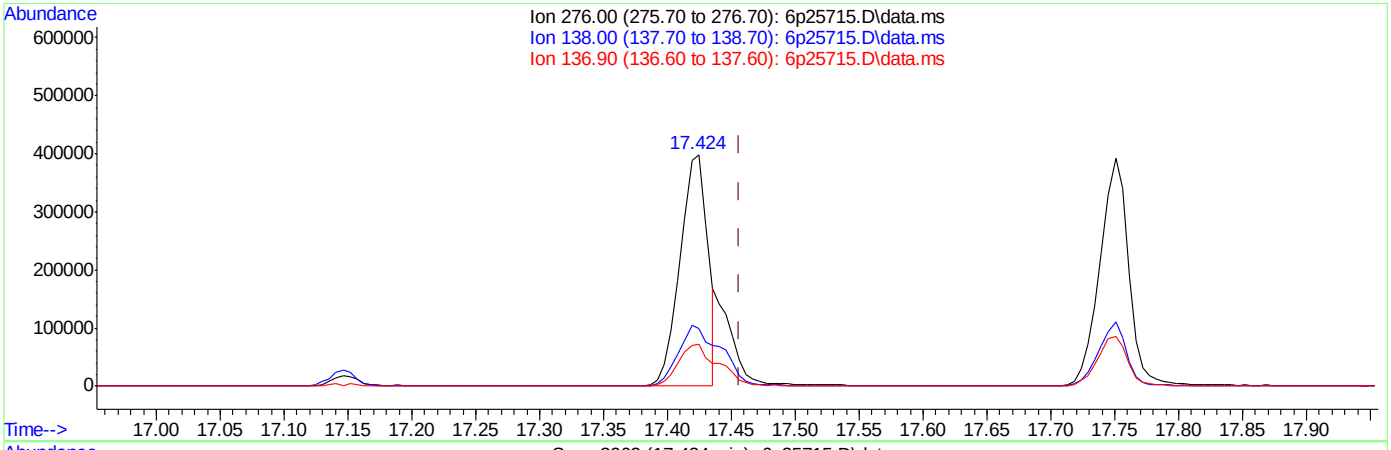
response 742537

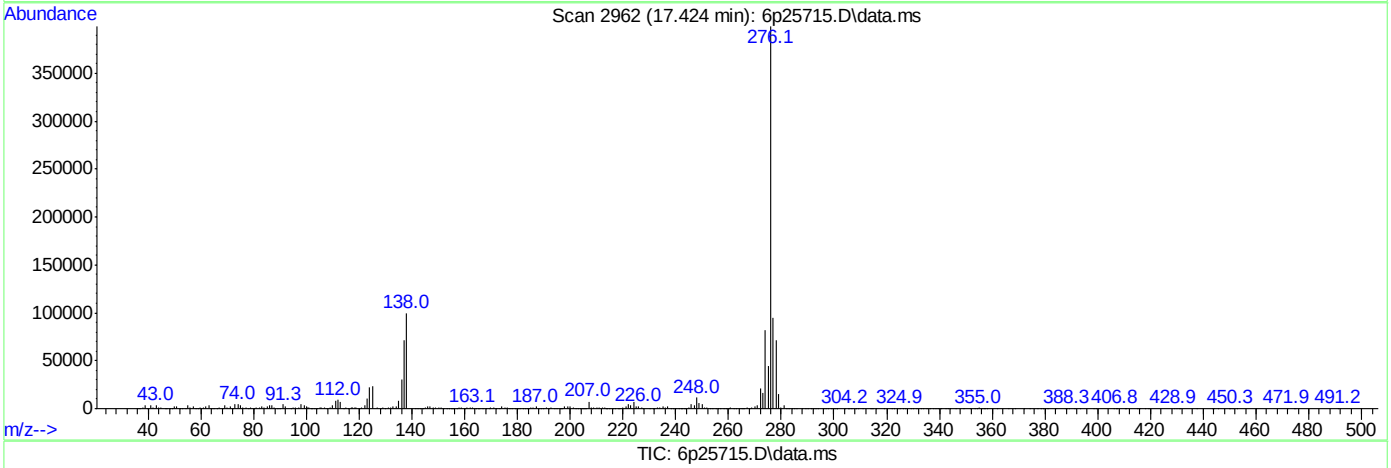
Ion	Exp%	Act%
276.00	100	100
138.00	23.50	24.80
136.90	16.60	17.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25715.D
Acq On : 6 May 2016 10:03 pm
Operator : seanb1
Sample : cc1155-25
Misc : op93506,e6p1201
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 07 10:48:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuSat May 07 10:22:18 2016
QLast Update : Sat May 07 10:48:14 2016
Response via : Initial Calibration





TIC: 6p25715.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.424min (-0.032) 23.62ppm m

response 593006

Ion	Exp%	Act%
276.00	100	100
138.00	23.50	24.94
136.90	16.60	17.97
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25716.D
Acq On : 6 May 2016 10:30 pm
Operator : seanb1
Sample : cc1156-25
Misc : op93506,e6p1201
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 07 10:16:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.534	152	281283	40.00	ppm	-0.02
24) Naphthalene-d8	5.593	136	1170518	40.00	ppm	-0.06
47) Acenaphthene-d10	7.620	164	684631	40.00	ppm	-0.08
69) Phenanthrene-d10	9.781	188	1153694	40.00	ppm	-0.10
83) Chrysene-d12	13.958	240	1139412	40.00	ppm	-0.05
92) Perylene-d12	16.082	264	986524	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.534	152	281283	40.00	ppm	-0.05
104) Acenaphthene-d10a	7.620	164	684631	40.00	ppm	-0.05
106) Phenanthrene-d10a	9.781	188	1153694	40.00	ppm	-0.09
108) Chrysene-d12a	13.958	240	1139412	40.00	ppm	-0.07
110) Naphthalene-d8a	5.593	136	1170518	40.00	ppm	-0.05
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%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.213	105	177562	20.39	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.529	216	210552	19.40	ppm	99
107) Atrazine	9.439	215	82720	26.56	ppm	87
109) benzidine	11.947	184	327602	22.91	ppm	99
111) Hydroquinone	6.069	110	241700	26.28	ppm	90

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

7.6.42

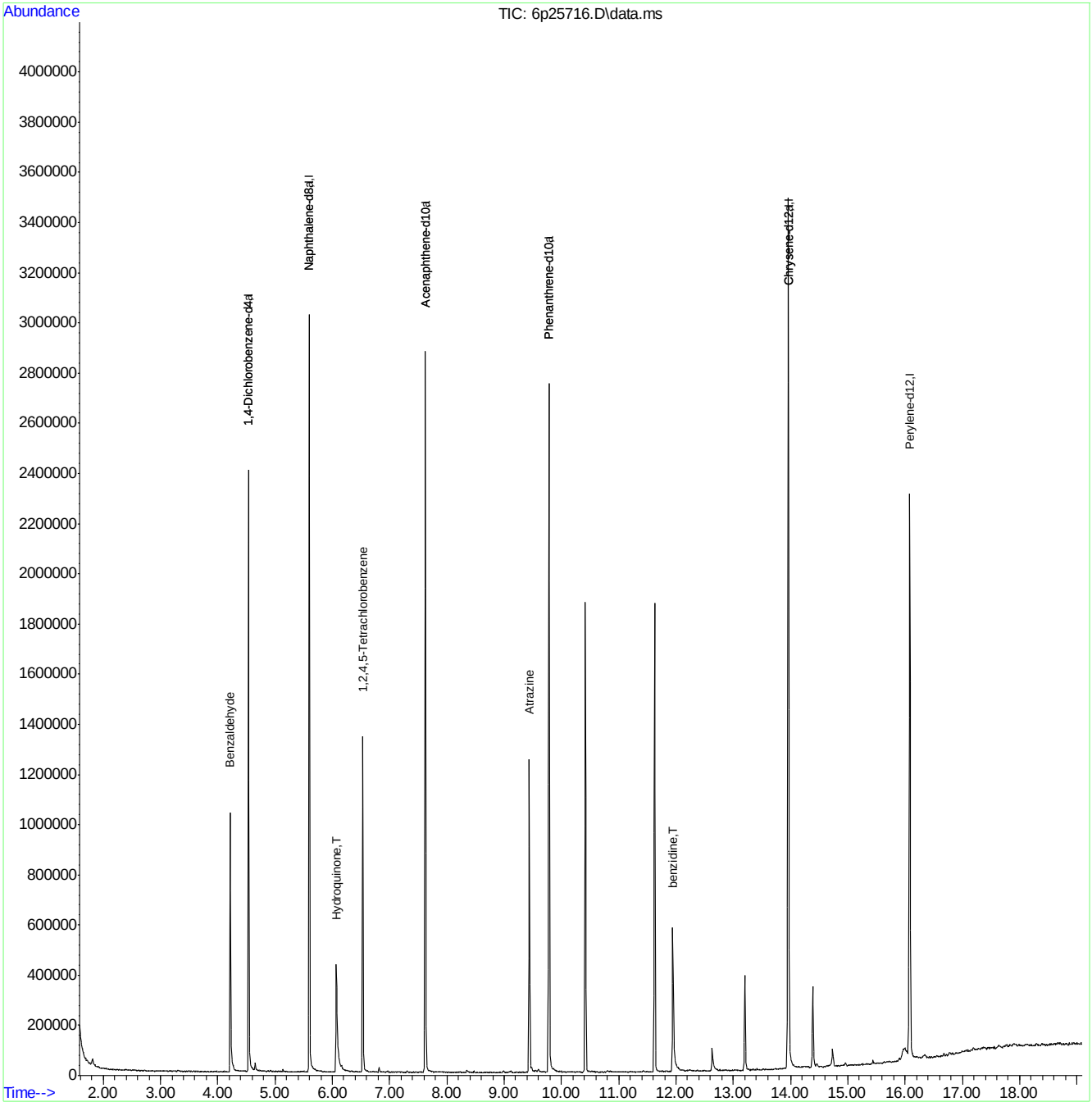
7

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1201\
Data File : 6p25716.D
Acq On : 6 May 2016 10:30 pm
Operator : seanb1
Sample : cc1156-25
Misc : op93506,e6p1201
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 07 10:16:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1155.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu May 05 09:52:33 2016
QLast Update : Thu May 05 09:52:33 2016
Response via : Initial Calibration



M6P1155.M Sat May 07 10:16:25 2016 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104412.D Vial: 2
Acq On : 27 Apr 2016 3:34 pm Operator: linseyk
Sample : ic4601-100 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 08:32:59 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	49059	40.00	ppm	0.00
24) Naphthalene-d8	5.99	136	182534	40.00	ppm	0.00
47) Acenaphthene-d10	8.71	164	98855	40.00	ppm	0.00
69) Phenanthrene-d10	11.07	188	164096	40.00	ppm	0.00
83) Chrysene-d12	15.76	240	149489	40.00	ppm	0.00
92) Perylene-d12	18.31	264	130174	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.24	152	49059	40.00	ppm	0.00
112) Naphthalene-d8A	5.99	136	182534	40.00	ppm	0.00
121) Acenaphthene-d10A	8.71	164	98855	40.00	ppm	0.00
132) Phenanthrene-d10A	11.07	188	164096	40.00	ppm	0.00
147) Chrysene-d12A	15.76	240	149489	40.00	ppm	0.00
155) Perylene-d12A	18.31	264	130174	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.24	152	49059	40.00	ppm	0.00
161) Phenanthrene-d10b	11.07	188	164096	40.00	ppm	0.00
163) Chrysene-d12b	15.76	240	149489	40.00	ppm	0.00
165) Naphthalene-d8b	5.99	136	182534	40.00	ppm	0.00
167) Acenaphthene-d10b	8.71	164	98855	40.00	ppm	0.00
169) Naphthalene-d8c	5.99	136	182534	40.00	ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	49059	40.00	ppm	0.07
176) Chrysene-d12c	15.76	240	149489	40.00	ppm	0.00
178) Chrysene-d12d	15.76	240	149489	40.00	ppm	0.00
180) Naphthalene-d8d	5.99	136	182534	40.00	ppm	0.00

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
160) Benzaldehyde	3.73	105	121106	100.00	ppm	93
162) Atrazine	10.75	200	69902	100.00	ppm	74
164) Benzidine	13.44	184	187692	100.00	ppm	97
166) Hydroquinone	6.69	110	157047	100.00	ppm	95
168) 1,2,4,5-Tetrachlorobenzene	7.34	216	126800	100.00	ppm	99

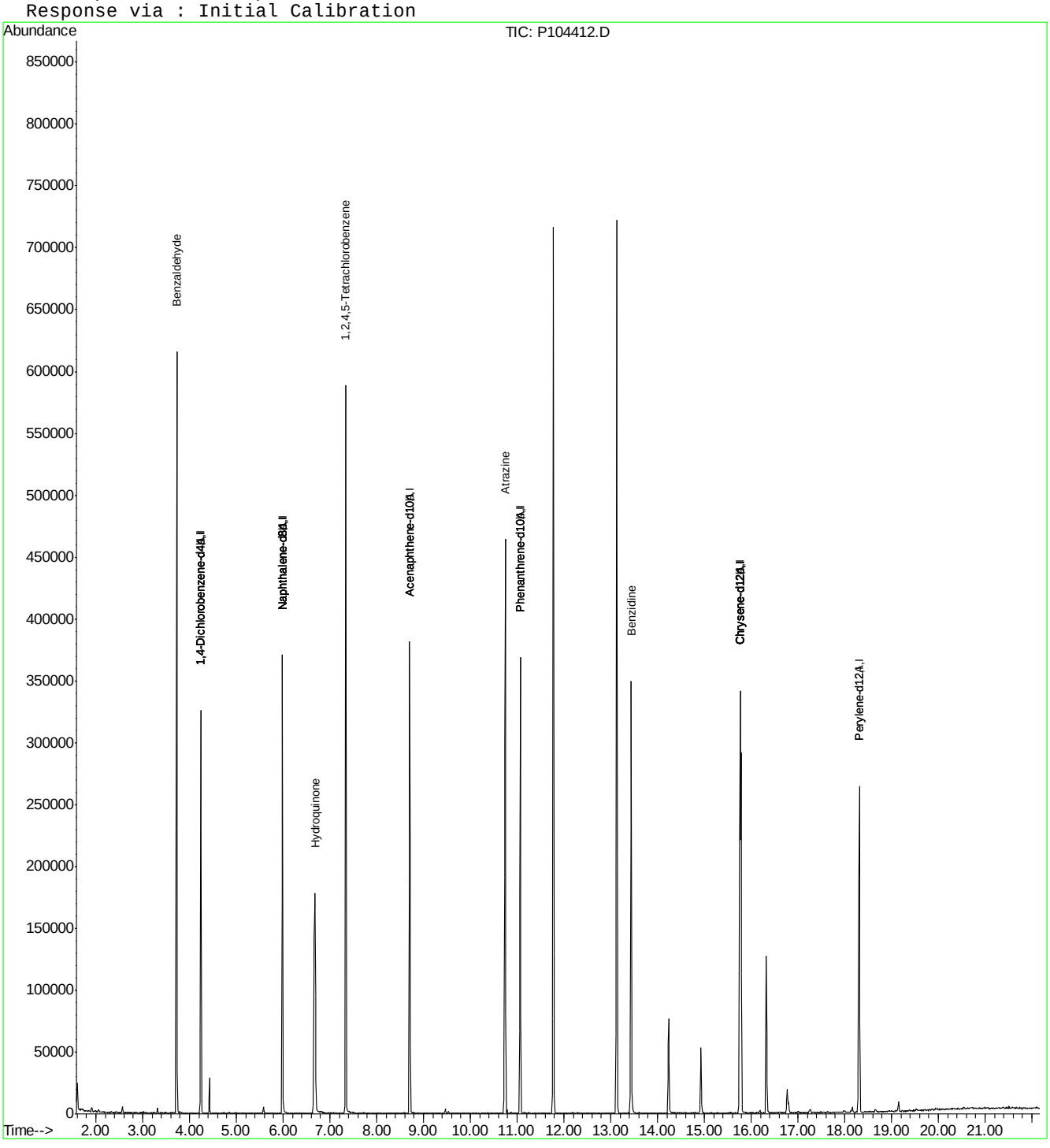
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104412.D Vial: 2
Acq On : 27 Apr 2016 3:34 pm Operator: linseyk
Sample : ic4601-100 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:33 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 10:17:45 2016
Response via : Initial Calibration



P104412.D MP4600.M Fri Apr 29 15:03:04 2016 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104413.D Vial: 3
Acq On : 27 Apr 2016 4:03 pm Operator: linseyk
Sample : ic4601-80 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 08:33:01 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	48389	40.00	ppm	0.00
24) Naphthalene-d8	5.98	136	183651	40.00	ppm	0.00
47) Acenaphthene-d10	8.70	164	98066	40.00	ppm	0.00
69) Phenanthrene-d10	11.07	188	165272	40.00	ppm	0.00
83) Chrysene-d12	15.76	240	154156	40.00	ppm	-0.01
92) Perylene-d12	18.31	264	136754	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.24	152	48389	40.00	ppm	0.00
112) Naphthalene-d8A	5.98	136	183651	40.00	ppm	0.00
121) Acenaphthene-d10A	8.70	164	98066	40.00	ppm	0.00
132) Phenanthrene-d10A	11.07	188	165272	40.00	ppm	0.00
147) Chrysene-d12A	15.76	240	154156	40.00	ppm	-0.01
155) Perylene-d12A	18.31	264	136754	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.24	152	48389	40.00	ppm	0.00
161) Phenanthrene-d10b	11.07	188	165272	40.00	ppm	0.00
163) Chrysene-d12b	15.76	240	154156	40.00	ppm	0.00
165) Naphthalene-d8b	5.98	136	183651	40.00	ppm	0.00
167) Acenaphthene-d10b	8.70	164	98066	40.00	ppm	0.00
169) Naphthalene-d8c	5.98	136	183651	40.00	ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	48389	40.00	ppm	0.07
176) Chrysene-d12c	15.76	240	154156	40.00	ppm	-0.01
178) Chrysene-d12d	15.76	240	154156	40.00	ppm	-0.01
180) Naphthalene-d8d	5.98	136	183651	40.00	ppm	0.00

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%			

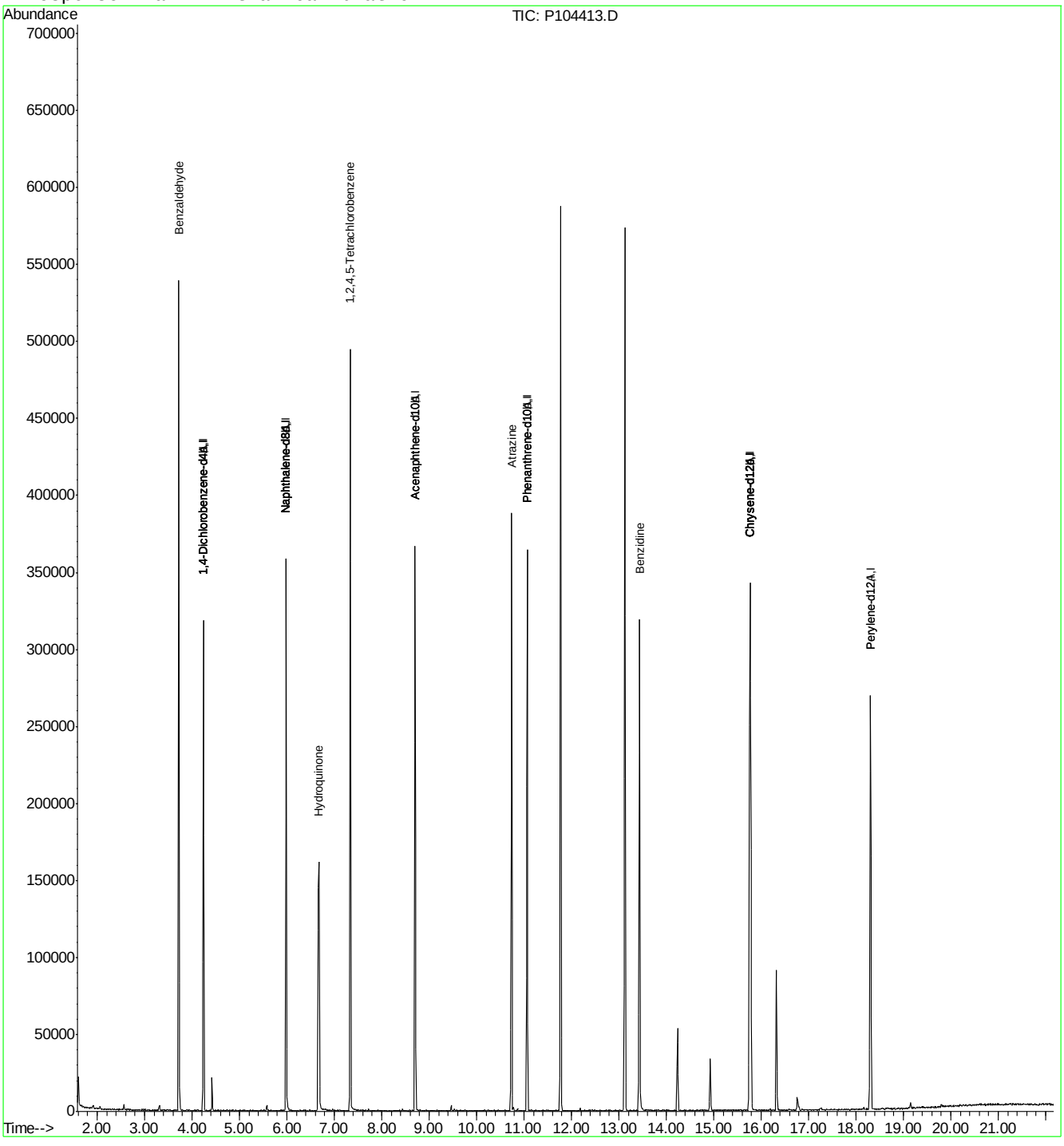
Target Compounds						Qvalue
160) Benzaldehyde	3.72	105	96984	81.19	ppm	91
162) Atrazine	10.74	200	56761	80.62	ppm	73
164) Benzidine	13.44	184	174632	90.22	ppm	97
166) Hydroquinone	6.68	110	125572	79.47	ppm	95
168) 1,2,4,5-Tetrachlorobenzene	7.34	216	102362	81.38	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
P104413.D MP4600.M Thu Apr 28 08:34:52 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104413.D Vial: 3
Acq On : 27 Apr 2016 4:03 pm Operator: linseyk
Sample : ic4601-80 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:34 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104414.D Vial: 4
Acq On : 27 Apr 2016 4:32 pm Operator: linseyk
Sample : icc4601-50 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 08:33:03 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	47052	40.00	ppm	0.00
24) Naphthalene-d8	5.98	136	177089	40.00	ppm	0.00
47) Acenaphthene-d10	8.71	164	96674	40.00	ppm	0.00
69) Phenanthrene-d10	11.07	188	168336	40.00	ppm	0.00
83) Chrysene-d12	15.76	240	158421	40.00	ppm	-0.01
92) Perylene-d12	18.31	264	142193	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.24	152	47052	40.00	ppm	0.00
112) Naphthalene-d8A	5.98	136	177089	40.00	ppm	0.00
121) Acenaphthene-d10A	8.71	164	96674	40.00	ppm	0.00
132) Phenanthrene-d10A	11.07	188	168336	40.00	ppm	0.00
147) Chrysene-d12A	15.76	240	158421	40.00	ppm	-0.01
155) Perylene-d12A	18.31	264	142193	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.24	152	47052	40.00	ppm	0.00
161) Phenanthrene-d10b	11.07	188	168336	40.00	ppm	0.00
163) Chrysene-d12b	15.76	240	158421	40.00	ppm	0.00
165) Naphthalene-d8b	5.98	136	177089	40.00	ppm	0.00
167) Acenaphthene-d10b	8.71	164	96674	40.00	ppm	0.00
169) Naphthalene-d8c	5.98	136	177089	40.00	ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	47052	40.00	ppm	0.07
176) Chrysene-d12c	15.76	240	158421	40.00	ppm	-0.01
178) Chrysene-d12d	15.76	240	158421	40.00	ppm	-0.01
180) Naphthalene-d8d	5.98	136	177089	40.00	ppm	0.00

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
160) Benzaldehyde	3.72	105	63971	55.08	ppm	91
162) Atrazine	10.74	200	37912	52.87	ppm	88
164) Benzidine	13.43	184	129822	65.27	ppm	97
166) Hydroquinone	6.67	110	79224	52.00	ppm	96
168) 1,2,4,5-Tetrachlorobenzene	7.34	216	65281	52.64	ppm	99

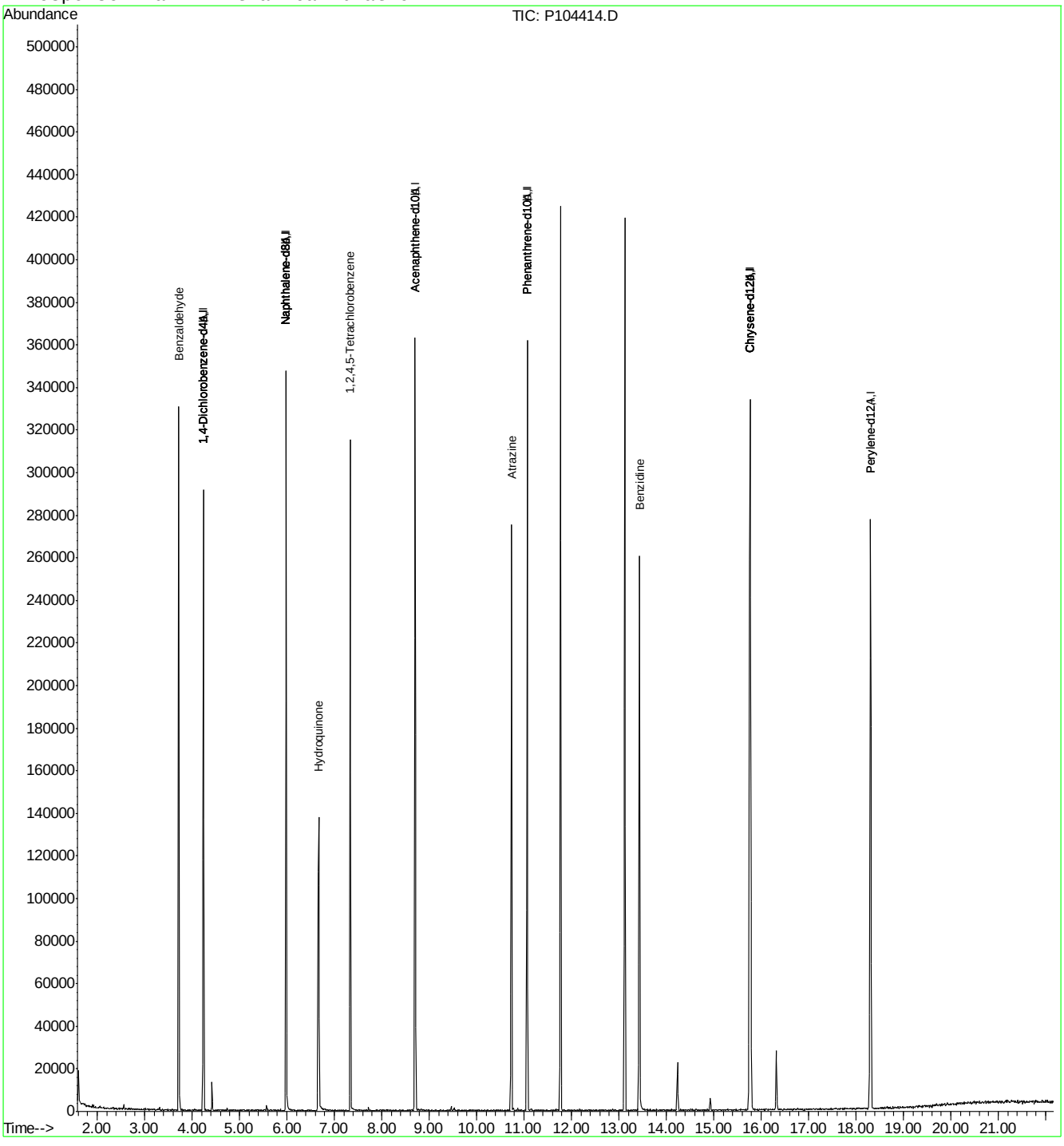
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104414.D Vial: 4
Acq On : 27 Apr 2016 4:32 pm Operator: linseyk
Sample : icc4601-50 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:35 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104415.D Vial: 5
Acq On : 27 Apr 2016 5:01 pm Operator: linseyk
Sample : ic4601-25 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 08:33:05 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	49498	40.00 ppm	0.00
24) Naphthalene-d8	5.99	136	179688	40.00 ppm	0.00
47) Acenaphthene-d10	8.70	164	98625	40.00 ppm	0.00
69) Phenanthrene-d10	11.07	188	169879	40.00 ppm	0.00
83) Chrysene-d12	15.76	240	157189	40.00 ppm	0.00
92) Perylene-d12	18.31	264	140092	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.24	152	49498	40.00 ppm	0.00
112) Naphthalene-d8A	5.99	136	179688	40.00 ppm	0.00
121) Acenaphthene-d10A	8.70	164	98625	40.00 ppm	0.00
132) Phenanthrene-d10A	11.07	188	169879	40.00 ppm	0.00
147) Chrysene-d12A	15.76	240	157189	40.00 ppm	0.00
155) Perylene-d12A	18.31	264	140092	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.24	152	49498	40.00 ppm	0.00
161) Phenanthrene-d10b	11.07	188	169879	40.00 ppm	0.00
163) Chrysene-d12b	15.76	240	157189	40.00 ppm	0.00
165) Naphthalene-d8b	5.99	136	179688	40.00 ppm	0.00
167) Acenaphthene-d10b	8.70	164	98625	40.00 ppm	0.00
169) Naphthalene-d8c	5.99	136	179688	40.00 ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	49498	40.00 ppm	0.07
176) Chrysene-d12c	15.76	240	157189	40.00 ppm	0.00
178) Chrysene-d12d	15.76	240	157189	40.00 ppm	0.00
180) Naphthalene-d8d	5.99	136	179688	40.00 ppm	0.00

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
160) Benzaldehyde	3.72	105	32057	26.24 ppm	86
162) Atrazine	10.73	200	19548	27.01 ppm	71
164) Benzidine	13.43	184	68581	34.75 ppm	98
166) Hydroquinone	6.66	110	37614	24.33 ppm	95
168) 1,2,4,5-Tetrachlorobenzene	7.33	216	33307	26.33 ppm	98

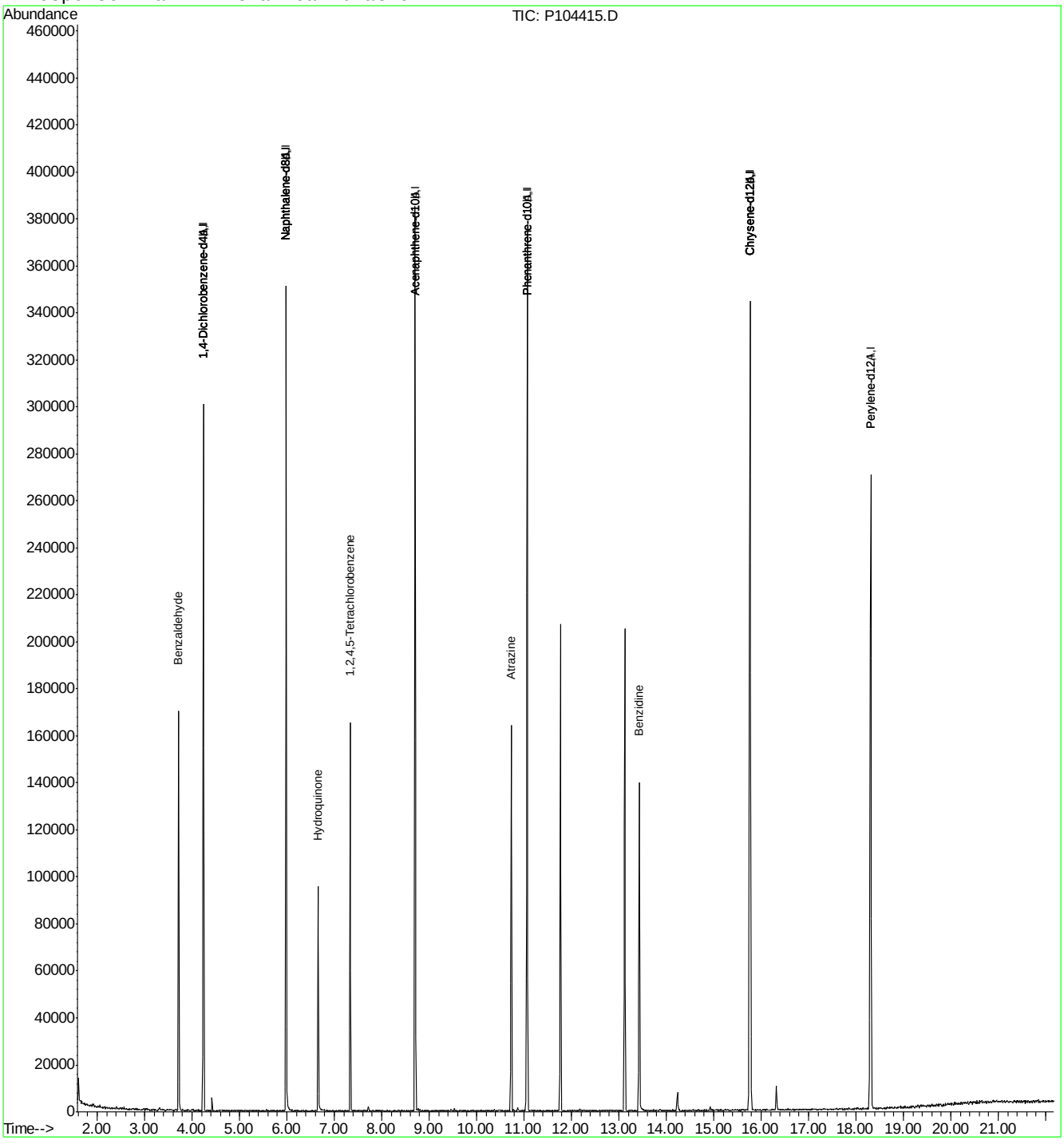
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104415.D Vial: 5
Acq On : 27 Apr 2016 5:01 pm Operator: linseyk
Sample : ic4601-25 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:36 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104416.D Vial: 6
Acq On : 27 Apr 2016 5:30 pm Operator: linseyk
Sample : ic4601-10 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 08:33:07 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	47616	40.00	ppm	0.00
24) Naphthalene-d8	5.99	136	174189	40.00	ppm	0.00
47) Acenaphthene-d10	8.70	164	93926	40.00	ppm	0.00
69) Phenanthrene-d10	11.06	188	162329	40.00	ppm	0.00
83) Chrysene-d12	15.76	240	150312	40.00	ppm	-0.01
92) Perylene-d12	18.31	264	134351	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.24	152	47616	40.00	ppm	0.00
112) Naphthalene-d8A	5.99	136	174189	40.00	ppm	0.00
121) Acenaphthene-d10A	8.70	164	93926	40.00	ppm	0.00
132) Phenanthrene-d10A	11.06	188	162329	40.00	ppm	0.00
147) Chrysene-d12A	15.76	240	150312	40.00	ppm	-0.01
155) Perylene-d12A	18.31	264	134351	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.24	152	47616	40.00	ppm	0.00
161) Phenanthrene-d10b	11.06	188	162329	40.00	ppm	0.00
163) Chrysene-d12b	15.76	240	150312	40.00	ppm	0.00
165) Naphthalene-d8b	5.99	136	174189	40.00	ppm	0.00
167) Acenaphthene-d10b	8.70	164	93926	40.00	ppm	0.00
169) Naphthalene-d8c	5.99	136	174189	40.00	ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	47616	40.00	ppm	0.07
176) Chrysene-d12c	15.76	240	150312	40.00	ppm	-0.01
178) Chrysene-d12d	15.76	240	150312	40.00	ppm	-0.01
180) Naphthalene-d8d	5.99	136	174189	40.00	ppm	0.00

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
160) Benzaldehyde	3.72	105	12923	10.99	ppm	90
162) Atrazine	10.73	200	8217	11.88	ppm	86
164) Benzidine	13.43	184	26410	13.99	ppm	96
166) Hydroquinone	6.65	110	14663	9.78	ppm	90
168) 1,2,4,5-Tetrachlorobenzene	7.33	216	14384	11.94	ppm	97

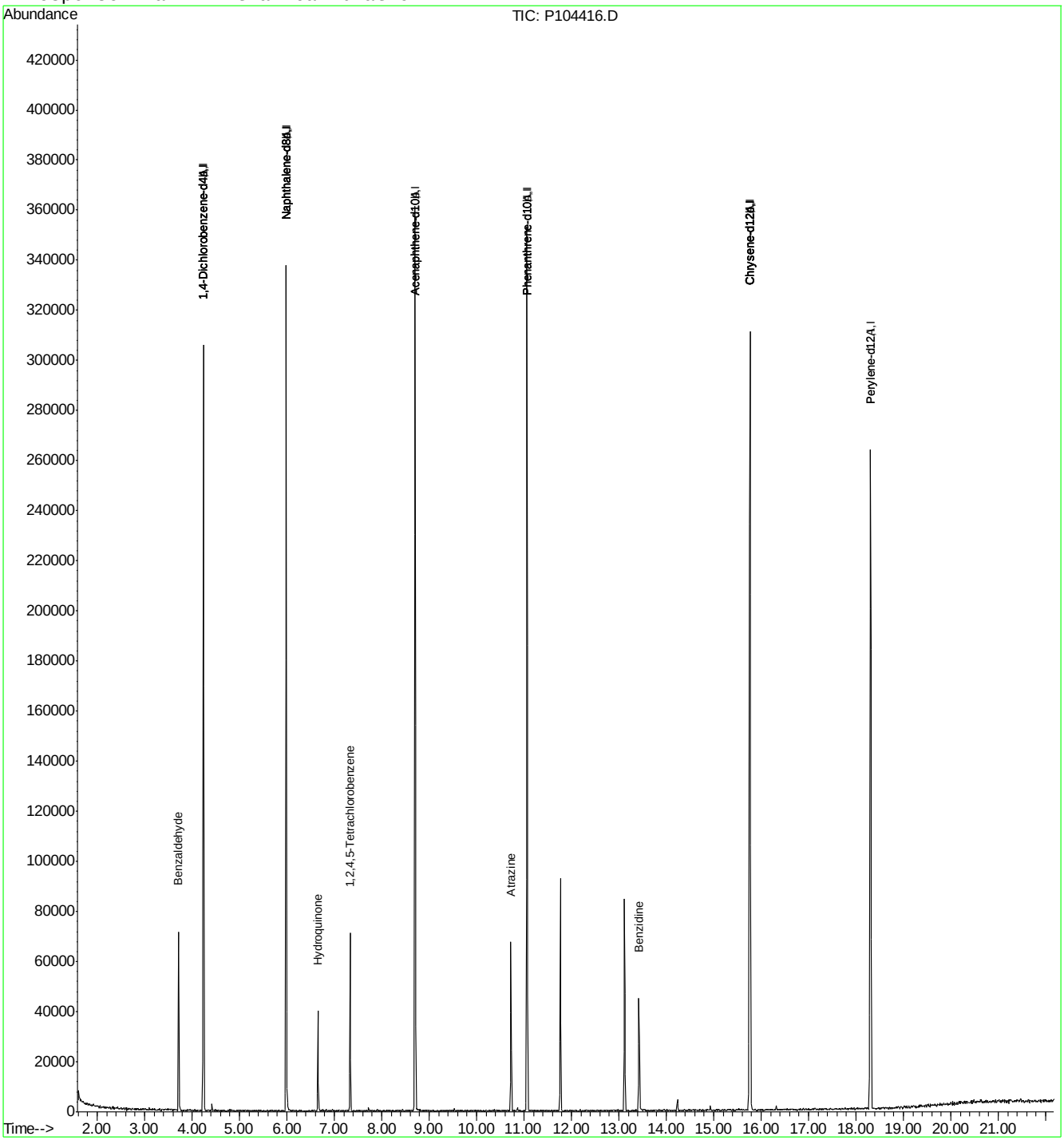
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104416.D Vial: 6
Acq On : 27 Apr 2016 5:30 pm Operator: linseyk
Sample : ic4601-10 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:37 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104417.D Vial: 7
Acq On : 27 Apr 2016 6:00 pm Operator: linseyk
Sample : ic4601-5 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 08:33:09 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	48925	40.00	ppm	0.00
24) Naphthalene-d8	5.99	136	178587	40.00	ppm	0.00
47) Acenaphthene-d10	8.71	164	97671	40.00	ppm	0.00
69) Phenanthrene-d10	11.07	188	168846	40.00	ppm	0.00
83) Chrysene-d12	15.76	240	157363	40.00	ppm	-0.01
92) Perylene-d12	18.31	264	140919	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.24	152	48925	40.00	ppm	0.00
112) Naphthalene-d8A	5.99	136	178587	40.00	ppm	0.00
121) Acenaphthene-d10A	8.71	164	97671	40.00	ppm	0.00
132) Phenanthrene-d10A	11.07	188	168846	40.00	ppm	0.00
147) Chrysene-d12A	15.76	240	157363	40.00	ppm	-0.01
155) Perylene-d12A	18.31	264	140919	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.24	152	48925	40.00	ppm	0.00
161) Phenanthrene-d10b	11.07	188	168846	40.00	ppm	0.00
163) Chrysene-d12b	15.76	240	157363	40.00	ppm	0.00
165) Naphthalene-d8b	5.99	136	178587	40.00	ppm	0.00
167) Acenaphthene-d10b	8.71	164	97671	40.00	ppm	0.00
169) Naphthalene-d8c	5.99	136	178587	40.00	ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	48925	40.00	ppm	0.07
176) Chrysene-d12c	15.76	240	157363	40.00	ppm	-0.01
178) Chrysene-d12d	15.76	240	157363	40.00	ppm	-0.01
180) Naphthalene-d8d	5.99	136	178587	40.00	ppm	0.00

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
160) Benzaldehyde	3.72	105	6196	5.13	ppm		77
162) Atrazine	10.73	200	3862	5.37	ppm	#	64
164) Benzidine	13.42	184	11183	5.66	ppm		96
166) Hydroquinone	6.65	110	5826	3.79	ppm		95
168) 1,2,4,5-Tetrachlorobenzene	7.33	216	6641	5.30	ppm		94

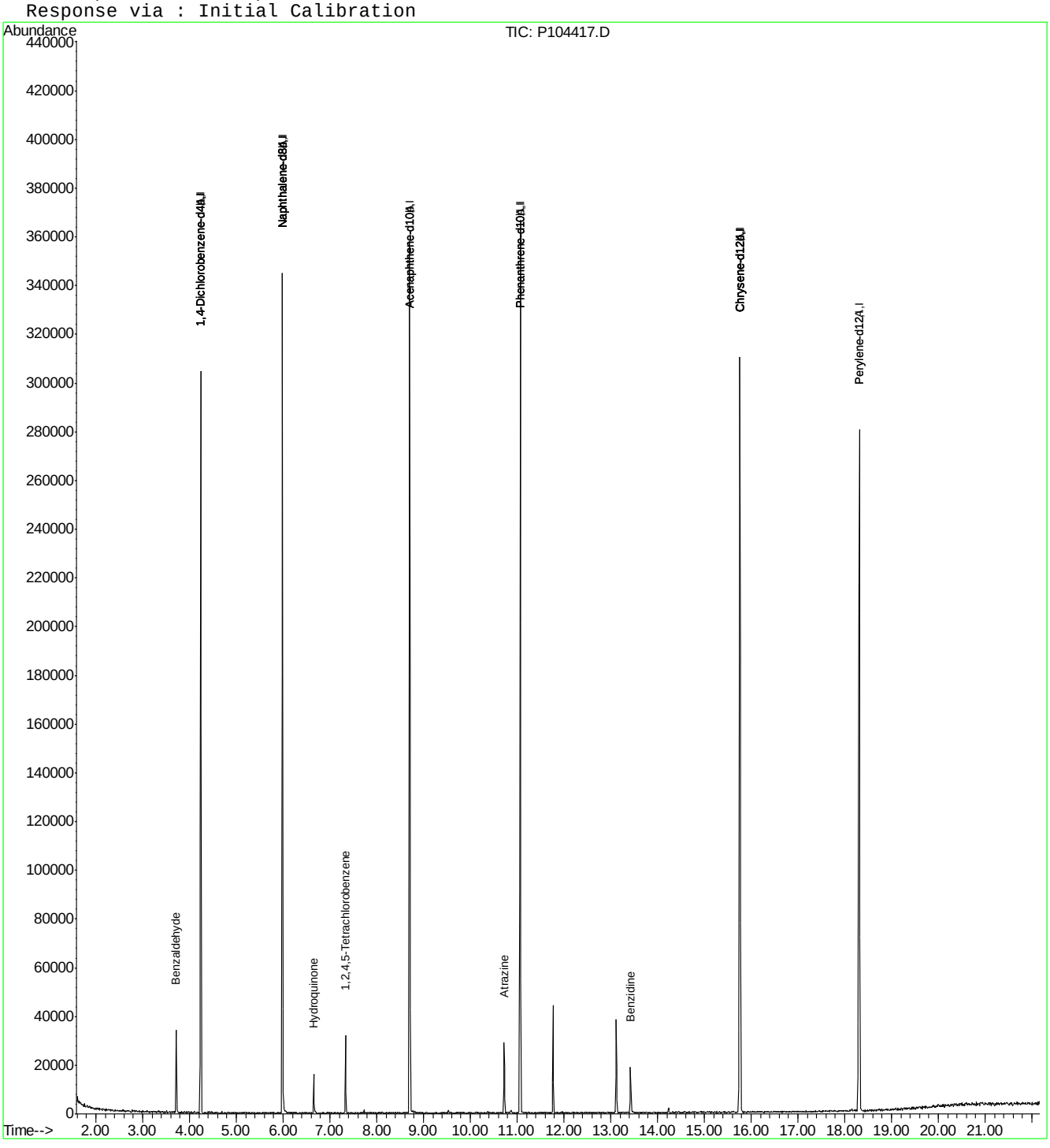
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104417.D Vial: 7
Acq On : 27 Apr 2016 6:00 pm Operator: linseyk
Sample : ic4601-5 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:37 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104418.D Vial: 8
Acq On : 27 Apr 2016 6:29 pm Operator: linseyk
Sample : ic4601-2 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 08:33:11 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	46595	40.00	ppm	0.00
24) Naphthalene-d8	5.99	136	174085	40.00	ppm	0.00
47) Acenaphthene-d10	8.70	164	95919	40.00	ppm	0.00
69) Phenanthrene-d10	11.07	188	165564	40.00	ppm	0.00
83) Chrysene-d12	15.76	240	156821	40.00	ppm	-0.01
92) Perylene-d12	18.31	264	137195	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.24	152	46595	40.00	ppm	0.00
112) Naphthalene-d8A	5.99	136	174085	40.00	ppm	0.00
121) Acenaphthene-d10A	8.70	164	95919	40.00	ppm	0.00
132) Phenanthrene-d10A	11.07	188	165564	40.00	ppm	0.00
147) Chrysene-d12A	15.76	240	156821	40.00	ppm	-0.01
155) Perylene-d12A	18.31	264	137195	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.24	152	46595	40.00	ppm	0.00
161) Phenanthrene-d10b	11.07	188	165564	40.00	ppm	0.00
163) Chrysene-d12b	15.76	240	156821	40.00	ppm	0.00
165) Naphthalene-d8b	5.99	136	174085	40.00	ppm	0.00
167) Acenaphthene-d10b	8.70	164	95919	40.00	ppm	0.00
169) Naphthalene-d8c	5.99	136	174085	40.00	ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	46595	40.00	ppm	0.07
176) Chrysene-d12c	15.76	240	156821	40.00	ppm	-0.01
178) Chrysene-d12d	15.76	240	156821	40.00	ppm	-0.01
180) Naphthalene-d8d	5.99	136	174085	40.00	ppm	0.00

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
160) Benzaldehyde	3.72	105	2601	2.26	ppm		91
162) Atrazine	10.73	200	1306	1.85	ppm	#	59
164) Benzidine	13.42	184	3886	1.97	ppm		94
166) Hydroquinone	6.65	110	2282	1.52	ppm		94
168) 1,2,4,5-Tetrachlorobenzene	7.33	216	2606	2.12	ppm		96

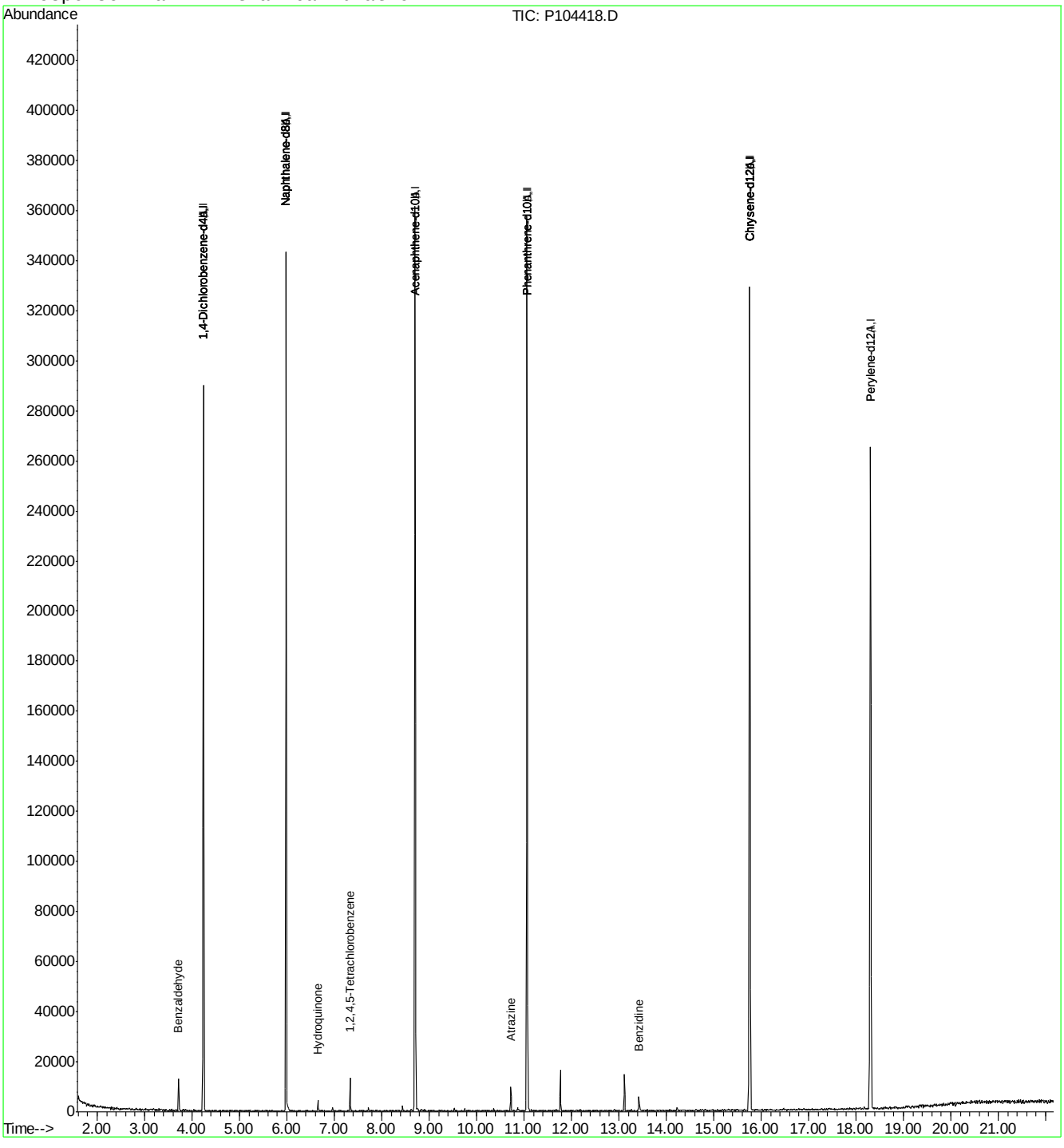
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104418.D Vial: 8
Acq On : 27 Apr 2016 6:29 pm Operator: linseyk
Sample : ic4601-2 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:38 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration



P104418.D MP4600.M Thu Apr 28 08:38:43 2016 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104419.D Vial: 9
Acq On : 27 Apr 2016 6:58 pm Operator: linseyk
Sample : ic4601-1 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 08:33:13 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	46422	40.00	ppm	0.00
24) Naphthalene-d8	5.98	136	172914	40.00	ppm	0.00
47) Acenaphthene-d10	8.71	164	96036	40.00	ppm	0.00
69) Phenanthrene-d10	11.06	188	165326	40.00	ppm	0.00
83) Chrysene-d12	15.76	240	155449	40.00	ppm	-0.01
92) Perylene-d12	18.31	264	135566	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.24	152	46422	40.00	ppm	0.00
112) Naphthalene-d8A	5.98	136	172914	40.00	ppm	0.00
121) Acenaphthene-d10A	8.71	164	96036	40.00	ppm	0.00
132) Phenanthrene-d10A	11.06	188	165326	40.00	ppm	0.00
147) Chrysene-d12A	15.76	240	155449	40.00	ppm	-0.01
155) Perylene-d12A	18.31	264	135566	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.24	152	46422	40.00	ppm	0.00
161) Phenanthrene-d10b	11.06	188	165326	40.00	ppm	0.00
163) Chrysene-d12b	15.76	240	155449	40.00	ppm	0.00
165) Naphthalene-d8b	5.98	136	172914	40.00	ppm	0.00
167) Acenaphthene-d10b	8.71	164	96036	40.00	ppm	0.00
169) Naphthalene-d8c	5.98	136	172914	40.00	ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	46422	40.00	ppm	0.07
176) Chrysene-d12c	15.76	240	155449	40.00	ppm	-0.01
178) Chrysene-d12d	15.76	240	155449	40.00	ppm	-0.01
180) Naphthalene-d8d	5.98	136	172914	40.00	ppm	0.00

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
160) Benzaldehyde	3.72	105	1090	0.95	ppm		80
162) Atrazine	10.73	200	654	0.93	ppm	#	68
164) Benzidine	13.42	184	1548	0.79	ppm	#	76
166) Hydroquinone	6.66	110	801	0.54	ppm		83
168) 1,2,4,5-Tetrachlorobenzene	7.33	216	1317	1.07	ppm		92

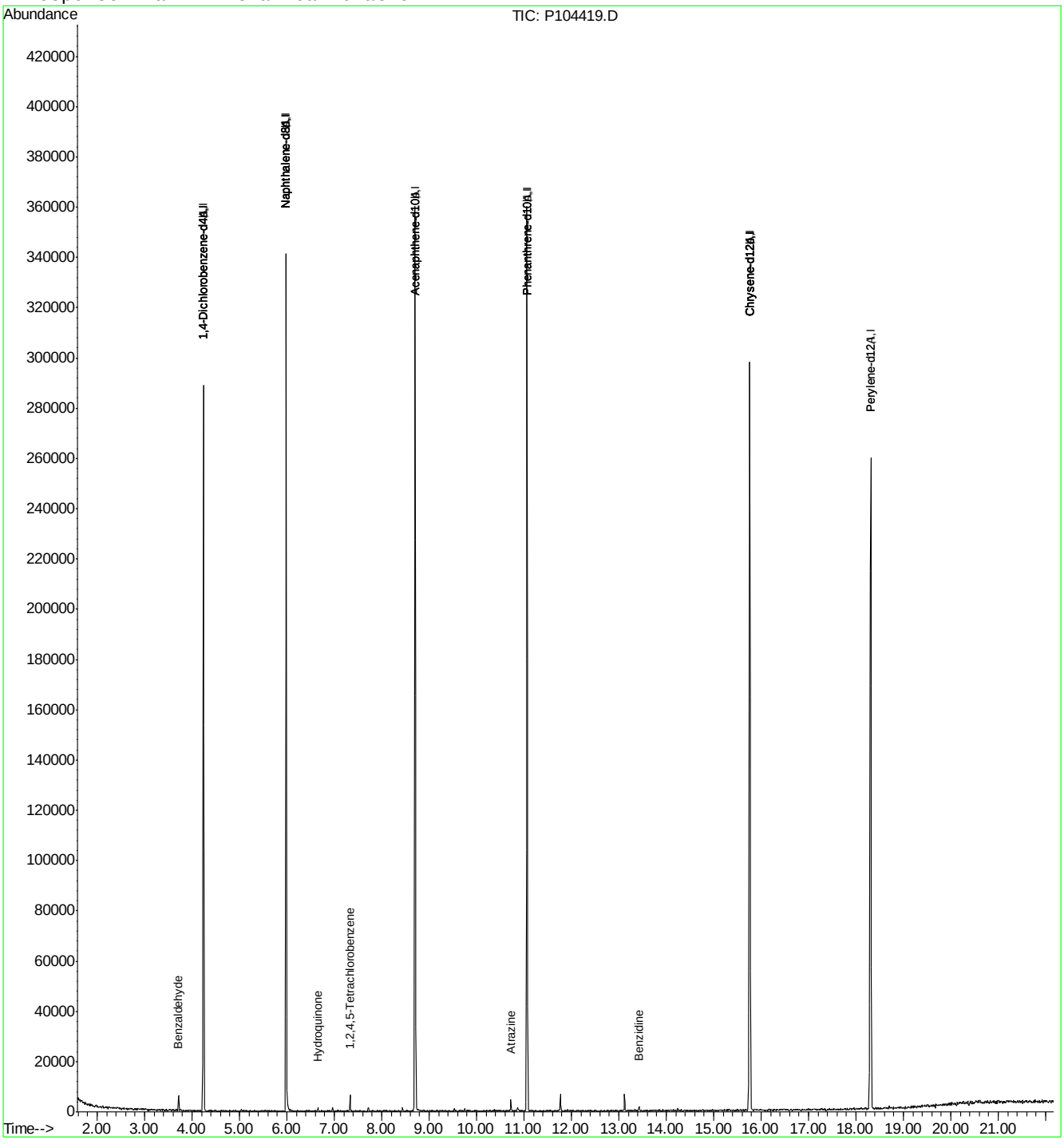
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104419.D Vial: 9
Acq On : 27 Apr 2016 6:58 pm Operator: linseyk
Sample : ic4601-1 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:39 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:32:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104422.D Vial: 12
Acq On : 27 Apr 2016 8:25 pm Operator: linseyk
Sample : icv4601-50 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 09:02:27 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:53:11 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	45190	40.00	ppm	0.00
24) Naphthalene-d8	5.99	136	156560	40.00	ppm	0.00
47) Acenaphthene-d10	8.71	164	80687	40.00	ppm	0.00
69) Phenanthrene-d10	11.07	188	135461	40.00	ppm	0.00
83) Chrysene-d12	15.76	240	116365	40.00	ppm	0.00
92) Perylene-d12	18.31	264	101743	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.24	152	45190	40.00	ppm	0.00
112) Naphthalene-d8A	5.99	136	156560	40.00	ppm	0.00
121) Acenaphthene-d10A	8.71	164	80687	40.00	ppm	0.00
132) Phenanthrene-d10A	11.07	188	135461	40.00	ppm	0.00
147) Chrysene-d12A	15.76	240	116365	40.00	ppm	0.00
155) Perylene-d12A	18.31	264	101743	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.24	152	45190	40.00	ppm	0.00
161) Phenanthrene-d10b	11.07	188	135461	40.00	ppm	0.00
163) Chrysene-d12b	15.76	240	116365	40.00	ppm	0.00
165) Naphthalene-d8b	5.99	136	156560	40.00	ppm	0.00
167) Acenaphthene-d10b	8.71	164	80687	40.00	ppm	0.00
169) Naphthalene-d8c	5.99	136	156560	40.00	ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	45190	40.00	ppm	0.07
176) Chrysene-d12c	15.76	240	116365	40.00	ppm	0.00
178) Chrysene-d12d	15.76	240	116365	40.00	ppm	0.00
180) Naphthalene-d8d	5.99	136	156560	40.00	ppm	0.00

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
168) 1,2,4,5-Tetrachlorobenzene	7.34	216	64900	58.98	ppm	98

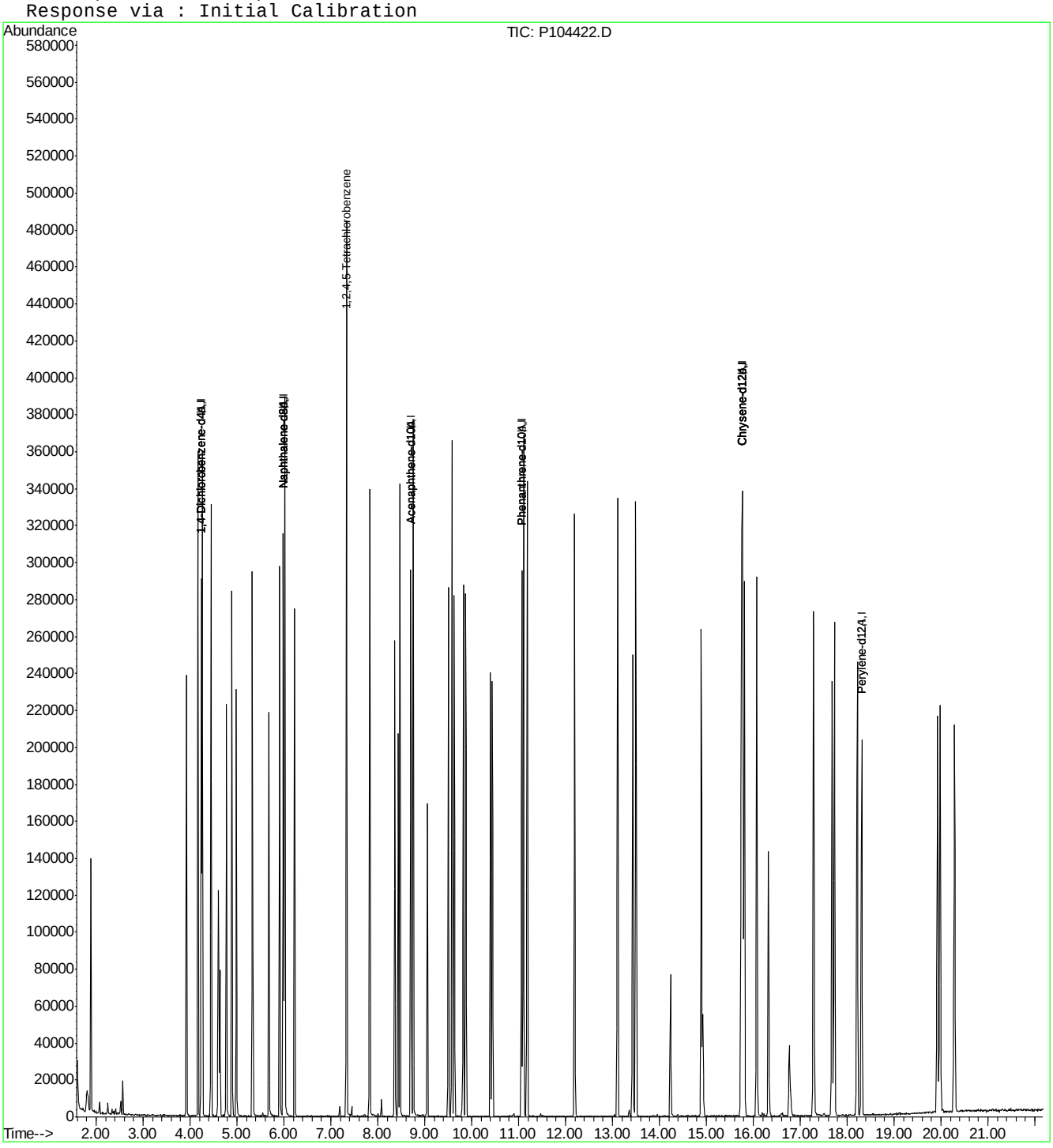
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104422.D Vial: 12
Acq On : 27 Apr 2016 8:25 pm Operator: linseyk
Sample : icv4601-50 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 13:43 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 10:17:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104423.D Vial: 13
Acq On : 27 Apr 2016 8:55 pm Operator: linseyk
Sample : icv4601-50 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 09:09:34 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:53:11 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	43693	40.00	ppm	0.00
24) Naphthalene-d8	5.98	136	161878	40.00	ppm	0.00
47) Acenaphthene-d10	8.70	164	84627	40.00	ppm	0.00
69) Phenanthrene-d10	11.06	188	139803	40.00	ppm	0.00
83) Chrysene-d12	15.76	240	131651	40.00	ppm	-0.01
92) Perylene-d12	18.31	264	101159	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.24	152	43693	40.00	ppm	0.00
112) Naphthalene-d8A	5.98	136	161878	40.00	ppm	0.00
121) Acenaphthene-d10A	8.70	164	84627	40.00	ppm	0.00
132) Phenanthrene-d10A	11.06	188	139803	40.00	ppm	0.00
147) Chrysene-d12A	15.76	240	131651	40.00	ppm	-0.01
155) Perylene-d12A	18.31	264	101159	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.24	152	43693	40.00	ppm	0.00
161) Phenanthrene-d10b	11.06	188	139803	40.00	ppm	0.00
163) Chrysene-d12b	15.76	240	131651	40.00	ppm	0.00
165) Naphthalene-d8b	5.98	136	161878	40.00	ppm	0.00
167) Acenaphthene-d10b	8.70	164	84627	40.00	ppm	0.00
169) Naphthalene-d8c	5.98	136	161878	40.00	ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	43693	40.00	ppm	0.07
176) Chrysene-d12c	15.76	240	131651	40.00	ppm	-0.01
178) Chrysene-d12d	15.76	240	131651	40.00	ppm	-0.01
180) Naphthalene-d8d	5.98	136	161878	40.00	ppm	0.00

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
160) Benzaldehyde	3.72	105	61245	54.25	ppm	98
162) Atrazine	10.74	200	34683	56.39	ppm	88

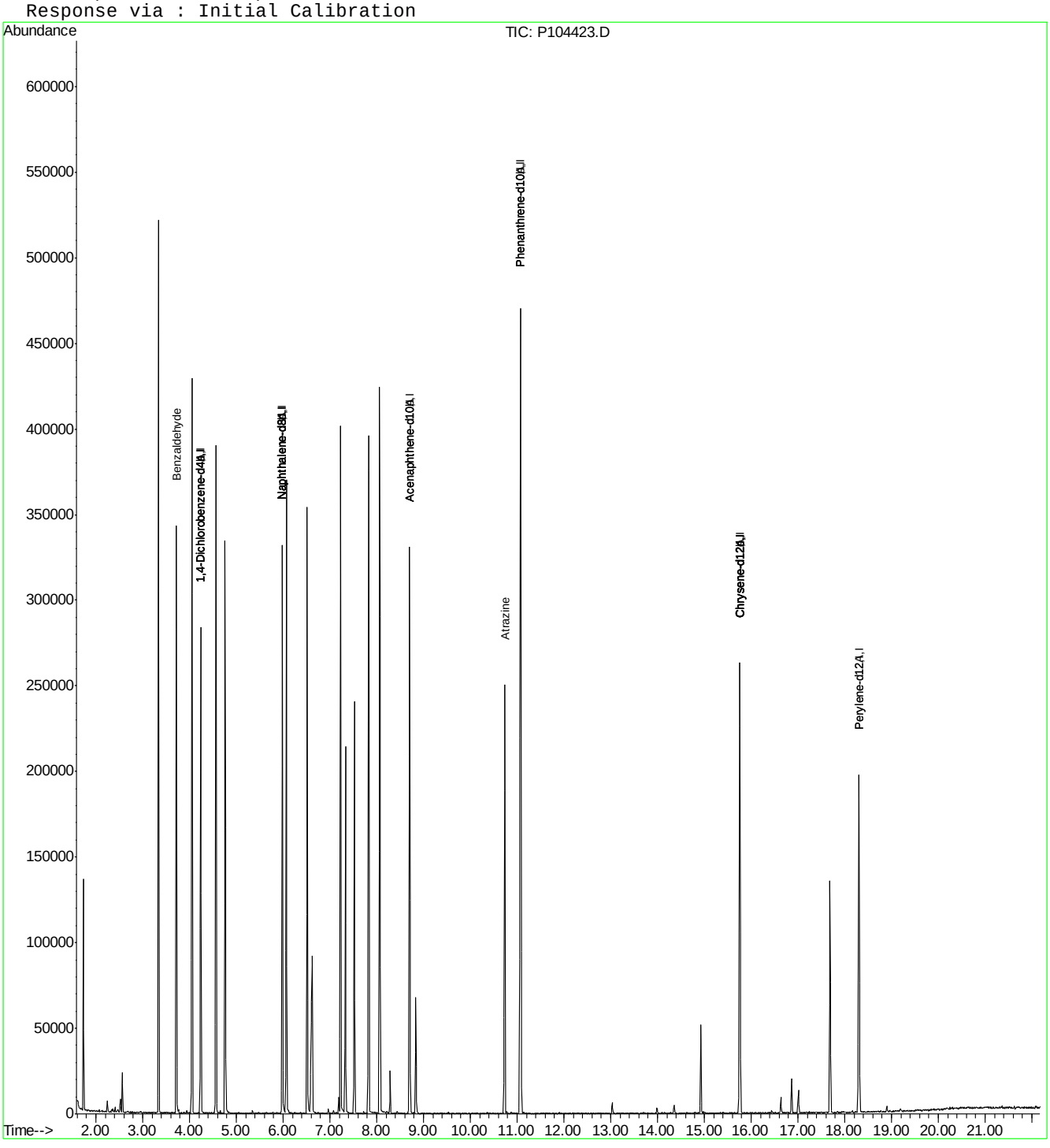
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104423.D Vial: 13
Acq On : 27 Apr 2016 8:55 pm Operator: linseyk
Sample : icv4601-50 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 13:44 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 10:17:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104425.D Vial: 15
Acq On : 27 Apr 2016 9:53 pm Operator: linseyk
Sample : icv4601-50 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 09:26:39 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:53:11 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.24	152	39334	40.00	ppm	0.00
24) Naphthalene-d8	5.98	136	141448	40.00	ppm	0.00
47) Acenaphthene-d10	8.70	164	76568	40.00	ppm	0.00
69) Phenanthrene-d10	11.06	188	133821	40.00	ppm	0.00
83) Chrysene-d12	15.76	240	130428	40.00	ppm	-0.01
92) Perylene-d12	18.31	264	113731	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.24	152	39334	40.00	ppm	0.00
112) Naphthalene-d8A	5.98	136	141448	40.00	ppm	0.00
121) Acenaphthene-d10A	8.70	164	76568	40.00	ppm	0.00
132) Phenanthrene-d10A	11.06	188	133821	40.00	ppm	0.00
147) Chrysene-d12A	15.76	240	130428	40.00	ppm	-0.01
155) Perylene-d12A	18.31	264	113731	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.24	152	39334	40.00	ppm	0.00
161) Phenanthrene-d10b	11.06	188	133821	40.00	ppm	0.00
163) Chrysene-d12b	15.76	240	130428	40.00	ppm	0.00
165) Naphthalene-d8b	5.98	136	141448	40.00	ppm	0.00
167) Acenaphthene-d10b	8.70	164	76568	40.00	ppm	0.00
169) Naphthalene-d8c	5.98	136	141448	40.00	ppm	0.00
174) 1,4-Dichlorobenzene-d4a	4.24	152	39334	40.00	ppm	0.07
176) Chrysene-d12c	15.76	240	130428	40.00	ppm	-0.01
178) Chrysene-d12d	15.76	240	130428	40.00	ppm	-0.01
180) Naphthalene-d8d	5.98	136	141448	40.00	ppm	0.00

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
166) Hydroquinone	6.67	110	59206	52.35	ppm	95

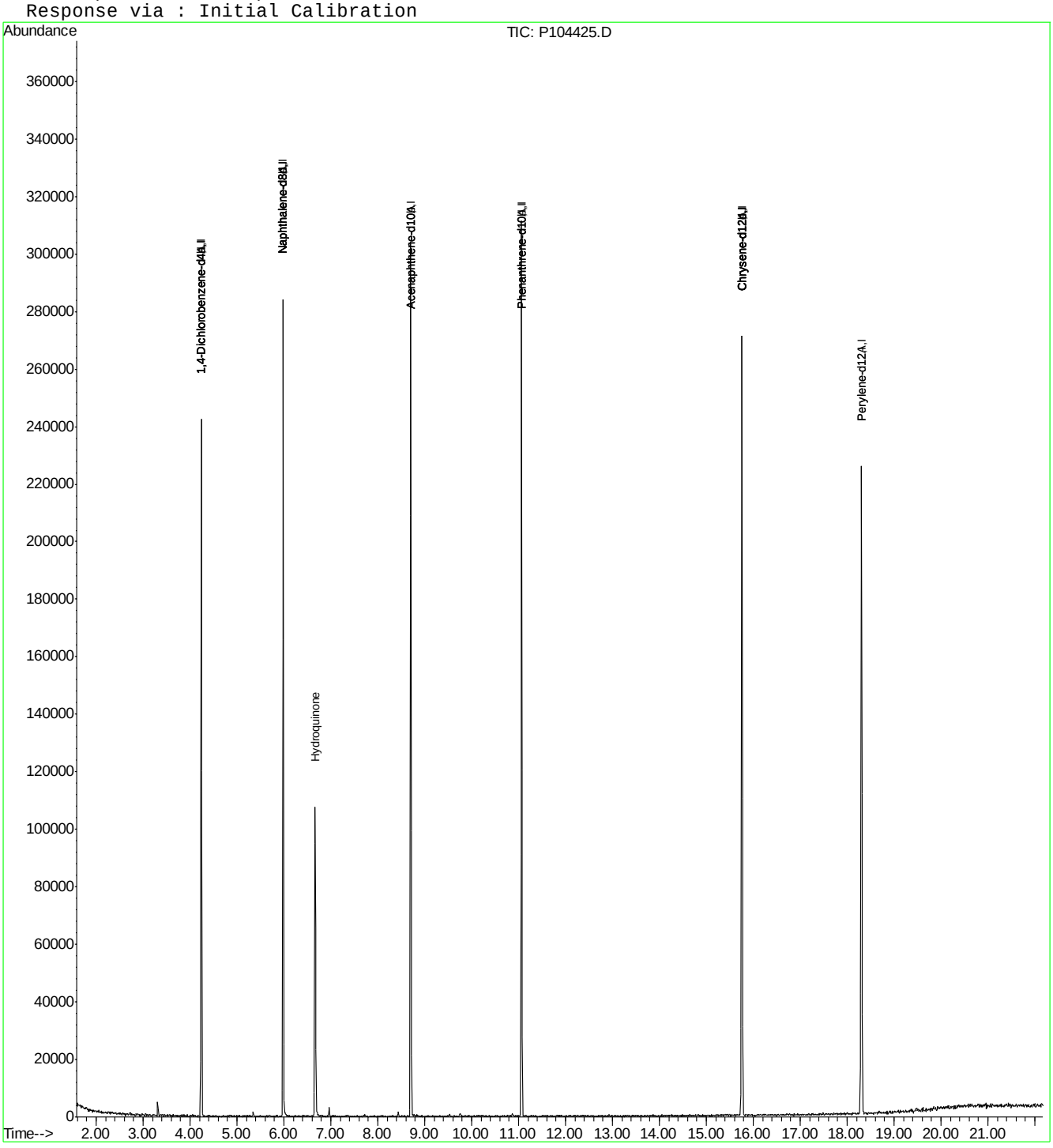
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4601\P104425.D Vial: 15
Acq On : 27 Apr 2016 9:53 pm Operator: linseyk
Sample : icv4601-50 Inst : MSP
Misc : op93197,ep4601 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 9:27 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 10:17:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4602\P104434.D Vial: 4
Acq On : 28 Apr 2016 1:21 pm Operator: linseyk
Sample : icv4601-50 Inst : MSP
Misc : op93197,ep4602 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 13:43:50 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 08:53:11 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	37727	40.00 ppm	-0.02
24) Naphthalene-d8	5.97	136	137564	40.00 ppm	-0.02
47) Acenaphthene-d10	8.69	164	74604	40.00 ppm	-0.02
69) Phenanthrene-d10	11.05	188	132810	40.00 ppm	-0.02
83) Chrysene-d12	15.74	240	134718	40.00 ppm	-0.03
92) Perylene-d12	18.30	264	121080	40.00 ppm	-0.02
102) 1,4-Dichlorobenzene-d4A	4.22	152	37727	40.00 ppm	-0.02
112) Naphthalene-d8A	5.97	136	137564	40.00 ppm	-0.02
121) Acenaphthene-d10A	8.69	164	74604	40.00 ppm	-0.02
132) Phenanthrene-d10A	11.05	188	132810	40.00 ppm	-0.02
147) Chrysene-d12A	15.74	240	134718	40.00 ppm	-0.03
155) Perylene-d12A	18.30	264	121080	40.00 ppm	-0.02
159) 1,4-Dichlorobenzene-d4b	4.22	152	37727	40.00 ppm	-0.02
161) Phenanthrene-d10b	11.05	188	132810	40.00 ppm	-0.02
163) Chrysene-d12b	15.74	240	134718	40.00 ppm	-0.02
165) Naphthalene-d8b	5.97	136	137564	40.00 ppm	-0.01
167) Acenaphthene-d10b	8.69	164	74604	40.00 ppm	-0.02
169) Naphthalene-d8c	5.97	136	137564	40.00 ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	37727	40.00 ppm	0.06
176) Chrysene-d12c	15.74	240	134718	40.00 ppm	-0.03
178) Chrysene-d12d	15.74	240	134718	40.00 ppm	-0.03
180) Naphthalene-d8d	5.97	136	137564	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	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
164) Benzidine	13.42	184	129002	64.00 ppm	99

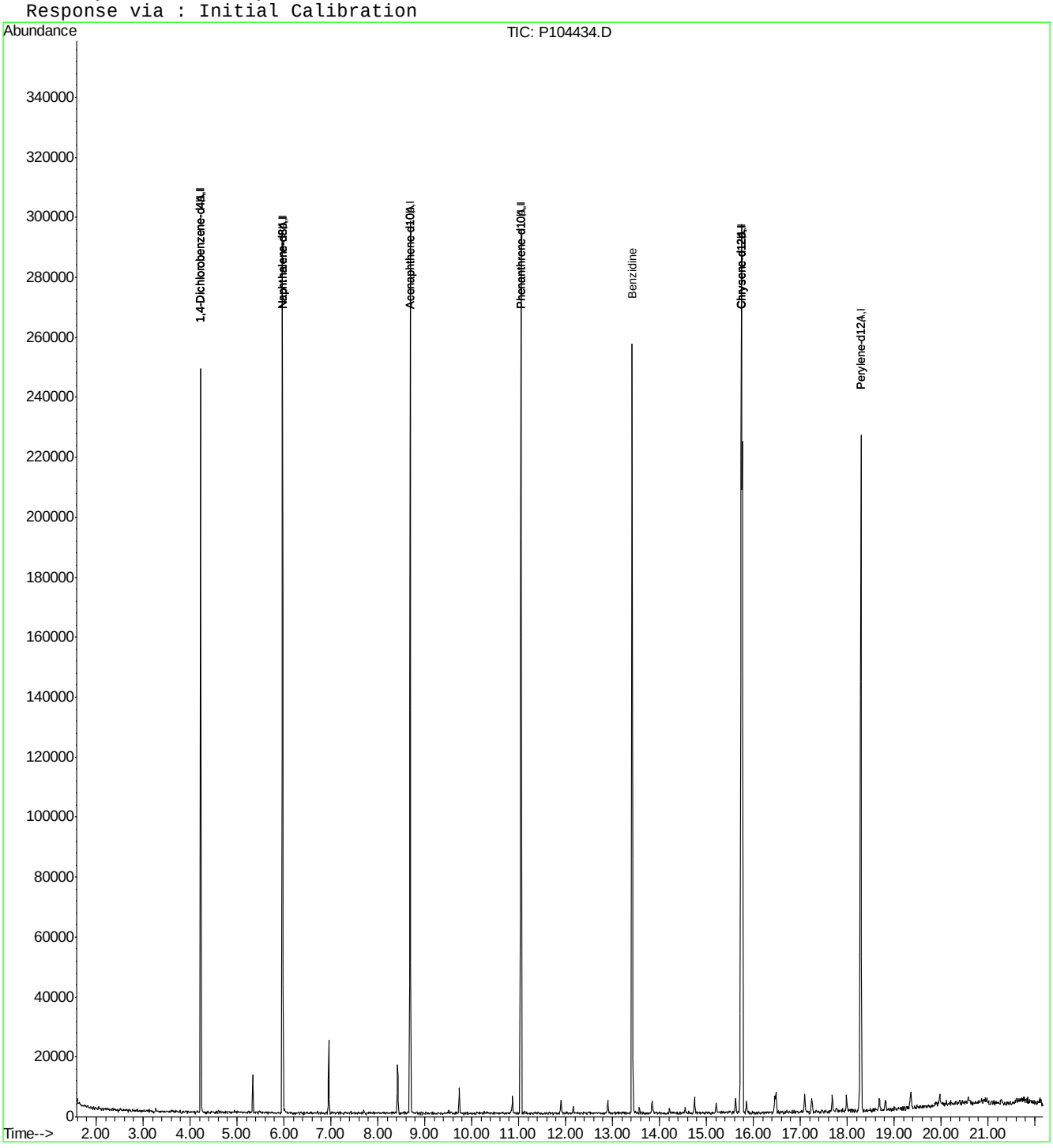
(#) = qualifier out of range (m) = manual integration (+) = signals summed
P104434.D MP4600.M Fri Apr 29 13:50:52 2016 Page 1

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4602\P104434.D Vial: 4
Acq On : 28 Apr 2016 1:21 pm Operator: linseyk
Sample : icv4601-50 Inst : MSP
Misc : op93197,ep4602 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 13:50 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 10:17:45 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/29/16 13:31

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104441.D Vial: 2
Acq On : 28 Apr 2016 5:22 pm Operator: ashleyd
Sample : ic4604-100 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 17:44:53 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 15:34:57 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	27241	40.00	ppm	-0.02
24) Naphthalene-d8	5.97	136	98309	40.00	ppm	-0.02
47) Acenaphthene-d10	8.69	164	53250	40.00	ppm	-0.02
69) Phenanthrene-d10	11.05	188	94223	40.00	ppm	-0.02
83) Chrysene-d12	15.75	240	87504	40.00	ppm	-0.02
92) Perylene-d12	18.29	264	79981	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.22	152	27241	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	98309	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.69	164	53250	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	94223	40.00	ppm	-0.02
147) Chrysene-d12A	15.75	240	87504	40.00	ppm	-0.02
155) Perylene-d12A	18.29	264	79981	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	27241	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	94223	40.00	ppm	-0.02
163) Chrysene-d12b	15.75	240	87504	40.00	ppm	0.00
165) Naphthalene-d8b	5.97	136	98309	40.00	ppm	-0.01
167) Acenaphthene-d10b	8.69	164	53250	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	98309	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	27241	40.00	ppm	0.06
176) Chrysene-d12c	15.75	240	87504	40.00	ppm	-0.02
178) Chrysene-d12d	15.75	240	87504	40.00	ppm	-0.02
180) Naphthalene-d8d	5.97	136	98309	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.81	112	93201	90.03	ppm	-0.01
Spiked Amount 50.000			Recovery = 180.06%			
8) Phenol-d5	3.78	99	116485	90.36	ppm	0.00
Spiked Amount 50.000			Recovery = 180.72%			
25) Nitrobenzene-d5	4.96	82	97727	95.41	ppm	-0.01
Spiked Amount 50.000			Recovery = 190.82%			
51) 2-Fluorobiphenyl	7.67	172	163411	92.00	ppm	-0.02
Spiked Amount 50.000			Recovery = 184.00%			
73) 2,4,6-Tribromophenol	9.96	330	26357	118.55	ppm	-0.01
Spiked Amount 50.000			Recovery = 237.10%			
85) Terphenyl-d14	13.88	244	168379	97.02	ppm	-0.02
Spiked Amount 50.000			Recovery = 194.04%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.71	88	37824	75.46	ppm	97
3) Pyridine	1.89	79	98231	86.89	ppm	94
4) N-Nitrosodimethylamine	1.86	42	50456	99.49	ppm	86
6) Indene	4.55	116	132638	83.81	ppm	97
7) Cumene	3.32	105	211803	92.16	ppm	97
9) Phenol	3.79	94	115557	86.10	ppm	91
10) Aniline	3.83	93	127347	89.52	ppm	71
11) bis(2-Chloroethyl)ether	3.91	93	83340	84.23	ppm	96
12) 2-Chlorophenol	3.97	128	84745	85.75	ppm	100
13) Decane	4.04	43	99775	82.09	ppm	98
14) 1,3-Dichlorobenzene	4.15	146	91330	86.92	ppm	96
15) 1,4-Dichlorobenzene	4.25	146	91044	89.49	ppm	99

(#) = qualifier out of range (m) = manual integration
P104441.D MP4600.M Fri Apr 29 08:58:28 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104441.D Vial: 2
Acq On : 28 Apr 2016 5:22 pm Operator: ashleyd
Sample : ic4604-100 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 17:44:53 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 15:34:57 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
16)	Benzyl alcohol	4.41	108	55356	90.25 ppm		86
17)	1,2-Dichlorobenzene	4.44	146	82900	87.12 ppm		99
18)	Acetophenone	4.76	105	119611	92.18 ppm		96
19)	2-Methylphenol	4.55	108	72319	87.85 ppm		95
20)	2,2'-oxybis(1-Chloropropan	4.59	121	25304	89.66 ppm	#	77
21)	3&4-Methylphenol	4.77	108	77688	89.76 ppm		96
22)	n-Nitroso-di-n-propylamine	4.77	70	62108	86.98 ppm		98
23)	Hexachloroethane	4.88	201	35399	99.85 ppm		99
26)	Nitrobenzene	4.98	77	95361	91.49 ppm		97
27)	Quinoline	6.53	129	166484	93.20 ppm		96
28)	Isophorone	5.33	82	168409	93.18 ppm		98
29)	2-Nitrophenol	5.43	139	45867	95.45 ppm		87
30)	2,4-Dimethylphenol	5.52	107	86199	109.62 ppm		96
31)	Benzoic acid	5.74	105	78045m	122.31 ppm		
32)	bis(2-Chloroethoxy)methane	5.67	93	103411	88.81 ppm		99
33)	2,4-Dichlorophenol	5.77	162	69450	95.61 ppm		98
34)	2,6-Dichlorophenol	6.12	162	65805	93.50 ppm		97
35)	1,3,5-Trichlorobenzene	5.44	180	76398	91.90 ppm		98
36)	1,2,4-Trichlorobenzene	5.90	180	77112	93.47 ppm		92
37)	1,2,3-Trichlorobenzene	6.23	180	71826	95.28 ppm		99
38)	Naphthalene	6.01	128	236750	91.23 ppm		99
39)	4-Chloroaniline	6.12	127	97403	93.57 ppm		96
40)	2,3-Dichloroaniline	7.51	161	80587	93.89 ppm		96
41)	Caprolactam	6.68	55	46183m	98.58 ppm		
42)	Hexachlorobutadiene	6.22	225	46324	108.76 ppm		95
43)	4-Chloro-3-methylphenol	6.90	107	80334	103.93 ppm		91
44)	2-Methylnaphthalene	7.07	141	129344	90.92 ppm		95
45)	1-Methylnaphthalene	7.22	142	145463	88.92 ppm		95
46)	Dimethylnaphthalene	8.05	156	128602	92.50 ppm		92
48)	Hexachlorocyclopentadiene	7.32	237	111126	230.01 ppm		98
49)	2,4,6-Trichlorophenol	7.53	196	49117	96.93 ppm		97
50)	2,4,5-Trichlorophenol	7.57	196	53147	98.59 ppm		94
52)	2-Chloronaphthalene	7.82	162	135921	88.64 ppm		91
53)	Biphenyl	7.82	154	172263	86.74 ppm		100
54)	2-Nitroaniline	8.01	65	54008	102.75 ppm		90
55)	Dimethylphthalate	8.36	163	169354	95.18 ppm		99
56)	Acenaphthylene	8.46	152	238562	90.90 ppm		98
57)	2,6-Dinitrotoluene	8.43	165	38568	101.18 ppm		93
58)	3-Nitroaniline	8.67	138	45525	96.11 ppm		97
59)	Acenaphthene	8.75	153	145851	92.86 ppm		98
60)	2,4-Dinitrophenol	8.85	184	48710	203.18 ppm		86
61)	4-Nitrophenol	8.98	109	31738	129.48 ppm	#	75
62)	Dibenzofuran	9.03	168	204717	91.61 ppm		99
63)	2,4-Dinitrotoluene	9.05	165	51758	109.44 ppm		87
64)	2,3,4,6-Tetrachlorophenol	9.24	232	45650	107.04 ppm		96
65)	Diethylphthalate	9.50	149	191785	98.73 ppm		99
66)	Fluorene	9.57	166	165000	92.57 ppm		99
67)	4-Chlorophenyl-phenylether	9.62	204	78591	94.62 ppm		97
68)	4-Nitroaniline	9.66	138	44720	99.31 ppm		88

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

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104441.D Vial: 2
Acq On : 28 Apr 2016 5:22 pm Operator: ashleyd
Sample : ic4604-100 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 17:44:53 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 15:34:57 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	9.69	198	31856	103.10	ppm	84
71)	n-Nitrosodiphenylamine	9.82	169	114039	90.02	ppm	99
72)	1,2-Diphenylhydrazine	9.87	77	183544	89.28	ppm	98
74)	4-Bromophenyl-phenylether	10.39	248	47770	94.02	ppm	91
75)	Hexachlorobenzene	10.43	284	49583	97.35	ppm	90
76)	Pentachlorophenol	10.77	266	69966	218.52	ppm	97
77)	Phenanthrene	11.09	178	221084	90.51	ppm	99
78)	Anthracene	11.18	178	229001	92.24	ppm	98
79)	Carbazole	11.47	167	224461	90.67	ppm	98
80)	Di-n-butylphthalate	12.18	149	324297	94.19	ppm	98
81)	Fluoranthene	13.10	202	281945	96.06	ppm	92
82)	Octadecane	11.07	57	125721	89.35	ppm	98
84)	Pyrene	13.49	202	282399	91.89	ppm	94
86)	Butylbenzylphthalate	14.88	149	152782	99.20	ppm	99
87)	Butyl stearate	15.12	56	96610	87.33	ppm	96
88)	Benzo[a]anthracene	15.73	228	244318	94.57	ppm	98
89)	3,3'-Dichlorobenzidine	15.77	252	89717	100.56	ppm	99
90)	Chrysene	15.81	228	223361	93.80	ppm	98
91)	bis(2-Ethylhexyl)phthalate	16.05	149	199918	96.36	ppm	97
93)	Di-n-octylphthalate	17.27	149	365977	96.10	ppm	99
94)	Benzo[b]fluoranthene	17.67	252	253479	97.00	ppm	97
95)	Benzo[k]fluoranthene	17.73	252	216674	89.47	ppm	98
96)	Benzo[a]pyrene	18.20	252	224107	97.35	ppm	96
97)	Indeno[1,2,3-cd]pyrene	19.93	276	209190	100.14	ppm	96
98)	Dibenz(a,h)acridine	19.62	279	186517	100.30	ppm	98
99)	Dibenz[a,h]anthracene	19.97	278	205558	97.76	ppm	93
100)	7,12-Dimethylbenz(a)anthra	17.69	256	103186	113.99	ppm	96
101)	Benzo[g,h,i]perylene	20.29	276	216758	97.68	ppm	93

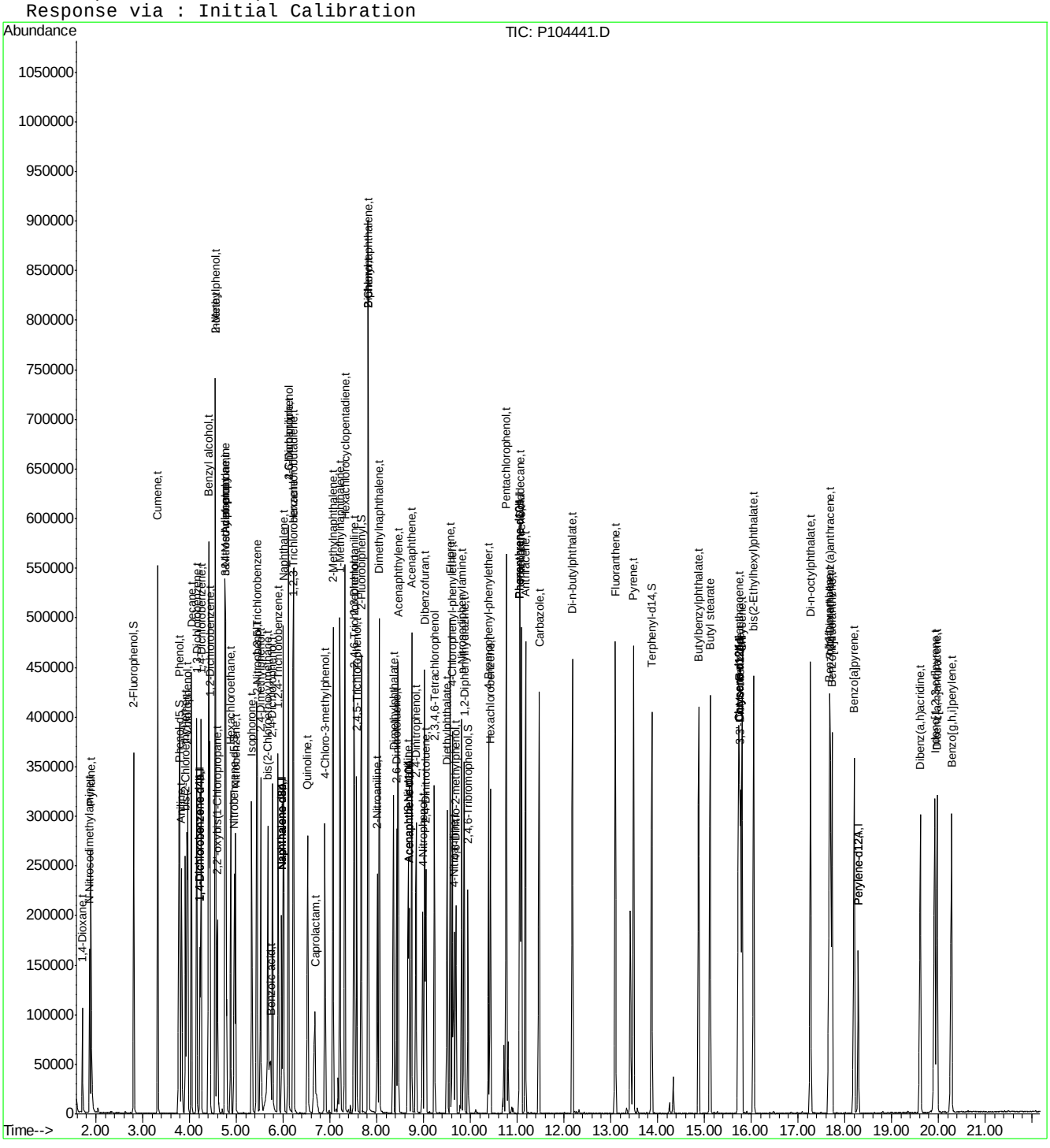
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104441.D Vial: 2
Acq On : 28 Apr 2016 5:22 pm Operator: ashleyd
Sample : ic4604-100 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 8:58 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration



Manual Integration Approval Summary

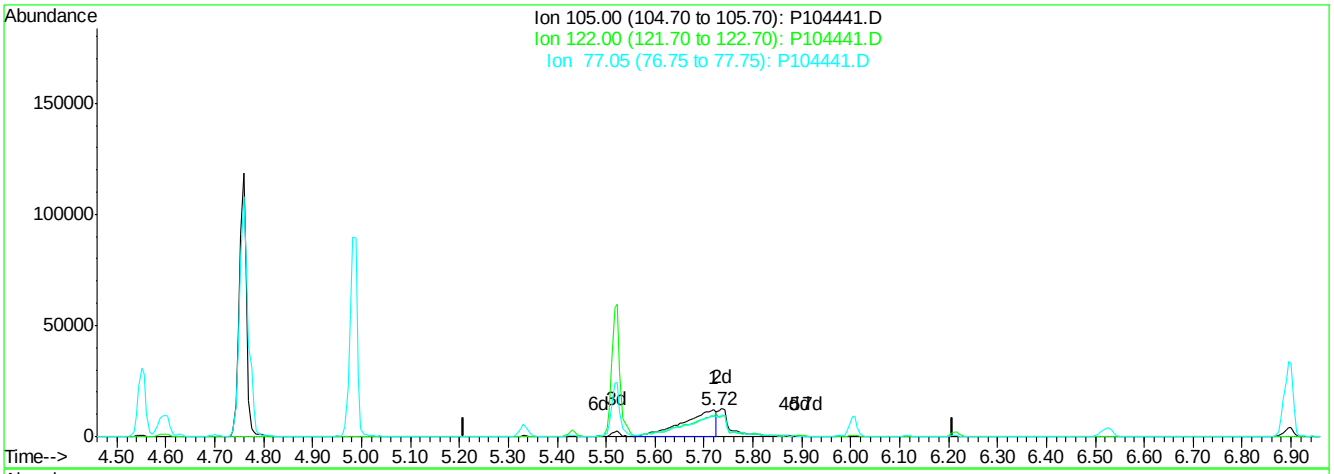
Sample Number:	EP4604-IC4604	**Method:**	SW846 8270D
Lab FileID:	P104441.D	**Analyst approved:**	04/29/16 10:03 Kristi Schollenberger
Injection Time:	04/28/16 17:22	**Supervisor approved:**	04/29/16 13:31 Nina Pandya

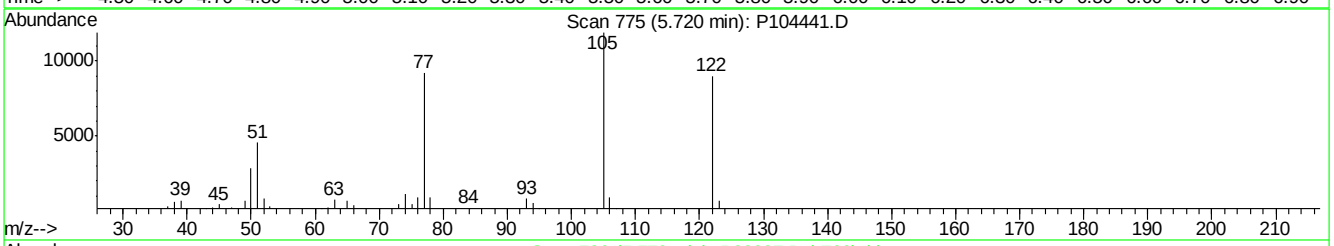
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.74	Split peak
Caprolactam	105-60-2		6.68	Split peak

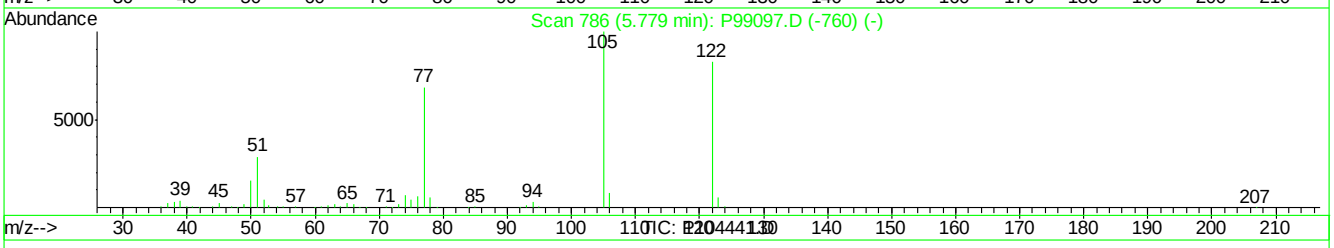
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104441.D Vial: 2
Acq On : 28 Apr 2016 5:22 pm Operator: ashleyd
Sample : ic4604-100 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 17:44 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 15:34:57 2016
Response via : Multiple Level Calibration







(31) Benzoic acid (t)

5.72min 89.12ppm

response 56864

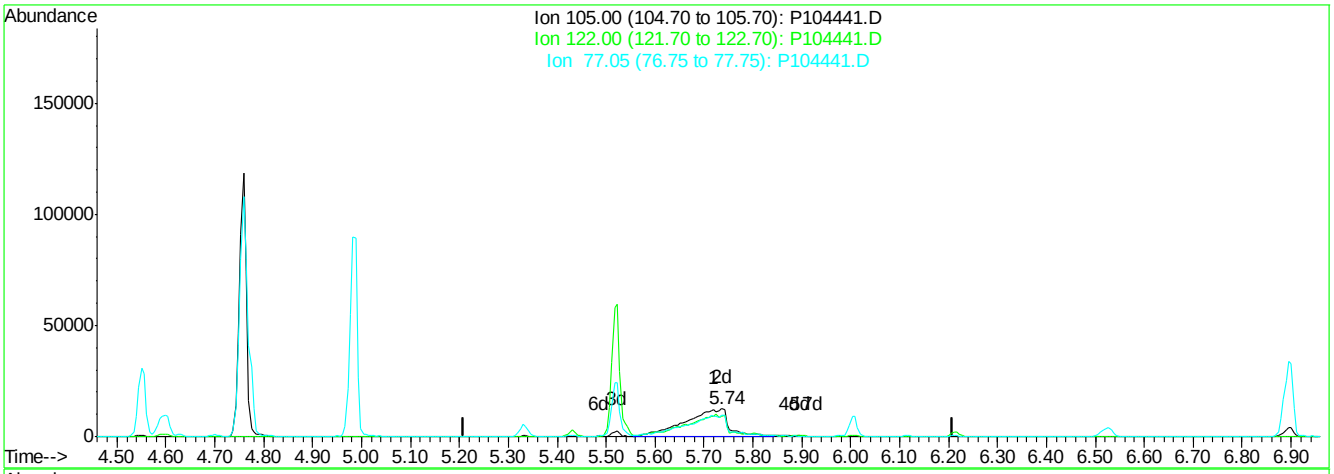
Ion	Exp%	Act%
105.00	100	100
122.00	72.30	59.85
77.05	69.60	72.10
0.00	0.00	0.00

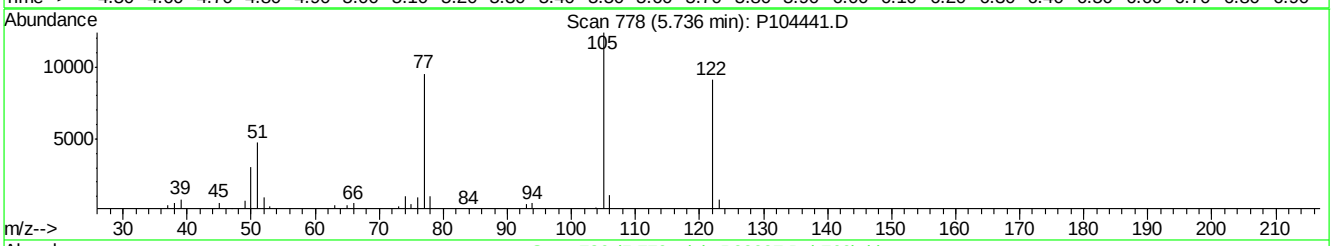
P104441.D MP4600.M Fri Apr 29 08:53:00 2016

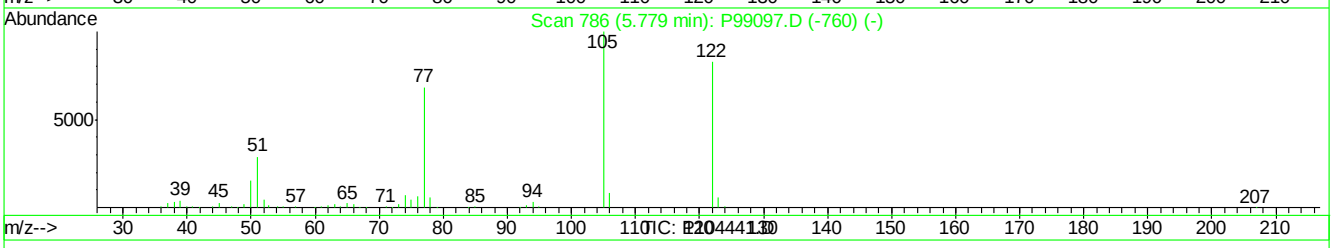
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104441.D Vial: 2
Acq On : 28 Apr 2016 5:22 pm Operator: ashleyd
Sample : ic4604-100 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 8:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 15:34:57 2016
Response via : Multiple Level Calibration







(31) Benzoic acid (t)

5.74min 122.31ppm m

response 78045

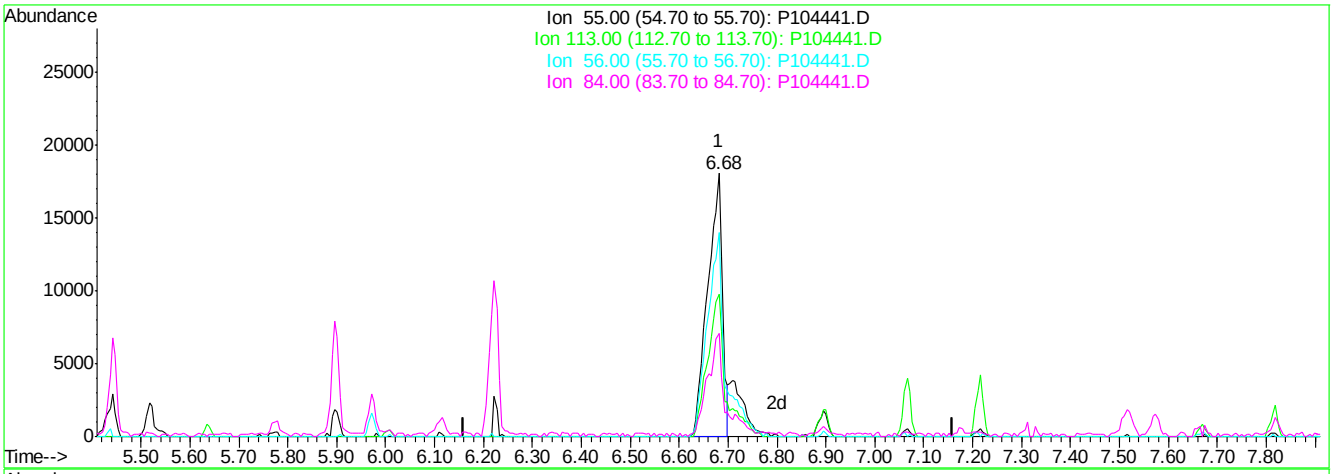
Ion	Exp%	Act%
105.00	100	100
122.00	72.30	73.33
77.05	69.60	76.87
0.00	0.00	0.00

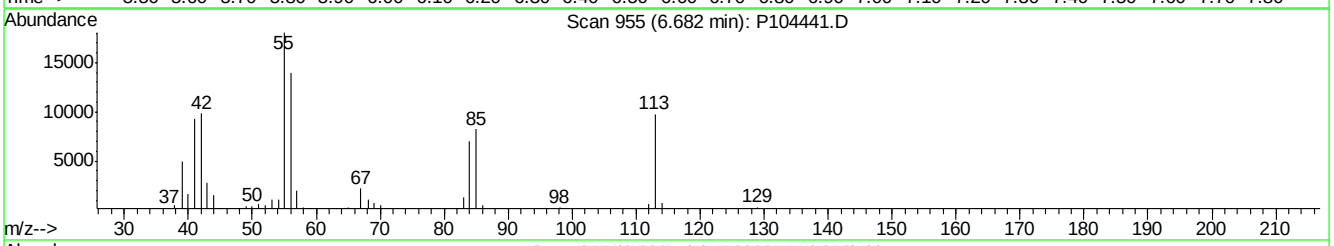
P104441.D MP4600.M Fri Apr 29 08:53:11 2016

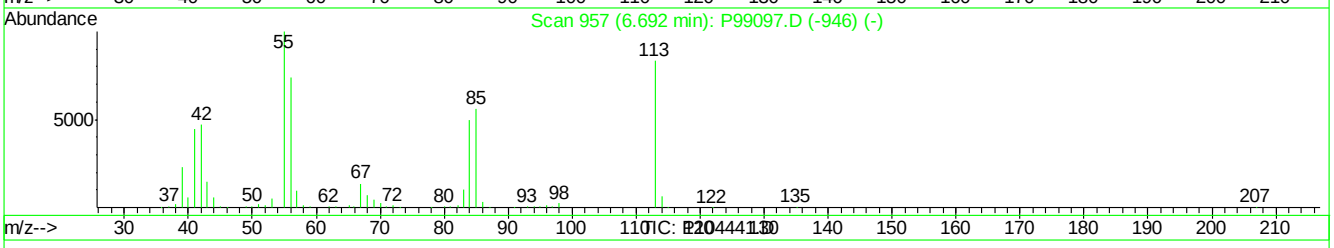
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104441.D Vial: 2
Acq On : 28 Apr 2016 5:22 pm Operator: ashleyd
Sample : ic4604-100 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 8:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 15:34:57 2016
Response via : Multiple Level Calibration







(41) Caprolactam (t)

6.68min 80.17ppm

response 37561

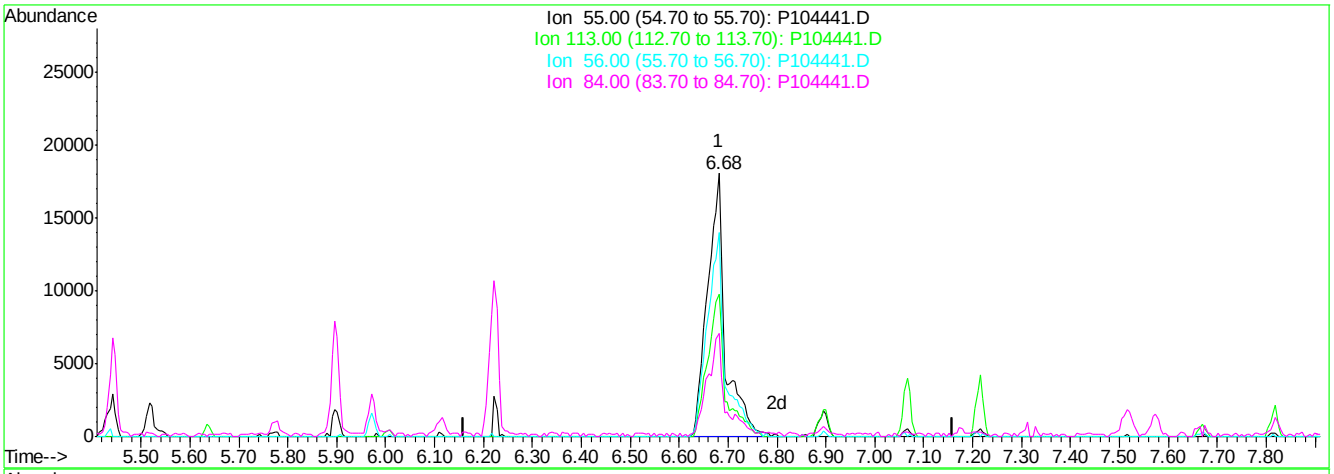
Ion	Exp%	Act%
55.00	100	100
113.00	58.40	52.60
56.00	74.20	76.08
84.00	38.00	38.09

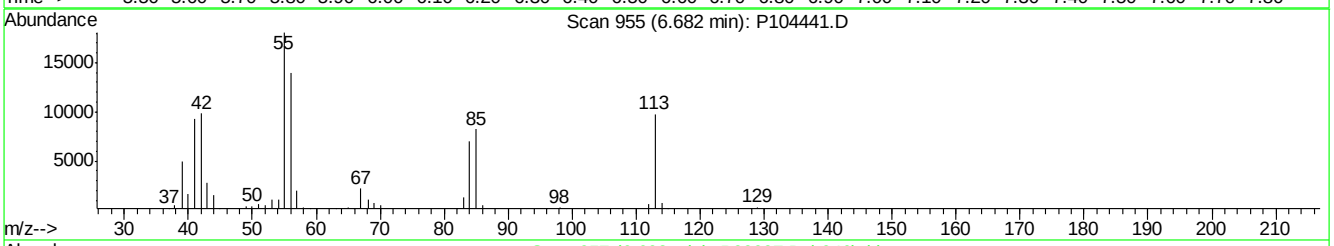
P104441.D MP4600.M Fri Apr 29 08:53:20 2016

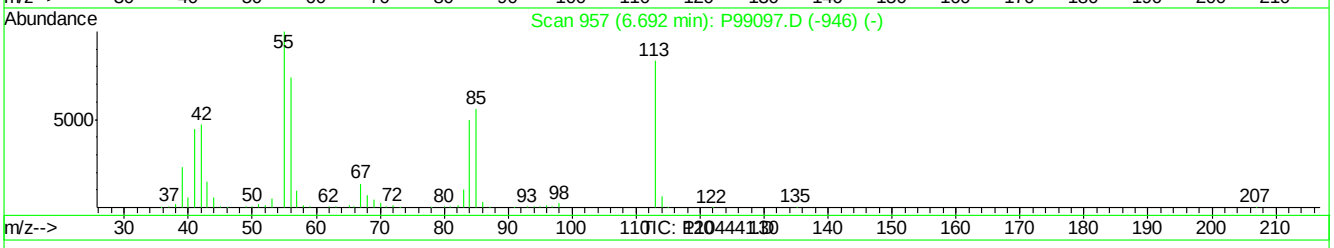
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104441.D Vial: 2
Acq On : 28 Apr 2016 5:22 pm Operator: ashleyd
Sample : ic4604-100 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 8:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 28 15:34:57 2016
Response via : Multiple Level Calibration







(41) Caprolactam (t)

6.68min 98.58ppm m

response 46183

Ion	Exp%	Act%
55.00	100	100
113.00	58.40	54.07
56.00	74.20	77.38
84.00	38.00	39.04

P104441.D MP4600.M Fri Apr 29 08:53:27 2016

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/29/16 13:31

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104442.D Vial: 3
Acq On : 28 Apr 2016 5:51 pm Operator: ashleyd
Sample : ic4604-80 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 08:58:40 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	27423	40.00	ppm	-0.02
24) Naphthalene-d8	5.97	136	99654	40.00	ppm	-0.02
47) Acenaphthene-d10	8.69	164	54094	40.00	ppm	-0.02
69) Phenanthrene-d10	11.05	188	96550	40.00	ppm	-0.02
83) Chrysene-d12	15.75	240	89849	40.00	ppm	-0.02
92) Perylene-d12	18.29	264	82178	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.22	152	27423	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	99654	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.69	164	54094	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	96550	40.00	ppm	-0.02
147) Chrysene-d12A	15.75	240	89849	40.00	ppm	-0.02
155) Perylene-d12A	18.29	264	82178	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	27423	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	96550	40.00	ppm	-0.02
163) Chrysene-d12b	15.75	240	89849	40.00	ppm	-0.01
165) Naphthalene-d8b	5.97	136	99654	40.00	ppm	-0.01
167) Acenaphthene-d10b	8.69	164	54094	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	99654	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	27423	40.00	ppm	0.06
176) Chrysene-d12c	15.75	240	89849	40.00	ppm	-0.02
178) Chrysene-d12d	15.75	240	89849	40.00	ppm	-0.02
180) Naphthalene-d8d	5.97	136	99654	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.81	112	75626	72.57	ppm	-0.01
Spiked Amount 50.000			Recovery = 145.14%			
8) Phenol-d5	3.77	99	96873	74.65	ppm	-0.01
Spiked Amount 50.000			Recovery = 149.30%			
25) Nitrobenzene-d5	4.96	82	82036	79.01	ppm	-0.01
Spiked Amount 50.000			Recovery = 158.02%			
51) 2-Fluorobiphenyl	7.67	172	134728	74.67	ppm	-0.02
Spiked Amount 50.000			Recovery = 149.34%			
73) 2,4,6-Tribromophenol	9.95	330	21222	93.16	ppm	-0.02
Spiked Amount 50.000			Recovery = 186.32%			
85) Terphenyl-d14	13.87	244	140254	78.71	ppm	-0.02
Spiked Amount 50.000			Recovery = 157.42%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.71	88	30260	59.97	ppm	98
3) Pyridine	1.89	79	79217	69.60	ppm	94
4) N-Nitrosodimethylamine	1.86	42	40858	80.03	ppm	86
6) Indene	4.55	116	111384	69.92	ppm	97
7) Cumene	3.32	105	176951	76.48	ppm	97
9) Phenol	3.79	94	94381	69.85	ppm	88
10) Aniline	3.83	93	105865	73.92	ppm	66
11) bis(2-Chloroethyl)ether	3.91	93	67930	68.20	ppm	95
12) 2-Chlorophenol	3.96	128	70712	71.08	ppm	95
13) Decane	4.04	43	83167	67.97	ppm	98
14) 1,3-Dichlorobenzene	4.15	146	77002	72.80	ppm	97
15) 1,4-Dichlorobenzene	4.25	146	76911	75.10	ppm	98

(#) = qualifier out of range (m) = manual integration
P104442.D MP4600.M Fri Apr 29 09:00:42 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104442.D Vial: 3
Acq On : 28 Apr 2016 5:51 pm Operator: ashleyd
Sample : ic4604-80 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 08:58:40 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.41	108	45366	73.47	ppm		85
17)	1,2-Dichlorobenzene	4.43	146	70051	73.13	ppm		98
18)	Acetophenone	4.75	105	99647	76.28	ppm		95
19)	2-Methylphenol	4.55	108	60452	72.95	ppm		98
20)	2,2'-oxybis(1-Chloropropan	4.59	121	20848	73.38	ppm	#	75
21)	3&4-Methylphenol	4.77	108	64186	73.67	ppm		97
22)	n-Nitroso-di-n-propylamine	4.77	70	51551	71.72	ppm		96
23)	Hexachloroethane	4.88	201	29228	81.89	ppm		97
26)	Nitrobenzene	4.98	77	80374	76.07	ppm		97
27)	Quinoline	6.52	129	135780	74.99	ppm		98
28)	Isophorone	5.33	82	140883	76.90	ppm		99
29)	2-Nitrophenol	5.43	139	38486	79.01	ppm		90
30)	2,4-Dimethylphenol	5.52	107	72374	90.79	ppm		93
31)	Benzoic acid	5.70	105	63026m	97.44	ppm		
32)	bis(2-Chloroethoxy)methane	5.67	93	84000	71.16	ppm		99
33)	2,4-Dichlorophenol	5.77	162	56746	77.06	ppm		98
34)	2,6-Dichlorophenol	6.11	162	53250	74.64	ppm		99
35)	1,3,5-Trichlorobenzene	5.44	180	65135	77.29	ppm		99
36)	1,2,4-Trichlorobenzene	5.90	180	63699	76.17	ppm		96
37)	1,2,3-Trichlorobenzene	6.22	180	58953	77.15	ppm		99
38)	Naphthalene	6.00	128	196213	74.59	ppm		99
39)	4-Chloroaniline	6.12	127	81438	77.18	ppm		99
40)	2,3-Dichloroaniline	7.51	161	66753	76.72	ppm		94
41)	Caprolactam	6.67	55	37857	79.71	ppm		95
42)	Hexachlorobutadiene	6.21	225	39062	90.47	ppm		94
43)	4-Chloro-3-methylphenol	6.89	107	65931	84.14	ppm		91
44)	2-Methylnaphthalene	7.07	141	107667	74.66	ppm		95
45)	1-Methylnaphthalene	7.22	142	122996	74.17	ppm		92
46)	Dimethylnaphthalene	8.05	156	107994	76.63	ppm		92
48)	Hexachlorocyclopentadiene	7.32	237	93138	189.77	ppm		95
49)	2,4,6-Trichlorophenol	7.52	196	41262	80.16	ppm		97
50)	2,4,5-Trichlorophenol	7.57	196	45389	82.88	ppm		99
52)	2-Chloronaphthalene	7.82	162	114355	73.41	ppm		94
53)	Biphenyl	7.81	154	144738	71.74	ppm		99
54)	2-Nitroaniline	8.01	65	44252	82.88	ppm		96
55)	Dimethylphthalate	8.35	163	141100	78.06	ppm		99
56)	Acenaphthylene	8.46	152	198752	74.55	ppm		98
57)	2,6-Dinitrotoluene	8.42	165	31549	81.47	ppm		93
58)	3-Nitroaniline	8.67	138	37768	78.49	ppm		94
59)	Acenaphthene	8.74	153	123294	77.27	ppm		98
60)	2,4-Dinitrophenol	8.84	184	40309	251.26	ppm		90
61)	4-Nitrophenol	8.98	109	26233	105.35	ppm	#	76
62)	Dibenzofuran	9.03	168	172516	76.00	ppm		99
63)	2,4-Dinitrotoluene	9.05	165	42912	89.32	ppm		94
64)	2,3,4,6-Tetrachlorophenol	9.23	232	38573	89.03	ppm		95
65)	Diethylphthalate	9.50	149	157670	79.90	ppm		97
66)	Fluorene	9.57	166	139261	76.91	ppm		98
67)	4-Chlorophenyl-phenylether	9.61	204	63833	75.66	ppm		93
68)	4-Nitroaniline	9.65	138	36768	80.38	ppm		85

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

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104442.D Vial: 3
Acq On : 28 Apr 2016 5:51 pm Operator: ashleyd
Sample : ic4604-80 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 08:58:40 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	9.69	198	25889	99.43	ppm	84
71)	n-Nitrosodiphenylamine	9.81	169	91955	70.84	ppm	96
72)	1,2-Diphenylhydrazine	9.87	77	152150	72.22	ppm	97
74)	4-Bromophenyl-phenylether	10.39	248	39967	76.77	ppm	94
75)	Hexachlorobenzene	10.43	284	40941	78.44	ppm	82
76)	Pentachlorophenol	10.77	266	56905	173.44	ppm	97
77)	Phenanthrene	11.09	178	184594	73.75	ppm	99
78)	Anthracene	11.17	178	188154	73.96	ppm	98
79)	Carbazole	11.47	167	187320	73.85	ppm	98
80)	Di-n-butylphthalate	12.18	149	272244	77.16	ppm	99
81)	Fluoranthene	13.10	202	236942	78.78	ppm	91
82)	Octadecane	11.06	57	103884	72.05	ppm	96
84)	Pyrene	13.49	202	240896	76.34	ppm	90
86)	Butylbenzylphthalate	14.88	149	127180	80.43	ppm	99
87)	Butyl stearate	15.12	56	80318	70.70	ppm	96
88)	Benzo[a]anthracene	15.73	228	207104	78.07	ppm	98
89)	3,3'-Dichlorobenzidine	15.77	252	76419	83.42	ppm	99
90)	Chrysene	15.80	228	186409	76.24	ppm	98
91)	bis(2-Ethylhexyl)phthalate	16.05	149	167531	78.64	ppm	97
93)	Di-n-octylphthalate	17.26	149	307898	78.69	ppm	98
94)	Benzo[b]fluoranthene	17.67	252	211276	78.69	ppm	98
95)	Benzo[k]fluoranthene	17.73	252	184557	74.17	ppm	96
96)	Benzo[a]pyrene	18.20	252	188088	79.52	ppm	97
97)	Indeno[1,2,3-cd]pyrene	19.92	276	172564	80.40	ppm	97
98)	Dibenz(a,h)acridine	19.62	279	158537	82.97	ppm	98
99)	Dibenz[a,h]anthracene	19.97	278	172756	79.96	ppm	91
100)	7,12-Dimethylbenz(a)anthra	17.69	256	86785	93.31	ppm	100
101)	Benzo[g,h,i]perylene	20.28	276	182324	79.96	ppm	91

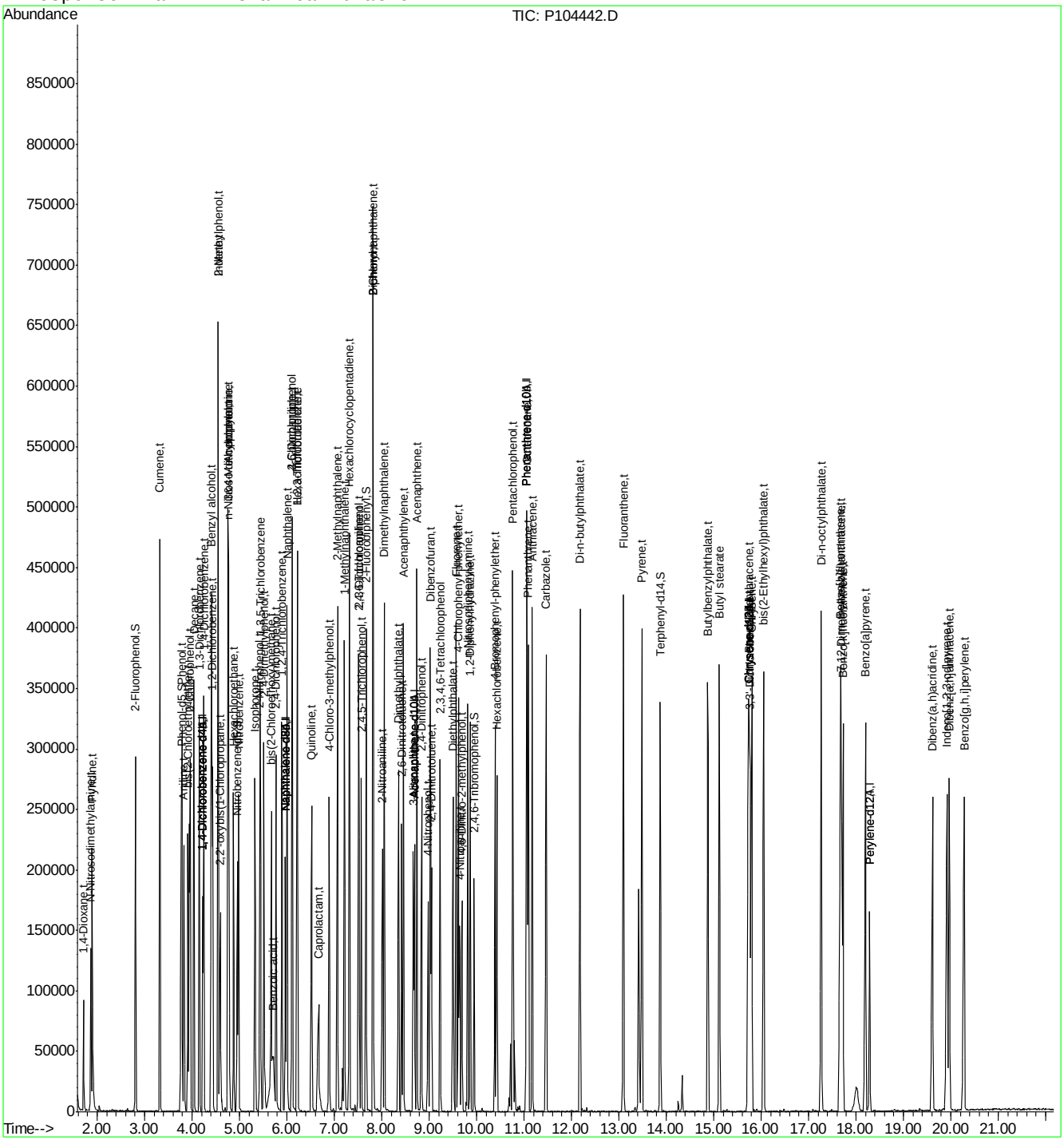
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104442.D Vial: 3
Acq On : 28 Apr 2016 5:51 pm Operator: ashleyd
Sample : ic4604-80 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:00 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration



Manual Integration Approval Summary

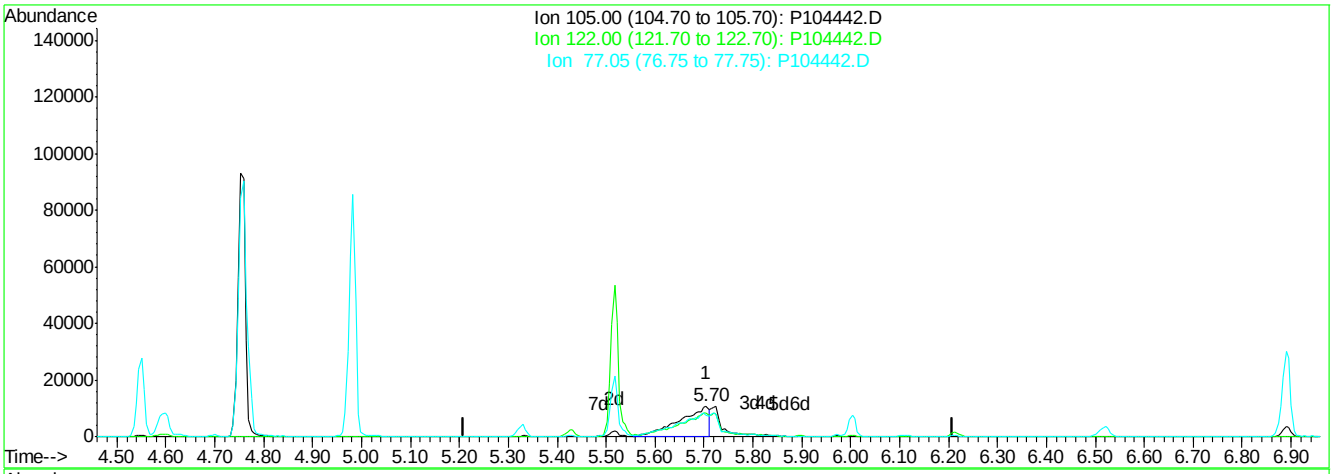
Sample Number:	EP4604-IC4604	**Method:**	SW846 8270D
Lab FileID:	P104442.D	**Analyst approved:**	04/29/16 10:03 Kristi Schollenberger
Injection Time:	04/28/16 17:51	**Supervisor approved:**	04/29/16 13:31 Nina Pandya

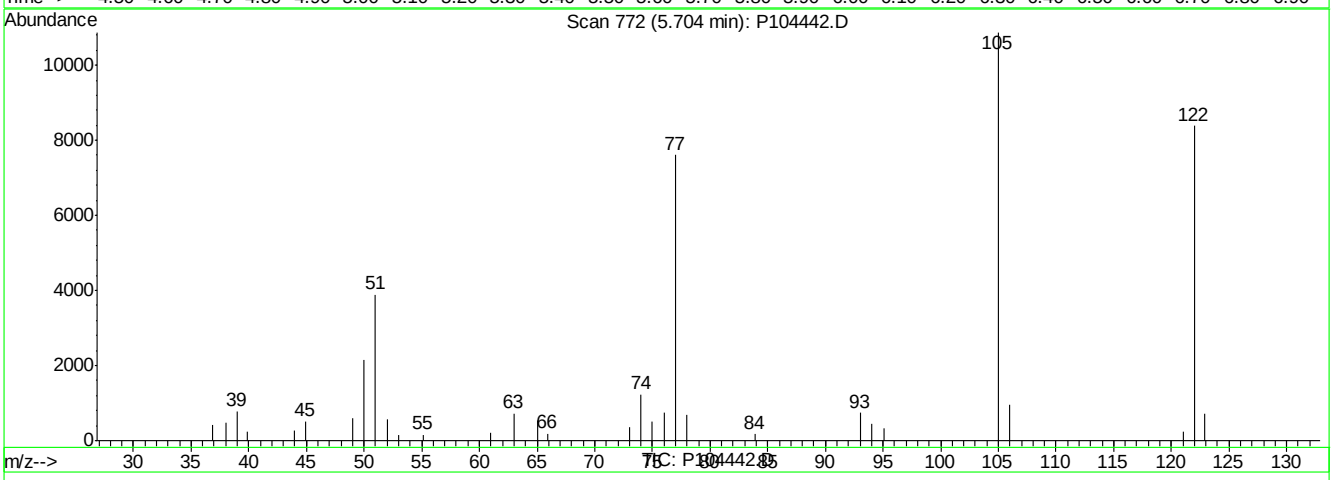
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.70	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104442.D Vial: 3
Acq On : 28 Apr 2016 5:51 pm Operator: ashleyd
Sample : ic4604-80 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 8:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Multiple Level Calibration





(31) Benzoic acid (t)

5.70min 69.04ppm

response 44656

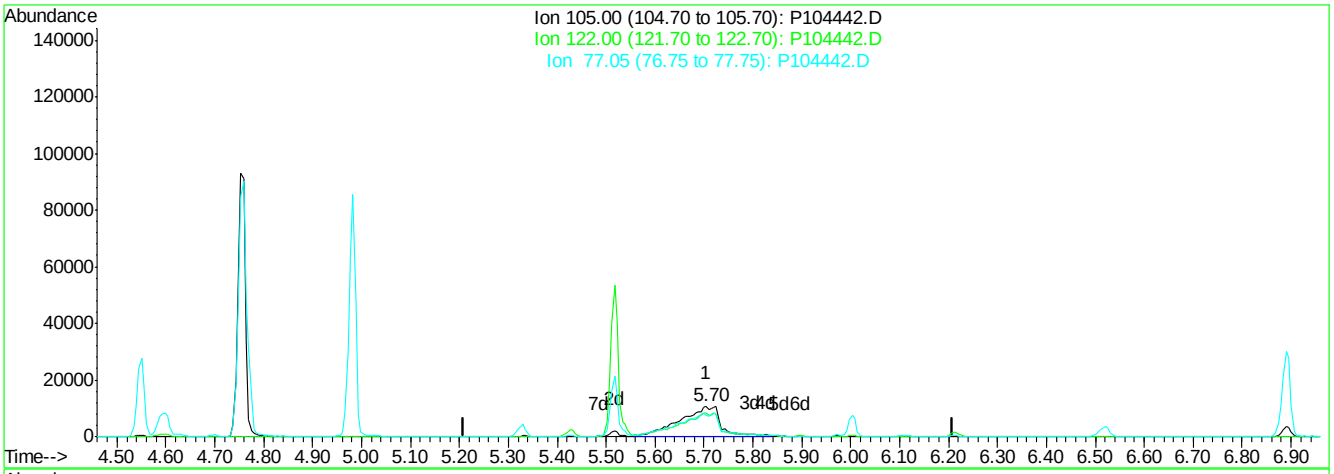
Ion	Exp%	Act%
105.00	100	100
122.00	72.30	70.03
77.05	69.60	61.67
0.00	0.00	0.00

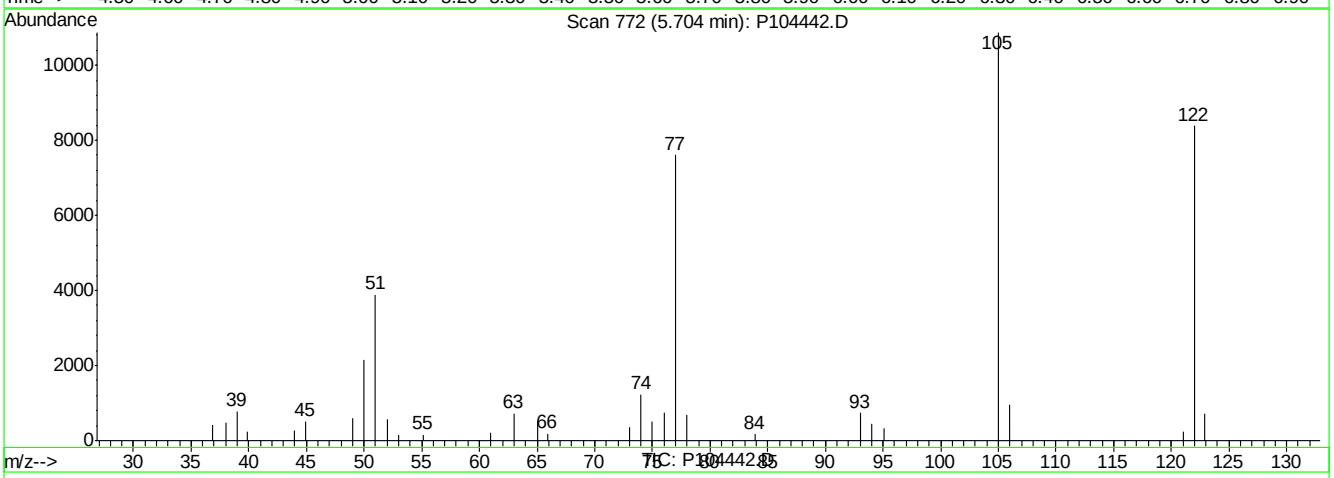
P104442.D MP4600.M Fri Apr 29 08:59:05 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104442.D Vial: 3
Acq On : 28 Apr 2016 5:51 pm Operator: ashleyd
Sample : ic4604-80 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 8:59 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Multiple Level Calibration





(31) Benzoic acid (t)

5.70min 97.44ppm m

response 63026

Ion	Exp%	Act%
105.00	100	100
122.00	72.30	77.16
77.05	69.60	69.96
0.00	0.00	0.00

P104442.D MP4600.M Fri Apr 29 08:59:18 2016

SGS ACCUTEST JC19759

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/29/16 13:31

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104443.D Vial: 4
Acq On : 28 Apr 2016 6:20 pm Operator: ashleyd
Sample : icc4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:00:52 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	28330	40.00	ppm	-0.02
24) Naphthalene-d8	5.97	136	101832	40.00	ppm	-0.02
47) Acenaphthene-d10	8.69	164	56247	40.00	ppm	-0.02
69) Phenanthrene-d10	11.05	188	98835	40.00	ppm	-0.02
83) Chrysene-d12	15.75	240	94206	40.00	ppm	-0.02
92) Perylene-d12	18.29	264	84406	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.22	152	28330	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	101832	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.69	164	56247	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	98835	40.00	ppm	-0.02
147) Chrysene-d12A	15.75	240	94206	40.00	ppm	-0.02
155) Perylene-d12A	18.29	264	84406	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	28330	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	98835	40.00	ppm	-0.02
163) Chrysene-d12b	15.75	240	94206	40.00	ppm	-0.01
165) Naphthalene-d8b	5.97	136	101832	40.00	ppm	-0.01
167) Acenaphthene-d10b	8.69	164	56247	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	101832	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	28330	40.00	ppm	0.06
176) Chrysene-d12c	15.75	240	94206	40.00	ppm	-0.02
178) Chrysene-d12d	15.75	240	94206	40.00	ppm	-0.02
180) Naphthalene-d8d	5.97	136	101832	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.81	112	50597	47.00	ppm	-0.01
Spiked Amount 50.000			Recovery = 94.00%			
8) Phenol-d5	3.76	99	63227	47.16	ppm	-0.02
Spiked Amount 50.000			Recovery = 94.32%			
25) Nitrobenzene-d5	4.95	82	53062	50.01	ppm	-0.02
Spiked Amount 50.000			Recovery = 100.02%			
51) 2-Fluorobiphenyl	7.66	172	89466	47.69	ppm	-0.02
Spiked Amount 50.000			Recovery = 95.38%			
73) 2,4,6-Tribromophenol	9.95	330	13379	57.37	ppm	-0.02
Spiked Amount 50.000			Recovery = 114.74%			
85) Terphenyl-d14	13.87	244	92416	49.46	ppm	-0.02
Spiked Amount 50.000			Recovery = 98.92%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.71	88	19337	37.09	ppm	91
3) Pyridine	1.89	79	50755	43.17	ppm	92
4) N-Nitrosodimethylamine	1.86	42	26912	51.03	ppm	85
6) Indene	4.55	116	75116	45.64	ppm	98
7) Cumene	3.32	105	116366	48.68	ppm	98
9) Phenol	3.78	94	61485	44.05	ppm	85
10) Aniline	3.83	93	69027	46.66	ppm	96
11) bis(2-Chloroethyl)ether	3.91	93	45444	44.16	ppm	97
12) 2-Chlorophenol	3.96	128	47222	45.95	ppm	98
13) Decane	4.04	43	55334	43.78	ppm	98
14) 1,3-Dichlorobenzene	4.15	146	50247	45.98	ppm	94
15) 1,4-Dichlorobenzene	4.25	146	49641	46.92	ppm	99

(#) = qualifier out of range (m) = manual integration
P104443.D MP4600.M Fri Apr 29 09:03:06 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104443.D Vial: 4
Acq On : 28 Apr 2016 6:20 pm Operator: ashleyd
Sample : icc4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:00:52 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
16) Benzyl alcohol	4.40	108	29698	46.56 ppm		85
17) 1,2-Dichlorobenzene	4.43	146	47786	48.29 ppm		99
18) Acetophenone	4.75	105	65886	48.82 ppm		97
19) 2-Methylphenol	4.54	108	40555	47.37 ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.60	121	13598	46.33 ppm	#	87
21) 3&4-Methylphenol	4.76	108	42918	47.68 ppm		96
22) n-Nitroso-di-n-propylamine	4.77	70	33872	45.61 ppm		98
23) Hexachloroethane	4.88	201	19193	52.05 ppm		90
26) Nitrobenzene	4.98	77	53258	49.33 ppm		98
27) Quinoline	6.51	129	89277	48.25 ppm		97
28) Isophorone	5.32	82	92164	49.23 ppm		99
29) 2-Nitrophenol	5.43	139	24885	50.00 ppm		90
30) 2,4-Dimethylphenol	5.51	107	46225	56.75 ppm		92
31) Benzoic acid	5.68	105	40298m	60.97 ppm		
32) bis(2-Chloroethoxy)methane	5.67	93	55589	46.09 ppm		99
33) 2,4-Dichlorophenol	5.77	162	37376	49.67 ppm		100
34) 2,6-Dichlorophenol	6.11	162	35404	48.56 ppm		98
35) 1,3,5-Trichlorobenzene	5.44	180	43932	51.02 ppm		95
36) 1,2,4-Trichlorobenzene	5.90	180	41729	48.83 ppm		95
37) 1,2,3-Trichlorobenzene	6.22	180	39601	50.71 ppm		97
38) Naphthalene	6.00	128	131476	48.91 ppm		99
39) 4-Chloroaniline	6.11	127	53685	49.79 ppm		96
40) 2,3-Dichloroaniline	7.50	161	44578	50.14 ppm		96
41) Caprolactam	6.64	55	24477	50.44 ppm		96
42) Hexachlorobutadiene	6.21	225	26242	59.48 ppm		92
43) 4-Chloro-3-methylphenol	6.88	107	43020	53.73 ppm		92
44) 2-Methylnaphthalene	7.06	141	70766	48.02 ppm		90
45) 1-Methylnaphthalene	7.21	142	81634	48.17 ppm		96
46) Dimethylnaphthalene	8.05	156	72313	50.22 ppm		93
48) Hexachlorocyclopentadiene	7.32	237	60751	119.04 ppm		100
49) 2,4,6-Trichlorophenol	7.52	196	27104	50.64 ppm		97
50) 2,4,5-Trichlorophenol	7.56	196	30183	53.01 ppm		94
52) 2-Chloronaphthalene	7.81	162	76377	47.15 ppm		92
53) Biphenyl	7.81	154	96397	45.95 ppm		99
54) 2-Nitroaniline	8.01	65	29225	52.64 ppm		86
55) Dimethylphthalate	8.35	163	92740	49.34 ppm		99
56) Acenaphthylene	8.46	152	130078	46.92 ppm		97
57) 2,6-Dinitrotoluene	8.42	165	20661	51.31 ppm		92
58) 3-Nitroaniline	8.66	138	24374	48.71 ppm		96
59) Acenaphthene	8.74	153	80418	48.47 ppm		96
60) 2,4-Dinitrophenol	8.83	184	24755	148.40 ppm		93
61) 4-Nitrophenol	8.97	109	17096	66.03 ppm	#	72
62) Dibenzofuran	9.02	168	115542	48.95 ppm		95
63) 2,4-Dinitrotoluene	9.04	165	27979	56.01 ppm		87
64) 2,3,4,6-Tetrachlorophenol	9.22	232	24592	54.59 ppm		93
65) Diethylphthalate	9.50	149	101354	49.39 ppm		98
66) Fluorene	9.57	166	92741	49.26 ppm		99
67) 4-Chlorophenyl-phenylether	9.61	204	42048	47.93 ppm		95
68) 4-Nitroaniline	9.64	138	23774	49.98 ppm		85

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104443.D Vial: 4
Acq On : 28 Apr 2016 6:20 pm Operator: ashleyd
Sample : icc4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:00:52 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	9.68	198	16361	61.38	ppm	92
71)	n-Nitrosodiphenylamine	9.81	169	60161	45.28	ppm	97
72)	1,2-Diphenylhydrazine	9.86	77	101044	46.85	ppm	98
74)	4-Bromophenyl-phenylether	10.39	248	26009	48.80	ppm	98
75)	Hexachlorobenzene	10.43	284	26940	50.42	ppm	86
76)	Pentachlorophenol	10.76	266	37145	110.60	ppm	100
77)	Phenanthrene	11.09	178	121274	47.33	ppm	99
78)	Anthracene	11.17	178	124510	47.81	ppm	97
79)	Carbazole	11.46	167	123046	47.39	ppm	98
80)	Di-n-butylphthalate	12.18	149	178727	49.49	ppm	99
81)	Fluoranthene	13.09	202	152741	49.61	ppm	92
82)	Octadecane	11.06	57	68483	46.40	ppm	97
84)	Pyrene	13.48	202	157118	47.49	ppm	93
86)	Butylbenzylphthalate	14.87	149	82214	49.59	ppm	98
87)	Butyl stearate	15.11	56	52155	43.79	ppm	97
88)	Benzo[a]anthracene	15.73	228	134222	48.26	ppm	97
89)	3,3'-Dichlorobenzidine	15.76	252	50205	52.27	ppm	99
90)	Chrysene	15.80	228	123357	48.12	ppm	99
91)	bis(2-Ethylhexyl)phthalate	16.05	149	109578	49.06	ppm	96
93)	Di-n-octylphthalate	17.26	149	199336	49.60	ppm	98
94)	Benzo[b]fluoranthene	17.66	252	135029	48.96	ppm	98
95)	Benzo[k]fluoranthene	17.72	252	121154	47.40	ppm	96
96)	Benzo[a]pyrene	18.19	252	122057	50.24	ppm	96
97)	Indeno[1,2,3-cd]pyrene	19.91	276	112158	50.88	ppm	97
98)	Dibenz(a,h)acridine	19.60	279	101192	51.56	ppm	98
99)	Dibenz[a,h]anthracene	19.96	278	109306	49.26	ppm	94
100)	7,12-Dimethylbenz(a)anthra	17.68	256	57056	59.72	ppm	97
101)	Benzo[g,h,i]perylene	20.27	276	116938	49.93	ppm	93

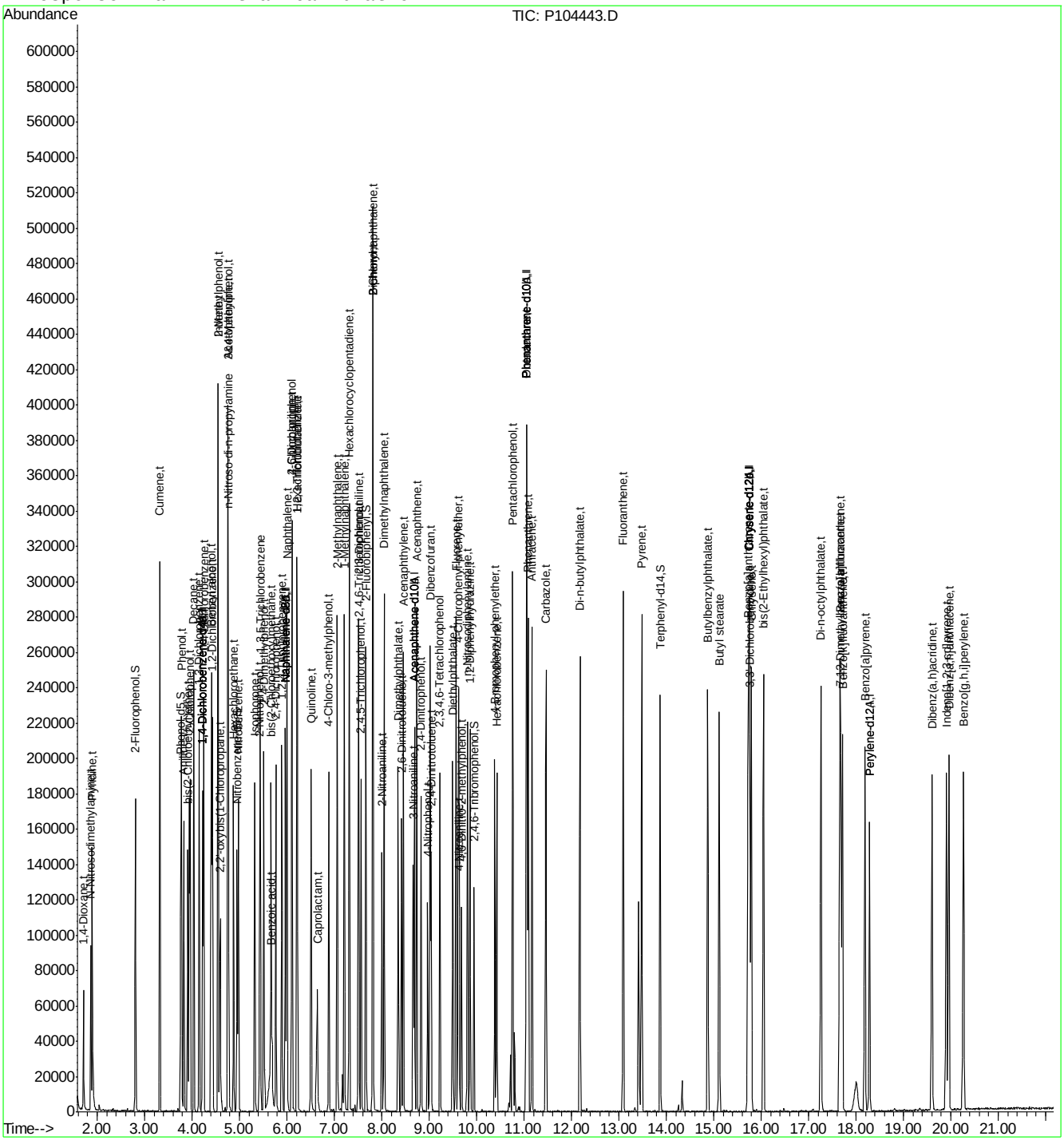
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104443.D Vial: 4
Acq On : 28 Apr 2016 6:20 pm Operator: ashleyd
Sample : icc4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:02 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Manual Integration Approval Summary

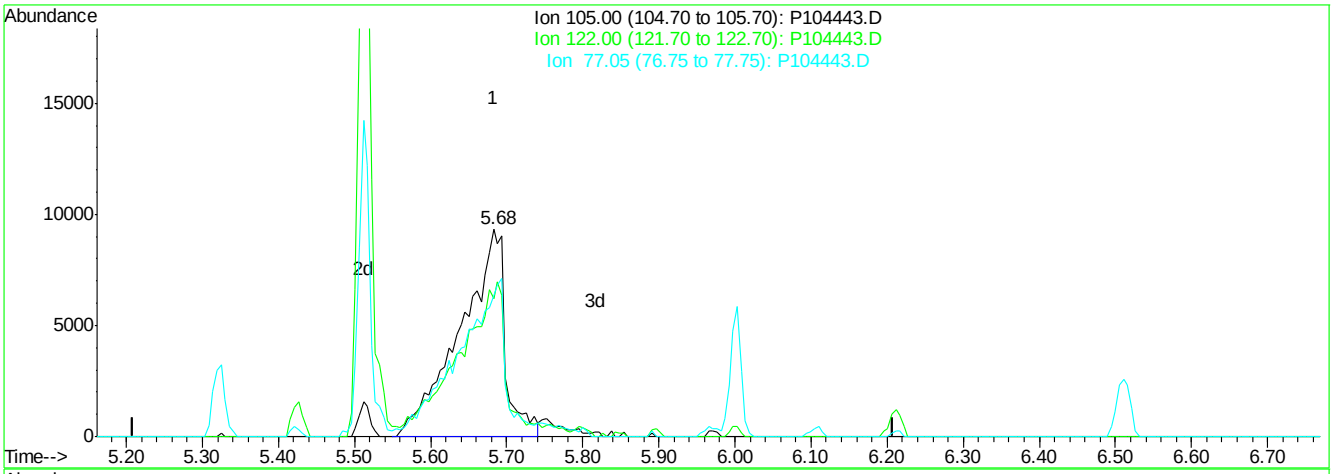
Sample Number:	EP4604-ICC4604	**Method:**	SW846 8270D
Lab FileID:	P104443.D	**Analyst approved:**	04/29/16 10:03 Kristi Schollenberger
Injection Time:	04/28/16 18:20	**Supervisor approved:**	04/29/16 13:31 Nina Pandya

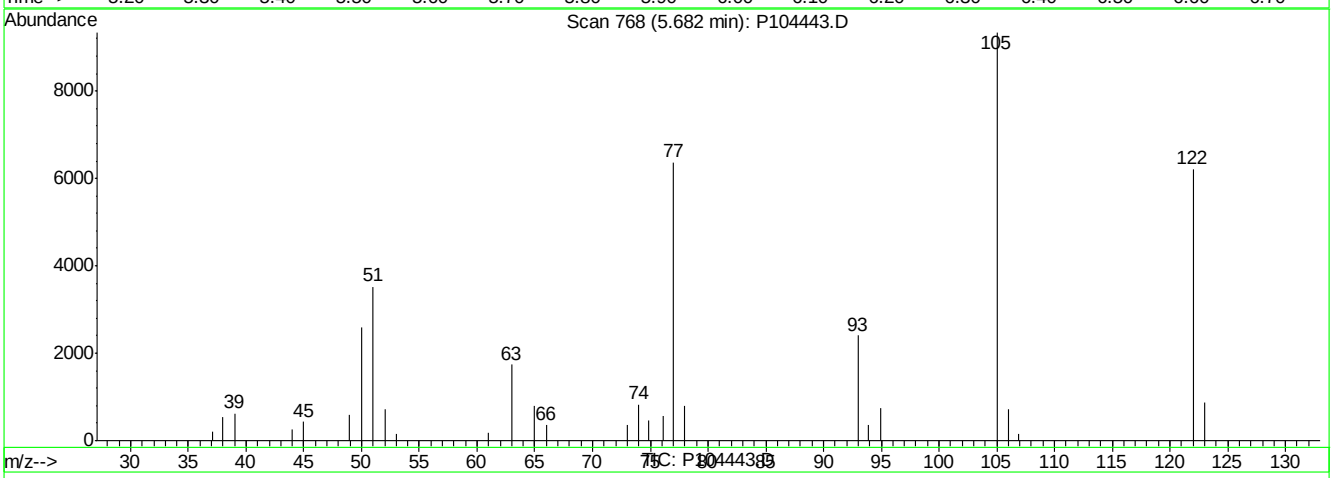
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.68	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104443.D Vial: 4
Acq On : 28 Apr 2016 6:20 pm Operator: ashleyd
Sample : icc4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:00 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Multiple Level Calibration





(31) Benzoic acid (t)

5.68min 58.44ppm

response 38627

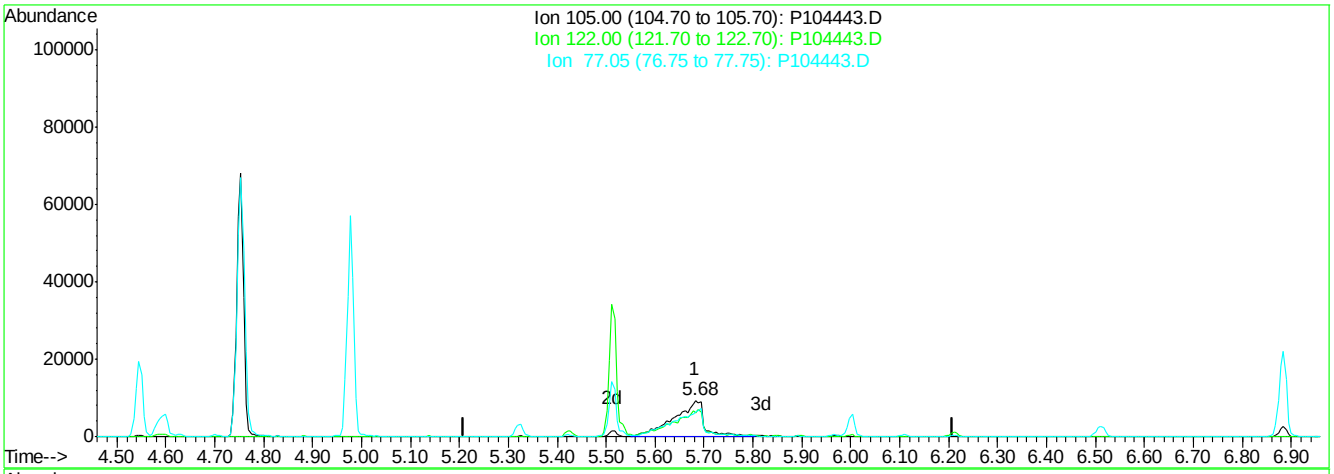
Ion	Exp%	Act%
105.00	100	100
122.00	72.30	62.91
77.05	69.60	65.70
0.00	0.00	0.00

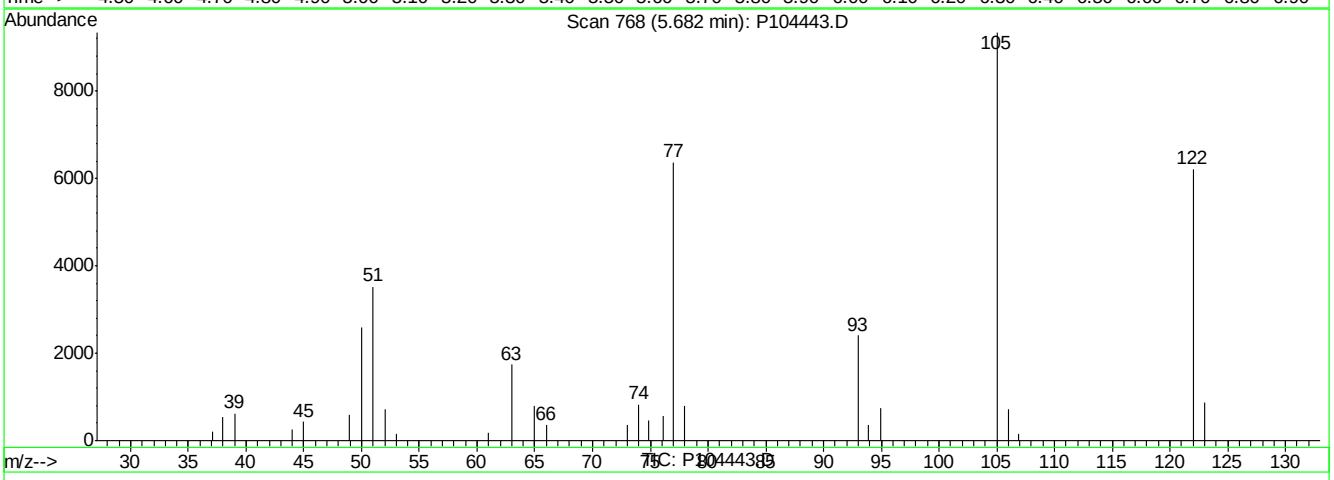
P104443.D MP4600.M Fri Apr 29 09:01:24 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104443.D Vial: 4
Acq On : 28 Apr 2016 6:20 pm Operator: ashleyd
Sample : icc4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Multiple Level Calibration





(31) Benzoic acid (t)

5.68min 60.97ppm m

response 40298

Ion	Exp%	Act%
105.00	100	100
122.00	72.30	66.51
77.05	69.60	68.28
0.00	0.00	0.00

P104443.D MP4600.M Fri Apr 29 09:01:35 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104444.D Vial: 5
Acq On : 28 Apr 2016 6:49 pm Operator: ashleyd
Sample : ic4604-25 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:03:12 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	28694	40.00	ppm	-0.02
24) Naphthalene-d8	5.97	136	104172	40.00	ppm	-0.02
47) Acenaphthene-d10	8.68	164	56908	40.00	ppm	-0.02
69) Phenanthrene-d10	11.05	188	101197	40.00	ppm	-0.02
83) Chrysene-d12	15.74	240	95583	40.00	ppm	-0.03
92) Perylene-d12	18.28	264	85991	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.22	152	28694	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	104172	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.68	164	56908	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	101197	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	95583	40.00	ppm	-0.03
155) Perylene-d12A	18.28	264	85991	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	28694	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	101197	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	95583	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	104172	40.00	ppm	-0.01
167) Acenaphthene-d10b	8.68	164	56908	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	104172	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	28694	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	95583	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	95583	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	104172	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	24935	22.87	ppm	-0.02
Spiked Amount 50.000			Recovery = 45.74%			
8) Phenol-d5	3.76	99	33095	24.37	ppm	-0.02
Spiked Amount 50.000			Recovery = 48.74%			
25) Nitrobenzene-d5	4.95	82	27815	25.63	ppm	-0.02
Spiked Amount 50.000			Recovery = 51.26%			
51) 2-Fluorobiphenyl	7.66	172	46744	24.63	ppm	-0.02
Spiked Amount 50.000			Recovery = 49.26%			
73) 2,4,6-Tribromophenol	9.95	330	7506	31.44	ppm	-0.02
Spiked Amount 50.000			Recovery = 62.88%			
85) Terphenyl-d14	13.87	244	47001	24.79	ppm	-0.03
Spiked Amount 50.000			Recovery = 49.58%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.71	88	9533	18.06	ppm	95
3) Pyridine	1.89	79	26066	21.89	ppm	91
4) N-Nitrosodimethylamine	1.86	42	13209	24.73	ppm	80
6) Indene	4.55	116	40286	24.17	ppm	94
7) Cumene	3.32	105	61931	25.58	ppm	98
9) Phenol	3.78	94	32661	23.10	ppm	86
10) Aniline	3.82	93	37272	24.87	ppm	94
11) bis(2-Chloroethyl)ether	3.91	93	23360	22.41	ppm	95
12) 2-Chlorophenol	3.96	128	24097	23.15	ppm	94
13) Decane	4.04	43	29509	23.05	ppm	95
14) 1,3-Dichlorobenzene	4.15	146	27436	24.79	ppm	92
15) 1,4-Dichlorobenzene	4.25	146	26400	24.64	ppm	98

(#) = qualifier out of range (m) = manual integration
P104444.D MP4600.M Fri Apr 29 09:05:07 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104444.D Vial: 5
Acq On : 28 Apr 2016 6:49 pm Operator: ashleyd
Sample : ic4604-25 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:03:12 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.40	108	15812	24.47	ppm		92
17)	1,2-Dichlorobenzene	4.43	146	25011	24.95	ppm		99
18)	Acetophenone	4.75	105	34177	25.00	ppm		90
19)	2-Methylphenol	4.54	108	21808	25.15	ppm		99
20)	2,2'-oxybis(1-Chloropropan	4.59	121	7220	24.29	ppm	#	80
21)	3&4-Methylphenol	4.75	108	23021	25.25	ppm		98
22)	n-Nitroso-di-n-propylamine	4.76	70	17602	23.40	ppm		93
23)	Hexachloroethane	4.88	201	10131	27.13	ppm		95
26)	Nitrobenzene	4.97	77	27580	24.97	ppm		100
27)	Quinoline	6.51	129	45348	23.96	ppm		98
28)	Isophorone	5.32	82	47064	24.58	ppm		99
29)	2-Nitrophenol	5.42	139	12763	25.07	ppm		92
30)	2,4-Dimethylphenol	5.51	107	23738	28.49	ppm		93
31)	Benzoic acid	5.65	105	19901	29.43	ppm		95
32)	bis(2-Chloroethoxy)methane	5.66	93	28589	23.17	ppm		97
33)	2,4-Dichlorophenol	5.76	162	19343	25.13	ppm		95
34)	2,6-Dichlorophenol	6.10	162	18545	24.87	ppm		96
35)	1,3,5-Trichlorobenzene	5.44	180	23013	26.12	ppm		98
36)	1,2,4-Trichlorobenzene	5.89	180	22200	25.39	ppm		97
37)	1,2,3-Trichlorobenzene	6.22	180	20791	26.03	ppm		98
38)	Naphthalene	6.00	128	68334	24.85	ppm		98
39)	4-Chloroaniline	6.10	127	28450	25.79	ppm		98
40)	2,3-Dichloroaniline	7.50	161	23365	25.69	ppm		94
41)	Caprolactam	6.61	55	12101	24.38	ppm		94
42)	Hexachlorobutadiene	6.21	225	13427	29.75	ppm		92
43)	4-Chloro-3-methylphenol	6.87	107	22321	27.25	ppm		88
44)	2-Methylnaphthalene	7.06	141	37159	24.65	ppm		92
45)	1-Methylnaphthalene	7.21	142	42007	24.23	ppm		94
46)	Dimethylnaphthalene	8.05	156	37128	25.20	ppm		95
48)	Hexachlorocyclopentadiene	7.32	237	30205	58.50	ppm		98
49)	2,4,6-Trichlorophenol	7.51	196	13963	25.78	ppm		98
50)	2,4,5-Trichlorophenol	7.56	196	15386	26.71	ppm		93
52)	2-Chloronaphthalene	7.81	162	39681	24.21	ppm		90
53)	Biphenyl	7.81	154	50777	23.92	ppm		99
54)	2-Nitroaniline	8.00	65	14534	25.87	ppm		90
55)	Dimethylphthalate	8.34	163	47213	24.83	ppm		98
56)	Acenaphthylene	8.46	152	68704	24.49	ppm		98
57)	2,6-Dinitrotoluene	8.41	165	10589	25.99	ppm		94
58)	3-Nitroaniline	8.65	138	12698	25.08	ppm		99
59)	Acenaphthene	8.74	153	41382	24.65	ppm		99
60)	2,4-Dinitrophenol	8.82	184	10465	62.01	ppm		72
61)	4-Nitrophenol	8.96	109	8149	31.11	ppm	#	77
62)	Dibenzofuran	9.02	168	59480	24.91	ppm		93
63)	2,4-Dinitrotoluene	9.04	165	13791	27.29	ppm		85
64)	2,3,4,6-Tetrachlorophenol	9.22	232	11985	26.30	ppm		93
65)	Diethylphthalate	9.49	149	51055	24.59	ppm		96
66)	Fluorene	9.56	166	48079	25.24	ppm		99
67)	4-Chlorophenyl-phenylether	9.61	204	21443	24.16	ppm		87
68)	4-Nitroaniline	9.62	138	12314	25.59	ppm		87

(#) = qualifier out of range (m) = manual integration
P104444.D MP4600.M Fri Apr 29 09:05:08 2016

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104444.D Vial: 5
Acq On : 28 Apr 2016 6:49 pm Operator: ashleyd
Sample : ic4604-25 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:03:12 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	9.67	198	7775	28.49	ppm	83
71)	n-Nitrosodiphenylamine	9.80	169	31505	23.16	ppm	97
72)	1,2-Diphenylhydrazine	9.85	77	51413	23.28	ppm	96
74)	4-Bromophenyl-phenylether	10.38	248	12896	23.63	ppm	93
75)	Hexachlorobenzene	10.42	284	13717	25.07	ppm	90
76)	Pentachlorophenol	10.76	266	19050	55.40	ppm	98
77)	Phenanthrene	11.08	178	63596	24.24	ppm	99
78)	Anthracene	11.16	178	64344	24.13	ppm	99
79)	Carbazole	11.46	167	63642	23.94	ppm	99
80)	Di-n-butylphthalate	12.17	149	89055	24.08	ppm	99
81)	Fluoranthene	13.09	202	79151	25.11	ppm	92
82)	Octadecane	11.06	57	36072	23.87	ppm	98
84)	Pyrene	13.48	202	82503	24.58	ppm	93
86)	Butylbenzylphthalate	14.87	149	42363	25.18	ppm	98
87)	Butyl stearate	15.11	56	27301	22.59	ppm	96
88)	Benzo[a]anthracene	15.72	228	68178	24.16	ppm	98
89)	3,3'-Dichlorobenzidine	15.76	252	25616	26.29	ppm	98
90)	Chrysene	15.78	228	64315	24.73	ppm	98
91)	bis(2-Ethylhexyl)phthalate	16.05	149	55803	24.62	ppm	99
93)	Di-n-octylphthalate	17.26	149	100898	24.64	ppm	99
94)	Benzo[b]fluoranthene	17.65	252	70060	24.94	ppm	97
95)	Benzo[k]fluoranthene	17.70	252	65634	25.21	ppm	98
96)	Benzo[a]pyrene	18.18	252	62888	25.41	ppm	96
97)	Indeno[1,2,3-cd]pyrene	19.90	276	57414	25.56	ppm	98
98)	Dibenz(a,h)acridine	19.60	279	51245	25.63	ppm	99
99)	Dibenz[a,h]anthracene	19.95	278	57010	25.22	ppm	93
100)	7,12-Dimethylbenz(a)anthra	17.67	256	28856	29.65	ppm	97
101)	Benzo[g,h,i]perylene	20.26	276	60738	25.46	ppm	92

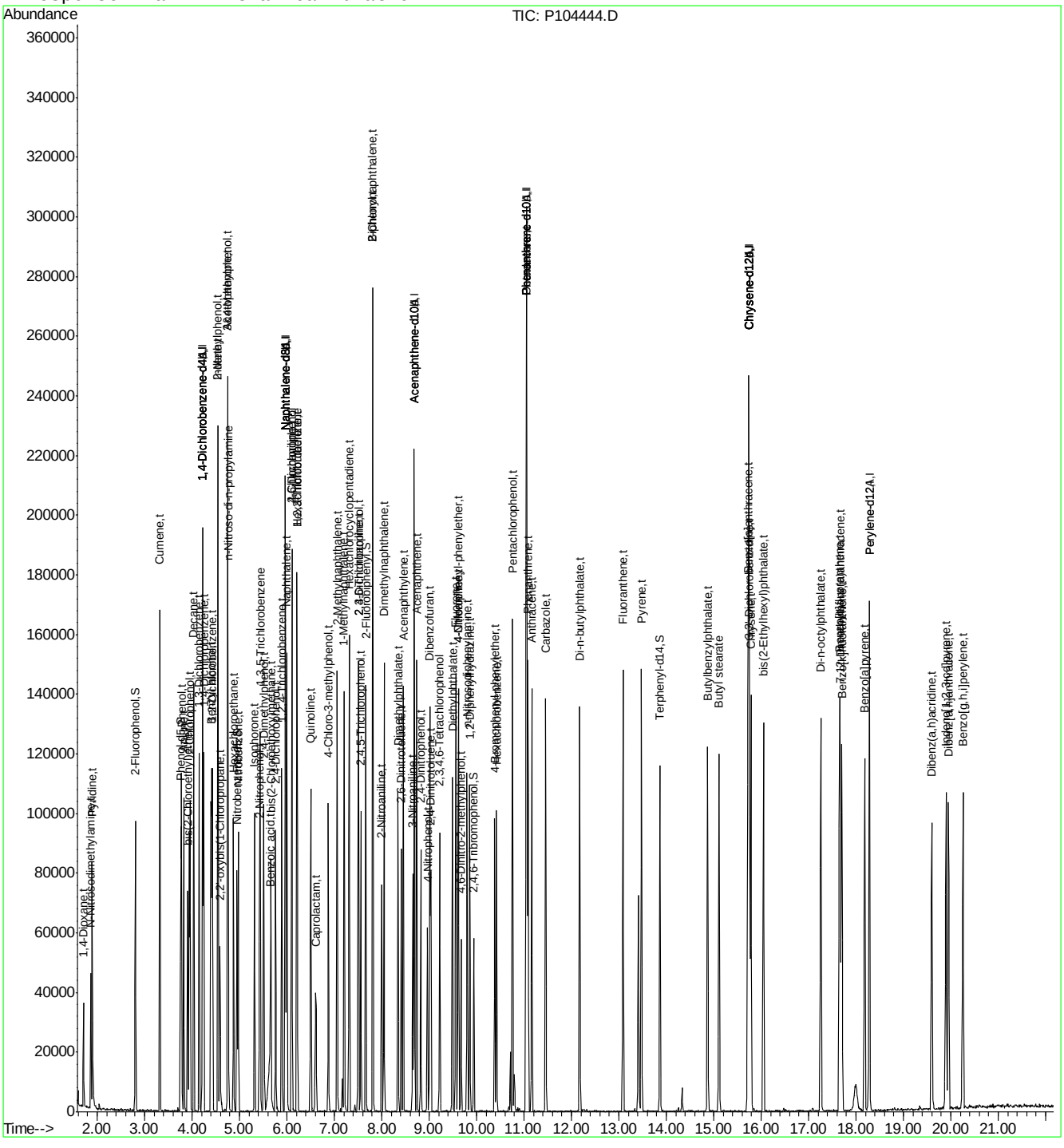
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104444.D Vial: 5
Acq On : 28 Apr 2016 6:49 pm Operator: ashleyd
Sample : ic4604-25 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:04 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104445.D Vial: 6
Acq On : 28 Apr 2016 7:18 pm Operator: ashleyd
Sample : ic4604-10 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:05:12 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	30611	40.00	ppm	-0.02
24) Naphthalene-d8	5.97	136	110128	40.00	ppm	-0.02
47) Acenaphthene-d10	8.68	164	59288	40.00	ppm	-0.02
69) Phenanthrene-d10	11.05	188	106950	40.00	ppm	-0.02
83) Chrysene-d12	15.74	240	102505	40.00	ppm	-0.03
92) Perylene-d12	18.28	264	89509	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.22	152	30611	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	110128	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.68	164	59288	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	106950	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	102505	40.00	ppm	-0.03
155) Perylene-d12A	18.28	264	89509	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	30611	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	106950	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	102505	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	110128	40.00	ppm	-0.02
167) Acenaphthene-d10b	8.68	164	59288	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	110128	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	30611	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	102505	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	102505	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	110128	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	10443	8.98	ppm	-0.02
Spiked Amount 50.000			Recovery = 17.96%			
8) Phenol-d5	3.76	99	13452	9.29	ppm	-0.02
Spiked Amount 50.000			Recovery = 18.58%			
25) Nitrobenzene-d5	4.95	82	11640	10.14	ppm	-0.02
Spiked Amount 50.000			Recovery = 20.28%			
51) 2-Fluorobiphenyl	7.66	172	20141	10.18	ppm	-0.03
Spiked Amount 50.000			Recovery = 20.36%			
73) 2,4,6-Tribromophenol	9.94	330	2943	11.66	ppm	-0.03
Spiked Amount 50.000			Recovery = 23.32%			
85) Terphenyl-d14	13.87	244	20004	9.84	ppm	-0.03
Spiked Amount 50.000			Recovery = 19.68%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.71	88	4237	7.52	ppm	93
3) Pyridine	1.89	79	10328	8.13	ppm	94
4) N-Nitrosodimethylamine	1.86	42	5304	9.31	ppm	88
6) Indene	4.54	116	17257	9.70	ppm	99
7) Cumene	3.32	105	26095	10.10	ppm	98
9) Phenol	3.78	94	13936	9.24	ppm	90
10) Aniline	3.82	93	15972	9.99	ppm	95
11) bis(2-Chloroethyl)ether	3.90	93	9576	8.61	ppm	94
12) 2-Chlorophenol	3.96	128	10724	9.66	ppm	96
13) Decane	4.04	43	12418	9.09	ppm	98
14) 1,3-Dichlorobenzene	4.15	146	11010	9.33	ppm	97
15) 1,4-Dichlorobenzene	4.25	146	10799	9.45	ppm	93

(#) = qualifier out of range (m) = manual integration
P104445.D MP4600.M Fri Apr 29 09:07:00 2016

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104445.D Vial: 6
Acq On : 28 Apr 2016 7:18 pm Operator: ashleyd
Sample : ic4604-10 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:05:12 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.40	108	6677	9.69	ppm		90
17)	1,2-Dichlorobenzene	4.43	146	10785	10.09	ppm		99
18)	Acetophenone	4.75	105	14665	10.06	ppm		84
19)	2-Methylphenol	4.54	108	9091	9.83	ppm		98
20)	2,2'-oxybis(1-Chloropropan	4.58	121	3188	10.05	ppm	#	55
21)	3&4-Methylphenol	4.75	108	9629	9.90	ppm		99
22)	n-Nitroso-di-n-propylamine	4.76	70	7430	9.26	ppm		94
23)	Hexachloroethane	4.88	201	4324	10.85	ppm		96
26)	Nitrobenzene	4.97	77	11794	10.10	ppm		94
27)	Quinoline	6.50	129	19376	9.68	ppm		99
28)	Isophorone	5.31	82	19496	9.63	ppm		99
29)	2-Nitrophenol	5.42	139	5070	9.42	ppm		98
30)	2,4-Dimethylphenol	5.51	107	10529	11.95	ppm		87
31)	Benzoic acid	5.61	105	6987	9.78	ppm		93
32)	bis(2-Chloroethoxy)methane	5.66	93	11805	9.05	ppm		96
33)	2,4-Dichlorophenol	5.76	162	7918	9.73	ppm		91
34)	2,6-Dichlorophenol	6.10	162	7473	9.48	ppm		97
35)	1,3,5-Trichlorobenzene	5.44	180	9864	10.59	ppm		98
36)	1,2,4-Trichlorobenzene	5.89	180	9026	9.77	ppm		96
37)	1,2,3-Trichlorobenzene	6.22	180	8604	10.19	ppm		98
38)	Naphthalene	6.00	128	28807	9.91	ppm		96
39)	4-Chloroaniline	6.10	127	12133	10.40	ppm		96
40)	2,3-Dichloroaniline	7.50	161	9620	10.01	ppm		97
41)	Caprolactam	6.59	55	5202	9.91	ppm		98
42)	Hexachlorobutadiene	6.21	225	5646	11.83	ppm		90
43)	4-Chloro-3-methylphenol	6.87	107	9008	10.40	ppm		87
44)	2-Methylnaphthalene	7.06	141	15744	9.88	ppm		95
45)	1-Methylnaphthalene	7.21	142	17674	9.64	ppm		96
46)	Dimethylnaphthalene	8.04	156	15522	9.97	ppm		91
48)	Hexachlorocyclopentadiene	7.31	237	12175	22.63	ppm		94
49)	2,4,6-Trichlorophenol	7.51	196	5854	10.38	ppm		90
50)	2,4,5-Trichlorophenol	7.55	196	6157	10.26	ppm		92
52)	2-Chloronaphthalene	7.81	162	16385	9.60	ppm		91
53)	Biphenyl	7.81	154	22275	10.07	ppm		95
54)	2-Nitroaniline	8.00	65	5449	9.31	ppm		91
55)	Dimethylphthalate	8.34	163	19724	9.96	ppm		98
56)	Acenaphthylene	8.46	152	29017	9.93	ppm		95
57)	2,6-Dinitrotoluene	8.41	165	4347	10.24	ppm		87
58)	3-Nitroaniline	8.65	138	4939	9.36	ppm		98
59)	Acenaphthene	8.73	153	18101	10.35	ppm		96
60)	2,4-Dinitrophenol	8.82	184	3781	21.50	ppm		95
61)	4-Nitrophenol	8.96	109	3162	11.59	ppm	#	64
62)	Dibenzofuran	9.02	168	24762	9.95	ppm		94
63)	2,4-Dinitrotoluene	9.04	165	5798	11.01	ppm		93
64)	2,3,4,6-Tetrachlorophenol	9.22	232	4981	10.49	ppm		95
65)	Diethylphthalate	9.49	149	21995	10.17	ppm		96
66)	Fluorene	9.56	166	19768	9.96	ppm		97
67)	4-Chlorophenyl-phenylether	9.61	204	9180	9.93	ppm		86
68)	4-Nitroaniline	9.61	138	4679	9.33	ppm		81

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104445.D Vial: 6
Acq On : 28 Apr 2016 7:18 pm Operator: ashleyd
Sample : ic4604-10 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:05:12 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	9.67	198	2640	9.15	ppm	84
71)	n-Nitrosodiphenylamine	9.80	169	13356	9.29	ppm	96
72)	1,2-Diphenylhydrazine	9.85	77	22240	9.53	ppm	97
74)	4-Bromophenyl-phenylether	10.38	248	5668	9.83	ppm	92
75)	Hexachlorobenzene	10.42	284	6106	10.56	ppm	83
76)	Pentachlorophenol	10.76	266	7743	21.31	ppm	98
77)	Phenanthrene	11.08	178	26992	9.74	ppm	97
78)	Anthracene	11.16	178	28435	10.09	ppm	97
79)	Carbazole	11.46	167	27220	9.69	ppm	99
80)	Di-n-butylphthalate	12.17	149	37264	9.53	ppm	99
81)	Fluoranthene	13.09	202	32832	9.85	ppm	88
82)	Octadecane	11.06	57	14996	9.39	ppm	97
84)	Pyrene	13.47	202	34543	9.59	ppm	90
86)	Butylbenzylphthalate	14.87	149	17110	9.48	ppm	95
87)	Butyl stearate	15.11	56	11010	8.50	ppm	94
88)	Benzo[a]anthracene	15.72	228	28603	9.45	ppm	95
89)	3,3'-Dichlorobenzidine	15.75	252	10216	9.77	ppm	98
90)	Chrysene	15.78	228	27170	9.74	ppm	97
91)	bis(2-Ethylhexyl)phthalate	16.05	149	23530	9.68	ppm	99
93)	Di-n-octylphthalate	17.25	149	40587	9.52	ppm	96
94)	Benzo[b]fluoranthene	17.65	252	28804	9.85	ppm	96
95)	Benzo[k]fluoranthene	17.70	252	27686	10.22	ppm	95
96)	Benzo[a]pyrene	18.18	252	26124	10.14	ppm	96
97)	Indeno[1,2,3-cd]pyrene	19.89	276	22578	9.66	ppm	95
98)	Dibenz(a,h)acridine	19.59	279	20463	9.83	ppm	99
99)	Dibenz[a,h]anthracene	19.95	278	23185	9.85	ppm	92
100)	7,12-Dimethylbenz(a)anthra	17.67	256	11910	11.76	ppm	99
101)	Benzo[g,h,i]perylene	20.25	276	24740	9.96	ppm	92

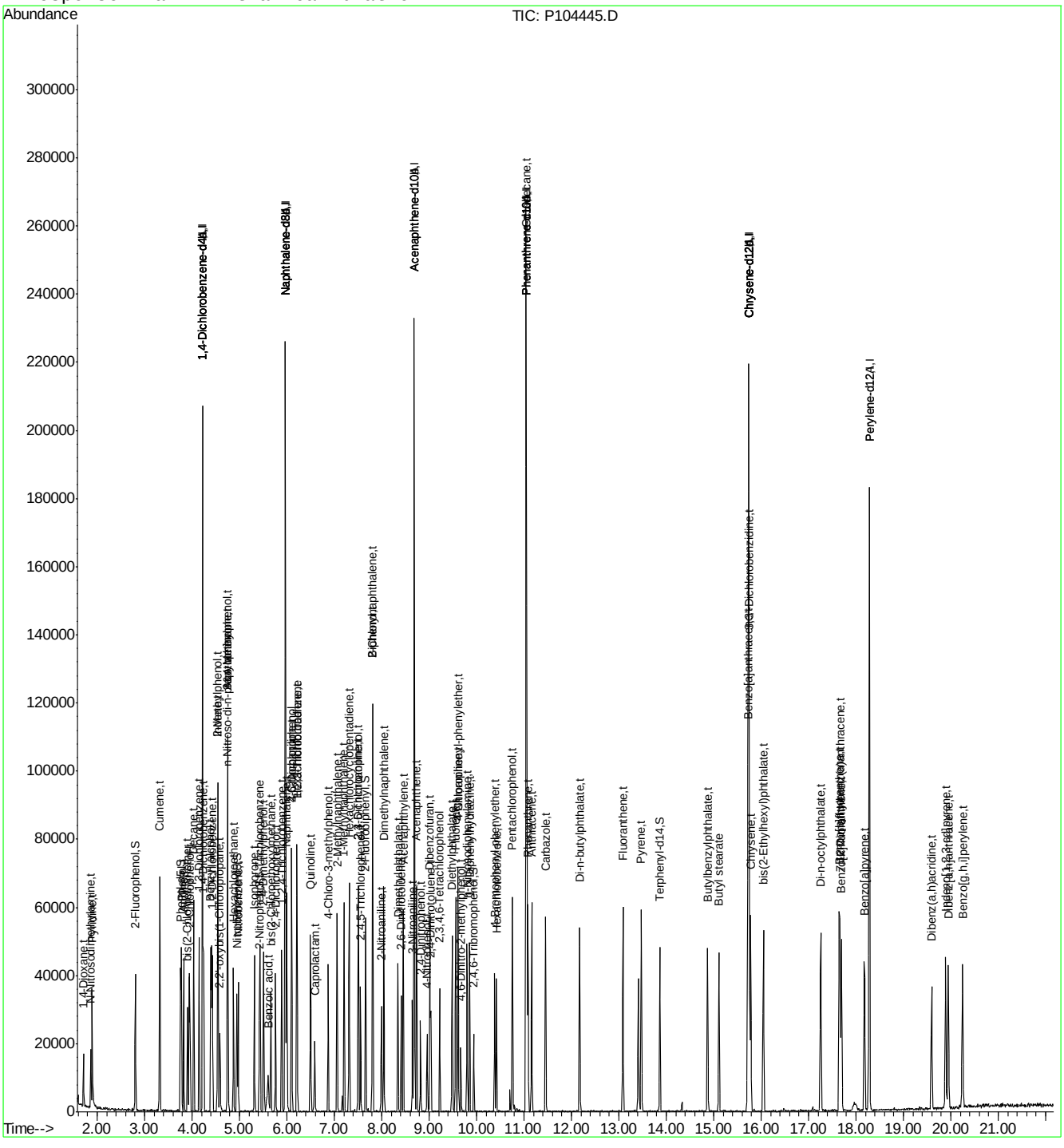
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104445.D Vial: 6
Acq On : 28 Apr 2016 7:18 pm Operator: ashleyd
Sample : ic4604-10 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:06 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104446.D Vial: 7
Acq On : 28 Apr 2016 7:47 pm Operator: ashleyd
Sample : ic4604-5 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:07:14 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	31543	40.00	ppm	-0.02
24) Naphthalene-d8	5.97	136	111354	40.00	ppm	-0.02
47) Acenaphthene-d10	8.69	164	59584	40.00	ppm	-0.02
69) Phenanthrene-d10	11.05	188	105707	40.00	ppm	-0.02
83) Chrysene-d12	15.74	240	100648	40.00	ppm	-0.03
92) Perylene-d12	18.29	264	91193	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.22	152	31543	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	111354	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.69	164	59584	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	105707	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	100648	40.00	ppm	-0.03
155) Perylene-d12A	18.29	264	91193	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	31543	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	105707	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	100648	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	111354	40.00	ppm	-0.02
167) Acenaphthene-d10b	8.69	164	59584	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	111354	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	31543	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	100648	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	100648	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	111354	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	5701	4.76	ppm	-0.02
Spiked Amount 50.000			Recovery = 9.52%			
8) Phenol-d5	3.76	99	7730	5.18	ppm	-0.02
Spiked Amount 50.000			Recovery = 10.36%			
25) Nitrobenzene-d5	4.95	82	6601	5.69	ppm	-0.02
Spiked Amount 50.000			Recovery = 11.38%			
51) 2-Fluorobiphenyl	7.66	172	11285	5.68	ppm	-0.03
Spiked Amount 50.000			Recovery = 11.36%			
73) 2,4,6-Tribromophenol	9.94	330	1688	6.77	ppm	-0.03
Spiked Amount 50.000			Recovery = 13.54%			
85) Terphenyl-d14	13.87	244	10803	5.41	ppm	-0.03
Spiked Amount 50.000			Recovery = 10.82%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.71	88	2415	4.16	ppm	89
3) Pyridine	1.90	79	5641	4.31	ppm	89
4) N-Nitrosodimethylamine	1.86	42	2728	4.65	ppm	89
6) Indene	4.54	116	9595	5.24	ppm	98
7) Cumene	3.32	105	14770	5.55	ppm	95
9) Phenol	3.78	94	8014	5.16	ppm	89
10) Aniline	3.82	93	9557	5.80	ppm	95
11) bis(2-Chloroethyl)ether	3.90	93	5776	5.04	ppm	90
12) 2-Chlorophenol	3.96	128	6073	5.31	ppm	94
13) Decane	4.04	43	7264	5.16	ppm	95
14) 1,3-Dichlorobenzene	4.15	146	6643	5.46	ppm	93
15) 1,4-Dichlorobenzene	4.25	146	6659	5.65	ppm	95

(#) = qualifier out of range (m) = manual integration
P104446.D MP4600.M Fri Apr 29 09:08:56 2016

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104446.D Vial: 7
Acq On : 28 Apr 2016 7:47 pm Operator: ashleyd
Sample : ic4604-5 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:07:14 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.40	108	3521	4.96	ppm		81
17)	1,2-Dichlorobenzene	4.43	146	6364	5.78	ppm		96
18)	Acetophenone	4.75	105	8359	5.56	ppm		86
19)	2-Methylphenol	4.54	108	5132	5.38	ppm		97
20)	2,2'-oxybis(1-Chloropropan	4.58	121	1812	5.54	ppm	#	54
21)	3&4-Methylphenol	4.75	108	5693	5.68	ppm		94
22)	n-Nitroso-di-n-propylamine	4.76	70	4323	5.23	ppm		99
23)	Hexachloroethane	4.88	201	2394	5.83	ppm		97
26)	Nitrobenzene	4.97	77	6647	5.63	ppm		99
27)	Quinoline	6.50	129	10853	5.36	ppm		96
28)	Isophorone	5.31	82	11248	5.49	ppm		98
29)	2-Nitrophenol	5.42	139	2756	5.06	ppm		90
30)	2,4-Dimethylphenol	5.51	107	5740	6.44	ppm		98
31)	Benzoic acid	5.59	105	3336	4.62	ppm		91
32)	bis(2-Chloroethoxy)methane	5.66	93	7119	5.40	ppm		95
33)	2,4-Dichlorophenol	5.76	162	4770	5.80	ppm		91
34)	2,6-Dichlorophenol	6.10	162	4479	5.62	ppm		95
35)	1,3,5-Trichlorobenzene	5.43	180	5431	5.77	ppm		99
36)	1,2,4-Trichlorobenzene	5.89	180	5606	6.00	ppm		85
37)	1,2,3-Trichlorobenzene	6.22	180	5002	5.86	ppm		97
38)	Naphthalene	6.00	128	16558	5.63	ppm		96
39)	4-Chloroaniline	6.10	127	7075	6.00	ppm		94
40)	2,3-Dichloroaniline	7.50	161	5517	5.67	ppm		91
41)	Caprolactam	6.58	55	2945	5.55	ppm		90
42)	Hexachlorobutadiene	6.21	225	3408	7.06	ppm		87
43)	4-Chloro-3-methylphenol	6.87	107	4883	5.58	ppm		88
44)	2-Methylnaphthalene	7.06	141	8696	5.40	ppm		90
45)	1-Methylnaphthalene	7.21	142	10432	5.63	ppm		93
46)	Dimethylnaphthalene	8.04	156	9255	5.88	ppm		98
48)	Hexachlorocyclopentadiene	7.31	237	6520	12.06	ppm		93
49)	2,4,6-Trichlorophenol	7.51	196	3170	5.59	ppm		96
50)	2,4,5-Trichlorophenol	7.55	196	3695	6.13	ppm		97
52)	2-Chloronaphthalene	7.81	162	9776	5.70	ppm		97
53)	Biphenyl	7.80	154	13338	6.00	ppm		89
54)	2-Nitroaniline	7.99	65	3322	5.65	ppm		81
55)	Dimethylphthalate	8.34	163	11236	5.64	ppm		98
56)	Acenaphthylene	8.46	152	16315	5.56	ppm		98
57)	2,6-Dinitrotoluene	8.41	165	2270	5.32	ppm		95
58)	3-Nitroaniline	8.65	138	2734	5.16	ppm	#	69
59)	Acenaphthene	8.73	153	10740	6.11	ppm		91
60)	2,4-Dinitrophenol	8.82	184	1702	9.63	ppm		89
61)	4-Nitrophenol	8.95	109	1475	5.38	ppm	#	84
62)	Dibenzofuran	9.02	168	14382	5.75	ppm		91
63)	2,4-Dinitrotoluene	9.04	165	3157	5.97	ppm		87
64)	2,3,4,6-Tetrachlorophenol	9.22	232	2831	5.93	ppm		96
65)	Diethylphthalate	9.48	149	12552	5.77	ppm		99
66)	Fluorene	9.56	166	11451	5.74	ppm		95
67)	4-Chlorophenyl-phenylether	9.61	204	5803	6.24	ppm		97
68)	4-Nitroaniline	9.61	138	2701	5.36	ppm		90

(#) = qualifier out of range (m) = manual integration
P104446.D MP4600.M Fri Apr 29 09:08:56 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104446.D Vial: 7
Acq On : 28 Apr 2016 7:47 pm Operator: ashleyd
Sample : ic4604-5 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:07:14 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
70)	4,6-Dinitro-2-methylphenol	9.67	198	1416	4.97	ppm		77
71)	n-Nitrosodiphenylamine	9.80	169	7407	5.21	ppm		97
72)	1,2-Diphenylhydrazine	9.85	77	12918	5.60	ppm		93
74)	4-Bromophenyl-phenylether	10.38	248	2885	5.06	ppm	#	64
75)	Hexachlorobenzene	10.42	284	3067	5.37	ppm		71
76)	Pentachlorophenol	10.75	266	3907	10.88	ppm		88
77)	Phenanthrene	11.08	178	15936	5.82	ppm		98
78)	Anthracene	11.16	178	17325	6.22	ppm		91
79)	Carbazole	11.45	167	15303	5.51	ppm		99
80)	Di-n-butylphthalate	12.17	149	20987	5.43	ppm		98
81)	Fluoranthene	13.08	202	18559	5.64	ppm		86
82)	Octadecane	11.06	57	8377	5.31	ppm		94
84)	Pyrene	13.47	202	19511	5.52	ppm		93
86)	Butylbenzylphthalate	14.87	149	9829	5.55	ppm		97
87)	Butyl stearate	15.11	56	6241	4.90	ppm		96
88)	Benzo[a]anthracene	15.72	228	16102	5.42	ppm		94
89)	3,3'-Dichlorobenzidine	15.75	252	6100	5.94	ppm		91
90)	Chrysene	15.78	228	15712	5.74	ppm		94
91)	bis(2-Ethylhexyl)phthalate	16.05	149	12426	5.21	ppm		95
93)	Di-n-octylphthalate	17.25	149	22554	5.19	ppm		98
94)	Benzo[b]fluoranthene	17.65	252	16668	5.59	ppm		99
95)	Benzo[k]fluoranthene	17.70	252	16113	5.84	ppm		96
96)	Benzo[a]pyrene	18.18	252	14396	5.48	ppm		98
97)	Indeno[1,2,3-cd]pyrene	19.89	276	13274	5.57	ppm		95
98)	Dibenz(a,h)acridine	19.59	279	11564	5.45	ppm		91
99)	Dibenz[a,h]anthracene	19.94	278	13118	5.47	ppm		95
100)	7,12-Dimethylbenz(a)anthra	17.67	256	6540	6.34	ppm		93
101)	Benzo[g,h,i]perylene	20.25	276	14323	5.66	ppm		89

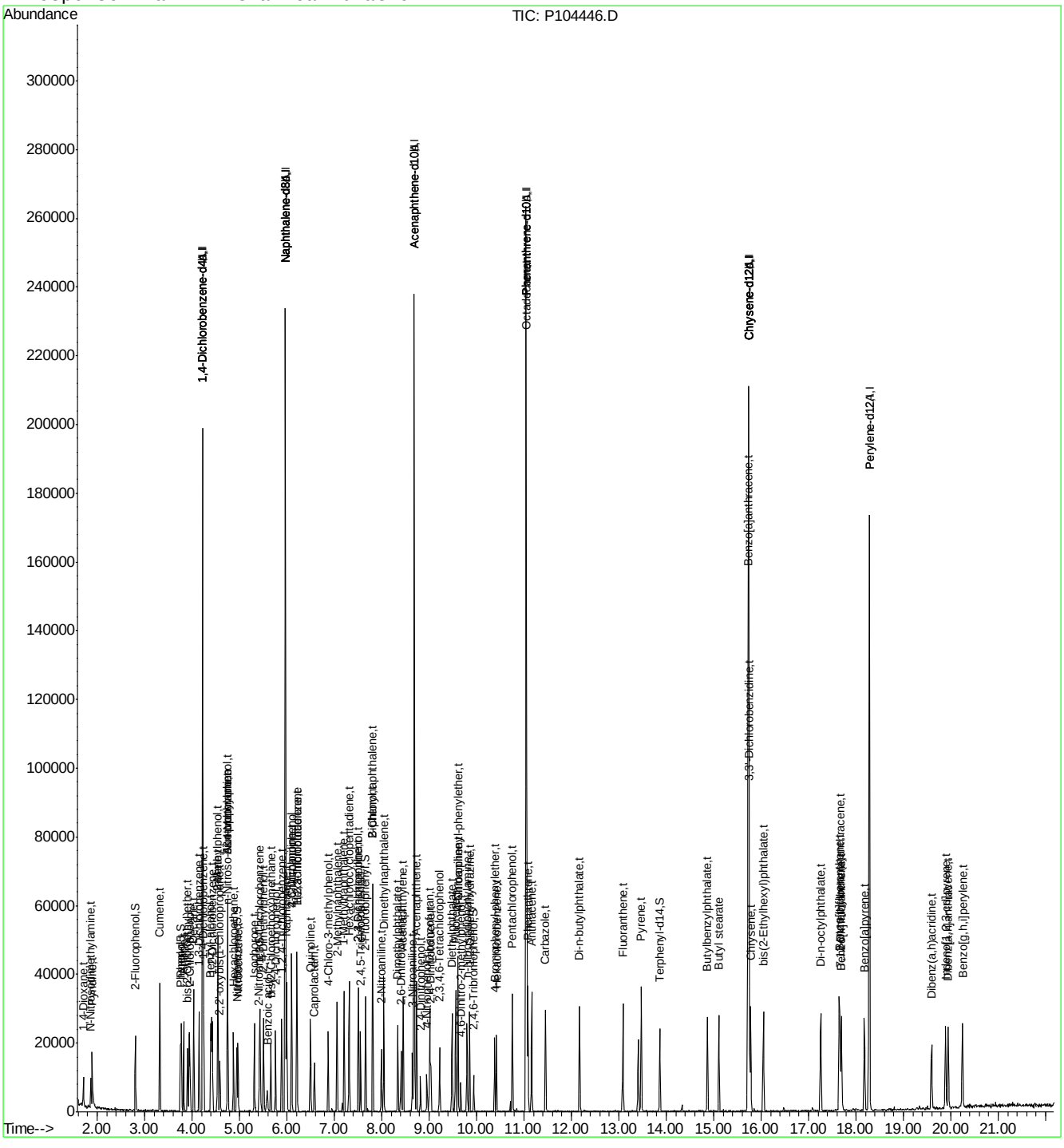
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104446.D Vial: 7
Acq On : 28 Apr 2016 7:47 pm Operator: ashleyd
Sample : ic4604-5 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:08 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104447.D Vial: 8
Acq On : 28 Apr 2016 8:16 pm Operator: ashleyd
Sample : ic4604-2 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:09:03 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	32641	40.00	ppm	-0.02
24) Naphthalene-d8	5.97	136	113916	40.00	ppm	-0.02
47) Acenaphthene-d10	8.69	164	61339	40.00	ppm	-0.02
69) Phenanthrene-d10	11.05	188	107279	40.00	ppm	-0.02
83) Chrysene-d12	15.74	240	101749	40.00	ppm	-0.03
92) Perylene-d12	18.29	264	91710	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.22	152	32641	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	113916	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.69	164	61339	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	107279	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	101749	40.00	ppm	-0.03
155) Perylene-d12A	18.29	264	91710	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	32641	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	107279	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	101749	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	113916	40.00	ppm	-0.02
167) Acenaphthene-d10b	8.69	164	61339	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	113916	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	32641	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	101749	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	101749	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	113916	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	2244	1.81	ppm	-0.02
Spiked Amount 50.000			Recovery	=	3.62%	
8) Phenol-d5	3.76	99	3116	2.02	ppm	-0.02
Spiked Amount 50.000			Recovery	=	4.04%	
25) Nitrobenzene-d5	4.95	82	2681	2.26	ppm	-0.02
Spiked Amount 50.000			Recovery	=	4.52%	
51) 2-Fluorobiphenyl	7.66	172	4428	2.16	ppm	-0.03
Spiked Amount 50.000			Recovery	=	4.32%	
73) 2,4,6-Tribromophenol	9.94	330	590	2.33	ppm	-0.03
Spiked Amount 50.000			Recovery	=	4.66%	
85) Terphenyl-d14	13.86	244	4373	2.17	ppm	-0.03
Spiked Amount 50.000			Recovery	=	4.34%	

Target Compounds						Qvalue
2) 1,4-Dioxane	1.71	88	959	1.60	ppm	94
3) Pyridine	1.90	79	1701	1.26	ppm	76
4) N-Nitrosodimethylamine	1.87	42	1043	1.72	ppm	90
6) Indene	4.54	116	4079	2.15	ppm	96
7) Cumene	3.32	105	6245	2.27	ppm	96
9) Phenol	3.77	94	3071	1.91	ppm	95
10) Aniline	3.82	93	3521	2.07	ppm	95
11) bis(2-Chloroethyl)ether	3.90	93	2311	1.95	ppm	94
12) 2-Chlorophenol	3.96	128	2404	2.03	ppm	89
13) Decane	4.04	43	3186	2.19	ppm	90
14) 1,3-Dichlorobenzene	4.15	146	2832	2.25	ppm	94
15) 1,4-Dichlorobenzene	4.25	146	2568	2.11	ppm	92

(#) = qualifier out of range (m) = manual integration
P104447.D MP4600.M Fri Apr 29 09:10:36 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104447.D Vial: 8
Acq On : 28 Apr 2016 8:16 pm Operator: ashleyd
Sample : ic4604-2 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:09:03 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
16) Benzyl alcohol	4.40	108	1328	1.81 ppm	#	69
17) 1,2-Dichlorobenzene	4.43	146	2478	2.17 ppm		92
18) Acetophenone	4.74	105	3157	2.03 ppm		82
19) 2-Methylphenol	4.54	108	1995	2.02 ppm		93
20) 2,2'-oxybis(1-Chloropropan	4.60	121	586	1.73 ppm	#	26
21) 3&4-Methylphenol	4.75	108	2140	2.06 ppm		90
22) n-Nitroso-di-n-propylamine	4.75	70	1758	2.05 ppm		85
23) Hexachloroethane	4.88	201	1139	2.68 ppm		87
26) Nitrobenzene	4.97	77	2629	2.18 ppm		97
27) Quinoline	6.49	129	4566	2.21 ppm		92
28) Isophorone	5.31	82	4336	2.07 ppm		89
29) 2-Nitrophenol	5.42	139	984	1.77 ppm		80
30) 2,4-Dimethylphenol	5.51	107	2269	2.49 ppm		79
31) Benzoic acid	5.57	105	1050	1.42 ppm	#	74
32) bis(2-Chloroethoxy)methane	5.66	93	2776	2.06 ppm		92
33) 2,4-Dichlorophenol	5.76	162	1760	2.09 ppm		92
34) 2,6-Dichlorophenol	6.10	162	1698	2.08 ppm		98
35) 1,3,5-Trichlorobenzene	5.44	180	2147	2.23 ppm		88
36) 1,2,4-Trichlorobenzene	5.89	180	2009	2.10 ppm		86
37) 1,2,3-Trichlorobenzene	6.21	180	2160	2.47 ppm		96
38) Naphthalene	6.00	128	6641	2.21 ppm		94
39) 4-Chloroaniline	6.10	127	2625	2.18 ppm		90
40) 2,3-Dichloroaniline	7.50	161	2249	2.26 ppm		79
41) Caprolactam	6.57	55	985	1.81 ppm		90
42) Hexachlorobutadiene	6.21	225	1327	2.69 ppm		92
43) 4-Chloro-3-methylphenol	6.87	107	2107	2.35 ppm		77
44) 2-Methylnaphthalene	7.06	141	3894	2.36 ppm		87
45) 1-Methylnaphthalene	7.21	142	3944	2.08 ppm		93
46) Dimethylnaphthalene	8.04	156	3678	2.28 ppm		91
48) Hexachlorocyclopentadiene	7.31	237	2539	4.56 ppm		95
49) 2,4,6-Trichlorophenol	7.51	196	1241	2.13 ppm		90
50) 2,4,5-Trichlorophenol	7.55	196	1324	2.13 ppm		92
52) 2-Chloronaphthalene	7.81	162	4099	2.32 ppm		94
53) Biphenyl	7.80	154	5115	2.24 ppm		91
54) 2-Nitroaniline	7.99	65	1243	2.05 ppm		80
55) Dimethylphthalate	8.34	163	4738	2.31 ppm		91
56) Acenaphthylene	8.45	152	6579	2.18 ppm		95
57) 2,6-Dinitrotoluene	8.41	165	849	1.93 ppm		77
58) 3-Nitroaniline	8.65	138	1124	2.06 ppm		93
59) Acenaphthene	8.73	153	3951	2.18 ppm		93
60) 2,4-Dinitrophenol	8.82	184	423	2.33 ppm		97
61) 4-Nitrophenol	8.96	109	460	1.63 ppm	#	54
62) Dibenzofuran	9.01	168	5521	2.14 ppm		87
63) 2,4-Dinitrotoluene	9.03	165	1111	2.04 ppm		60
64) 2,3,4,6-Tetrachlorophenol	9.22	232	1053	2.14 ppm		87
65) Diethylphthalate	9.48	149	5054	2.26 ppm		97
66) Fluorene	9.56	166	4835	2.35 ppm		97
67) 4-Chlorophenyl-phenylether	9.61	204	2205	2.30 ppm		88
68) 4-Nitroaniline	9.61	138	802	1.55 ppm		77

(#) = qualifier out of range (m) = manual integration
P104447.D MP4600.M Fri Apr 29 09:10:36 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104447.D Vial: 8
Acq On : 28 Apr 2016 8:16 pm Operator: ashleyd
Sample : ic4604-2 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:09:03 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

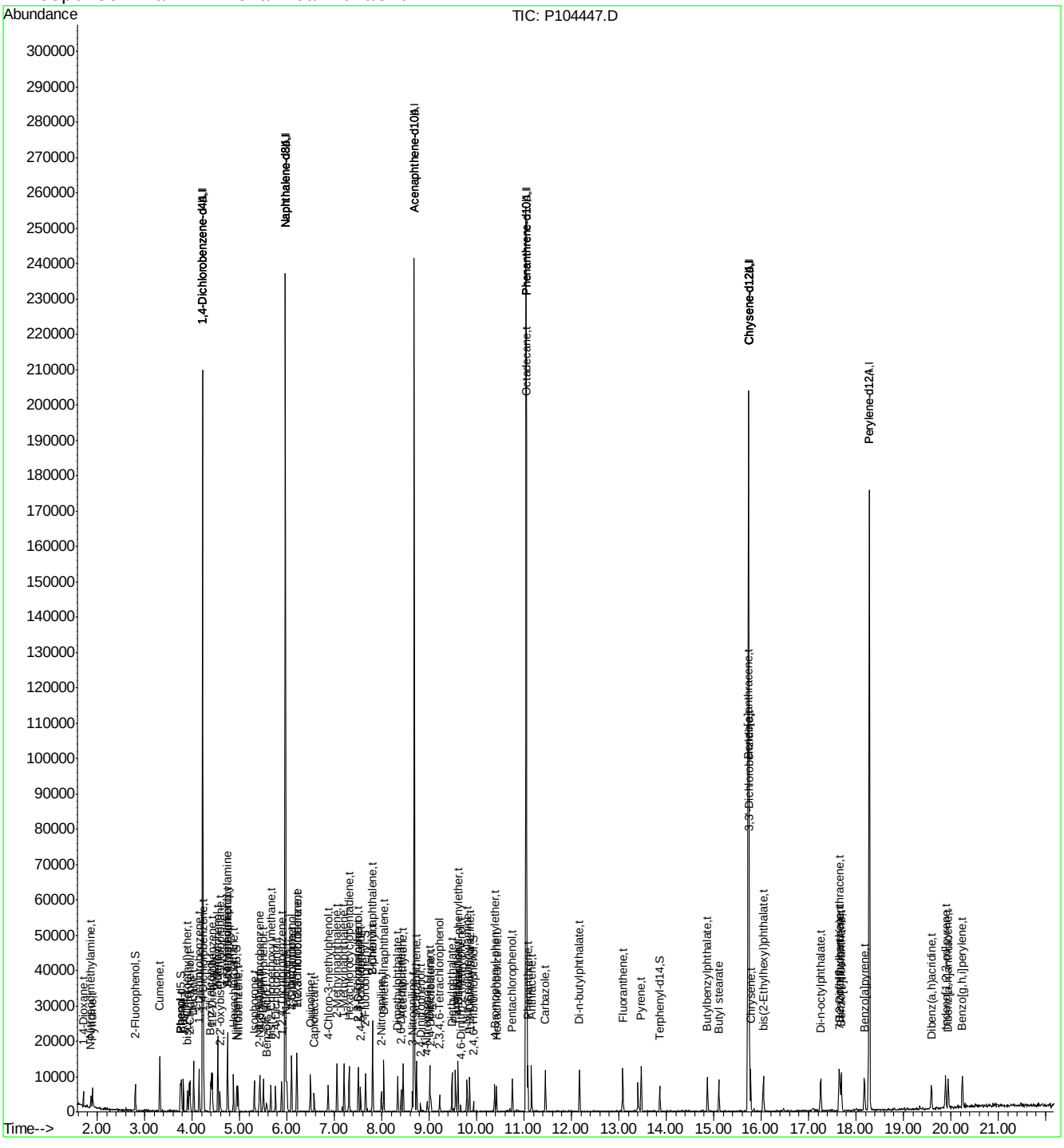
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	9.67	198	335	1.16	ppm	84
71)	n-Nitrosodiphenylamine	9.80	169	3004	2.08	ppm	96
72)	1,2-Diphenylhydrazine	9.85	77	5141	2.20	ppm	96
74)	4-Bromophenyl-phenylether	10.38	248	1196	2.07	ppm	90
75)	Hexachlorobenzene	10.42	284	1391	2.40	ppm	94
76)	Pentachlorophenol	10.75	266	1415	3.88	ppm	90
77)	Phenanthrene	11.08	178	6507	2.34	ppm	96
78)	Anthracene	11.16	178	6367	2.25	ppm	94
79)	Carbazole	11.45	167	5730	2.03	ppm	97
80)	Di-n-butylphthalate	12.17	149	7999	2.04	ppm	96
81)	Fluoranthene	13.09	202	7297	2.18	ppm	95
82)	Octadecane	11.06	57	3330	2.08	ppm	89
84)	Pyrene	13.47	202	8209	2.30	ppm	96
86)	Butylbenzylphthalate	14.87	149	3491	1.95	ppm	97
87)	Butyl stearate	15.11	56	2270	1.76	ppm	87
88)	Benzo[a]anthracene	15.72	228	6751	2.25	ppm	98
89)	3,3'-Dichlorobenzidine	15.75	252	2158	2.08	ppm	99
90)	Chrysene	15.78	228	6172	2.23	ppm	94
91)	bis(2-Ethylhexyl)phthalate	16.04	149	4892	2.03	ppm	88
93)	Di-n-octylphthalate	17.25	149	8104	1.86	ppm	90
94)	Benzo[b]fluoranthene	17.64	252	6424	2.14	ppm	96
95)	Benzo[k]fluoranthene	17.69	252	6589	2.37	ppm	92
96)	Benzo[a]pyrene	18.18	252	5879	2.23	ppm	88
97)	Indeno[1,2,3-cd]pyrene	19.89	276	5039	2.10	ppm	99
98)	Dibenz(a,h)acridine	19.59	279	4406	2.07	ppm	96
99)	Dibenz[a,h]anthracene	19.94	278	5219	2.16	ppm	96
100)	7,12-Dimethylbenz(a)anthra	17.66	256	2434	2.34	ppm	94
101)	Benzo[g,h,i]perylene	20.24	276	5252	2.06	ppm	90

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104447.D Vial: 8
Acq On : 28 Apr 2016 8:16 pm Operator: ashleyd
Sample : ic4604-2 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:10 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104448.D Vial: 9
Acq On : 28 Apr 2016 8:45 pm Operator: ashleyd
Sample : ic4604-1 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:10:44 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	30431	40.00	ppm	-0.02
24) Naphthalene-d8	5.97	136	110338	40.00	ppm	-0.02
47) Acenaphthene-d10	8.68	164	59611	40.00	ppm	-0.02
69) Phenanthrene-d10	11.05	188	104041	40.00	ppm	-0.02
83) Chrysene-d12	15.74	240	100623	40.00	ppm	-0.03
92) Perylene-d12	18.28	264	88930	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.22	152	30431	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	110338	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.68	164	59611	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	104041	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	100623	40.00	ppm	-0.03
155) Perylene-d12A	18.28	264	88930	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	30431	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	104041	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	100623	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	110338	40.00	ppm	-0.02
167) Acenaphthene-d10b	8.68	164	59611	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	110338	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	30431	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	100623	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	100623	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	110338	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	992	0.86	ppm	-0.02
Spiked Amount 50.000			Recovery = 1.72%			
8) Phenol-d5	3.76	99	1351	0.94	ppm	-0.02
Spiked Amount 50.000			Recovery = 1.88%			
25) Nitrobenzene-d5	4.95	82	1290	1.12	ppm	-0.02
Spiked Amount 50.000			Recovery = 2.24%			
51) 2-Fluorobiphenyl	7.66	172	2442	1.23	ppm	-0.03
Spiked Amount 50.000			Recovery = 2.46%			
73) 2,4,6-Tribromophenol	9.95	330	214	0.87	ppm	-0.02
Spiked Amount 50.000			Recovery = 1.74%			
85) Terphenyl-d14	13.87	244	1950	0.98	ppm	-0.03
Spiked Amount 50.000			Recovery = 1.96%			

Target Compounds							Qvalue
2) 1,4-Dioxane	1.71	88	557	0.99	ppm		81
3) Pyridine	1.91	79	864	0.68	ppm		74
4) N-Nitrosodimethylamine	1.87	42	373	0.66	ppm	#	70
6) Indene	4.54	116	1918	1.08	ppm		88
7) Cumene	3.32	105	2879	1.12	ppm		90
9) Phenol	3.78	94	1477	0.99	ppm		70
10) Aniline	3.82	93	1662	1.05	ppm		67
11) bis(2-Chloroethyl)ether	3.90	93	1279	1.16	ppm		83
12) 2-Chlorophenol	3.96	128	1152	1.04	ppm		87
13) Decane	4.04	43	1378	1.01	ppm		87
14) 1,3-Dichlorobenzene	4.15	146	1368	1.17	ppm		89
15) 1,4-Dichlorobenzene	4.25	146	1494	1.31	ppm		85

(#) = qualifier out of range (m) = manual integration
P104448.D MP4600.M Fri Apr 29 09:12:18 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104448.D Vial: 9
Acq On : 28 Apr 2016 8:45 pm Operator: ashleyd
Sample : ic4604-1 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:10:44 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
16) Benzyl alcohol	4.40	108	593	0.87 ppm	#	57
17) 1,2-Dichlorobenzene	4.43	146	1328	1.25 ppm		90
18) Acetophenone	4.75	105	1596	1.10 ppm		94
19) 2-Methylphenol	4.54	108	881	0.96 ppm		91
20) 2,2'-oxybis(1-Chloropropan	4.60	121	255	0.81 ppm	#	50
21) 3&4-Methylphenol	4.75	108	954	0.99 ppm		97
22) n-Nitroso-di-n-propylamine	4.75	70	861	1.08 ppm	#	84
23) Hexachloroethane	4.88	201	558	1.41 ppm		87
26) Nitrobenzene	4.97	77	1373	1.17 ppm		77
27) Quinoline	6.49	129	2142	1.07 ppm		93
28) Isophorone	5.31	82	2203	1.09 ppm		89
29) 2-Nitrophenol	5.42	139	508	0.94 ppm	#	35
30) 2,4-Dimethylphenol	5.51	107	988	1.12 ppm		88
32) bis(2-Chloroethoxy)methane	5.66	93	1264	0.97 ppm		90
33) 2,4-Dichlorophenol	5.76	162	721	0.88 ppm		78
34) 2,6-Dichlorophenol	6.10	162	845	1.07 ppm		86
35) 1,3,5-Trichlorobenzene	5.43	180	1123	1.20 ppm		86
36) 1,2,4-Trichlorobenzene	5.89	180	1078	1.16 ppm		82
37) 1,2,3-Trichlorobenzene	6.22	180	999	1.18 ppm		81
38) Naphthalene	6.00	128	3352	1.15 ppm		94
39) 4-Chloroaniline	6.10	127	1355	1.16 ppm		93
40) 2,3-Dichloroaniline	7.50	161	1085	1.13 ppm		83
41) Caprolactam	6.57	55	485	0.92 ppm	#	47
42) Hexachlorobutadiene	6.21	225	560	1.17 ppm		73
43) 4-Chloro-3-methylphenol	6.86	107	800	0.92 ppm		73
44) 2-Methylnaphthalene	7.06	141	1978	1.24 ppm		88
45) 1-Methylnaphthalene	7.21	142	2119	1.15 ppm		91
46) Dimethylnaphthalene	8.04	156	1794	1.15 ppm		99
48) Hexachlorocyclopentadiene	7.31	237	1085	2.01 ppm		85
49) 2,4,6-Trichlorophenol	7.51	196	586	1.03 ppm		78
50) 2,4,5-Trichlorophenol	7.55	196	635	1.05 ppm		87
52) 2-Chloronaphthalene	7.81	162	1961	1.14 ppm		93
53) Biphenyl	7.80	154	2542	1.14 ppm		94
54) 2-Nitroaniline	8.00	65	701	1.19 ppm	#	76
55) Dimethylphthalate	8.34	163	2473	1.24 ppm		88
56) Acenaphthylene	8.45	152	3187	1.08 ppm		90
57) 2,6-Dinitrotoluene	8.41	165	386	0.90 ppm		65
58) 3-Nitroaniline	8.65	138	343	0.65 ppm		84
59) Acenaphthene	8.73	153	2146	1.22 ppm		95
62) Dibenzofuran	9.01	168	2990	1.20 ppm		91
63) 2,4-Dinitrotoluene	9.03	165	523	0.99 ppm		70
64) 2,3,4,6-Tetrachlorophenol	9.22	232	436	0.91 ppm	#	77
65) Diethylphthalate	9.48	149	2297	1.06 ppm		89
66) Fluorene	9.56	166	2359	1.18 ppm		88
67) 4-Chlorophenyl-phenylether	9.60	204	1102	1.19 ppm		93
68) 4-Nitroaniline	9.61	138	276	0.55 ppm	#	71
70) 4,6-Dinitro-2-methylphenol	9.67	198	147	0.52 ppm	#	34
71) n-Nitrosodiphenylamine	9.80	169	1509	1.08 ppm		96
72) 1,2-Diphenylhydrazine	9.85	77	2421	1.07 ppm		92

(#) = qualifier out of range (m) = manual integration
P104448.D MP4600.M Fri Apr 29 09:12:18 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104448.D Vial: 9
Acq On : 28 Apr 2016 8:45 pm Operator: ashleyd
Sample : ic4604-1 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:10:44 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
74)	4-Bromophenyl-phenylether	10.38	248	624	1.11 ppm	81
75)	Hexachlorobenzene	10.42	284	657	1.17 ppm	72
76)	Pentachlorophenol	10.75	266	596	1.69 ppm	89
77)	Phenanthrene	11.08	178	3195	1.18 ppm	100
78)	Anthracene	11.16	178	3094	1.13 ppm	95
79)	Carbazole	11.45	167	2914	1.07 ppm	87
80)	Di-n-butylphthalate	12.17	149	3905	1.03 ppm	97
81)	Fluoranthene	13.09	202	3568	1.10 ppm	89
82)	Octadecane	11.05	57	1778	1.14 ppm	85
84)	Pyrene	13.47	202	3899	1.10 ppm	96
86)	Butylbenzylphthalate	14.87	149	1693	0.96 ppm	92
87)	Butyl stearate	15.11	56	1035	0.81 ppm	73
88)	Benzo[a]anthracene	15.72	228	3606	1.21 ppm	92
89)	3,3'-Dichlorobenzidine	15.75	252	1105	1.08 ppm	83
90)	Chrysene	15.78	228	3363	1.23 ppm	97
91)	bis(2-Ethylhexyl)phthalate	16.04	149	2346	0.98 ppm	97
93)	Di-n-octylphthalate	17.25	149	3824	0.90 ppm	94
94)	Benzo[b]fluoranthene	17.64	252	3163	1.09 ppm	90
95)	Benzo[k]fluoranthene	17.69	252	3093	1.15 ppm	91
96)	Benzo[a]pyrene	18.17	252	2507	0.98 ppm	95
97)	Indeno[1,2,3-cd]pyrene	19.89	276	2281	0.98 ppm	56
98)	Dibenz(a,h)acridine	19.59	279	2180	1.05 ppm	82
99)	Dibenz[a,h]anthracene	19.95	278	2276	0.97 ppm	88
100)	7,12-Dimethylbenz(a)anthra	17.66	256	1220	1.21 ppm	75
101)	Benzo[g,h,i]perylene	20.25	276	2676	1.08 ppm	87

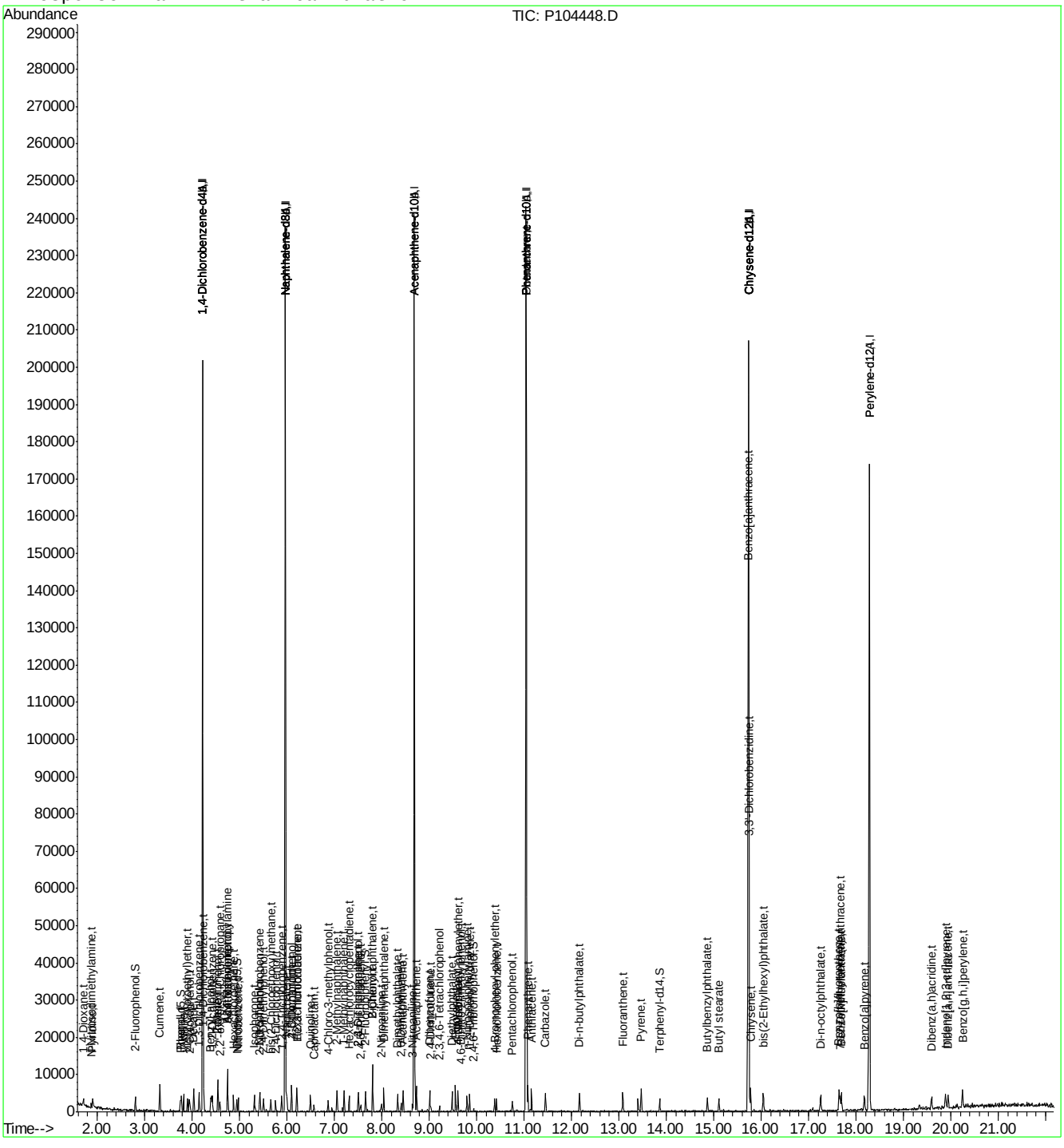
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104448.D Vial: 9
Acq On : 28 Apr 2016 8:45 pm Operator: ashleyd
Sample : ic4604-1 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:12 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 08:56:06 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/29/16 13:31

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104449.D Vial: 10
Acq On : 28 Apr 2016 9:14 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:32:12 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	36430	40.00	ppm	0.00
24) Naphthalene-d8	5.97	136	120539	40.00	ppm	0.00
47) Acenaphthene-d10	8.68	164	64616	40.00	ppm	0.00
69) Phenanthrene-d10	11.05	188	111212	40.00	ppm	0.00
83) Chrysene-d12	15.74	240	95462	40.00	ppm	0.00
92) Perylene-d12	18.28	264	79476	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.22	152	36430	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	120539	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.68	164	64616	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	111212	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	95462	40.00	ppm	-0.03
155) Perylene-d12A	18.28	264	79476	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	36430	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	111212	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	95462	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	120539	40.00	ppm	-0.01
167) Acenaphthene-d10b	8.68	164	64616	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	120539	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	36430	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	95410	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	95410	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	120539	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	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
4) N-Nitrosodimethylamine	1.87	42	31037	49.60	ppm	99
11) bis(2-Chloroethyl)ether	3.90	93	59132	47.82	ppm	98
14) 1,3-Dichlorobenzene	4.15	146	64667	45.99	ppm	100
15) 1,4-Dichlorobenzene	4.25	146	61533	44.12	ppm	98
17) 1,2-Dichlorobenzene	4.43	146	59698	45.50	ppm	97
20) 2,2'-oxybis(1-Chloropropan	4.58	121	15578m	44.02	ppm	
22) n-Nitroso-di-n-propylamine	4.76	70	39786	43.33	ppm	96
23) Hexachloroethane	4.88	201	24574	45.32	ppm	93
26) Nitrobenzene	4.97	77	60184	45.67	ppm	99
28) Isophorone	5.31	82	111182	49.90	ppm	97
32) bis(2-Chloroethoxy)methane	5.66	93	63640	46.88	ppm	98
36) 1,2,4-Trichlorobenzene	5.89	180	49694	47.52	ppm	99

(#) = qualifier out of range (m) = manual integration
P104449.D MP4600.M Fri Apr 29 09:36:36 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104449.D Vial: 10
Acq On : 28 Apr 2016 9:14 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:32:12 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Naphthalene	6.00	128	149121	45.78	ppm	99
42)	Hexachlorobutadiene	6.21	225	32006	50.49	ppm	93
48)	Hexachlorocyclopentadiene	7.32	237	30760	45.73	ppm	97
52)	2-Chloronaphthalene	7.81	162	90829	48.11	ppm	93
55)	Dimethylphthalate	8.35	163	102821	45.20	ppm	98
56)	Acenaphthylene	8.46	152	139227	43.52	ppm	99
57)	2,6-Dinitrotoluene	8.42	165	21513	46.19	ppm	97
59)	Acenaphthene	8.74	153	89278	44.51	ppm	98
63)	2,4-Dinitrotoluene	9.04	165	27152	43.39	ppm	100
65)	Diethylphthalate	9.49	149	109772	44.80	ppm	98
66)	Fluorene	9.56	166	98181	43.30	ppm	99
67)	4-Chlorophenyl-phenylether	9.61	204	45423	42.94	ppm	98
71)	n-Nitrosodiphenylamine	9.81	169	65358	45.36	ppm	97
72)	1,2-Diphenylhydrazine	9.86	77	106789	44.55	ppm	99
74)	4-Bromophenyl-phenylether	10.38	248	28187	47.23	ppm	93
75)	Hexachlorobenzene	10.42	284	27559	43.34	ppm	94
77)	Phenanthrene	11.09	178	130996	44.14	ppm	99
78)	Anthracene	11.17	178	130351	43.00	ppm	99
80)	Di-n-butylphthalate	12.17	149	181176	44.88	ppm	99
81)	Fluoranthene	13.09	202	154528	43.27	ppm	98
84)	Pyrene	13.48	202	156363	45.94	ppm	96
86)	Butylbenzylphthalate	14.87	149	79079	47.15	ppm	97
88)	Benzo[a]anthracene	15.73	228	129013	44.55	ppm	97
90)	Chrysene	15.79	228	113615	42.12	ppm	100
91)	bis(2-Ethylhexyl)phthalate	16.05	149	105612	47.13	ppm	100
93)	Di-n-octylphthalate	17.26	149	183981	50.22	ppm	98
94)	Benzo[b]fluoranthene	17.66	252	118906	44.70	ppm	98
95)	Benzo[k]fluoranthene	17.71	252	115593	46.29	ppm	98
96)	Benzo[a]pyrene	18.19	252	113257	48.35	ppm	97
97)	Indeno[1,2,3-cd]pyrene	19.90	276	101878	48.11	ppm	99
99)	Dibenz[a,h]anthracene	19.96	278	98920	46.72	ppm	97
101)	Benzo[g,h,i]perylene	20.27	276	104089	45.84	ppm	97

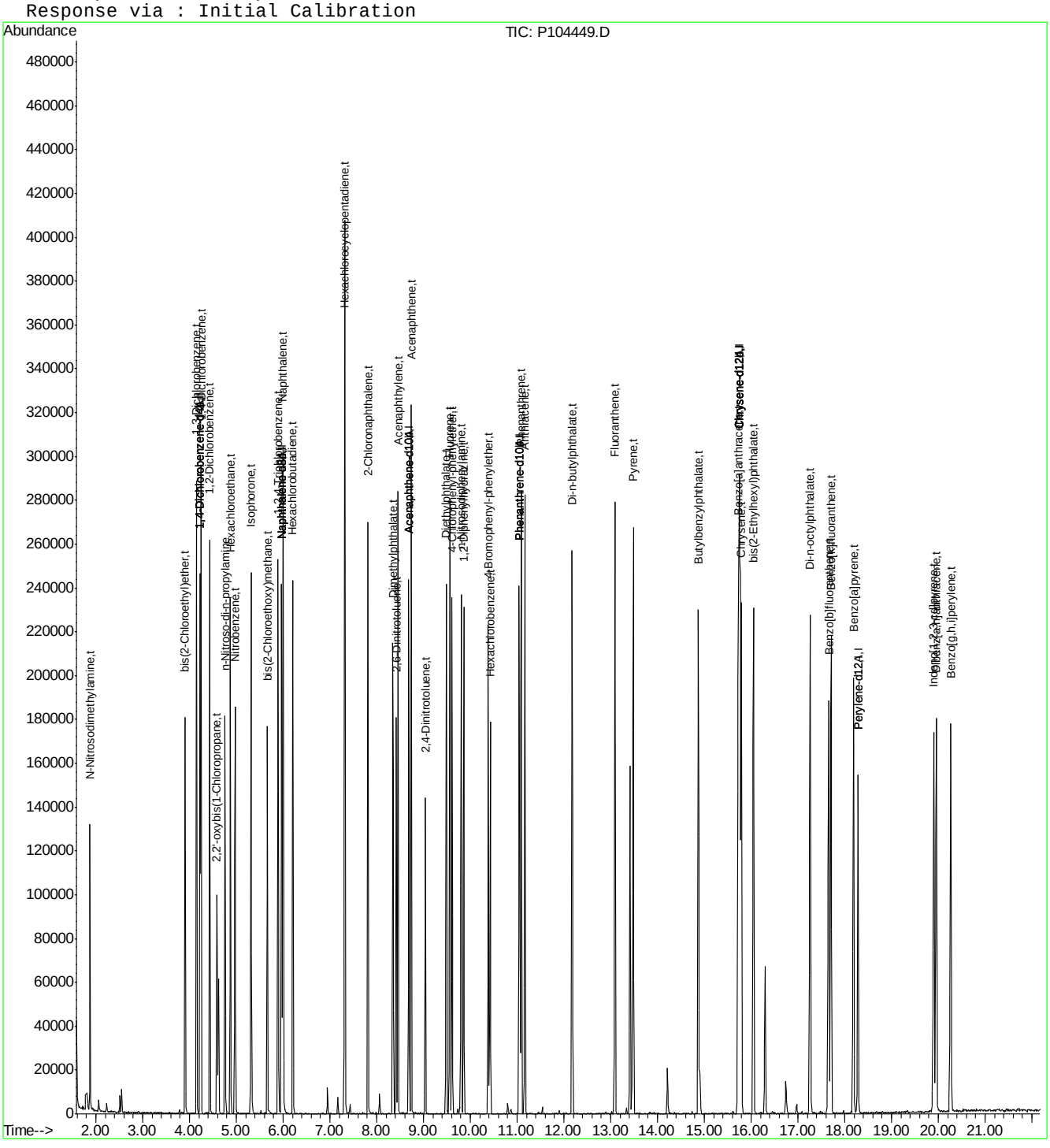
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104449.D Vial: 10
Acq On : 28 Apr 2016 9:14 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:36 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Manual Integration Approval Summary

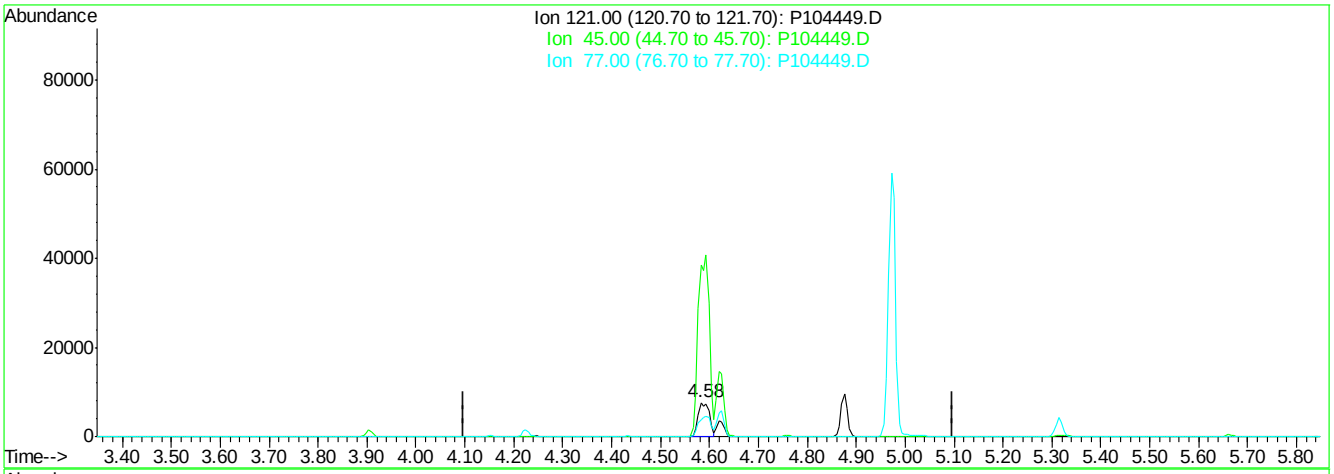
Sample Number:	EP4604-ICV4604	**Method:**	SW846 8270D
Lab FileID:	P104449.D	**Analyst approved:**	04/29/16 10:03 Kristi Schollenberger
Injection Time:	04/28/16 21:14	**Supervisor approved:**	04/29/16 13:31 Nina Pandya

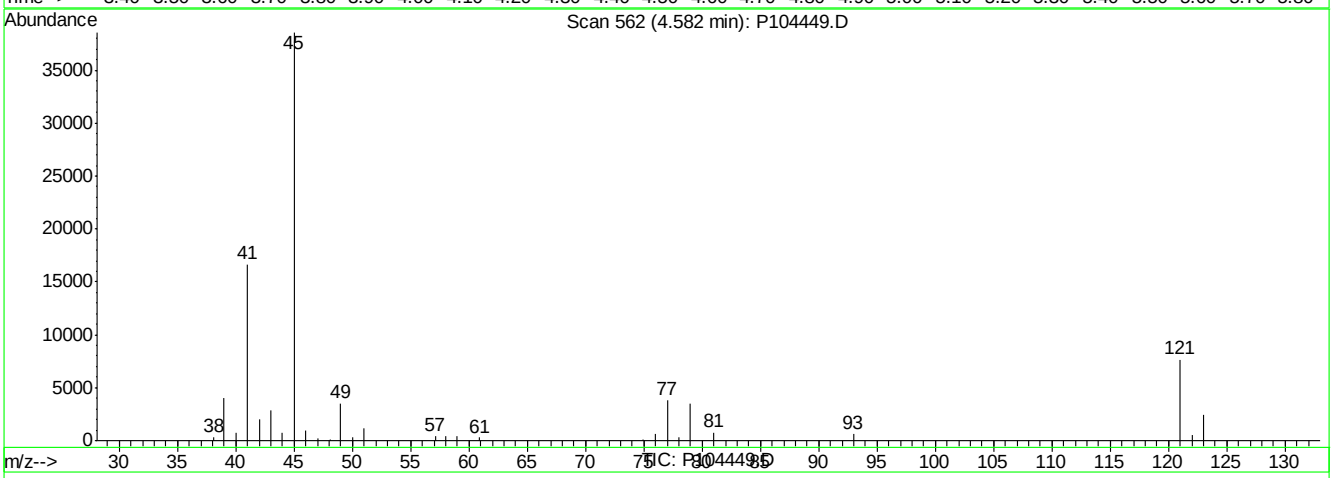
Parameter	CAS	Sig#	R.T. (min.)	Reason
bis(2-Chloroisopropyl)ether	108-60-1		4.58	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104449.D Vial: 10
Acq On : 28 Apr 2016 9:14 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:32 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Multiple Level Calibration





(20) 2,2'-oxybis(1-Chloropropane (t)

4.58min 34.15ppm

response 12084

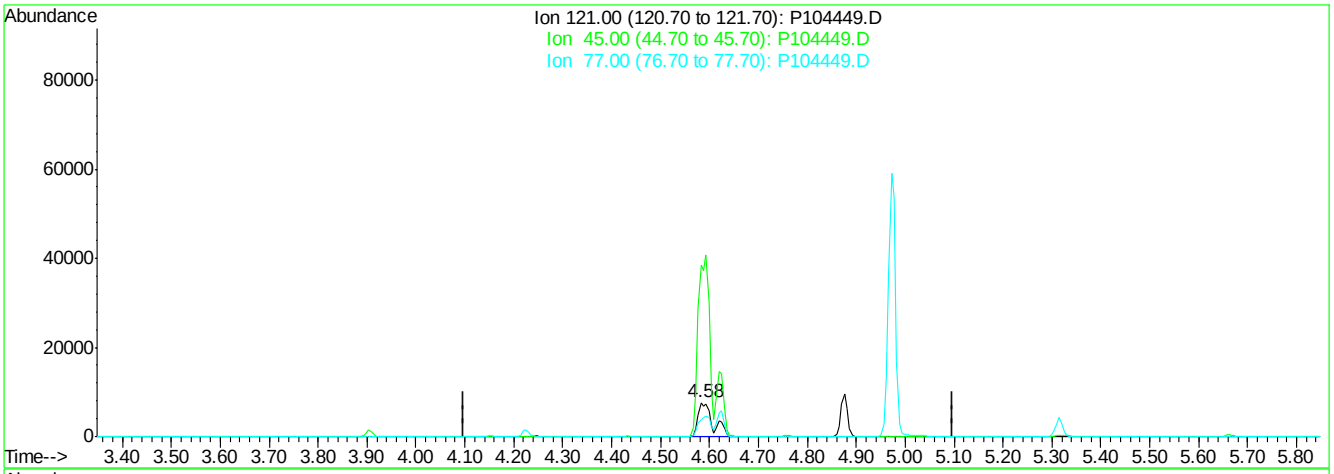
Ion	Exp%	Act%
121.00	100	100
45.00	533.90	507.71
77.00	61.80	42.17
0.00	0.00	0.00

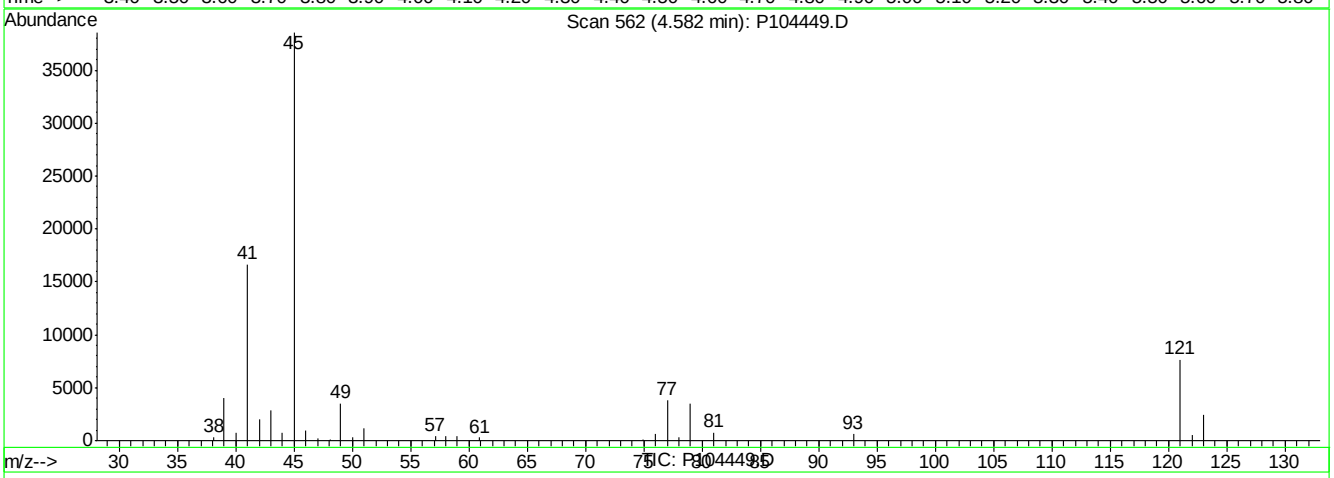
P104449.D MP4600.M Fri Apr 29 09:33:59 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104449.D Vial: 10
Acq On : 28 Apr 2016 9:14 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:34 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Multiple Level Calibration





(20) 2,2'-oxybis(1-Chloropropane (t)

4.58min 44.02ppm m

response 15578

Ion	Exp%	Act%
121.00	100	100
45.00	533.90	503.88#
77.00	61.80	50.19
0.00	0.00	0.00

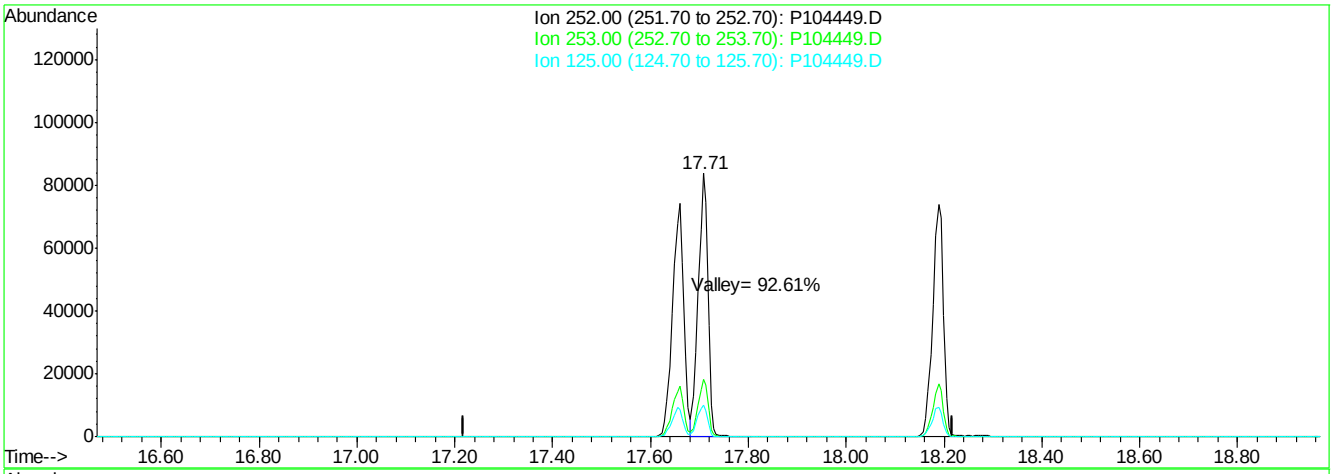
P104449.D MP4600.M Fri Apr 29 09:34:22 2016

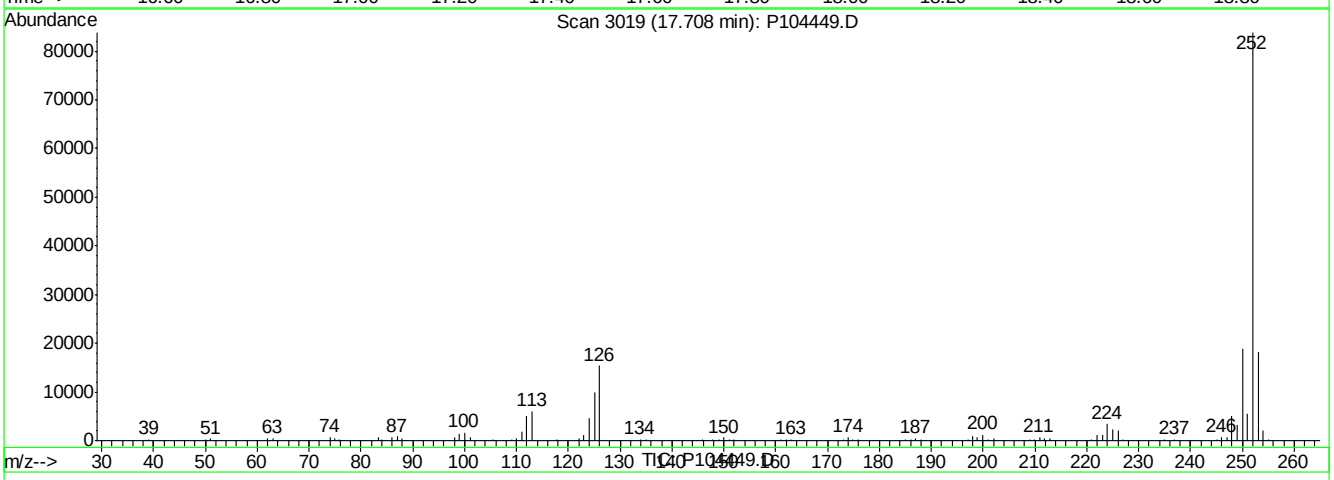
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104449.D Vial: 10
Acq On : 28 Apr 2016 9:14 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:35 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Multiple Level Calibration





(95) Benzo[k]fluoranthene (t)

17.71min 46.29ppm

response 115593

Ion	Exp%	Act%
252.00	100	100
253.00	20.80	21.77
125.00	10.80	11.63
0.00	0.00	0.00

P104449.D MP4600.M Fri Apr 29 09:36:01 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104450.D Vial: 11
Acq On : 28 Apr 2016 9:43 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:41:03 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	33432	40.00	ppm	0.00
24) Naphthalene-d8	5.97	136	119783	40.00	ppm	0.00
47) Acenaphthene-d10	8.69	164	63557	40.00	ppm	0.00
69) Phenanthrene-d10	11.05	188	108066	40.00	ppm	0.00
83) Chrysene-d12	15.74	240	102602	40.00	ppm	-0.01
92) Perylene-d12	18.29	264	84541	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.22	152	33432	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	119783	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.69	164	63557	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	108066	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	102602	40.00	ppm	-0.03
155) Perylene-d12A	18.29	264	84541	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	33432	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	108066	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	102602	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	119783	40.00	ppm	-0.02
167) Acenaphthene-d10b	8.69	164	63557	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	119783	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	33432	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	102602	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	102602	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	119783	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	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
2) 1,4-Dioxane	1.72	88	21802	44.68	ppm		96
6) Indene	4.54	116	93961	49.81	ppm		96
7) Cumene	3.32	105	135566	46.60	ppm		99
13) Decane	4.04	43	67141	47.90	ppm		98
18) Acetophenone	4.75	105	75139	46.68	ppm		89
26) Nitrobenzene	4.75	77	64782	49.47	ppm	#	43
27) Quinoline	6.50	129	97943	44.97	ppm		99
40) 2,3-Dichloroaniline	7.50	161	44033	40.48	ppm		99
41) Caprolactam	6.61	55	24308	43.14	ppm		97
45) 1-Methylnaphthalene	7.21	142	90969	45.45	ppm		99
46) Dimethylnaphthalene	8.05	156	78933	44.60	ppm		100
53) Biphenyl	7.81	154	112400	46.78	ppm		98

(#) = qualifier out of range (m) = manual integration
P104450.D MP4600.M Fri Apr 29 10:06:05 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104450.D Vial: 11
Acq On : 28 Apr 2016 9:43 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:41:03 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	11.06	57	74232	46.81	ppm	99
100)	7,12-Dimethylbenz(a)anthra	17.67	256	58141	51.09	ppm	91

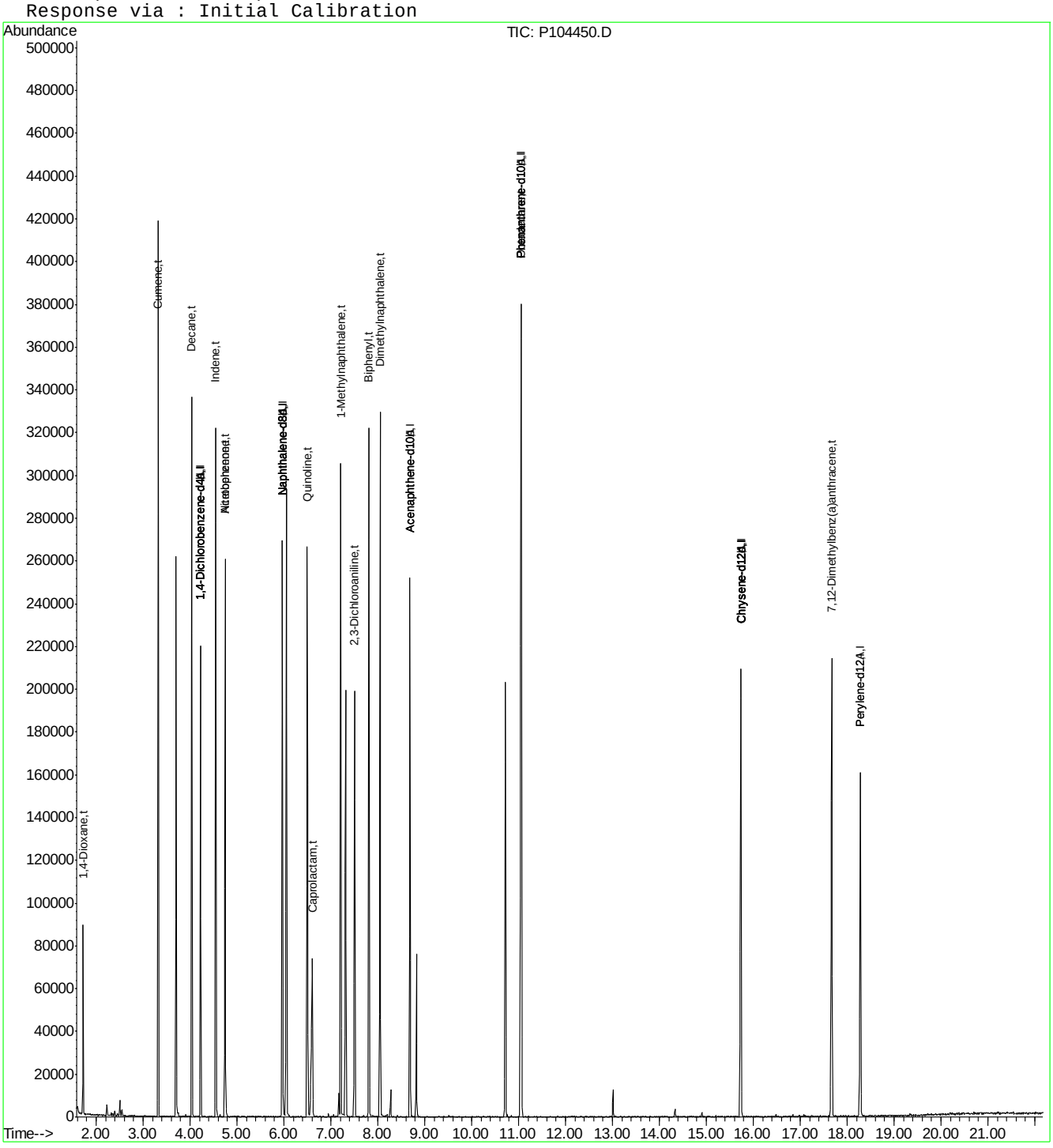
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104450.D Vial: 11
Acq On : 28 Apr 2016 9:43 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:42 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104451.D Vial: 12
Acq On : 28 Apr 2016 10:12 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 10:17:59 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 10:17:45 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.23	152	31969	40.00	ppm	0.00
24) Naphthalene-d8	5.97	136	121967	40.00	ppm	0.00
47) Acenaphthene-d10	8.68	164	64575	40.00	ppm	0.00
69) Phenanthrene-d10	11.05	188	117614	40.00	ppm	0.00
83) Chrysene-d12	15.74	240	109767	40.00	ppm	-0.01
92) Perylene-d12	18.28	264	78579	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.23	152	31969	40.00	ppm	-0.01
112) Naphthalene-d8A	5.97	136	121967	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.68	164	64575	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	117614	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	109767	40.00	ppm	-0.03
155) Perylene-d12A	18.28	264	78579	40.00	ppm	-0.04
159) 1,4-Dichlorobenzene-d4b	4.23	152	31969	40.00	ppm	-0.01
161) Phenanthrene-d10b	11.05	188	117614	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	109767	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	121967	40.00	ppm	-0.02
167) Acenaphthene-d10b	8.68	164	64575	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	121967	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.23	152	31969	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	109767	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	109767	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	121967	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	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
3) Pyridine	1.99	79	57754	53.87	ppm	97
10) Aniline	3.83	93	86647	51.99	ppm	99
16) Benzyl alcohol	4.41	108	34586	51.53	ppm	98
39) 4-Chloroaniline	6.10	127	57398	42.25	ppm	100
44) 2-Methylnaphthalene	7.06	141	79079	43.31	ppm	97
54) 2-Nitroaniline	8.00	65	32816	48.86	ppm	97
58) 3-Nitroaniline	8.66	138	26096	48.04	ppm	99
62) Dibenzofuran	9.02	168	131973	47.20	ppm	98
68) 4-Nitroaniline	9.63	138	23826	44.92	ppm	98
79) Carbazole	11.46	167	140479	46.11	ppm	99

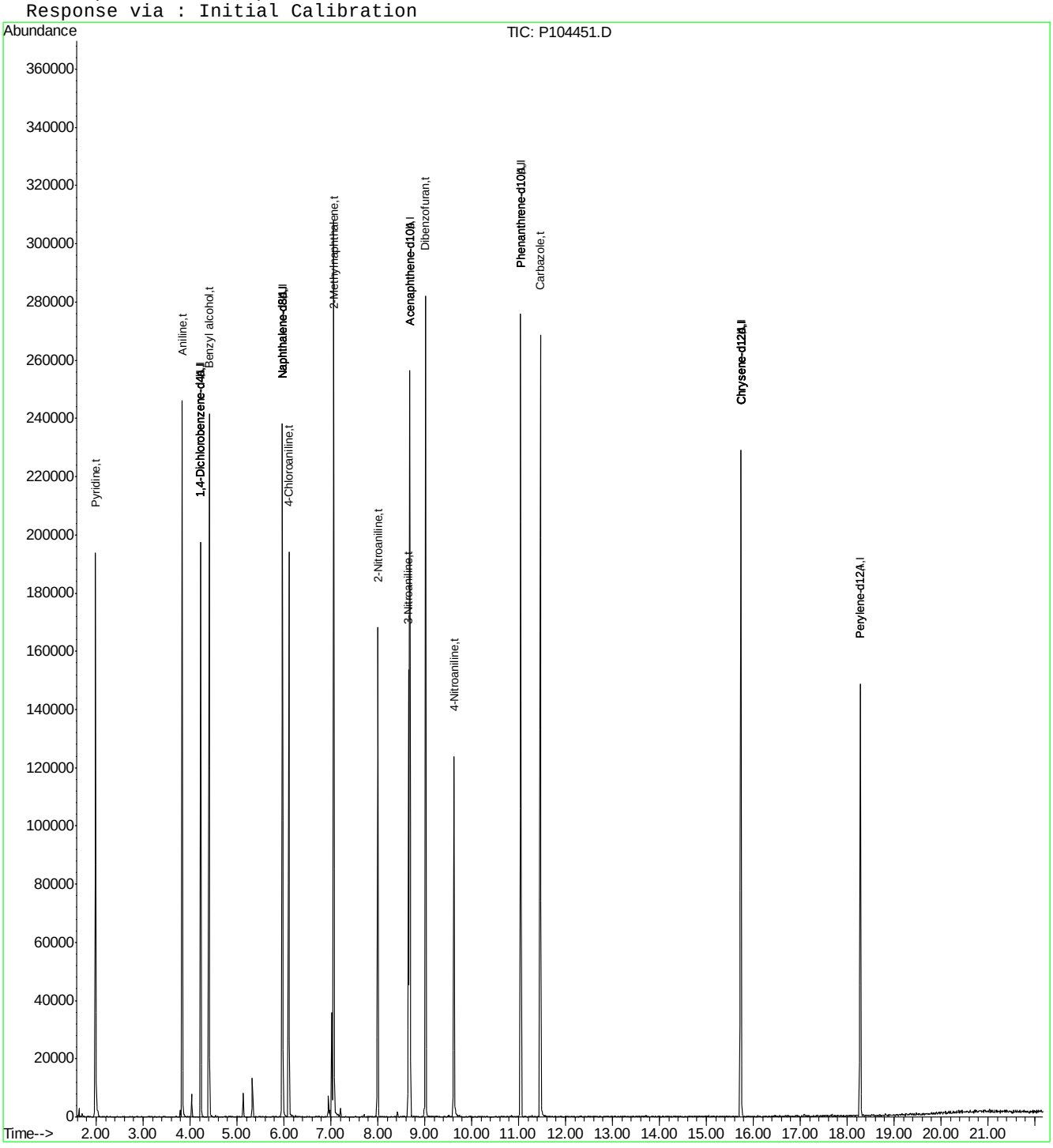
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104451.D Vial: 12
Acq On : 28 Apr 2016 10:12 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 10:19 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 10:17:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104452.D Vial: 13
Acq On : 28 Apr 2016 10:40 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:43:29 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	34700	40.00	ppm	0.00
24) Naphthalene-d8	5.97	136	116279	40.00	ppm	0.00
47) Acenaphthene-d10	8.68	164	64371	40.00	ppm	0.00
69) Phenanthrene-d10	11.05	188	109938	40.00	ppm	0.00
83) Chrysene-d12	15.74	240	101207	40.00	ppm	-0.01
92) Perylene-d12	18.28	264	87068	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.22	152	34700	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	116279	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.68	164	64371	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	109938	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	101207	40.00	ppm	-0.03
155) Perylene-d12A	18.28	264	87068	40.00	ppm	-0.04
159) 1,4-Dichlorobenzene-d4b	4.22	152	34700	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	109938	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	101207	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	116279	40.00	ppm	-0.02
167) Acenaphthene-d10b	8.68	164	64371	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	116279	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	34700	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	101207	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	101207	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	116279	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	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
9) Phenol	3.78	94	71697	45.13	ppm	96
12) 2-Chlorophenol	3.96	128	55752	46.15	ppm	96
19) 2-Methylphenol	4.54	108	48596	47.70	ppm	95
21) 3&4-Methylphenol	4.75	108	50057	45.82	ppm	97
29) 2-Nitrophenol	5.42	139	27226	49.61	ppm	96
30) 2,4-Dimethylphenol	5.51	107	55285	50.83	ppm	98
31) Benzoic acid	5.69	105	39979	47.17	ppm	90
33) 2,4-Dichlorophenol	5.76	162	41757	48.72	ppm	98
34) 2,6-Dichlorophenol	6.10	162	40104	48.08	ppm	98
43) 4-Chloro-3-methylphenol	6.87	107	45466	46.75	ppm	98
49) 2,4,6-Trichlorophenol	7.51	196	30924	48.85	ppm	99
50) 2,4,5-Trichlorophenol	7.55	196	30542	44.01	ppm	96

(#) = qualifier out of range (m) = manual integration
P104452.D MP4600.M Fri Apr 29 09:44:53 2016

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104452.D Vial: 13
Acq On : 28 Apr 2016 10:40 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:43:29 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
60)	2,4-Dinitrophenol	8.82	184	10816	41.84	ppm	94
61)	4-Nitrophenol	8.96	109	18168	46.76	ppm	93
64)	2,3,4,6-Tetrachlorophenol	9.22	232	25784	46.81	ppm	95
70)	4,6-Dinitro-2-methylphenol	9.67	198	16800	46.92	ppm	97
76)	Pentachlorophenol	10.76	266	20334	52.11	ppm	99

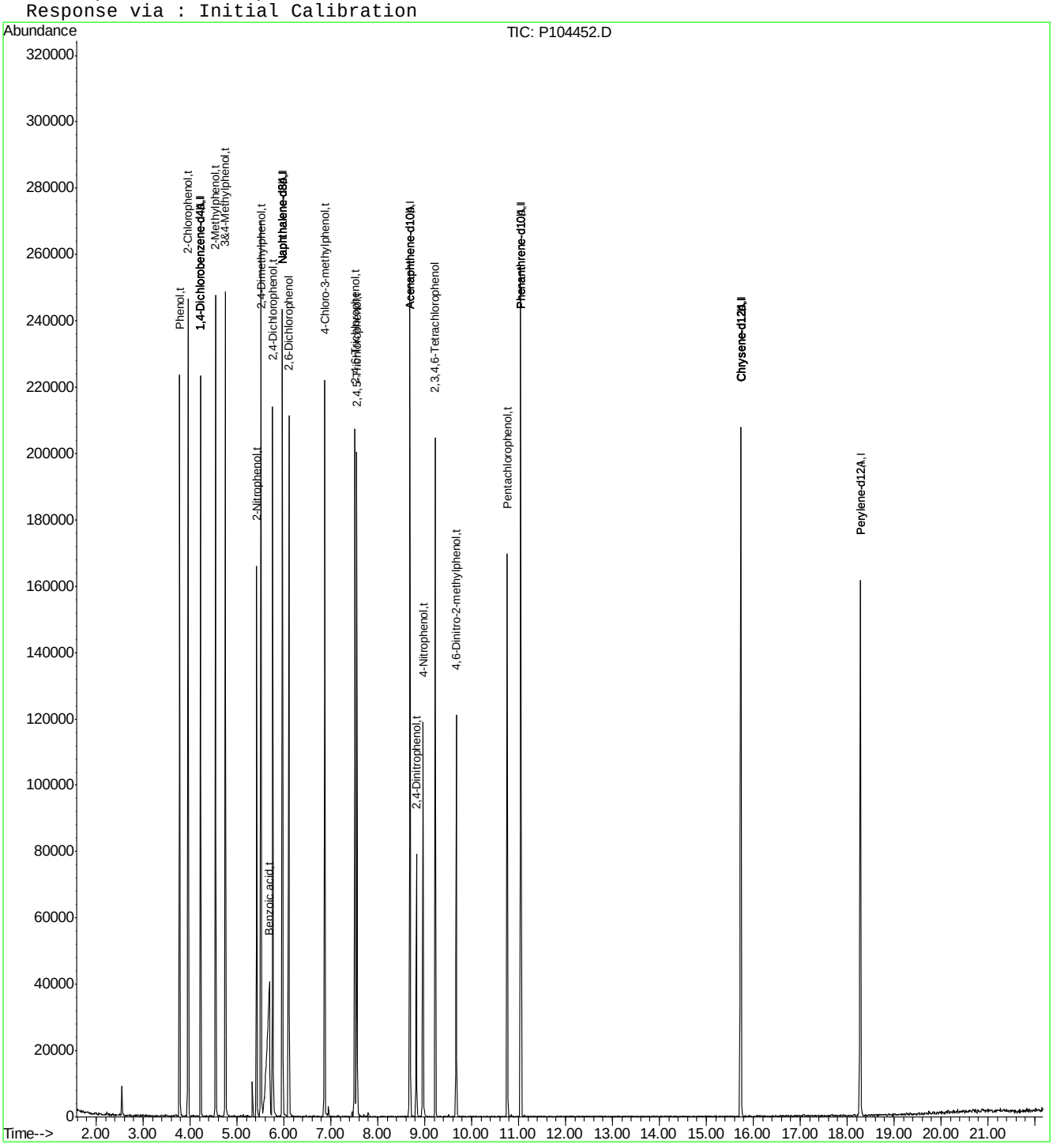
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104452.D Vial: 13
Acq On : 28 Apr 2016 10:40 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:44 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104453.D Vial: 14
Acq On : 28 Apr 2016 11:09 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:45:04 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	29572	40.00	ppm	0.00
24) Naphthalene-d8	5.97	136	107247	40.00	ppm	0.00
47) Acenaphthene-d10	8.68	164	58669	40.00	ppm	0.00
69) Phenanthrene-d10	11.05	188	102463	40.00	ppm	0.00
83) Chrysene-d12	15.74	240	100887	40.00	ppm	-0.01
92) Perylene-d12	18.28	264	88043	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.22	152	29572	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	107247	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.68	164	58669	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	102463	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	100887	40.00	ppm	-0.03
155) Perylene-d12A	18.28	264	88043	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	29572	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	102463	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	100887	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	107247	40.00	ppm	-0.02
167) Acenaphthene-d10b	8.68	164	58669	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	107247	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	29572	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	100887	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	100887	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	107247	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	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%			

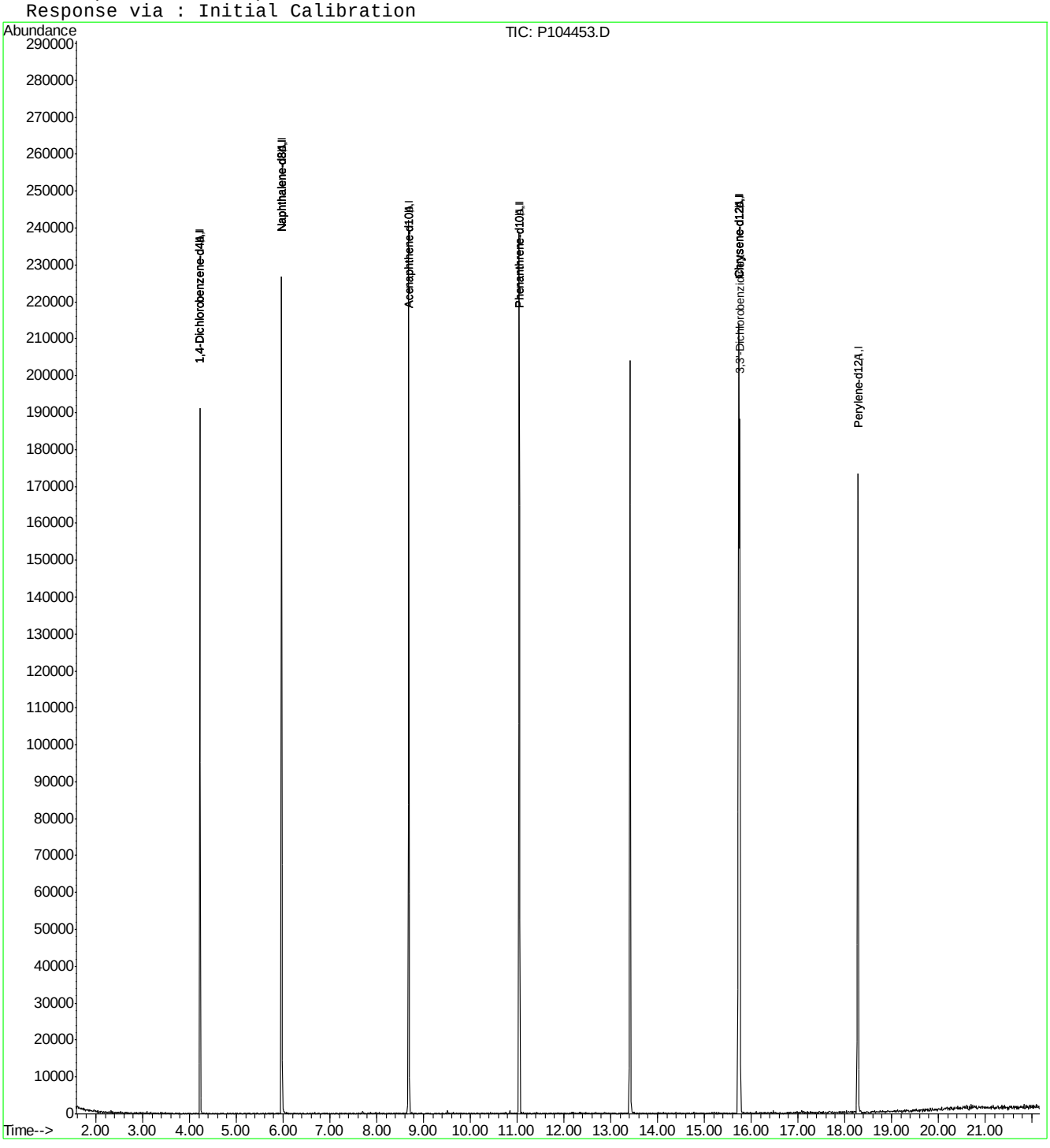
Target Compounds						Qvalue
89) 3,3'-Dichlorobenzidine	15.76	252	49822	45.97	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
P104453.D MP4600.M Fri Apr 29 09:45:38 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104453.D Vial: 14
Acq On : 28 Apr 2016 11:09 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:45 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104454.D Vial: 15
Acq On : 28 Apr 2016 11:38 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 09:45:47 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.22	152	37901	40.00	ppm	0.00
24) Naphthalene-d8	5.97	136	135237	40.00	ppm	0.00
47) Acenaphthene-d10	8.69	164	71208	40.00	ppm	0.00
69) Phenanthrene-d10	11.05	188	124894	40.00	ppm	0.00
83) Chrysene-d12	15.74	240	111635	40.00	ppm	-0.01
92) Perylene-d12	18.29	264	96257	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.22	152	37901	40.00	ppm	-0.02
112) Naphthalene-d8A	5.97	136	135237	40.00	ppm	-0.02
121) Acenaphthene-d10A	8.69	164	71208	40.00	ppm	-0.02
132) Phenanthrene-d10A	11.05	188	124894	40.00	ppm	-0.02
147) Chrysene-d12A	15.74	240	111635	40.00	ppm	-0.03
155) Perylene-d12A	18.29	264	96257	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.22	152	37901	40.00	ppm	-0.02
161) Phenanthrene-d10b	11.05	188	124894	40.00	ppm	-0.02
163) Chrysene-d12b	15.74	240	111635	40.00	ppm	-0.02
165) Naphthalene-d8b	5.97	136	135237	40.00	ppm	-0.02
167) Acenaphthene-d10b	8.69	164	71208	40.00	ppm	-0.02
169) Naphthalene-d8c	5.97	136	135237	40.00	ppm	-0.02
174) 1,4-Dichlorobenzene-d4a	4.22	152	37901	40.00	ppm	0.06
176) Chrysene-d12c	15.74	240	111635	40.00	ppm	-0.03
178) Chrysene-d12d	15.74	240	111635	40.00	ppm	-0.03
180) Naphthalene-d8d	5.97	136	135237	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	2.81	112	56945	43.49	ppm	0.00
Spiked Amount 50.000			Recovery = 86.98%			
8) Phenol-d5	3.76	99	69552	40.47	ppm	0.00
Spiked Amount 50.000			Recovery = 80.94%			
25) Nitrobenzene-d5	4.95	82	65661	44.53	ppm	0.00
Spiked Amount 50.000			Recovery = 89.06%			
51) 2-Fluorobiphenyl	7.66	172	108112	44.10	ppm	0.00
Spiked Amount 50.000			Recovery = 88.20%			
73) 2,4,6-Tribromophenol	9.94	330	13916	40.57	ppm	0.00
Spiked Amount 50.000			Recovery = 81.14%			
85) Terphenyl-d14	13.87	244	97610	43.75	ppm	0.00
Spiked Amount 50.000			Recovery = 87.50%			

Target Compounds Qvalue

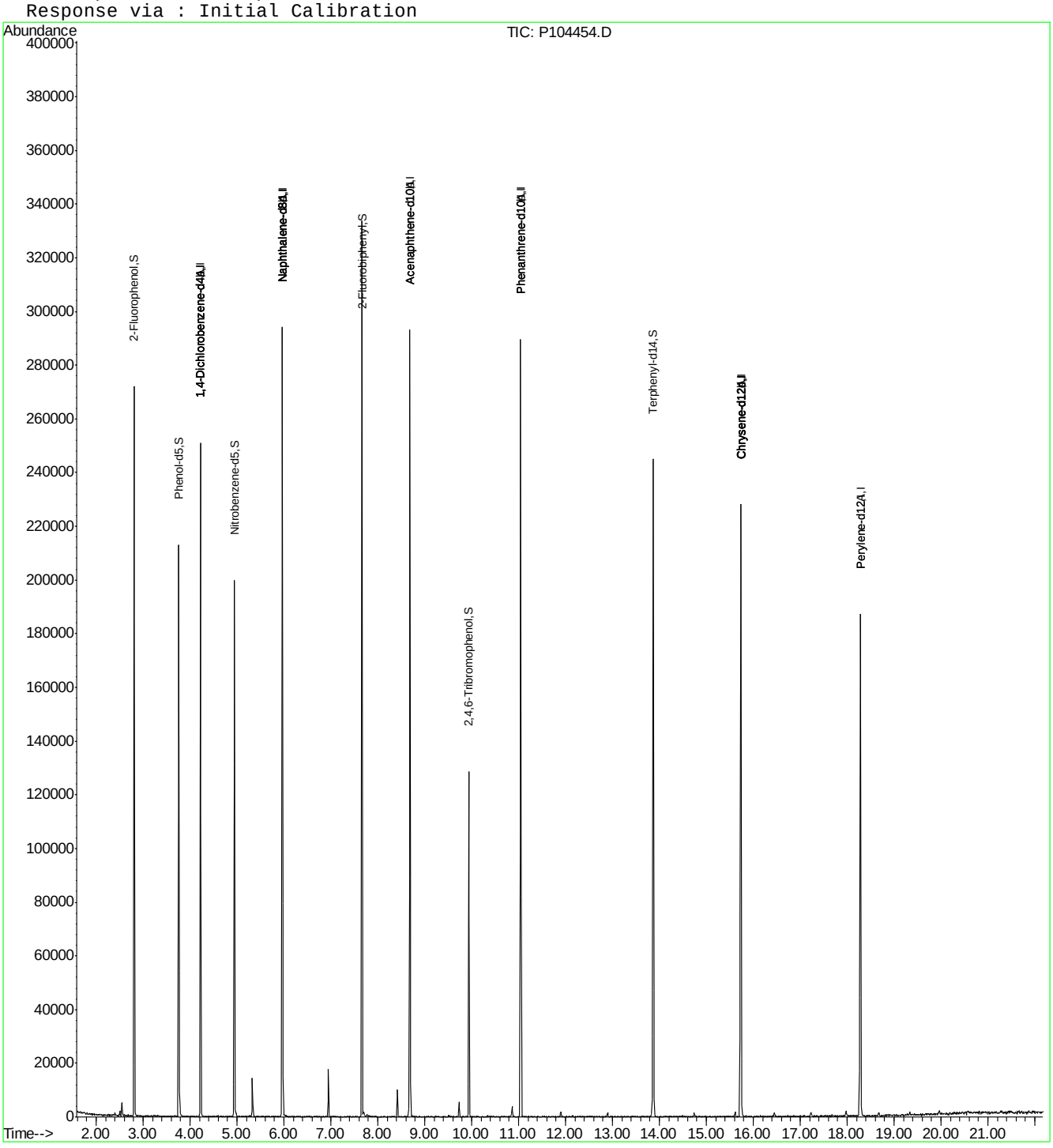
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4604\P104454.D Vial: 15
Acq On : 28 Apr 2016 11:38 pm Operator: ashleyd
Sample : icv4604-50 Inst : MSP
Misc : op93197,ep4604 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 9:46 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 09:32:02 2016
Response via : Initial Calibration



P104454.D MP4600.M Fri Apr 29 09:46:16 2016 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104677.D Vial: 2
Acq On : 9 May 2016 11:32 am Operator: linseyk
Sample : cc4604-25 Inst : MSP
Misc : op93704,ep4614 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 11:54:19 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 06 09:27:19 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.21	152	32356	40.00	ppm	-0.01
24) Naphthalene-d8	5.96	136	117530	40.00	ppm	-0.02
47) Acenaphthene-d10	8.67	164	65443	40.00	ppm	-0.02
69) Phenanthrene-d10	11.04	188	117545	40.00	ppm	-0.02
83) Chrysene-d12	15.73	240	112772	40.00	ppm	-0.02
92) Perylene-d12	18.28	264	90718	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.21	152	32356	40.00	ppm	-0.03
104) Phenanthrene-d10b	11.04	188	117545	40.00	ppm	-0.03
106) Chrysene-d12b	15.73	240	112772	40.00	ppm	-0.03
108) Naphthalene-d8b	5.96	136	117530	40.00	ppm	-0.03
110) Acenaphthene-d10b	8.67	164	65443	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	2.81	112	29117	26.05	ppm	0.00
Spiked Amount 50.000			Recovery = 52.10%			
8) Phenol-d5	3.77	99	36343	24.77	ppm	0.00
Spiked Amount 50.000			Recovery = 49.54%			
25) Nitrobenzene-d5	4.94	82	33583	26.21	ppm	-0.01
Spiked Amount 50.000			Recovery = 52.42%			
51) 2-Fluorobiphenyl	7.65	172	56428	25.05	ppm	-0.02
Spiked Amount 50.000			Recovery = 50.10%			
73) 2,4,6-Tribromophenol	9.94	330	9329	28.90	ppm	-0.01
Spiked Amount 50.000			Recovery = 57.80%			
85) Terphenyl-d14	13.85	244	59795	26.53	ppm	-0.02
Spiked Amount 50.000			Recovery = 53.06%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.70	88	10218	21.64	ppm	78
3) Pyridine	1.89	79	27893	25.71	ppm	93
4) N-Nitrosodimethylamine	1.86	42	17393	31.29	ppm	81
6) Indene	4.53	116	46311	25.37	ppm	95
7) Cumene	3.31	105	72714	25.83	ppm	98
9) Phenol	3.79	94	37396	25.24	ppm	93
10) Aniline	3.82	93	44300	26.27	ppm	74
11) bis(2-Chloroethyl)ether	3.90	93	24788	22.57	ppm	92
12) 2-Chlorophenol	3.95	128	29963	26.60	ppm	96
13) Decane	4.02	43	31738	23.39	ppm	95
14) 1,3-Dichlorobenzene	4.14	146	31450	25.18	ppm	95
15) 1,4-Dichlorobenzene	4.23	146	30312	24.47	ppm	99
16) Benzyl alcohol	4.40	108	17527	25.80	ppm	92
17) 1,2-Dichlorobenzene	4.42	146	28291	24.28	ppm	97
18) Acetophenone	4.74	105	40759	26.16	ppm	94
19) 2-Methylphenol	4.55	108	24544	25.84	ppm	94
20) 2,2'-oxybis(1-Chloropropan	4.58	121	8773	27.91	ppm #	61
21) 3&4-Methylphenol	4.76	108	26702	26.21	ppm	99
22) n-Nitroso-di-n-propylamine	4.75	70	21118	25.89	ppm	97
23) Hexachloroethane	4.87	201	12303	25.55	ppm	83
26) Nitrobenzene	4.97	77	33555	26.11	ppm	96
27) Quinoline	6.49	129	53968	25.26	ppm	97
28) Isophorone	5.31	82	56677	26.09	ppm	94

(#) = qualifier out of range (m) = manual integration
P104677.D MP4600.M Mon May 09 13:47:32 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104677.D Vial: 2
Acq On : 9 May 2016 11:32 am Operator: linseyk
Sample : cc4604-25 Inst : MSP
Misc : op93704,ep4614 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 11:54:19 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 06 09:27:19 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29) 2-Nitrophenol	5.41	139	15878	28.62	ppm		94
30) 2,4-Dimethylphenol	5.51	107	30108	27.39	ppm		97
31) Benzoic acid	5.67	105	22013	25.69	ppm		90
32) bis(2-Chloroethoxy)methane	5.65	93	31964	24.15	ppm		96
33) 2,4-Dichlorophenol	5.77	162	23873	27.56	ppm		94
34) 2,6-Dichlorophenol	6.10	162	23065	27.36	ppm		97
35) 1,3,5-Trichlorobenzene	5.43	180	27151	25.77	ppm		99
36) 1,2,4-Trichlorobenzene	5.88	180	26731	26.22	ppm		97
37) 1,2,3-Trichlorobenzene	6.21	180	24803	25.66	ppm		98
38) Naphthalene	5.99	128	81461	25.65	ppm		97
39) 4-Chloroaniline	6.10	127	34583	26.41	ppm		96
40) 2,3-Dichloroaniline	7.49	161	27802	26.05	ppm		91
41) Caprolactam	6.62	55	14249	25.77	ppm		89
42) Hexachlorobutadiene	6.20	225	18503	29.94	ppm		98
43) 4-Chloro-3-methylphenol	6.88	107	27661	28.14	ppm		95
44) 2-Methylnaphthalene	7.05	141	47424	26.95	ppm		89
45) 1-Methylnaphthalene	7.19	142	51842	26.40	ppm		90
46) Dimethylnaphthalene	8.03	156	44453	25.60	ppm		89
48) Hexachlorocyclopentadiene	7.30	237	40195	59.01	ppm		99
49) 2,4,6-Trichlorophenol	7.51	196	18239	28.34	ppm		99
50) 2,4,5-Trichlorophenol	7.56	196	19303	27.36	ppm		99
52) 2-Chloronaphthalene	7.80	162	48715	25.48	ppm		98
53) Biphenyl	7.79	154	62798	25.38	ppm		99
54) 2-Nitroaniline	8.00	65	19176	28.17	ppm		94
55) Dimethylphthalate	8.33	163	59964	26.03	ppm		99
56) Acenaphthylene	8.44	152	83587	25.80	ppm		99
57) 2,6-Dinitrotoluene	8.41	165	13325	28.25	ppm		91
58) 3-Nitroaniline	8.65	138	15188	27.59	ppm		95
59) Acenaphthene	8.73	153	51816	25.51	ppm		98
60) 2,4-Dinitrophenol	8.82	184	14245	52.87	ppm	#	73
61) 4-Nitrophenol	8.99	109	13508	34.36	ppm	#	30
62) Dibenzofuran	9.01	168	72156	25.46	ppm		87
63) 2,4-Dinitrotoluene	9.04	165	17946	28.31	ppm		81
64) 2,3,4,6-Tetrachlorophenol	9.22	232	15536	27.74	ppm		93
65) Diethylphthalate	9.48	149	68598	27.64	ppm		99
66) Fluorene	9.55	166	60103	26.17	ppm		94
67) 4-Chlorophenyl-phenylether	9.59	204	28004	26.14	ppm		85
68) 4-Nitroaniline	9.62	138	14306	26.61	ppm	#	70
70) 4,6-Dinitro-2-methylphenol	9.67	198	10119	27.22	ppm		91
71) n-Nitrosodiphenylamine	9.79	169	37640	24.72	ppm		100
72) 1,2-Diphenylhydrazine	9.84	77	64728	25.55	ppm		98
74) 4-Bromophenyl-phenylether	10.37	248	17207	27.28	ppm		82
75) Hexachlorobenzene	10.42	284	17622	26.22	ppm		84
76) Pentachlorophenol	10.76	266	22337	53.53	ppm		96
77) Phenanthrene	11.07	178	80234	25.58	ppm		100
78) Anthracene	11.15	178	81645	25.48	ppm		98
79) Carbazole	11.45	167	79624	26.15	ppm		98
80) Di-n-butylphthalate	12.15	149	118993	27.89	ppm		99
81) Fluoranthene	13.08	202	99472	26.35	ppm		99

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

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104677.D Vial: 2
Acq On : 9 May 2016 11:32 am Operator: linseyk
Sample : cc4604-25 Inst : MSP
Misc : op93704,ep4614 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 11:54:19 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 06 09:27:19 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	11.04	57	41663	24.16	ppm	90
84)	Pyrene	13.47	202	101345	25.21	ppm	96
86)	Butylbenzylphthalate	14.85	149	54251	27.38	ppm	99
87)	Butyl stearate	15.08	56	29160	23.17	ppm	93
88)	Benzo[a]anthracene	15.71	228	86190	25.20	ppm	97
89)	3,3'-Dichlorobenzidine	15.75	252	31597	26.08	ppm	97
90)	Chrysene	15.78	228	79131	24.83	ppm	99
91)	bis(2-Ethylhexyl)phthalate	16.02	149	71751	27.11	ppm	99
93)	Di-n-octylphthalate	17.23	149	126217	30.18	ppm	98
94)	Benzo[b]fluoranthene	17.64	252	83501	27.50	ppm	97
95)	Benzo[k]fluoranthene	17.70	252	75067	26.33	ppm	98
96)	Benzo[a]pyrene	18.18	252	72795	27.22	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.90	276	58657	24.27	ppm	97
98)	Dibenz(a,h)acridine	19.59	279	53564	24.60	ppm	100
99)	Dibenz[a,h]anthracene	19.95	278	57882	23.95	ppm	95
100)	7,12-Dimethylbenz(a)anthra	17.66	256	35032	28.69	ppm	98
101)	Benzo[g,h,i]perylene	20.26	276	61782	23.84	ppm	97

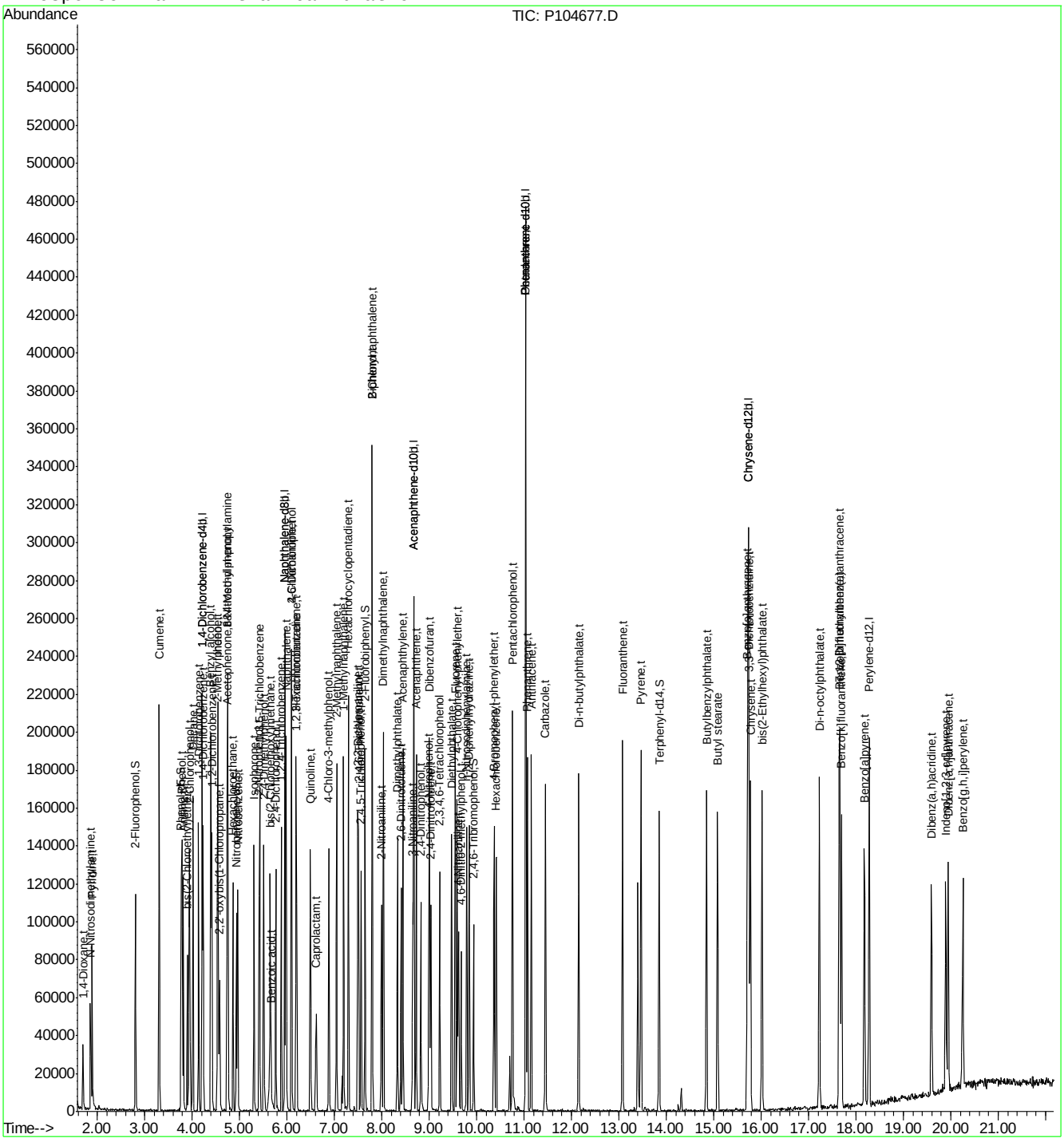
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104677.D Vial: 2
Acq On : 9 May 2016 11:32 am Operator: linseyk
Sample : cc4604-25 Inst : MSP
Misc : op93704,ep4614 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 11:55 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104678.D Vial: 3
Acq On : 9 May 2016 12:01 pm Operator: linseyk
Sample : cc4601-25 Inst : MSP
Misc : op93704,ep4614 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 12:23:33 2016 Quant Results File: MP4600.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 06 09:27:19 2016
Response via : Initial Calibration
DataAcq Meth : MP4600

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.21	152	32190	40.00	ppm	-0.02
24) Naphthalene-d8	5.96	136	118706	40.00	ppm	-0.02
47) Acenaphthene-d10	8.67	164	70411	40.00	ppm	-0.02
69) Phenanthrene-d10	11.04	188	130517	40.00	ppm	-0.02
83) Chrysene-d12	15.72	240	123541	40.00	ppm	-0.03
92) Perylene-d12	18.27	264	101196	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.21	152	32190	40.00	ppm	-0.03
104) Phenanthrene-d10b	11.04	188	130517	40.00	ppm	-0.03
106) Chrysene-d12b	15.72	240	123541	40.00	ppm	-0.04
108) Naphthalene-d8b	5.96	136	118706	40.00	ppm	-0.03
110) Acenaphthene-d10b	8.67	164	70411	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	3.70	105	19079	22.94	ppm	92
105) Atrazine	10.70	200	16138	28.10	ppm	91
107) Benzidine	13.40	184	50261	27.19	ppm	99
109) Hydroquinone	6.67	110	24354	25.66	ppm	88
111) 1,2,4,5-Tetrachlorobenzene	7.31	216	25097	26.14	ppm	96

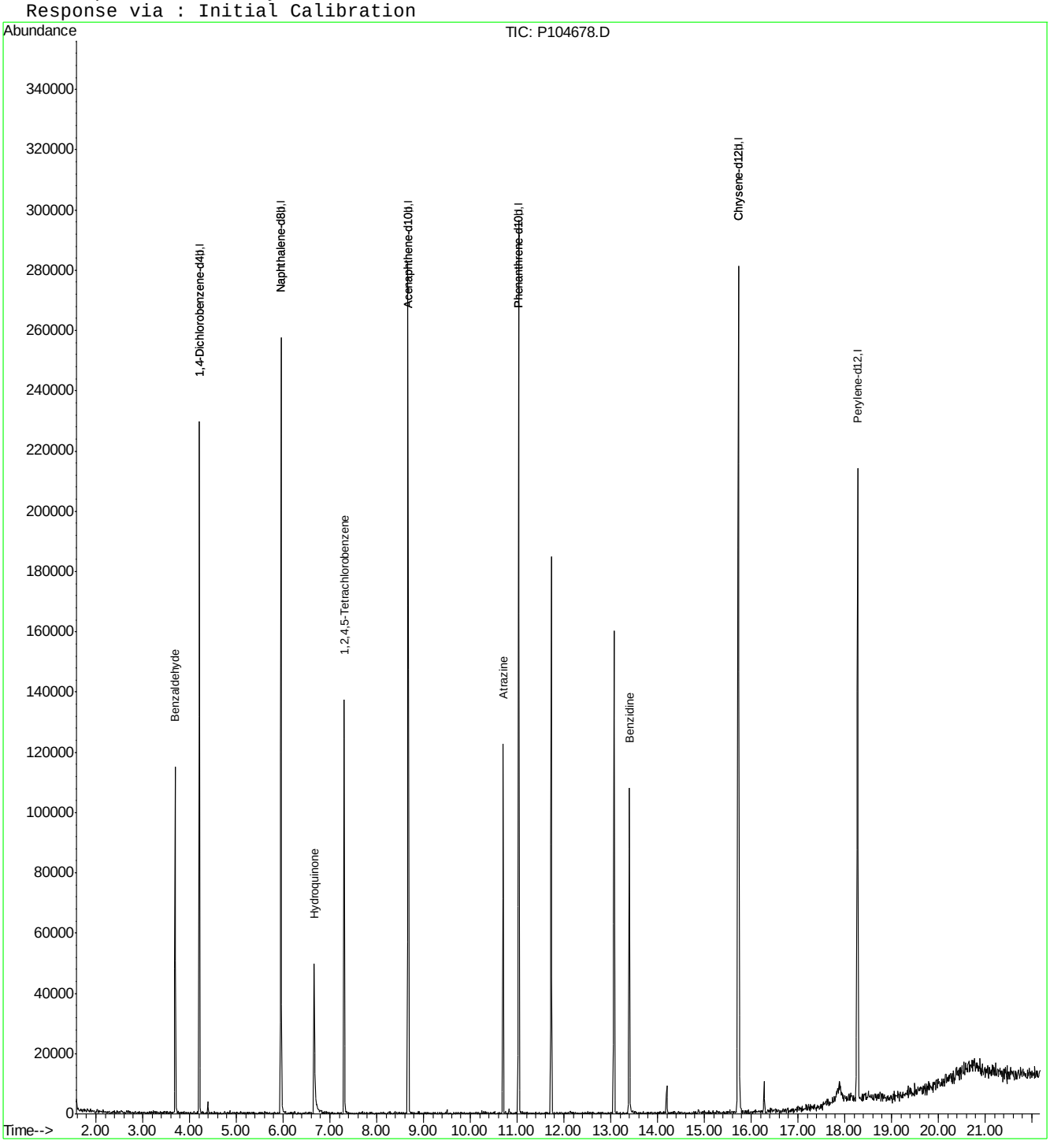
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19759

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4614\P104678.D Vial: 3
Acq On : 9 May 2016 12:01 pm Operator: linseyk
Sample : cc4601-25 Inst : MSP
Misc : op93704,ep4614 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 12:23 2016 Quant Results File: MP4600.RES

Method : C:\MSDCHEM\1\METHODS\MP4600.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 09 12:42:29 2016
Response via : Initial Calibration



SGS ACCUTEST JC19759

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.
		4/14/16

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 ~~ICC2855-1.0~~ 4/14/16		4/14/16 ~~BRASIM~~	W	1					not	deg ↑ recirculate
	60762	DFTPP			W	1					OK	1:31pm
	60763A	ICC2855-1.0			W	2					ok	SVI51827-104C non-A fluoranthene method
	60764A	ICC2855-0.5				3					ok	104D
	60765A	ICC2855-0.2				4					OK	104E
	60766	ICC2855-0.1				5					ok	104F
	60767	ICC2855-0.05				6					OK	104G
	60768	ICC2855-0.02				7					ok	104H
	60769	ICC2855-0.01				8					ok	104I
	60770	ICC2855-5.0				9					ok	104A
	60771	ICC2855-2.5				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: E3M2875 (JMJ 5/6/16)

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 5/6/16

Columns: ZB-5ms (30m x .25mm x .25µm)

Method: 8270D/625

Initial Cal. Method: M3M2855SIM

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827100	DFTPP	50ppm
SV161935B	SIM Std	0.5ppm
162661	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: JM Date: 5-9-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M61147	DFTPP				1					d	10:25am
	61148	CC2855-05				2					d	12:7
	61149	OP93693-MB1	93693	BB270		3			/	/	d	
	61150	-BS12				4			/	/	d	
	61151	-MS				5			/	/	d	
	61152	-MSD				6			/	/	d	
	61153	JL19759-1		BSIM 1:10DIX + NAP		7			/	/	d	
	61154	-2				8			/	/	d	
	61155	-3				9			/	/	d	
	61156	-4				10			/	/	d	
	61157	-5				11			/	/	d	
	61158	-6				12			/	/	d	5:27am

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3M2876

Print Analyst Name: Linsey K

Analyst Signature: JK

Date: 5/9/16

Columns: 28-5ms 30m x .25mm x .25um

Method: 8270D/625

Initial Cal. Method: M3M2855sim

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM5108-08	DFTPP	50ppm
SM6935-9	Sim std	1.25ppm
-7	Sim Internal	4ppm
160160	DMF Fisher	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3m61159	DFTPP			W	1					ok	8:51AM
	61160	CC2855-10		BNSim	W	2					ok	
	61161	JC19759-3	930931	1,4dioxane	W	3			/	/	ok	
	61162	OP93029-MB1	930931	B8270	W	4						
	61163	-BS12				5						
	61164	-MS				6						
	61165	-MSd				7						
	61166	JC19513-10		B8270MNS +1,4dioxane		8						
	61167	JC19510-8		B8270MNS +1,4dioxane		9						
	61168	-9		B8270MNS +1,4dioxane		10						
	61169	JC19589-4		B8270MNS +1,4dioxane		11						
	61170	JC19512-6		1,4dioxane		12						
R	61171	OP93473-MB1	930473-1	B8270	S	13			/	/	ok	
	61172	JC19691-1	930771	1,4dioxane		14					not an	seq. changed
	61173	-3				15						
	61174	-4				16						
	61175	-5				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

ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E6P1155

Date: 4/5/2016

Analyst Signature: SED

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SH151829-108	DFTPP	50 ppm
CM-5732	Internal Std	1000 ppm
162108	DCM (Fisher)	"

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

Method 8270 D/625

Initial Cal. Method M6P1155 5 SD 4/5/16

Injection Volume: 1 ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO. Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	6P24811	DFTPP			W	1					OK	434pm
	24812	IC1155-2		BMA		2					OK	SH5182760H
	24813	~~IC1155-1~~				3					OK	I
	24814	-100				4					OK	SH5182760A
	24815	-80				5					OK	B
	24816	-25				6					OK	D
	24817	-10				7					OK	E
	24818	-5				8					OK	G
	24819A	ICC1155-50				9					OK	815PM C Instrument shutdown, RR as A file

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.

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

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Form: OR015-05
Rev. Date: 1/16/2006

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ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E6P1156

Date: 4/5/2016

Analyst Signature: SED

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.
SV151824-108	DFTPP	50 ppm
SV151827-73H	TCL42	2 ppm
-73I	↓	1 ↓
CM5732	Internal Std	4000 ppm
162108	DCM (Fisher)	—

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

Method 8270 D/625

Initial Cal. Method M6P1155

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: AMO

Date: 4/6/16.

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	6P24820	DFTPP			W	1					NG	68↑, reinject
	24821	DFTPP			W	1					↓	68↑, reinject
	24822	DFTPP			W	1					OK	919PM
	24823	IC1156-100		TCL42		2					OK	
	24824	-80				3					OK	
	24825	IC1156-50				4					OK	
	24826	IC1156-25				5					OK	
	24827	IC1156-10				6					OK	
	24828	-5				7					OK	
	24829	-2				8					OK	
	24830	-1				9					OK	
	24831	ICV1155-50		Acids		10					RR	SV151827-79 #601
	24832	-50		Aniline		11					OK	-78
	24833	-50		ABN surr		12					OK	OP16171233
	24834	-50		BN1		13					OK	SV151827-88
	24835	-50		BN2		14					OK	-80 not DOD for #40
	24836	ICV1156-50		HQ		15					OK	-98C

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

ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E6P1156

Date: 4/5/2016

Analyst Signature: SED

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 133	

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

Method 8270 D/625

Initial Cal. Method M6P1155

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: ANO.

Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	6P 24837	ICV 1156-50		Benzidine 3rd		16					OK	356am SV151827-38F BZDT

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

ANO

Sample volume/weight used and final volumes refer to extraction log.

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

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Form: OR015-05
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SGS ACCUTEST JC19759

ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E6P1157

Date: 4/6/2016

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM5187108	DFTPP	50 ppm
CM5732	Internal Std.	4000 ppm
162108	DCM (Fisher)	— "

Columns: RX5ms/MS30mx.5mmx.25µm

Method 8270D/625

Initial Cal. Method M6D1155

Injection Volume: 1µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	6P24838	DFTPP				1					OK	941AM.
	24839	ICV1155-50		Acid 2nd	W	2					OK	SM5187779. 953AM
												AMO

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.

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

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1201

Print Analyst Name: Sean Black

Analyst Signature: Sean T Black

Date: 5/6/16

Columns: Rtx-5Silms 30m x .25mm x .25µm

Method: 8270 D/625

Initial Cal. Method: M6P1155

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 157829-108	DFTPP	50ppm
SV 157827-107H	BNA	20ppm
SV 151827-177B	TCL42	20ppm
CM-5732	Internal Std	4000ppm
162661	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: 5/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	6P25710	DFTPP				1					NC	ions 7, re-inject
	25711	DFTPP				1						68T, re-install
	25712	DFTPP				1						68T, re-inject
	25713	DFTPP				1						68T; adjust time re-inject
	25714	DFTPP				1					dt	9:51pm
	25715	cc1155-75		BNA		2					dt	2,3,4,10,48↓ phthalates ↑
	25716	cc1156-265 SB 5/6/16		TCL42		3					dt	1,25↓
	25717	bna 1ppm ve				4					dt	SV157827-62M SB 5/6/16 all ✓
	25718	2L42 1ppm ve				5					dt	SV157827-75D
	25719	OP93693-mb1	93693	AB8270	W	6			/	/	dt	
	25720	OP93695-mb1	93695	TCLP		7			/	/	dt	
	25721	OP93655-1628	93655			8			/	/	dt	
	25722	-1632				9			/	/	dt	
	25723	-bs1				10			/	/	dt	
	25724	OP93693-bs1	93693	AB8270		11			/	/	dt	
	25725	-ms				12			/	/	dt	
	25726	-msd				13			/	/	dt	

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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Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E6P1201

Print Analyst Name: Sam Black

Analyst Signature: Sam Black

Date: 5/6/16

Columns: Rtx-5ms 30m x 25mm x 25µm

Method 8270D/625

Initial Cal. Method M6P1155

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 87	

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: AMMO. Date: 5/9/16.

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	6P25727	JC19759-1	93693	ABSL MNAP 20MNAP	W	14			/	/	dc	RR1:50 1,4dioxane
	25728	-2	↓	↓	↓	15			/	/	dc	RR1:100 1,4dioxane
	25729	-3				16			/	/	Not using	Peak for DISCE
	25730	-4				17			/	/	dc	RR1:50 1,4dioxane
	25731	-5				18			/	/	dc	RR1:100 1,4dioxane
	25732	-6	↓	↓		19			/	/	dc	RR1:50 1,4dioxane
	25733	JC19523-1rx	93655-2	TCLP		20			/	/	dc	
	25734	JC19575-13A	93655-2			21			/	/	OK	
	25735	-14A	↓			22			/	/	OK	
	25736	OP93695-1s16	93695-1			23			/	/	OK	
	25737	msd	↓	↓	↓	24			/	/	OK	7.50g

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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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EP4601

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 4/27/16

Columns: ZB-5ms (+) 30mx.25mmx.25um

Method: 8270D/625

Initial Cal. Method: MP4600

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVS1824-108	DFTPP	50ppm
CM5732	Internal std.	4000ppm
1624418	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: 4/29/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	P104411	DFTPP			W	1					OK	3:21pm
	104412	IC4601-100		TCL42	W	2					OK	SV161935-3A
	104413	-80				3					OK	-3B
	104414	IC4601-50				4					OK	-4A
	104415	IC4601-25				5					OK	-3D
	104416	-10				6					OK	-3E
	104417	-5				7					OK	-3G
	104418	-2				8					OK	-3H
	104419	-1				9					OK	-3I
	104420	ICV4600-50		Acids		10					OK AMO 4/29/16 RR	SV151827-129 RR
	104421	ICV4600-50		Abnsurr		11					OK not needed	SP151624-42 Recalibrating BNA
	104422	ICV4600-50	AMO 4/29/16	BN1		12					OK	SV161935-1
	104423	ICV4600-50		BN2		13					RR OK	SV151827-134
	104424	ICV4600-50		Anil		14			not needed		OK	AMO 4/29/16 -130 Recalibrating BNA
	104425	ICV4601-50		HQ		15					OK	-98A
	104426	ICV4601-50		BN 3rd		16					RR	SV161935-14B 1022PM

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate. AMO

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 JC19759

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4602

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 4/28/16

Columns: ZB-5ms@30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method 8 MP4600

Injection Volume: 1ell

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827-08	DFTPP	50ppm
CN5732	Internal std	4000ppm
162489	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: 4/29/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	P104427	DFTPP			W	1					NG	PCPA reinject
	104428	DFTPP			W	1					↓	Aban reinject
	104429	DFTPP			W	1					NG	8605 reinject
	104430	DFTPP			W	1					↓	Aban reinject
	104431	DFTPP			W	1					OK	1151AM
	104432	ICV4600-50		AcNs	W	2					~~RR~~ not needed	SV151827-16 1619351-16
	104433	ICV4600-50		Bnc		3					~~RR~~ Holding	SV151827-113
	104434	ICV4601-50		Benzidine 3rd		4					OK	38B 121PM

AMO 4/29/16

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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4604

Print Analyst Name: Ashley M. Dye

Analyst Signature: AMD

Date: 4/28/2016

Columns: 35MS 30mx0.5mmx0.25µ

Method 8270D/625

Initial Cal. Method MP4600

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV5182710A	DFTPP	50ppm
OU5732	internal std.	4000ppm
162189	D (Alfisher)	11

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: 4/29/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	P104440	DFTPP				1					✓	50ppm
	104441	IC4604-100		BNA	W	2					✓	SV5182710A
	104442	-80				3					✓	B
	104443	ICC4604-50				4					✓	C
	104444	IC4604-25				5					✓	D
	104445	-10				6					✓	E
	104446	-5				7					✓	G
	104447	-2				8					✓	H
	104448	-1				9					✓	I
	104449	ICV4604-50		BN1spike	W	10					✓	SV5182923 AMD 4/28/16
	104450	-50		BN2spike	W	11					✓	SV16193510
	104451	-50		Aniline	W	12					✓	SV5182914
	104452	-50		Acid	W	13					✓	SV5182994
	104453	-50		BED3rd	W	14					✓	SV5182938D
	104454	-50		ABNSurrogate	W	15					✓	OP16172233

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 EP4614

Print Analyst Name: LMSeyk

Analyst Signature: [signature]

Date: 5/9/16

Columns: 2B-5ms @ 3mx.25mmx.25um

Method 8270D/625

Initial Cal. Method MP4600

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SL115829-10F	DFTPP	50ppm
SL106235-19F	BNA	25ppm
-41D	TCL42	25ppm
CM5132	Internal std.	40ppm
1606001	DCM-(5ml)	—

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: 5/10/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	P104674	DFTPP			W	1					NG	443↑ reinject
	104675	DFTPP 1.5ml/10			W	1					OK	11:16AM
	104676	CC4604-25		BNA	W	2					retrun	~~AA 00 AC~~ [illegible]
	104677	CC4604-25		BNA	W	2	2				OK	4,4,93↑
	104678	CC4601-25		TCL42	W	3	08/16				OK	
	104679	089303mb	93693	ABS270	W	4			✓	✓	OK	
	104680	JC19759-3		ABS+2mmp +1mmp		5		*	✓	✓	OK	
	104681	-2				6	100	AMO		X	OK	
	104682	-5				7	100		/	-	OK	
	104683	-1				8	50		/	-	OK	
	104684	-4				9	50		/	-	OK	
	104685	-6				10	50		/	-	OK	
R	104686	JC19634-2 1x	93691	DAN	S	11	20		/	/	OK	
	104687	JC19660-3	93541-1	5ml/40ul 1x	W	12			/	/	OK	
	104688	-4				13			/	/	OK	
	104689	093718-mb	93718-1	ABS270		14			/	/	~~NG~~ OK	~~NG for~~ [illegible]
	104690	-bs1				15			/	/	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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4614

Print Analyst Name: Linsey K

Analyst Signature: [signature]

Date: 5/9/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Surr 35	

Columns: 2B-5MS 30m x .25mm x .25um

Method 8270D/1625

Initial Cal. Method MP4/600

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: [signature] Date: 5/10/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	P104691	DR93710-bs	93718-1	ABS270	W	16			/	/	OK	
	104692	JC19855-2		ABS270 + 2 mmpt + 1 mmp		17			/	/	OK	M 1:100
	104693	-1				18			/	/	OK	
	104694	JC19636-1	93689-1	PAH	S	19			/	/	OK	ran after P104687
	104695	JC19769-7		ABPPL®		20		+	/	/	OK	
	104696	JC19779-1 rx		BTEX®		21			/	/	OK	
	104697	JC19716-3		ABNSC08		22			/	/	OK	
	104698	JC19779-4R rx		ABTEX®		23		+	/	/	OK	
	104699	JC19769-9		ABPPL®		24		+	/	/	OK	M 1:10
	104700	JC19716-1		ABNSC08		25			/	/	OK	11:13pm
	104701	JC19736-1		PAH		26			/	/	OK	ran after P104687

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

7.7.11

7

LOGBOOK ID: 6-1748

ABN Aqueous Extraction Logbook

Date Started: 5/6/16 Time Started: 3:30pm
Date Finished: 5/6/16 Time Finished: 2100

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

BATCH # MS 93693 RACK# D2

Extracted by: ADL
Concentrated by: ADL, RF
Vialed by: RF
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

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

	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	5	clear	1		
	BS1			DI H2O	1000	1	5	yellow	1		
	JC19759-1 MS		2	yellow	975	1	5	yellow	1		
	MSD		2	yellow	975	1	5	yellow	1		
	BS2 SIM			DI H2O	1000	1	5	l.yellow	1		
	JC19759-3 MS		1	clear	400	1	5	l.yellow	1		
	MSD		1	clear	400	1	5	l.yellow	1		
1	JC19759-1	ABN	1	yellow	950	1	5	l.yellow	1		
2	-2		1	l.orange	800	1	5	clear	1		*
3	-3		2	clear	900	1	5	clear	1		
4	-4		1	yellow	810	1	5	l.yellow	1		*
5	-5		2	yellow	950	1	5	clear	1		
6	-6		2	brown	850	1	5	clear	1		*
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

1d TAT

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

Comments: Okay to split MS/MSD, not enough bottles
okay to split SIM MS/MSD, not enough bottles
* low initial volume recieved, full bottle extracted SP 5/9/16.

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)			-		
Buchi Chiller					
Waterbath (70-80°C)	6,7	78, 75.8	-0.5, -0.1	76, 76	NA
Waterbath Chiller (GPM)	F2	3	—	—	1.5
NEVAP (32-38°C, LPM)	2	36.0	+0.1	36	10

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16 A12 92	50	1

WITNESS SIGN: ADL SPIKE SIGN: KS

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid			Acid: 1
Acid (for SIM)	16 1935 16	50	A(SIM): 0.1
Base #1	16 1935 17	50	1
Base #2	16 1935 10	50	1
Anilines	16 1935 15	50	1
BSIM	16 1712 66	1	1

WITNESS SIGN: ADL SPIKE SIGN: KS

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162661	Fisher	6/60

REAGENT	LOT #	BRAND
NaOH	153803	Fisher
H2SO4	260496	Fisher
Sodium Sulfate	157477	Fisher
Glass Wool	02005-2	lab
Filter Paper		
pH strips		

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

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LOGBOOK ID: 6-1748

ABN Aqueous Extraction Logbook

Date Started: 5/6/16 Time Started: 3:30pm
Date Finished: 5/6/16 Time Finished: 2100

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

BATCH # MS 93693 RACK# D2

Extracted by:	ADL
Concentrated by:	ADL, RF
Vialed by:	RF
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

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

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	5	clear	1		
BS1			DI H2O	1000	1	5	yellow			
JC19759-1 MS		2	yellow	975	1	5	yellow	1		
↓ MSD		2	yellow	975	1	5	yellow	1		
BS 2 SIM			DI H2O	1000	1	5	l.yellow	1		
JC19759-3 MS		1	clear	400	1	5	l.yellow	1		
MSD	↓	1	clear	400	1	5	l.yellow	1		
1 JC19759-1	ABN	1	yellow	950	1	5	l.yellow	1		
2 -2		1	l.orange	800	1	5	clear	1		*
3 -3		2	clear	900	1	5	clear	1		
4 -4		1	yellow	810	1	5	l.yellow	1		*
5 -5		2	yellow	950	1	5	clear	1		
6 -6		2	brown	850	1	5	clear	1		*
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

1d TAT

Comments: Okay to split MS/MSD, not enough bottles
okay to split SIM MS/MSD, not enough bottles
* low initial volume recieved, full bottle extracted SP 5/9/16.

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)			-		
Buchi Chiller					
Waterbath (70-80°C)	6,7	78, 75.8	-0.5, -0.1	76, 76	NA
Waterbath Chiller (GPM)	F2	3	—	—	1.5
NEVAP (32-38°C, LPM)	2	36.0	+0.1	36	10

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16 A12 92	50	1

WITNESS SIGN: ADL SPIKE SIGN: KS

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid			Acid: 1
Acid (for SIM)	16 1935 16	50	A(SIM): 0.1
Base #1	16 1935 17	50	1
Base #2	16 1935 10	50	1
Anilines	16 1935 15	50	1
BSIM	16 1712 66	1	1

WITNESS SIGN: ADL SPIKE SIGN: KS

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162661	Fisher	6/60

REAGENT	LOT #	BRAND
NaOH	153803	Fisher
H2SO4	260496	Mcca
Sodium Sulfate	157477	Fisher
Glass Wool	02805-2	lab
Filter Paper		
pH strips		

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

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

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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: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93694-MB1	4G67975.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

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	91%	26-132%
877-09-8	Tetrachloro-m-xylene	87%	26-132%
2051-24-3	Decachlorobiphenyl	111%	10-118%
2051-24-3	Decachlorobiphenyl	94%	10-118%

Blank Spike Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93694-BS1	4G67976.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.167	0.15	90	38-138
319-84-6	alpha-BHC	0.167	0.15	90	51-144
319-85-7	beta-BHC	0.167	0.16	96	55-137
319-86-8	delta-BHC	0.167	0.15	90	33-148
58-89-9	gamma-BHC (Lindane)	0.167	0.16	96	53-142
5103-71-9	alpha-Chlordane	0.167	0.15	90	52-137
5103-74-2	gamma-Chlordane	0.167	0.16	96	52-140
60-57-1	Dieldrin	0.167	0.17	102	54-144
72-54-8	4,4'-DDD	0.167	0.16	96	46-151
72-55-9	4,4'-DDE	0.167	0.14	84	51-142
50-29-3	4,4'-DDT	0.167	0.13	78	53-158
72-20-8	Endrin	0.167	0.17	102	53-149
1031-07-8	Endosulfan sulfate	0.167	0.16	96	49-148
7421-93-4	Endrin aldehyde	0.167	0.18	108	45-137
53494-70-5	Endrin ketone	0.167	0.16	96	48-142
959-98-8	Endosulfan-I	0.167	0.16	96	54-139
33213-65-9	Endosulfan-II	0.167	0.17	102	54-142
76-44-8	Heptachlor	0.167	0.15	90	45-137
1024-57-3	Heptachlor epoxide	0.167	0.16	96	54-140
72-43-5	Methoxychlor	0.167	0.14	84	51-157

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	92%	26-132%
877-09-8	Tetrachloro-m-xylene	88%	26-132%
2051-24-3	Decachlorobiphenyl	100%	10-118%
2051-24-3	Decachlorobiphenyl	86%	10-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93694-MS	4G67977.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782
OP93694-MSD	4G67978.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782
JC19759-2	4G67980.D	1	05/06/16	BP	05/06/16	OP93694	G4G1782

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19759-1, JC19759-2, JC19759-3, JC19759-4, JC19759-5, JC19759-6

CAS No.	Compound	JC19759-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.333	0.30	90	0.333	0.35	105	15	37-159/40
319-84-6	alpha-BHC	ND		0.333	0.31	93	0.333	0.35	105	12	37-164/37
319-85-7	beta-BHC	ND		0.333	0.29	87	0.333	0.34	102	16	46-151/36
319-86-8	delta-BHC	ND		0.333	0.31	93	0.333	0.36	108	15	32-168/36
58-89-9	gamma-BHC (Lindane)	ND		0.333	0.34	102	0.333	0.39	117	14	44-160/37
5103-71-9	alpha-Chlordane	ND		0.333	0.40	120	0.333	0.45	135	12	38-160/35
5103-74-2	gamma-Chlordane	ND		0.333	0.64	192* [a]	0.333	0.77	231* [a]	18	39-157/37
60-57-1	Dieldrin	ND		0.333	0.36	108	0.333	0.42	126	15	42-161/36
72-54-8	4,4'-DDD	ND		0.333	0.33	99	0.333	0.39	117	17	40-161/36
72-55-9	4,4'-DDE	ND		0.333	0.32	96	0.333	0.37	111	14	34-158/36
50-29-3	4,4'-DDT	ND		0.333	0.26	78	0.333	0.32	96	21	41-173/33
72-20-8	Endrin	ND		0.333	0.41	123	0.333	0.42	126	2	44-166/35
1031-07-8	Endosulfan sulfate	ND		0.333	0.37	111	0.333	0.43	129	15	46-161/36
7421-93-4	Endrin aldehyde	ND		0.333	0.34	102	0.333	0.33	99	3	34-149/36
53494-70-5	Endrin ketone	ND		0.333	0.36	108	0.333	0.43	129	18	44-157/36
959-98-8	Endosulfan-I	ND		0.333	0.33	99	0.333	0.38	114	14	43-154/35
33213-65-9	Endosulfan-II	ND		0.333	0.34	102	0.333	0.40	120	16	40-162/35
76-44-8	Heptachlor	ND		0.333	0.31	93	0.333	0.37	111	18	33-153/37
1024-57-3	Heptachlor epoxide	ND		0.333	0.36	108	0.333	0.43	129	18	45-154/37
72-43-5	Methoxychlor	ND		0.333	0.31	93	0.333	0.38	114	20	48-169/32
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC19759-2	Limits
877-09-8	Tetrachloro-m-xylene	83%	109%	79%	26-132%
877-09-8	Tetrachloro-m-xylene	65%	85%	76%	26-132%
2051-24-3	Decachlorobiphenyl	84%	113%	90%	10-118%
2051-24-3	Decachlorobiphenyl	62%	82%	80%	10-118%

(a) Outside the QC limits.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67973.D	**Injection Time:**	14:57
Instrument ID:	GC4G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	368190385	2.09	415229580	1.82
Upper Limit [a]	736380770	2.59	830459160	2.32
Lower Limit [b]	184095193	1.59	207614790	1.32

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP93694-MB1	397992467	2.07	420117851	1.79
OP93694-BS1	385824711	2.06	411278490	1.80
OP93694-MS	379004157	2.07	358150769	1.80
OP93694-MSD	362313849	2.07	338667953	1.80
JC19759-1	370553532	2.07	402120807	1.80
JC19759-2	382887528	2.07	438167101	1.80
JC19759-3	385453028	2.07	438409654	1.80
JC19759-4	421533505	2.07	482480892	1.80
JC19759-5	373122679	2.07	395103996	1.80
JC19759-6	366635195	2.06	441905628	1.79
ZZZZZZ	372668004	2.07	427634661	1.80
ZZZZZZ	411212115	2.07	469094417	1.80
ZZZZZZ	393138250	2.07	445649483	1.80
ZZZZZZ	376694827	2.07	421493515	1.81
ZZZZZZ	373728647	2.07	412643222	1.80
OP93657-LB28	415835833	2.07	444273280	1.82
OP93657-LB29	384007854	2.07	427796244	1.80
OP93657-MS	399559219	2.07	456302030	1.81
OP93657-LS15	399559219	2.07	456302030	1.81
OP93657-MSD	388916658	2.07	440529207	1.80

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

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

DDT/Endrin Breakdown Check

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1778-DDT
Lab File ID: 4G67830.D
Instrument ID: GC4G
Injection Date: 05/02/16
Injection Time: 13:55

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: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G4G1782-DDT	**Injection Date:**	05/06/16
Lab File ID:	4G67972.D	**Injection Time:**	14:42
Instrument ID:	GC4G		

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
JC19759-1	4G67979.D	05/06/16	16:28	01:46	S-43S
JC19759-2	4G67980.D	05/06/16	16:43	02:01	RA-11 GWD
JC19759-3	4G67981.D	05/06/16	16:58	02:16	EB 050516
JC19759-4	4G67982.D	05/06/16	17:13	02:31	RA-10GWS
JC19759-5	4G67983.D	05/06/16	17:29	02:47	S-43D
JC19759-6	4G67984.D	05/06/16	17:44	03:02	RA-10 GWD
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: JC19759
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)
ZZZZZZ	4G68007.D	05/06/16	23:32	08:50	(unrelated sample)
ZZZZZZ	4G68008.D	05/06/16	23:47	09:05	(unrelated sample)

GC Identification Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67973.D	**Injection Time:**	14:57
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP93694-BS1	**Injection Date:**	05/06/16
Lab File ID:	4G67976.D	**Injection Time:**	15:43
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	4.43	4.43	0.16		ug/l	6.5
Aldrin	2 [a]	5.45	5.46	0.15		ug/l	
alpha-BHC	1	3.15	3.16	0.16		ug/l	6.5
alpha-BHC	2 [a]	3.86	3.87	0.15		ug/l	
beta-BHC	1 [a]	3.61	3.61	0.16		ug/l	6.1
beta-BHC	2	4.44	4.44	0.17		ug/l	
delta-BHC	1	4.05	4.06	0.15		ug/l	0.0
delta-BHC	2 [a]	4.87	4.87	0.15		ug/l	
gamma-BHC (Lindane)	1	3.50	3.50	0.17		ug/l	6.1
gamma-BHC (Lindane)	2 [a]	4.34	4.35	0.16		ug/l	
alpha-Chlordane	1	5.56	5.56	0.16		ug/l	6.5
alpha-Chlordane	2 [a]	6.85	6.85	0.15		ug/l	
gamma-Chlordane	1	5.38	5.38	0.17		ug/l	6.1
gamma-Chlordane	2 [a]	6.61	6.62	0.16		ug/l	
Dieldrin	1	6.08	6.08	0.18		ug/l	5.7
Dieldrin	2 [a]	7.40	7.40	0.17		ug/l	
4,4'-DDD	1	6.58	6.57	0.18		ug/l	11.8
4,4'-DDD	2 [a]	8.08	8.08	0.16		ug/l	
4,4'-DDE	1 [a]	5.69	5.69	0.14		ug/l	13.3
4,4'-DDE	2	7.11	7.11	0.16		ug/l	
4,4'-DDT	1 [a]	7.00	6.99	0.13		ug/l	26.7
4,4'-DDT	2	8.62	8.62	0.17		ug/l	
Endrin	1	6.42	6.42	0.18		ug/l	5.7
Endrin	2 [a]	7.92	7.92	0.17		ug/l	
Endosulfan sulfate	1	8.09	8.09	0.17		ug/l	6.1
Endosulfan sulfate	2 [a]	9.33	9.33	0.16		ug/l	
Endrin aldehyde	1	7.40	7.40	0.19		ug/l	5.4
Endrin aldehyde	2 [a]	8.85	8.86	0.18		ug/l	
Endrin ketone	1	8.56	8.55	0.17		ug/l	6.1
Endrin ketone	2 [a]	10.19	10.19	0.16		ug/l	
Endosulfan-I	1	5.74	5.74	0.17		ug/l	6.1
Endosulfan-I	2 [a]	6.95	6.95	0.16		ug/l	
Endosulfan-II	1	6.76	6.76	0.20		ug/l	16.2
Endosulfan-II	2 [a]	8.28	8.28	0.17		ug/l	
Heptachlor	1 [a]	3.83	3.82	0.15		ug/l	0.0
Heptachlor	2	4.97	4.97	0.15		ug/l	
Heptachlor epoxide	1	5.19	5.20	0.17		ug/l	6.1
Heptachlor epoxide	2 [a]	6.32	6.32	0.16		ug/l	
Methoxychlor	1 [a]	7.81	7.81	0.14		ug/l	19.4
Methoxychlor	2	9.83	9.83	0.17		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67973.D	**Injection Time:**	14:57
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP93694-MS	**Injection Date:**	05/06/16
Lab File ID:	4G67977.D	**Injection Time:**	15:58
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	4.43	4.43	0.30		ug/l	3.4
Aldrin	2	5.45	5.46	0.29		ug/l	
alpha-BHC	1 [a]	3.15	3.16	0.31		ug/l	10.2
alpha-BHC	2	3.86	3.87	0.28		ug/l	
beta-BHC	1 [a]	3.61	3.61	0.29		ug/l	3.4
beta-BHC	2	4.44	4.44	0.30		ug/l	
delta-BHC	1 [a]	4.05	4.06	0.31		ug/l	17.5
delta-BHC	2	4.87	4.87	0.26		ug/l	
gamma-BHC (Lindane)	1 [a]	3.50	3.50	0.34		ug/l	19.4
gamma-BHC (Lindane)	2	4.34	4.35	0.28		ug/l	
alpha-Chlordane	1 [a]	5.56	5.56	0.40		ug/l	31.9
alpha-Chlordane	2	6.85	6.85	0.29		ug/l	
gamma-Chlordane	1 [a]	5.38	5.38	0.64		ug/l	61.2
gamma-Chlordane	2	6.61	6.62	0.34		ug/l	
Dieldrin	1 [a]	6.08	6.08	0.36		ug/l	2.8
Dieldrin	2	7.40	7.40	0.35		ug/l	
4,4'-DDD	1 [a]	6.57	6.57	0.33		ug/l	6.3
4,4'-DDD	2	8.08	8.08	0.31		ug/l	
4,4'-DDE	1 [a]	5.69	5.69	0.32		ug/l	19.7
4,4'-DDE	2	7.11	7.11	0.39		ug/l	
4,4'-DDT	1 [a]	6.99	6.99	0.26		ug/l	20.7
4,4'-DDT	2	8.62	8.62	0.32		ug/l	
Endrin	1 [a]	6.42	6.42	0.41		ug/l	15.8
Endrin	2	7.92	7.92	0.35		ug/l	
Endosulfan sulfate	1 [a]	8.09	8.09	0.37		ug/l	20.9
Endosulfan sulfate	2	9.33	9.33	0.30		ug/l	
Endrin aldehyde	1 [a]	7.39	7.40	0.34		ug/l	15.9
Endrin aldehyde	2	8.85	8.86	0.29		ug/l	
Endrin ketone	1 [a]	8.55	8.55	0.36		ug/l	8.7
Endrin ketone	2	10.19	10.19	0.33		ug/l	
Endosulfan-I	1 [a]	5.74	5.74	0.33		ug/l	12.9
Endosulfan-I	2	6.95	6.95	0.29		ug/l	
Endosulfan-II	1 [a]	6.76	6.76	0.34		ug/l	6.1
Endosulfan-II	2	8.28	8.28	0.32		ug/l	
Heptachlor	1 [a]	3.82	3.82	0.31		ug/l	13.8
Heptachlor	2	4.97	4.97	0.27		ug/l	
Heptachlor epoxide	1 [a]	5.19	5.20	0.36		ug/l	118.2
Heptachlor epoxide	2	6.31	6.32	1.4	E	ug/l	
Methoxychlor	1 [a]	7.80	7.81	0.31		ug/l	0.0
Methoxychlor	2	9.83	9.83	0.31		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67973.D	**Injection Time:**	14:57
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP93694-MSD	**Injection Date:**	05/06/16
Lab File ID:	4G67978.D	**Injection Time:**	16:13
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	4.43	4.43	0.35		ug/l	0.0
Aldrin	2	5.45	5.46	0.35		ug/l	
alpha-BHC	1 [a]	3.15	3.16	0.35		ug/l	22.2
alpha-BHC	2	3.87	3.87	0.28		ug/l	
beta-BHC	1 [a]	3.61	3.61	0.34		ug/l	2.9
beta-BHC	2	4.44	4.44	0.35		ug/l	
delta-BHC	1 [a]	4.06	4.06	0.36		ug/l	21.5
delta-BHC	2	4.87	4.87	0.29		ug/l	
gamma-BHC (Lindane)	1 [a]	3.50	3.50	0.39		ug/l	19.7
gamma-BHC (Lindane)	2	4.34	4.35	0.32		ug/l	
alpha-Chlordane	1 [a]	5.56	5.56	0.45		ug/l	27.8
alpha-Chlordane	2	6.85	6.85	0.34		ug/l	
gamma-Chlordane	1 [a]	5.38	5.38	0.77		ug/l	63.2
gamma-Chlordane	2	6.62	6.62	0.40		ug/l	
Dieldrin	1 [a]	6.08	6.08	0.42		ug/l	10.0
Dieldrin	2	7.40	7.40	0.38		ug/l	
4,4'-DDD	1 [a]	6.57	6.57	0.39		ug/l	16.7
4,4'-DDD	2	8.08	8.08	0.33		ug/l	
4,4'-DDE	1 [a]	5.69	5.69	0.37		ug/l	12.7
4,4'-DDE	2	7.10	7.11	0.42		ug/l	
4,4'-DDT	1 [a]	6.99	6.99	0.32		ug/l	17.1
4,4'-DDT	2	8.62	8.62	0.38		ug/l	
Endrin	1 [a]	6.42	6.42	0.42		ug/l	10.0
Endrin	2	7.92	7.92	0.38		ug/l	
Endosulfan sulfate	1 [a]	8.09	8.09	0.43		ug/l	20.5
Endosulfan sulfate	2	9.33	9.33	0.35		ug/l	
Endrin aldehyde	1 [a]	7.40	7.40	0.33		ug/l	12.9
Endrin aldehyde	2	8.85	8.86	0.29		ug/l	
Endrin ketone	1 [a]	8.55	8.55	0.43		ug/l	12.3
Endrin ketone	2	10.19	10.19	0.38		ug/l	
Endosulfan-I	1 [a]	5.74	5.74	0.38		ug/l	17.1
Endosulfan-I	2	6.95	6.95	0.32		ug/l	
Endosulfan-II	1 [a]	6.76	6.76	0.40		ug/l	13.3
Endosulfan-II	2	8.28	8.28	0.35		ug/l	
Heptachlor	1 [a]	3.82	3.82	0.37		ug/l	17.6
Heptachlor	2	4.97	4.97	0.31		ug/l	
Heptachlor epoxide	1 [a]	5.19	5.20	0.43		ug/l	115.3
Heptachlor epoxide	2	6.31	6.32	1.6	E	ug/l	
Methoxychlor	1 [a]	7.81	7.81	0.38		ug/l	2.7
Methoxychlor	2	9.83	9.83	0.37		ug/l	

(a) QC results reported from this column.

Semivolatile Surrogate Recovery Summary

Job Number: JC19759
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]
JC19759-1	4G67979.D	90	78	101	86
JC19759-2	4G67980.D	79	76	90	80
JC19759-3	4G67981.D	106	99	60	53
JC19759-4	4G67982.D	90	77	57	52
JC19759-5	4G67983.D	94	78	106	88
JC19759-6	4G67984.D	74	77	55	51
OP93694-BS1	4G67976.D	92	88	100	86
OP93694-MB1	4G67975.D	91	87	111	94
OP93694-MS	4G67977.D	83	65	84	62
OP93694-MSD	4G67978.D	109	85	113	82

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

GC Surrogate Retention Time Summary

Job Number: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1782-CC1778	**Injection Date:**	05/06/16
Lab File ID:	4G67973.D	**Injection Time:**	14:57
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.59	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
OP93694-MB1	4G67975.D	05/06/16	15:27	2.58	3.10	10.24	11.65
OP93694-BS1	4G67976.D	05/06/16	15:43	2.58	3.10	10.25	11.64
OP93694-MS	4G67977.D	05/06/16	15:58	2.58	3.10	10.24	11.64
OP93694-MSD	4G67978.D	05/06/16	16:13	2.59	3.10	10.24	11.64
JC19759-1	4G67979.D	05/06/16	16:28	2.59	3.10	10.24	11.64
JC19759-2	4G67980.D	05/06/16	16:43	2.59	3.10	10.24	11.64
JC19759-3	4G67981.D	05/06/16	16:58	2.59	3.10	10.24	11.64
JC19759-4	4G67982.D	05/06/16	17:13	2.59	3.10	10.24	11.64
JC19759-5	4G67983.D	05/06/16	17:29	2.59	3.10	10.24	11.64
JC19759-6	4G67984.D	05/06/16	17:44	2.58	3.10	10.24	11.64
ZZZZZZ	4G67985.D	05/06/16	17:59	2.59	3.10	10.24	11.64
ZZZZZZ	4G67986.D	05/06/16	18:14	2.58	3.10	10.25	11.64
ZZZZZZ	4G67987.D	05/06/16	18:29	2.59	3.10	10.25	11.64
ZZZZZZ	4G67988.D	05/06/16	18:44	2.59	3.10	10.25	11.65
ZZZZZZ	4G67989.D	05/06/16	18:59	2.59	3.10	10.25	11.64
OP93657-LB28	4G67990.D	05/06/16	19:15	2.60	3.11	10.25	11.64
OP93657-LB29	4G67991.D	05/06/16	19:30	2.59	3.10	10.25	11.65
OP93657-MS	4G67992.D	05/06/16	19:45	2.60	3.10	10.25	11.64
OP93657-LS15	4G67992.D	05/06/16	19:45	2.60	3.10	10.25	11.64
OP93657-MSD	4G67993.D	05/06/16	20:00	2.60	3.10	10.25	11.64

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JC19759
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: JC19759 **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: JC19759 **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: JC19759 **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: JC19759
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G4G1778-ICV1778
Lab FileID: 4G67843.D

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\msdchem\1\DATA\4G1778\4g67843.D\ECD1A.ch  Vial: 14
 Signal #2 : C:\msdchem\1\DATA\4G1778\4g67843.D\ECD2B.ch
 Acq On    :  2 May 2016   5:12 pm                    Operator: dharas
 Sample    : icv1778-25                               Inst    : GC4G
 Misc      : op93464,g4g1778,100,,,10,1               Multiplr: 1.00
 IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

 Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
 Title        : PEST/PCB
 Last Update  : Tue May 03 15:20:09 2016
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 200%

        Compound                AvgRF   CCRF      %Dev Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 I   1-bromo-2-nitrobenzene   1.000   1.000      0.0  110   0.00    1.77- 1.83
22     Mirex                    0.777   0.802     -3.2  115   0.00    7.97- 8.03

*****  Signal #2   *****

 1 I   1-bromo-2-nitrobenzene   1.000   1.000      0.0  111   0.00    2.05- 2.11
22     Mirex                    0.627   0.642     -2.4  119   0.00   10.13-10.19

---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    4g67836.D  4PST1778.M       Tue May 03 15:57:41 2016   RPT1
```

8.9.3

8

Initial Calibration Verification

Job Number: JC19759 **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: JC19759 **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: JC19759 **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: JC19759 **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

8.9.6

Continuing Calibration Summary

Job Number: JC19759 **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: JC19759 **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

8.9.7

8

GC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/16 07:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67979.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:28 pm
Operator : dharas
Sample : jc19759-1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:36:33 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...	1.798	2.072	402.1E6	370.6E6	50.000	50.000
25) I 1-bromo-2...	1.798	2.072	402.1E6	370.6E6	50.000	50.000
31) I 1-bromo-2...	1.798	2.072	402.1E6	370.6E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.585	3.102	248.6E6	202.4E6	35.850m	31.006m
Spiked Amount	40.000	Range	30 - 150	Recovery	= 89.63%	77.52%
24) SA Decachlor...	10.243	11.644	264.7E6	159.6E6	40.512	34.481
Spiked Amount	40.000			Recovery	= 101.28%	86.20%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

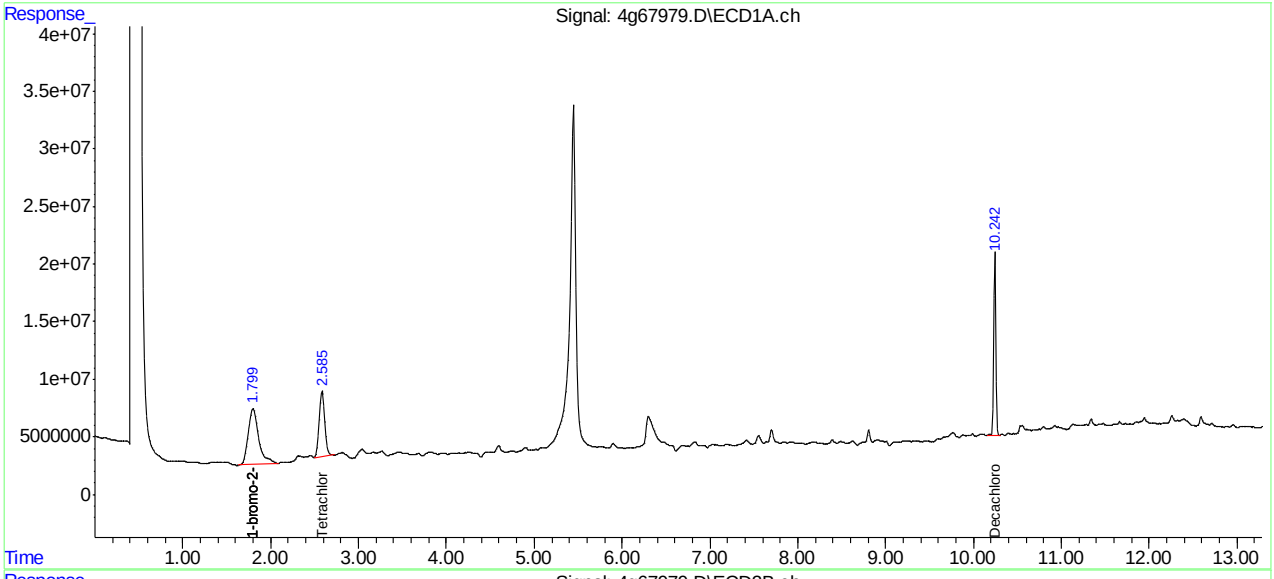
9.1.1
9

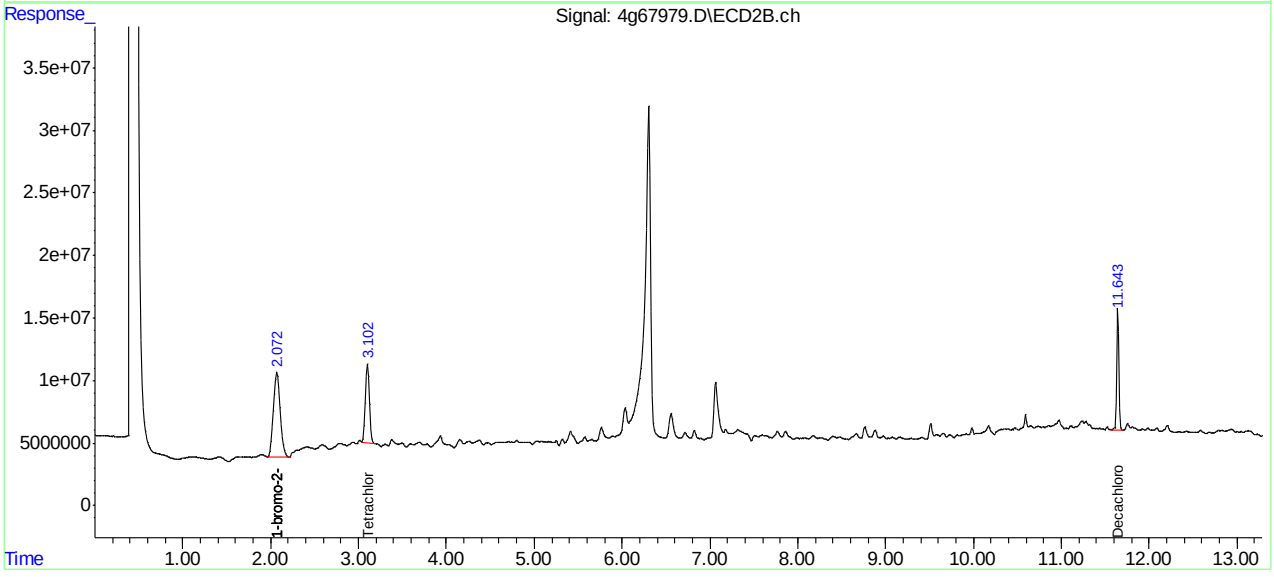
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67979.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:28 pm
Operator : dharas
Sample : jc19759-1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:36:33 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:	JC19759-1	**Method:**	SW846 8081B
Lab FileID:	4G67979.D	**Analyst approved:**	05/06/16 18:41 Dhara Saparia
Injection Time:	05/06/16 16:28	**Supervisor approved:**	05/09/16 07:00 Gwendolyn Burns

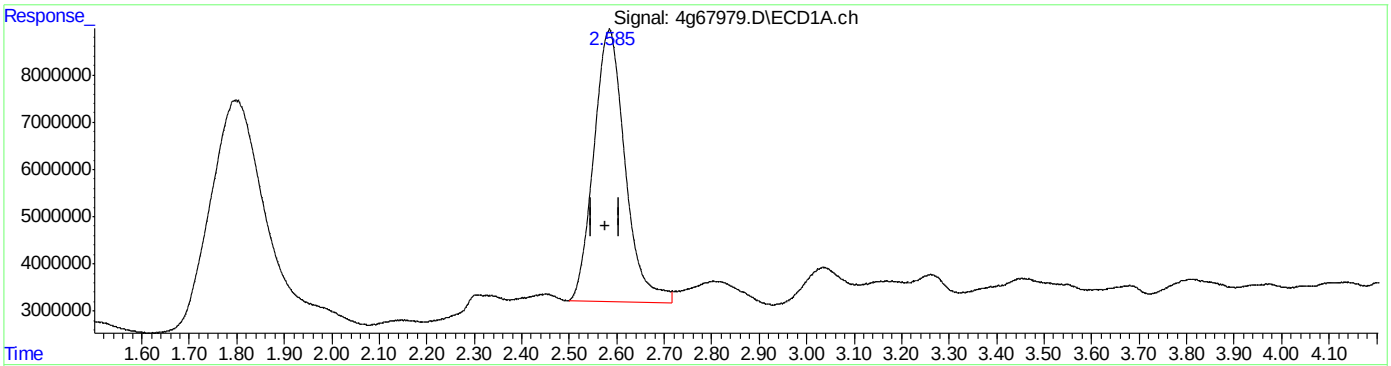
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	3.10	Poorly defined baseline

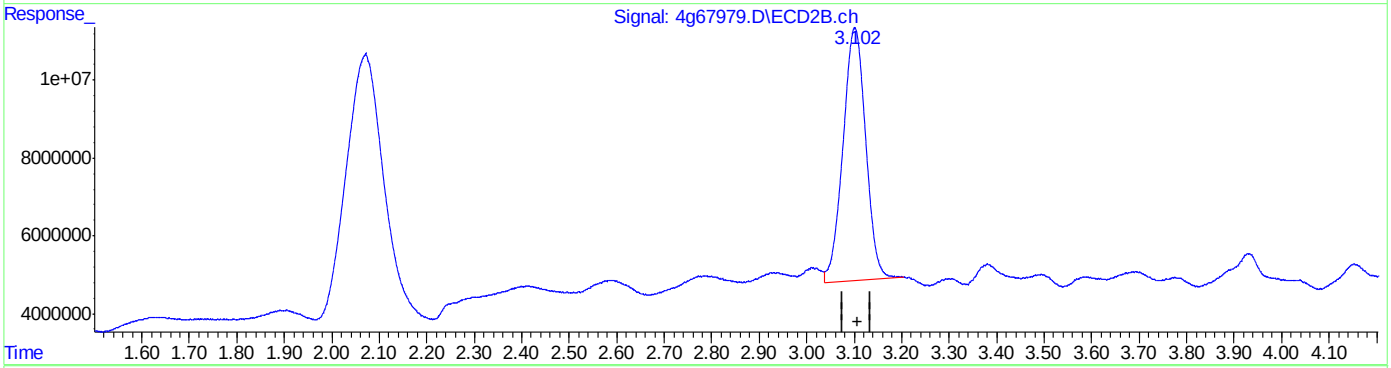
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67979.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:28 pm
Operator : dharas
Sample : jc19759-1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:35:07 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)
2.585min 38.162 PPB
response 264603099

(2) Tetrachloro-m-xylene #2 (SAB)
3.101min 33.122 PPB
response 216167893

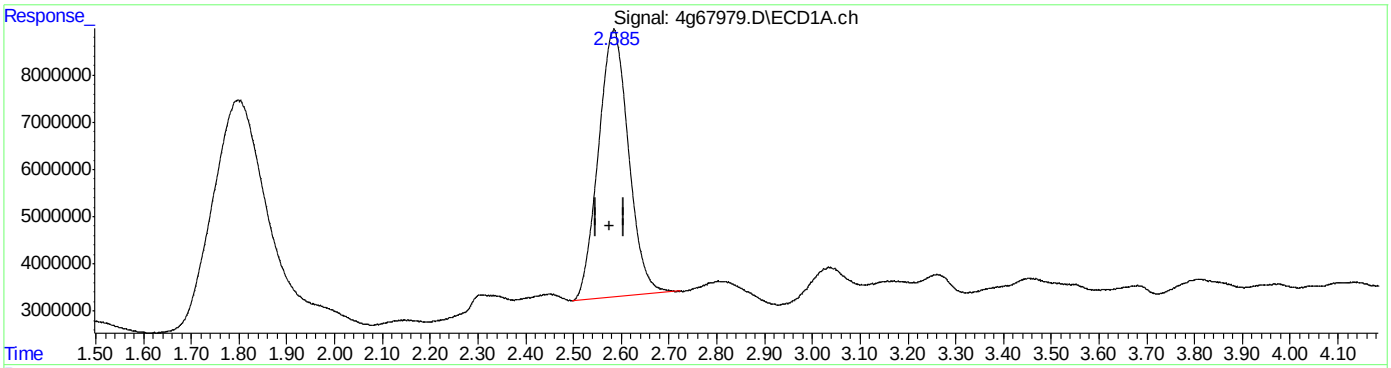
(+) = Expected Retention Time

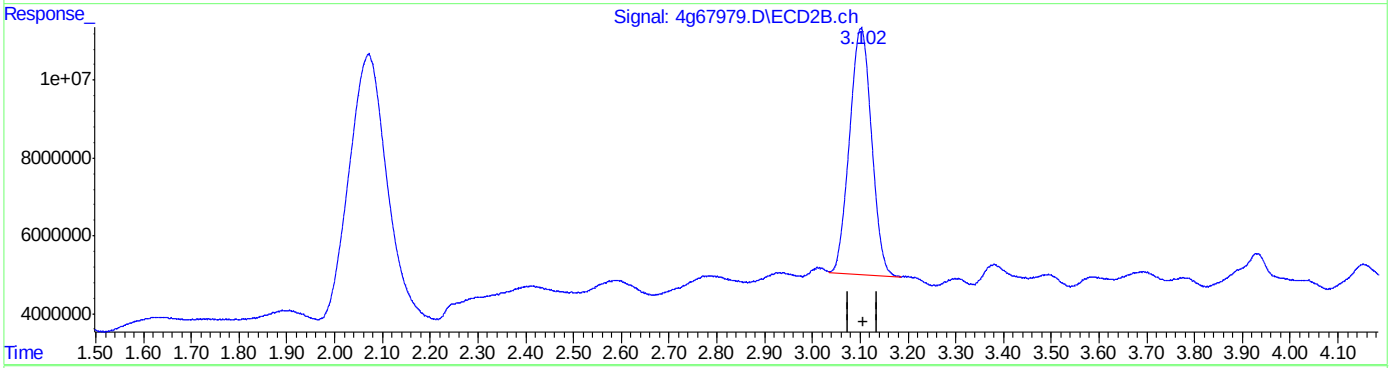
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67979.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:28 pm
Operator : dharas
Sample : jc19759-1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:35:07 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)
2.585min 35.850 PPB m
response 248570274

(2) Tetrachloro-m-xylene #2 (SAB)
3.102min 31.006 PPB m
response 202358700

(+) = Expected Retention Time
4PST1778.M Fri May 06 18:35:43 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/16 07:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67980.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:43 pm
Operator : dharas
Sample : jc19759-2
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:37:42 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...	1.804	2.071	438.2E6	382.9E6	50.000	50.000
25) I	1-bromo-2...	1.804	2.071	438.2E6	382.9E6	50.000	50.000
31) I	1-bromo-2...	1.804	2.071	438.2E6	382.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.588	3.104	239.9E6	204.1E6	31.758	30.267m
Spiked Amount		40.000	Range	30 - 150	Recovery	= 79.39%	75.67%
24) SA	Decachlor...	10.244	11.644	256.1E6	152.5E6	35.966	31.892
Spiked Amount		40.000			Recovery	= 89.92%	79.73%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

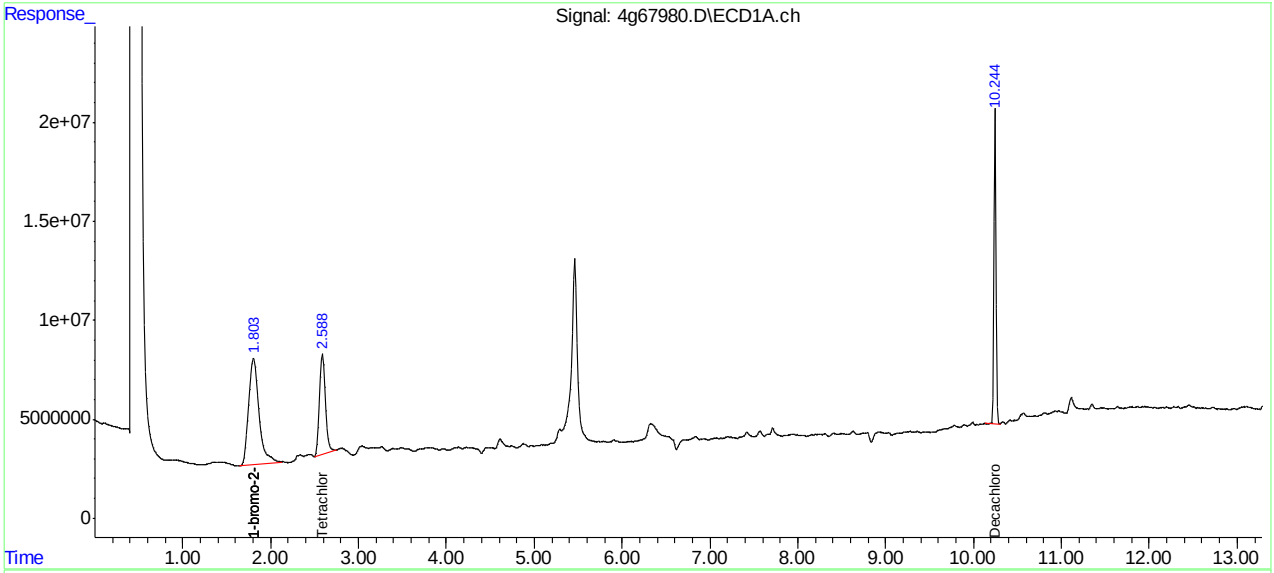
SGS ACCUTEST JC19759

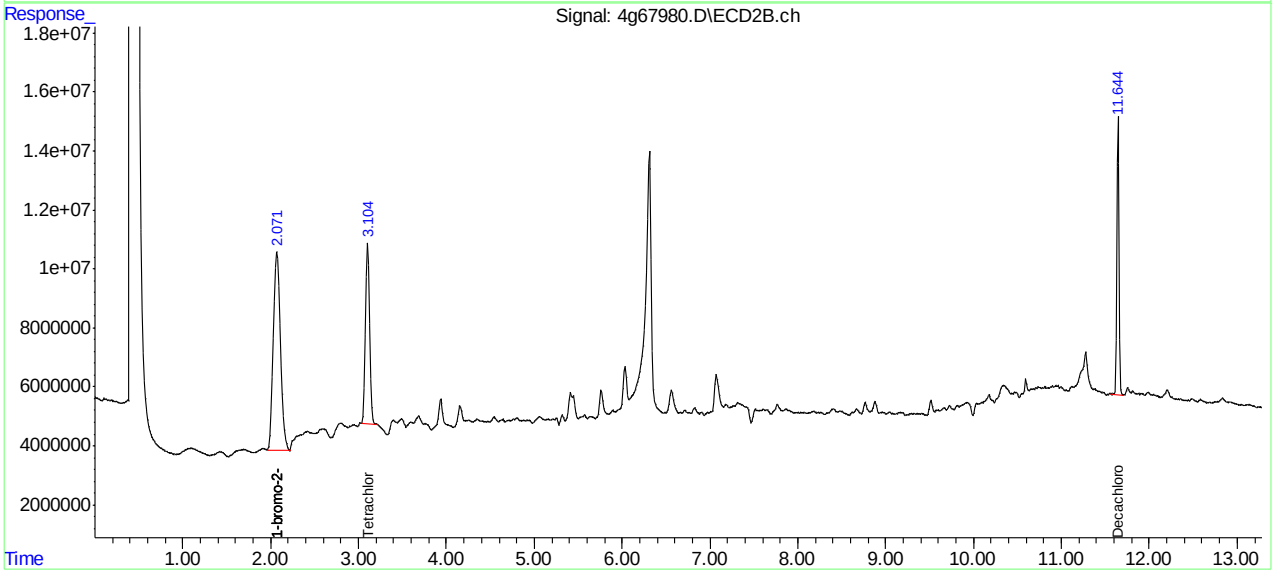
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67980.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:43 pm
Operator : dharas
Sample : jc19759-2
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:37:42 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:	JC19759-2	**Method:**	SW846 8081B
Lab FileID:	4G67980.D	**Analyst approved:**	05/06/16 18:41 Dhara Saparia
Injection Time:	05/06/16 16:43	**Supervisor approved:**	05/09/16 07:00 Gwendolyn Burns

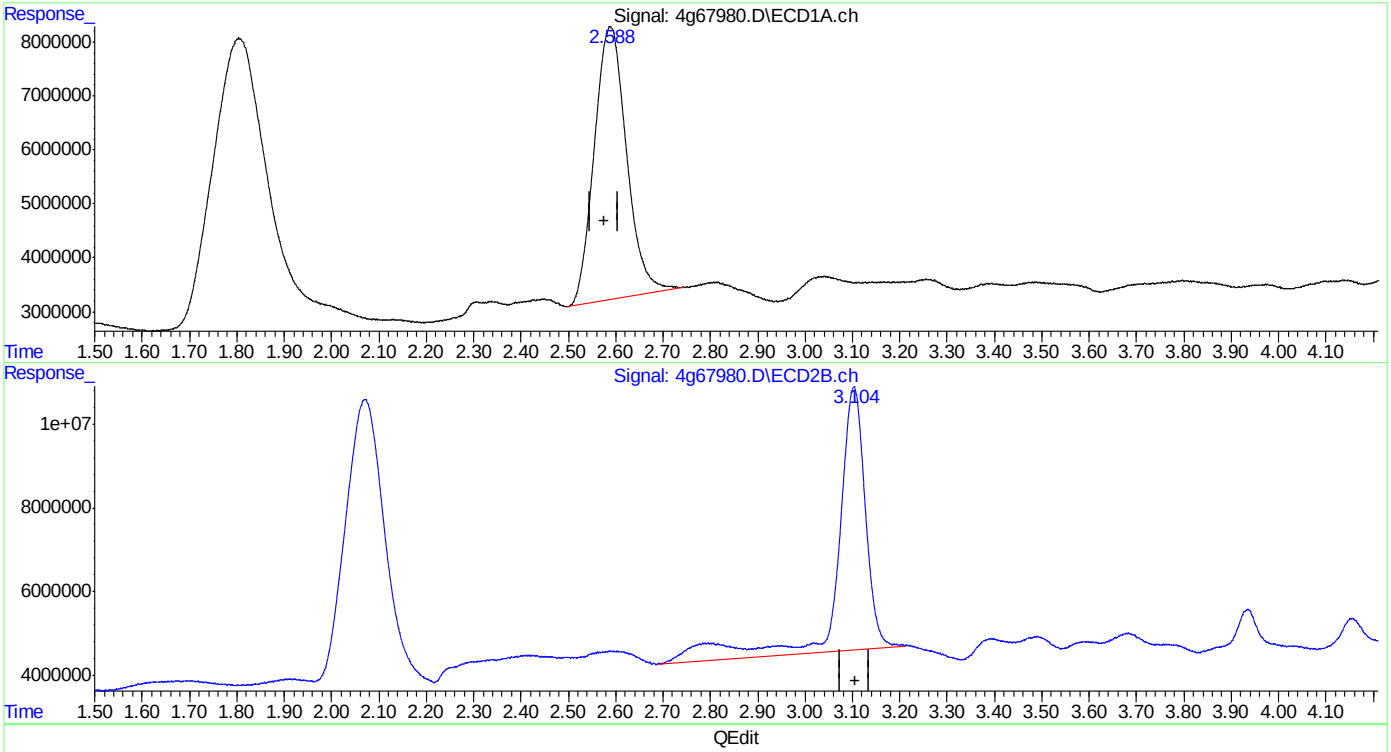
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	2	3.10	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67980.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:43 pm
Operator : dharas
Sample : jc19759-2
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:36:48 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



(2) Tetrachloro-m-xylene (SAB)
2.588min 31.758 PPB
response 239940492

(2) Tetrachloro-m-xylene #2 (SAB)
3.103min 38.738 PPB
response 261233002

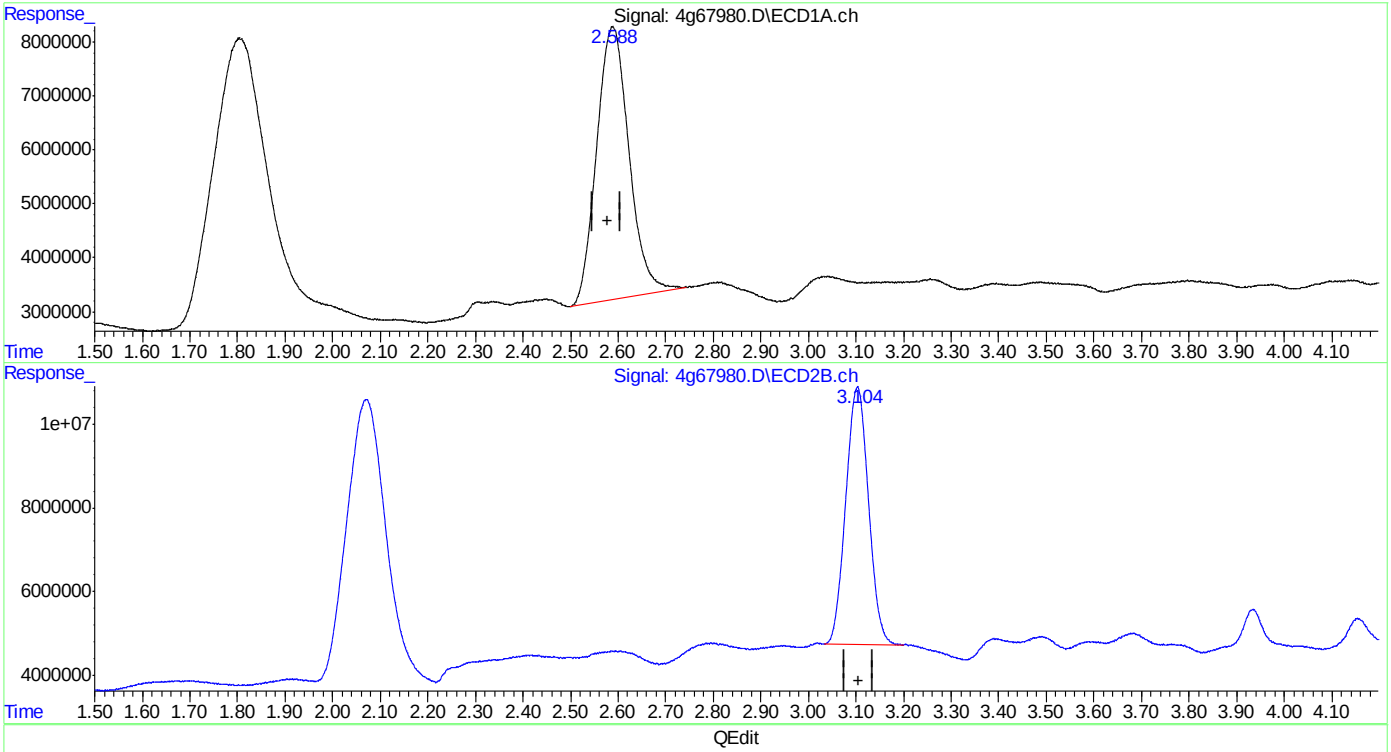
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67980.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:43 pm
Operator : dharas
Sample : jc19759-2
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:36:48 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)
2.588min 31.758 PPB
response 239940492

(2) Tetrachloro-m-xylene #2 (SAB)
3.104min 30.267 PPB m
response 204105809

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/16 07:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67981.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:58 pm
Operator : dharas
Sample : jc19759-3
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:39:28 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...	1.797	2.068	438.4E6	385.5E6	50.000	50.000
25) I	1-bromo-2...	1.797	2.068	438.4E6	385.5E6	50.000	50.000
31) I	1-bromo-2...	1.797	2.068	438.4E6	385.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.587	3.102	319.1E6	268.5E6	42.211m	39.545m
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 105.53%	98.86%
24) SA	Decachlor...	10.245	11.644	169.8E6	102.3E6	23.840m	21.250
	Spiked Amount	40.000			Recovery	= 59.60%	53.13%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

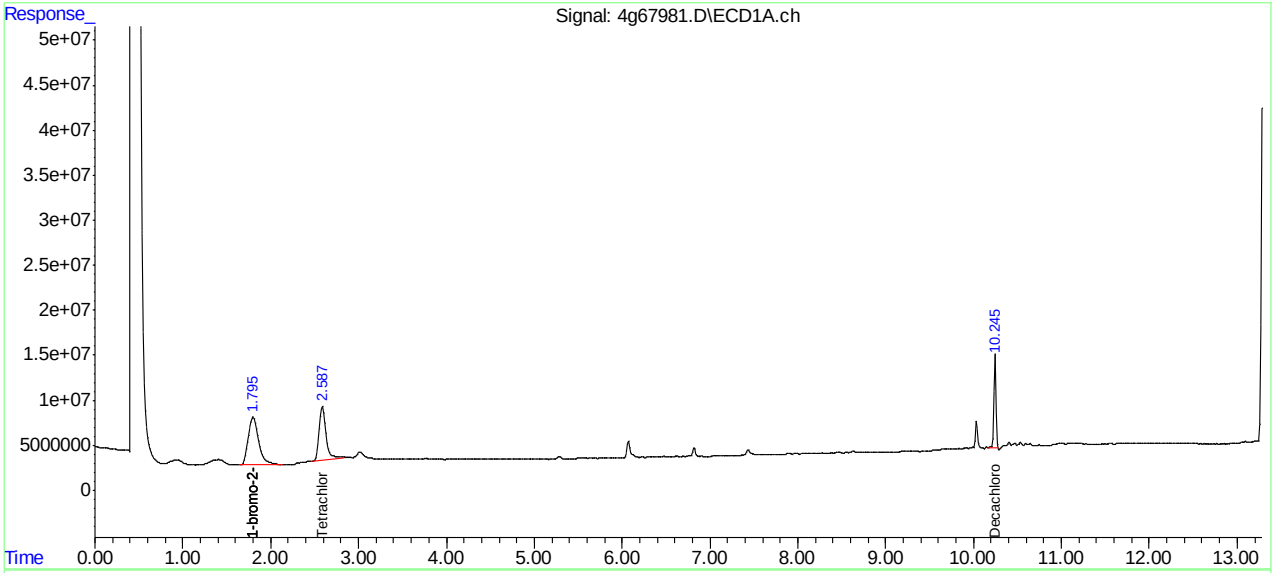
9.1.3
9

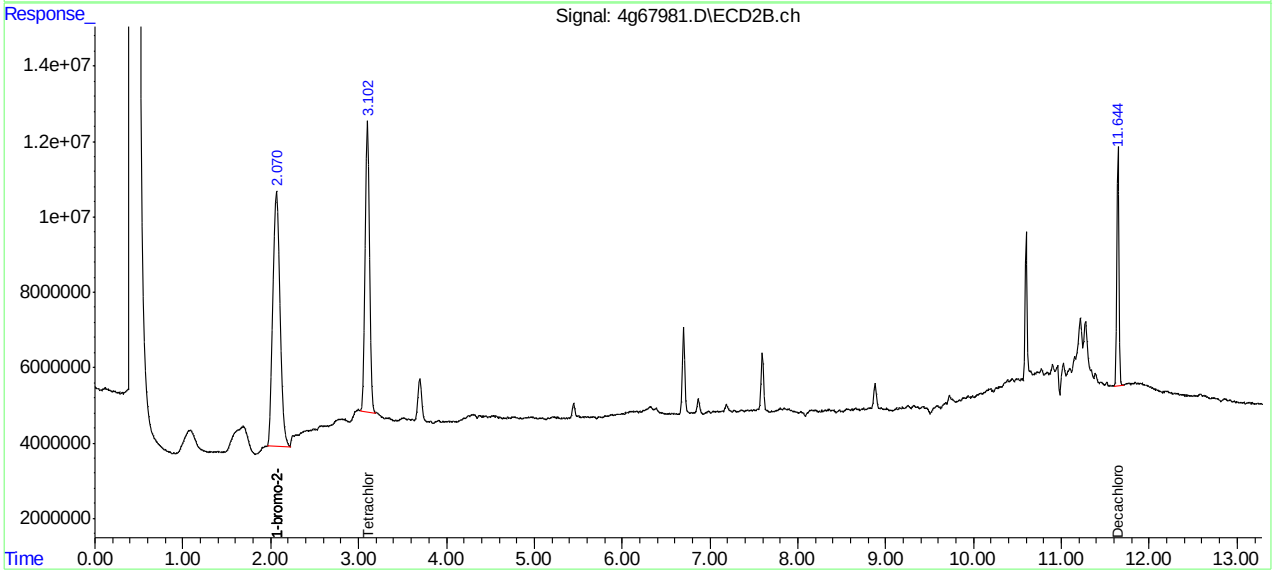
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67981.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:58 pm
Operator : dharas
Sample : jc19759-3
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:39:28 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:	JC19759-3	**Method:**	SW846 8081B
Lab FileID:	4G67981.D	**Analyst approved:**	05/06/16 18:41 Dhara Saparia
Injection Time:	05/06/16 16:58	**Supervisor approved:**	05/09/16 07:00 Gwendolyn Burns

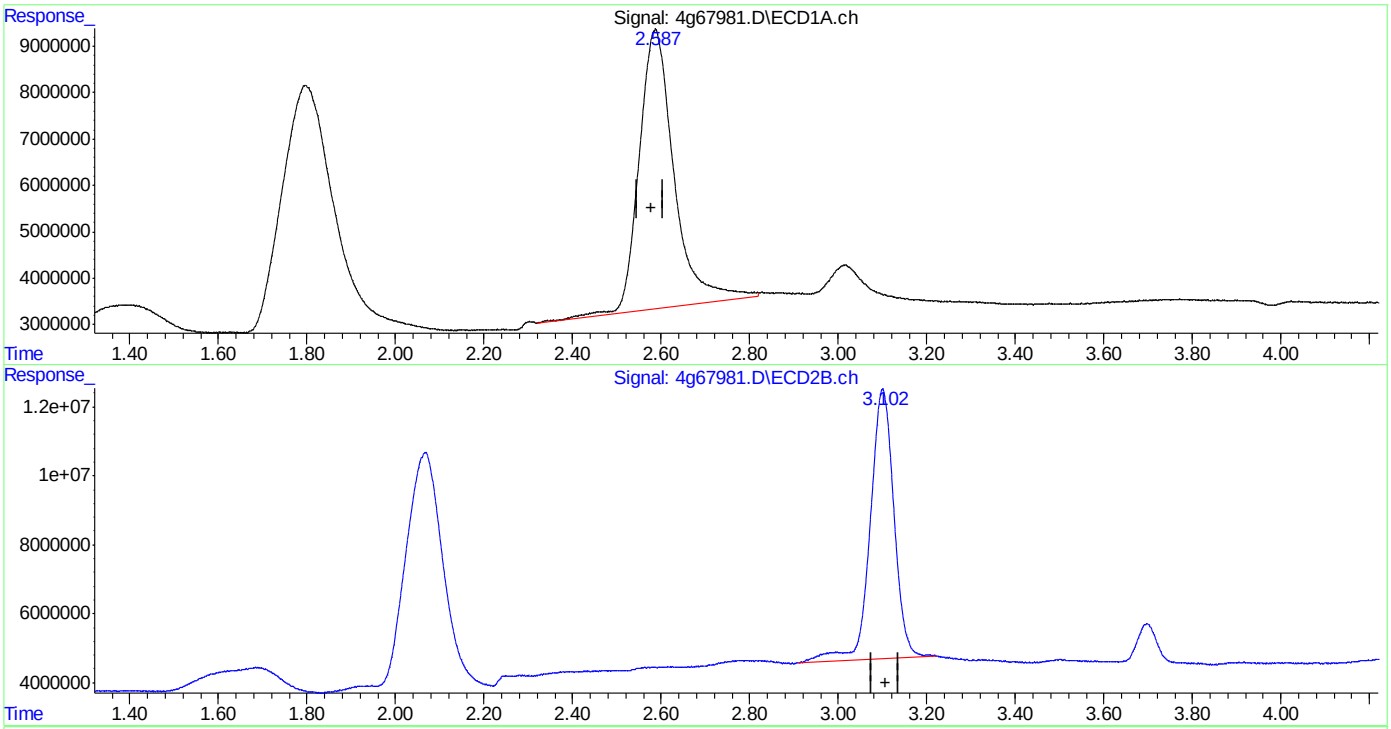
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	3.10	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.24	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67981.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:58 pm
Operator : dharas
Sample : jc19759-3
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:38:18 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)
2.588min 43.614 PPB
response 329697352

(2) Tetrachloro-m-xylene #2 (SAB)
3.100min 43.069 PPB
response 292386293

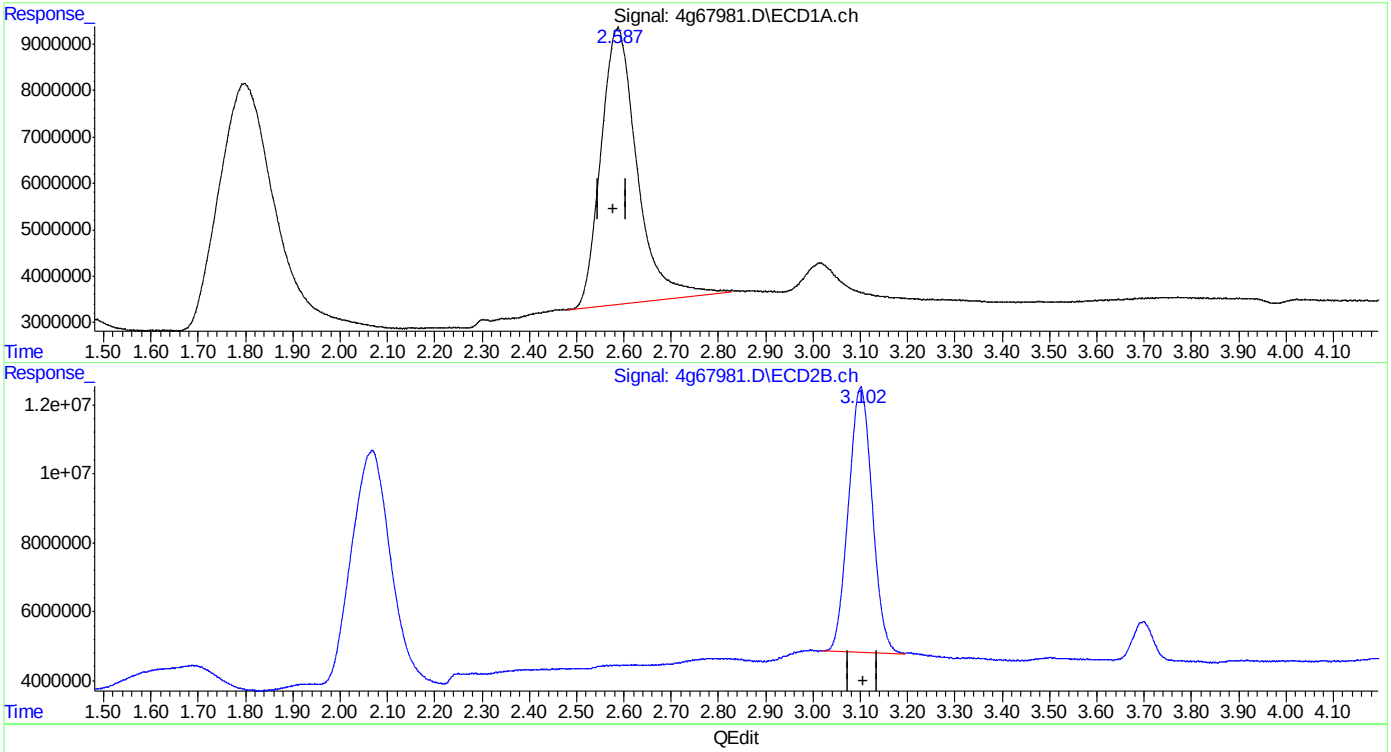
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:38:25 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67981.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:58 pm
Operator : dharas
Sample : jc19759-3
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:38:18 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)
2.587min 42.211 PPB m
response 319089789

(2) Tetrachloro-m-xylene #2 (SAB)
3.102min 39.545 PPB m
response 268460553

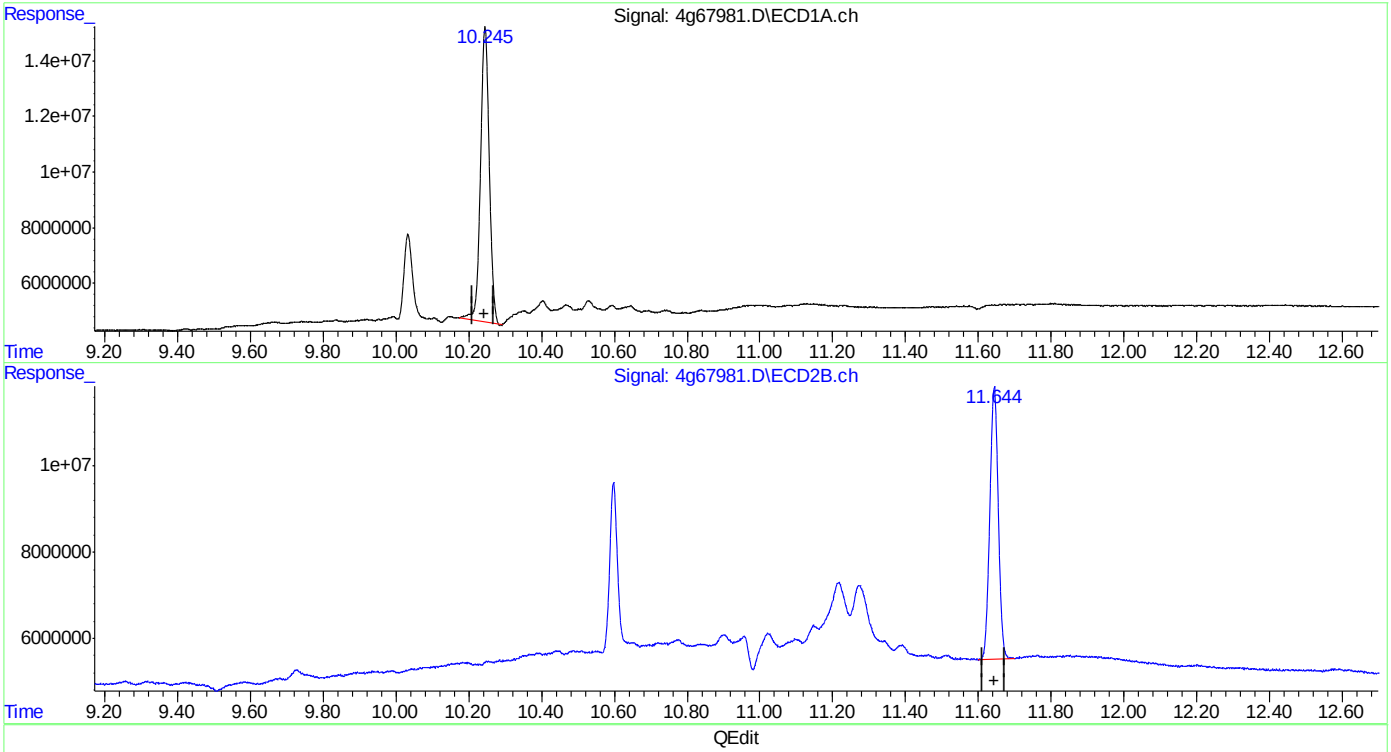
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67981.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:58 pm
Operator : dharas
Sample : jc19759-3
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:38:18 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

(24) Decachlorobiphenyl (SA)
10.245min 24.906 PPB
response 177420755

(24) Decachlorobiphenyl #2 (SA)
11.644min 21.250 PPB
response 102308505

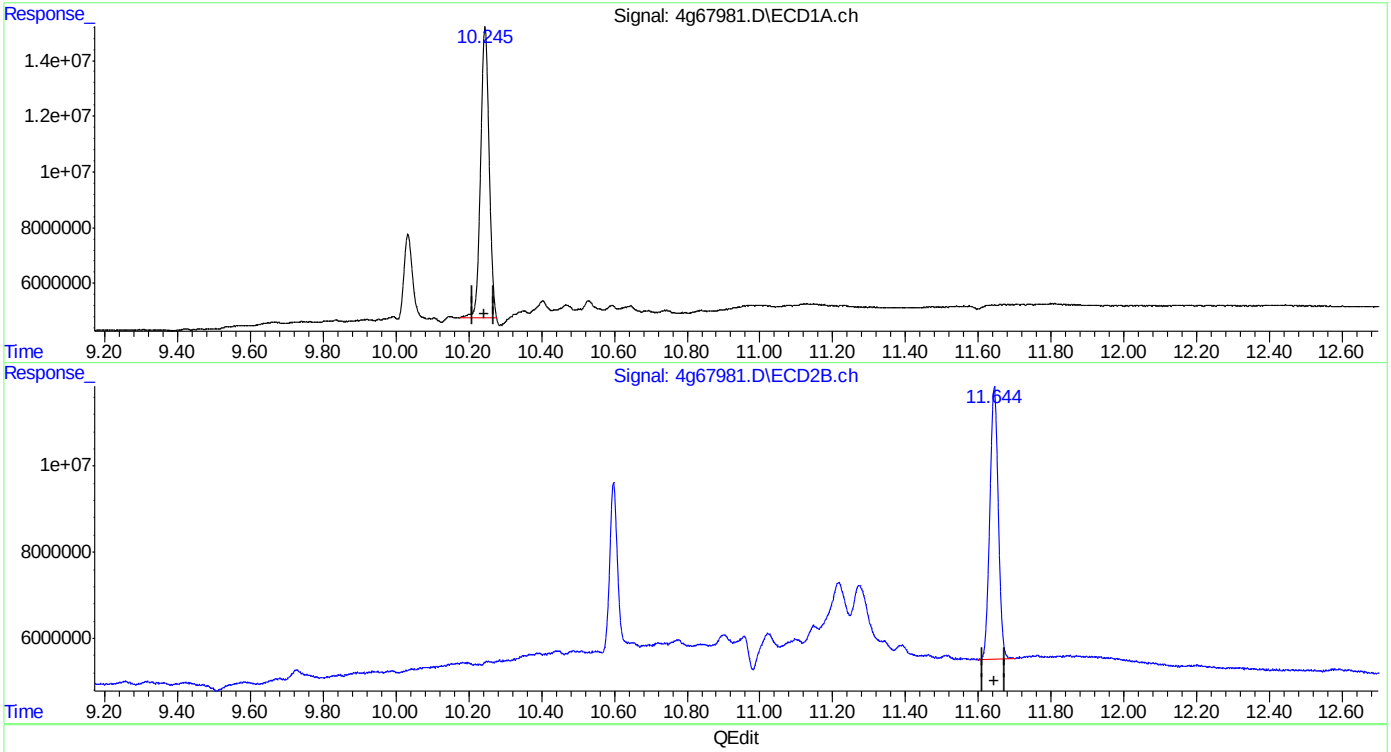
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67981.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:58 pm
Operator : dharas
Sample : jc19759-3
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:38:18 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

(24) Decachlorobiphenyl (SA)
10.245min 23.840 PPB m
response 169823876

(24) Decachlorobiphenyl #2 (SA)
11.644min 21.250 PPB
response 102308505

(+) = Expected Retention Time
4PST1778.M Fri May 06 18:39:12 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/16 07:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67982.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:13 pm
Operator : dharas
Sample : jc19759-4
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:41:36 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...	1.804	2.070	482.5E6	421.5E6	50.000	50.000
25) I 1-bromo-2...	1.804	2.070	482.5E6	421.5E6	50.000	50.000
31) I 1-bromo-2...	1.804	2.070	482.5E6	421.5E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.594f	3.102	300.0E6	229.3E6	36.060m	30.886
Spiked Amount	40.000	Range	30 - 150	Recovery	= 90.15%	77.22%
24) SA Decachlor...	10.244	11.644	178.3E6	109.3E6	22.741m	20.752
Spiked Amount	40.000			Recovery	= 56.85%	51.88%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

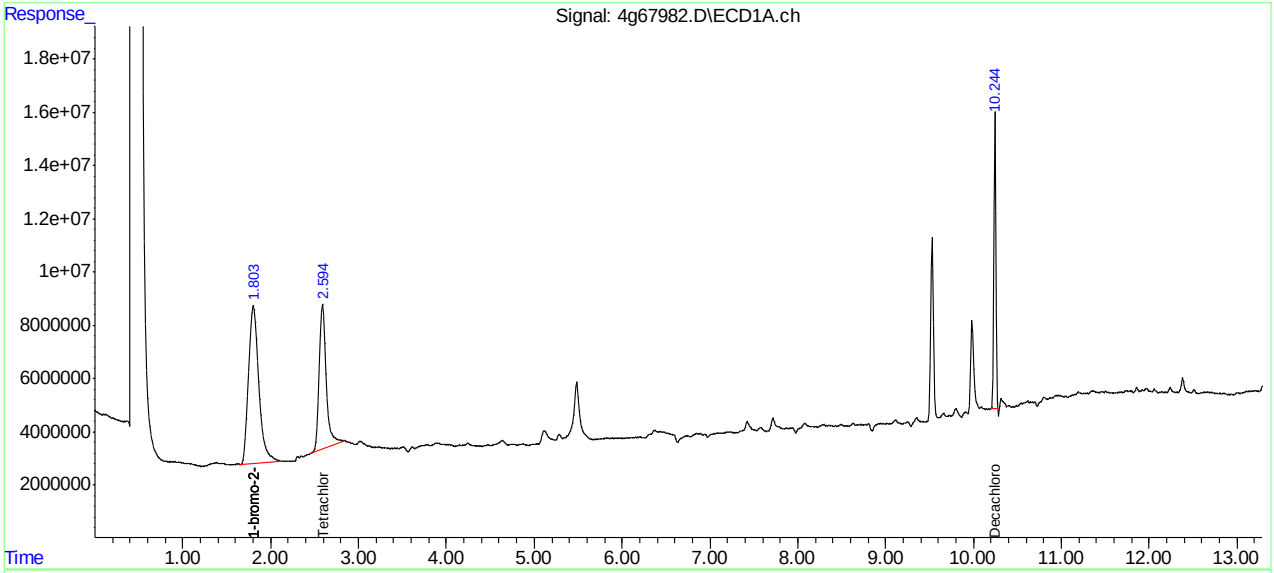
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

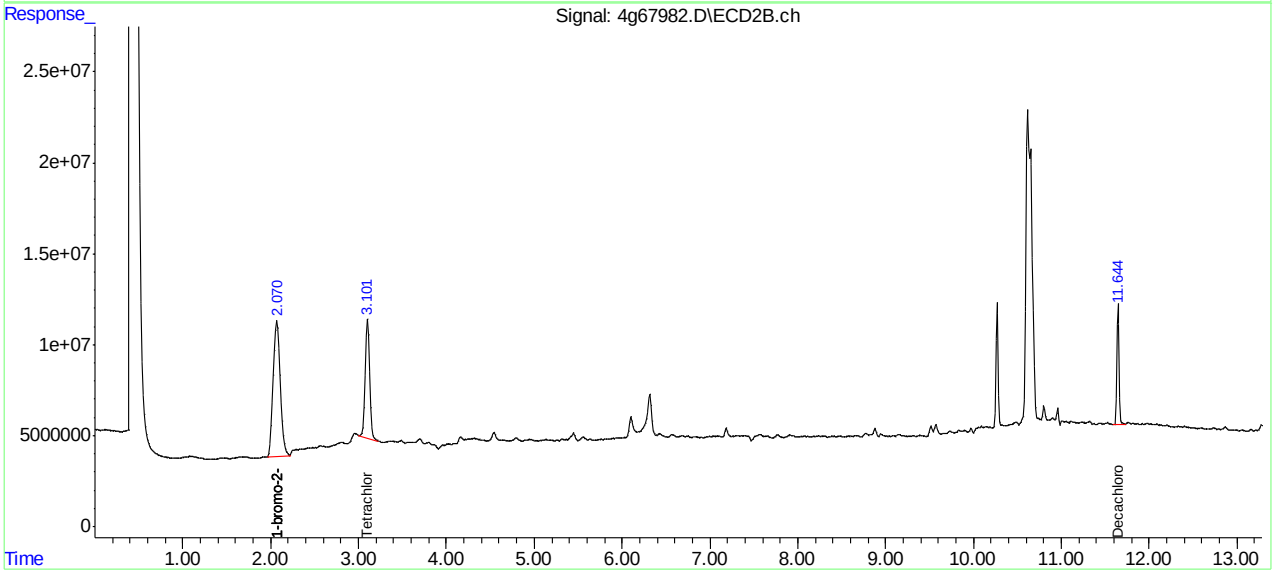
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67982.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:13 pm
Operator : dharas
Sample : jc19759-4
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:41:36 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:	JC19759-4	**Method:**	SW846 8081B
Lab FileID:	4G67982.D	**Analyst approved:**	05/06/16 18:41 Dhara Saparia
Injection Time:	05/06/16 17:13	**Supervisor approved:**	05/09/16 07:00 Gwendolyn Burns

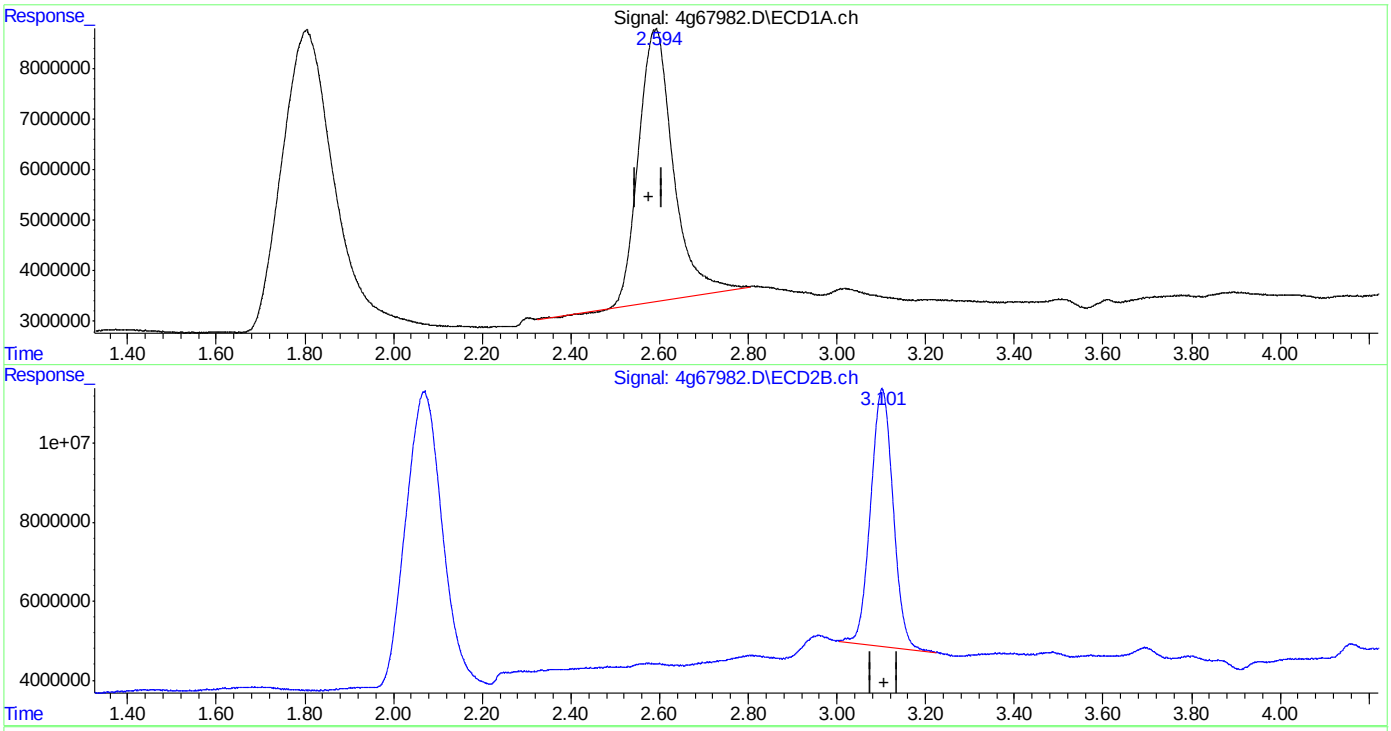
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.24	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67982.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:13 pm
Operator : dharas
Sample : jc19759-4
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:40:28 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)
2.593min 35.114 PPB
response 292124751

(2) Tetrachloro-m-xylene #2 (SAB)
3.102min 30.886 PPB
response 229307504

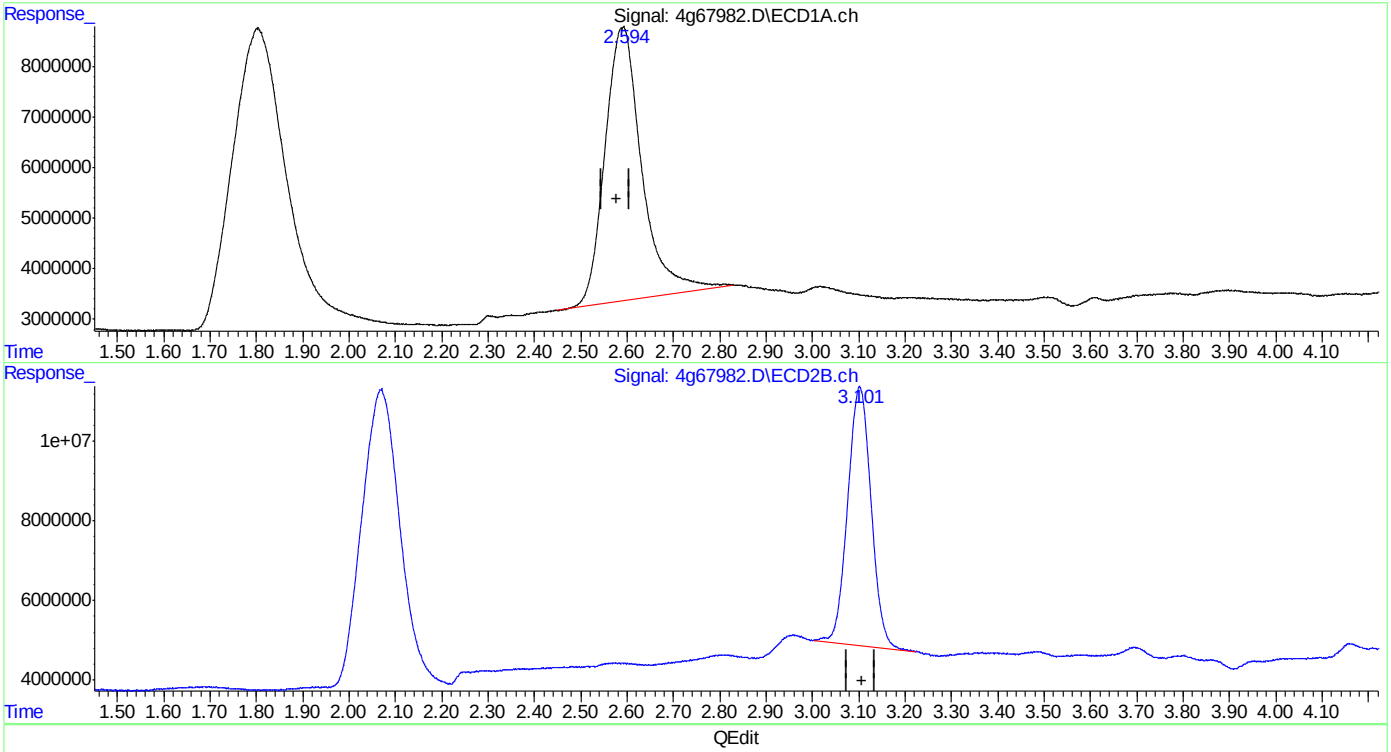
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:40:33 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67982.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:13 pm
Operator : dharas
Sample : jc19759-4
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:40:28 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)
2.594min 36.060 PPB m
response 299990745

(2) Tetrachloro-m-xylene #2 (SAB)
3.102min 30.886 PPB
response 229307504

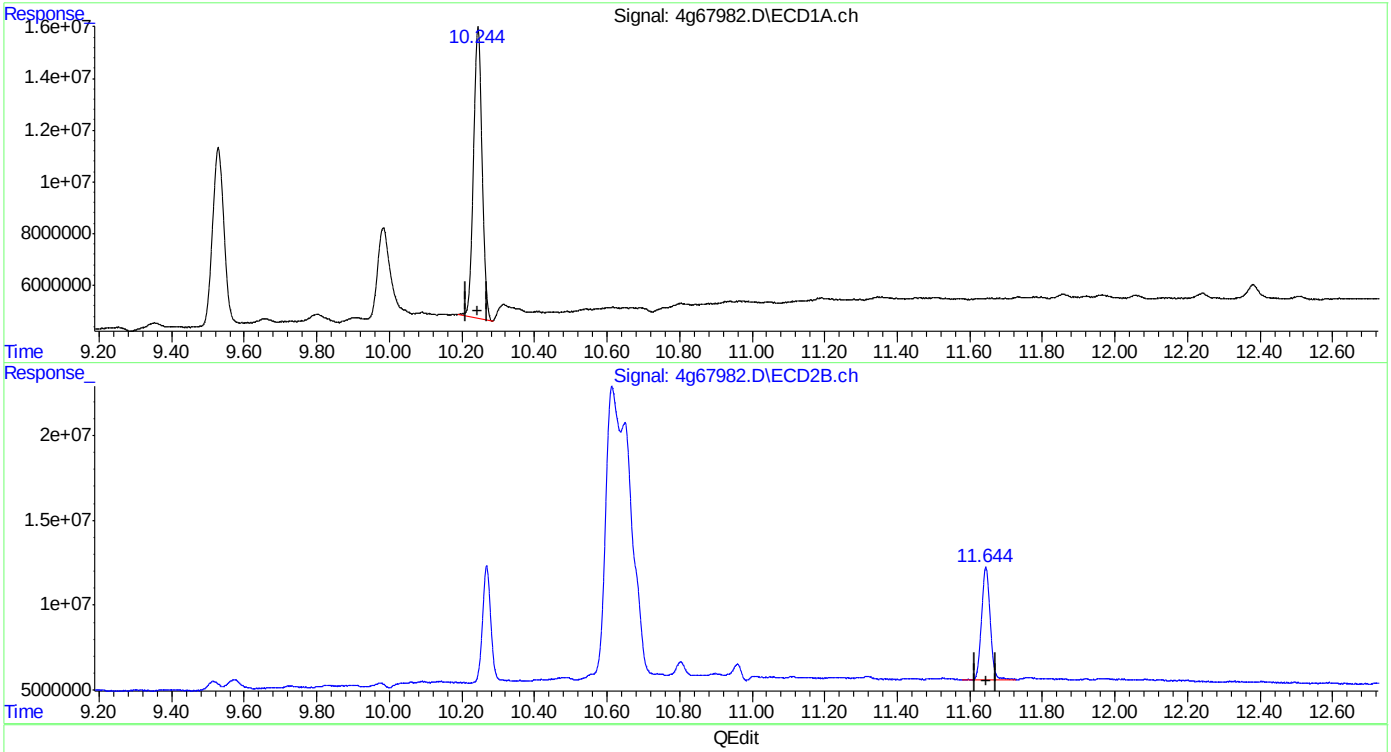
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:40:41 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67982.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:13 pm
Operator : dharas
Sample : jc19759-4
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:40:28 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



(24) Decachlorobiphenyl (SA)
10.244min 23.604 PPB
response 185048790

(24) Decachlorobiphenyl #2 (SA)
11.644min 20.752 PPB
response 109265433

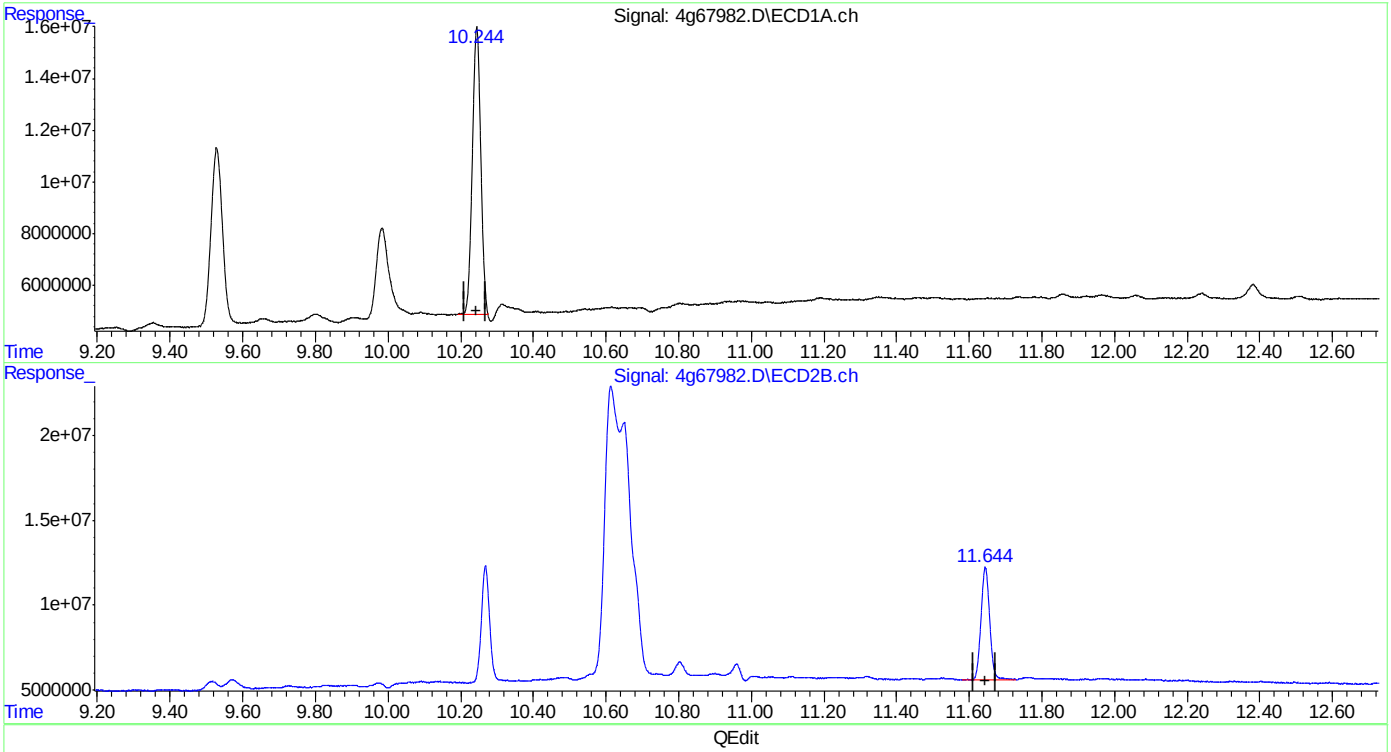
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:41:09 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67982.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:13 pm
Operator : dharas
Sample : jc19759-4
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:40:28 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



(24) Decachlorobiphenyl (SA)
10.244min 22.741 PPB m
response 178282696

(24) Decachlorobiphenyl #2 (SA)
11.644min 20.752 PPB
response 109265433

(+) = Expected Retention Time
4PST1778.M Fri May 06 18:41:19 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/16 07:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:29 pm
Operator : dharas
Sample : jc19759-5
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:28:07 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...	1.799	2.068	395.1E6	373.1E6	50.000	50.000
25) I	1-bromo-2...	1.799	2.068	395.1E6	373.1E6	50.000	50.000
31) I	1-bromo-2...	1.799	2.068	395.1E6	373.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.586	3.105	255.8E6	206.0E6	37.544m	31.354m
Spiked Amount		40.000	Range	30 - 150	Recovery	= 93.86%	78.38%
24) SA	Decachlor...	10.240	11.643	272.0E6	164.2E6	42.374m	35.238
Spiked Amount		40.000			Recovery	= 105.94%	88.09%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

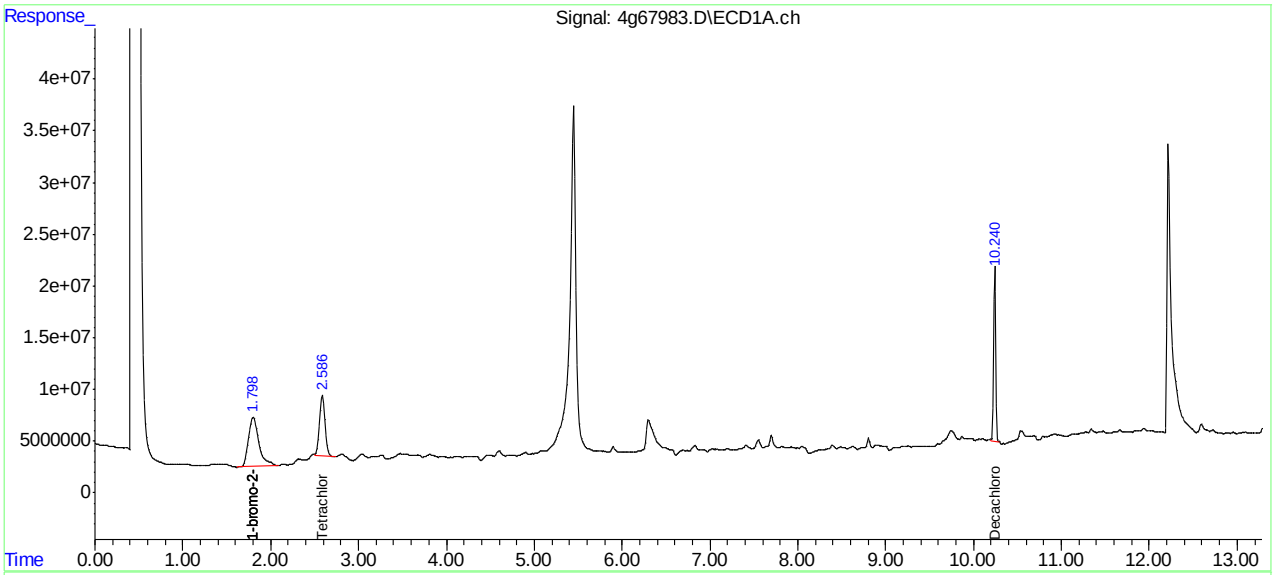
9.1.5
9

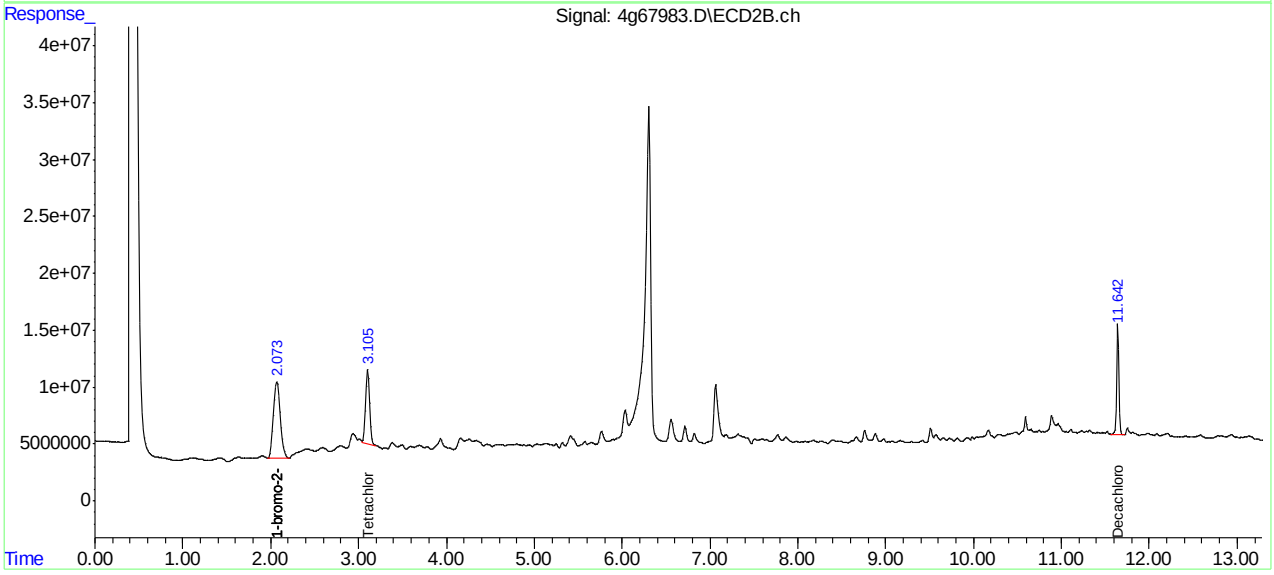
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:29 pm
Operator : dharas
Sample : jc19759-5
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:28:07 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:	JC19759-5	**Method:**	SW846 8081B
Lab FileID:	4G67983.D	**Analyst approved:**	05/07/16 16:59 Brittany Piercy
Injection Time:	05/06/16 17:29	**Supervisor approved:**	05/09/16 07:00 Gwendolyn Burns

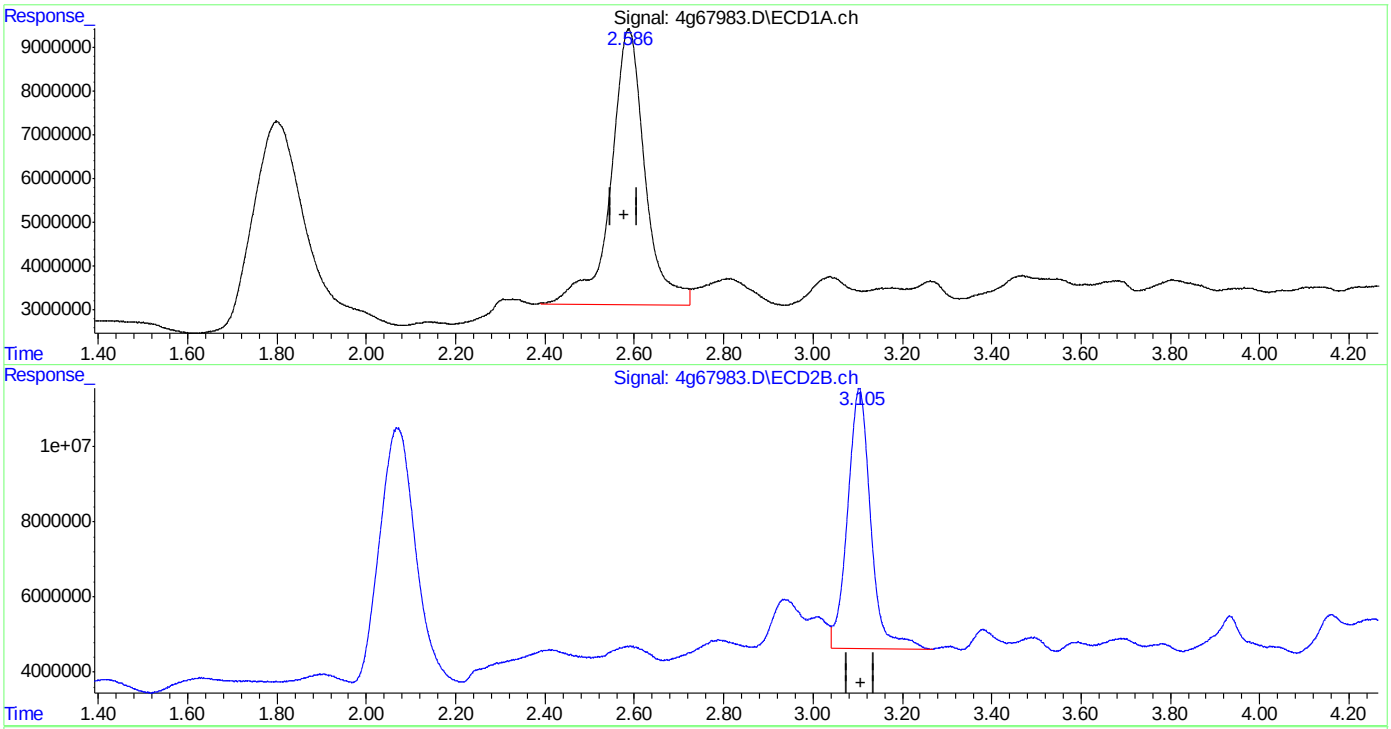
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
Tetrachloro-m-xylene	877-09-8	2	3.10	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.24	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:29 pm
Operator : dharas
Sample : jc19759-5
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:26:37 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)
2.587min 49.211 PPB
response 335258394

(2) Tetrachloro-m-xylene #2 (SAB)
3.104min 37.845 PPB
response 248700029

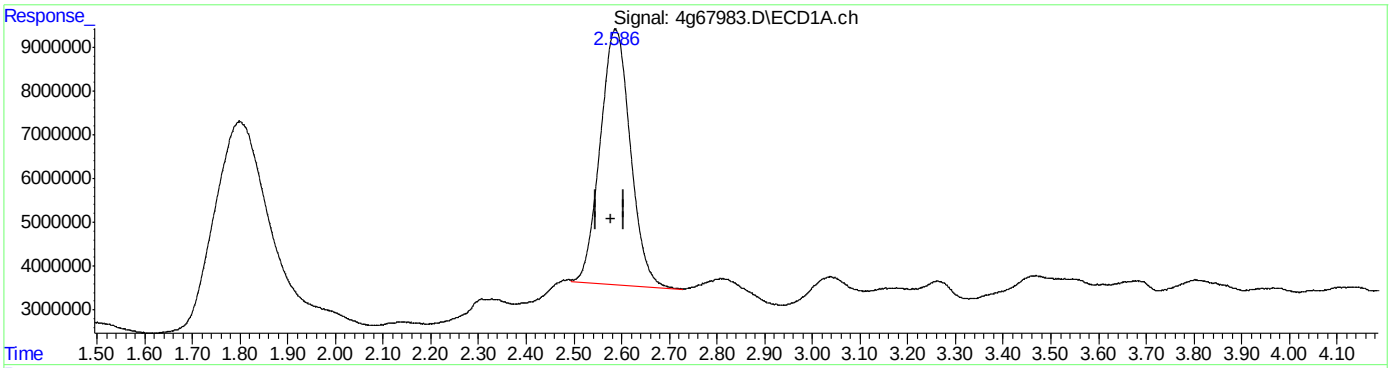
(+) = Expected Retention Time

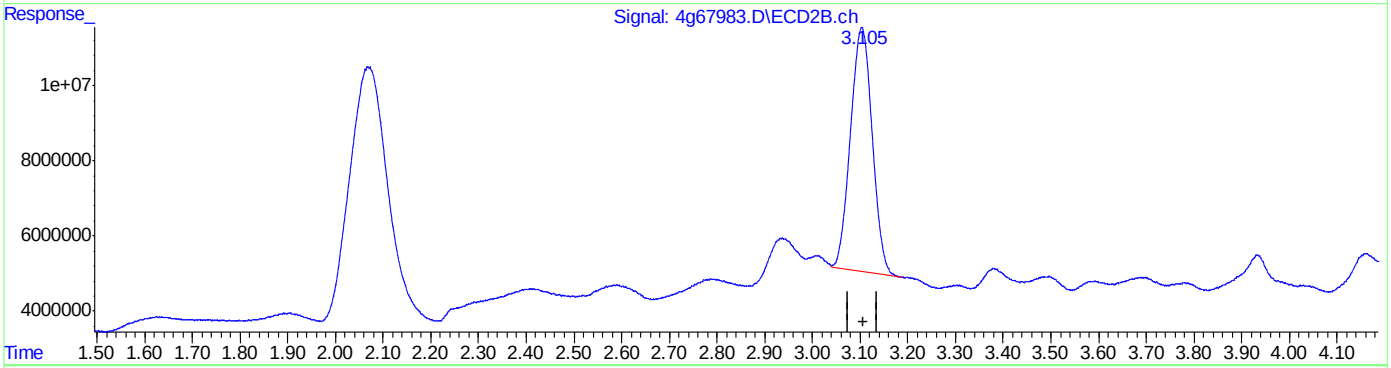
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:29 pm
Operator : dharas
Sample : jc19759-5
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:26:37 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)
2.586min 37.544 PPB m
response 255775471

(2) Tetrachloro-m-xylene #2 (SAB)
3.105min 31.354 PPB m
response 206044550

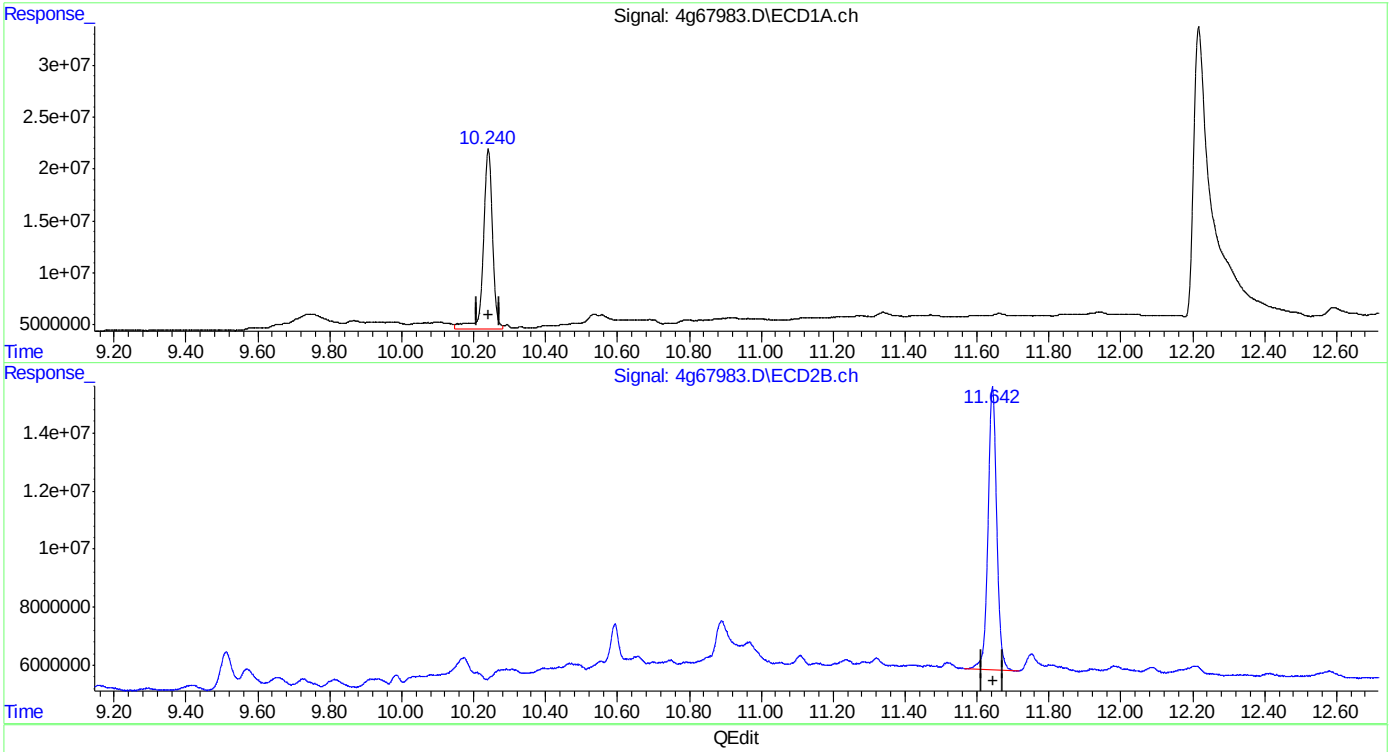
(+) = Expected Retention Time
4PST1778.M Sat May 07 16:26:56 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:29 pm
Operator : dharas
Sample : jc19759-5
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:26:37 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

(24) Decachlorobiphenyl (SA)
10.241min 47.720 PPB
response 306358012

(24) Decachlorobiphenyl #2 (SA)
11.643min 35.238 PPB
response 164228435

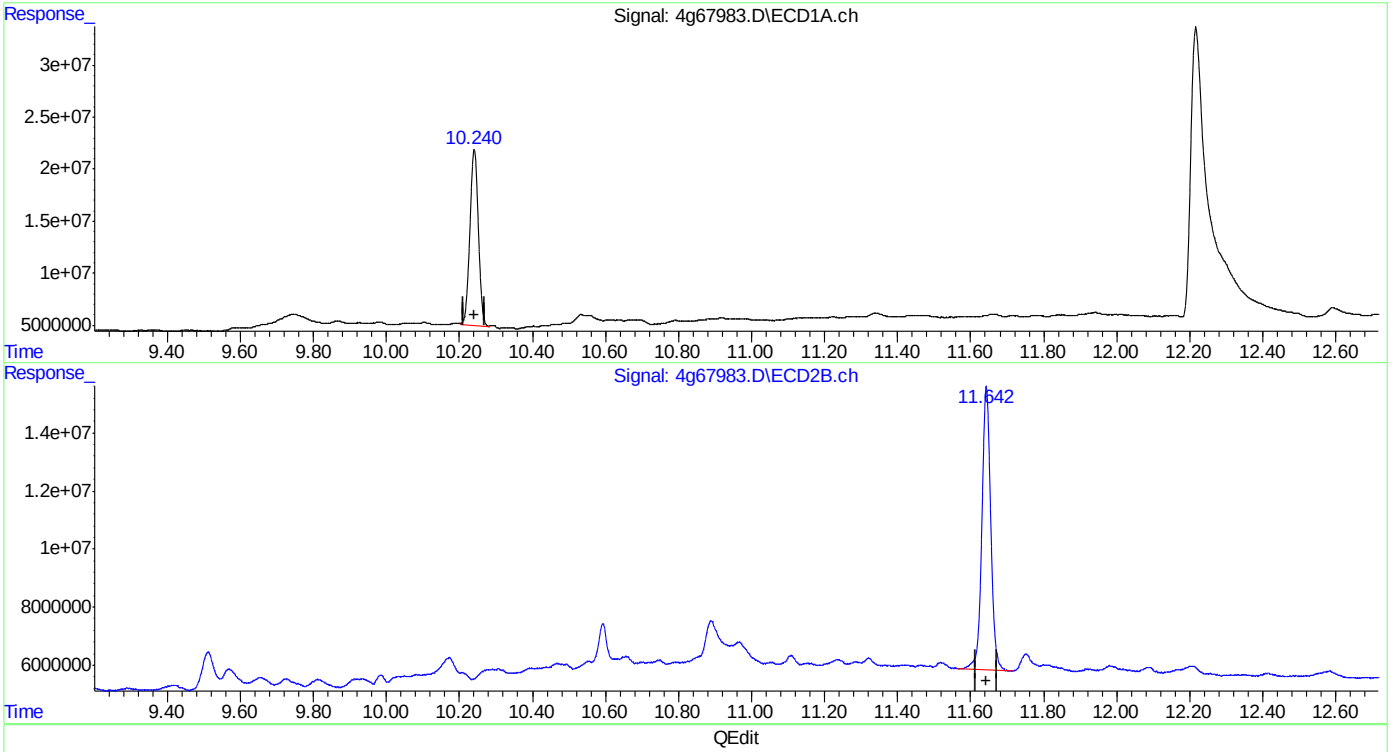
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:29 pm
Operator : dharas
Sample : jc19759-5
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:26:37 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

(24) Decachlorobiphenyl (SA)
10.240min 42.374 PPB m
response 272035258

(24) Decachlorobiphenyl #2 (SA)
11.643min 35.238 PPB
response 164228435

(+) = Expected Retention Time
4PST1778.M Sat May 07 16:27:53 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/16 07:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67984.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:44 pm
Operator : dharas
Sample : jc19759-6
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:29:45 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...	1.794	2.065	441.9E6	366.6E6	50.000	50.000
25) I	1-bromo-2...	1.794	2.065	441.9E6	366.6E6	50.000	50.000
31) I	1-bromo-2...	1.794	2.065	441.9E6	366.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.581	3.099	224.9E6	199.3E6	29.518m	30.867m
Spiked Amount		40.000	Range	30 - 150	Recovery	= 73.80%	77.17%
24) SA	Decachlor...	10.243	11.643	157.4E6	92974814	21.923	20.302
Spiked Amount		40.000			Recovery	= 54.81%	50.75%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

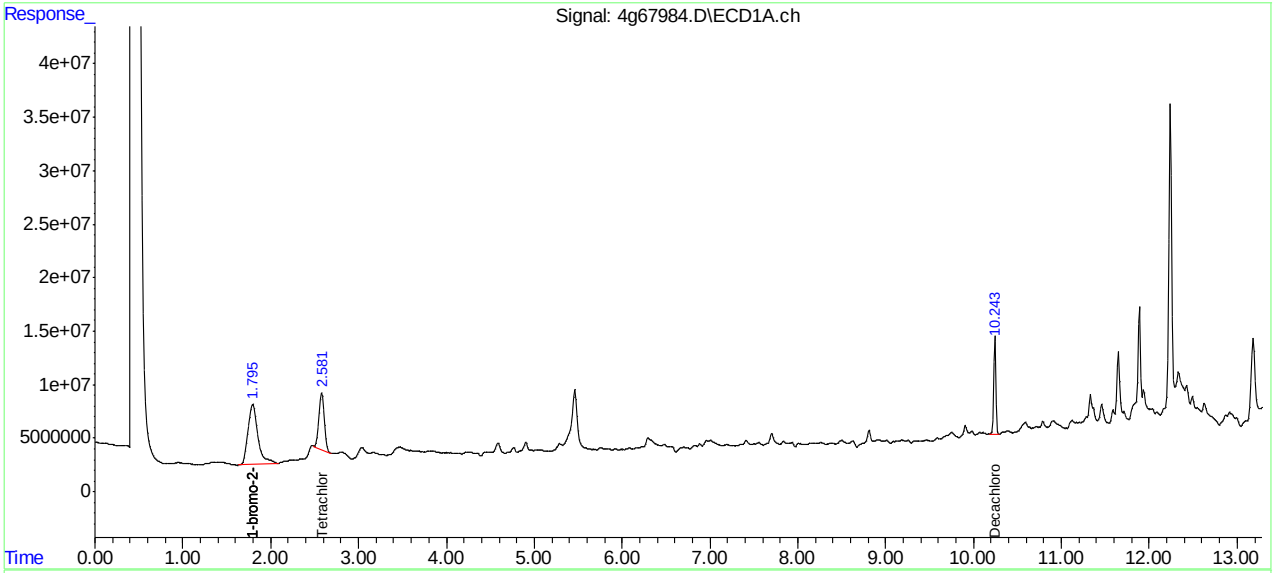
SGS ACCUTEST JC19759

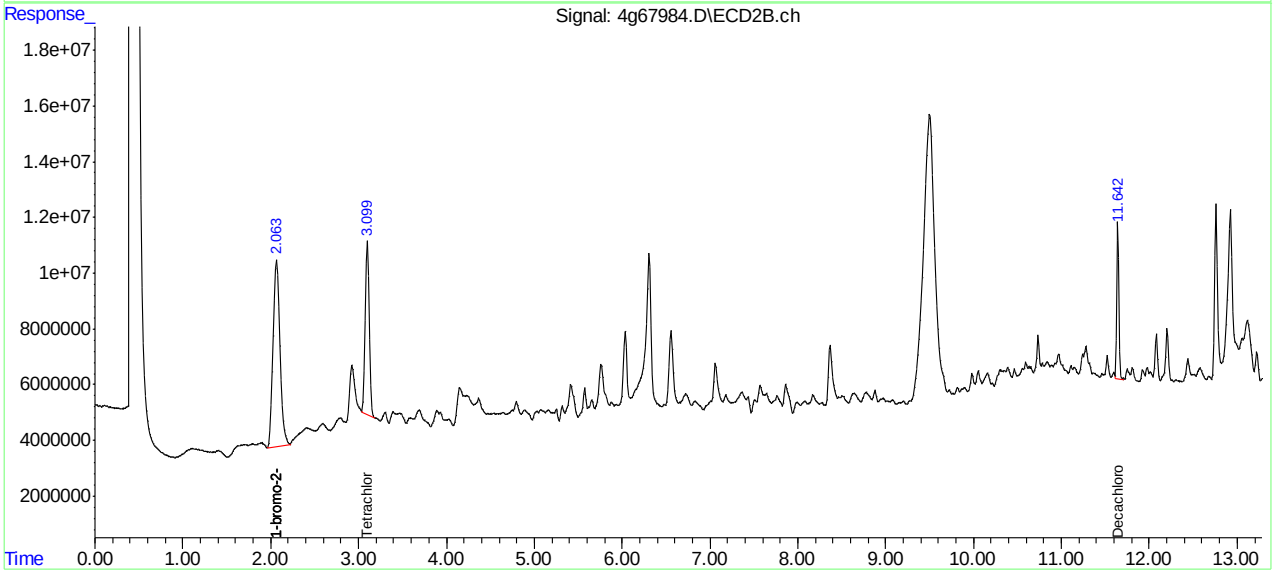
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67984.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:44 pm
Operator : dharas
Sample : jc19759-6
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:29:45 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:	JC19759-6	**Method:**	SW846 8081B
Lab FileID:	4G67984.D	**Analyst approved:**	05/07/16 16:59 Brittany Piercy
Injection Time:	05/06/16 17:44	**Supervisor approved:**	05/09/16 07:00 Gwendolyn Burns

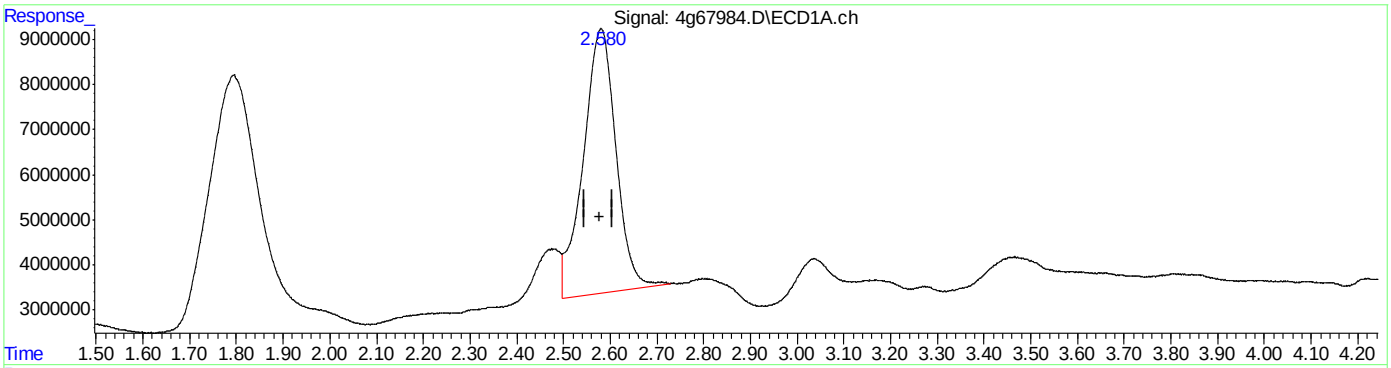
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.58	Poor instrument integration
Tetrachloro-m-xylene	877-09-8	2	3.10	Poor instrument integration

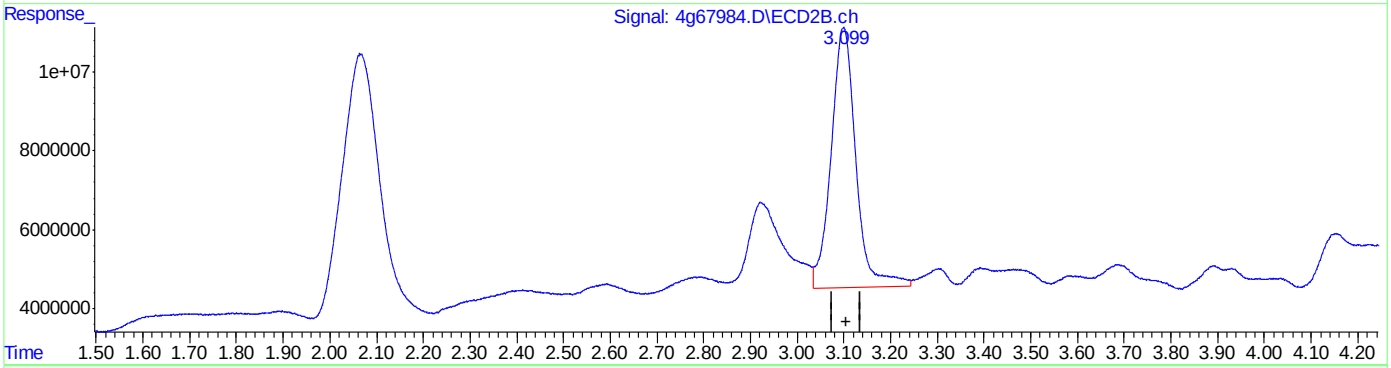
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67984.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:44 pm
Operator : dharas
Sample : jc19759-6
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:28:22 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)
2.581min 37.497 PPB
response 285718120

(2) Tetrachloro-m-xylene #2 (SAB)
3.099min 37.649 PPB
response 243110594

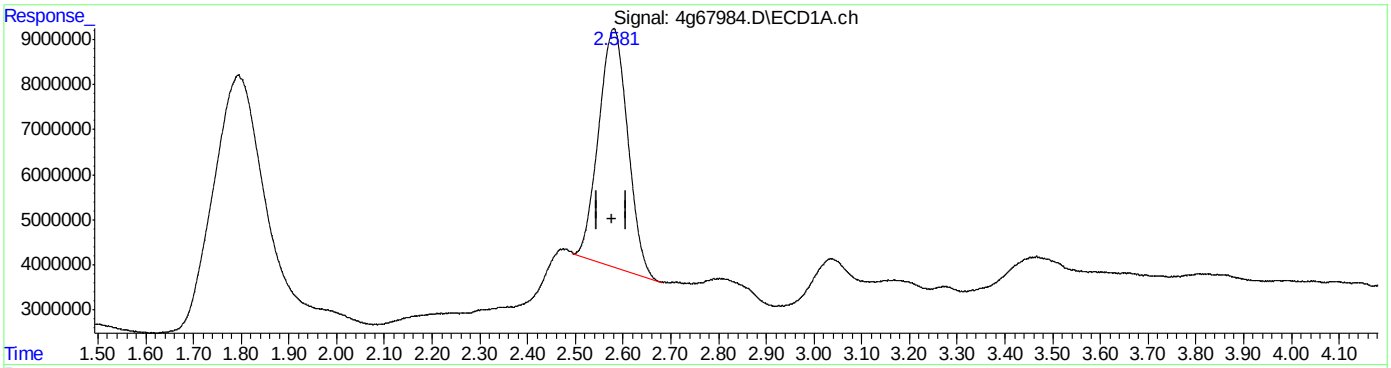
(+) = Expected Retention Time
4PST1778.M Sat May 07 16:28:32 2016 RPT1

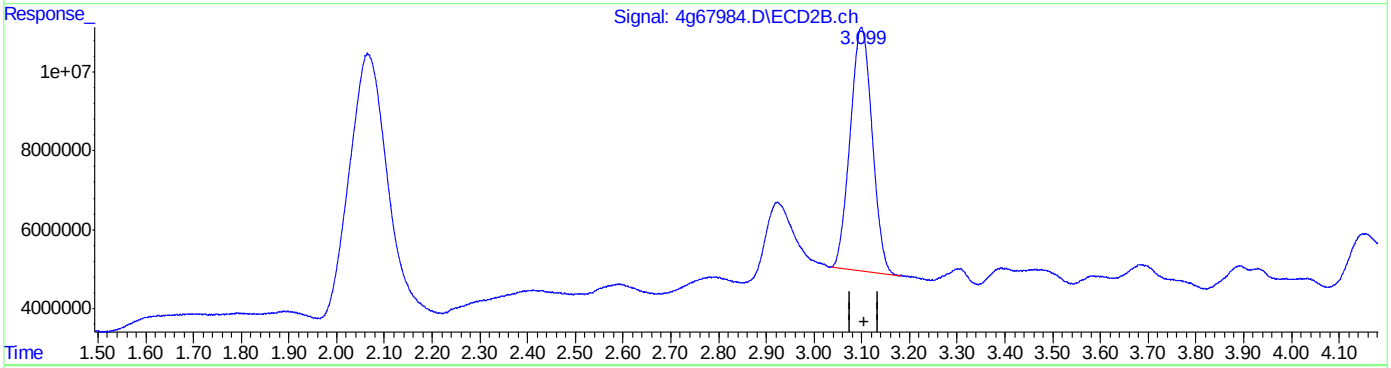
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67984.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 5:44 pm
Operator : dharas
Sample : jc19759-6
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:28:22 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)
2.581min 29.518 PPB m
response 224920182

(2) Tetrachloro-m-xylene #2 (SAB)
3.099min 30.867 PPB m
response 199317407

(+) = Expected Retention Time
4PST1778.M Sat May 07 16:28:52 2016 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67975.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:27 pm
Operator : dharas
Sample : op93694-mb1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:27:51 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...	1.794	2.065	420.1E6	398.0E6	50.000	50.000
25) I	1-bromo-2...	1.794	2.065	420.1E6	398.0E6	50.000	50.000
31) I	1-bromo-2...	1.794	2.065	420.1E6	398.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.580	3.098	264.6E6	244.1E6	36.530	34.820
Spiked Amount		40.000	Range	30 - 150	Recovery	= 91.33%	87.05%
24) SA	Decachlor...	10.244	11.645	302.8E6	186.4E6	44.361	37.491
Spiked Amount		40.000			Recovery	= 110.90%	93.73%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

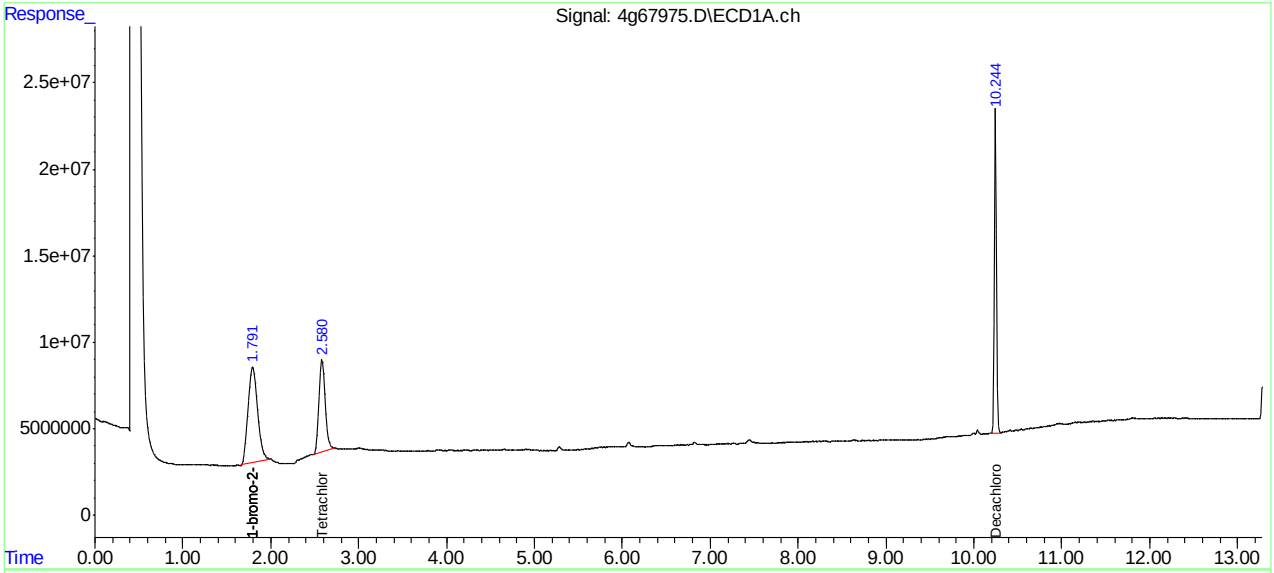
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

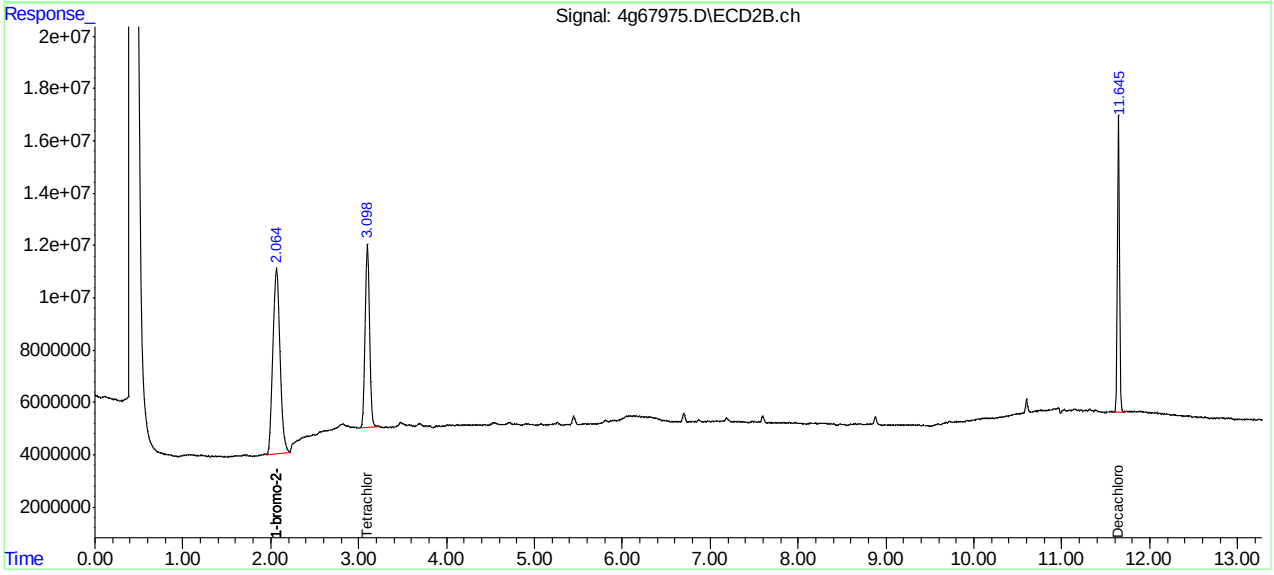
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67975.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:27 pm
Operator : dharas
Sample : op93694-mb1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:27:51 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 07:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:43 pm
Operator : dharas
Sample : op93694-bs1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:30:30 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...	1.795	2.064	411.3E6	385.8E6	50.000	50.000
25) I	1-bromo-2...	1.795	2.064	411.3E6	385.8E6	50.000	50.000
31) I	1-bromo-2...	1.795	2.064	411.3E6	385.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.583	3.099	261.2E6	238.4E6	36.827	35.080
	Spiked Amount 40.000 Range 30 - 150 Recovery = 92.07% 87.70%						
24) SA	Decachlor...	10.246	11.644	267.6E6	166.1E6	40.039	34.474
	Spiked Amount 40.000 Recovery = 100.10% 86.18%						
	Target Compounds						
3) A	alpha-BHC	3.150	3.863	231.3E6	224.6E6	23.835	22.609
4) MA	gamma-BHC	3.497	4.341	211.6E6	209.1E6	24.939	23.685
5) MA	Heptachlor	3.829f	4.967	173.6E6	209.4E6	21.789	23.021
6) B	beta-BHC	3.611	4.439	97953461	99041830	24.101	24.773
7) B	delta-BHC	4.054	4.869	178.2E6	181.8E6	23.058	22.067
8) MB	Aldrin	4.428	5.453	197.6E6	199.3E6	24.307	22.246
9) B	Heptachlo...	5.193	6.316	190.1E6	193.4E6	26.181	23.900
10) B	gamma-Chl...	5.377	6.614	190.4E6	190.0E6	26.227	24.301
11) B	alpha-Chl...	5.557	6.846	191.1E6	181.4E6	24.420	23.095
12) A	Endosulfan I	5.741	6.951	208.9E6	177.5E6	25.951	23.670
13) B	4,4'-DDE	5.694	7.105	153.1E6	182.6E6	21.097	23.312
14) MA	Dieldrin	6.082	7.398	203.8E6	194.6E6	26.700	24.883
15) MA	Endrin	6.418	7.919	198.1E6	182.8E6	27.266	26.233
16) A	4,4'-DDD	6.576f	8.082	163.8E6	148.4E6	26.631m	23.458
17) B	Endosulfa...	6.762	8.278	207.3E6	171.3E6	29.648m	24.866
18) MA	4,4'-DDT	6.996	8.623	83997662	139.6E6	19.455m	25.239 #
19) B	Endrin Al...	7.398	8.854	165.7E6	138.5E6	28.068m	26.462
20) B	Endosulfa...	8.092	9.331	166.6E6	142.6E6	25.998	24.727
21) A	Methoxychlor	7.814f	9.834	57348870	74778325	20.930	24.876
23) B	Endrin Ke...	8.555	10.192	194.0E6	154.4E6	26.178	24.393

SemiQuant Compounds - Not Calibrated on this Instrument

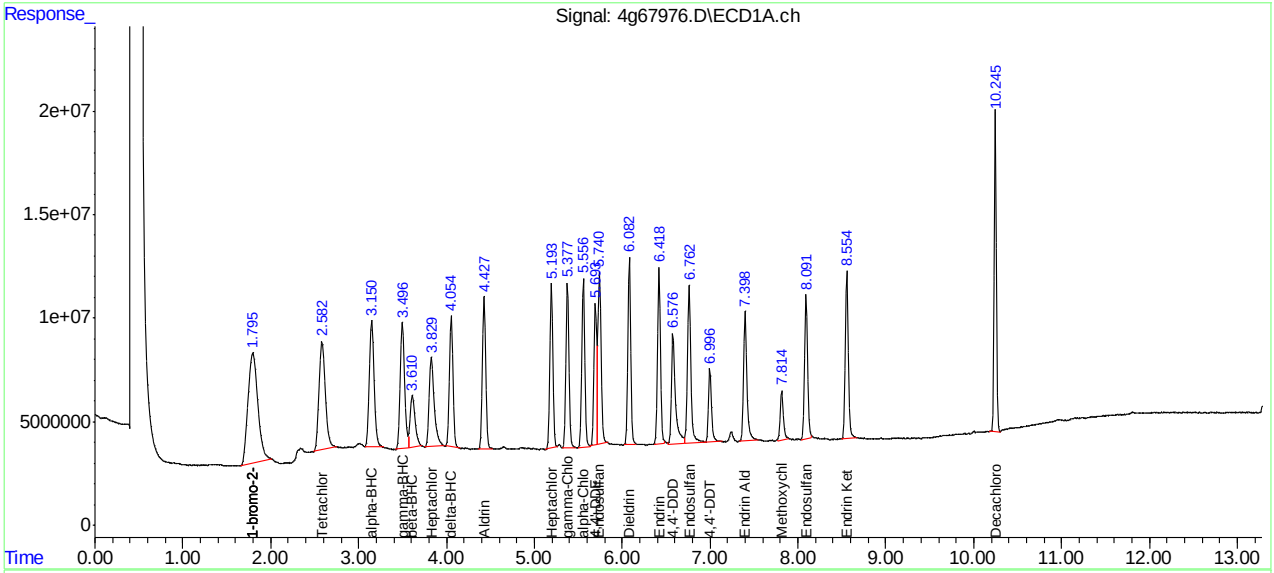
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

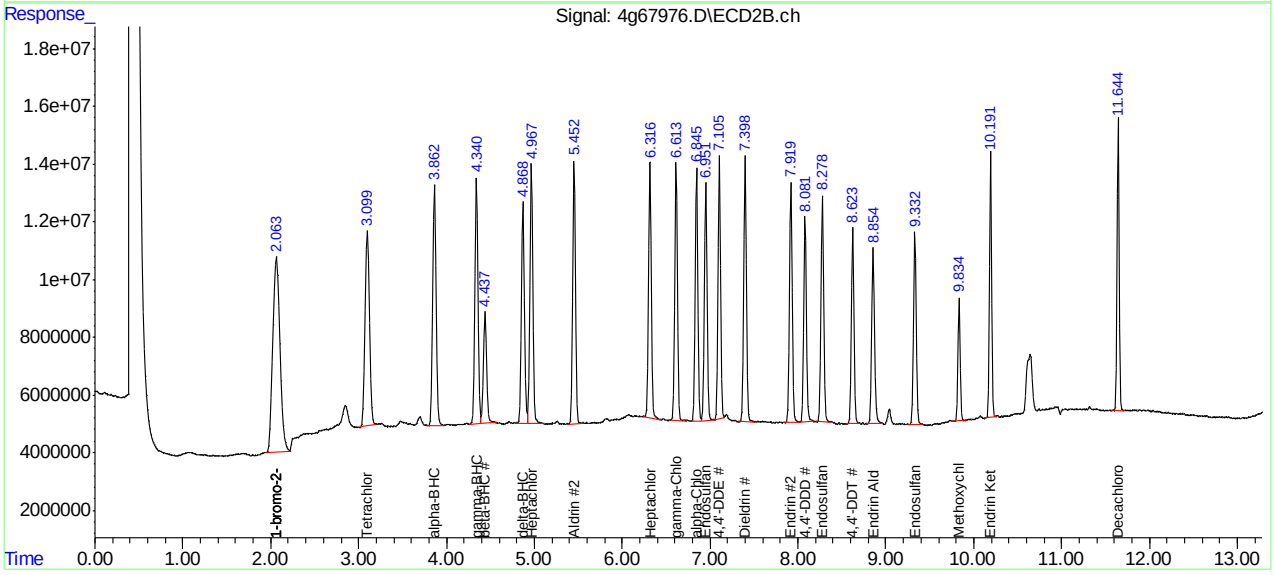
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:43 pm
Operator : dharas
Sample : op93694-bs1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:30:30 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:	OP93694-BS1	**Method:**	SW846 8081B
Lab FileID:	4G67976.D	**Analyst approved:**	05/06/16 18:41 Dhara Saparia
Injection Time:	05/06/16 15:43	**Supervisor approved:**	05/09/16 07:00 Gwendolyn Burns

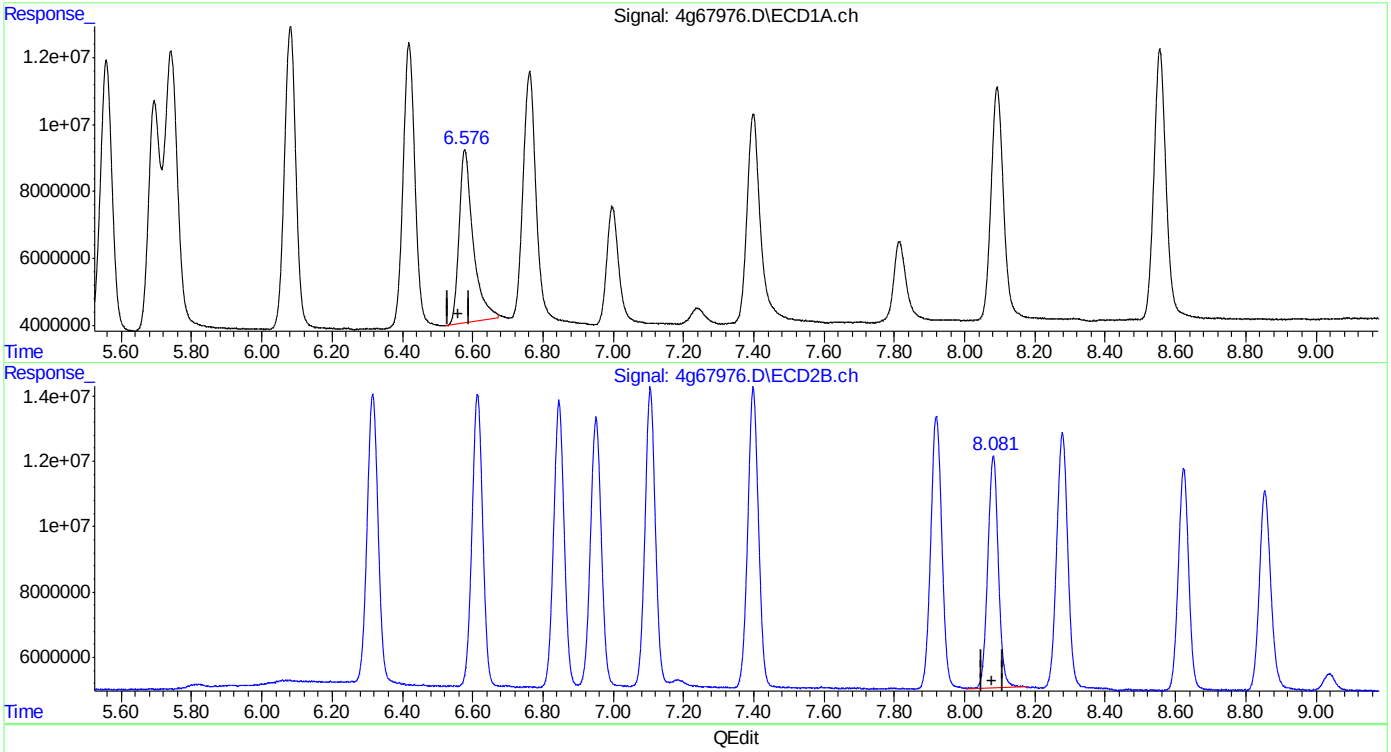
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDD	72-54-8	1	6.58	Poor instrument integration
Endosulfan-II	33213-65-9	1	6.76	Poor instrument integration
4,4'-DDT	50-29-3	1	7.00	Poor instrument integration
Endrin aldehyde	7421-93-4	1	7.40	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:43 pm
Operator : dharas
Sample : op93694-bs1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:28:35 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



(16) 4,4'-DDD (A)
6.577min 23.260 PPB
response 143066667

(16) 4,4'-DDD #2 (A)
8.082min 23.458 PPB
response 148446004

(+) = Expected Retention Time

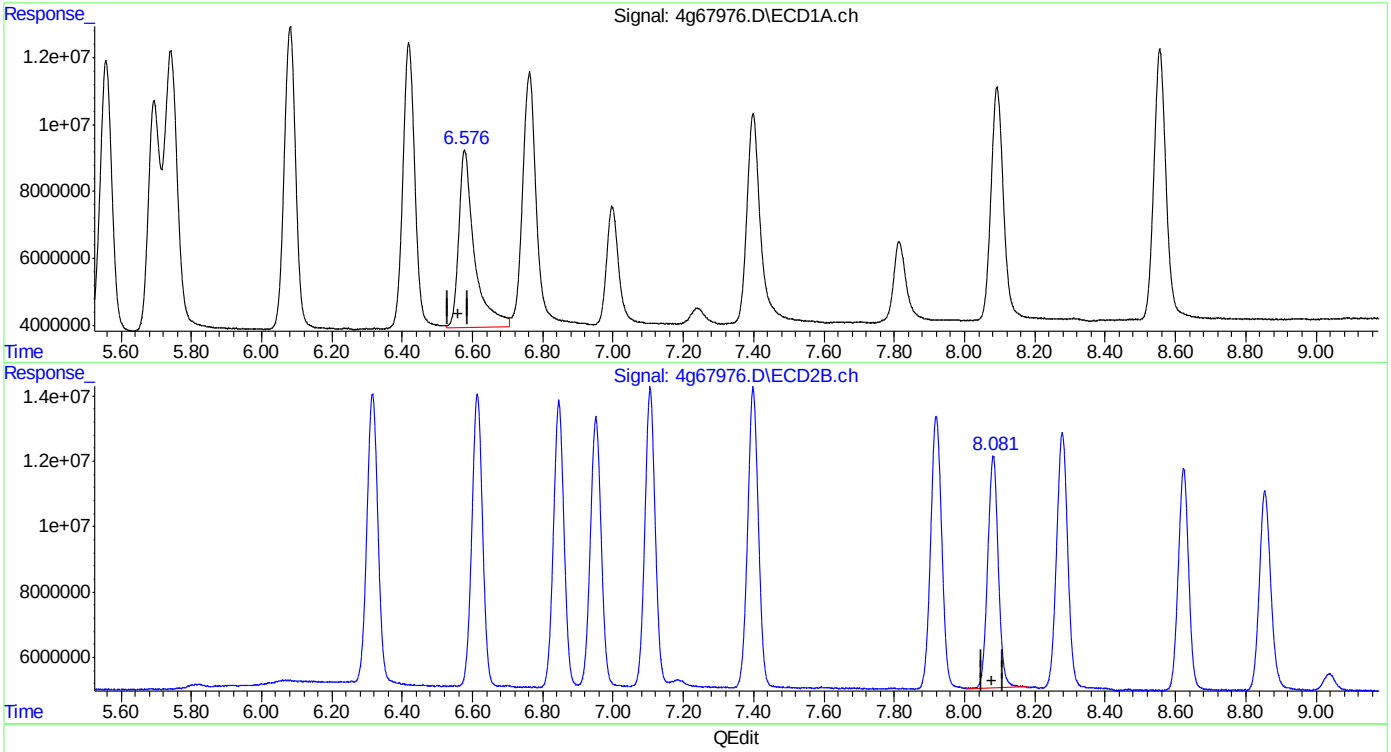
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:43 pm
Operator : dharas
Sample : op93694-bs1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:28:35 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



(16) 4,4'-DDD (A)
6.576min 26.631 PPB m
response 163799422

(16) 4,4'-DDD #2 (A)
8.082min 23.458 PPB
response 148446004

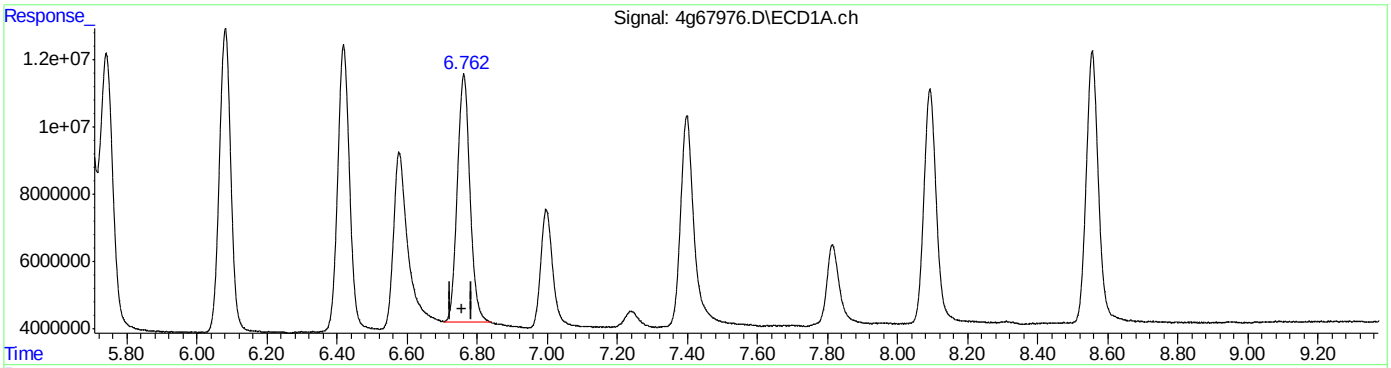
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:29:36 2016 RPT1

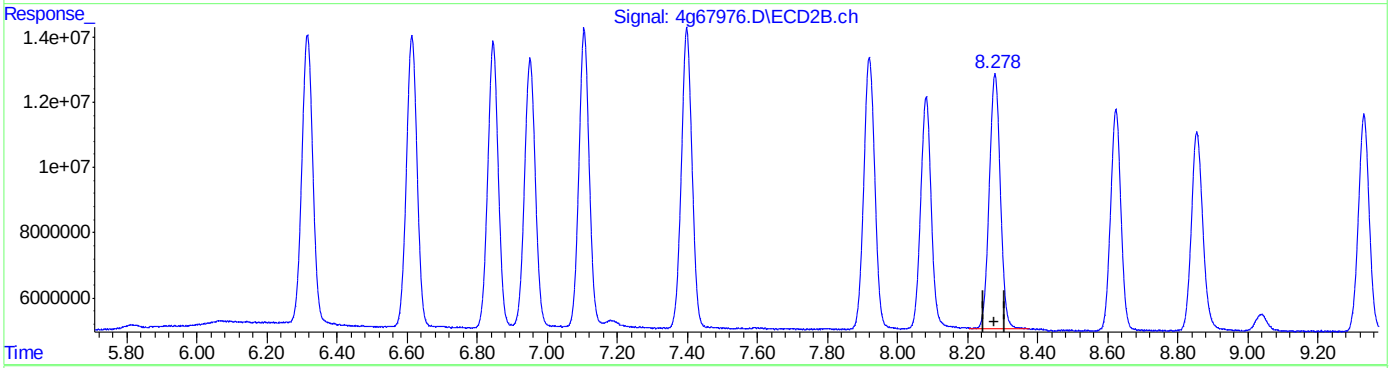
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:43 pm
Operator : dharas
Sample : op93694-bs1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:28:35 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

(17) Endosulfan II (B)
6.762min 26.396 PPB
response 184561603

(17) Endosulfan II #2 (B)
8.278min 24.866 PPB
response 171317102

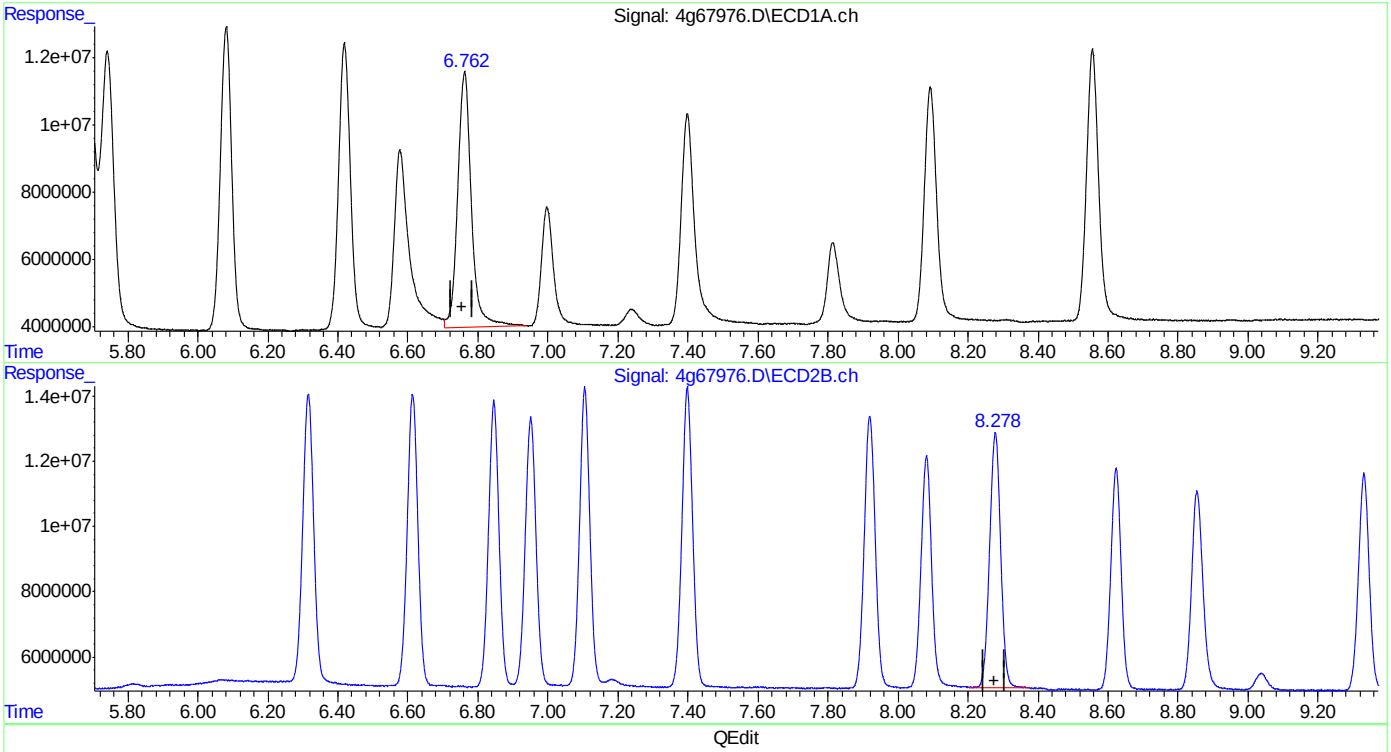
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:43 pm
Operator : dharas
Sample : op93694-bs1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:28:35 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



(17) Endosulfan II (B)
6.762min 29.648 PPB m
response 207303463

(17) Endosulfan II #2 (B)
8.278min 24.866 PPB
response 171317102

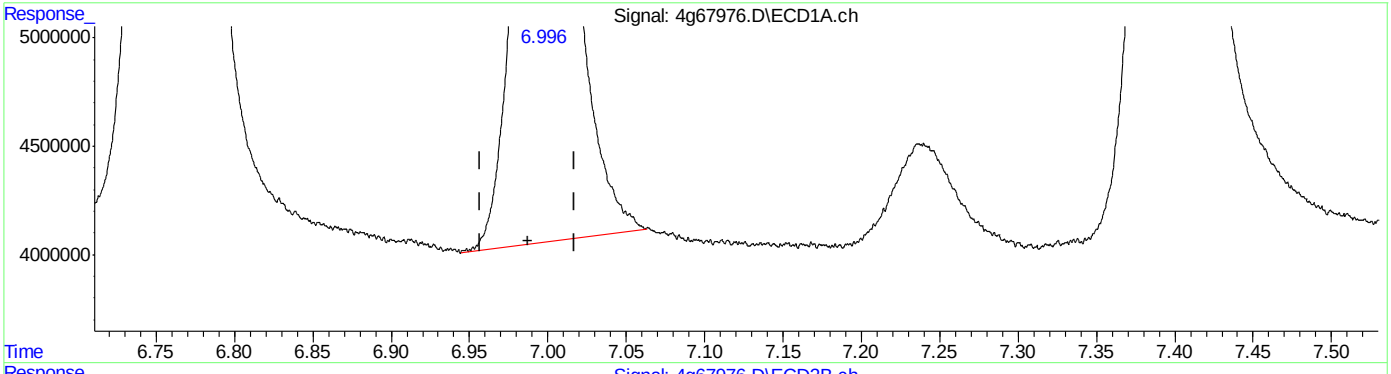
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:29:58 2016 RPT1

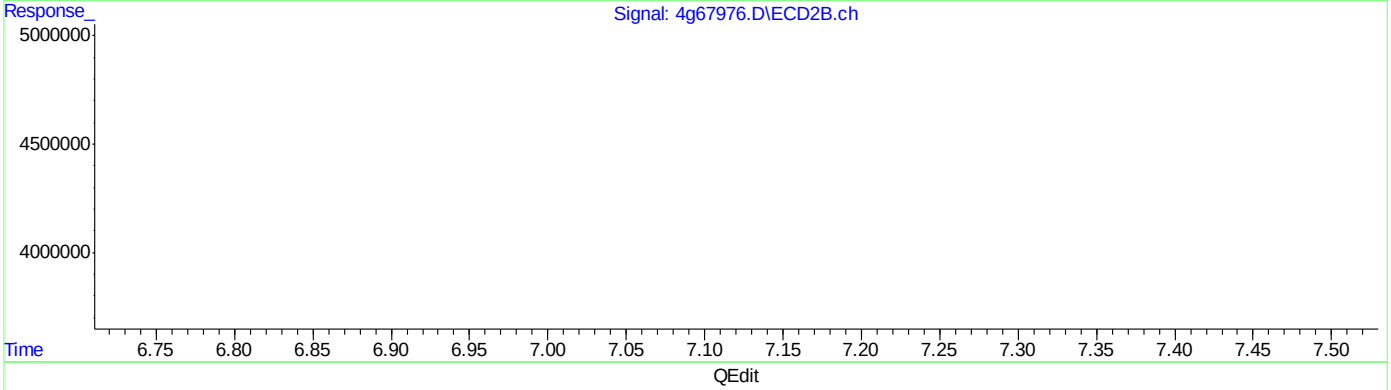
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:43 pm
Operator : dharas
Sample : op93694-bs1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:28:35 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

(18) 4,4'-DDT (MA)
6.996min 18.675 PPB
response 80164857

(18) 4,4'-DDT #2 (MA)
8.623min 25.239 PPB
response 139614929

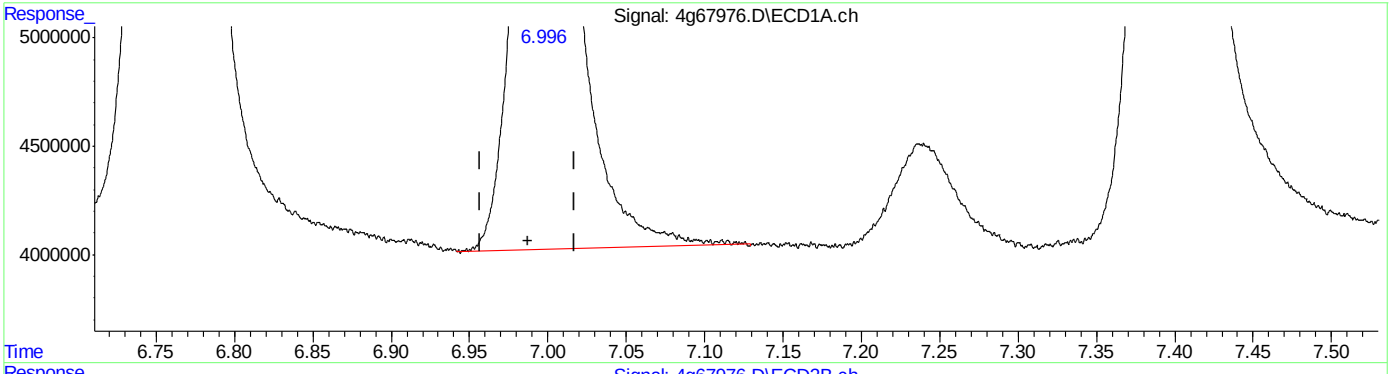
(+) = Expected Retention Time

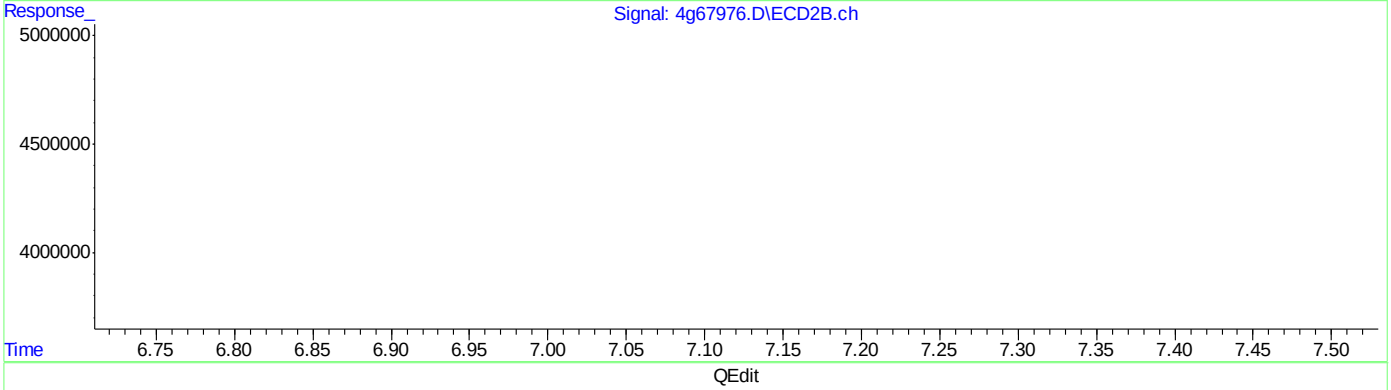
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:43 pm
Operator : dharas
Sample : op93694-bs1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:28:35 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

(18) 4,4'-DDT (MA)
6.996min 19.455 PPB m
response 83997662

(18) 4,4'-DDT #2 (MA)
8.623min 25.239 PPB
response 139614929

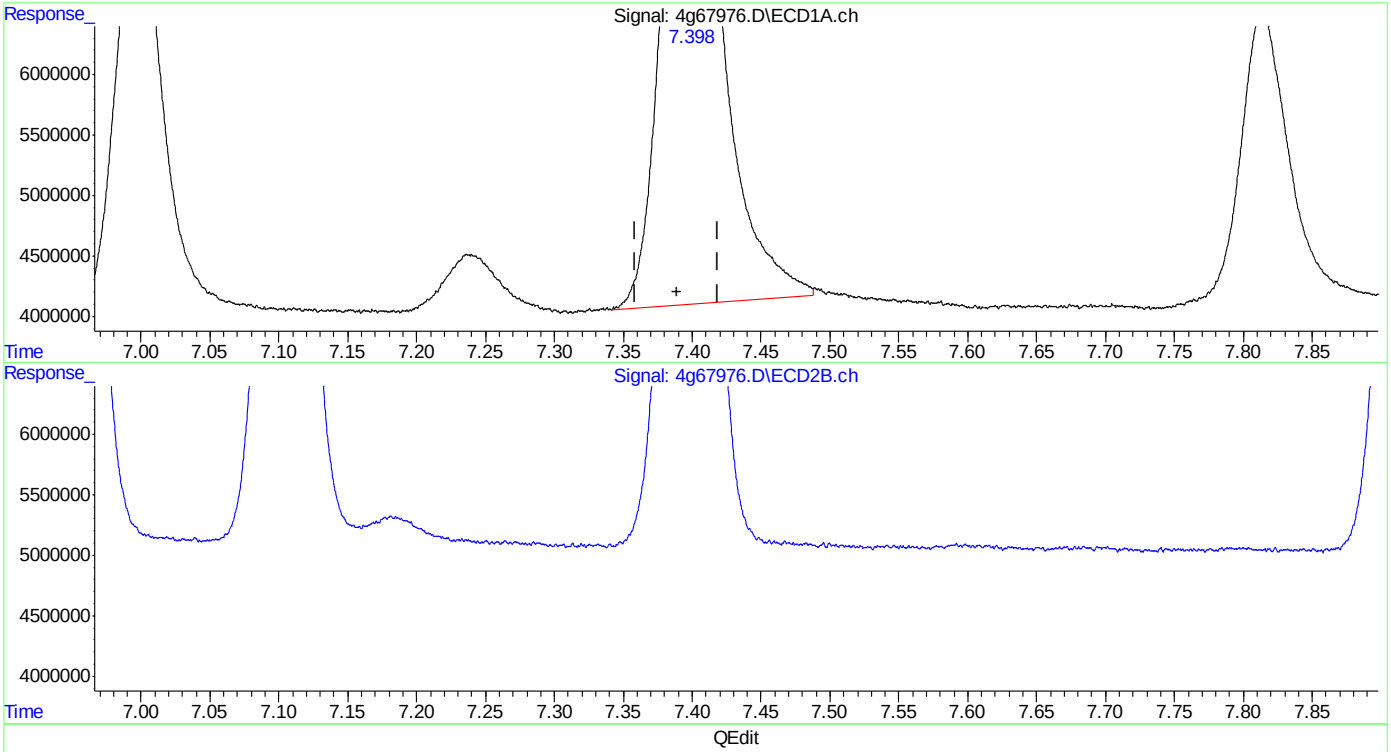
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:43 pm
Operator : dharas
Sample : op93694-bs1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:28:35 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

(19) Endrin Aldehyde (B)
7.400min 27.281 PPB
response 161040424

(19) Endrin Aldehyde #2 (B)
8.854min 26.462 PPB
response 138509287

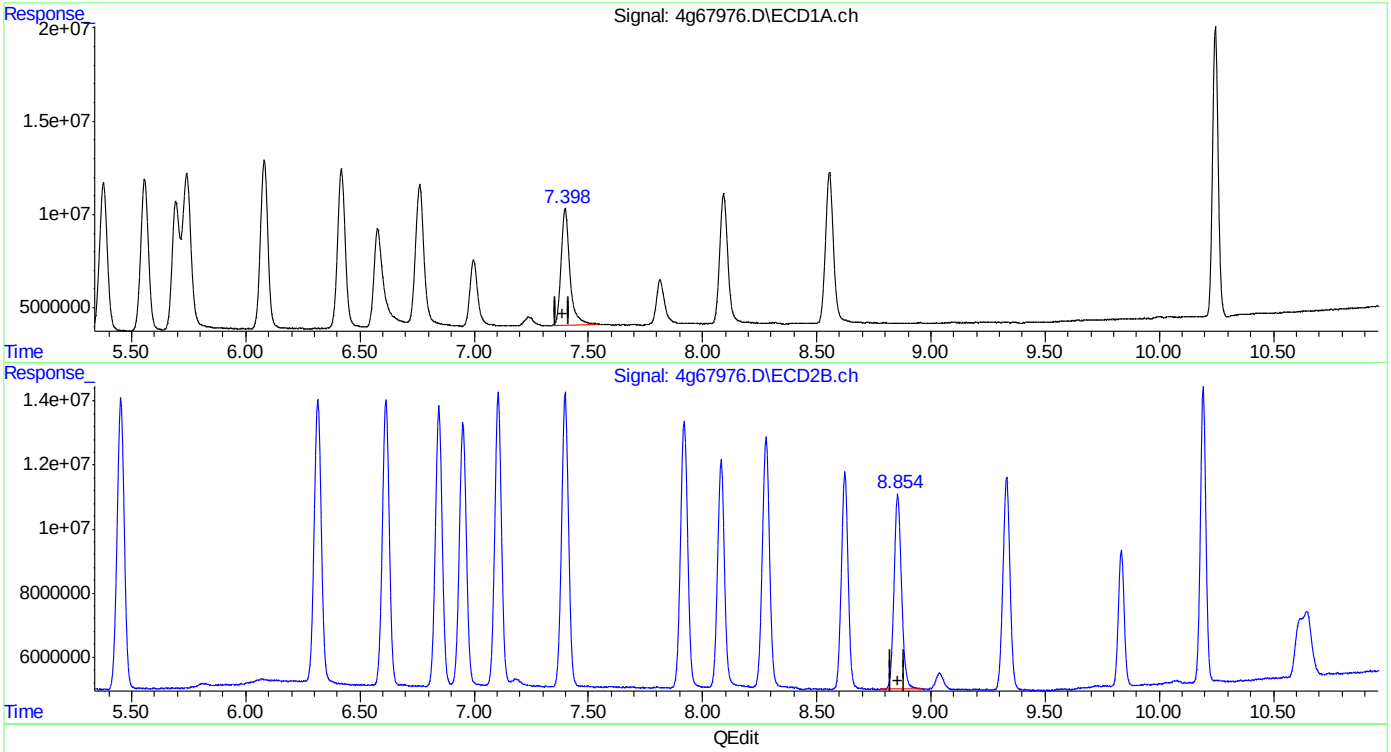
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:43 pm
Operator : dharas
Sample : op93694-bs1
Misc : op93694,g4g1782,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:28:35 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



(19) Endrin Aldehyde (B)
7.398min 28.068 PPB m
response 165688585

(19) Endrin Aldehyde #2 (B)
8.854min 26.462 PPB
response 138509287

(+) = Expected Retention Time

SGS ACCUTEST JC19759

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/09/16 07:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67977.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:58 pm
Operator : dharas
Sample : op93694-ms
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:32:42 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...	1.797	2.067	358.2E6	379.0E6	50.000	50.000
25) I	1-bromo-2...	1.797	2.067	358.2E6	379.0E6	50.000	50.000
31) I	1-bromo-2...	1.797	2.067	358.2E6	379.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.585	3.100	204.3E6	174.7E6	33.078	26.175
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 82.70%	65.44%
24) SA	Decachlor...	10.243	11.643	195.6E6	117.7E6	33.606	24.856 #
	Spiked Amount	40.000			Recovery	= 84.02%	62.14%
	Target Compounds						
3) A	alpha-BHC	3.149	3.864	195.0E6	203.6E6	23.079	20.867
4) MA	gamma-BHC	3.496	4.341	186.4E6	181.0E6	25.224	20.870
5) MA	Heptachlor	3.818	4.968	161.9E6	180.0E6	23.335	20.145
6) B	beta-BHC	3.608	4.442	77275328	88233631	21.833	22.467
7) B	delta-BHC	4.054	4.869	156.5E6	155.3E6	23.253	19.181m
8) MB	Aldrin	4.429	5.454	158.7E6	189.8E6	22.426	21.565
9) B	Heptachlo...	5.193	6.312	172.4E6	811.4E6	27.256	102.098 #
10) B	gamma-Chl...	5.378	6.614	304.5E6	194.9E6	48.153	25.374 #
11) B	alpha-Chl...	5.556	6.846	206.1E6	168.5E6	30.242	21.842 #
12) A	Endosulfan I	5.742	6.952	174.9E6	158.4E6	24.942	21.504
13) B	4,4'-DDE	5.686	7.105	153.5E6	223.1E6	24.279	29.000
14) MA	Dieldrin	6.080	7.399	177.2E6	199.4E6	26.665	25.964
15) MA	Endrin	6.419	7.920	192.5E6	177.8E6	30.412	25.967
16) A	4,4'-DDD	6.567	8.079	133.3E6	143.0E6	24.891	23.003
17) B	Endosulfa...	6.758	8.278	157.0E6	164.2E6	25.777	24.255
18) MA	4,4'-DDT	6.991	8.623	74689939	131.0E6	19.814	24.117
19) B	Endrin Al...	7.394	8.854	133.0E6	113.6E6	25.873	22.103
20) B	Endosulfa...	8.088	9.330	153.2E6	128.2E6	27.439	22.626
21) A	Methoxychlor	7.805	9.833	55258078	69251937	23.158	23.452
23) B	Endrin Ke...	8.551	10.190	176.2E6	154.0E6	27.304	24.762m

SemiQuant Compounds - Not Calibrated on this Instrument

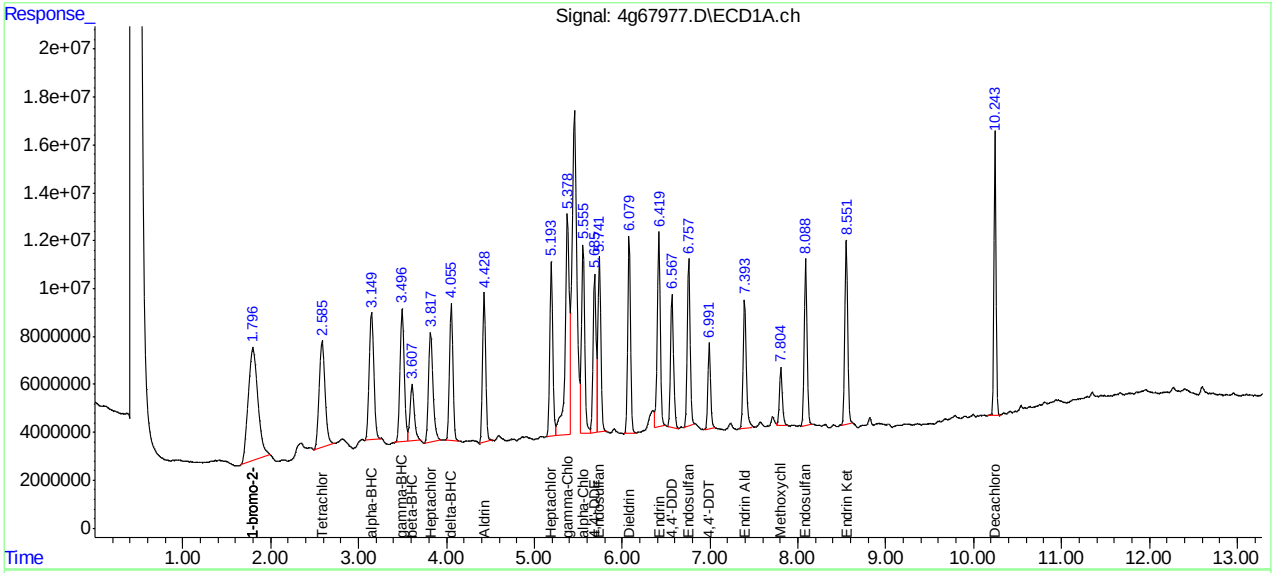
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

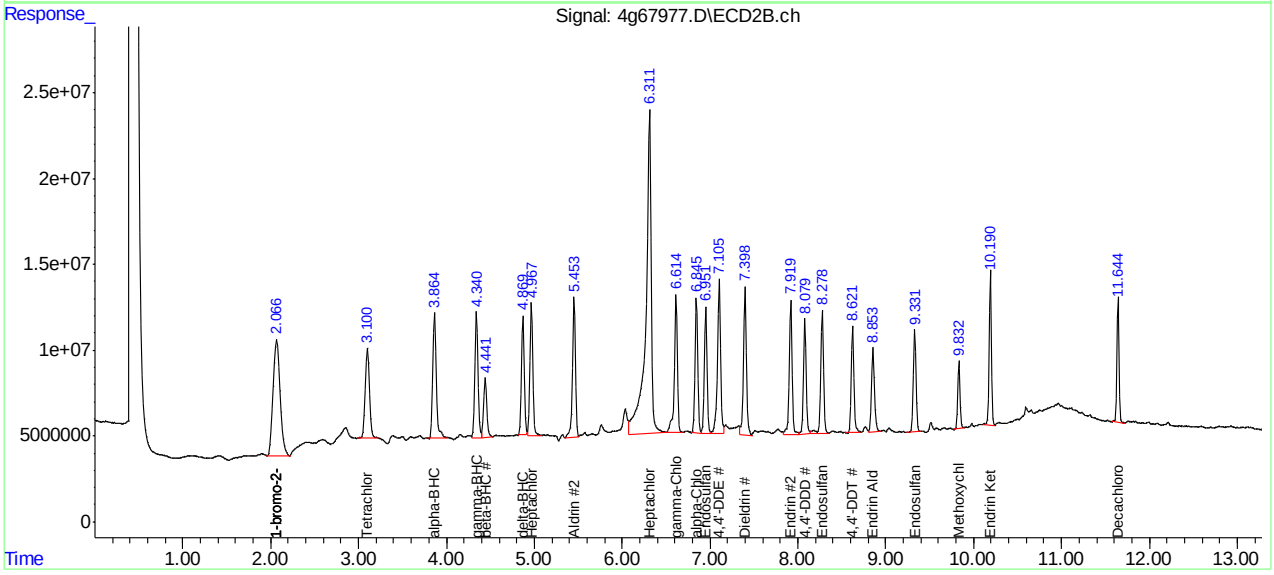
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67977.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:58 pm
Operator : dharas
Sample : op93694-ms
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:32:42 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:	OP93694-MS	**Method:**	SW846 8081B
Lab FileID:	4G67977.D	**Analyst approved:**	05/06/16 18:41 Dhara Saparia
Injection Time:	05/06/16 15:58	**Supervisor approved:**	05/09/16 07:00 Gwendolyn Burns

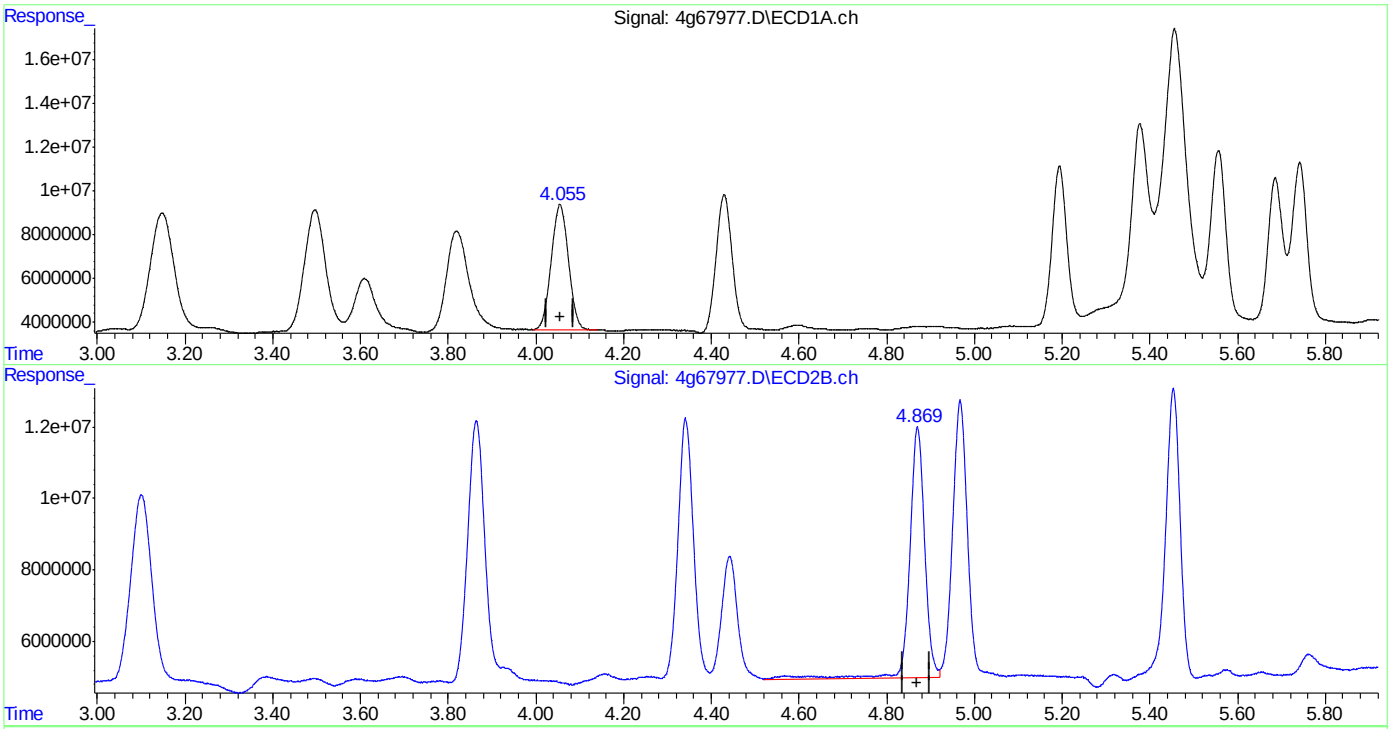
Parameter	CAS	Sig#	R.T. (min.)	Reason
delta-BHC	319-86-8	2	4.87	Poor instrument integration
Endrin ketone	53494-70-5	2	10.19	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67977.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:58 pm
Operator : dharas
Sample : op93694-ms
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:31:31 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



(7) delta-BHC (B)
4.054min 23.253 PPB
response 156510153

(7) delta-BHC #2 (B)
4.870min 21.071 PPB
response 170556370

(+) = Expected Retention Time
4PST1778.M Fri May 06 18:31:49 2016 RPT1

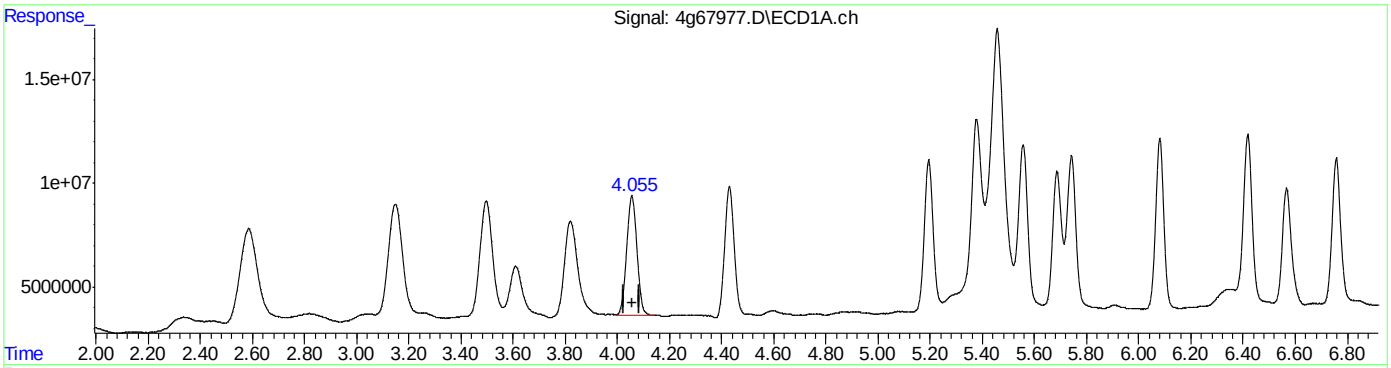
SGS ACCUTEST JC19759

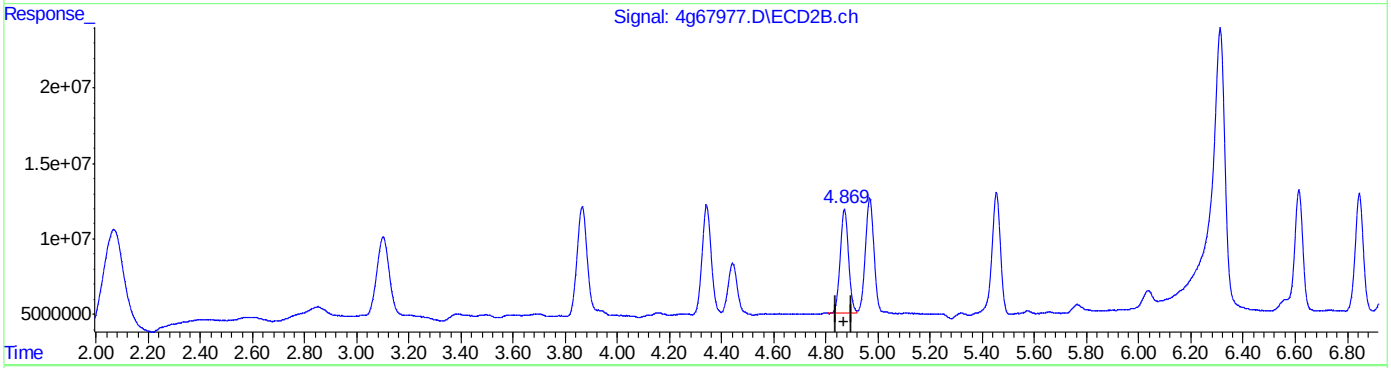
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67977.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:58 pm
Operator : dharas
Sample : op93694-ms
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:31:31 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

(7) delta-BHC (B)
4.054min 23.253 PPB
response 156510153

(7) delta-BHC #2 (B)
4.869min 19.181 PPB m
response 155261896

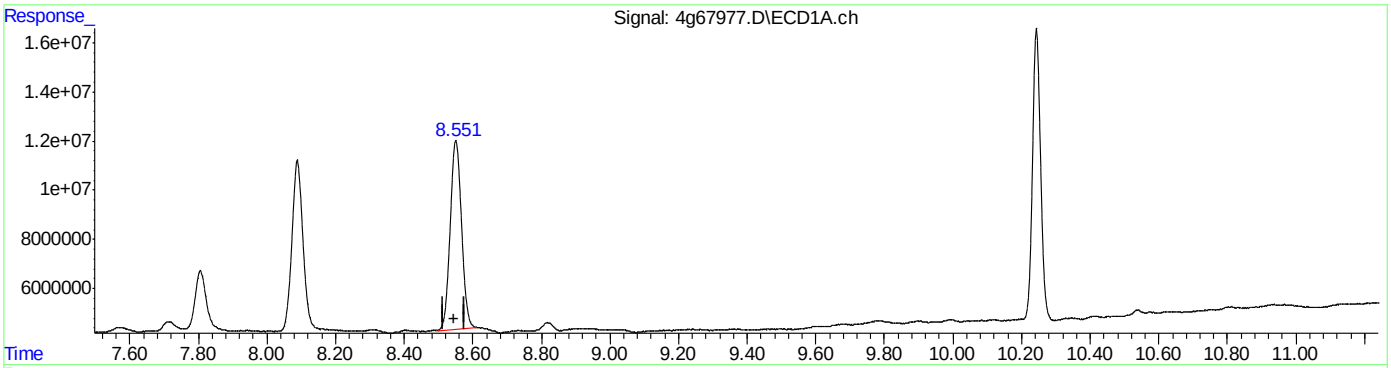
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:31:59 2016 RPT1

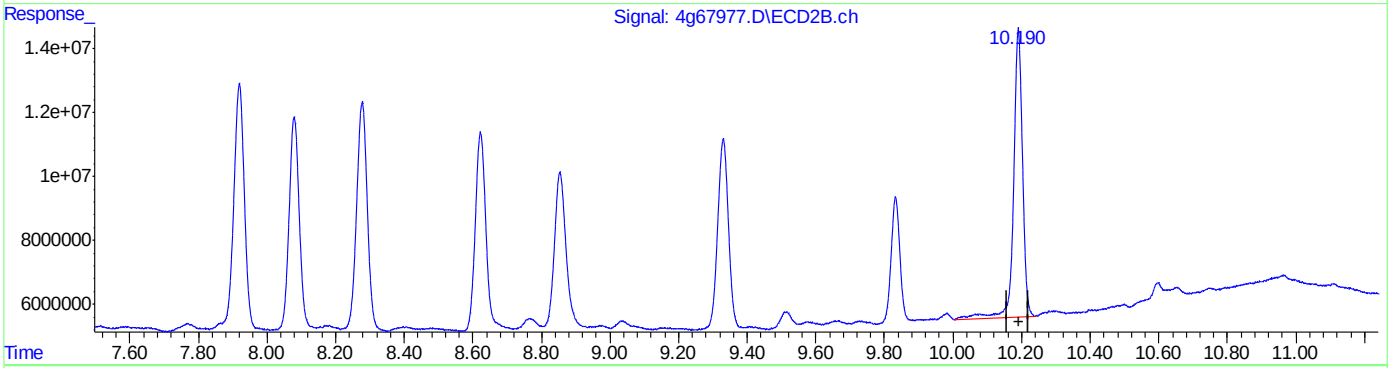
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67977.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:58 pm
Operator : dharas
Sample : op93694-ms
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:31:31 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

(23) Endrin Ketone (B)
8.551min 27.304 PPB
response 176246233

(23) Endrin Ketone #2 (B)
10.191min 26.312 PPB
response 163623198

(+) = Expected Retention Time
4PST1778.M Fri May 06 18:32:23 2016 RPT1

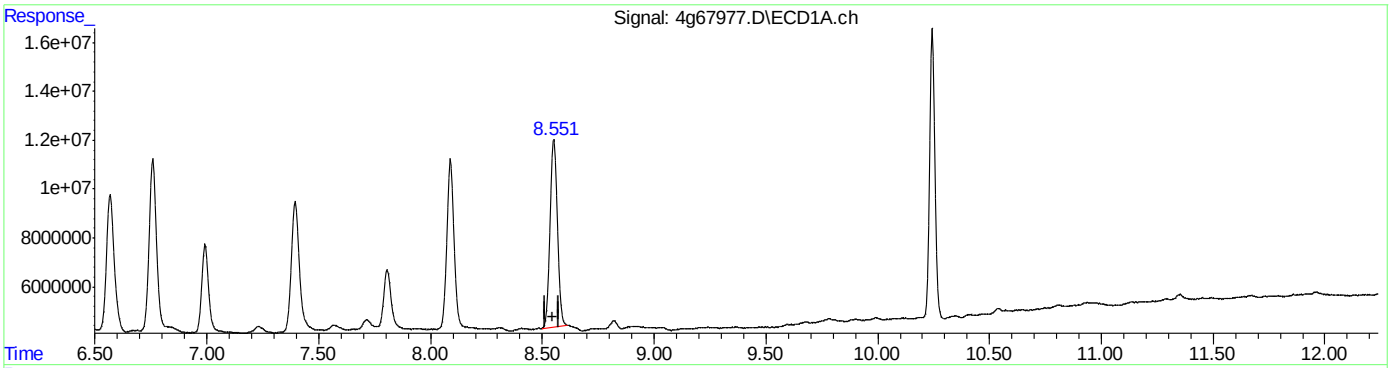
SGS ACCUTEST JC19759

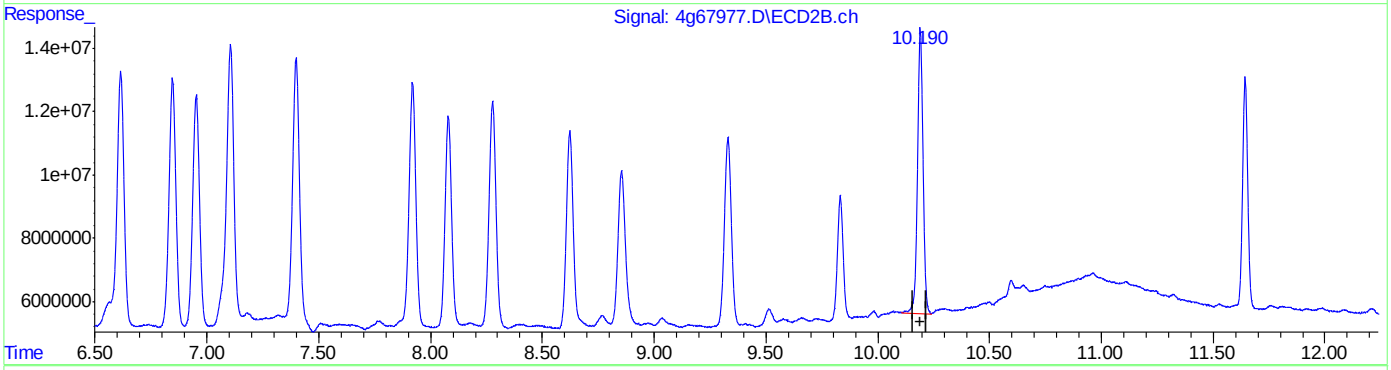
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67977.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 3:58 pm
Operator : dharas
Sample : op93694-ms
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:31:31 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

(23) Endrin Ketone (B)
8.551min 27.304 PPB
response 176246233

(23) Endrin Ketone #2 (B)
10.190min 24.762 PPB m
response 153986885

(+) = Expected Retention Time
4PST1778.M Fri May 06 18:32:31 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/16 07:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67978.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:13 pm
Operator : dharas
Sample : op93694-msd
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:33:53 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

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.803	2.070	338.7E6	362.3E6	50.000	50.000	
25) I	1-bromo-2...	1.803	2.070	338.7E6	362.3E6	50.000	50.000	
31) I	1-bromo-2...	1.803	2.070	338.7E6	362.3E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.587	3.102	254.9E6	216.9E6	43.646	33.998	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 109.12%	85.00%	
24) SA	Decachlor...	10.244	11.644	249.0E6	149.0E6	45.253	32.933	#
	Spiked Amount	40.000			Recovery	= 113.13%	82.33%	
	Target Compounds							
3) A	alpha-BHC	3.151	3.865	211.9E6	196.5E6	26.514	21.069	
4) MA	gamma-BHC	3.496	4.343	202.9E6	200.5E6	29.037	24.178	
5) MA	Heptachlor	3.820	4.968	180.4E6	198.6E6	27.504	23.254	
6) B	beta-BHC	3.611	4.442	84406290	97278076	25.220	25.911	
7) B	delta-BHC	4.057	4.870	174.2E6	170.6E6	27.374	22.049m	
8) MB	Aldrin	4.430	5.454	174.0E6	218.9E6	26.004	26.015	
9) B	Heptachlo...	5.194	6.313	191.2E6	927.6E6	31.977	122.093	#
10) B	gamma-Chl...	5.378	6.615	346.2E6	219.6E6	57.902	29.908	#
11) B	alpha-Chl...	5.556	6.846	217.9E6	186.1E6	33.807	25.239	#
12) A	Endosulfan I	5.742	6.952	189.1E6	168.8E6	28.530	23.968	
13) B	4,4'-DDE	5.686	7.105	165.5E6	234.2E6	27.695	31.846	
14) MA	Dieldrin	6.081	7.399	196.5E6	208.2E6	31.263	28.350	
15) MA	Endrin	6.420	7.920	188.3E6	185.4E6	31.474	28.332	
16) A	4,4'-DDD	6.567	8.080	146.4E6	148.0E6	28.904	24.912	
17) B	Endosulfa...	6.756	8.277	171.5E6	169.0E6	29.790	26.117	
18) MA	4,4'-DDT	6.992	8.623	87997421	146.5E6	24.017	28.211	
19) B	Endrin Al...	7.395	8.854	119.8E6	105.2E6	24.643	21.393	
20) B	Endosulfa...	8.089	9.331	168.8E6	141.6E6	31.989	26.152	
21) A	Methoxychlor	7.805	9.833	64063946	77541717	28.393	27.469	
23) B	Endrin Ke...	8.550	10.191	196.6E6	171.6E6	32.210	28.869m	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

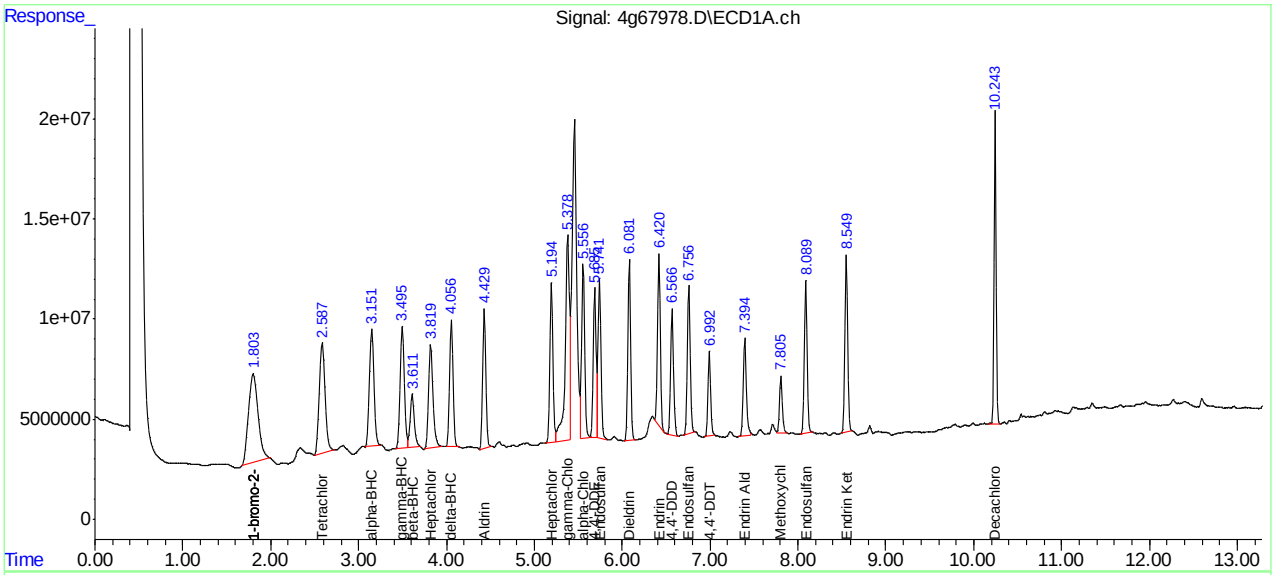
SGS ACCUTEST JC19759

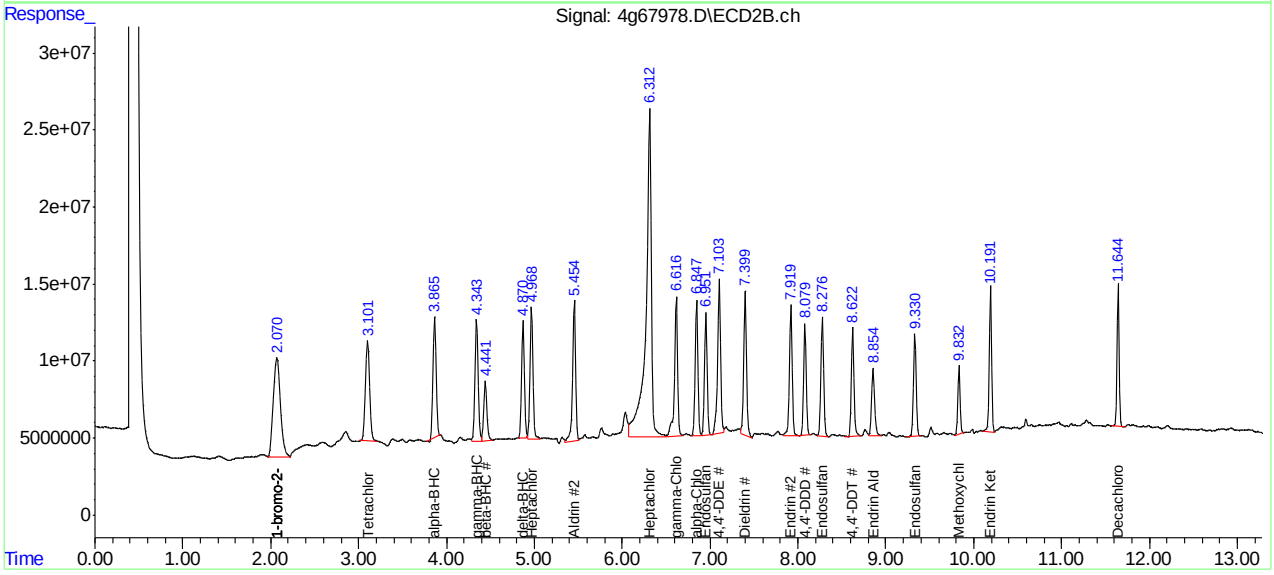
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67978.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:13 pm
Operator : dharas
Sample : op93694-msd
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:33:53 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





Manual Integration Approval Summary

Sample Number:	OP93694-MSD	**Method:**	SW846 8081B
Lab FileID:	4G67978.D	**Analyst approved:**	05/06/16 18:41 Dhara Saparia
Injection Time:	05/06/16 16:13	**Supervisor approved:**	05/09/16 07:00 Gwendolyn Burns

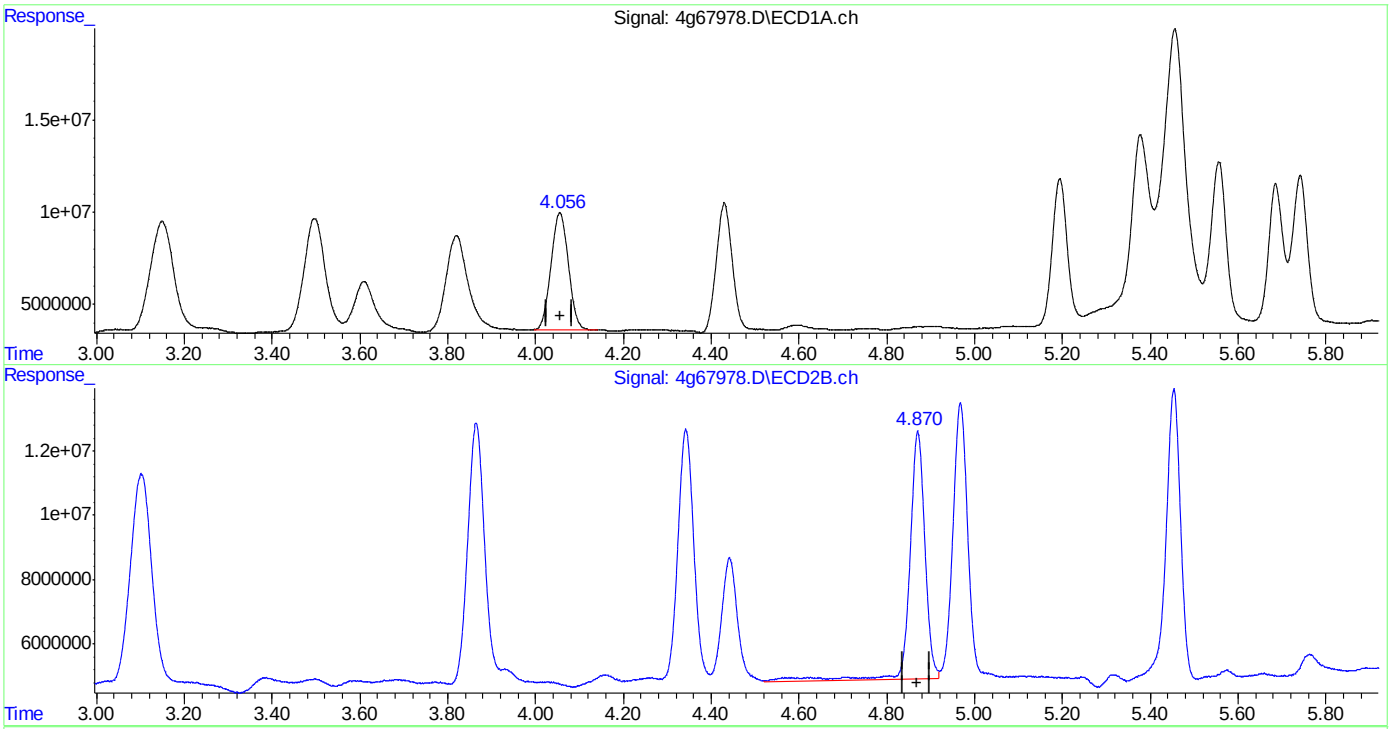
Parameter	CAS	Sig#	R.T. (min.)	Reason
delta-BHC	319-86-8	2	4.87	Poor instrument integration
Endrin ketone	53494-70-5	2	10.19	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67978.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:13 pm
Operator : dharas
Sample : op93694-msd
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:32:58 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

(7) delta-BHC (B)
4.057min 27.374 PPB
response 174229325

(7) delta-BHC #2 (B)
4.871min 24.348 PPB
response 188407824

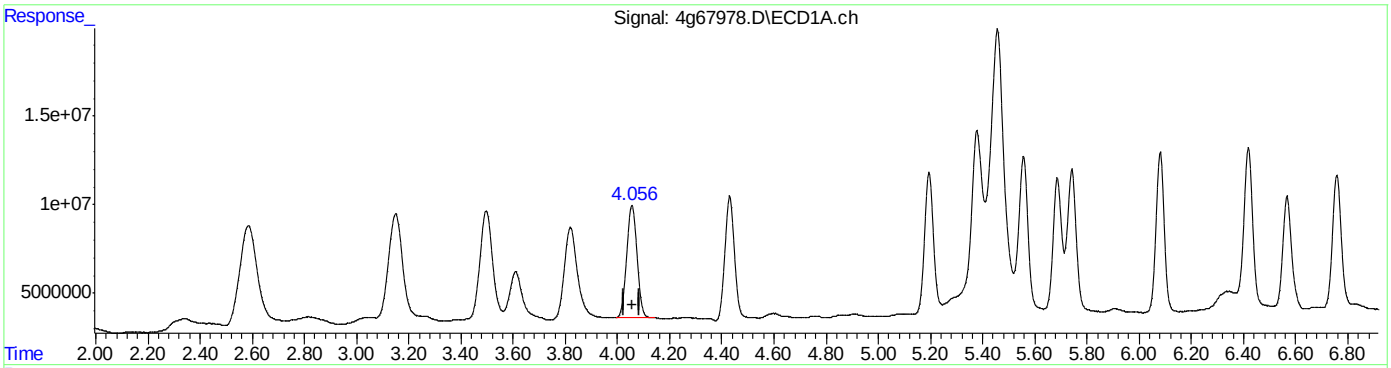
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:33:07 2016 RPT1

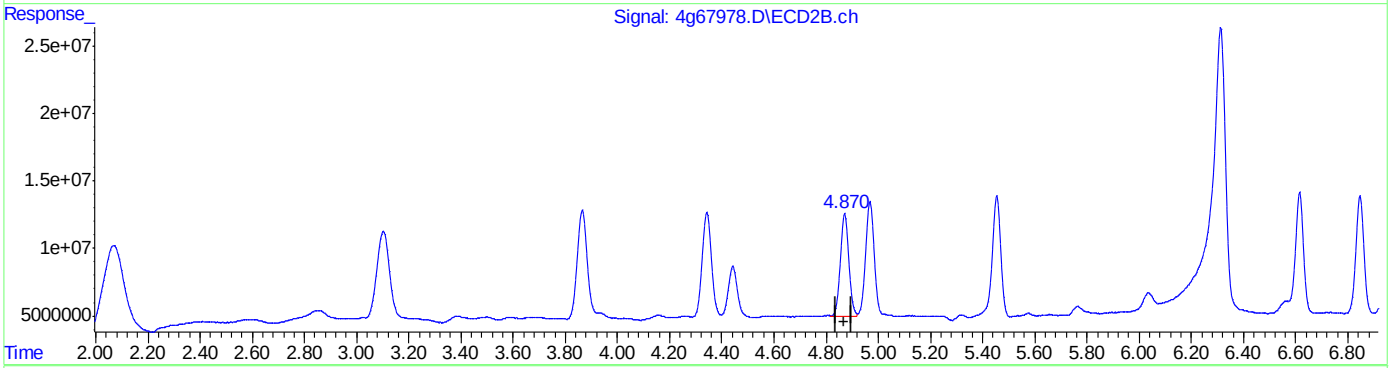
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67978.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:13 pm
Operator : dharas
Sample : op93694-msd
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:32:58 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

(7) delta-BHC (B)
4.057min 27.374 PPB
response 174229325

(7) delta-BHC #2 (B)
4.870min 22.049 PPB m
response 170615178

(+) = Expected Retention Time

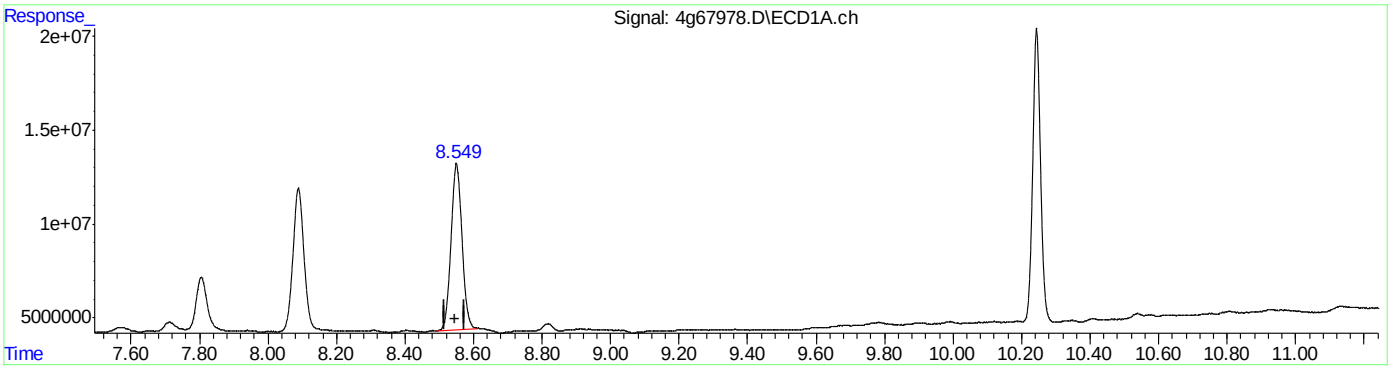
SGS ACCUTEST JC19759

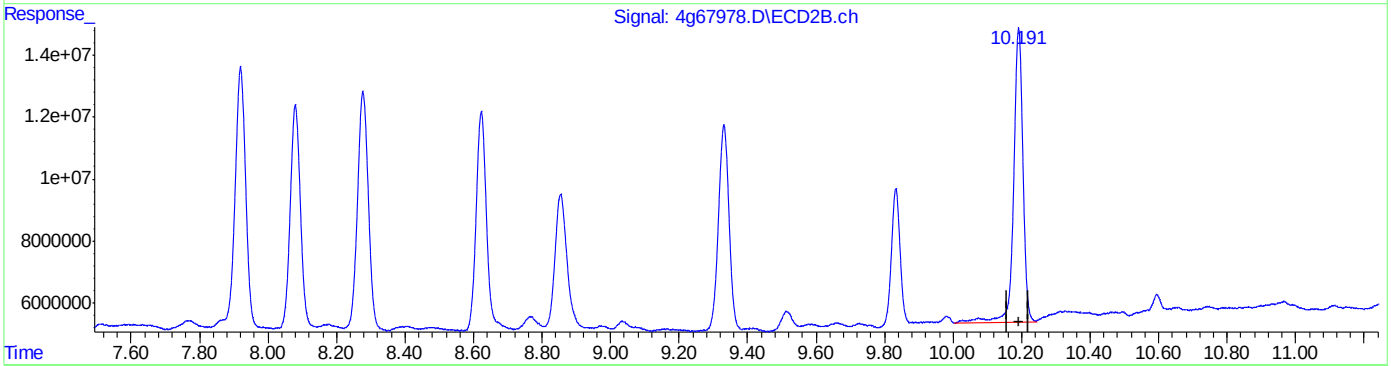
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67978.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:13 pm
Operator : dharas
Sample : op93694-msd
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:32:58 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

(23) Endrin Ketone (B)
8.550min 32.210 PPB
response 196600894

(23) Endrin Ketone #2 (B)
10.192min 30.370 PPB
response 180539933

(+) = Expected Retention Time

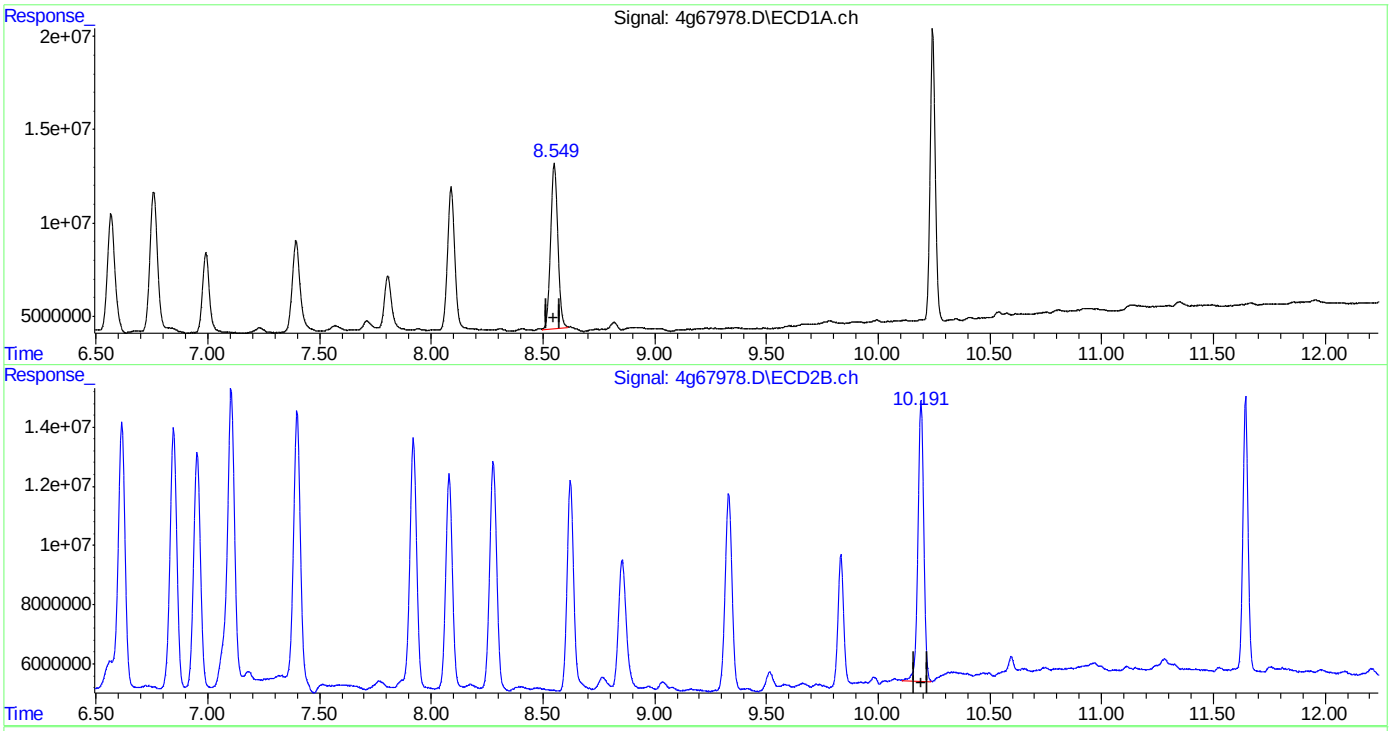
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67978.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 4:13 pm
Operator : dharas
Sample : op93694-msd
Misc : op93694,g4g1782,150,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:32:58 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



(23) Endrin Ketone (B)
8.550min 32.210 PPB
response 196600894

(23) Endrin Ketone #2 (B)
10.191min 28.869 PPB m
response 171619289

(+) = Expected Retention Time
4PST1778.M Fri May 06 18:33:40 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:31:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.785f	2.062	328.2E6	300.2E6	50.000	50.000
25) I	1-bromo-2...	1.785	2.062	328.2E6	300.2E6	50.000	50.000
31) I	1-bromo-2...	1.785	2.062	328.2E6	300.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.586	3.101	126.8E6	120.2E6	22.413m	22.735m
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	56.03%	56.84%
24) SA	Decachlor...	10.262	11.666	153.3E6	107.1E6	28.756m	28.560
	Spiked Amount 40.000			Recovery	=	71.89%	71.40%
	Target Compounds						
13) B	4,4'-DDE	5.705	7.115	4928073	5619299	0.851	0.922m
15) MA	Endrin	6.446f	7.932	357.9E6	325.0E6	61.726	59.920
16) A	4,4'-DDD	6.578	8.089	10193689	13113095	2.077	2.663 #
18) MA	4,4'-DDT	7.006	8.635	619.9E6	599.9E6	121.777	139.372
19) B	Endrin Al...	7.417	8.867	4622381	4711235	0.981m	1.157m
23) B	Endrin Ke...	8.571	10.201	15245220	18350578	2.578	3.725m#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

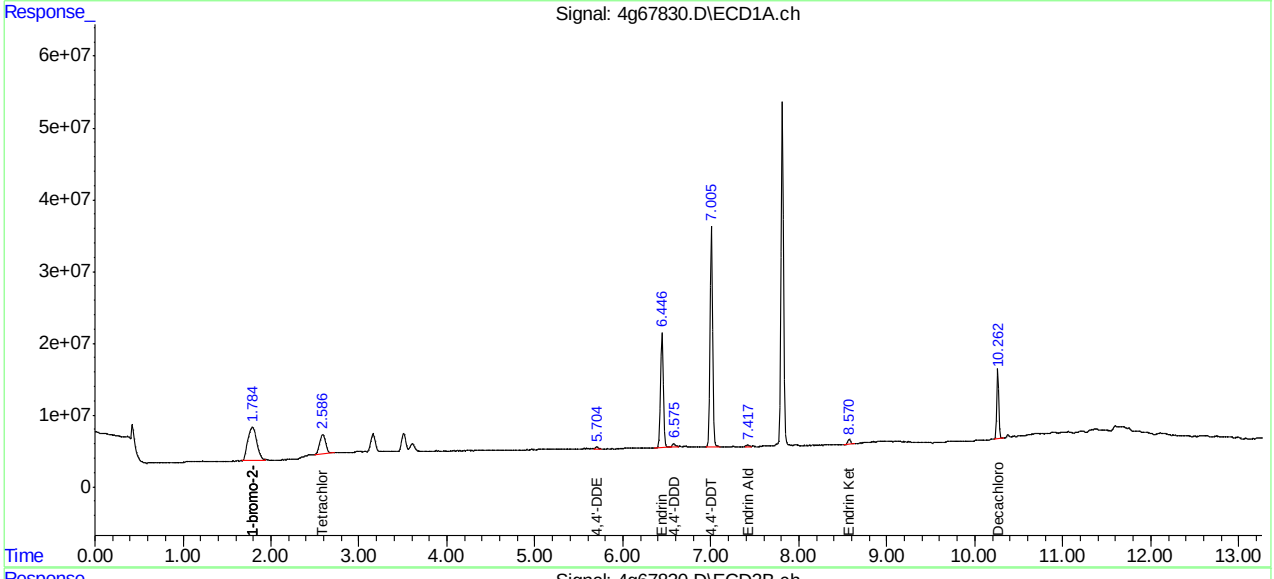
9.5.1
9

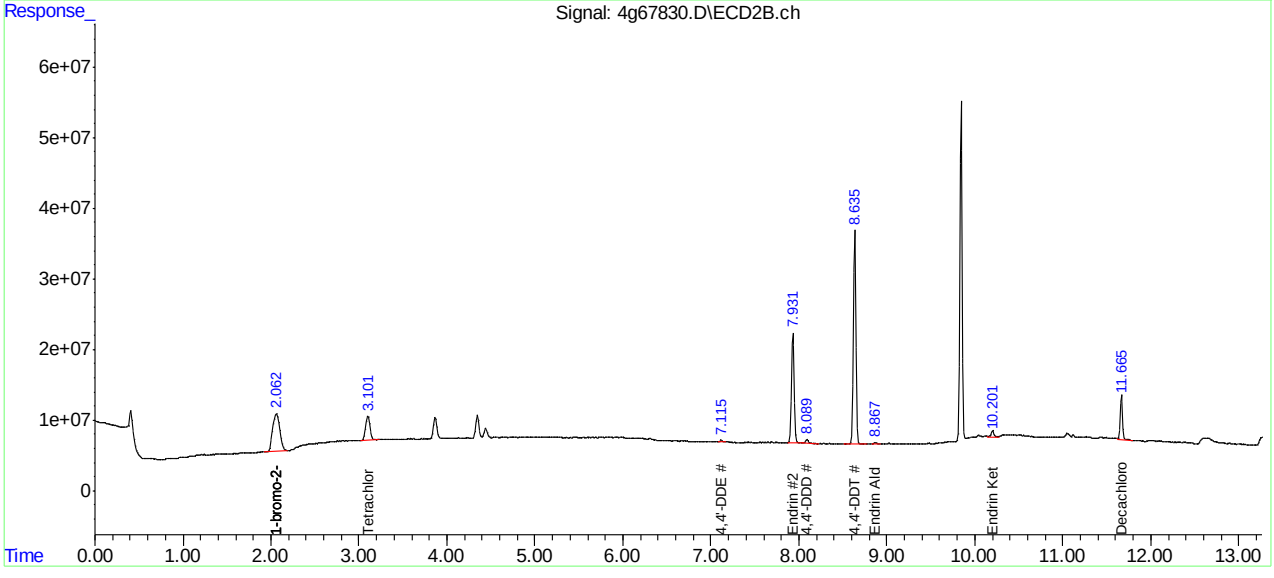
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:31:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-DDT	**Method:**	SW846 8081B
Lab FileID:	4G67830.D	**Analyst approved:**	05/03/16 15:32 Joseph Ravino
Injection Time:	05/02/16 13:55	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

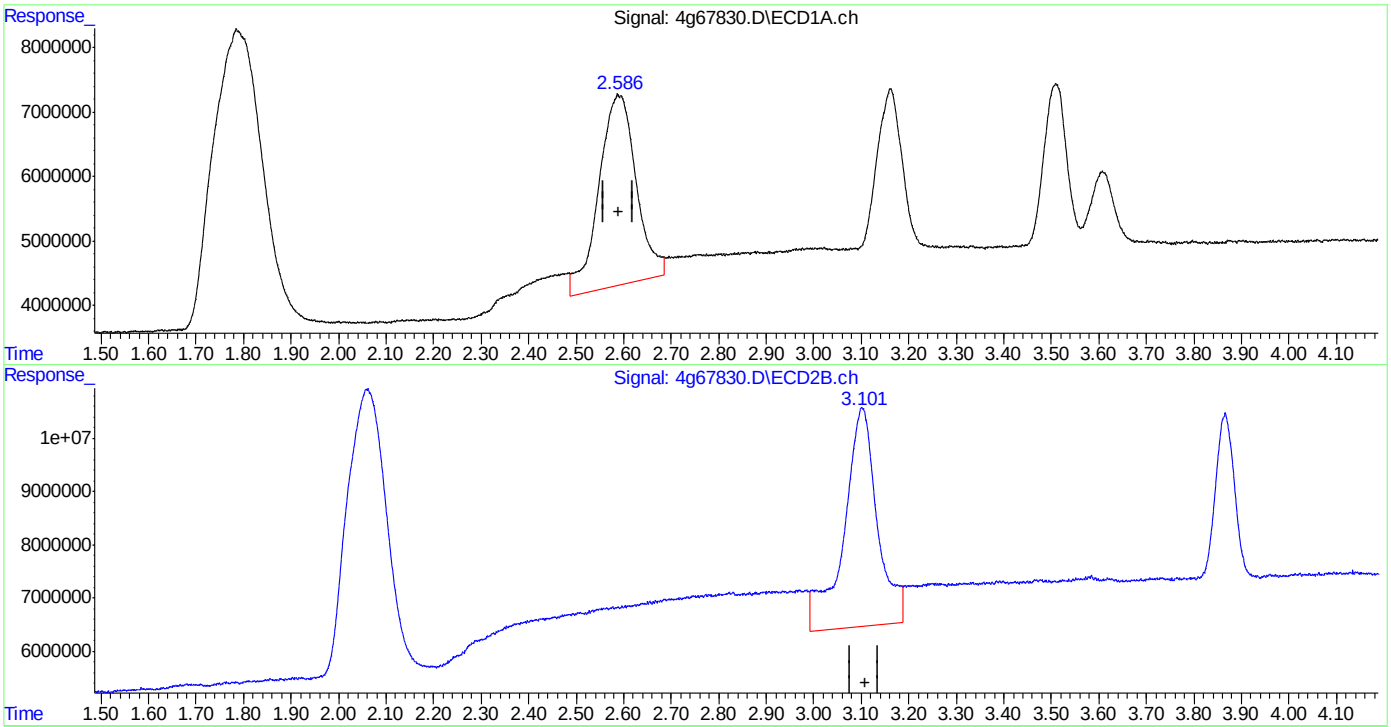
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	3.10	Poorly defined baseline
4,4'-DDE	72-55-9	2	7.12	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	7.42	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	8.87	Poorly defined baseline
Endrin ketone	53494-70-5	2	10.20	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.26	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   1:55 pm
Operator  : dharas
Sample    : ddt
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(2) Tetrachloro-m-xylene (SAB)

2.587min 28.485 PPB

response 161188028

(2) Tetrachloro-m-xylene #2 (SAB)

3.101min 38.318 PPB

response 202621898

(+) = Expected Retention Time

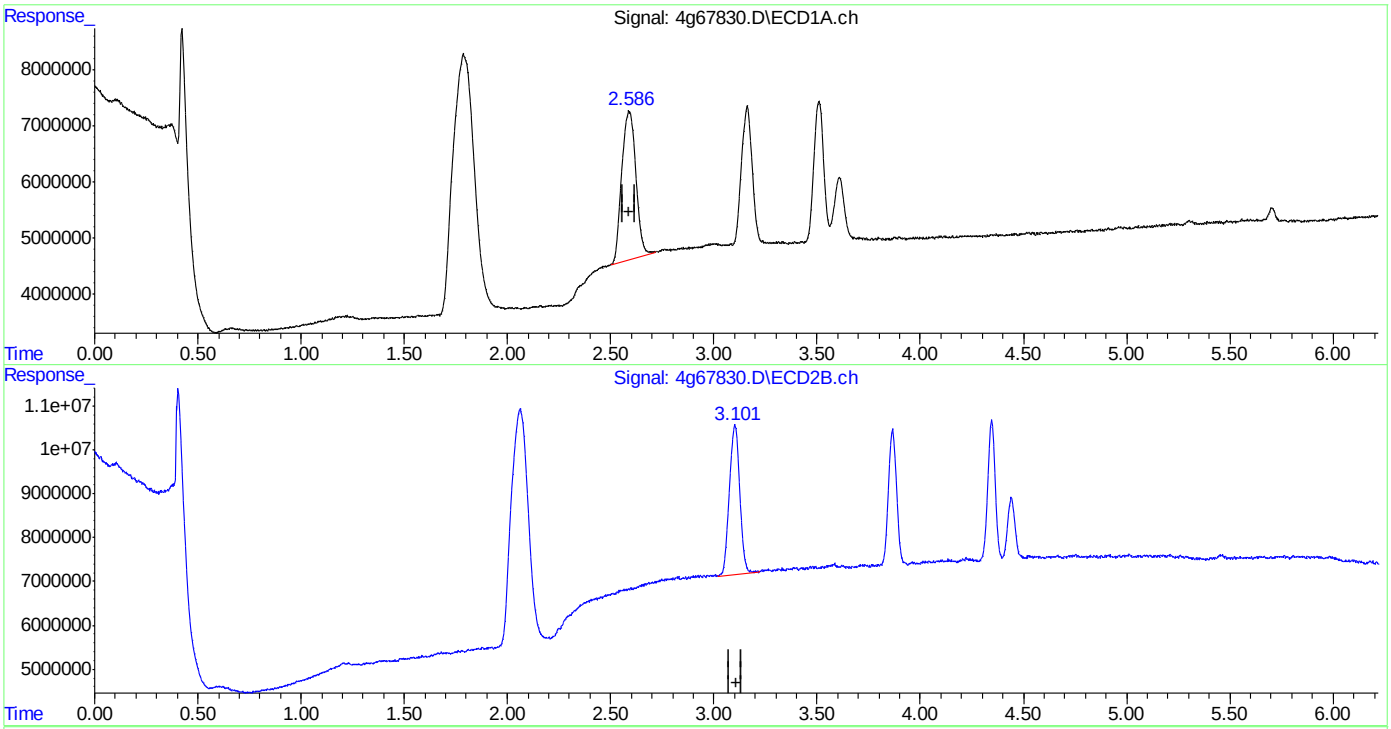
4PST1778.M Tue May 03 15:29:00 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.586min 22.413 PPB m
response 126825495

(2) Tetrachloro-m-xylene #2 (SAB)
3.101min 22.735 PPB m
response 120220429

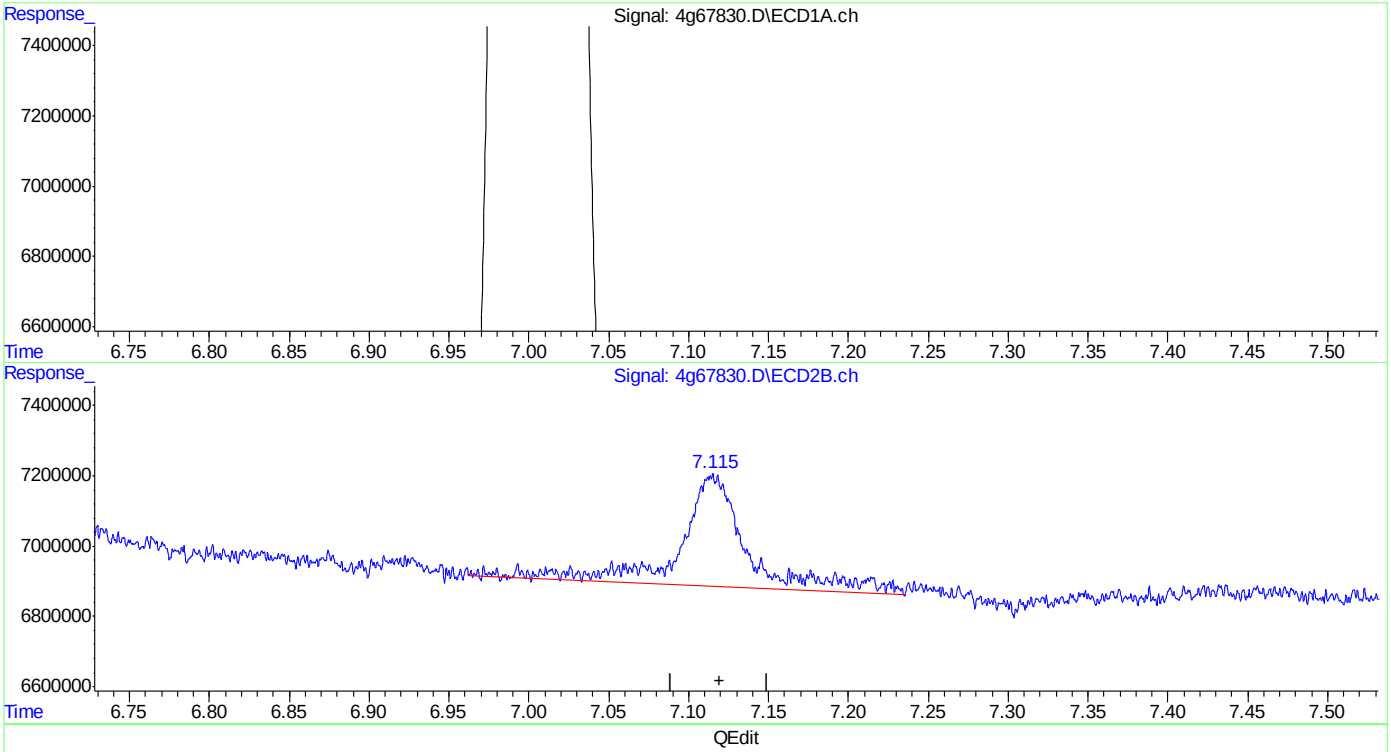
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:29:10 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(13) 4,4'-DDE (B)
5.705min 0.851 PPB
response 4928073

(13) 4,4'-DDE #2 (B)
7.115min 1.548 PPB
response 9432058

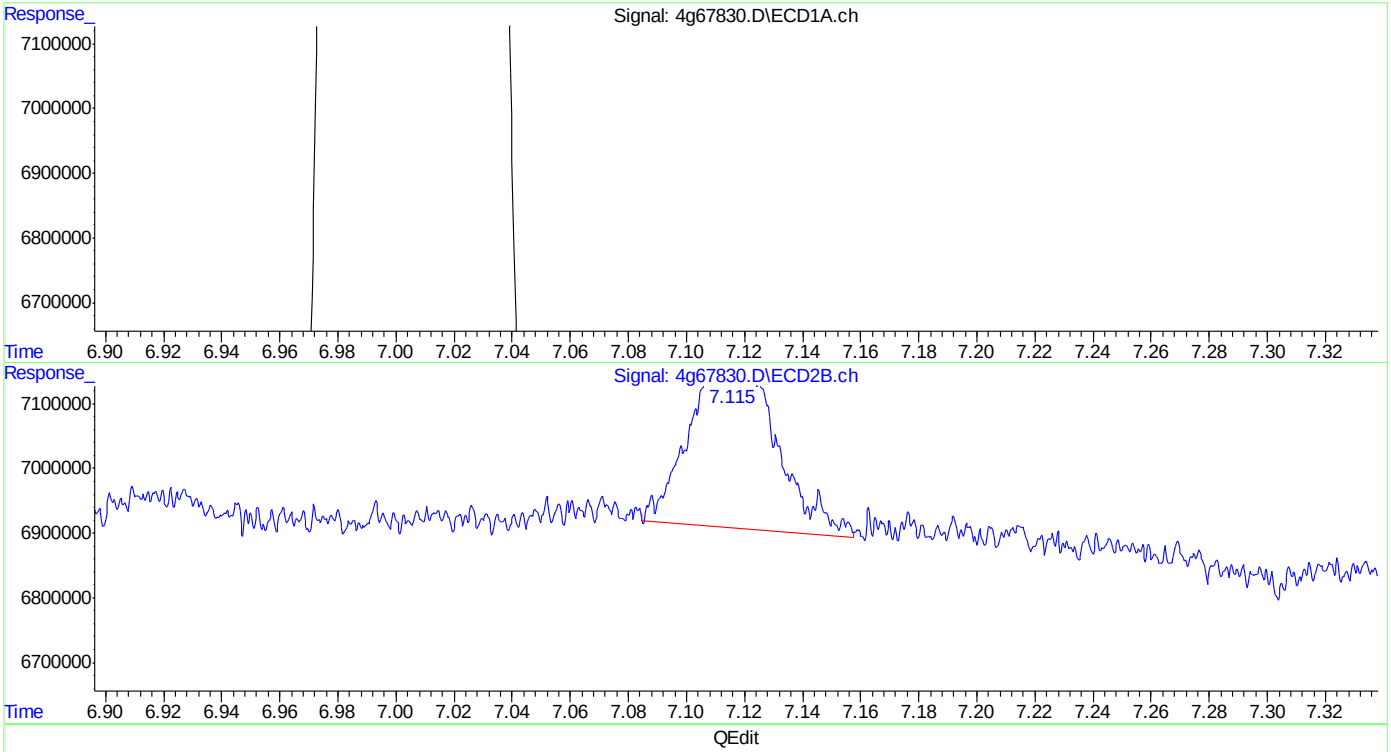
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   1:55 pm
Operator  : dharas
Sample    : ddt
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(13) 4,4'-DDE (B)
5.705min 0.851 PPB
response 4928073

(13) 4,4'-DDE #2 (B)
7.115min 0.922 PPB m
response 5619299

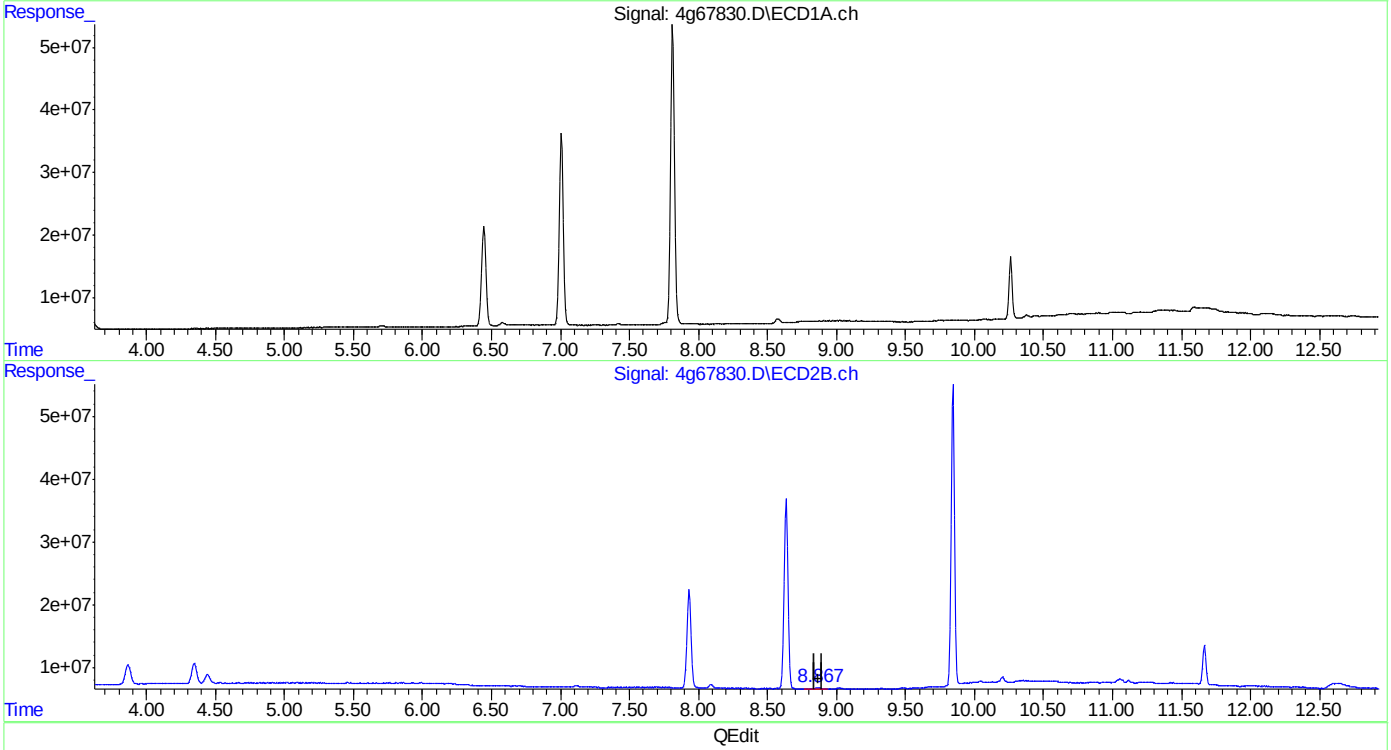
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(19) Endrin Aldehyde (B)
0.000min 0.000 PPB
response 0

(19) Endrin Aldehyde #2 (B)
8.867min 1.311 PPB
response 5341379

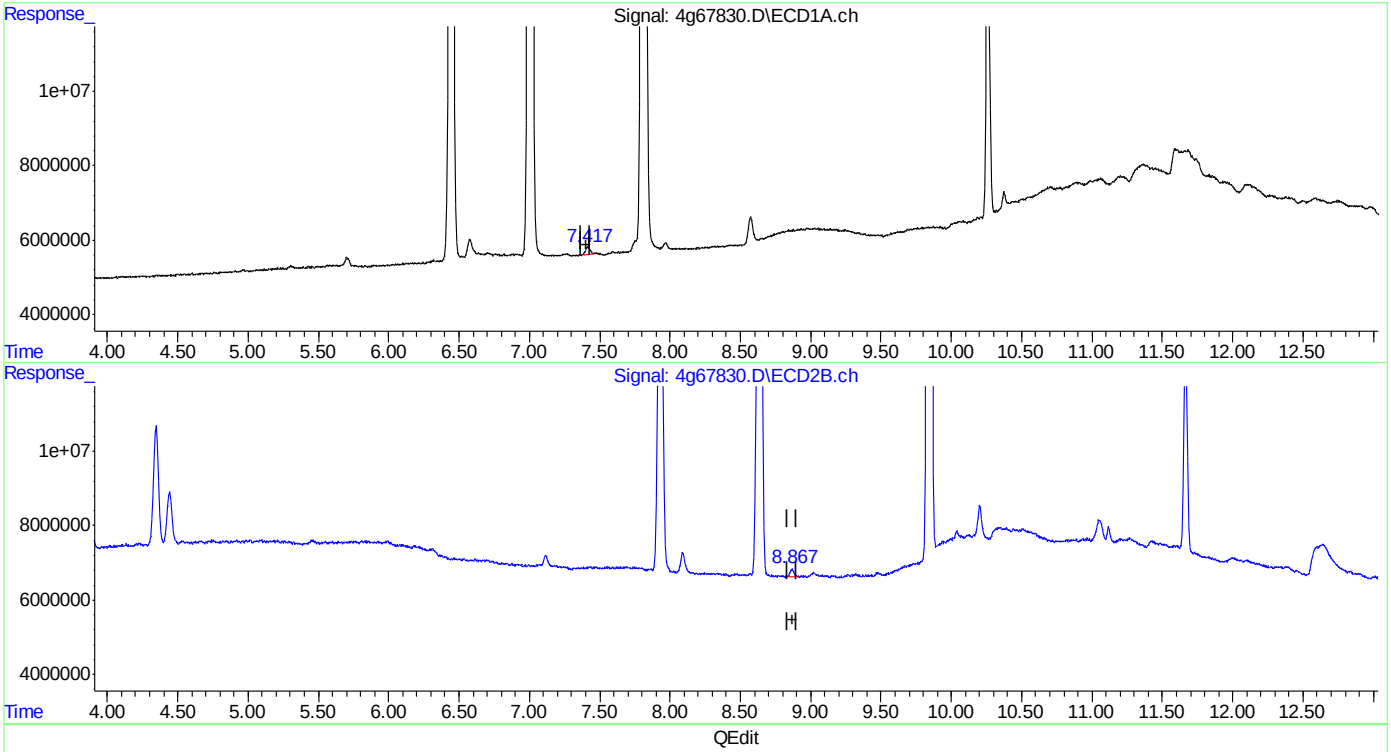
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:30:09 2016 RPT1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   1:55 pm
Operator  : dharas
Sample    : ddt
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(19) Endrin Aldehyde (B)

7.417min 0.981 PPB m

response 4622381

(19) Endrin Aldehyde #2 (B)

8.867min 1.157 PPB m

response 4711235

(+) = Expected Retention Time

4PST1778.M Tue May 03 15:30:41 2016 RPT1

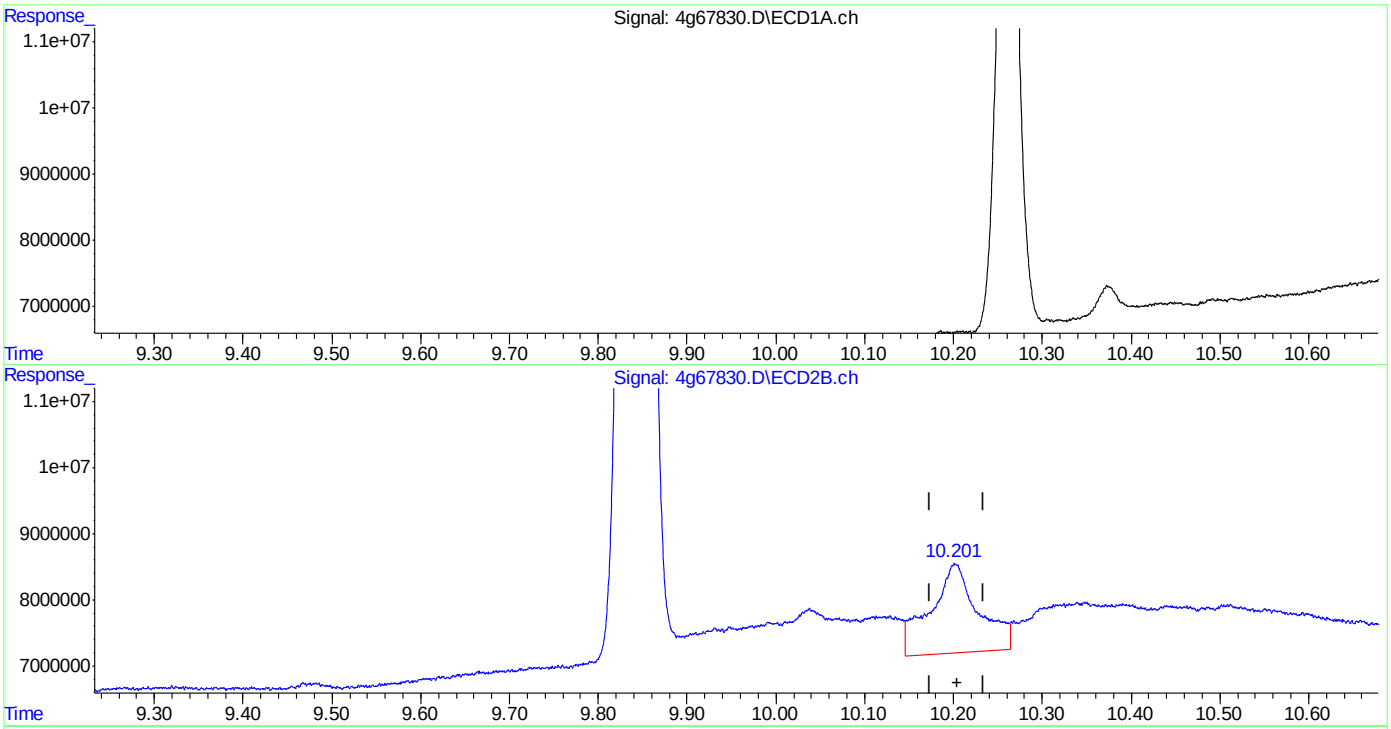
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   1:55 pm
Operator  : dharas
Sample    : ddt
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



(23) Endrin Ketone (B)
8.571min 2.578 PPB
response 15245220

(23) Endrin Ketone #2 (B)
10.202min 10.275 PPB
response 50617081

(+) = Expected Retention Time

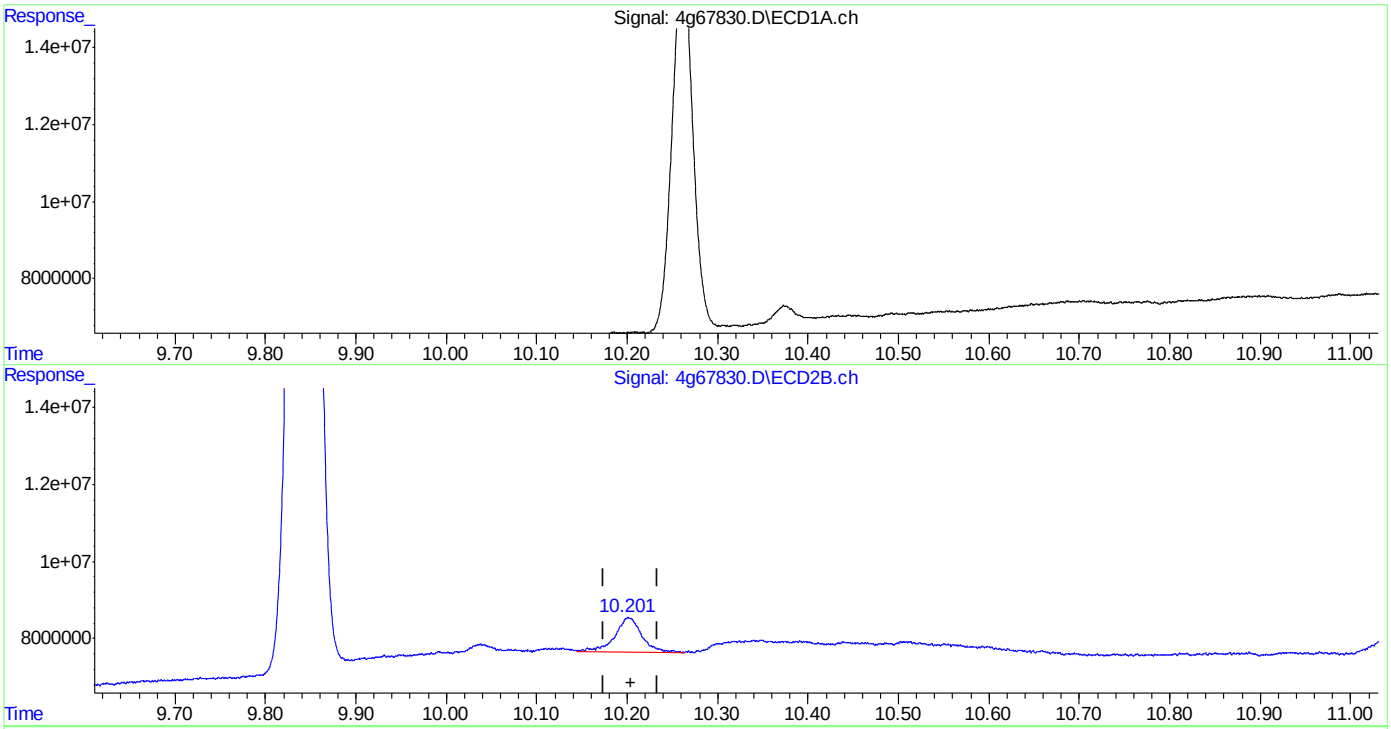
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(23) Endrin Ketone (B)
8.571min 2.578 PPB
response 15245220

(23) Endrin Ketone #2 (B)
10.201min 3.725 PPB m
response 18350578

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:30:56 2016 RPT1

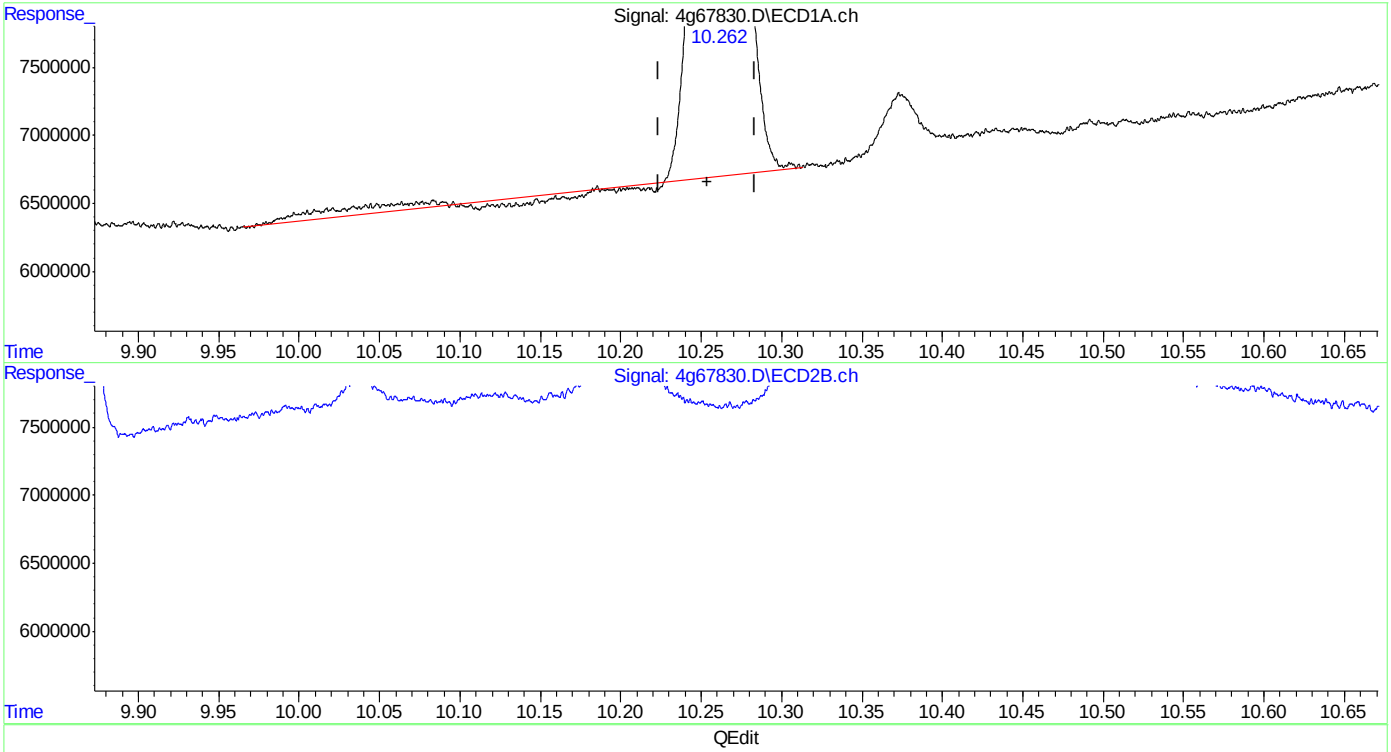
SGS ACCUTEST JC19759

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

(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

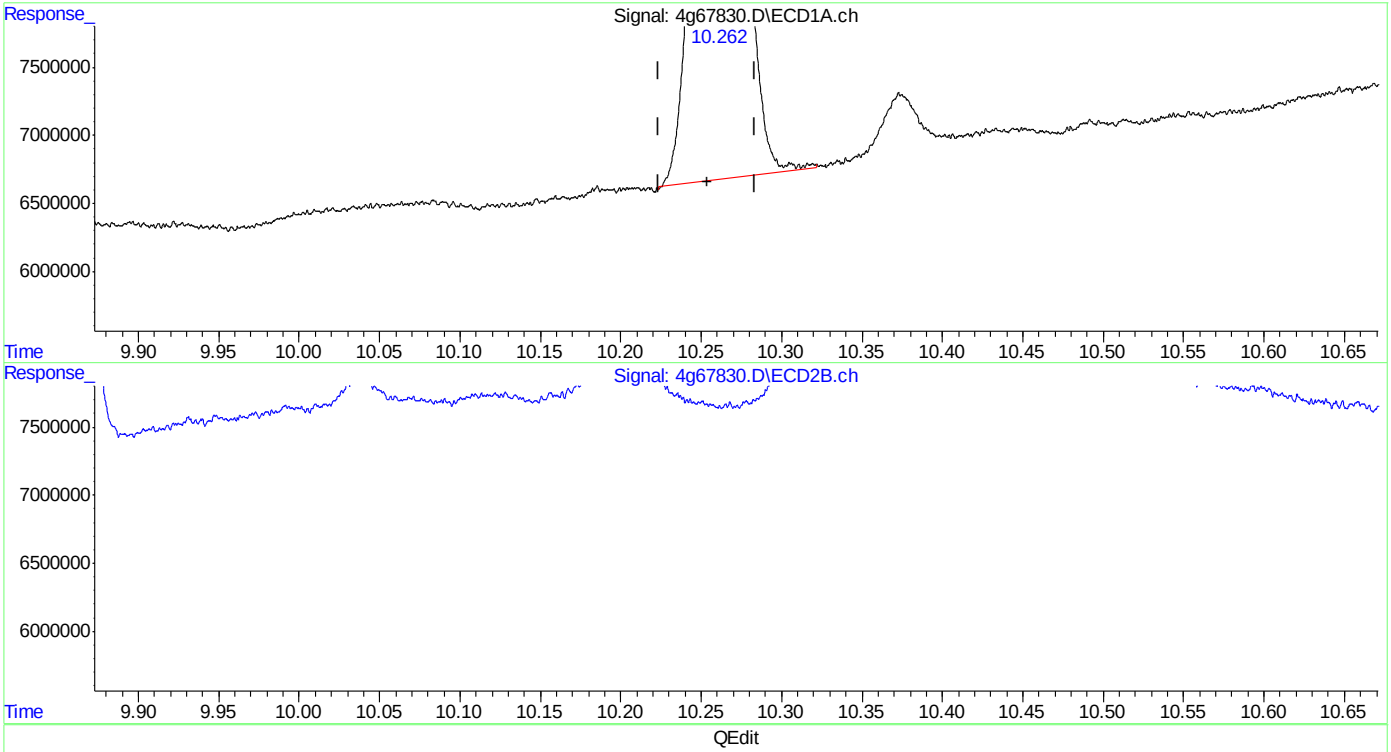
SGS ACCUTEST JC19759

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
4PST1778.M Tue May 03 15:31:12 2016 RPT1

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

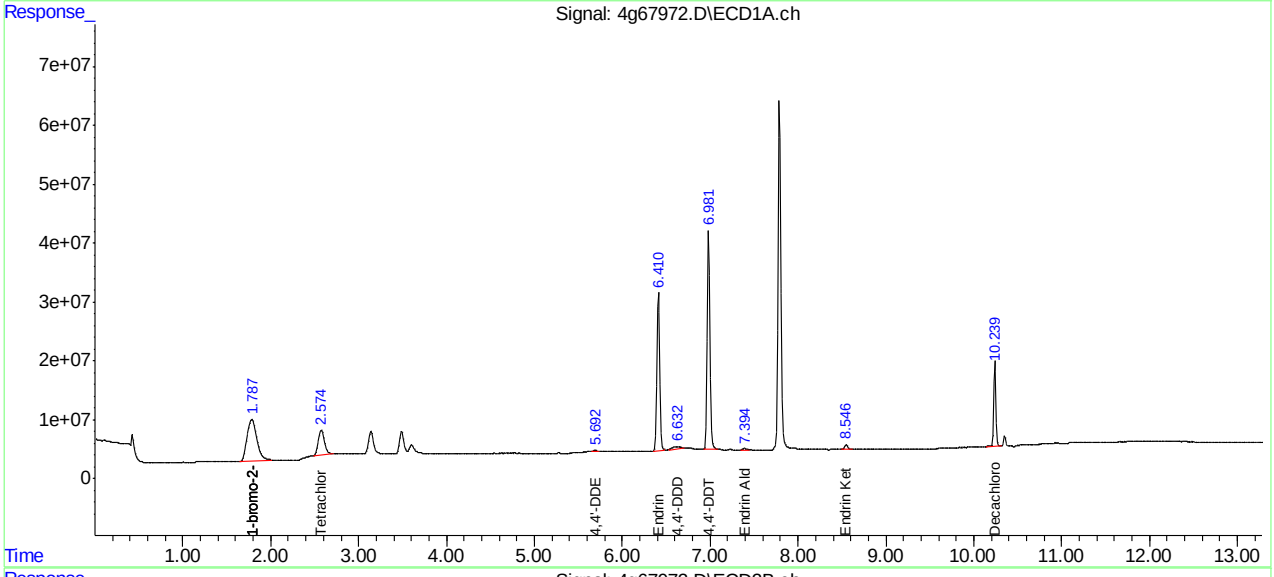
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

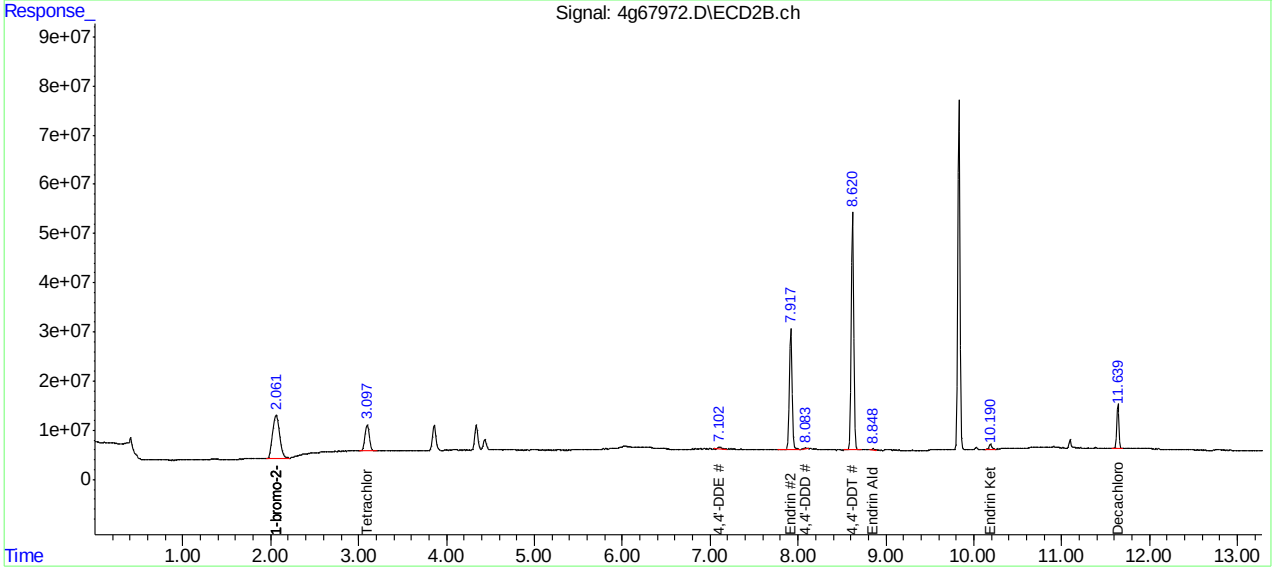
Quantitation Report (QT Reviewed)

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

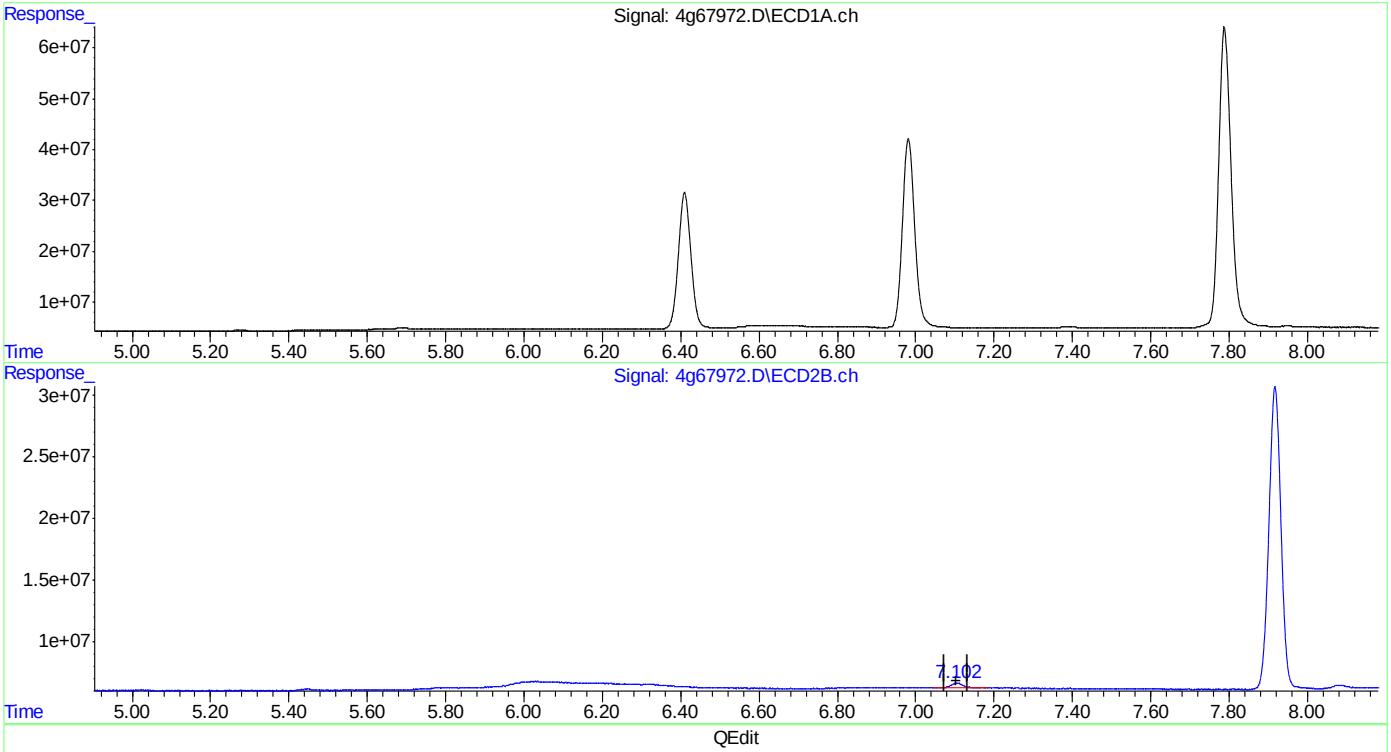
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	5.69	Poor instrument integration
4,4'-DDD	72-54-8	1	6.63	Poor instrument integration
4,4'-DDD	72-54-8	2	8.08	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.85	Poor instrument integration

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

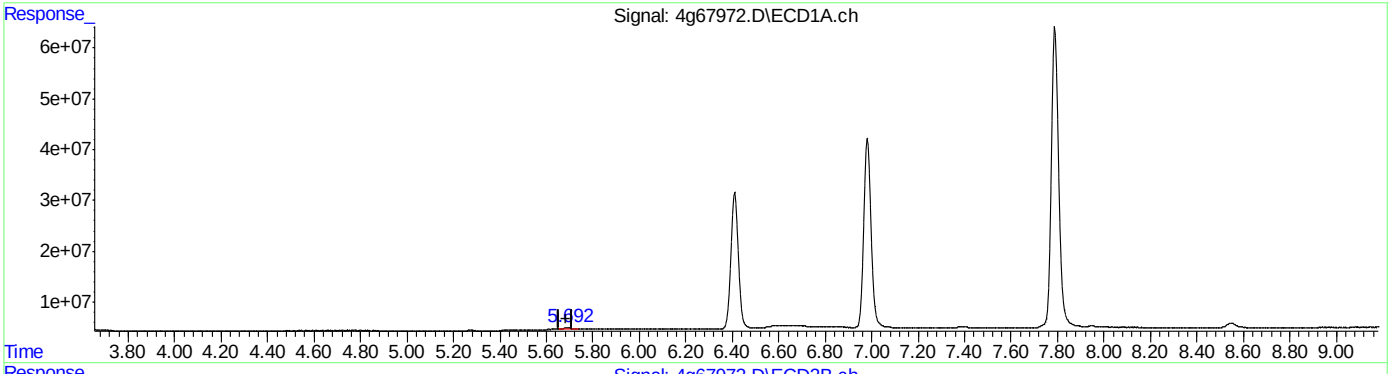
SGS ACCUTEST JC19759

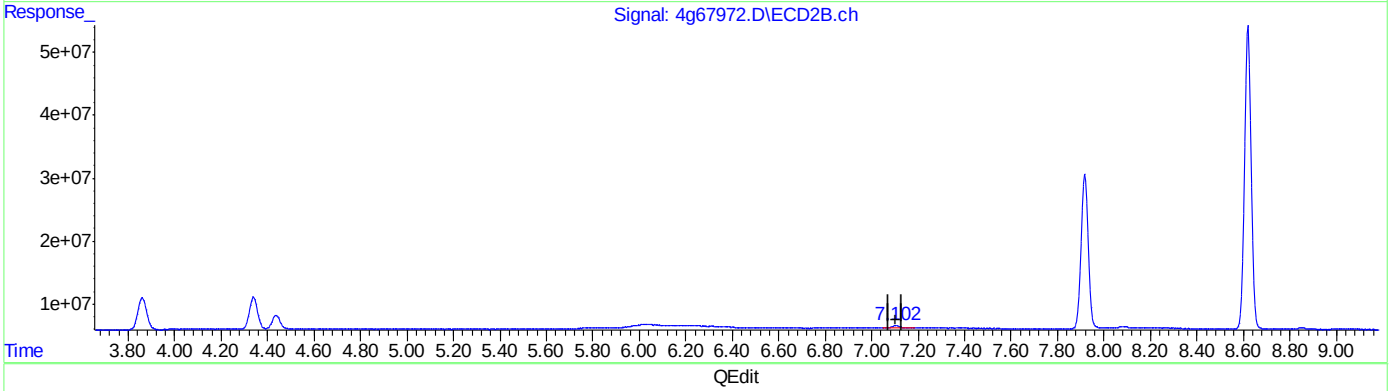
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 May 2016   2:42 pm
Operator  : dharas
Sample    : ddt
Misc      : op93657,g4g1782,100,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```





QEdit

(13) 4,4'-DDE (B)

5.692min 0.569 PPB m

response 5367484

(13) 4,4'-DDE #2 (B)

7.104min 0.871 PPB

response 8646322

(+) = Expected Retention Time

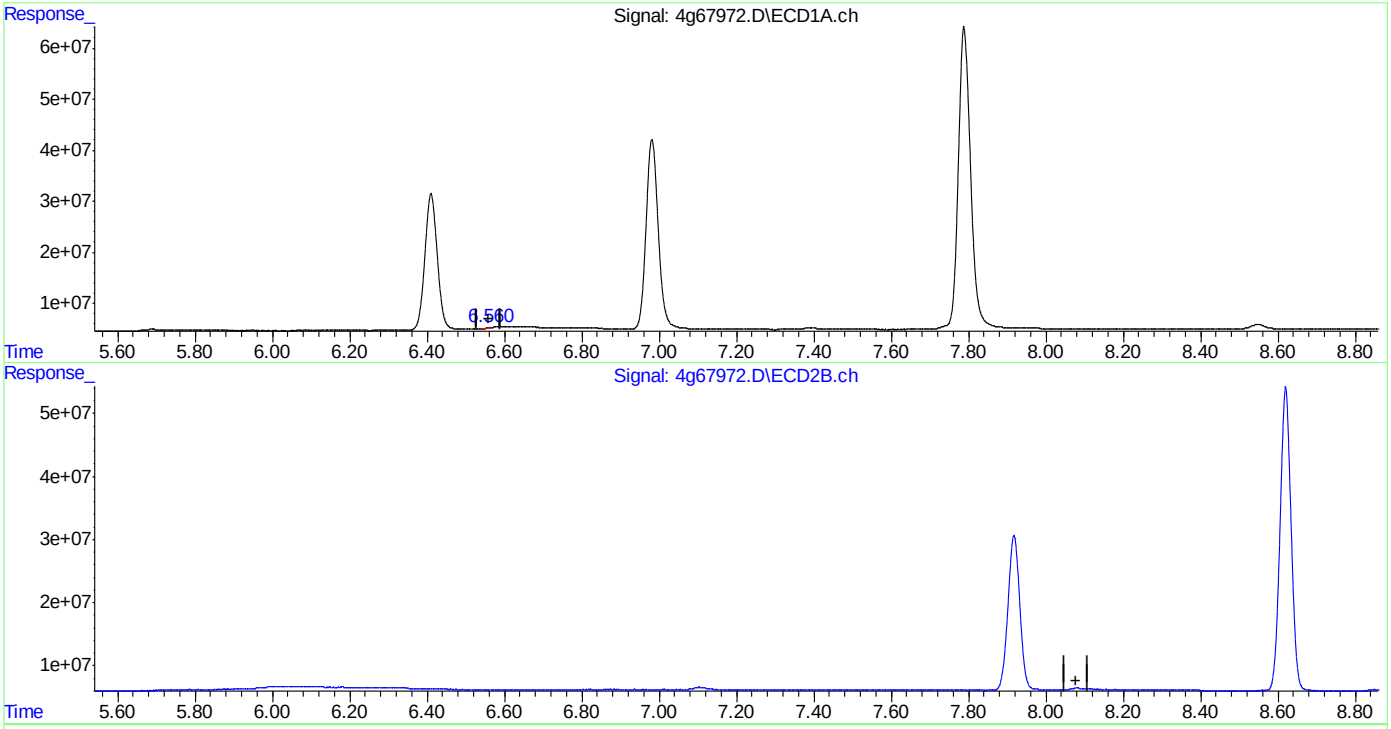
4PST1778.M Fri May 06 18:18:47 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(16) 4,4'-DDD (A)
6.561min 0.065 PPB
response 522307

(16) 4,4'-DDD #2 (A)
0.000min 0.000 PPB
response 0

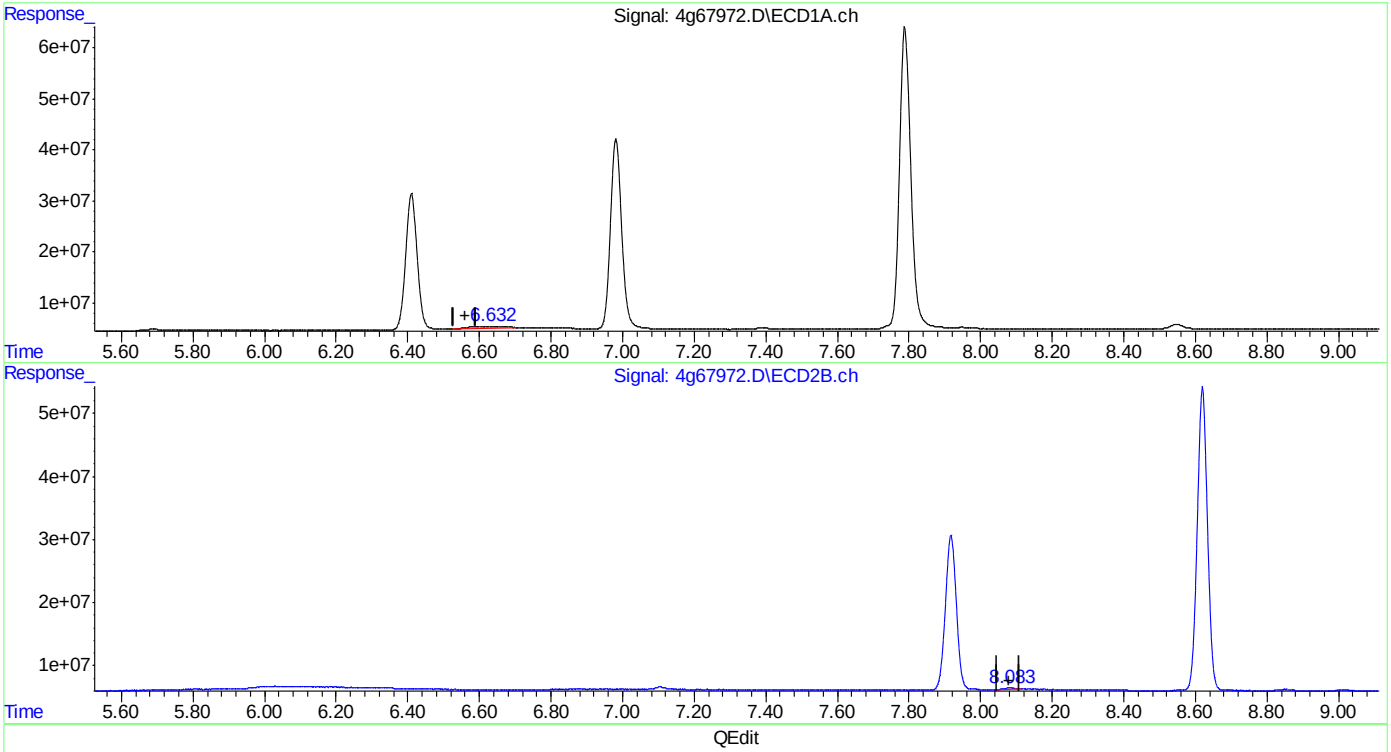
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(16) 4,4'-DDD (A)
6.632min 2.766 PPB m
response 22121084

(16) 4,4'-DDD #2 (A)
8.083min 0.619 PPB m
response 4963083

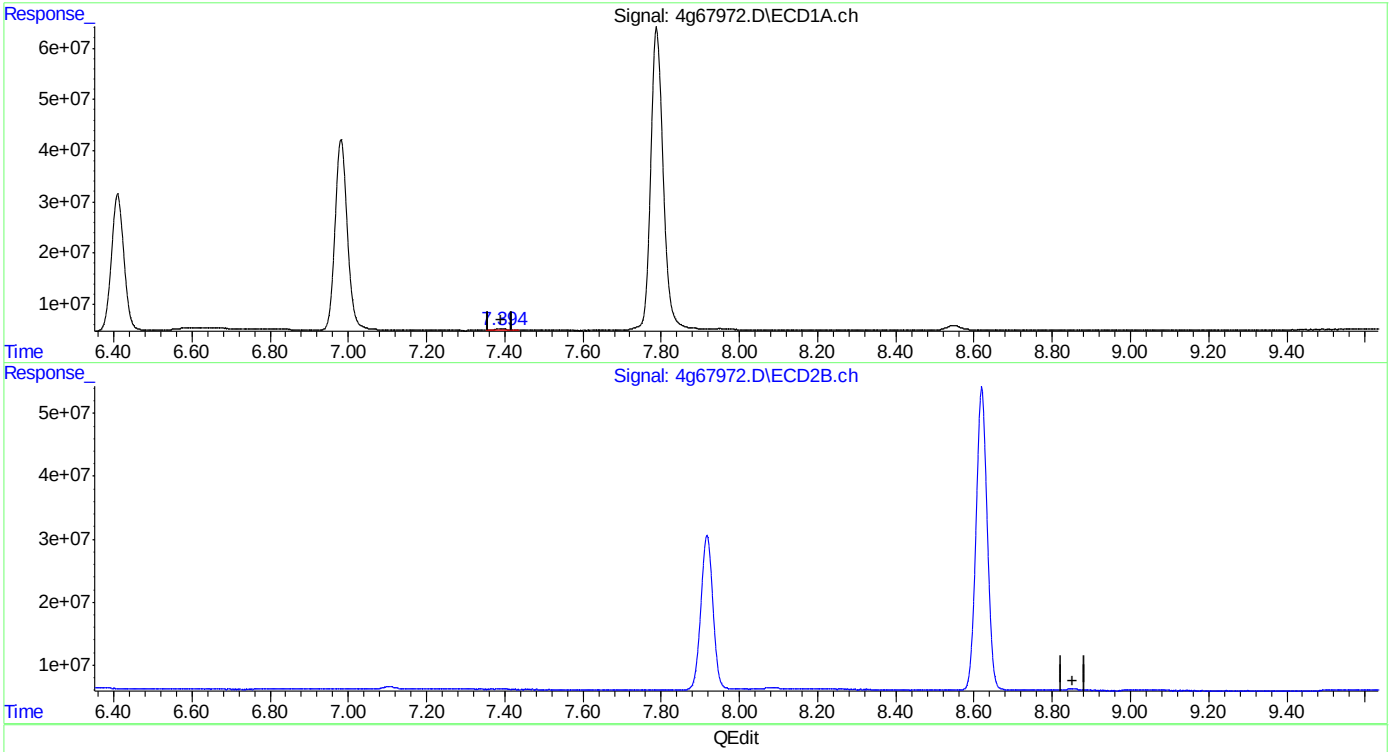
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.394min 0.728 PPB
response 5587284

(19) Endrin Aldehyde #2 (B)
0.000min 0.000 PPB
response 0

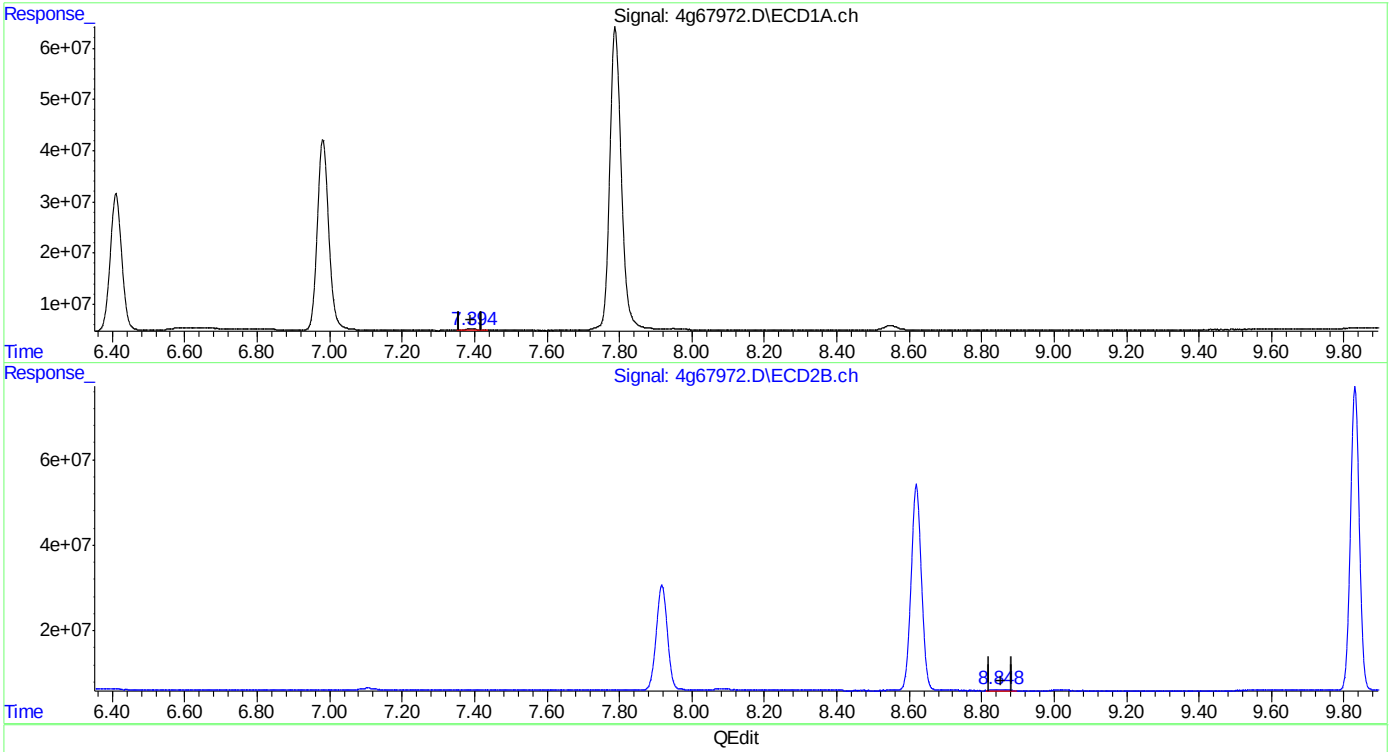
(+) = Expected Retention Time
4PST1778.M Fri May 06 18:19:37 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 2:42 pm
Operator : dharas
Sample : ddt
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 18:17:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.394min 0.728 PPB
response 5587284

(19) Endrin Aldehyde #2 (B)
8.848min 0.811 PPB m
response 5381880

(+) = Expected Retention Time
4PST1778.M Fri May 06 18:19:52 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
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

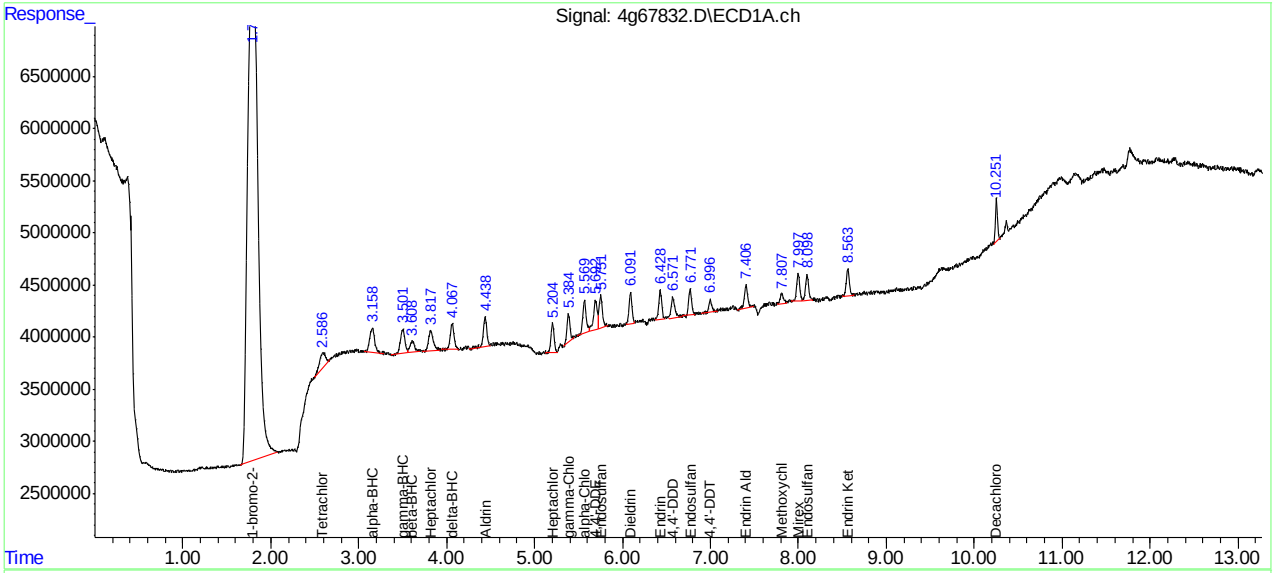
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

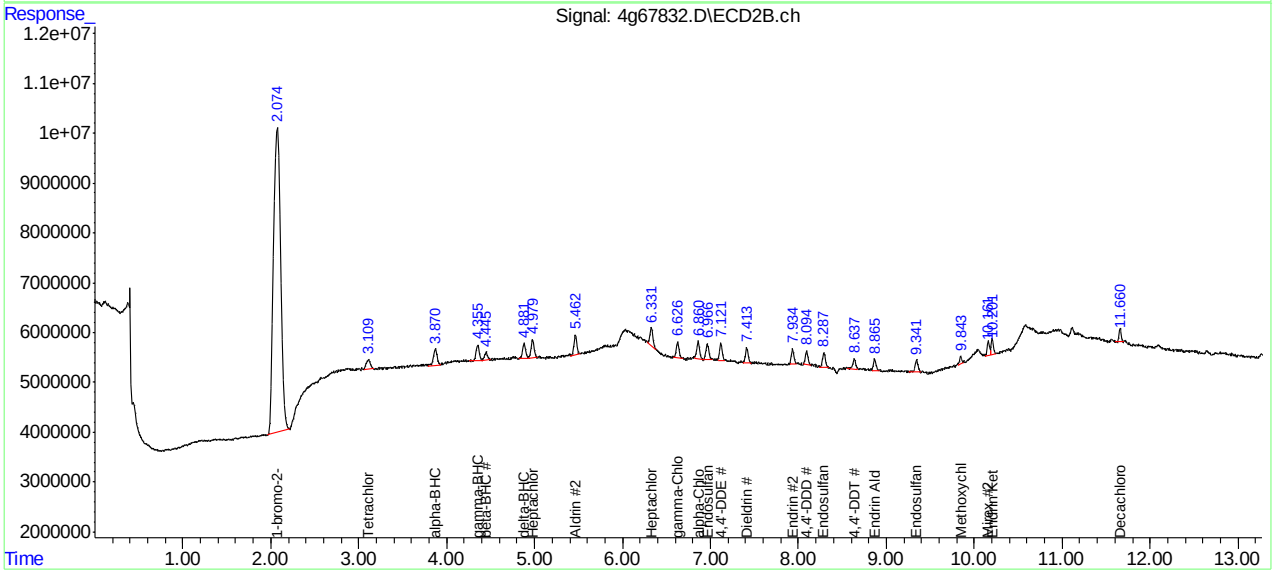
Quantitation Report (QT Reviewed)

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

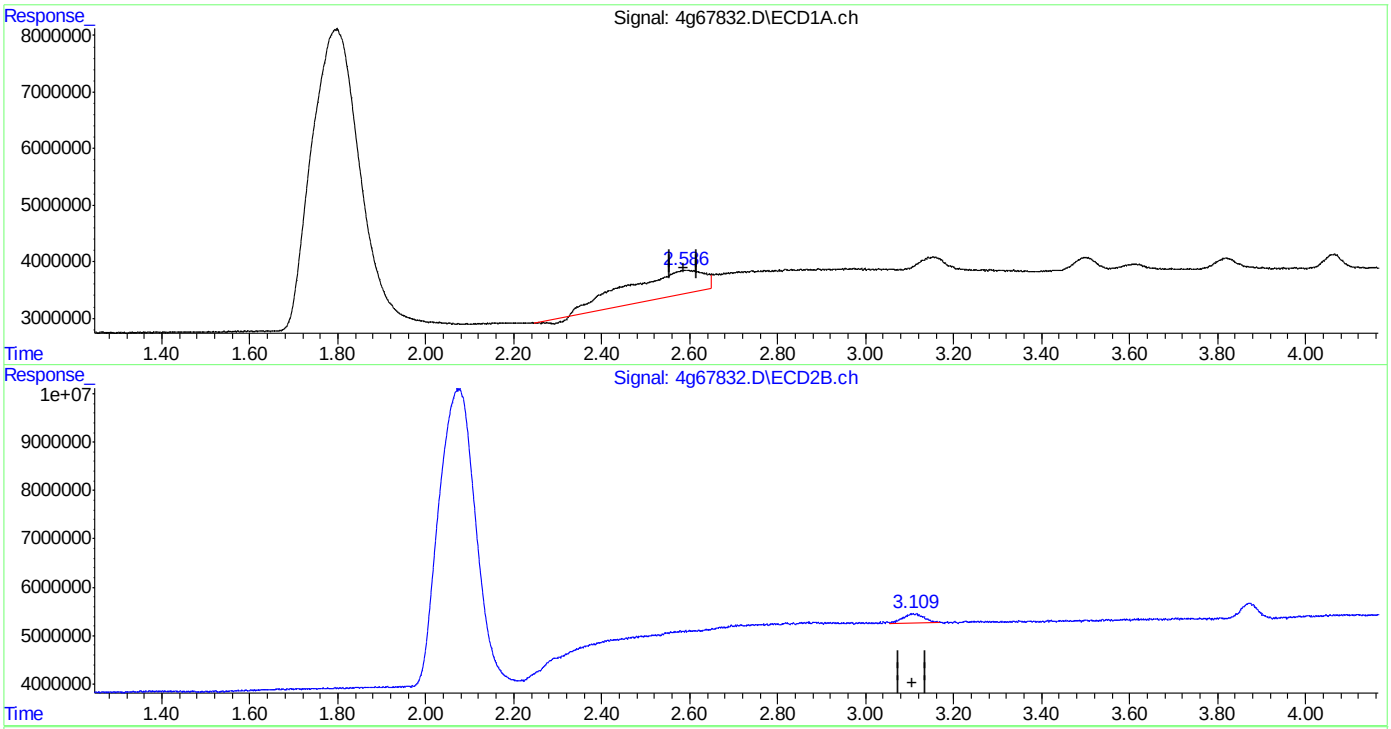
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
gamma-Chlordane	5103-74-2	1	5.38	Poorly defined baseline
Dieldrin	60-57-1	1	6.09	Poorly defined baseline
Endrin	72-20-8	1	6.43	Poorly defined baseline
Methoxychlor	72-43-5	1	7.81	Poorly defined baseline
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

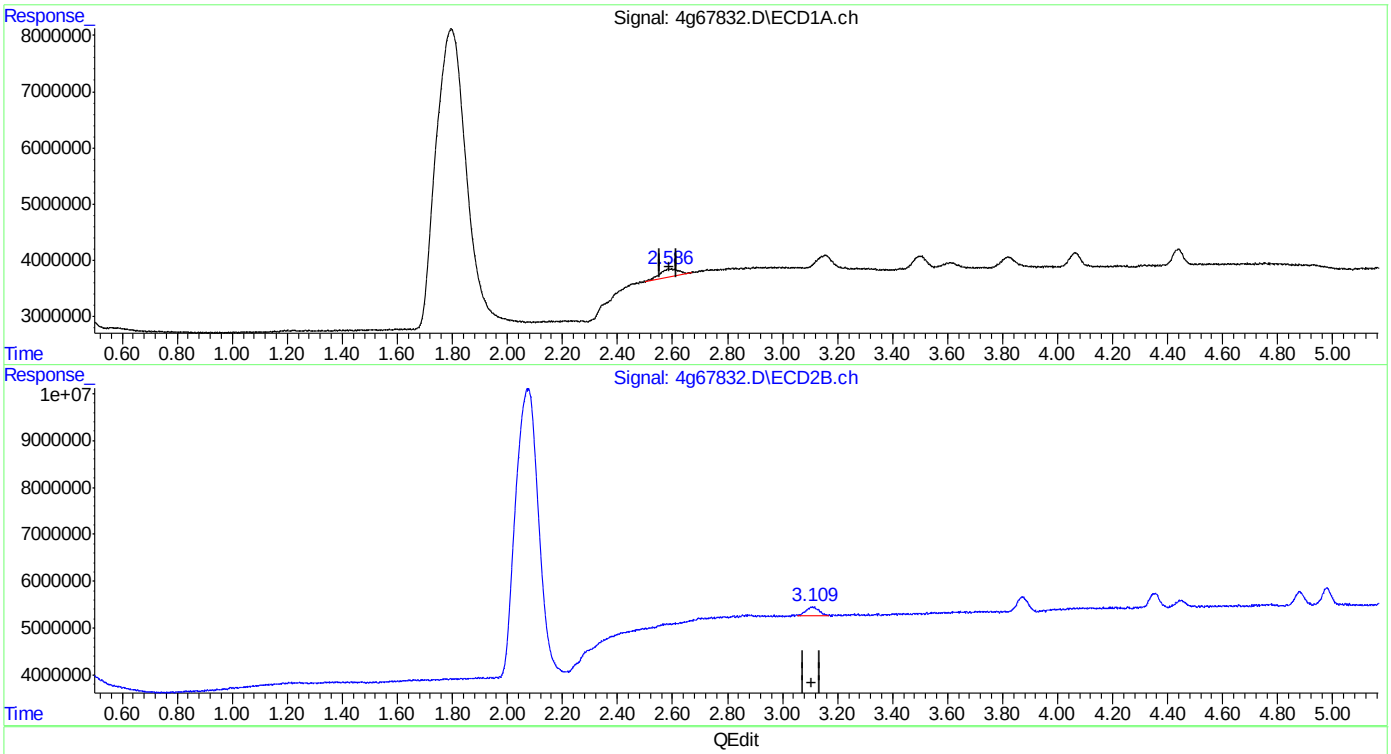
4PST1778.M Tue May 03 15:00:24 2016 RPT1

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

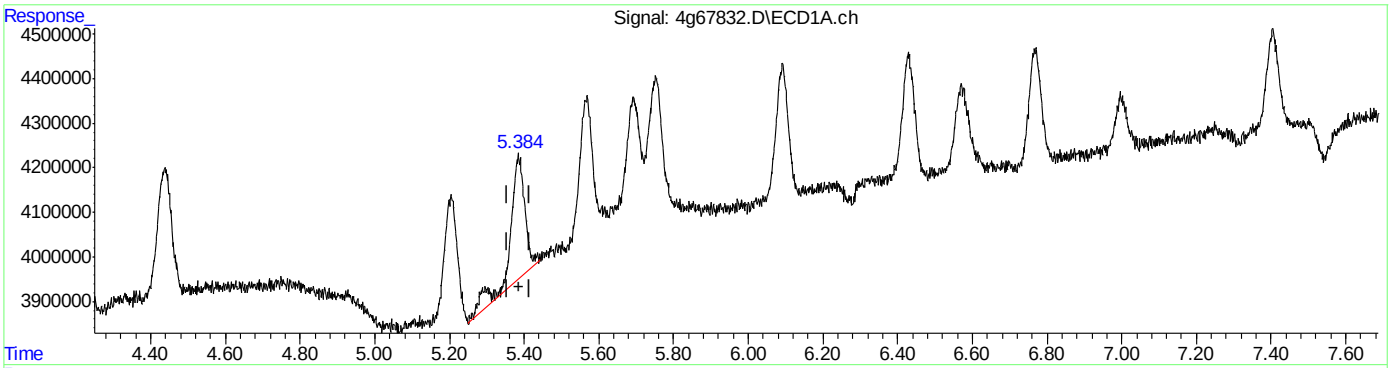
SGS ACCUTEST JC19759

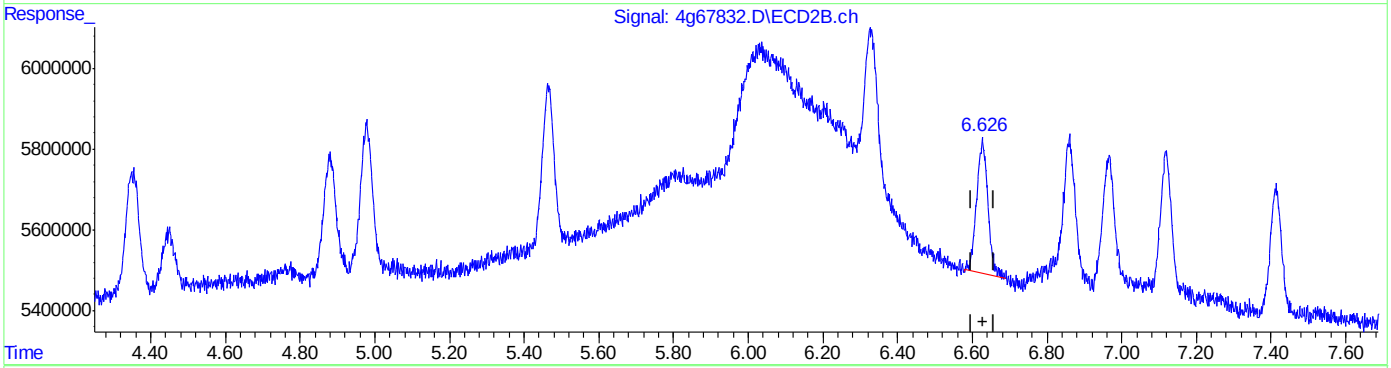
Quantitation Report (Qedit)

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

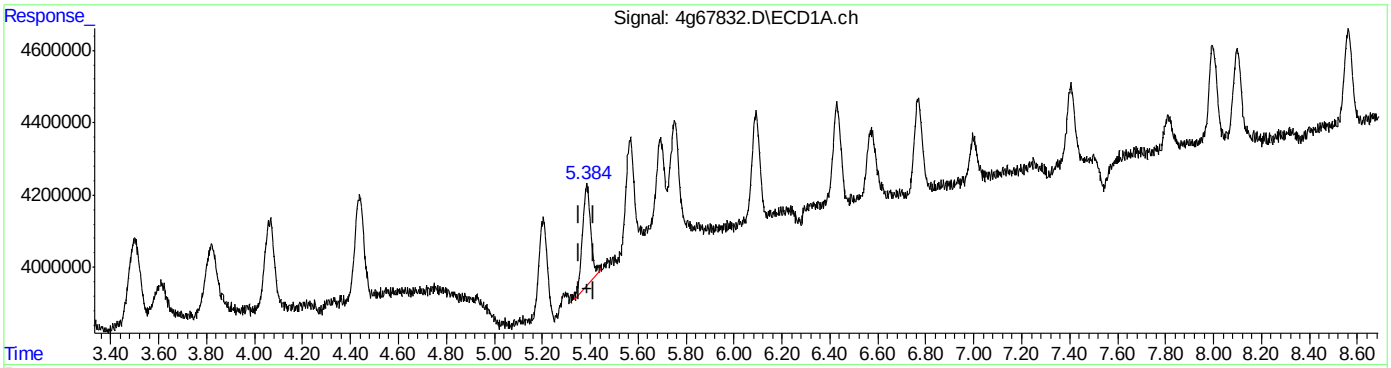
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:00:39 2016 RPT1

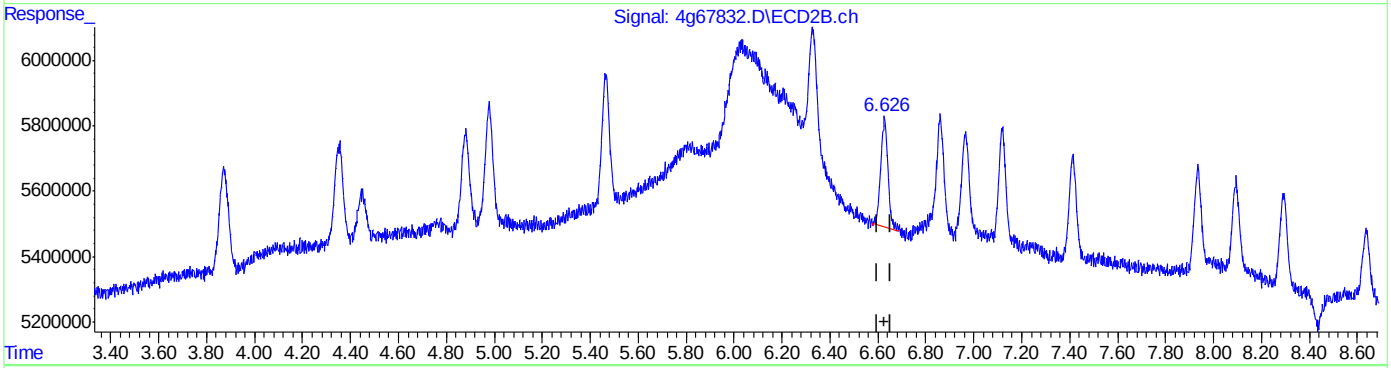
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(10) gamma-Chlordane (B)
5.384min 0.935 PPB m
response 6671076

(10) gamma-Chlordane #2 (B)
6.627min 0.997 PPB
response 6909544

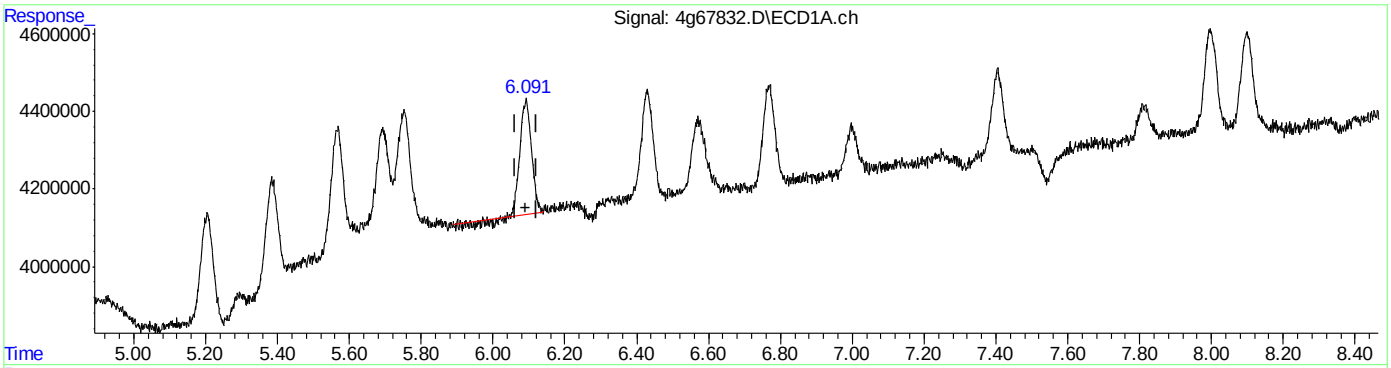
(+) = Expected Retention Time

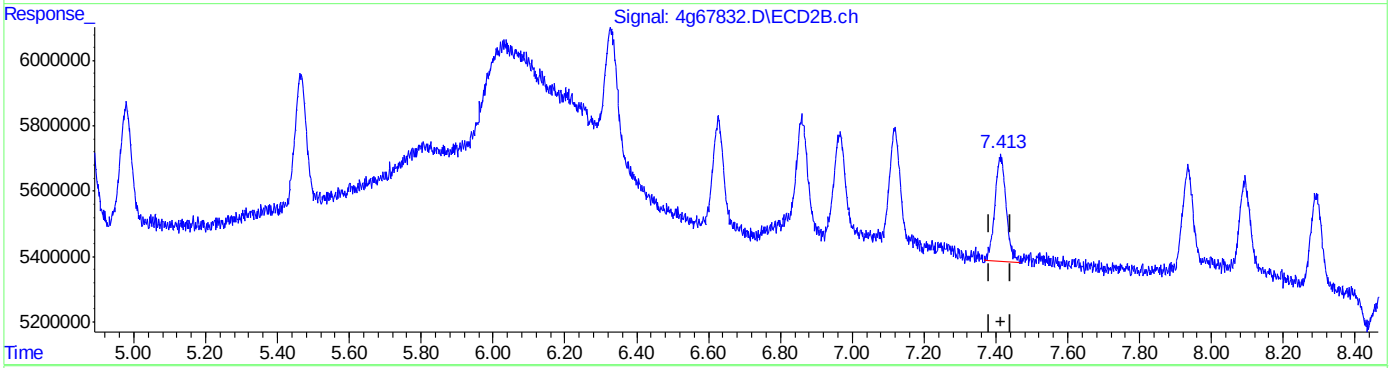
Quantitation Report (Qedit)

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

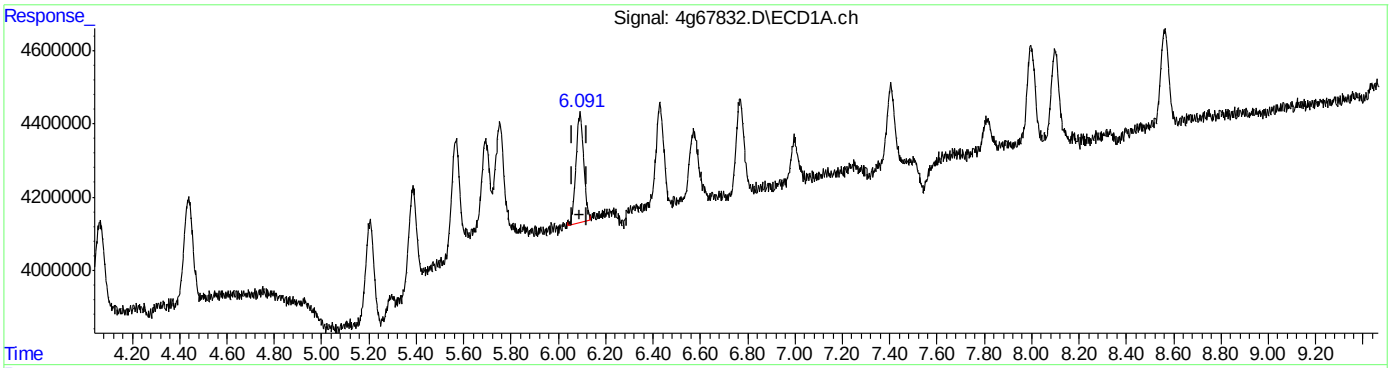
SGS ACCUTEST JC19759

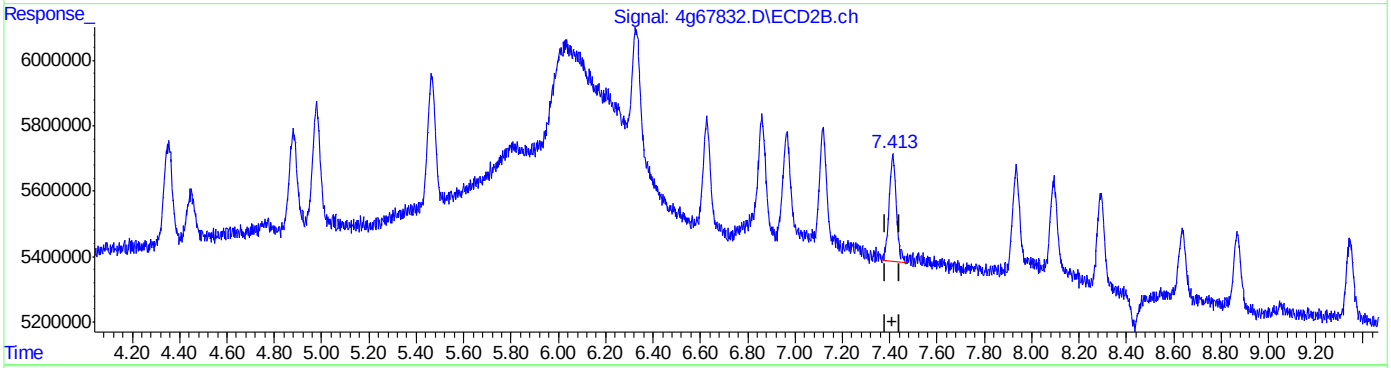
Quantitation Report (Qedit)

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

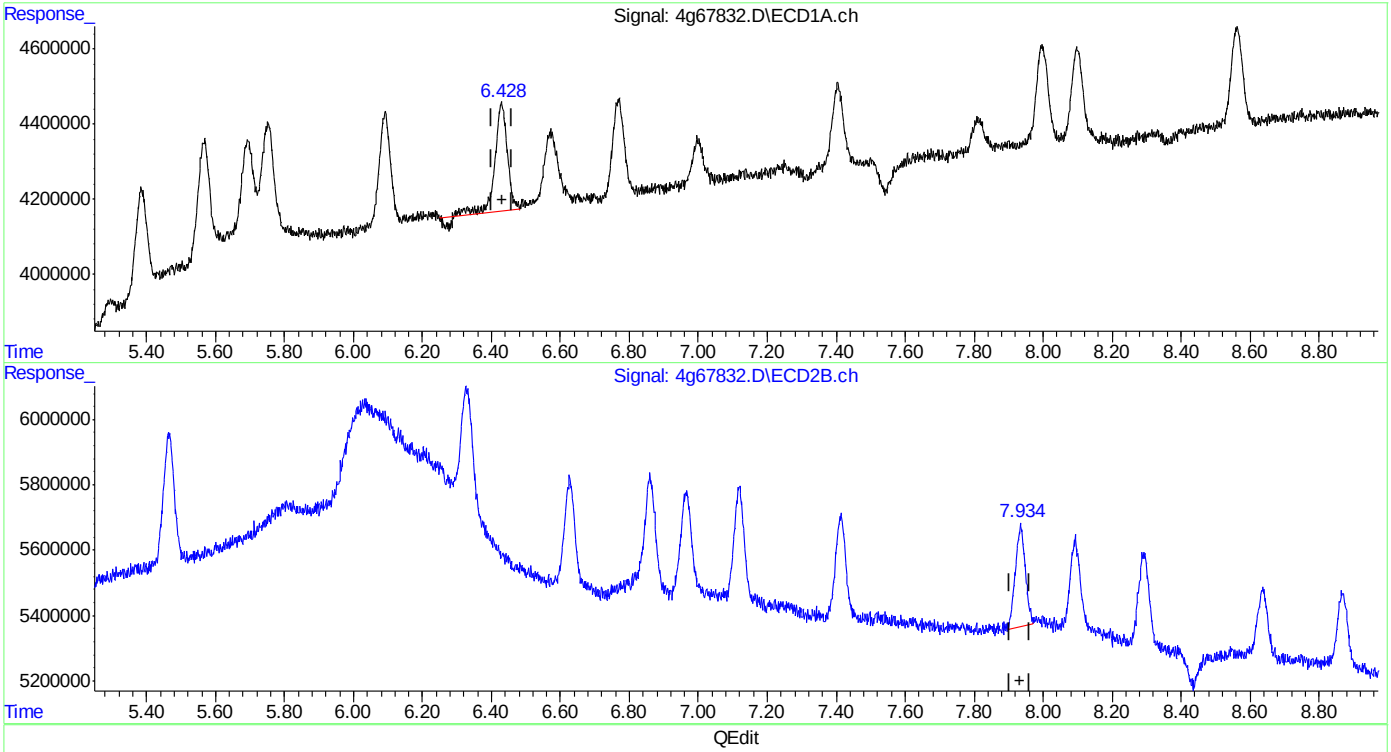
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(15) Endrin (MA)
6.429min 1.047 PPB
response 7280251

(15) Endrin #2 (MA)
7.935min 1.002 PPB
response 6178520

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:01:03 2016 RPT1

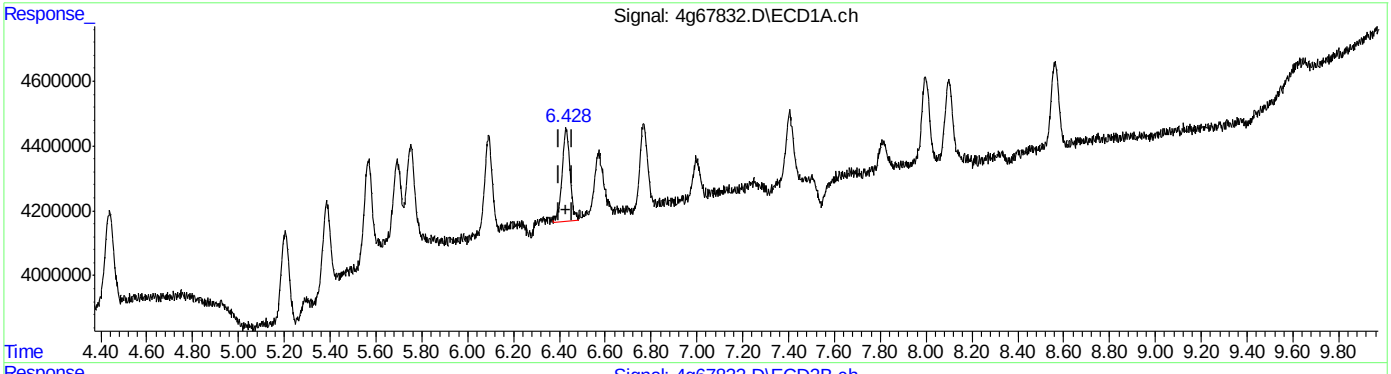
SGS ACCUTEST JC19759

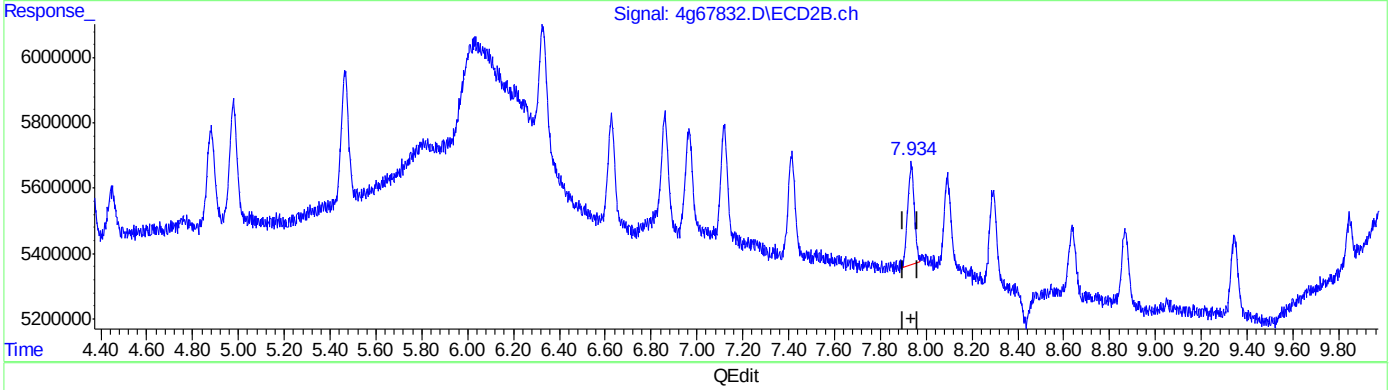
Quantitation Report (Qedit)

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

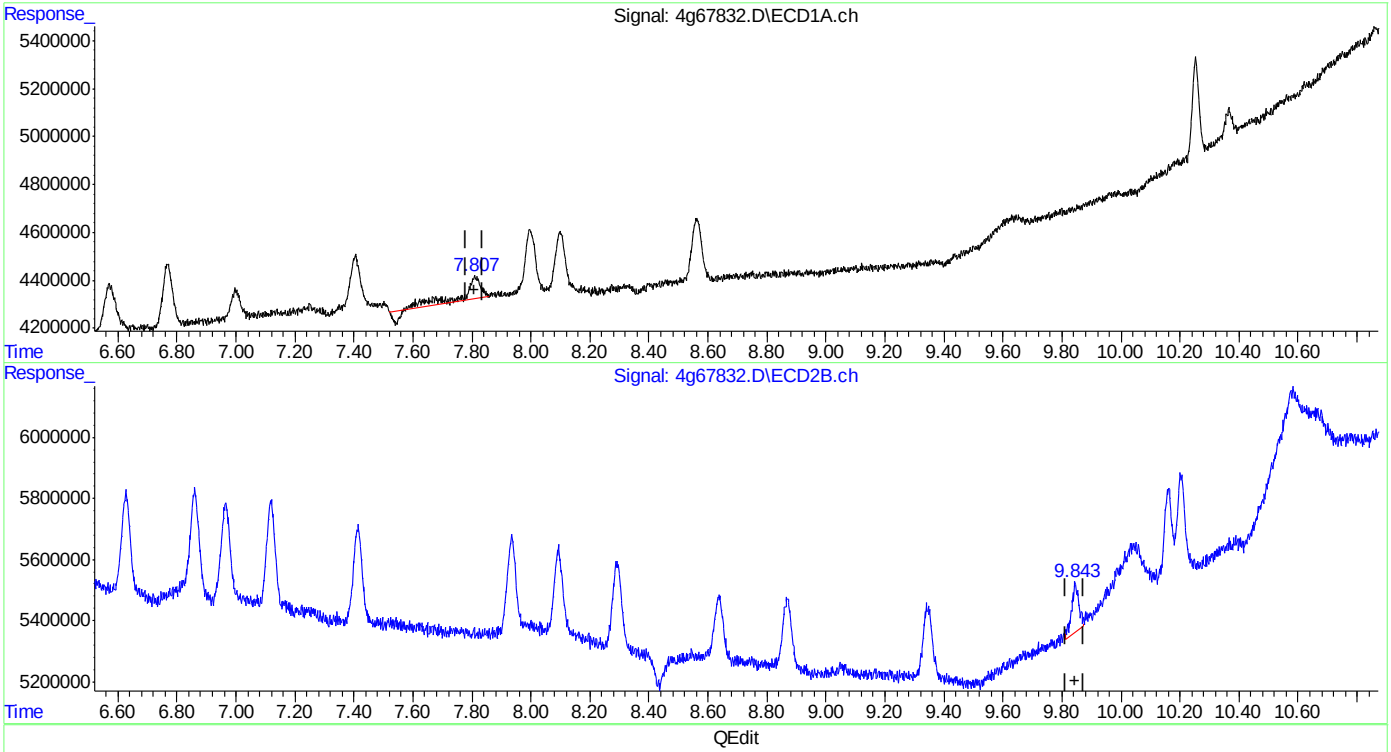
SGS ACCUTEST JC19759

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

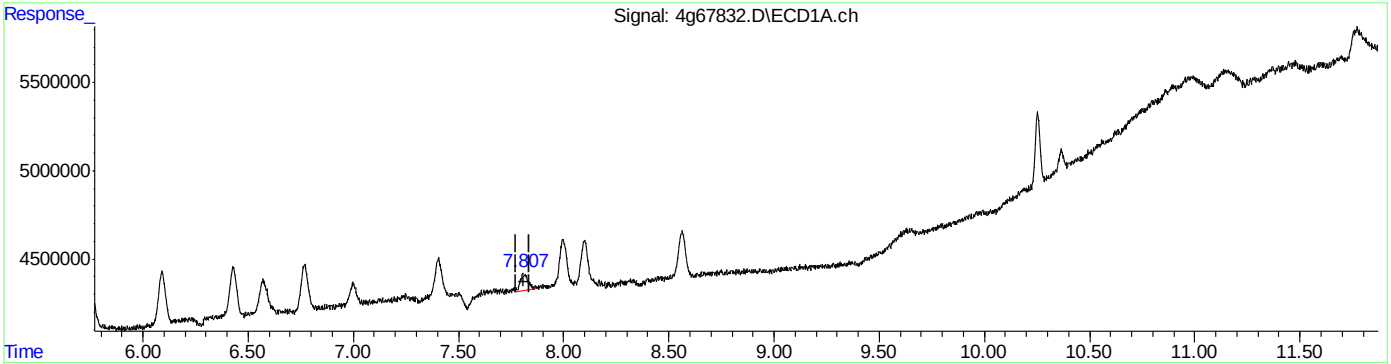
(+) = Expected Retention Time

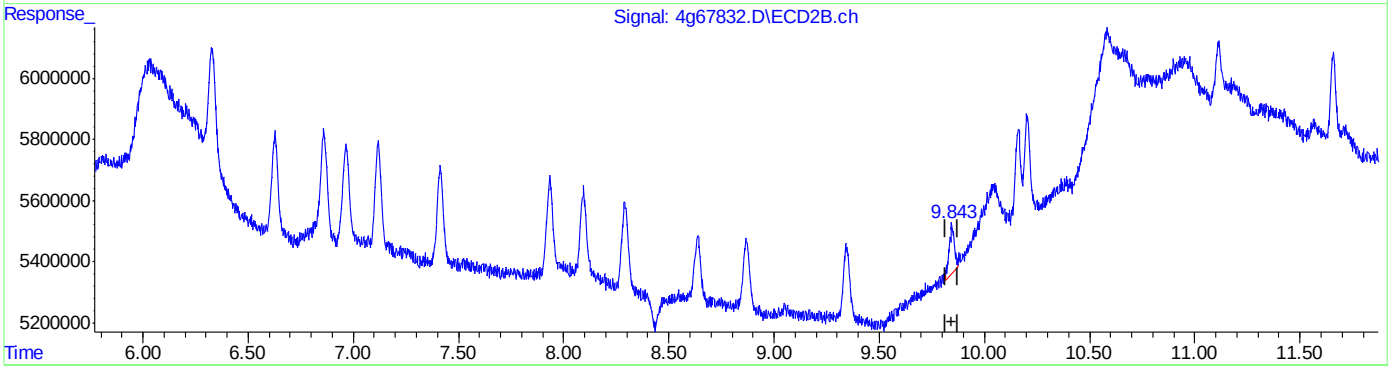
Quantitation Report (Qedit)

```
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

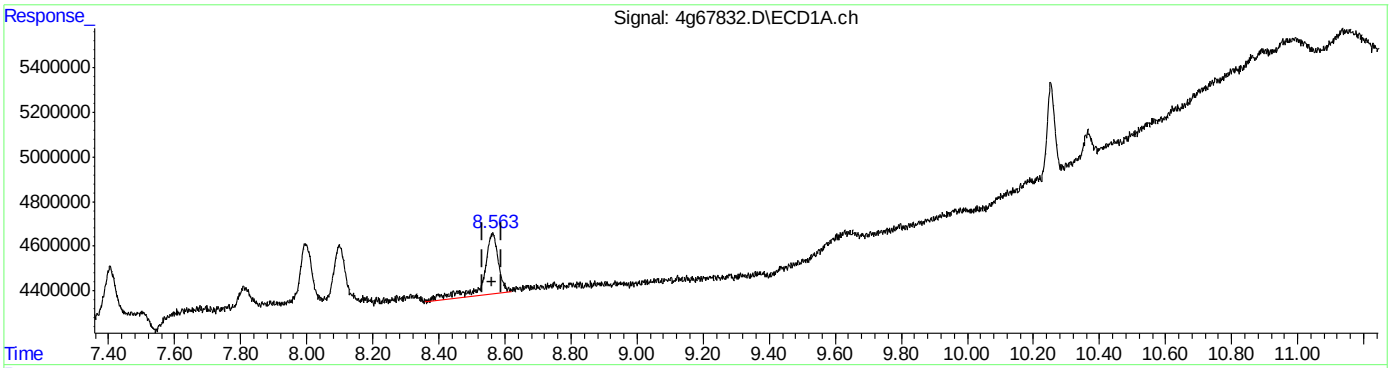
(+) = Expected Retention Time

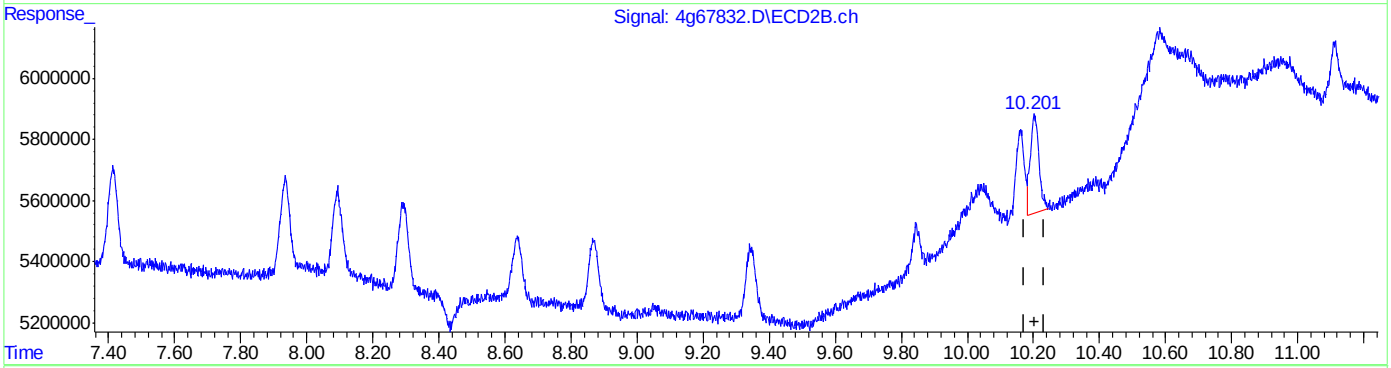
Quantitation Report (Qedit)

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

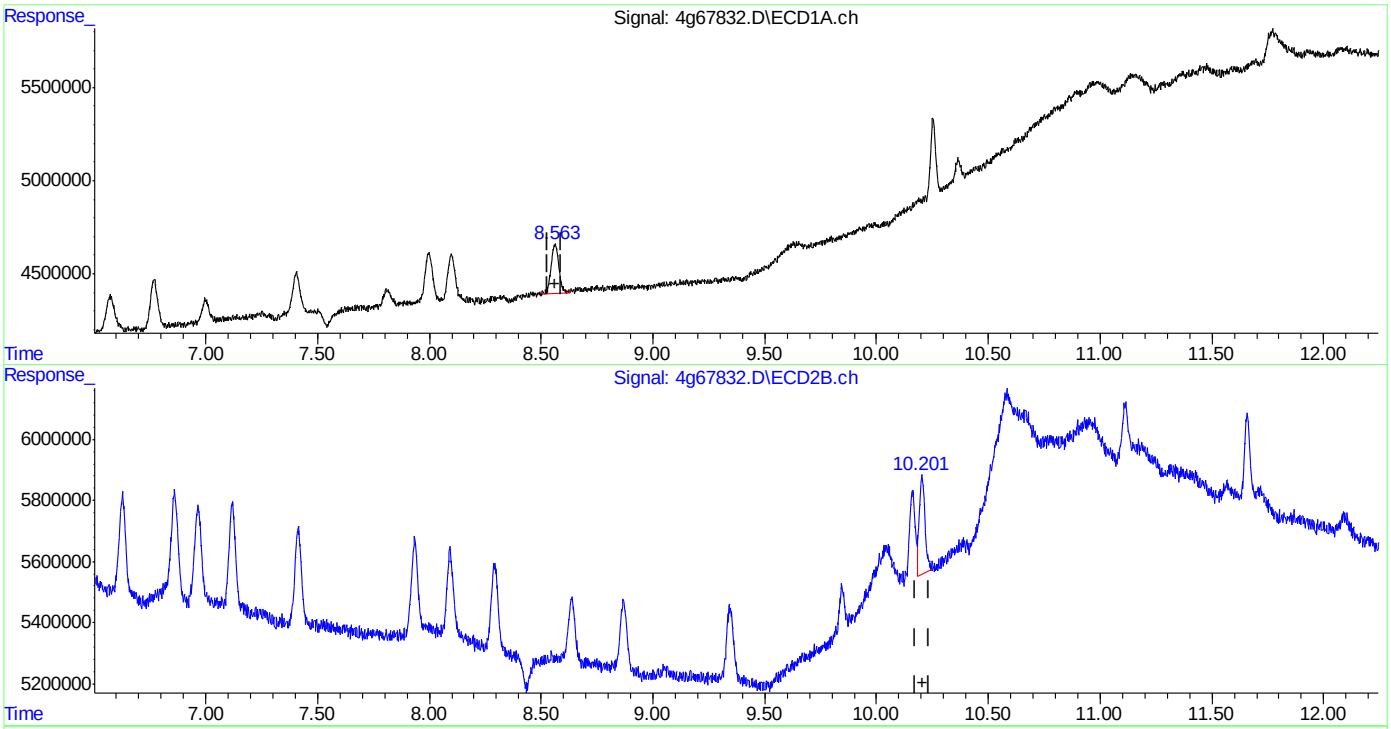
(+) = Expected Retention Time

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

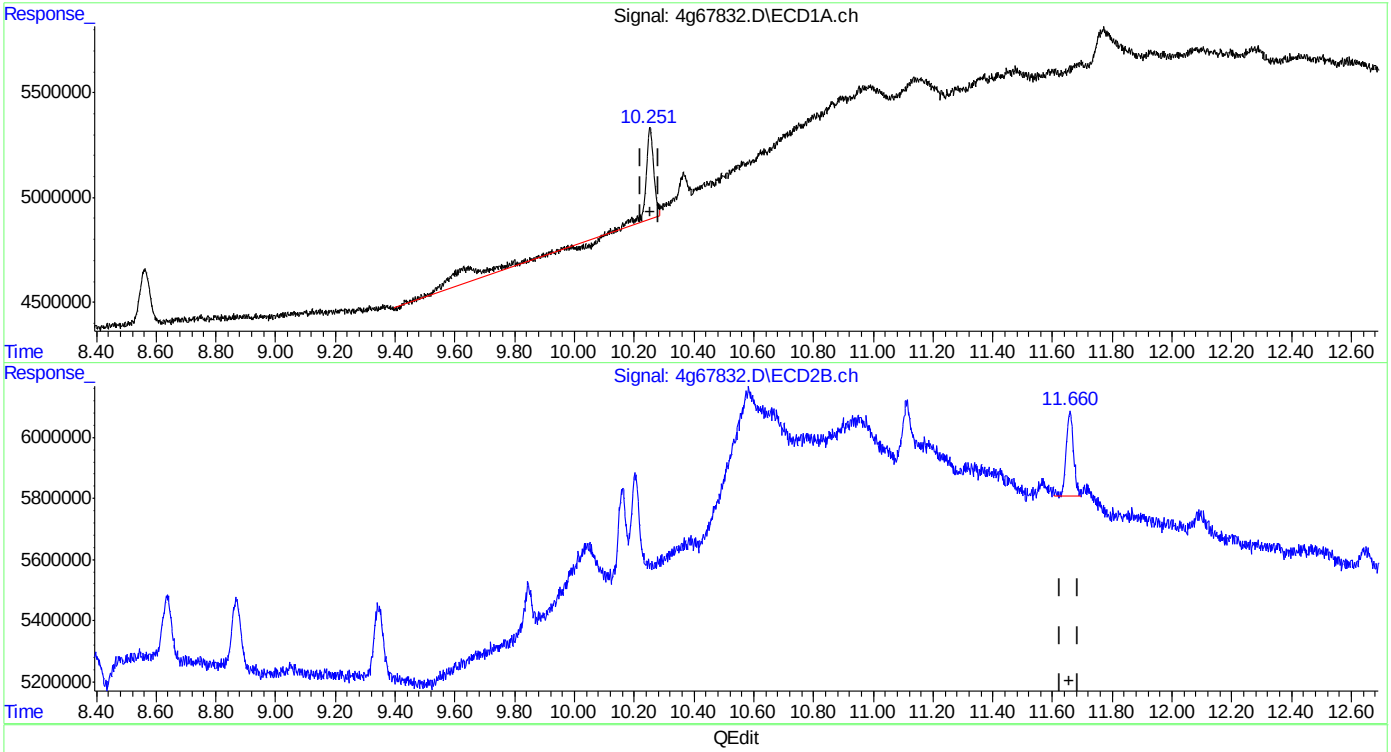
(+) = Expected Retention Time

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

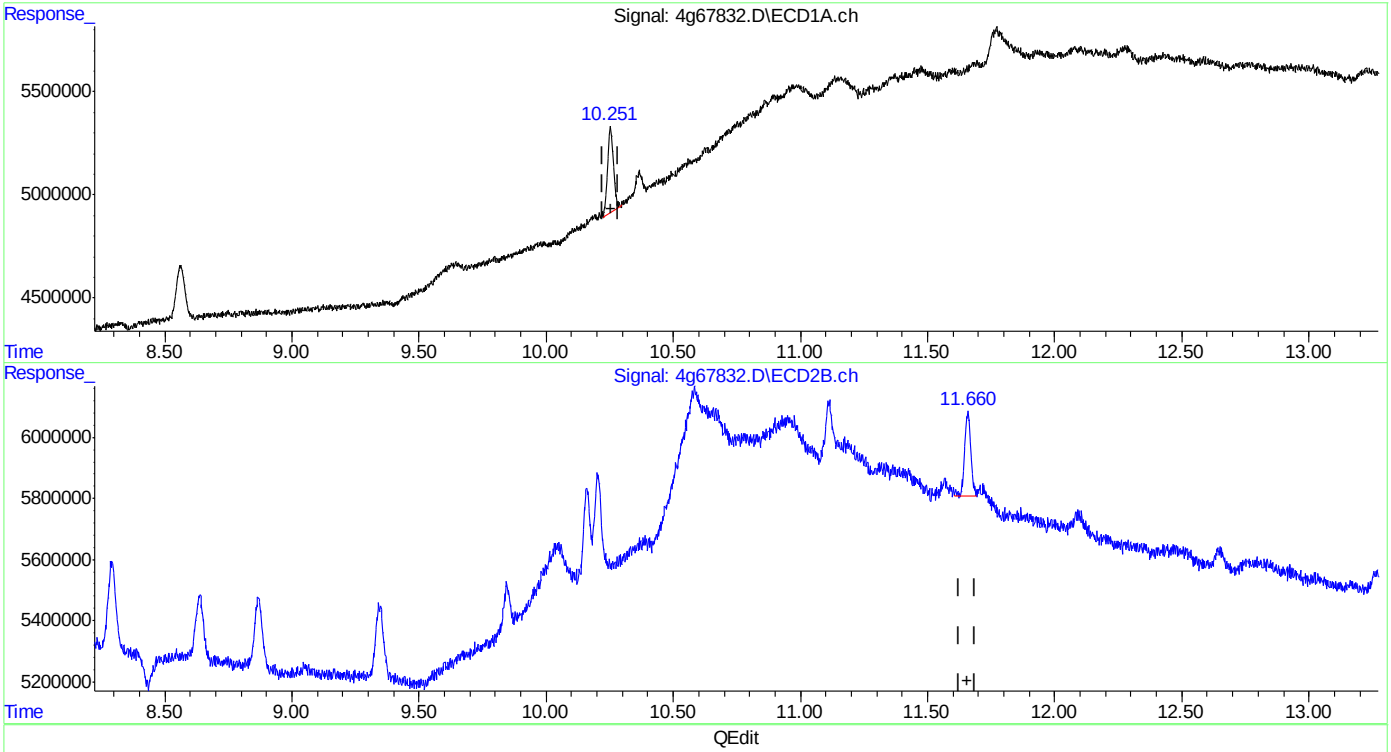
(+) = Expected Retention Time

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

SGS ACCUTEST JC19759

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.

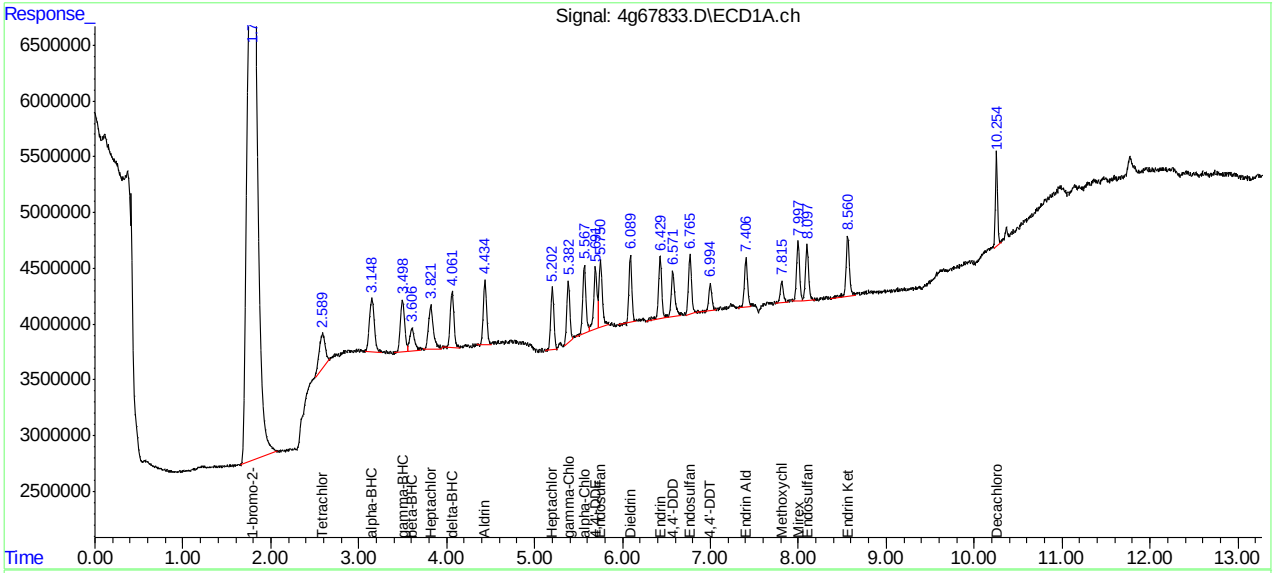
SGS ACCUTEST JC19759

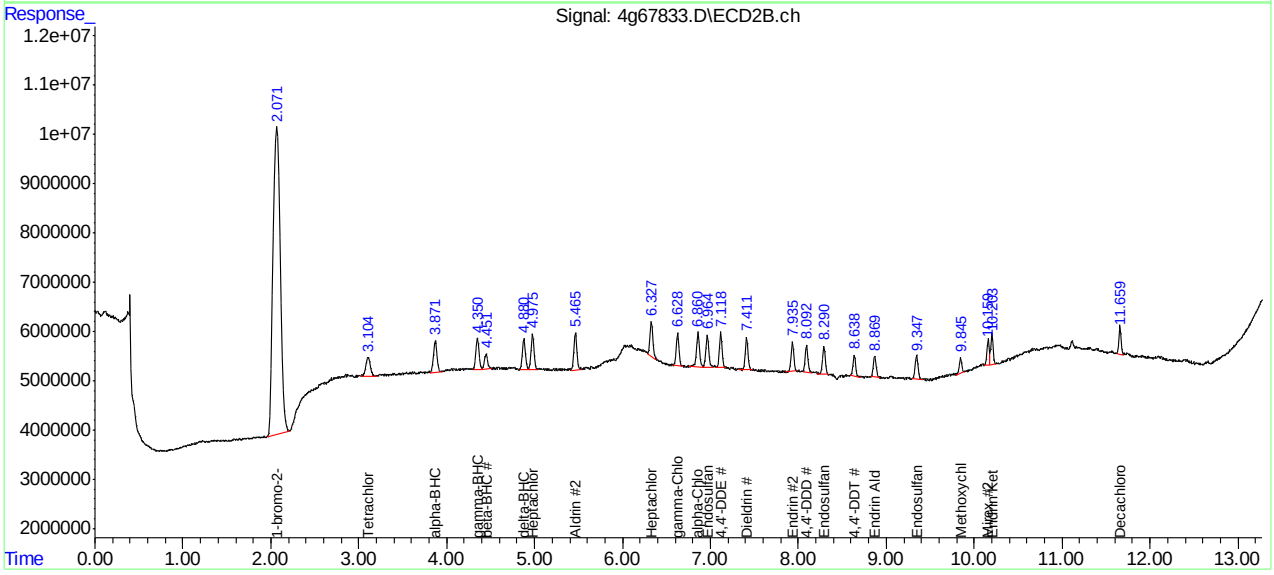
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67833.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 14:41	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

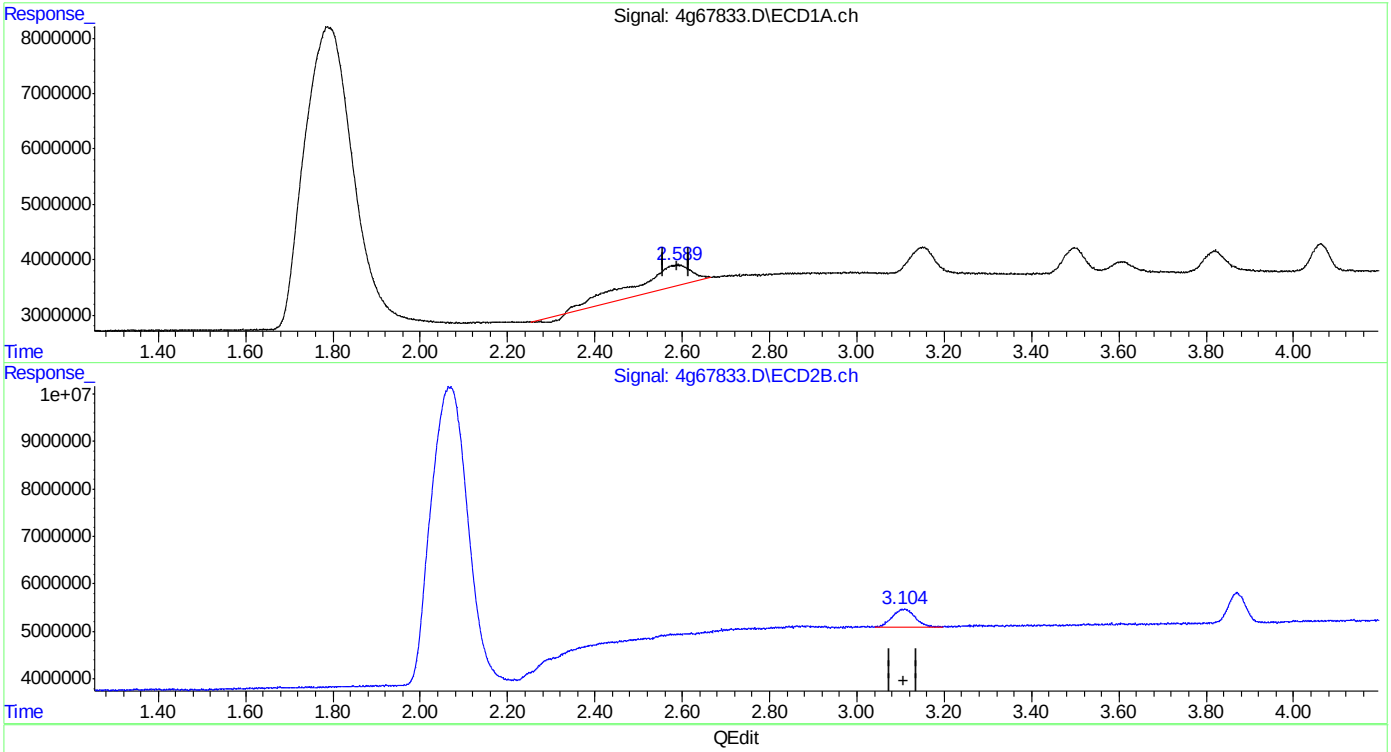
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Heptachlor	76-44-8	2	4.98	Poorly defined baseline
gamma-Chlordane	5103-74-2	1	5.38	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(2) Tetrachloro-m-xylene (SAB)
2.589min 4.638 PPB
response 36214055

(2) Tetrachloro-m-xylene #2 (SAB)
3.104min 2.076 PPB
response 13534834

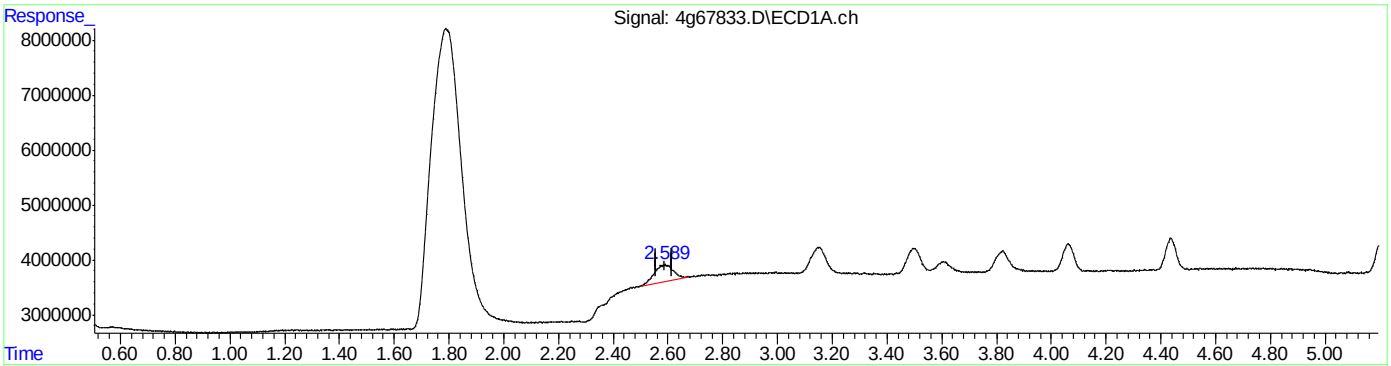
(+) = Expected Retention Time

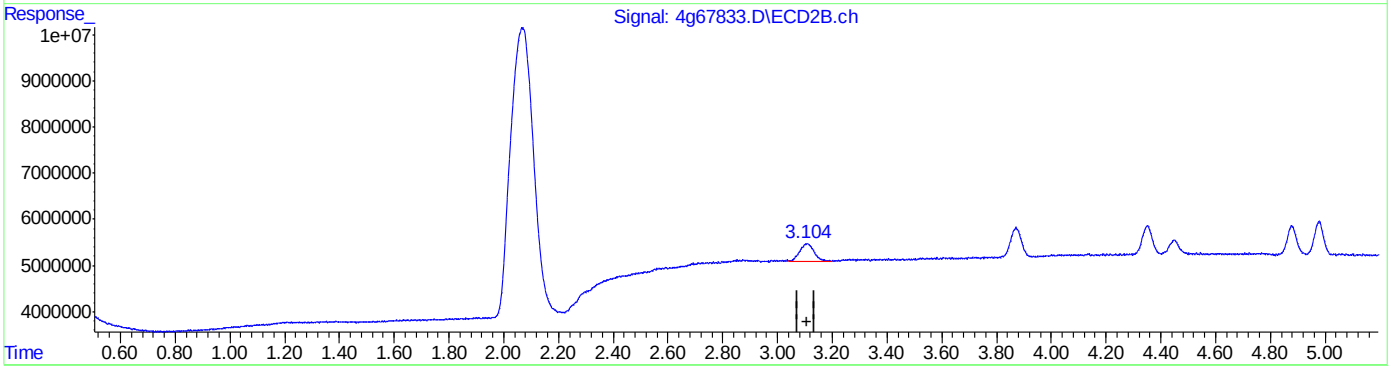
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.589min 1.873 PPB m
response 14628969

(2) Tetrachloro-m-xylene #2 (SAB)
3.104min 2.076 PPB
response 13534834

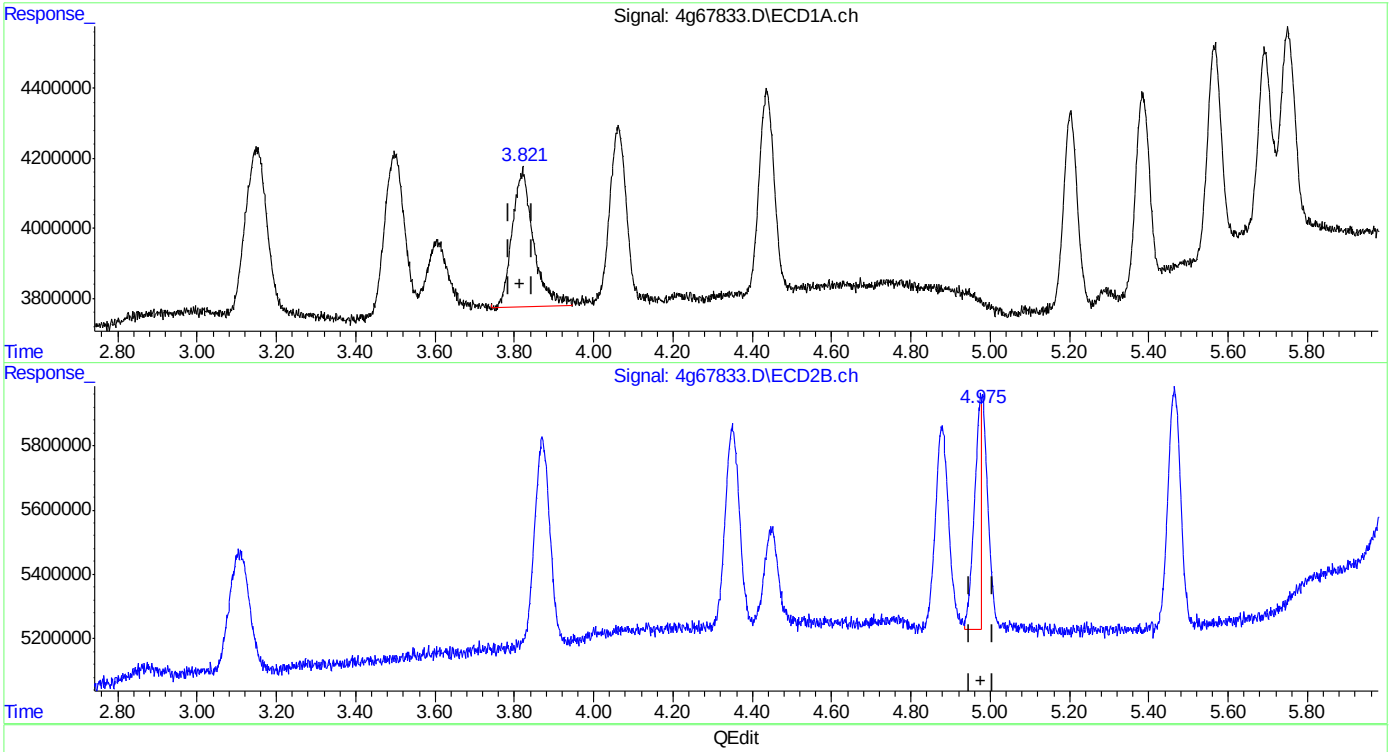
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:58:05 2016 RPT1

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



(5) Heptachlor (MA)
3.822min 1.616 PPB
response 14504205

(5) Heptachlor #2 (MA)
4.976min 1.088 PPB
response 8859133

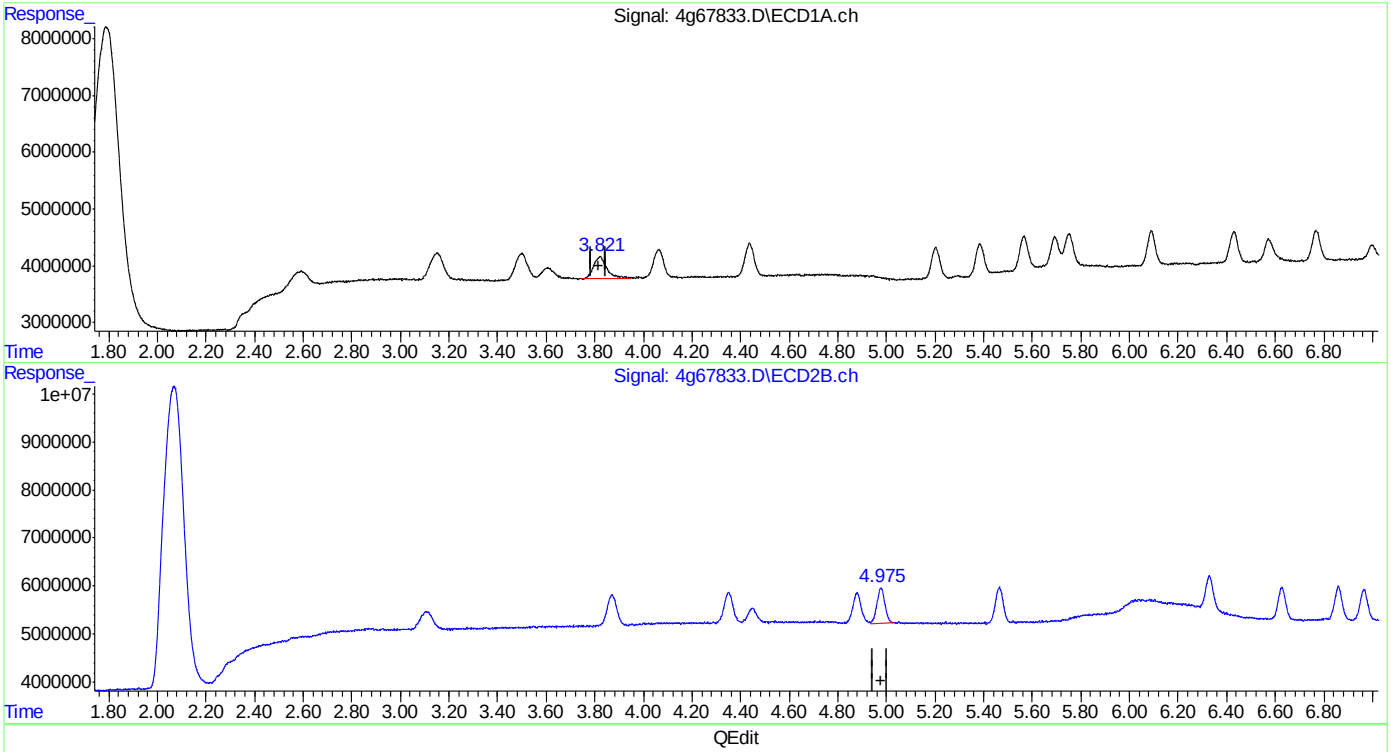
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(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

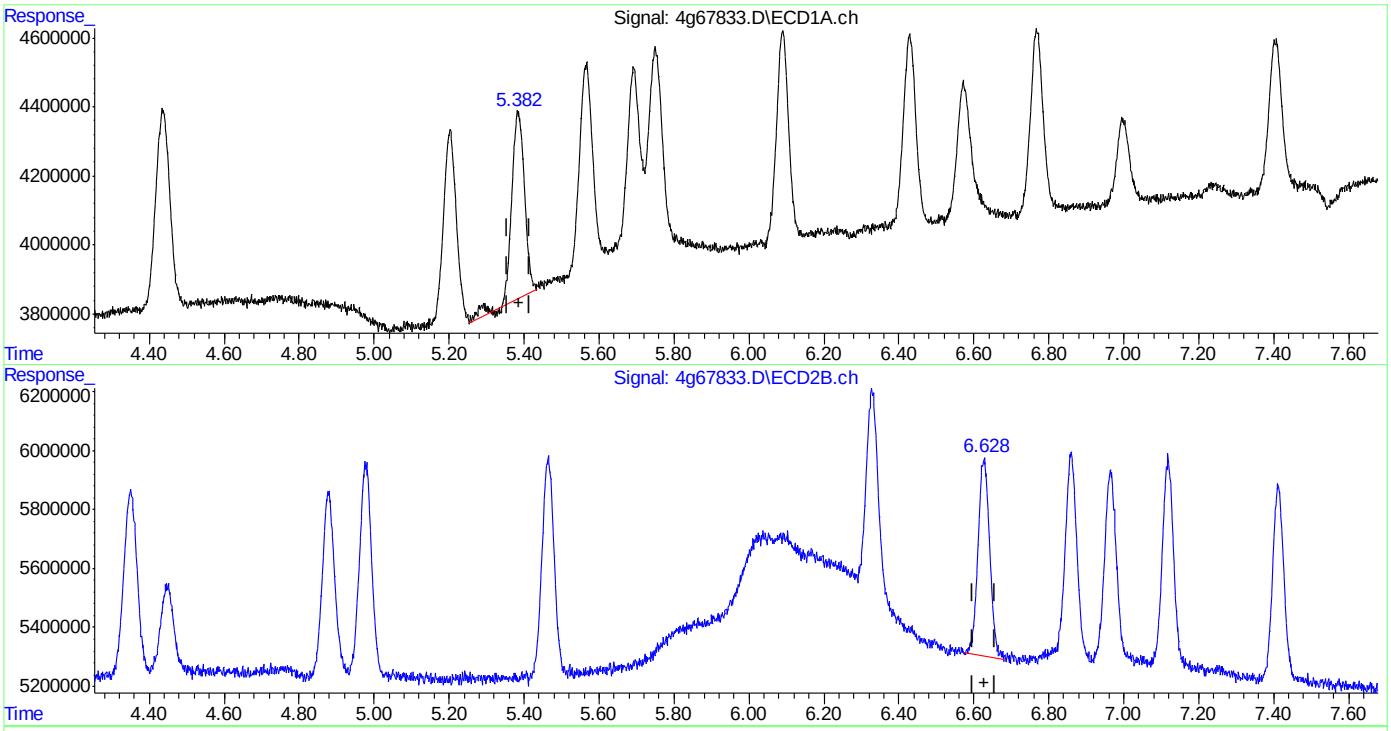
SGS ACCUTEST JC19759

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

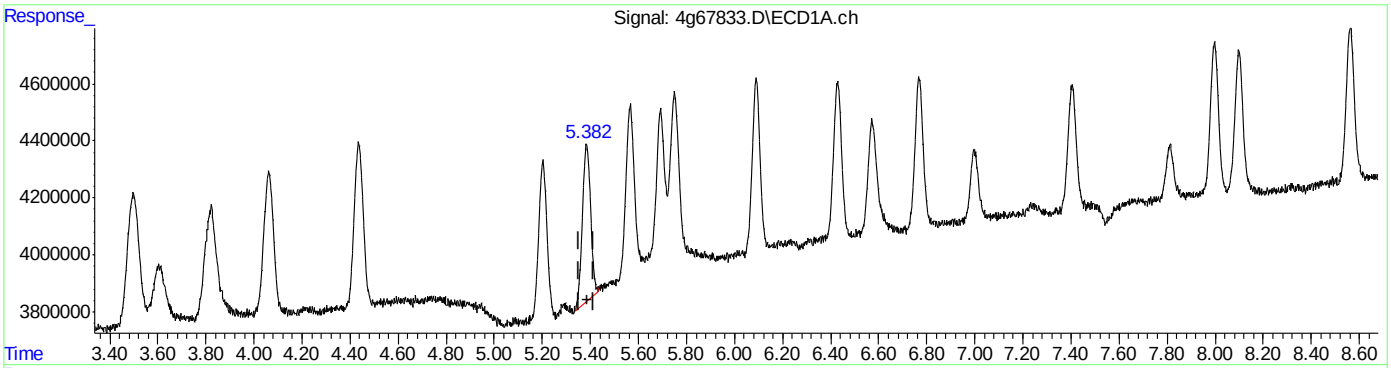
SGS ACCUTEST JC19759

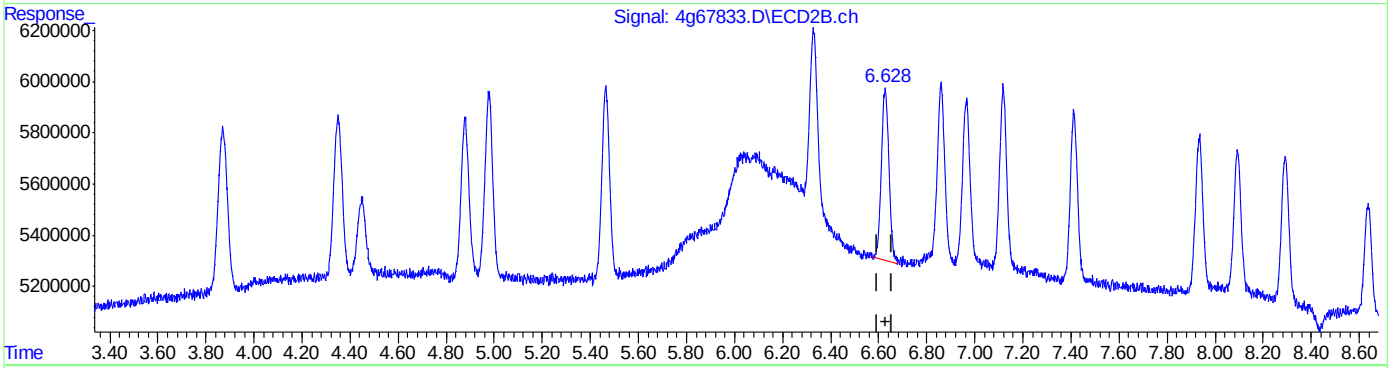
Quantitation Report (Qedit)

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

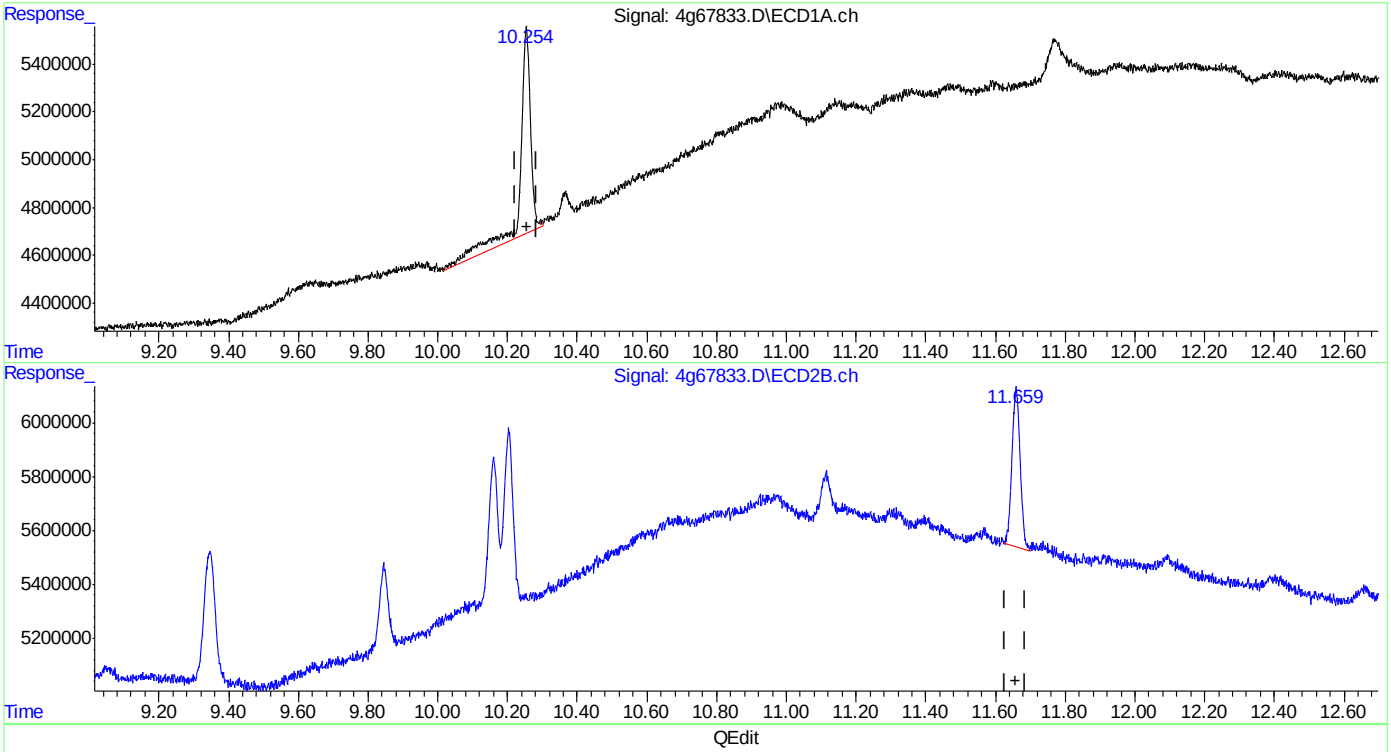
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:58:30 2016 RPT1

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



QEdit

(24) Decachlorobiphenyl (SA)
10.255min 2.237 PPB
response 18196219

(24) Decachlorobiphenyl #2 (SA)
11.659min 1.676 PPB
response 9697016

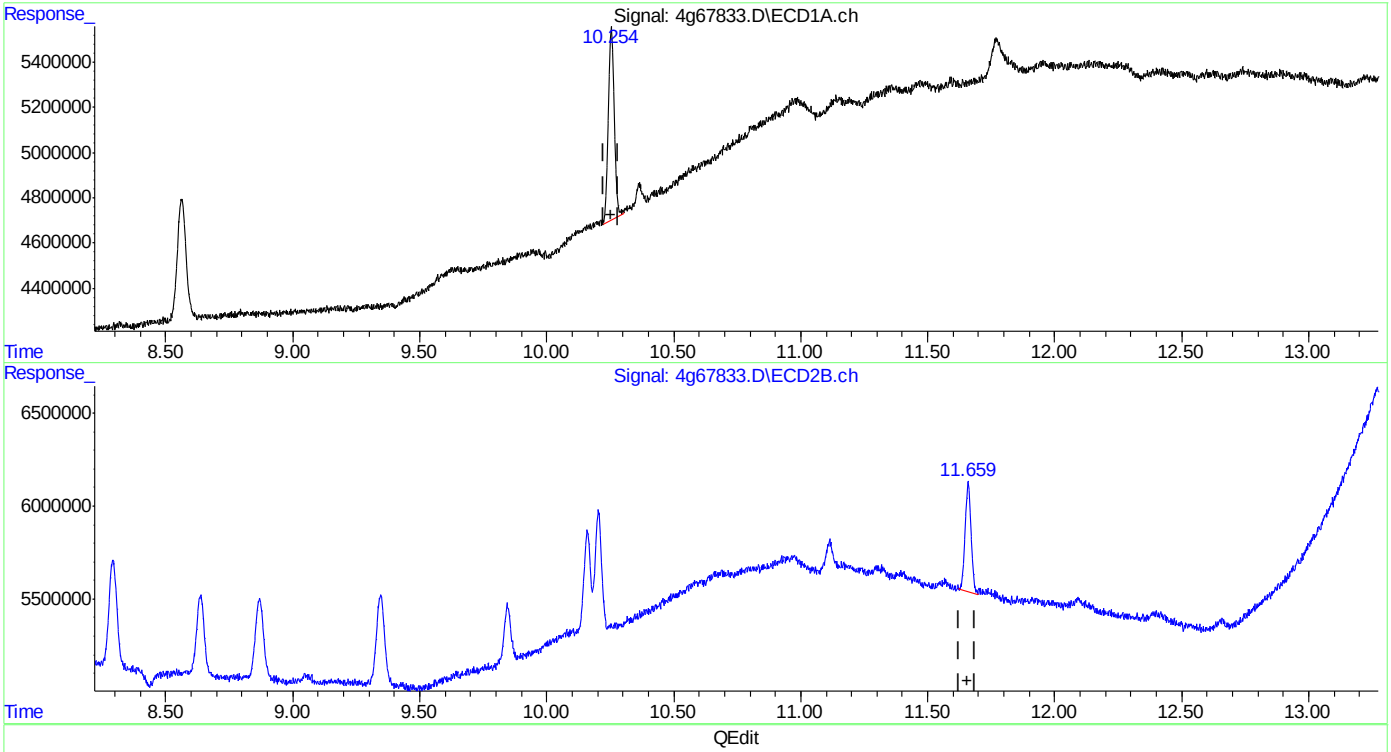
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   2:41 pm
Operator  : dharas
Sample    : ic1778-2
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 4   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(24) Decachlorobiphenyl (SA)

10.254min 1.713 PPB m

response 13928632

(24) Decachlorobiphenyl #2 (SA)

11.659min 1.676 PPB

response 9697016

(+) = Expected Retention Time

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

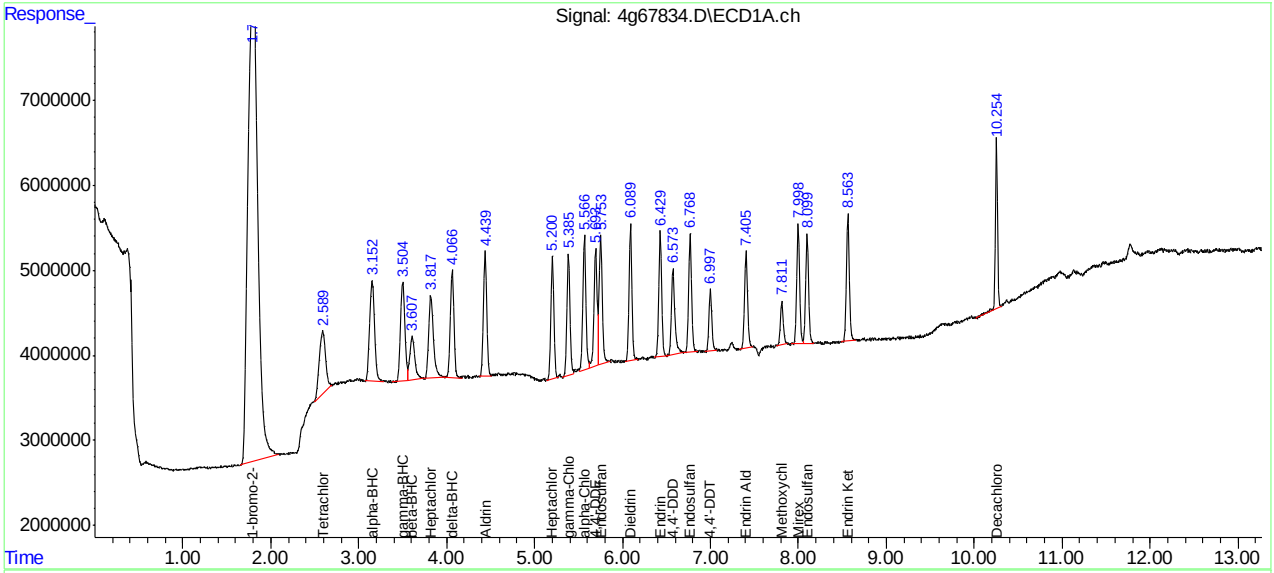
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

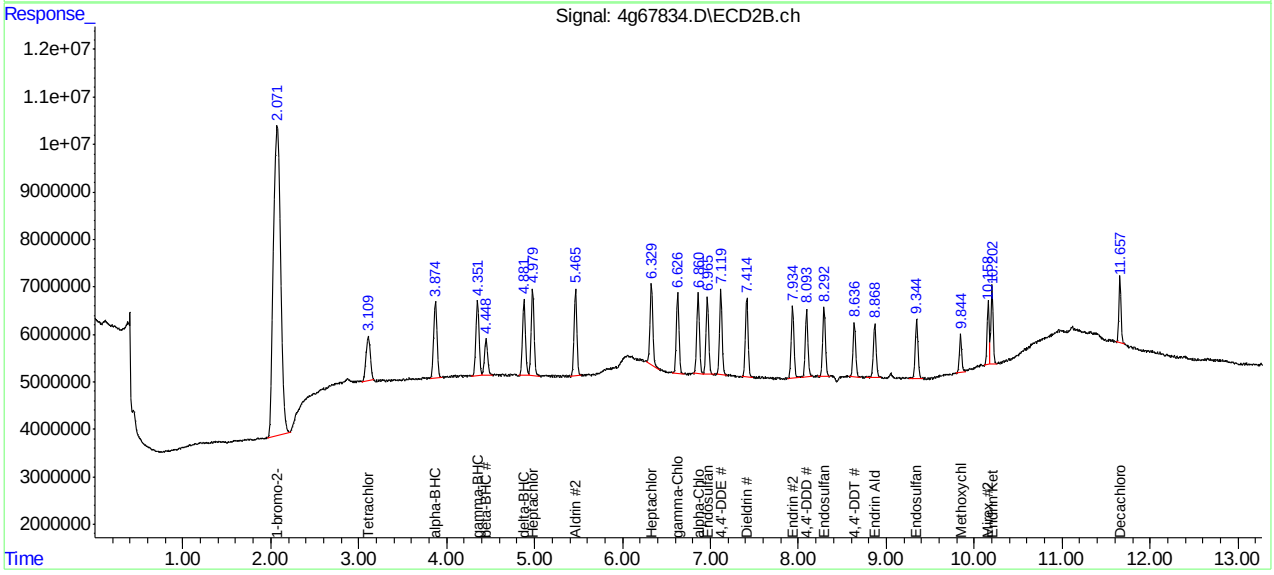
Quantitation Report (QT Reviewed)

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





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67834.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 14:56	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

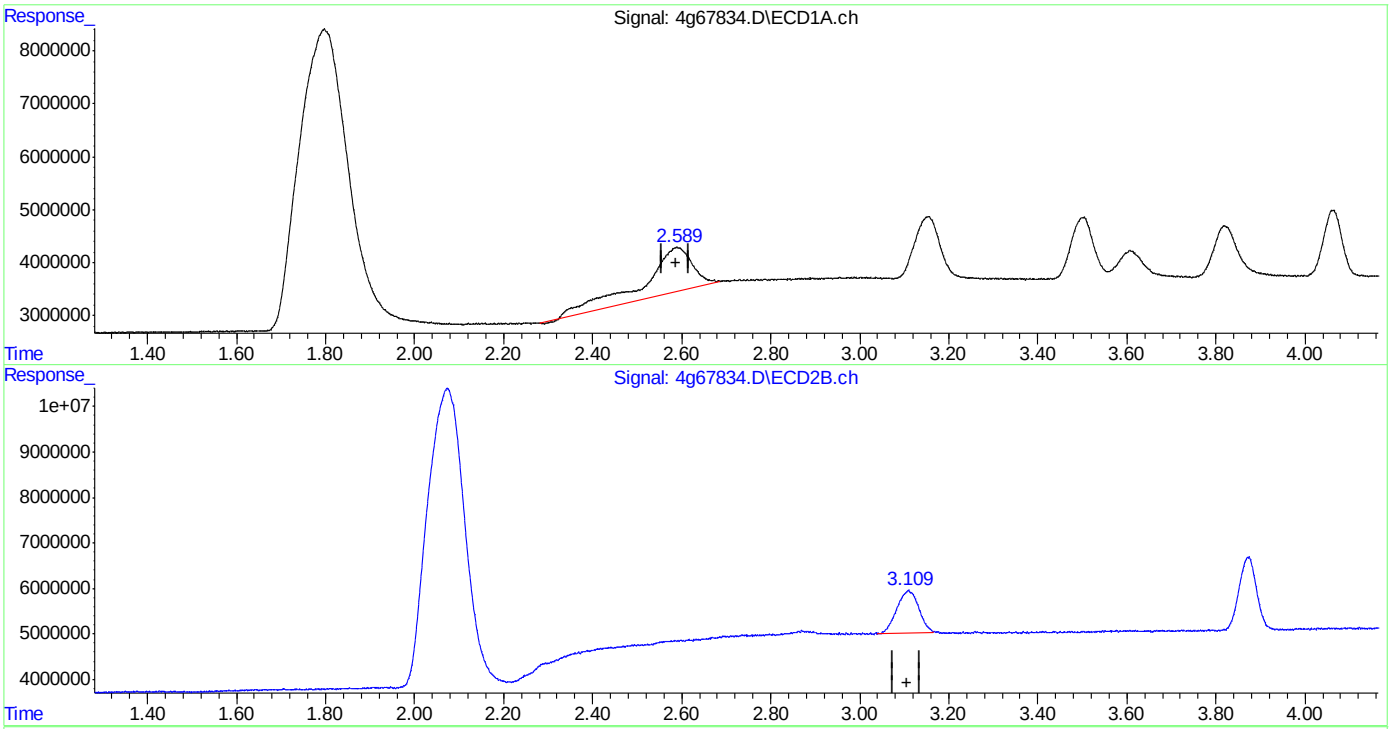
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
alpha-Chlordane	5103-71-9	1	5.57	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.589min 8.082 PPB
response 65701446

(2) Tetrachloro-m-xylene #2 (SAB)
3.110min 4.642 PPB
response 31510534

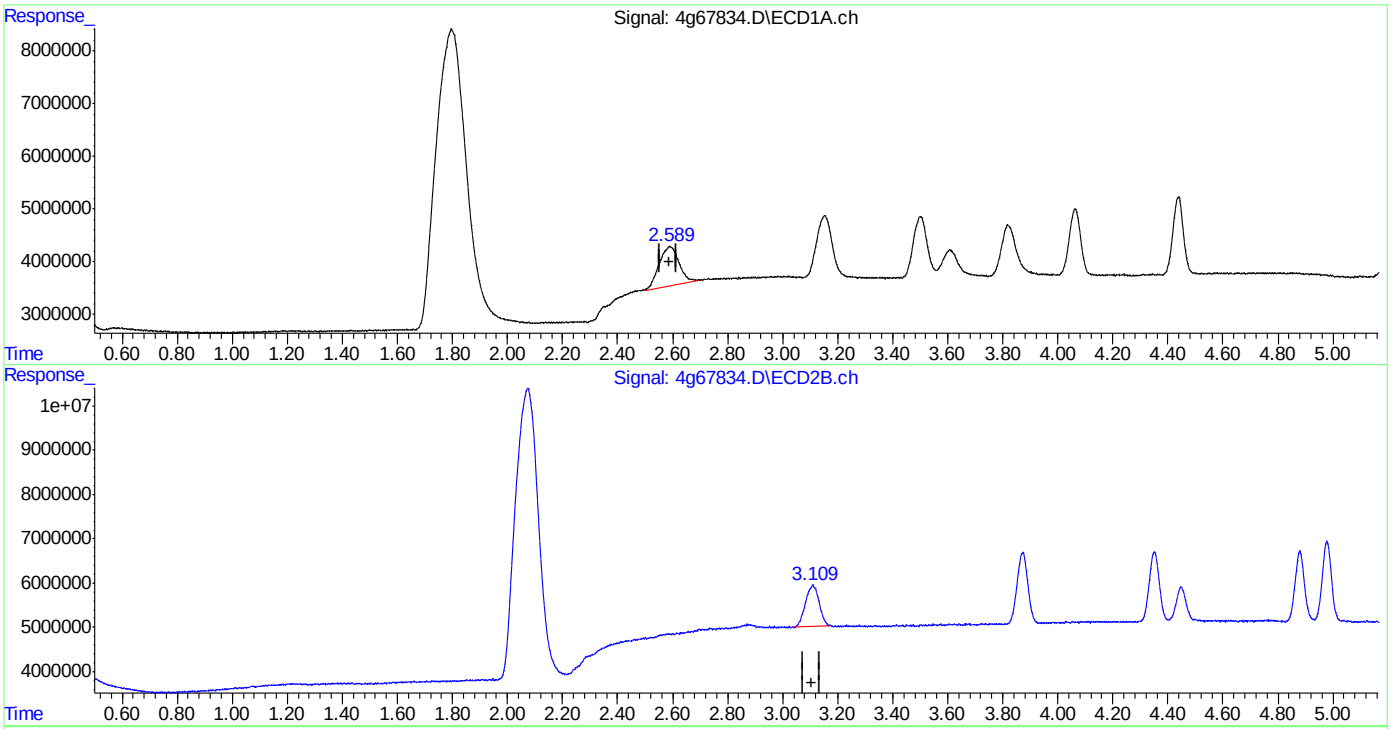
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:55:54 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.589min 4.566 PPB m
response 37120423

(2) Tetrachloro-m-xylene #2 (SAB)
3.110min 4.642 PPB
response 31510534

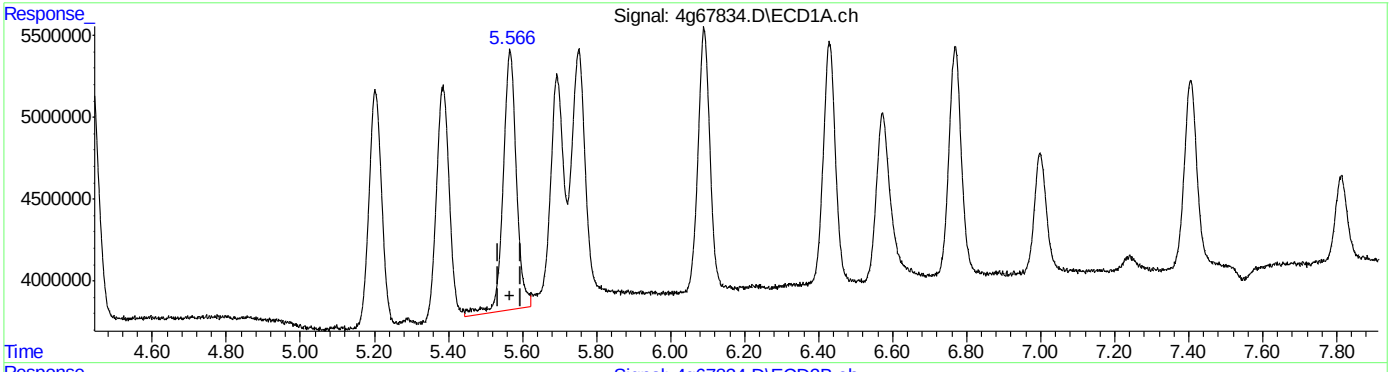
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:56:00 2016 RPT1

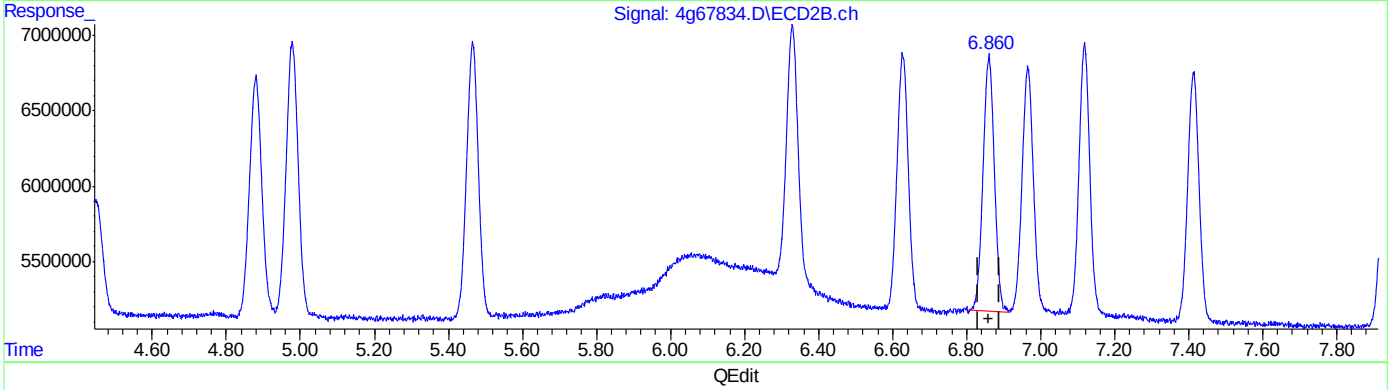
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(11) alpha-Chlordane (B)
5.566min 4.945 PPB
response 39336194

(11) alpha-Chlordane #2 (B)
6.860min 4.916 PPB
response 36218841

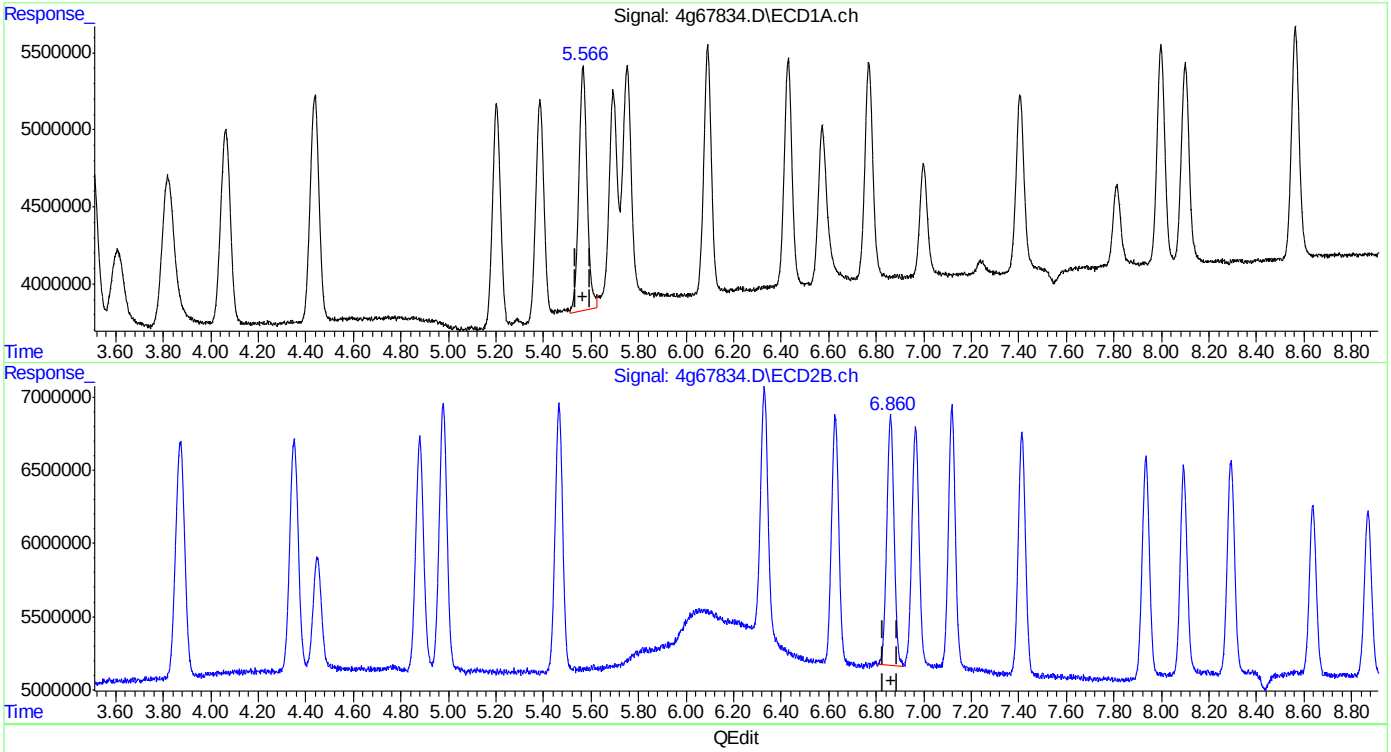
(+) = Expected Retention Time

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
4PST1778.M Tue May 03 14:56:26 2016 RPT1

SGS ACCUTEST JC19759

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

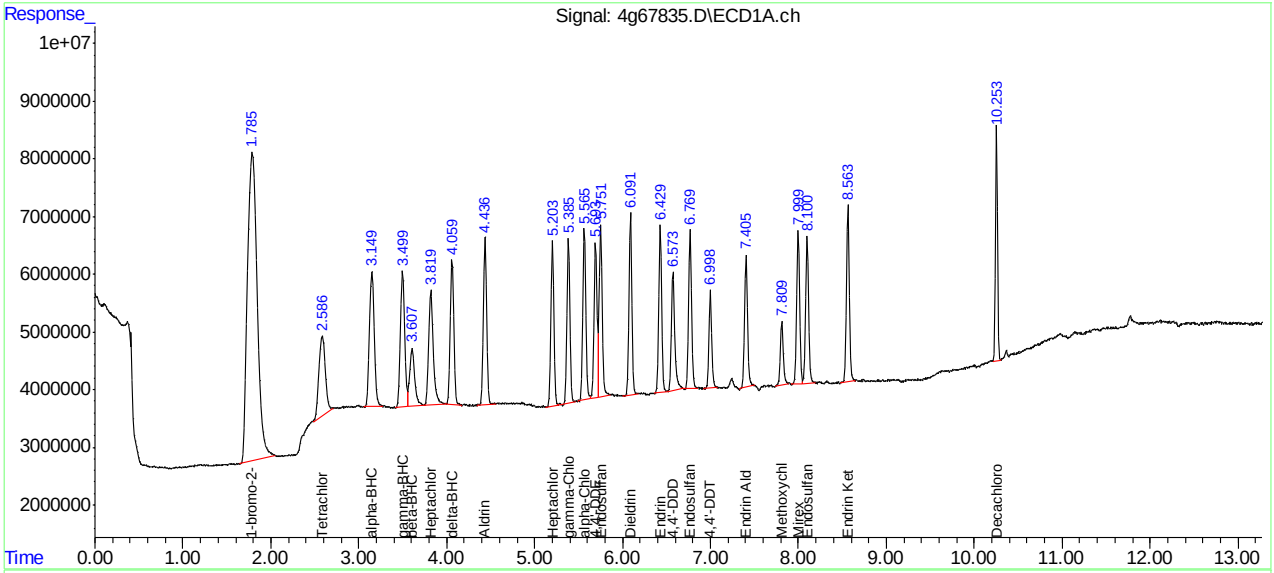
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

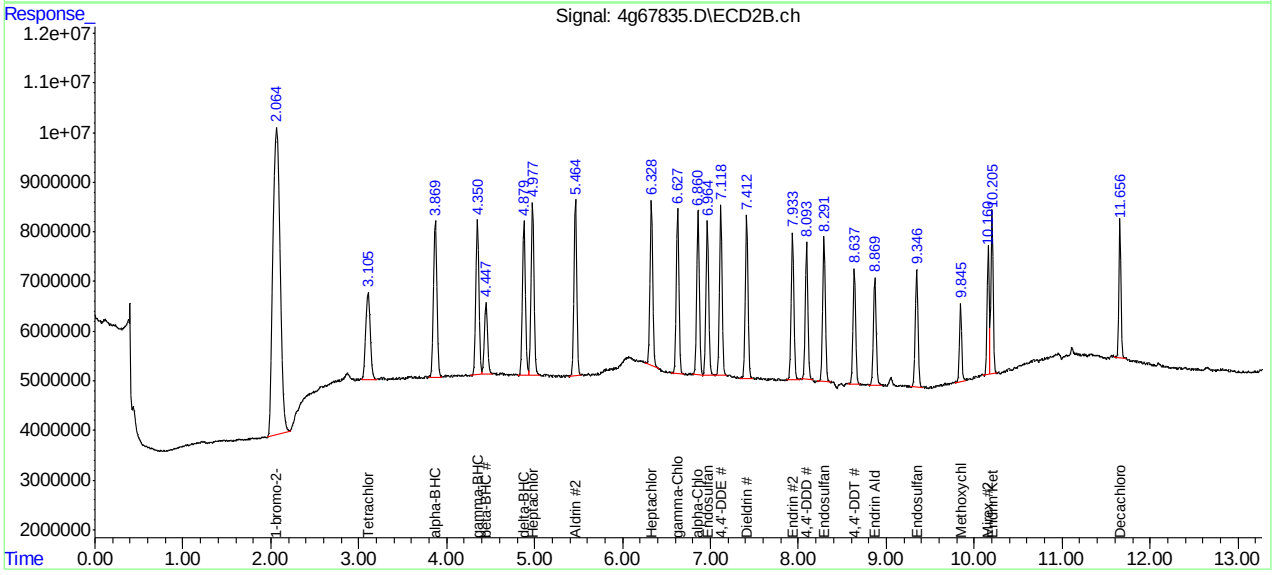
Quantitation Report (QT Reviewed)

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





SGS ACCUTEST JC19759

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

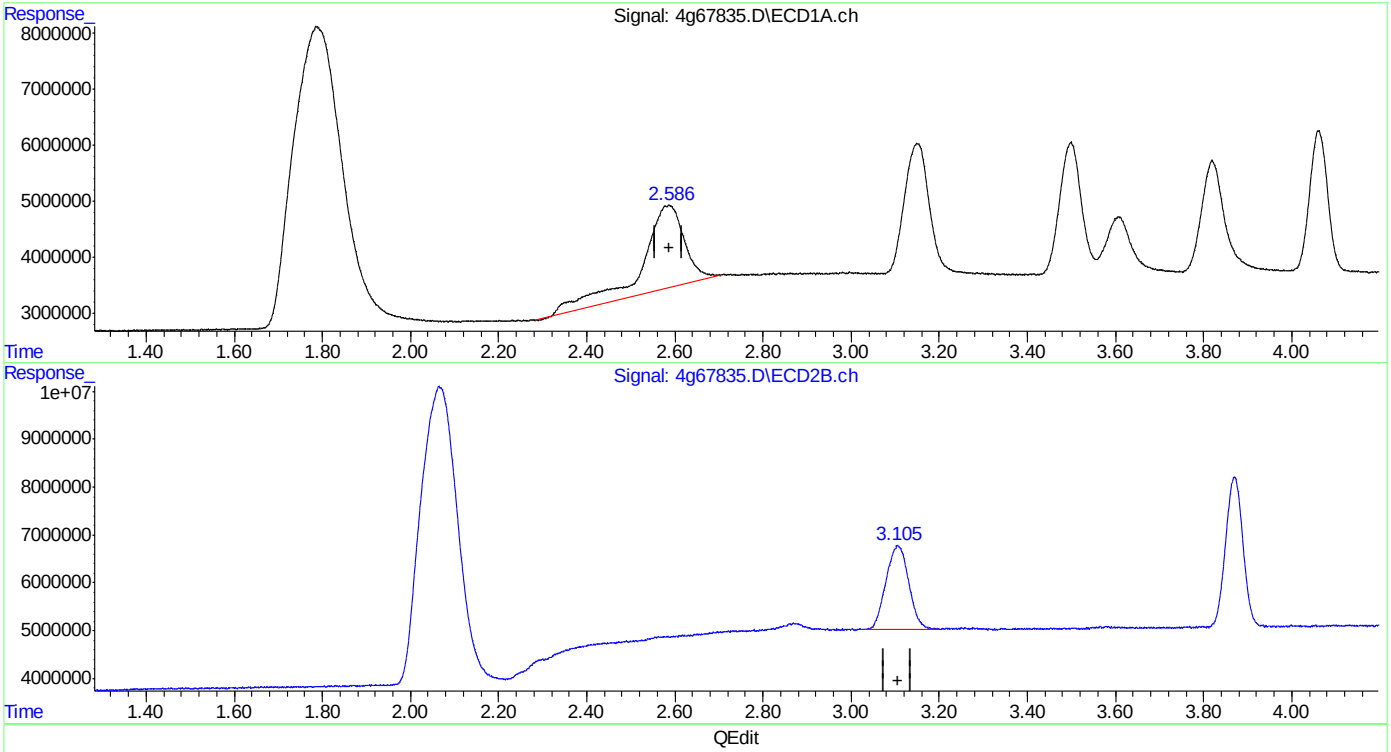
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

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



(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

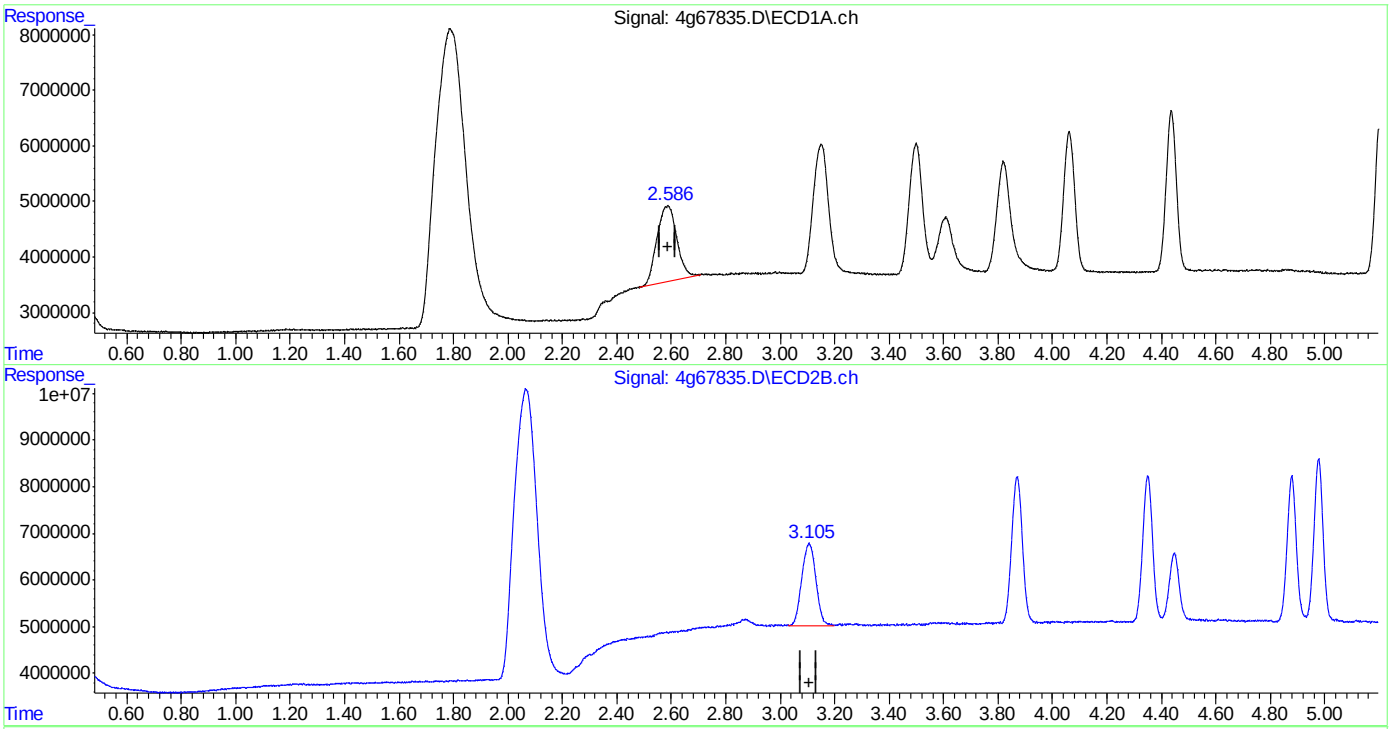
SGS ACCUTEST JC19759

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

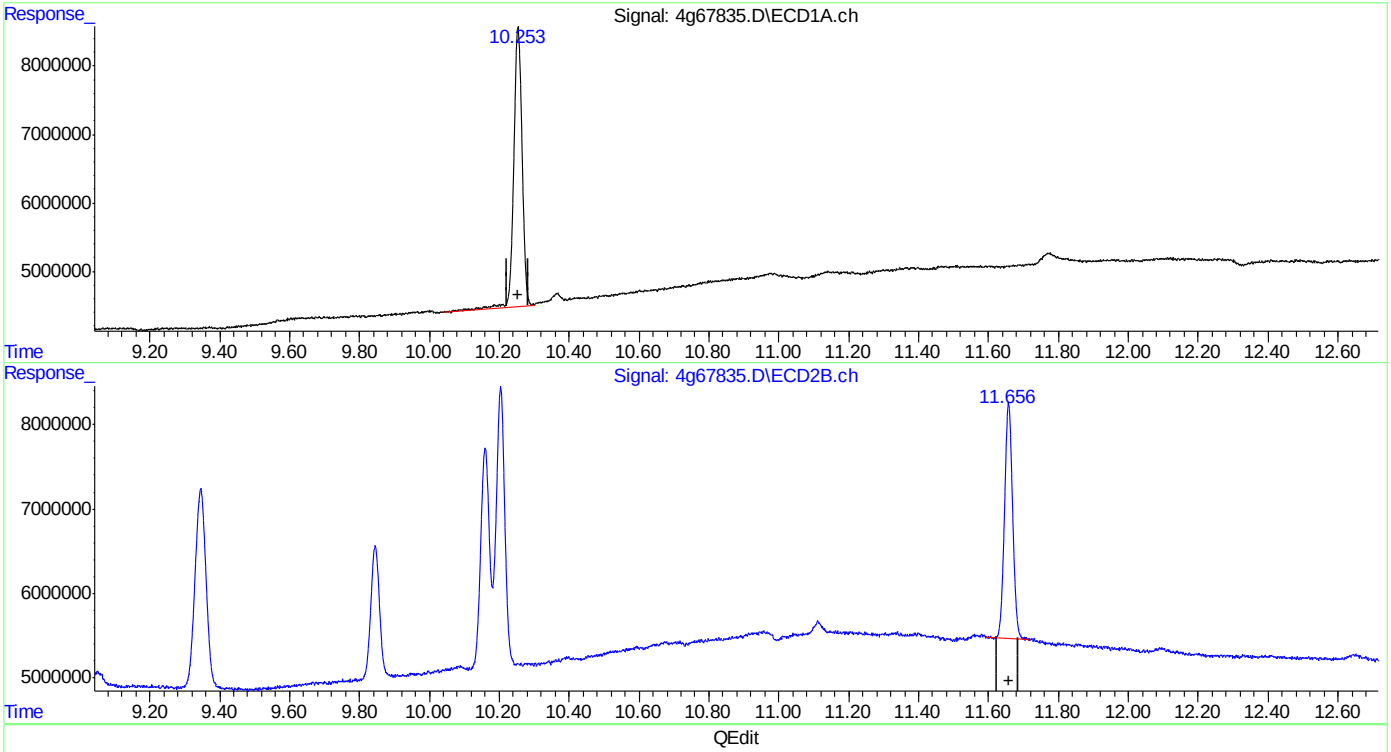
SGS ACCUTEST JC19759

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

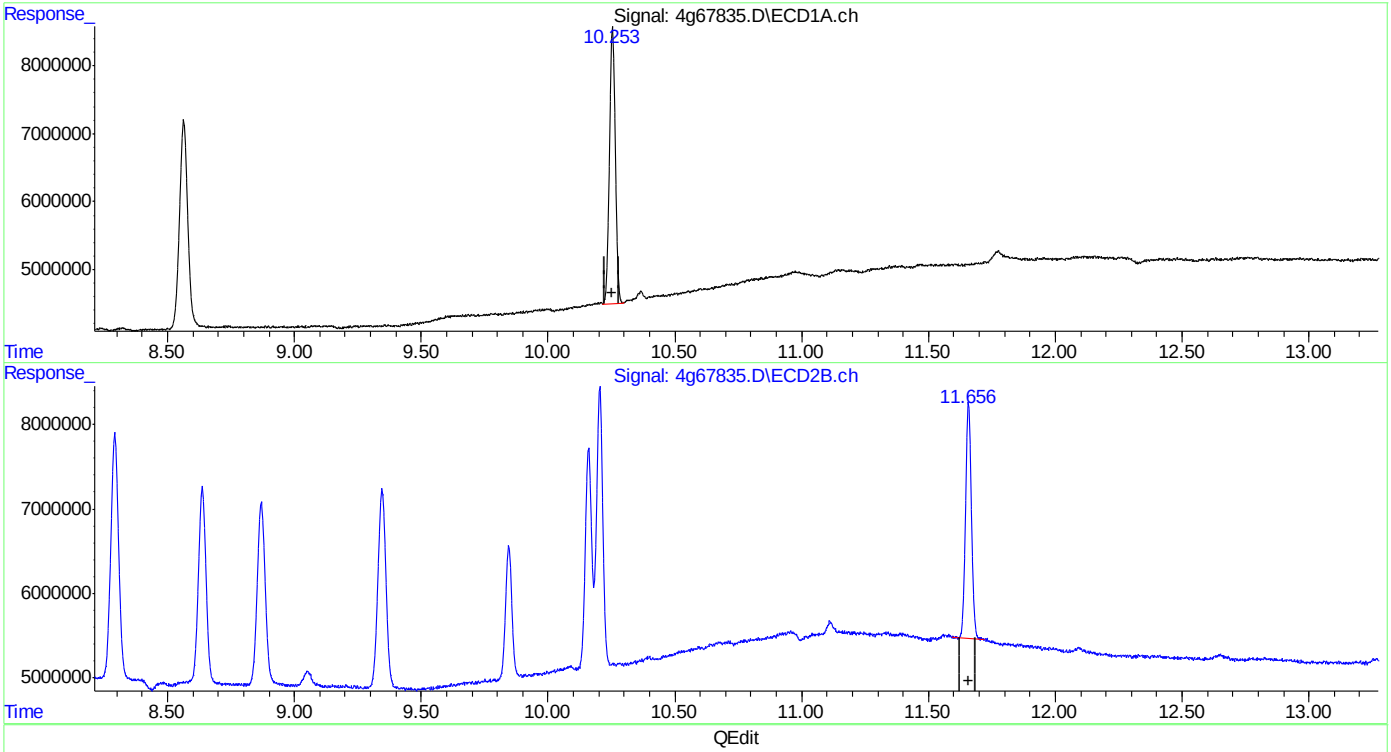
(+) = Expected Retention Time

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 JC19759

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

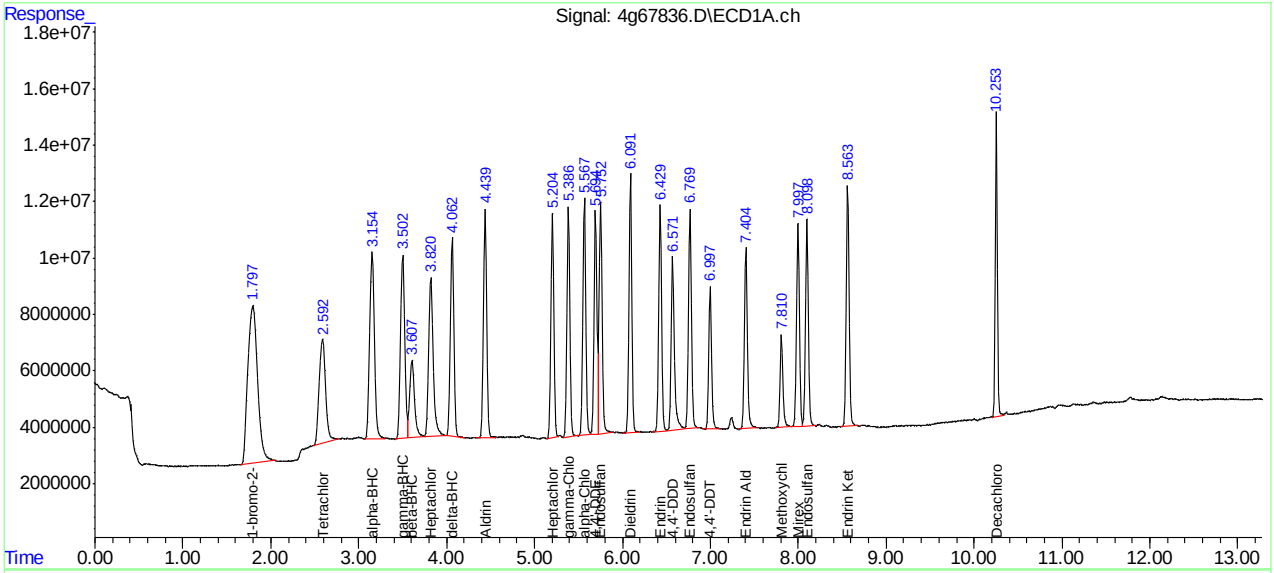
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

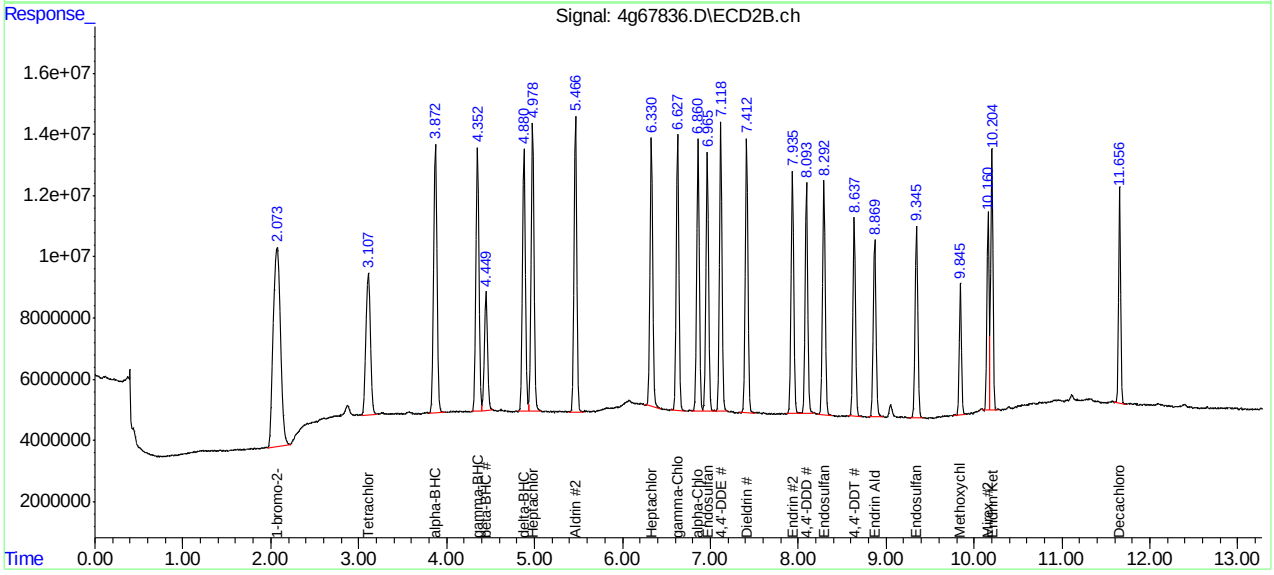
Quantitation Report (QT Reviewed)

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

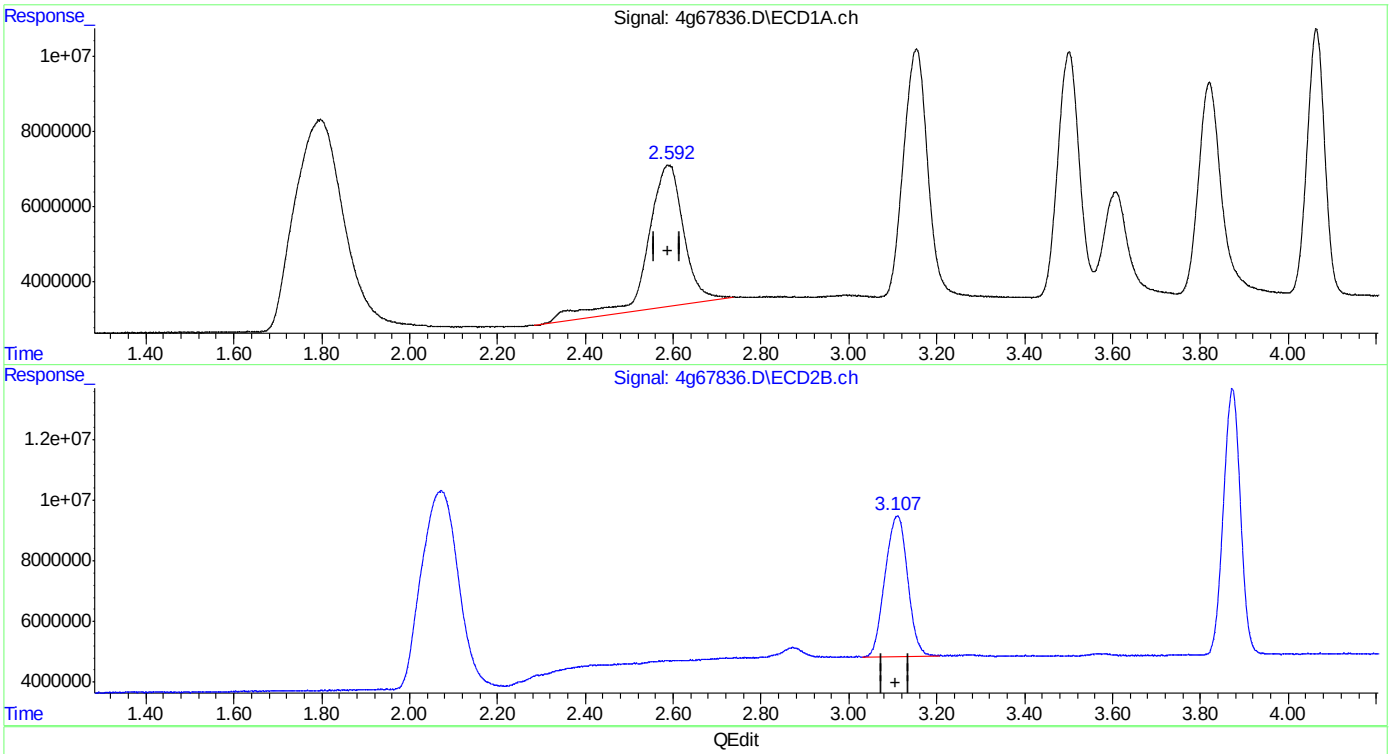
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

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

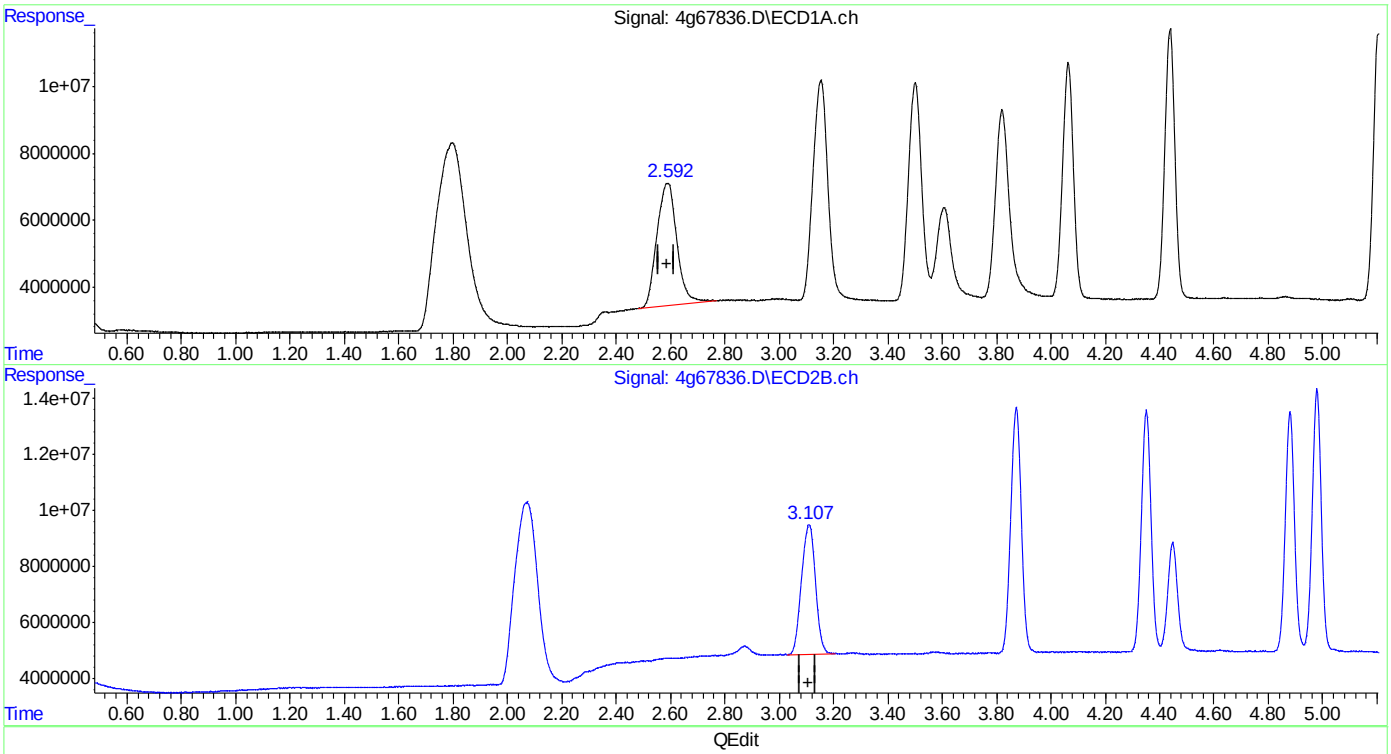
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:53:22 2016 RPT1

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

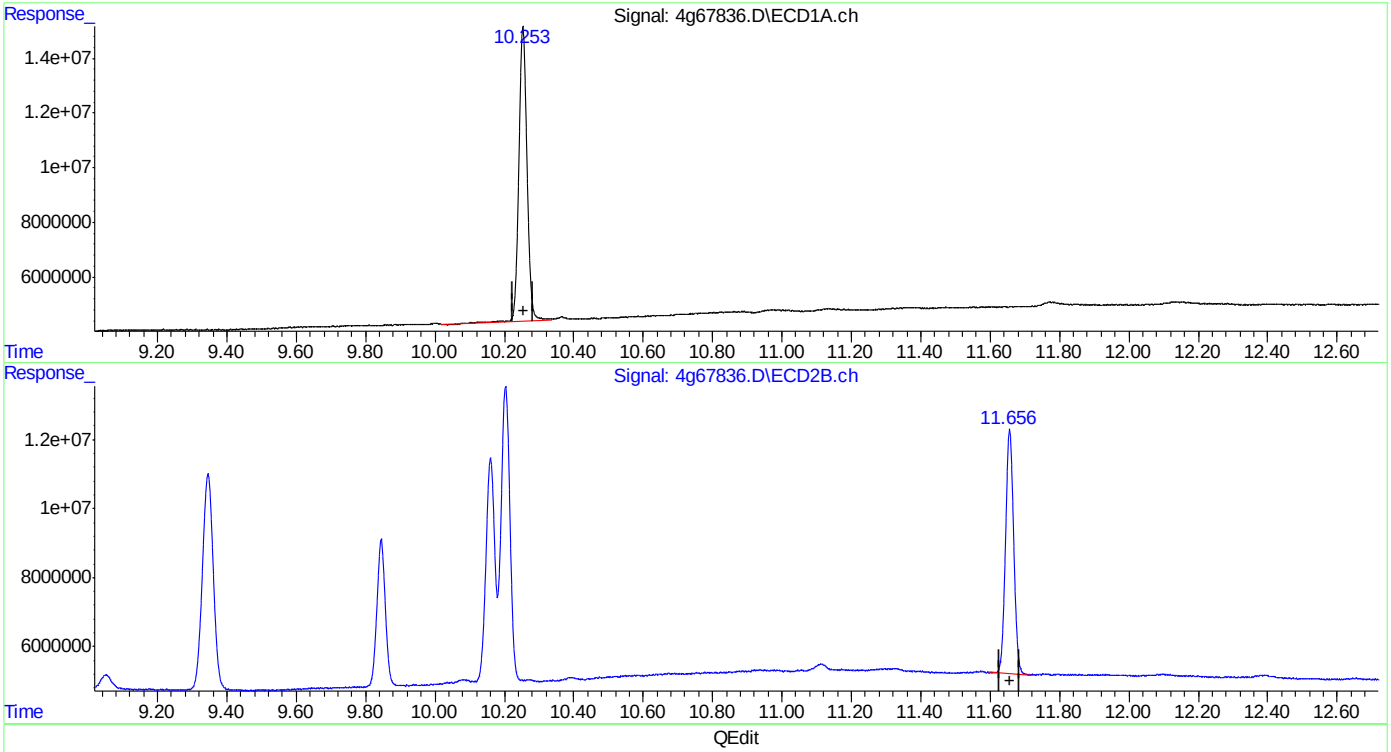
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:53:30 2016 RPT1

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

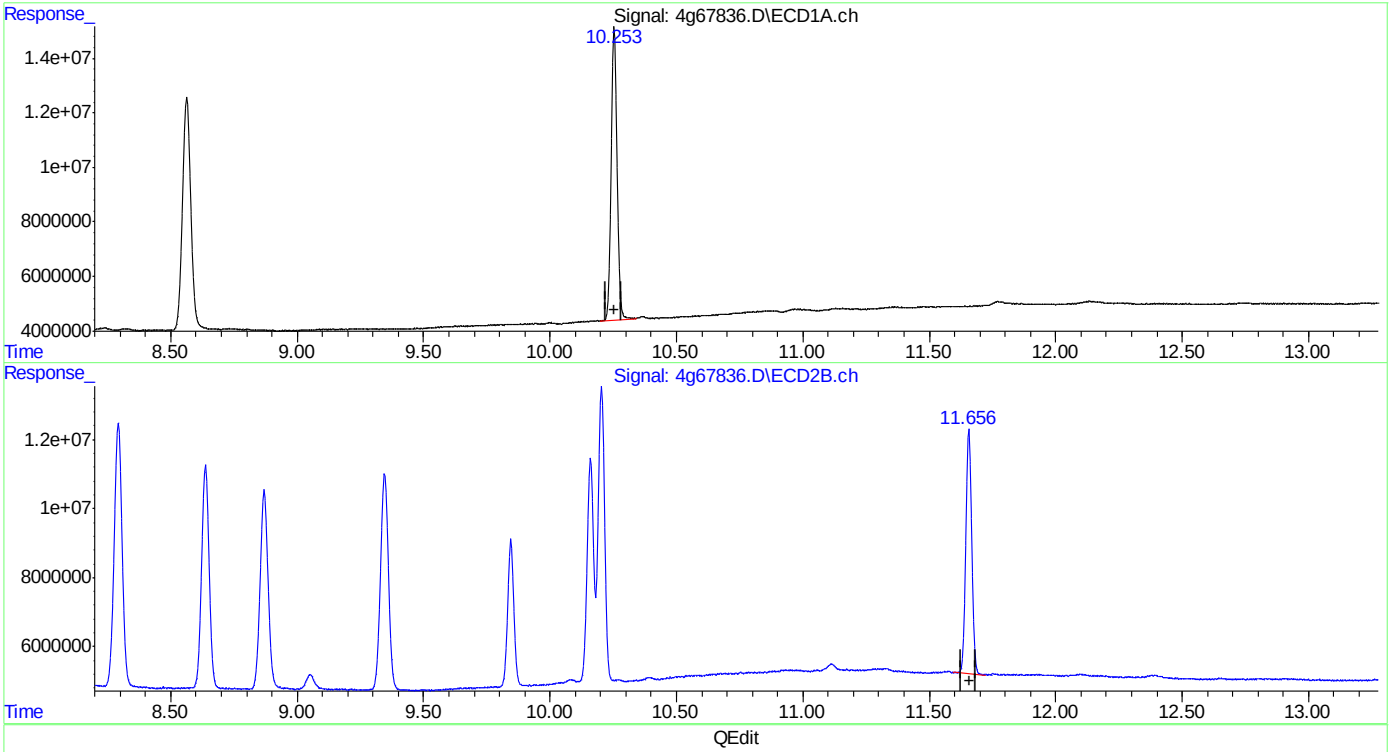
SGS ACCUTEST JC19759

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



(24) Decachlorobiphenyl (SA)
10.253min 20.768 PPB m
response 174257754

(24) Decachlorobiphenyl #2 (SA)
11.656min 19.090 PPB
response 115123212

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.791	2.069	419.5E6	370.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.587	3.108	360.1E6	324.0E6	46.003	48.360
	Spiked Amount 40.000 Range 30 - 150 Recovery = 115.01% 120.90%						
24) SA	Decachlor...	10.255	11.658	335.2E6	223.6E6	41.113	37.600
	Spiked Amount 40.000 Recovery = 102.78% 94.00%						
	Target Compounds						
3) A	alpha-BHC	3.153	3.872	515.9E6	484.4E6	52.777	54.214
4) MA	gamma-BHC	3.500	4.351	455.6E6	432.9E6	54.355	53.362
5) MA	Heptachlor	3.817	4.979	444.5E6	435.4E6	49.387	52.041
6) B	beta-BHC	3.603	4.447	219.6E6	190.4E6	54.352	51.402
7) B	delta-BHC	4.064	4.880	414.3E6	409.6E6	50.407	55.235
8) MB	Aldrin	4.438	5.466	433.3E6	420.7E6	49.515	51.882
9) B	Heptachlo...	5.204	6.329	390.4E6	378.7E6	51.183	50.915
10) B	gamma-Chl...	5.386	6.628	395.0E6	378.2E6	53.418	51.602
11) B	alpha-Chl...	5.568	6.861	399.2E6	364.6E6	52.114	50.133
12) A	Endosulfan I	5.752	6.966	416.3E6	356.3E6	49.954	51.077
13) B	4,4'-DDE	5.693	7.119	371.7E6	380.9E6	61.172	54.983
14) MA	Dieldrin	6.092	7.414	421.3E6	384.5E6	54.464	53.107
15) MA	Endrin	6.431	7.934	387.4E6	340.5E6	53.756	52.253
16) A	4,4'-DDD	6.570	8.094	331.2E6	308.2E6	58.075	52.708
17) B	Endosulfa...	6.769	8.293	381.6E6	332.8E6	54.383	51.235
18) MA	4,4'-DDT	6.998	8.638	254.1E6	277.5E6	45.953	55.478
19) B	Endrin Al...	7.404	8.871	316.8E6	249.5E6	53.489m	47.903
20) B	Endosulfa...	8.101	9.346	340.5E6	271.4E6	56.456	50.486
21) A	Methoxychlor	7.809	9.846	155.0E6	140.6E6	50.111m	49.602
22)	Mirex	7.999	10.161	327.7E6	221.7E6	50.921	45.152
23) B	Endrin Ke...	8.563	10.205	406.4E6	307.8E6	58.042	53.351

SemiQuant Compounds - Not Calibrated on this Instrument

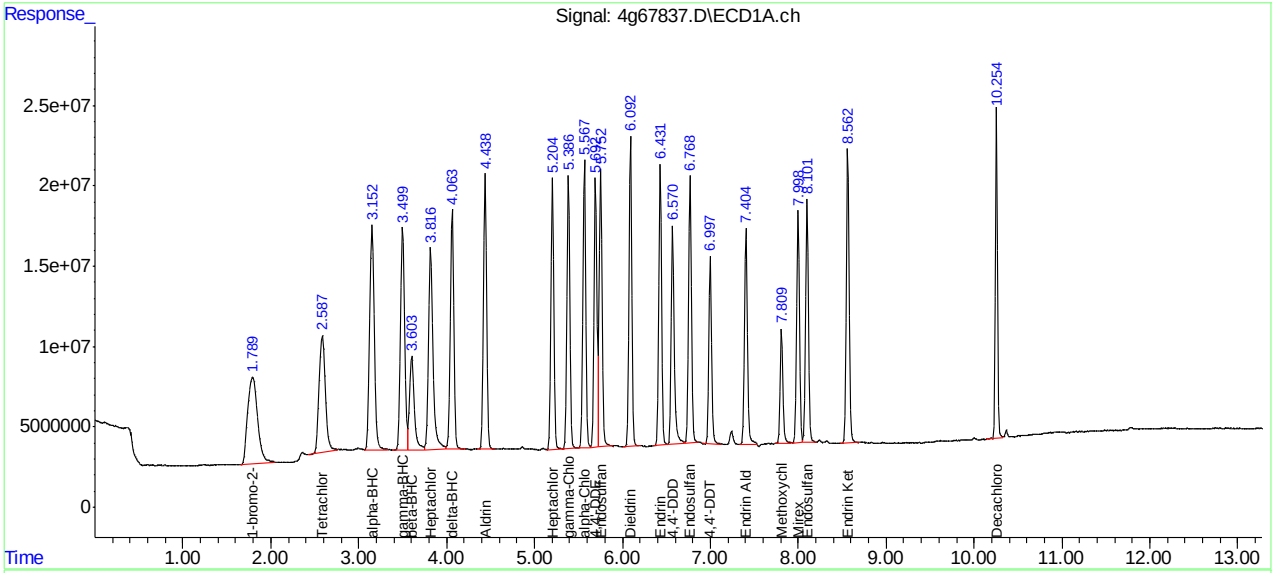
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

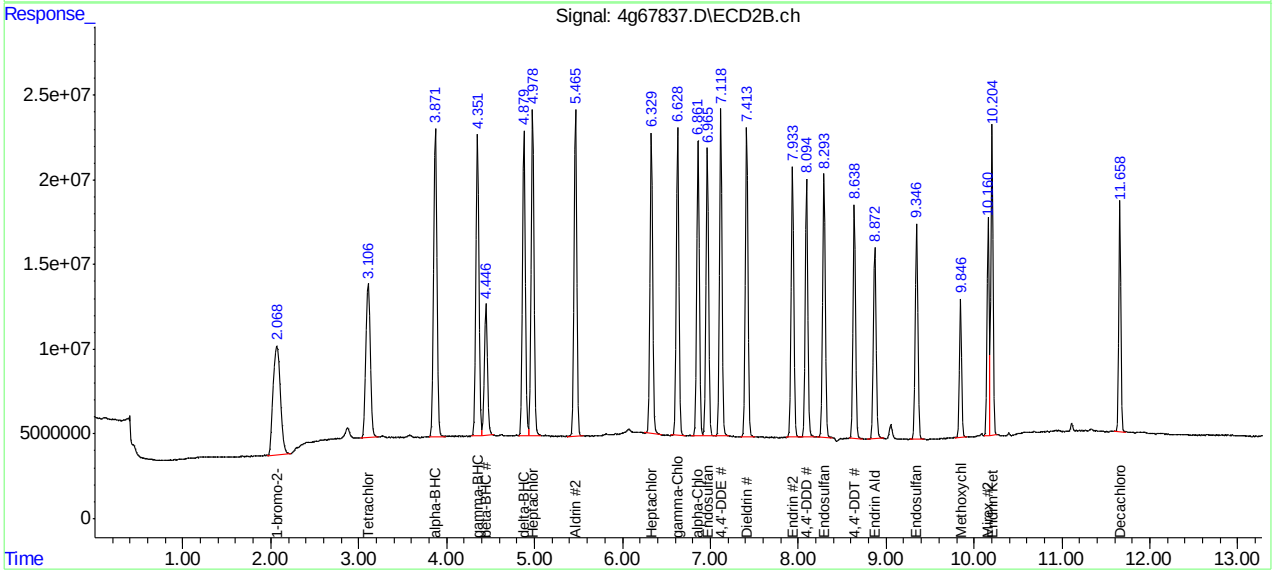
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67837.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 15:41	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

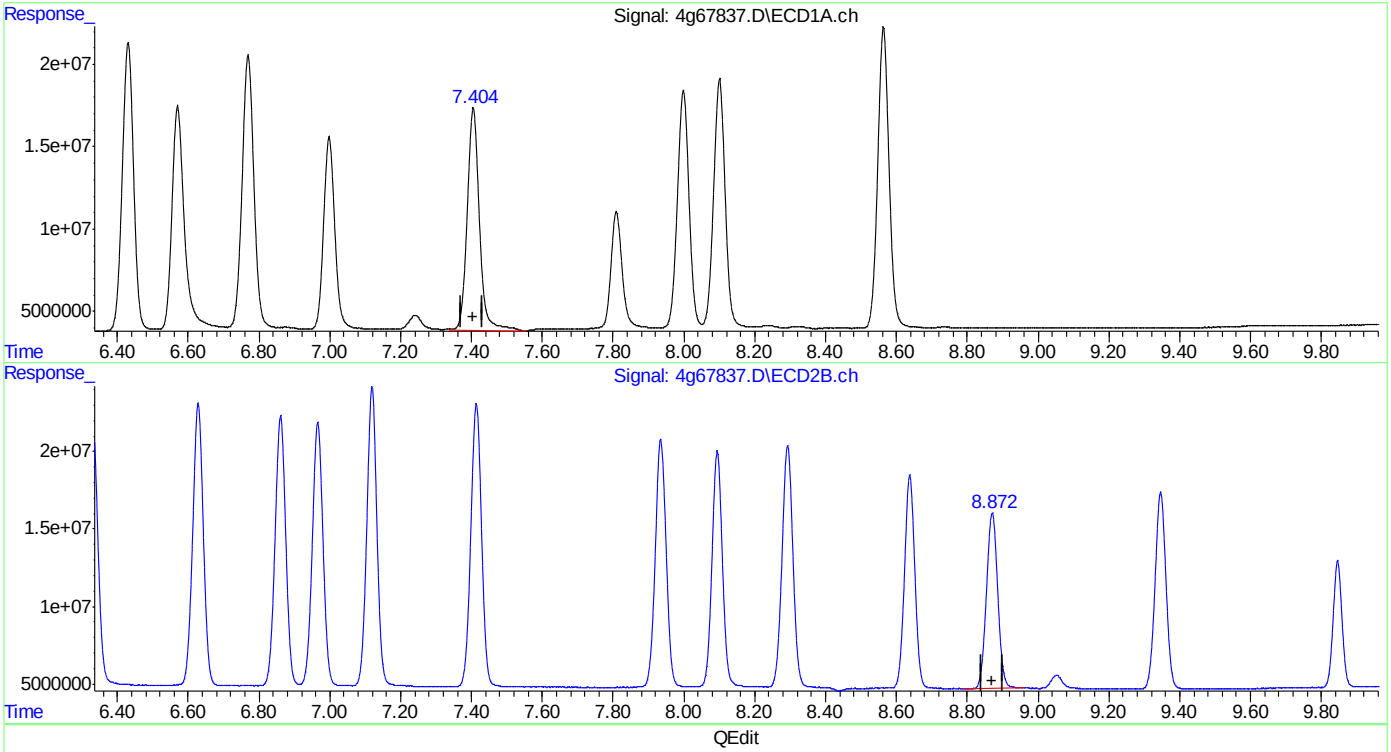
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin aldehyde	7421-93-4	1	7.40	Poorly defined baseline
Methoxychlor	72-43-5	1	7.81	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:43:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.405min 54.582 PPB
response 323282330

(19) Endrin Aldehyde #2 (B)
8.871min 47.903 PPB
response 249500342

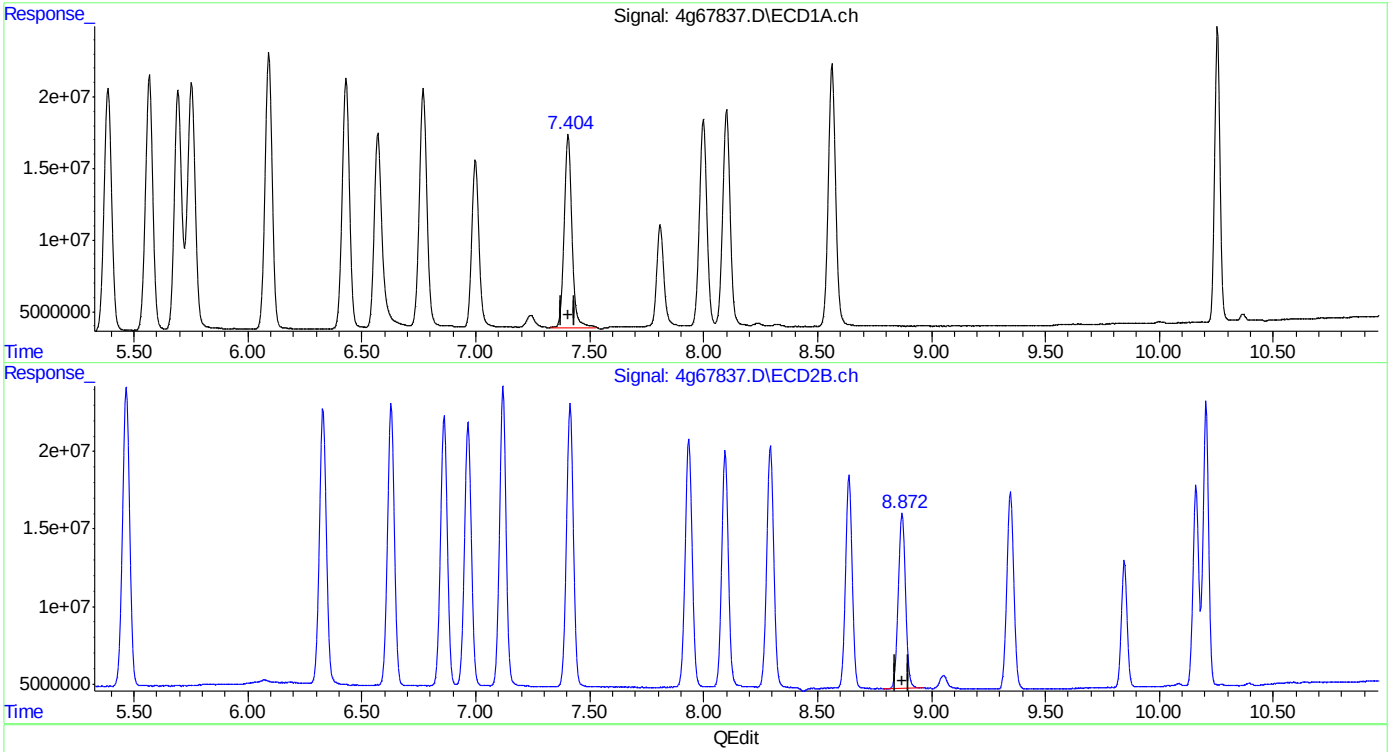
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:43:33 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:43:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.404min 53.489 PPB m
response 316808768

(19) Endrin Aldehyde #2 (B)
8.871min 47.903 PPB
response 249500342

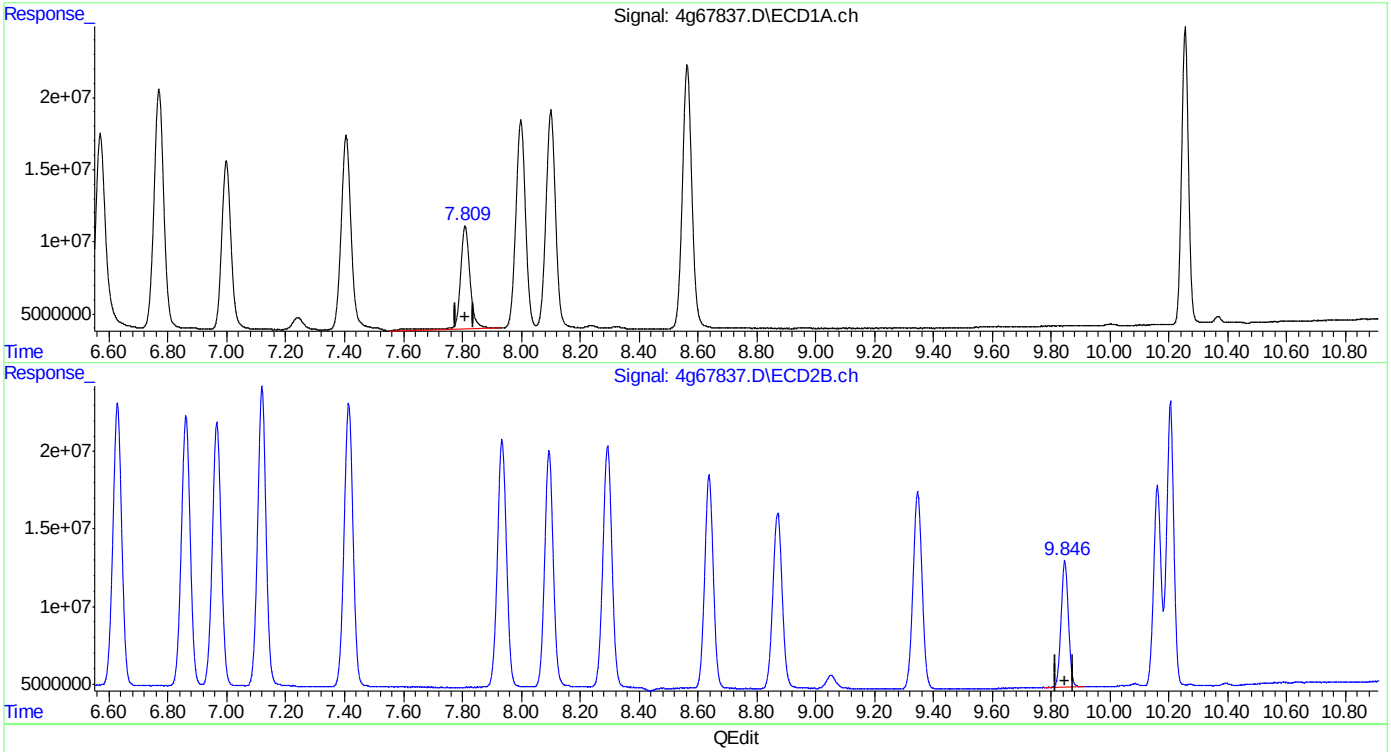
(+) = Expected Retention Time

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

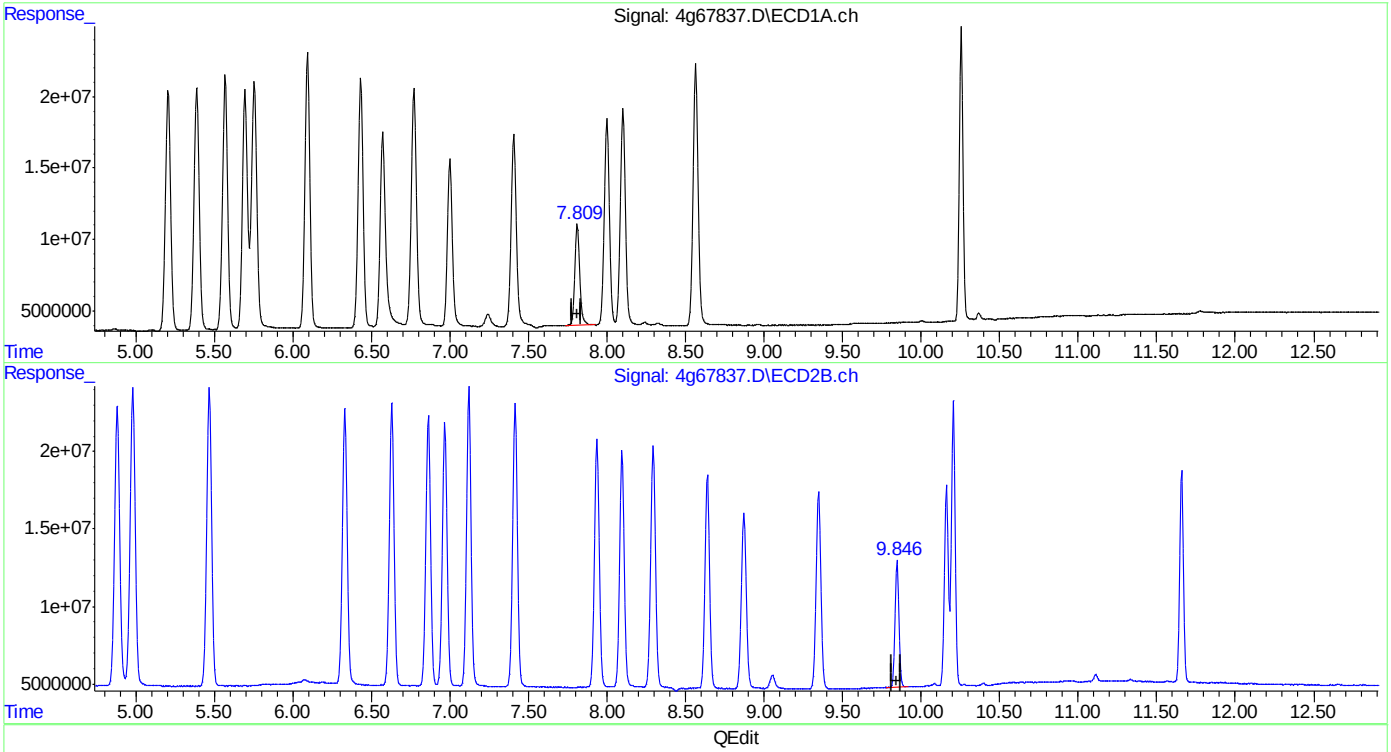
SGS ACCUTEST JC19759

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



(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

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

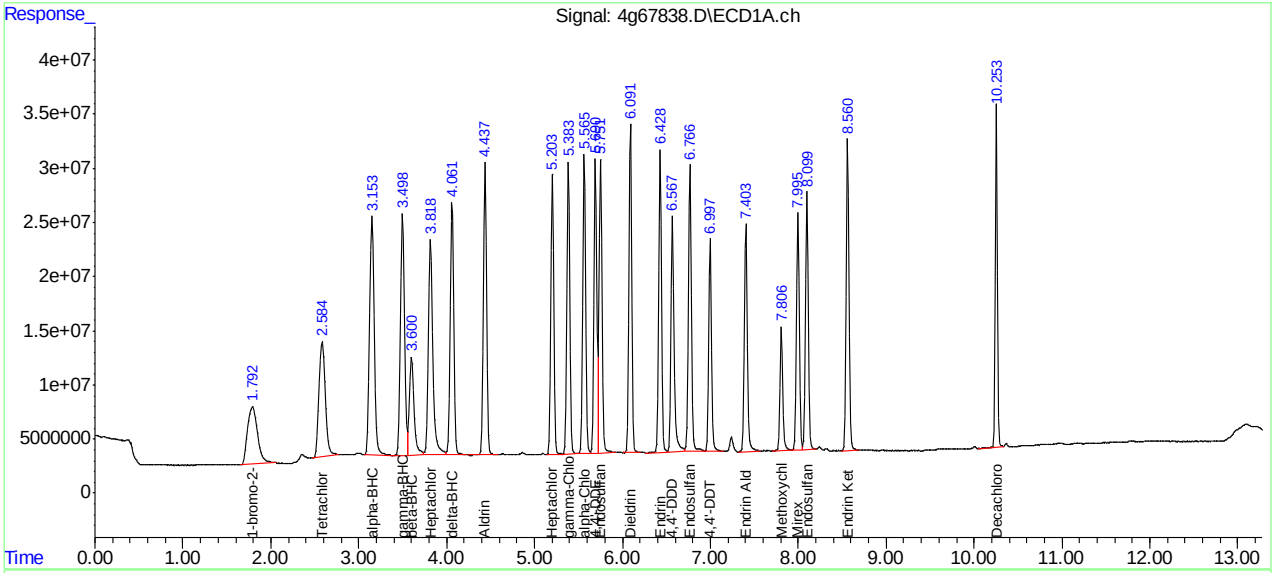
6

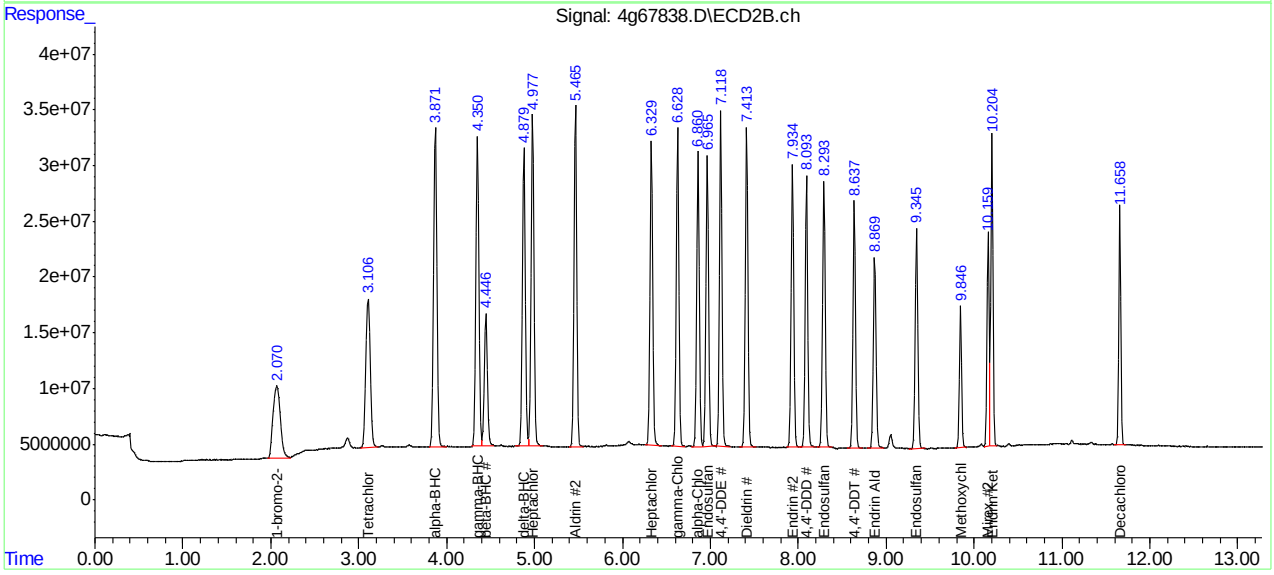
Quantitation Report (QT Reviewed)

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





SGS ACCUTEST JC19759

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

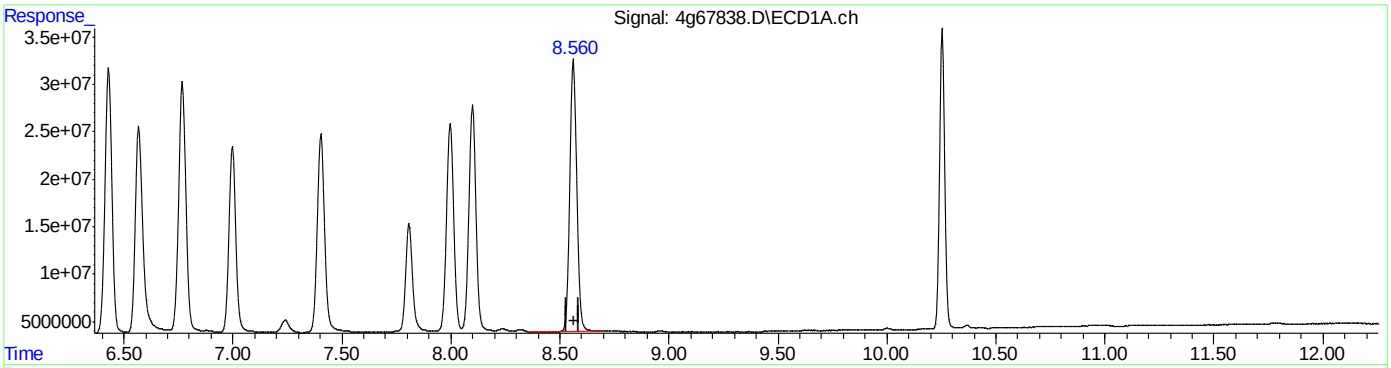
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin ketone	53494-70-5	1	8.56	Poorly defined baseline

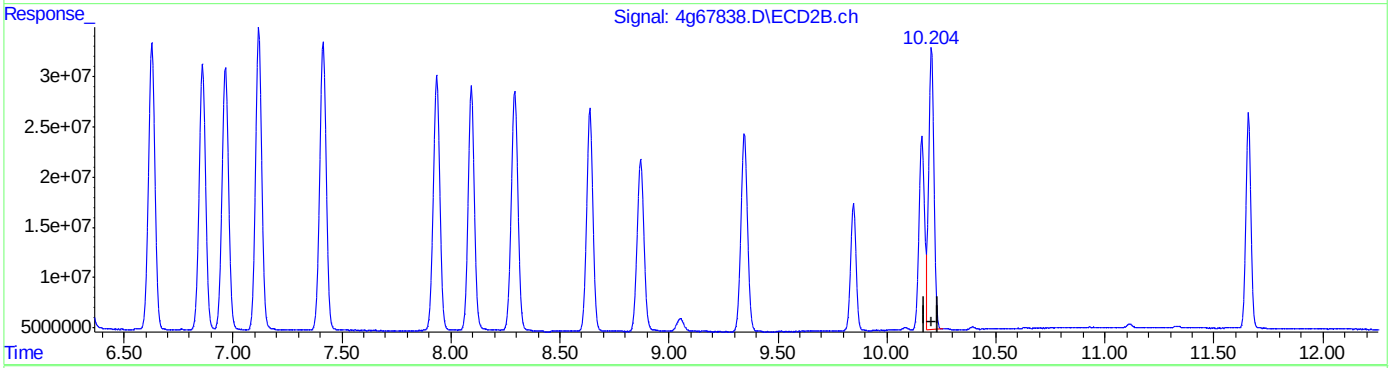
Quantitation Report (Qedit)

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





QEdit

(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

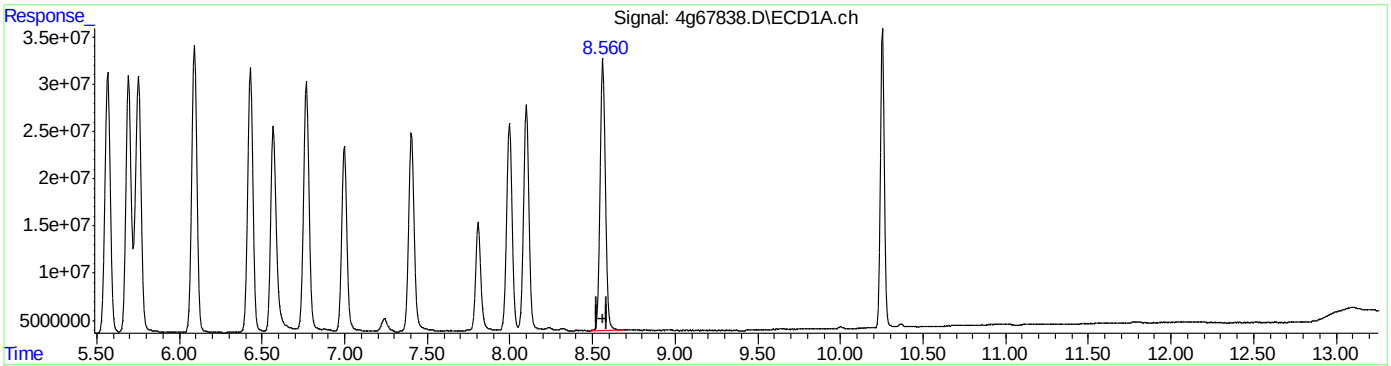
SGS ACCUTEST JC19759

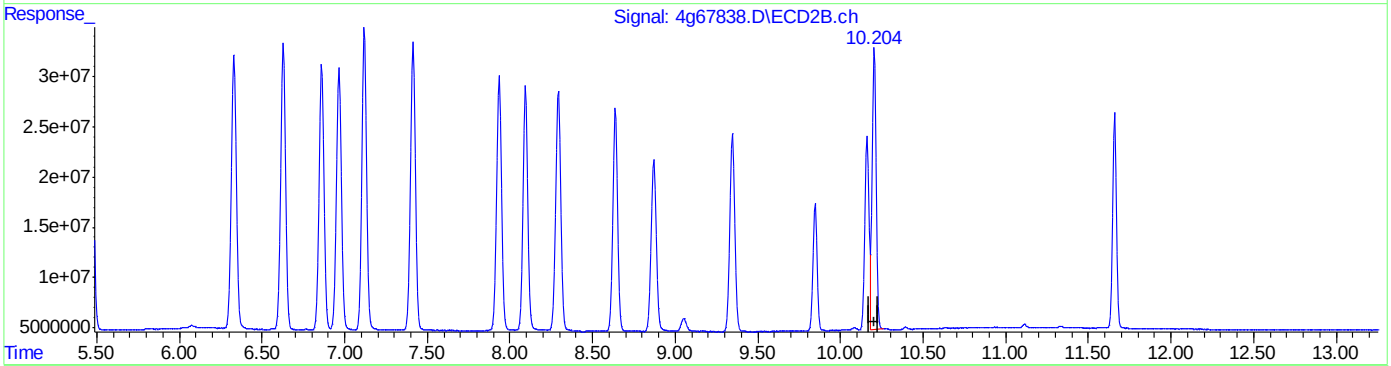
Quantitation Report (Qedit)

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





QEdit

(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
4PST1778.M Tue May 03 14:52:10 2016 RPT1

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

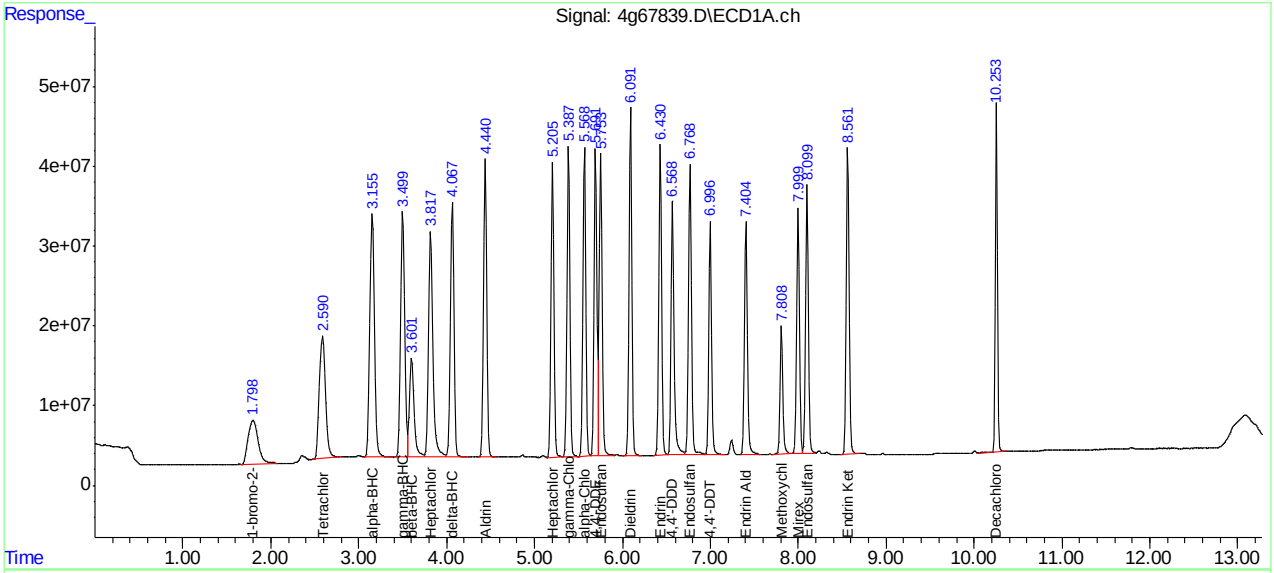
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

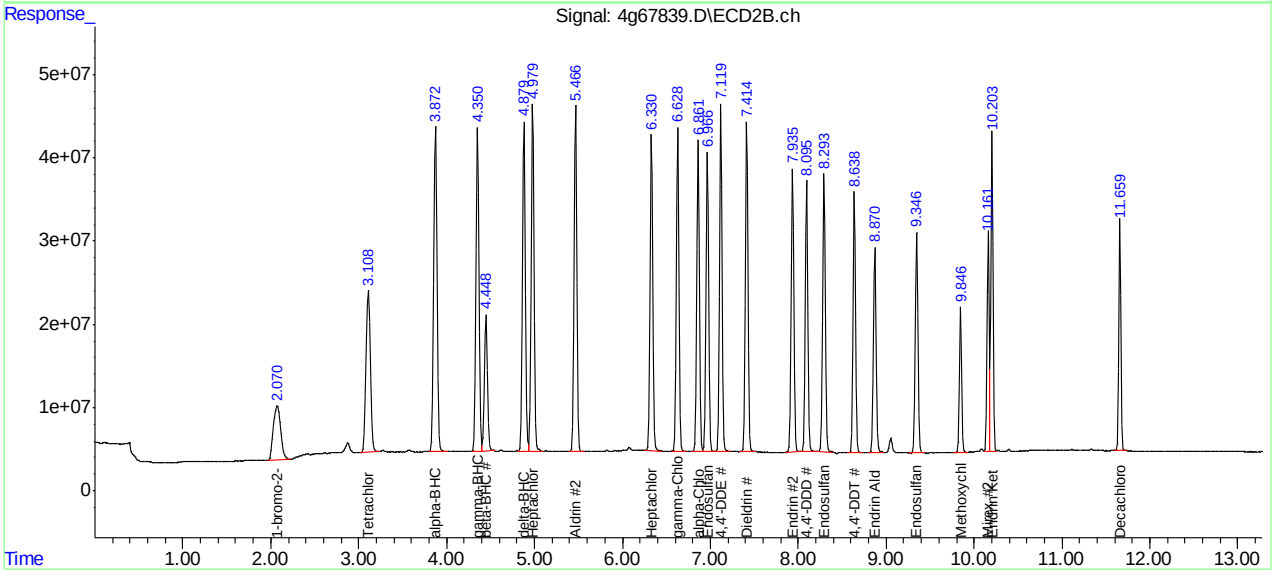
Quantitation Report (QT Reviewed)

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						

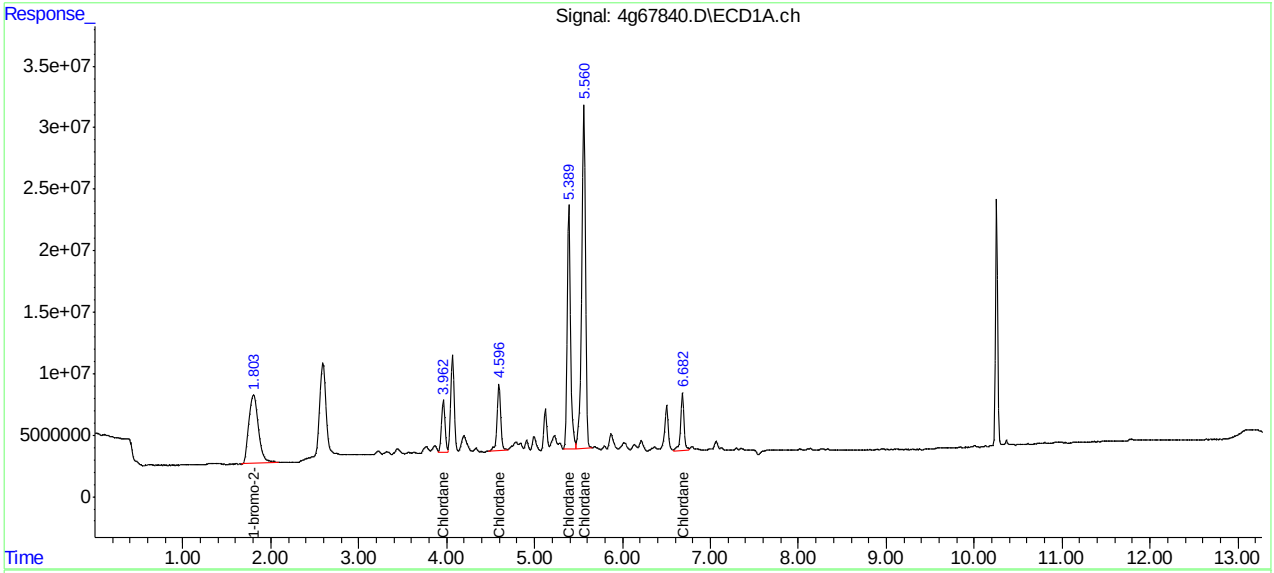
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

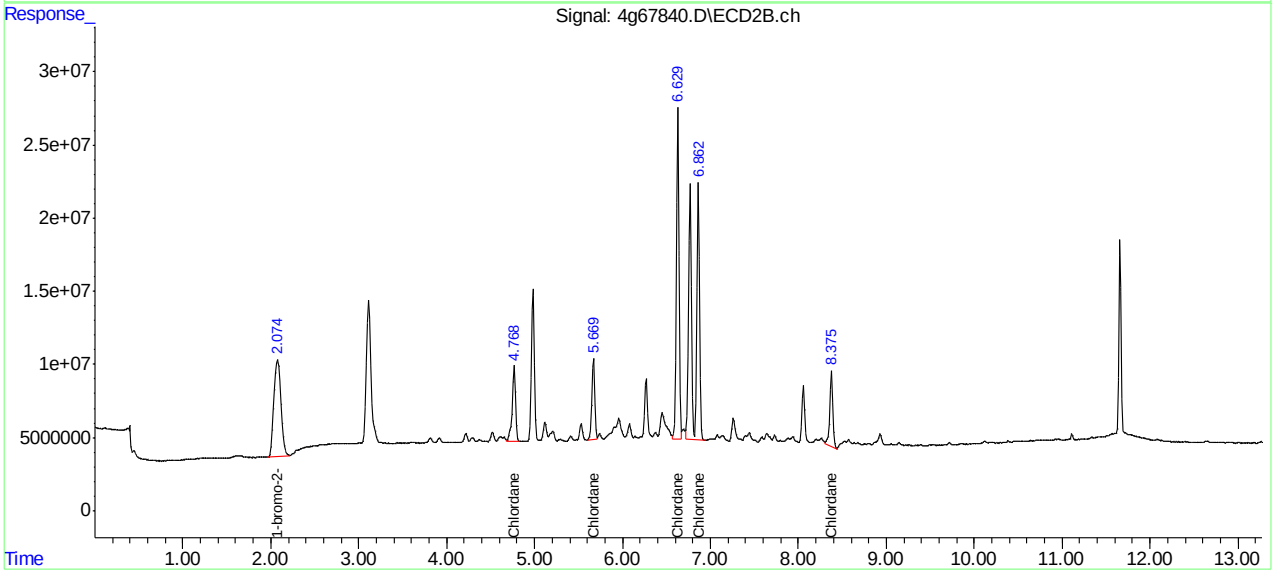
Quantitation Report (QT Reviewed)

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

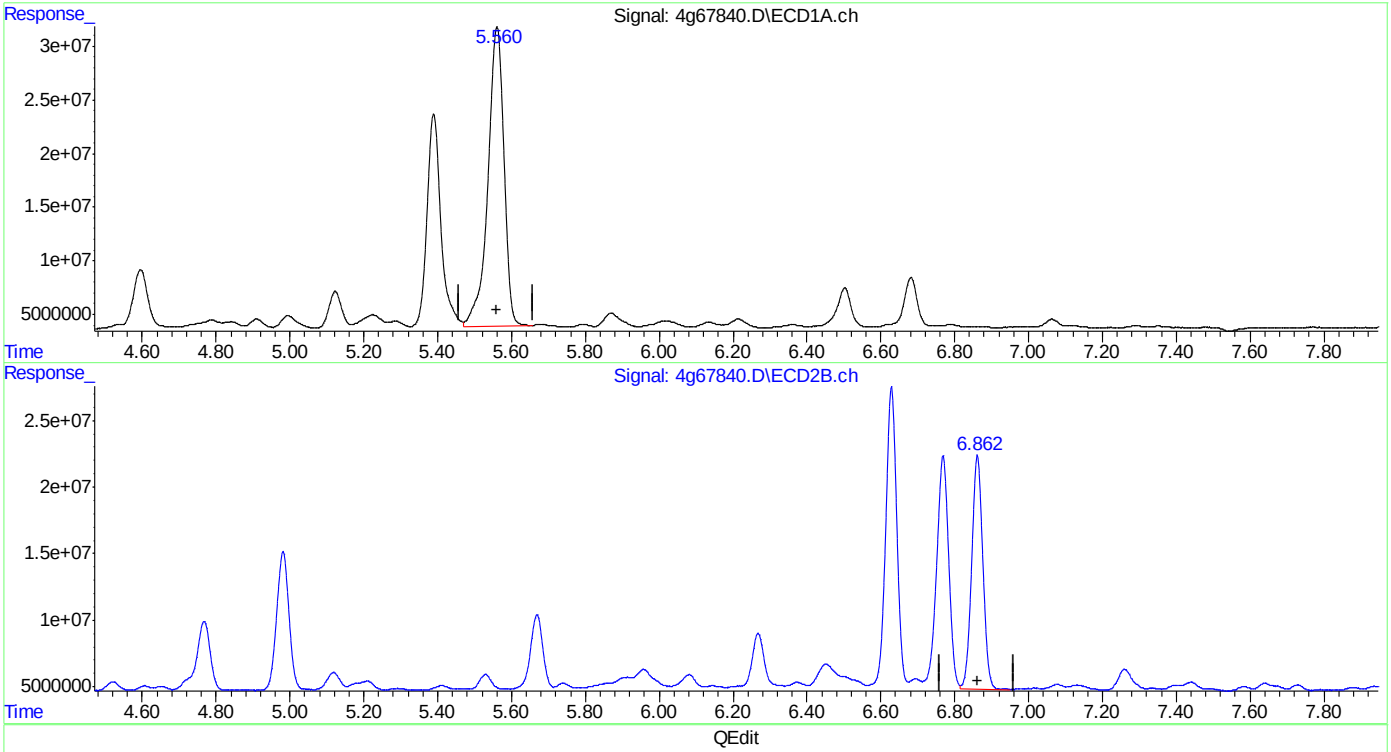
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Chlordane-D		2	6.86	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.66	Poorly defined baseline

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

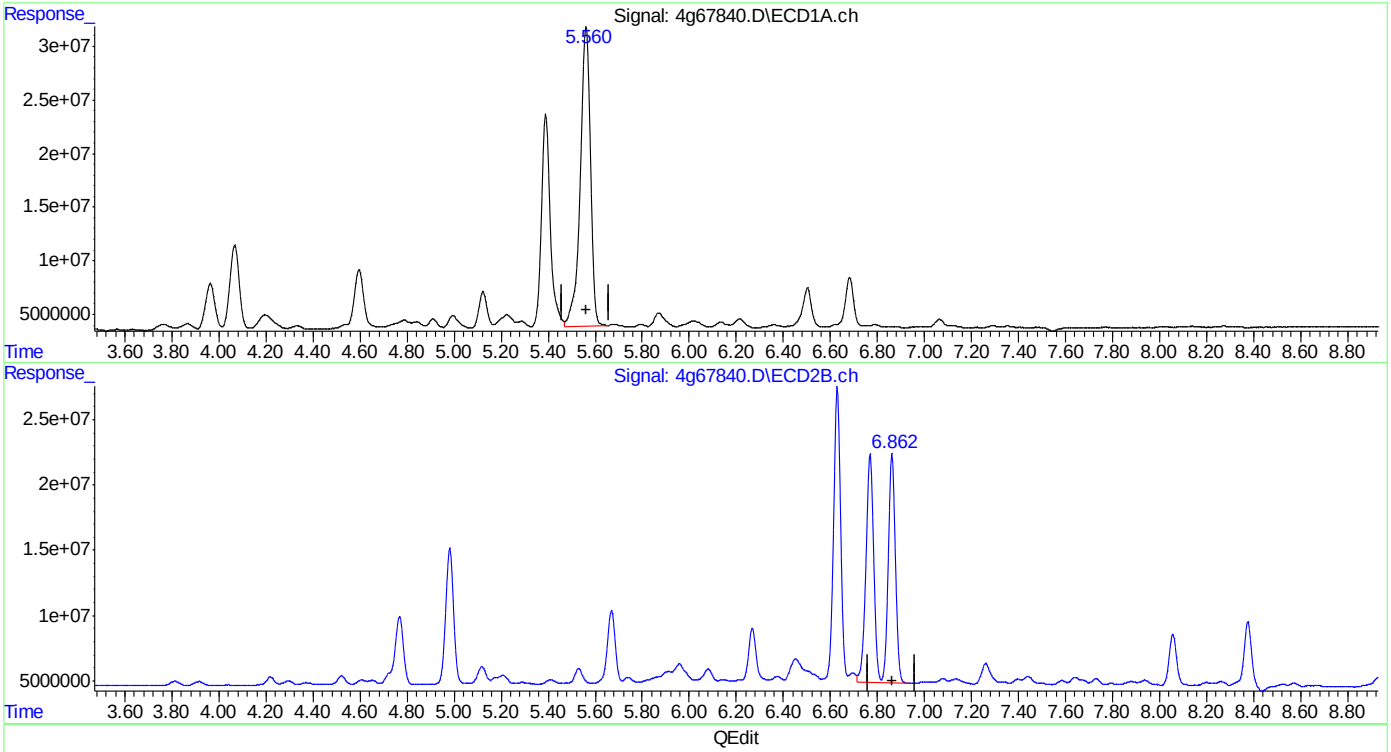
SGS ACCUTEST JC19759

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 552.743 PPB m
response 770308138

(+) = Expected Retention Time

SGS ACCUTEST JC19759

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

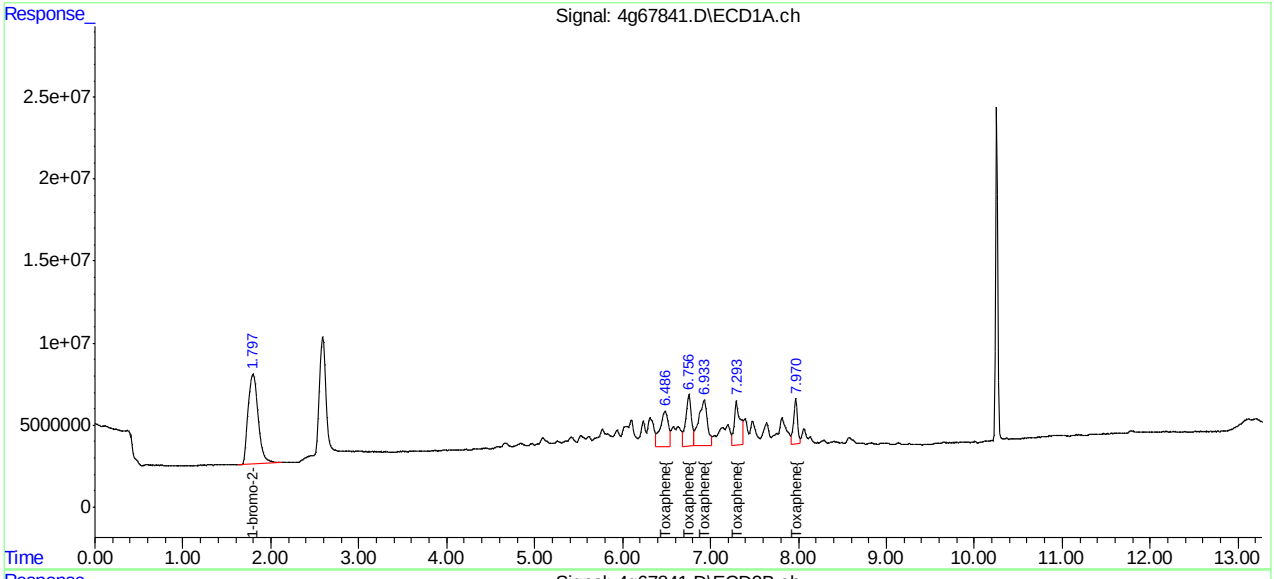
SGS ACCUTEST JC19759

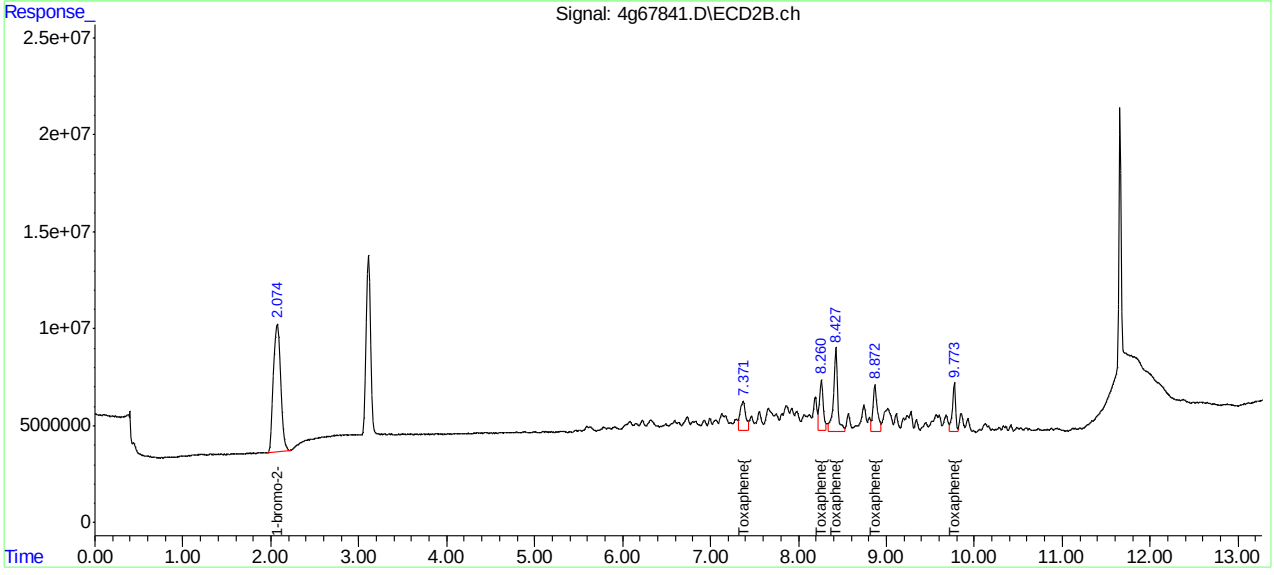
Quantitation Report (QT Reviewed)

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





SGS ACCUTEST JC19759

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

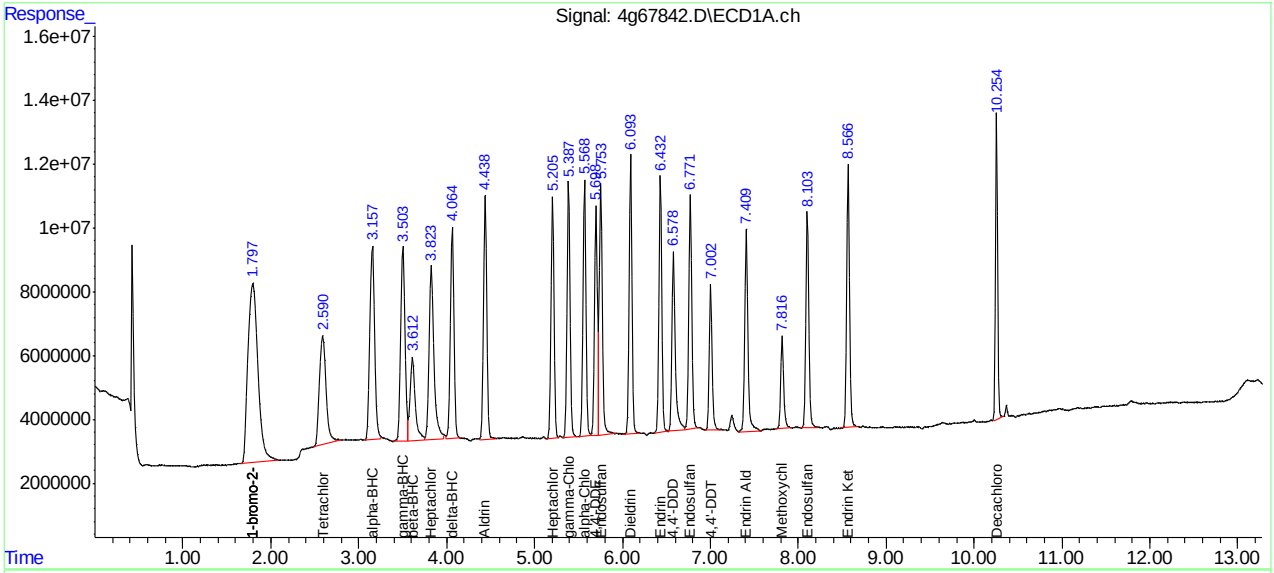
SGS ACCUTEST JC19759

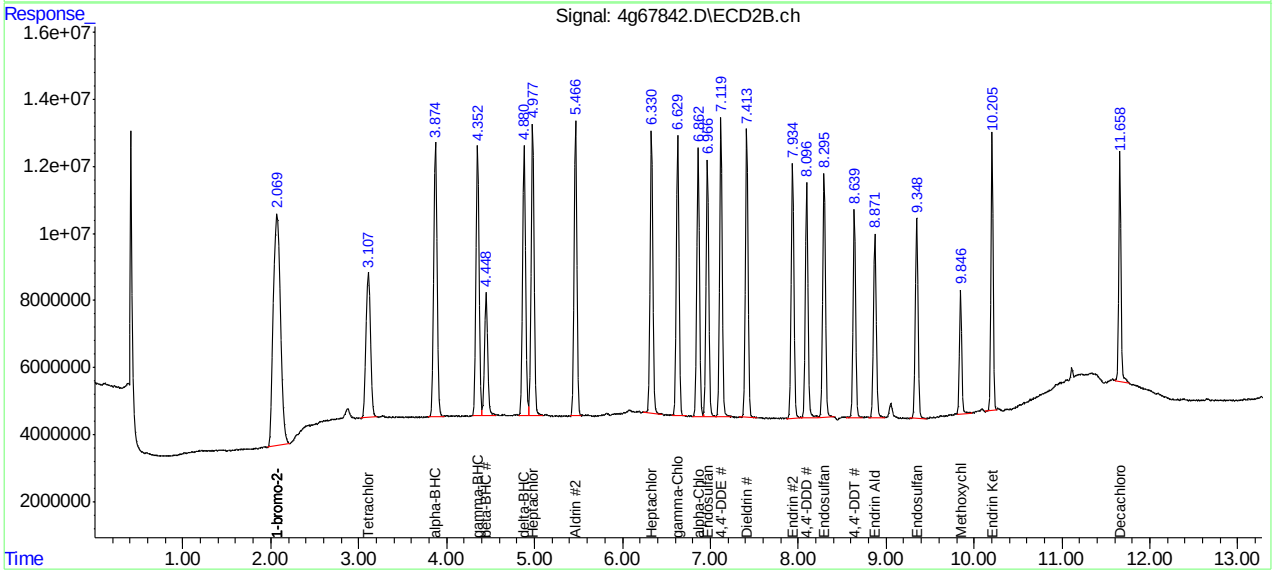
Quantitation Report (QT Reviewed)

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

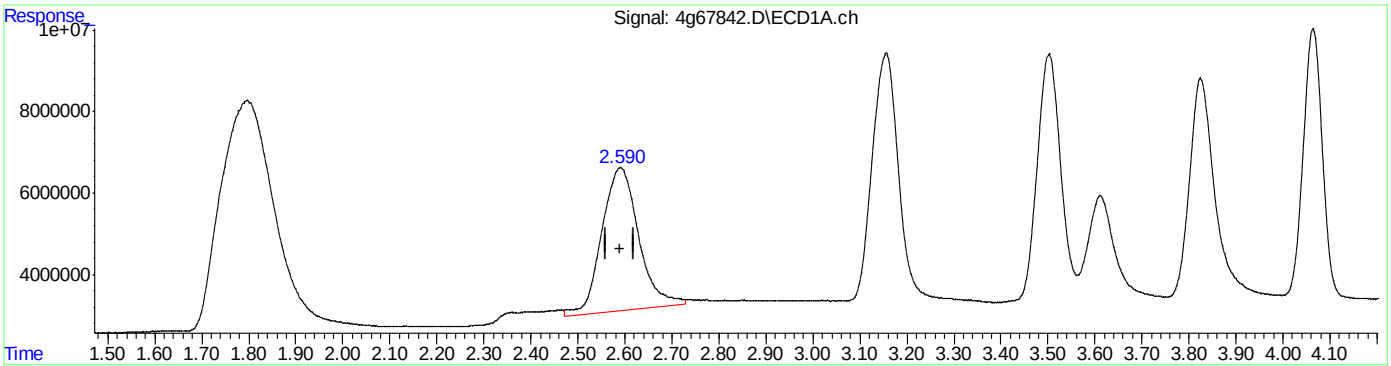
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
4,4'-DDT	50-29-3	2	8.64	Poor instrument integration
Methoxychlor	72-43-5	2	9.85	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.25	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	11.66	Poor instrument integration

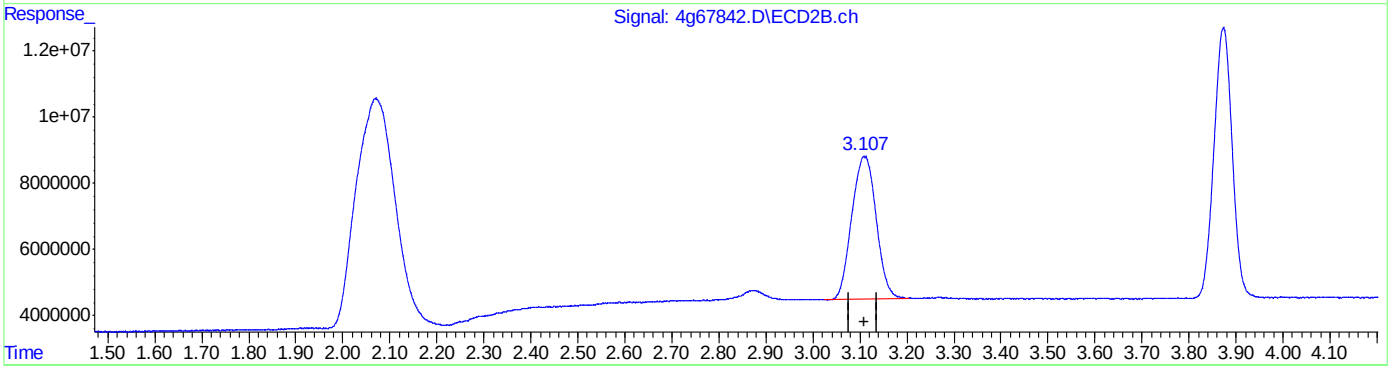
Quantitation Report (Qedit)

```
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

4PST1778.M Tue May 03 15:43:46 2016 RPT1

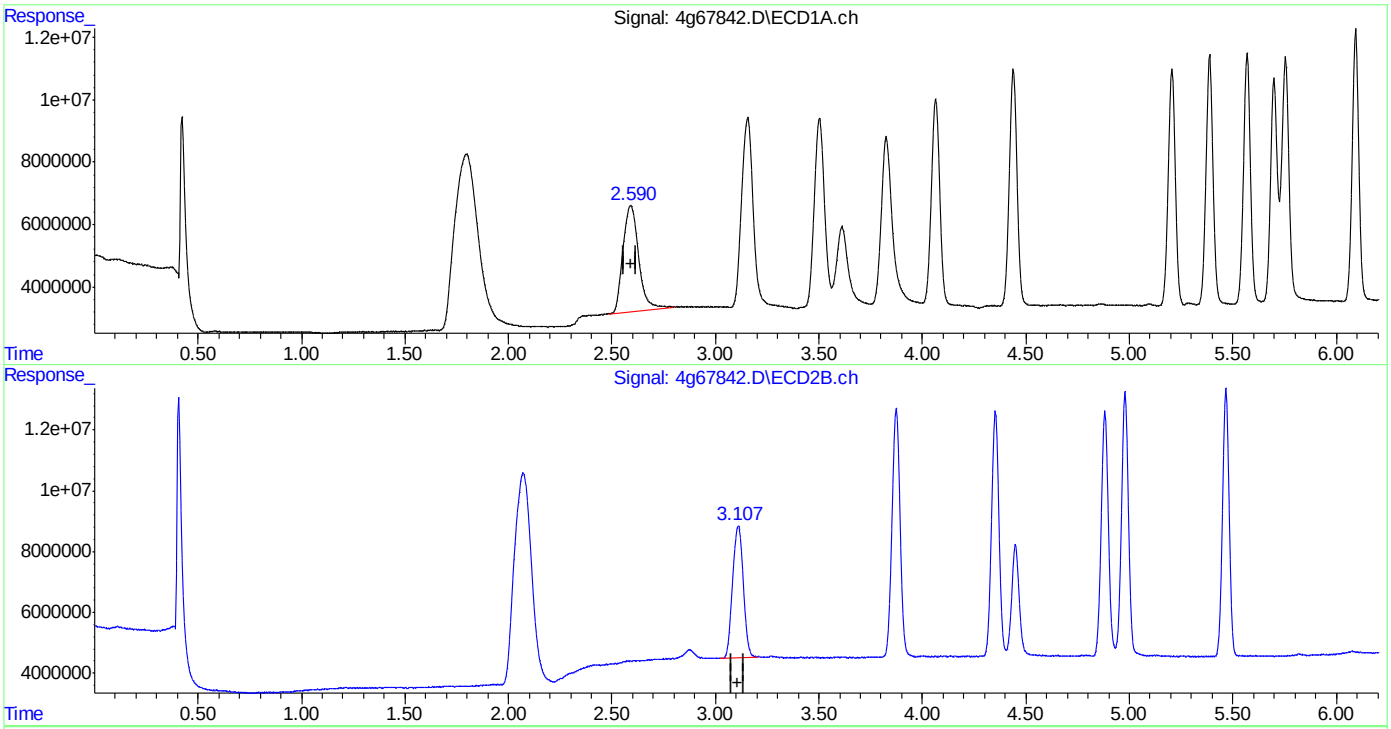
SGS ACCUTEST JC19759

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

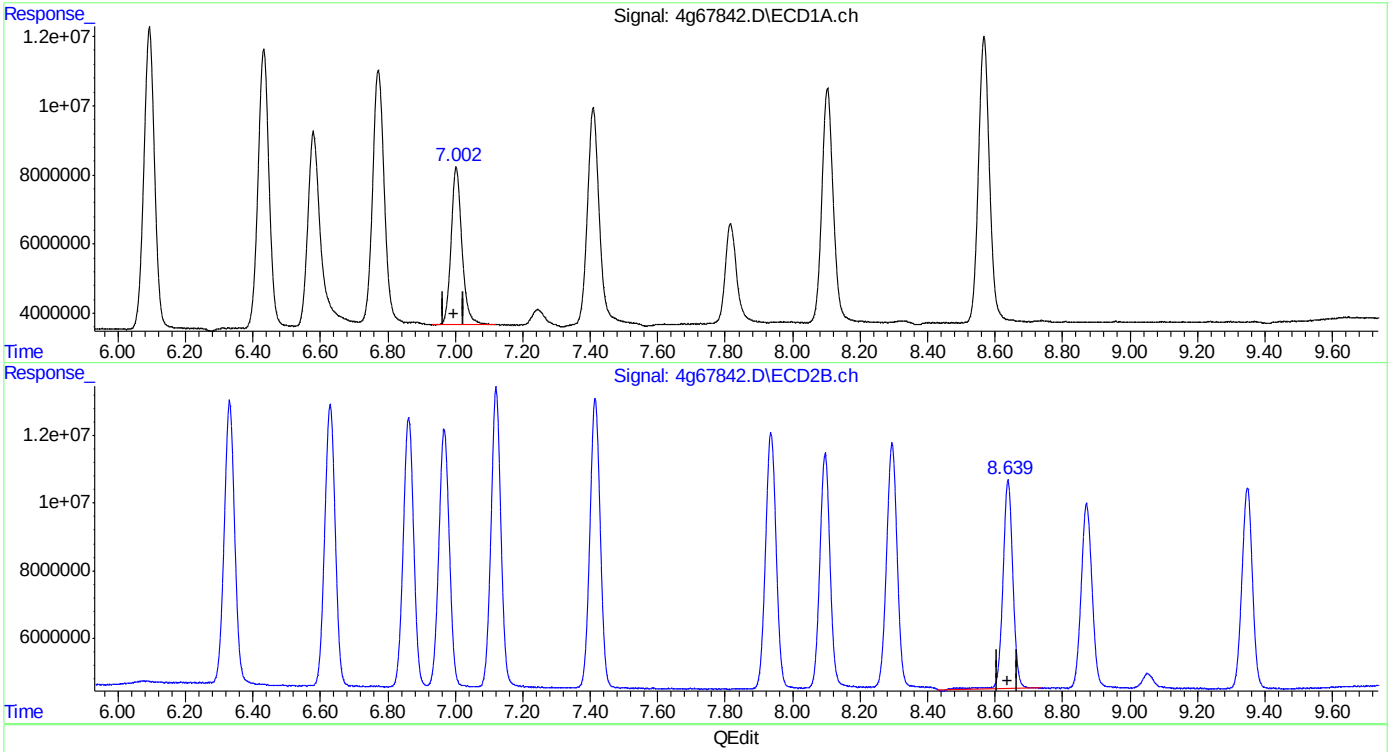
(+) = Expected Retention Time

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

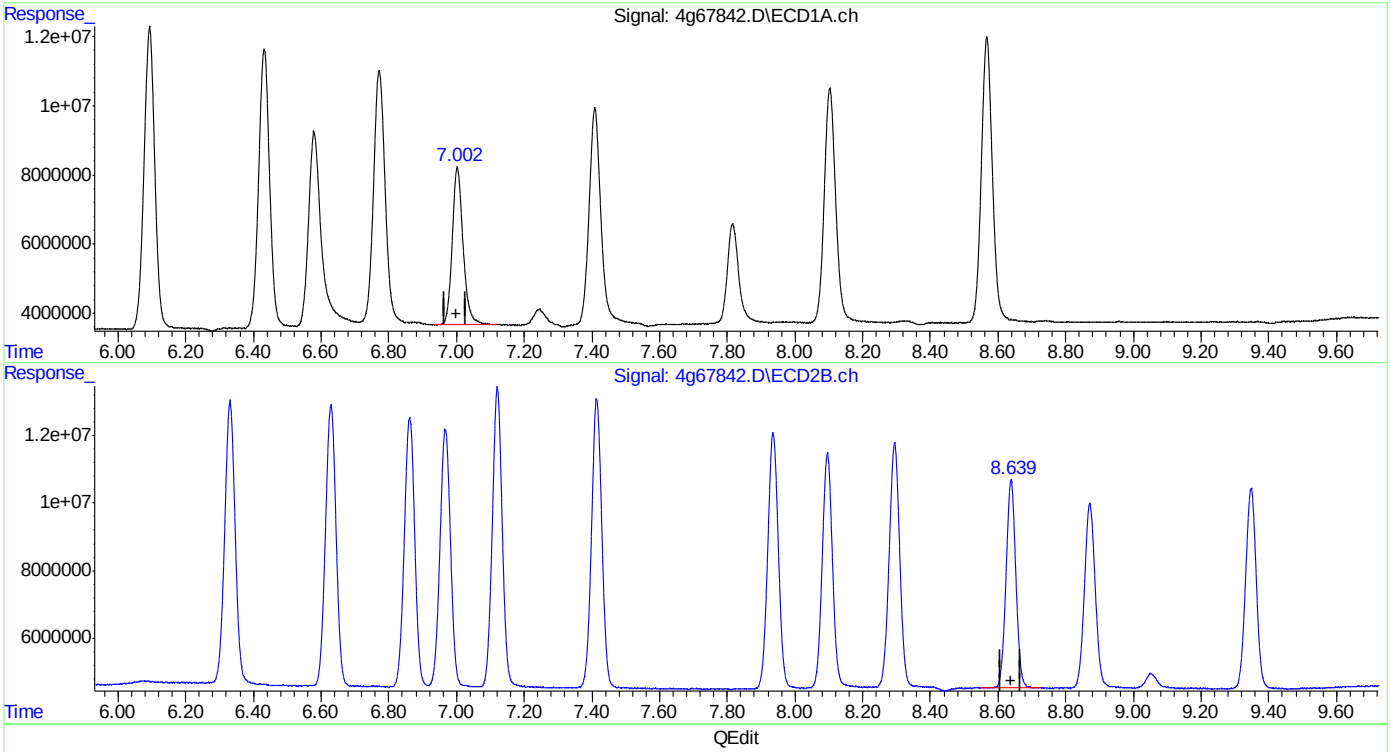
(+) = Expected Retention Time

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

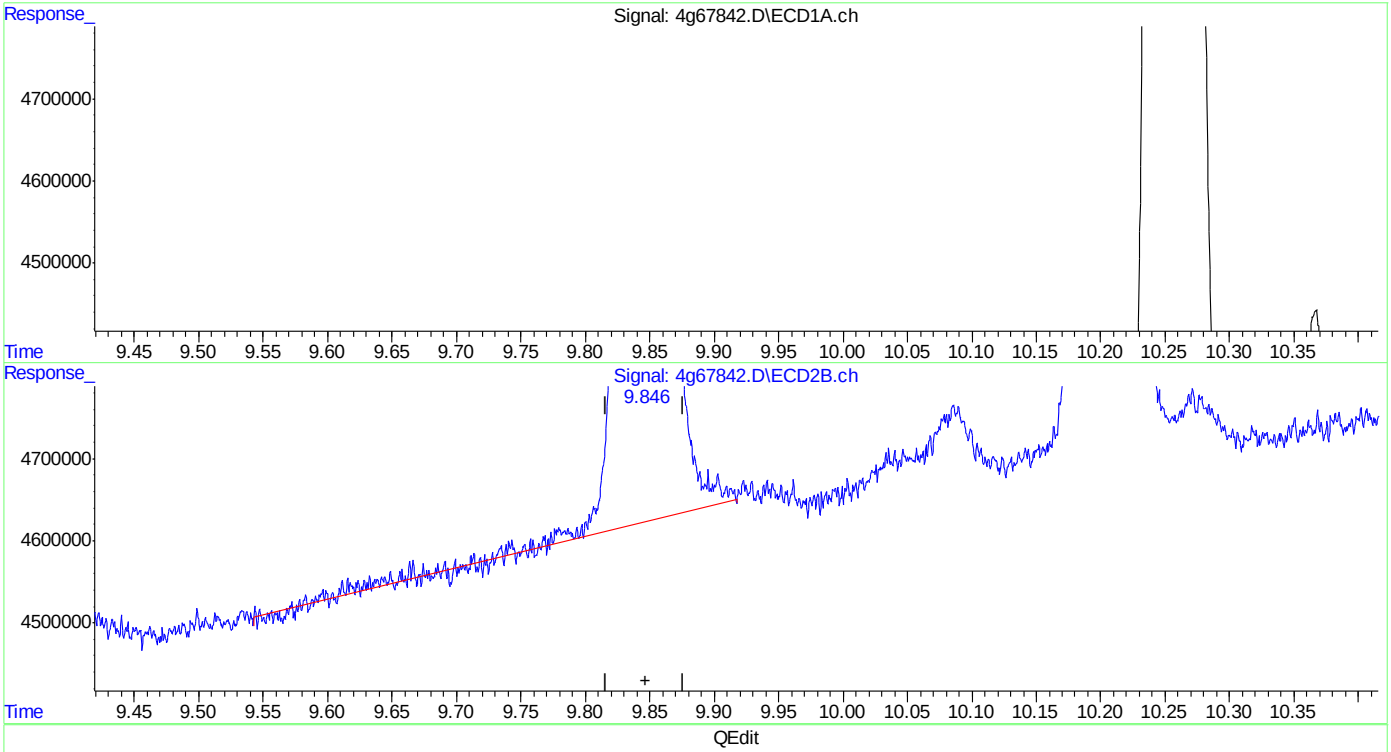
(+) = Expected Retention Time

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

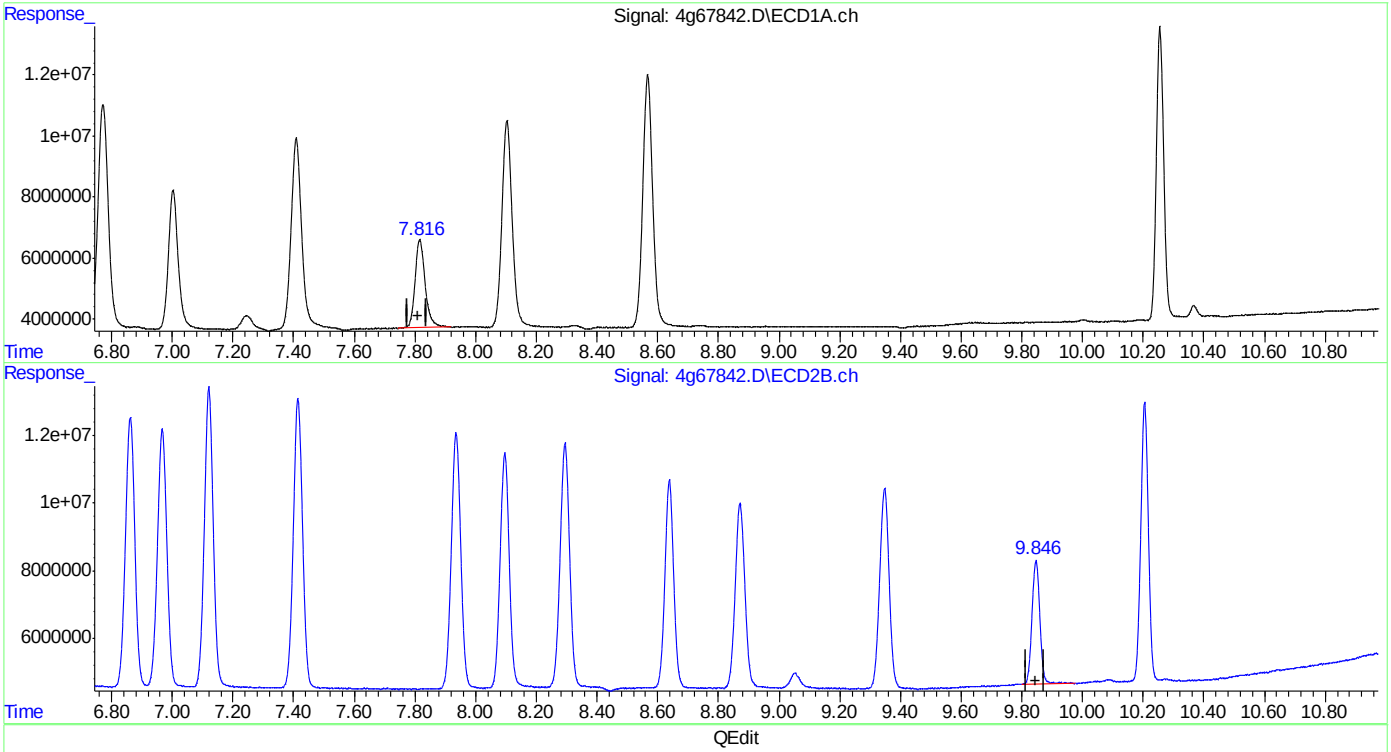
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.816min 22.387 PPB
response 66800291

(21) Methoxychlor #2 (A)
9.846min 21.810 PPB m
response 67219438

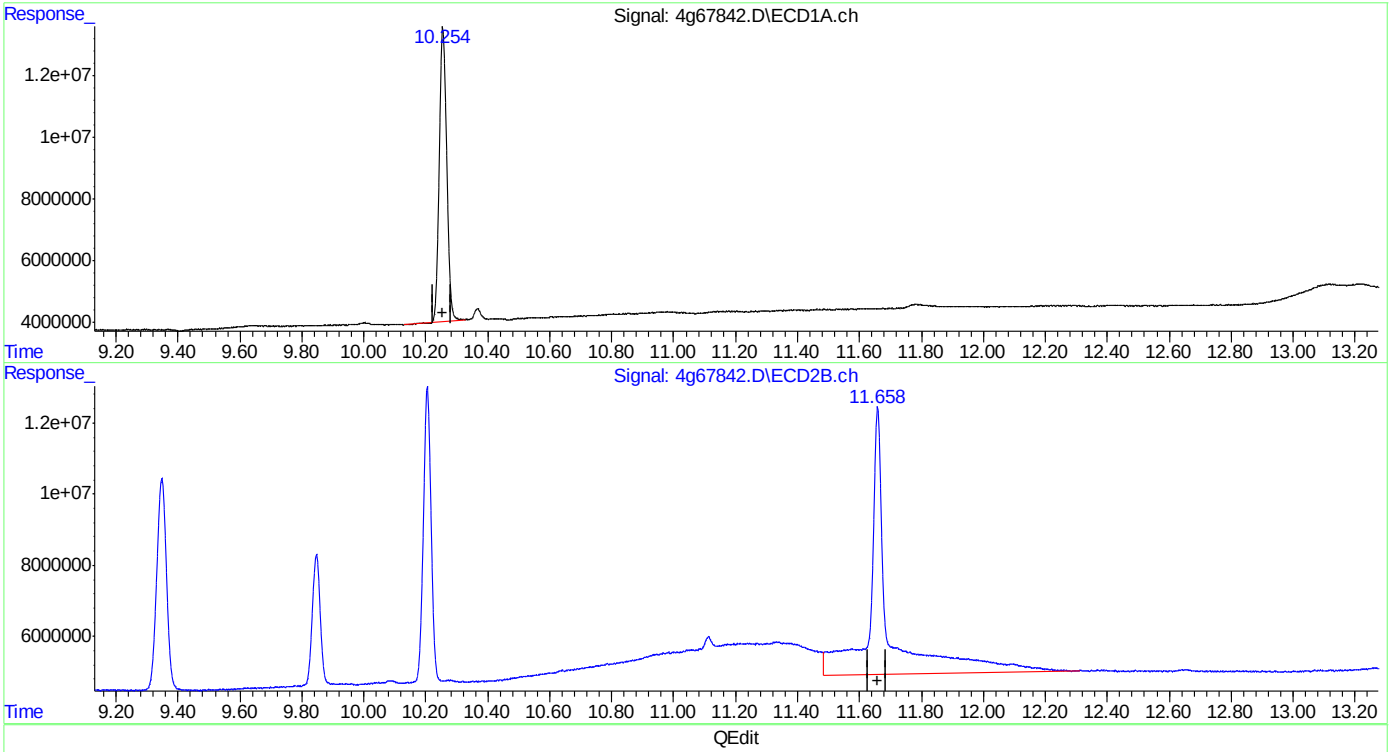
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:44:44 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.255min 21.851 PPB
response 159017875

(24) Decachlorobiphenyl #2 (SA)
11.659min 65.026 PPB
response 321299025

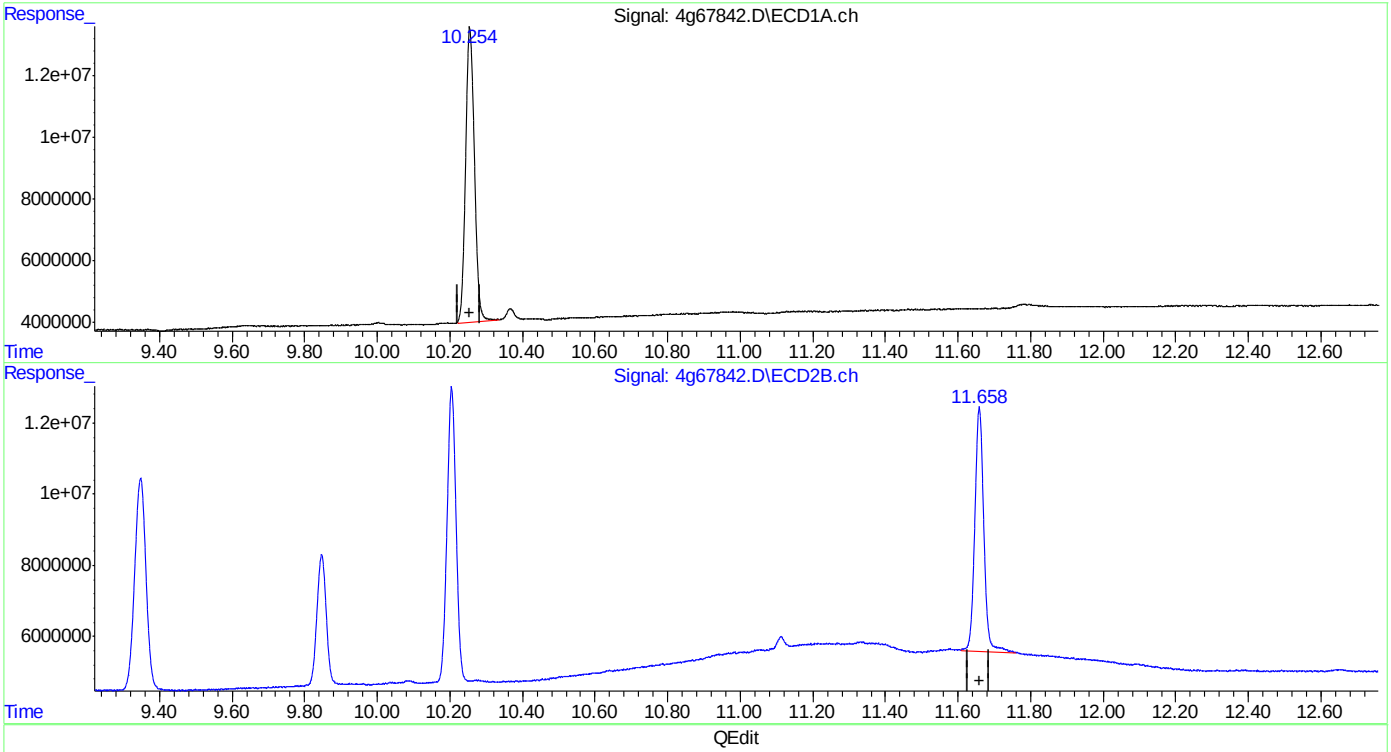
(+) = Expected Retention Time

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.

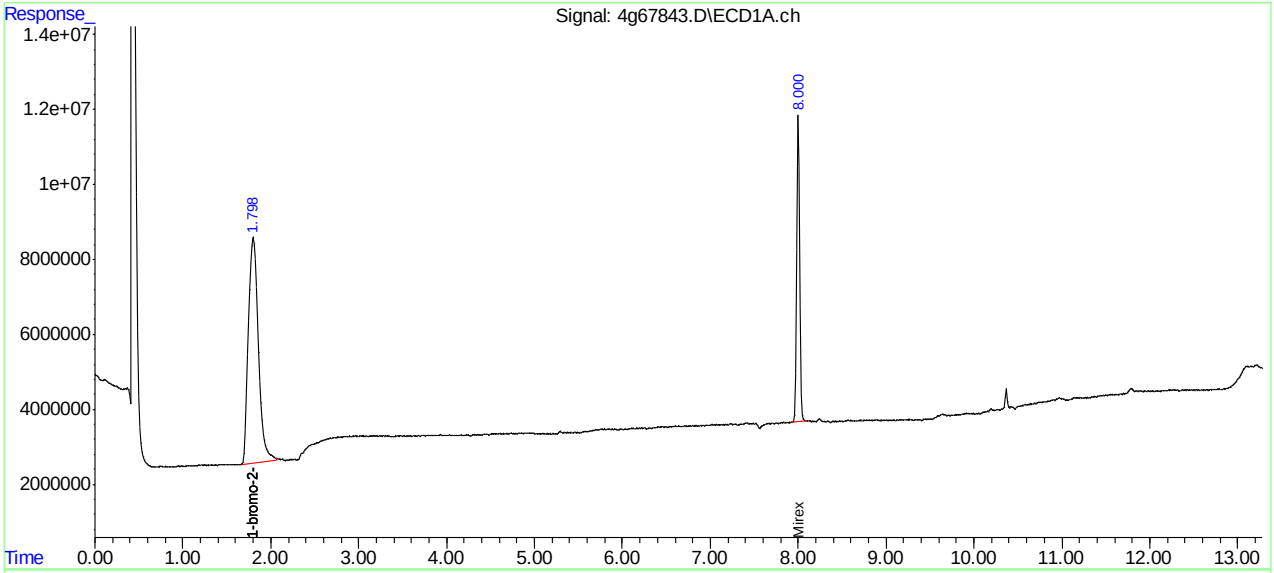
SGS ACCUTEST JC19759

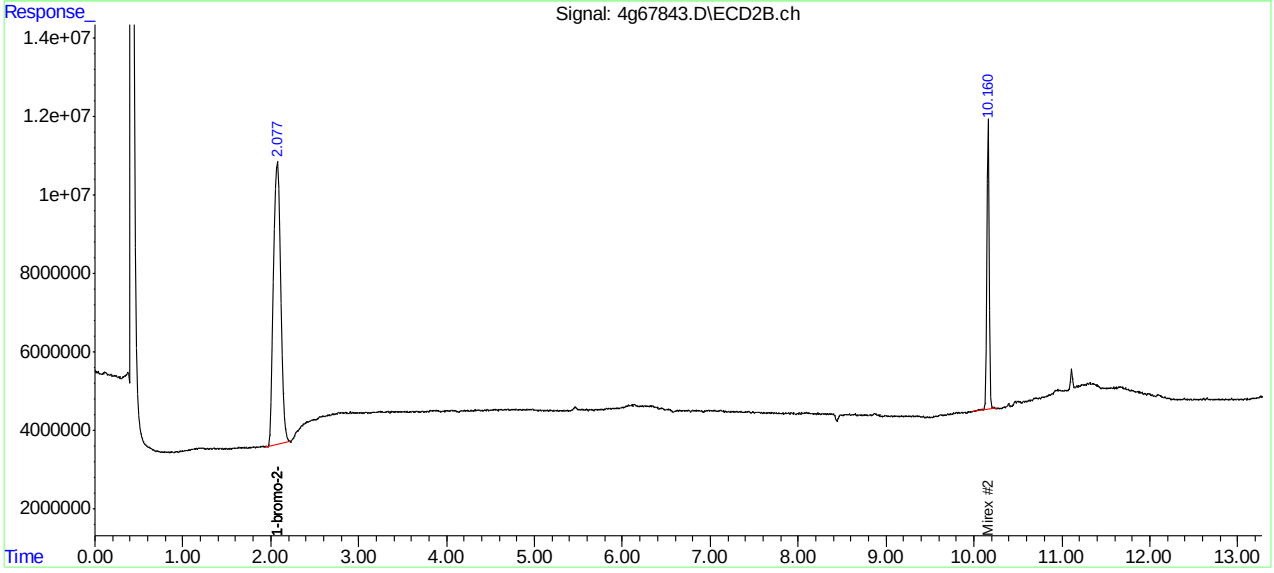
Quantitation Report (QT Reviewed)

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

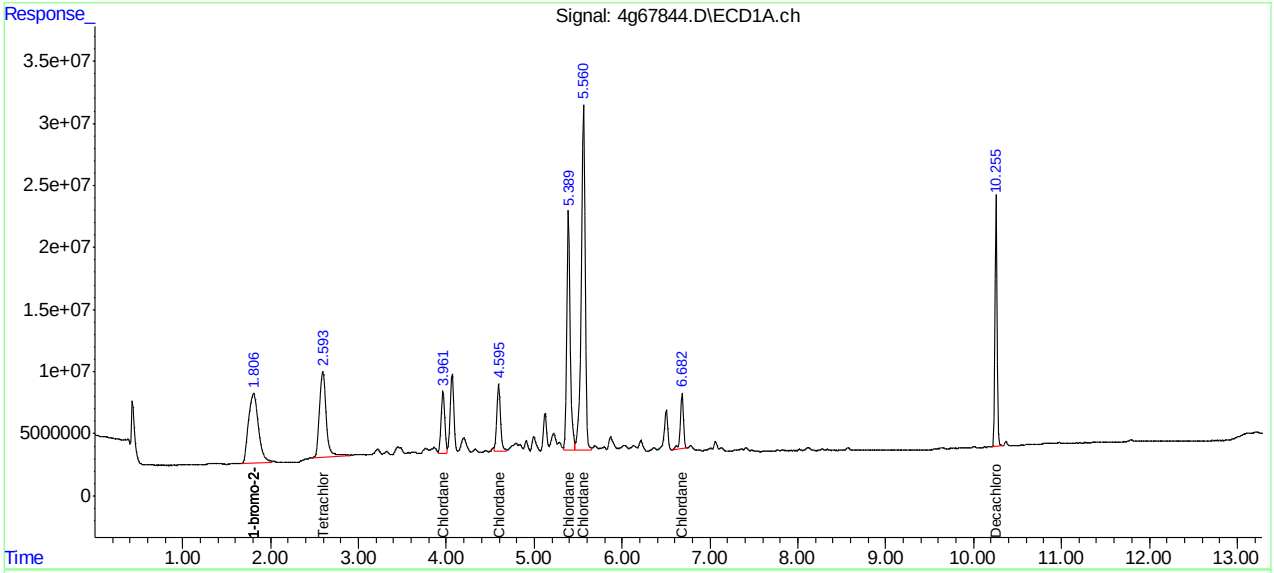
SGS ACCUTEST JC19759

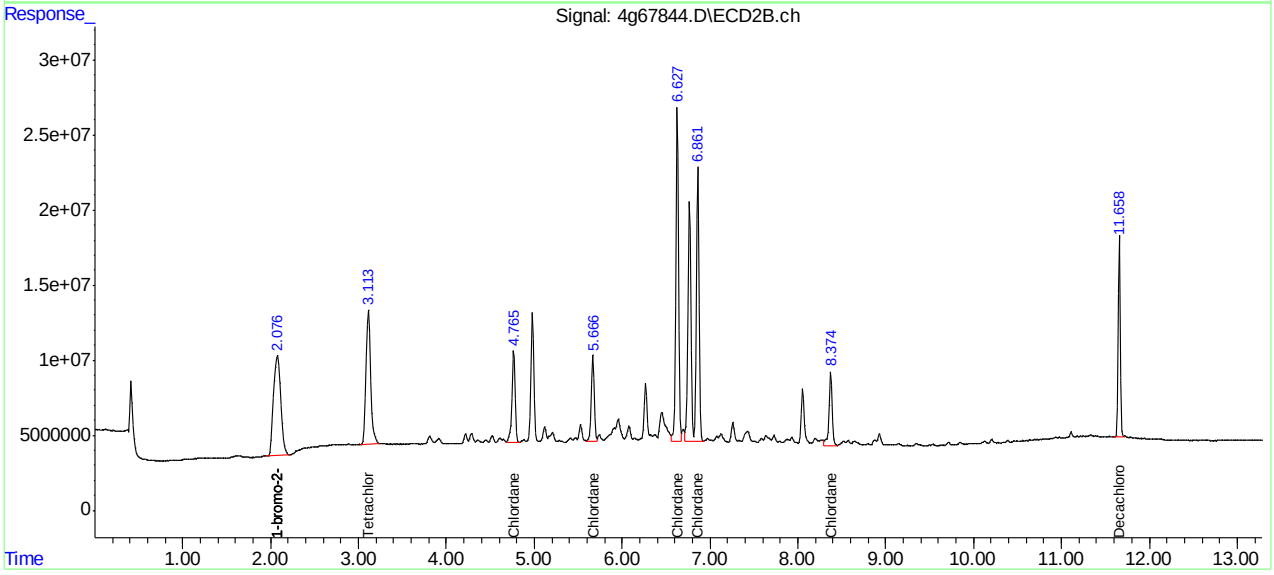
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:49:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-ICV1778	**Method:**	SW846 8081B
Lab FileID:	4G67844.D	**Analyst approved:**	05/03/16 16:01 Joseph Ravino
Injection Time:	05/02/16 17:27	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

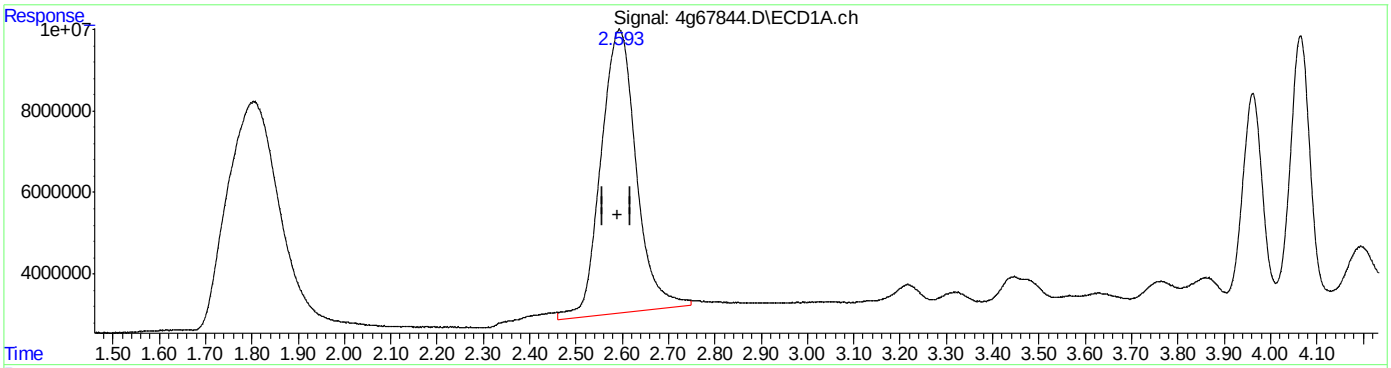
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
Chlordane-D		2	6.86	Split peak
Chlordane-E		2	8.37	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.26	Poor instrument integration

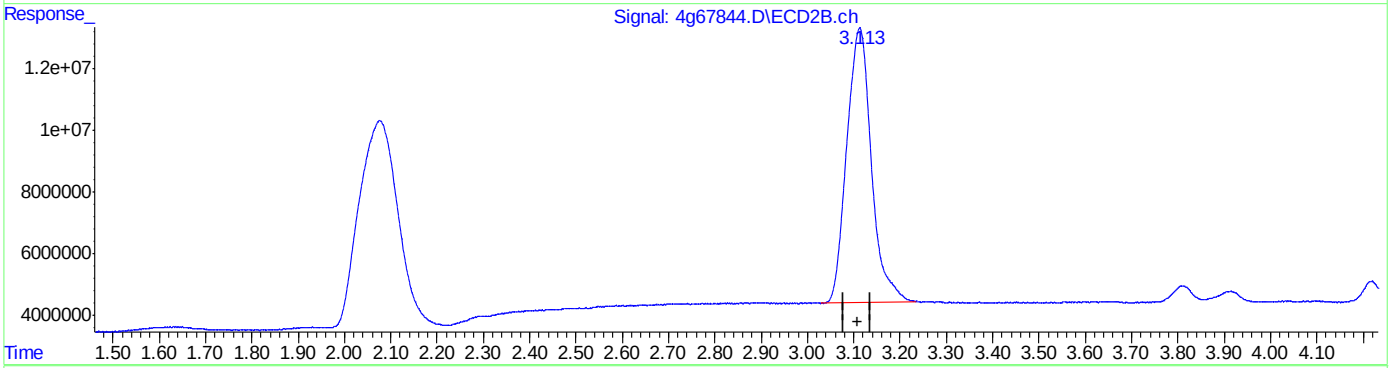
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.594min 48.835 PPB
response 370119696

(2) Tetrachloro-m-xylene #2 (SAB)
3.113min 48.809 PPB
response 329519867

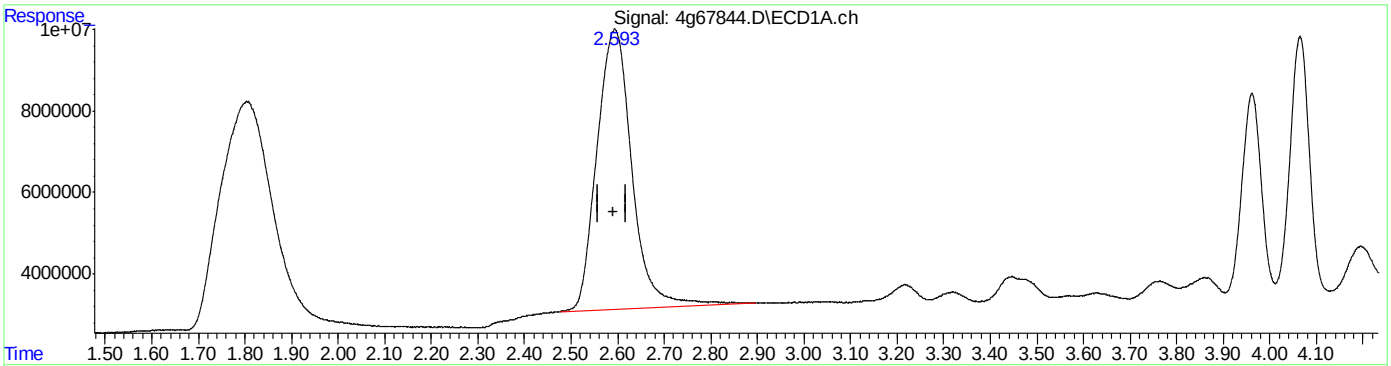
(+) = Expected Retention Time

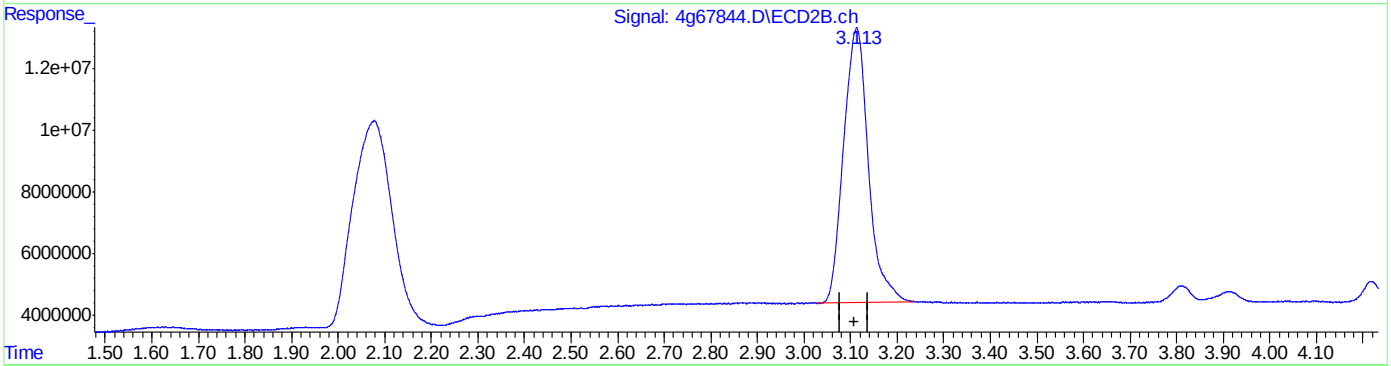
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.593min 47.476 PPB m
response 359820827

(2) Tetrachloro-m-xylene #2 (SAB)
3.113min 48.809 PPB
response 329519867

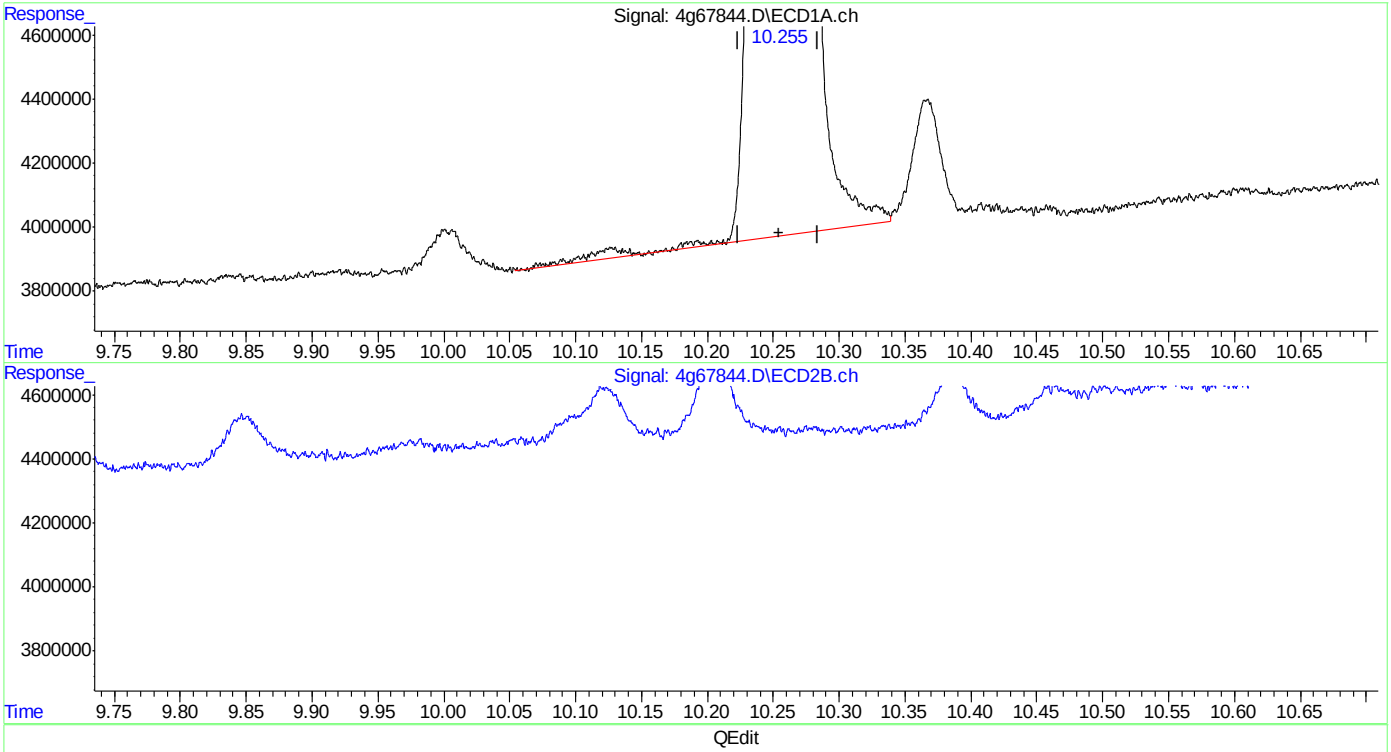
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.256min 46.239 PPB
response 330233091

(24) Decachlorobiphenyl #2 (SA)
11.658min 45.043 PPB
response 215658476

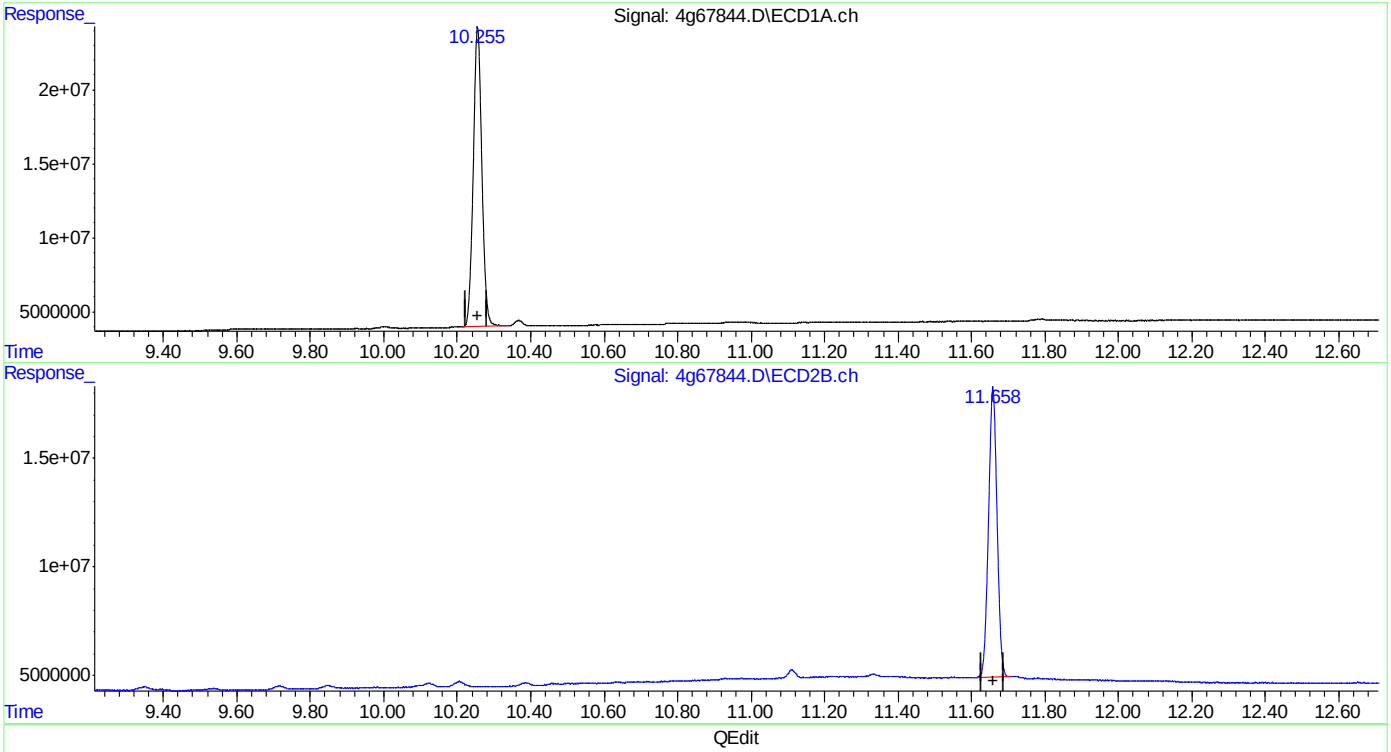
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   5:27 pm
Operator  : dharas
Sample    : icv1778-500
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 15   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(24) Decachlorobiphenyl (SA)

10.255min 46.017 PPB m

response 328647279

(24) Decachlorobiphenyl #2 (SA)

11.658min 45.043 PPB

response 215658476

(+) = Expected Retention Time

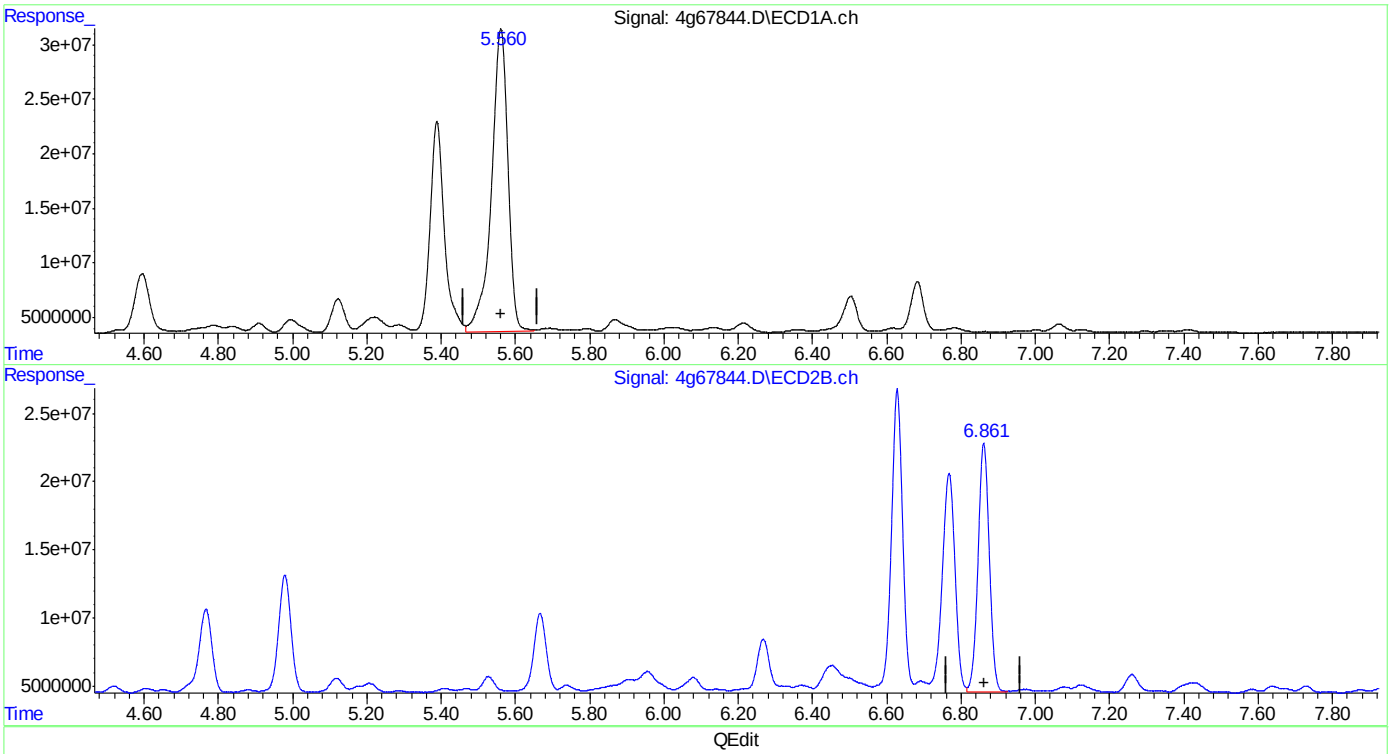
4PST1778.M Tue May 03 15:47:15 2016 RPT1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   5:27 pm
Operator  : dharas
Sample    : icv1778-500
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 15   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(35) Chlordane {D}
5.561min 491.023 PPB
response 857819158

(35) Chlordane {D} #2
6.861min 241.391 PPB
response 384618387

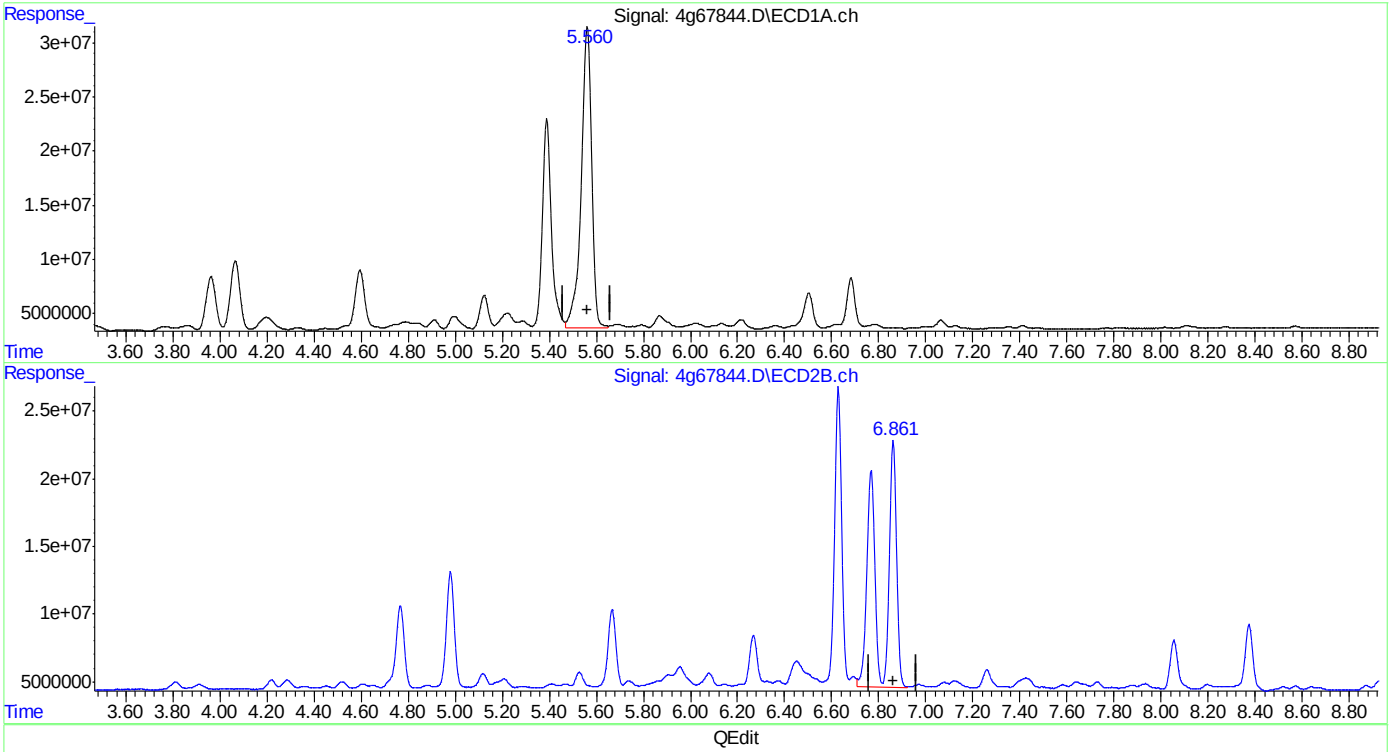
(+) = Expected Retention Time

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 483.494 PPB m
response 770372391

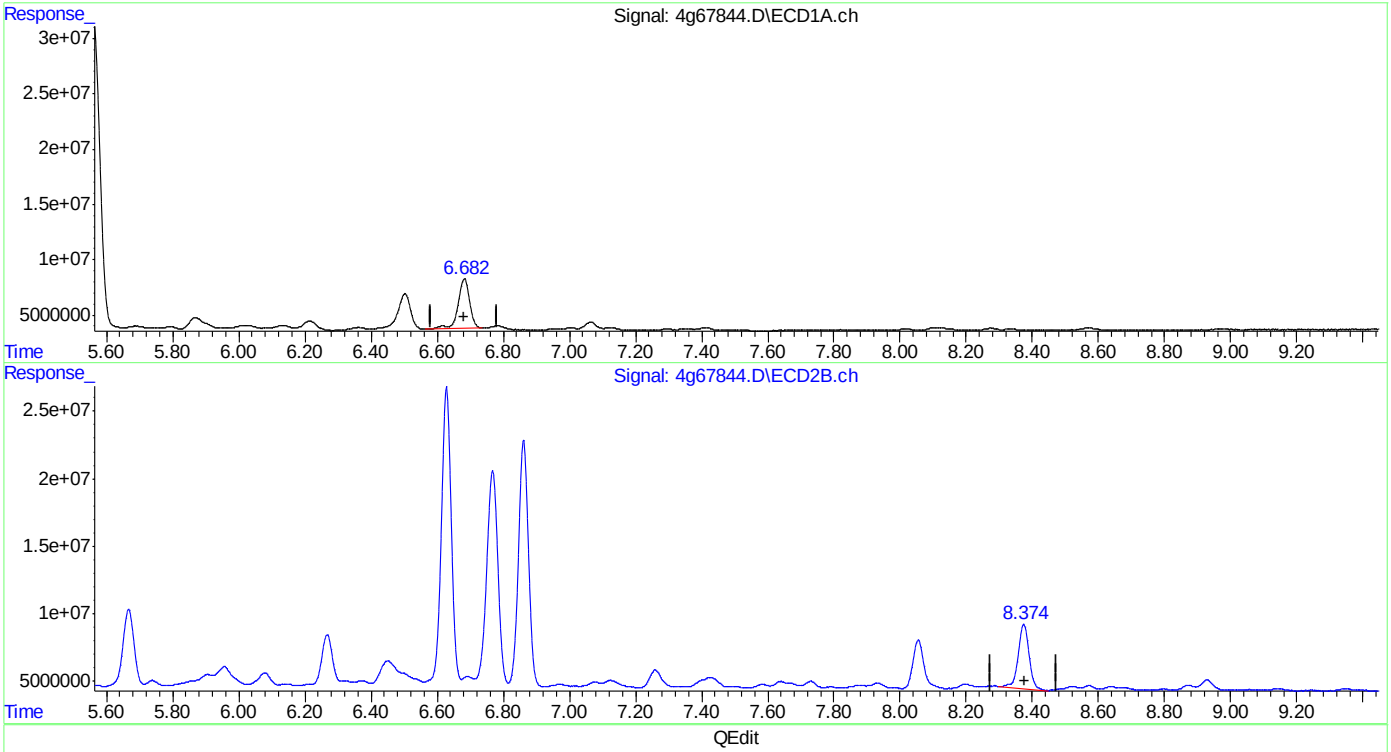
(+) = Expected Retention Time

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



(36) Chlordane {E}
6.682min 417.425 PPB
response 110145191

(36) Chlordane {E} #2
8.374min 424.264 PPB
response 108125507

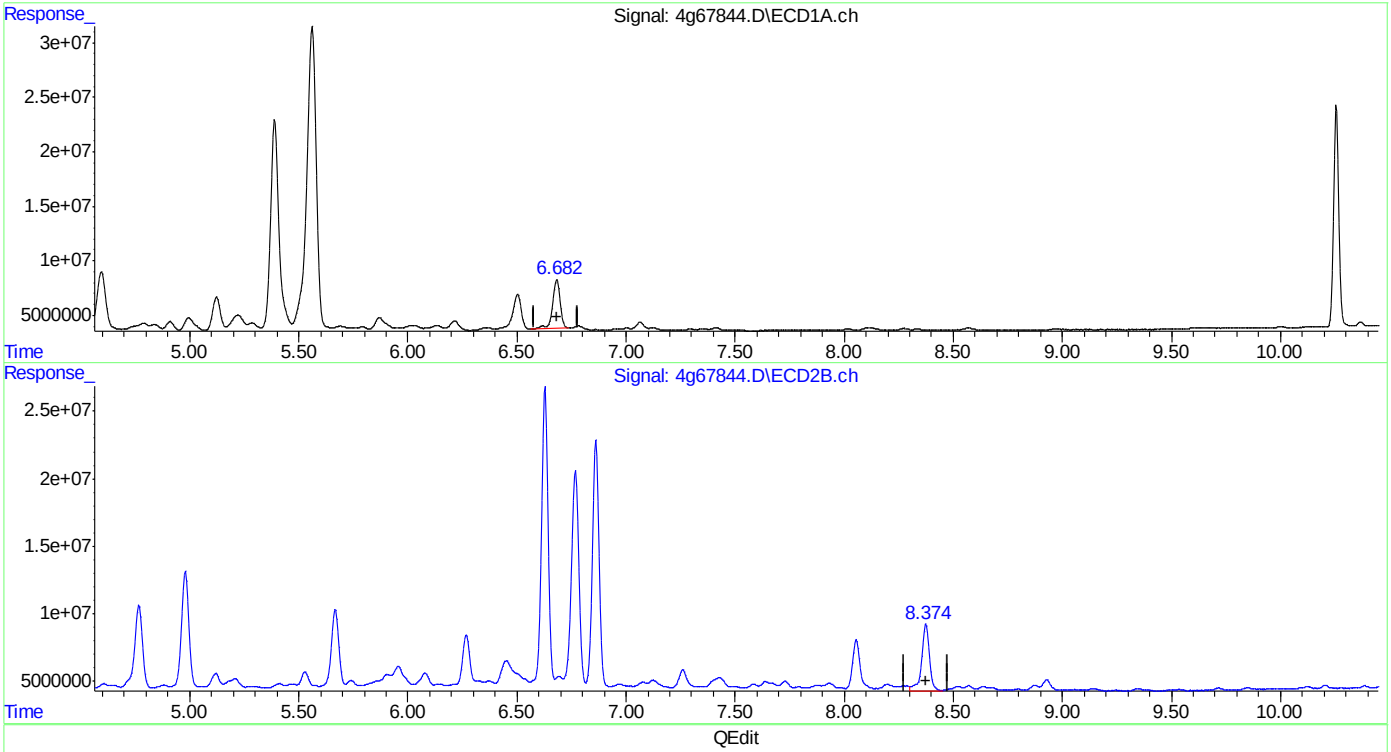
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:49:13 2016 RPT1

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

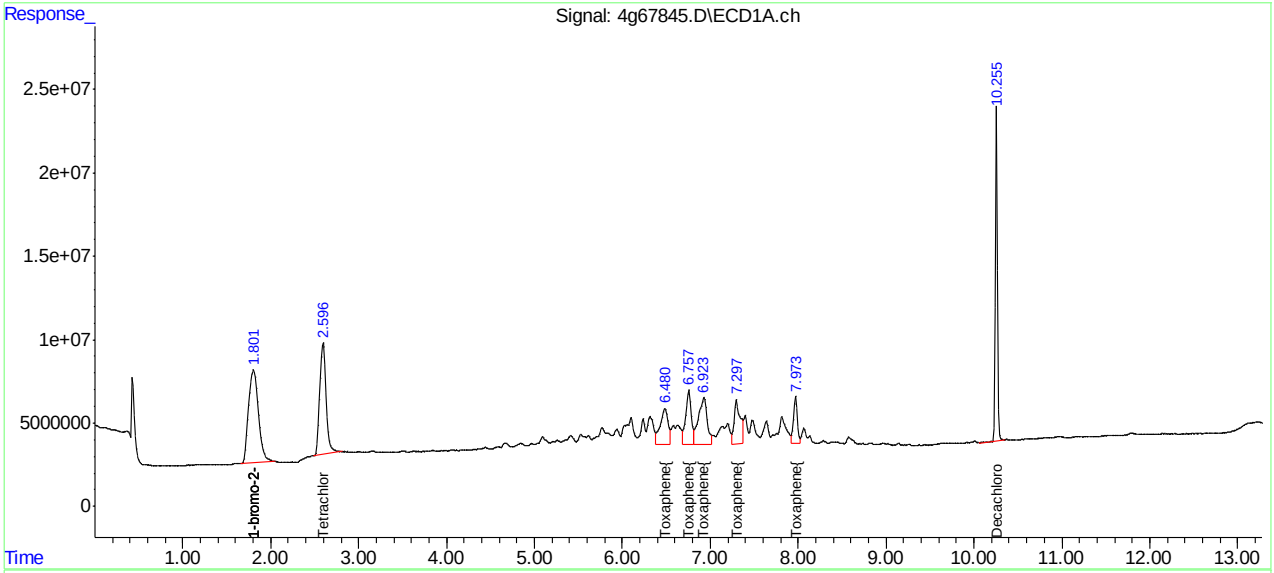
9

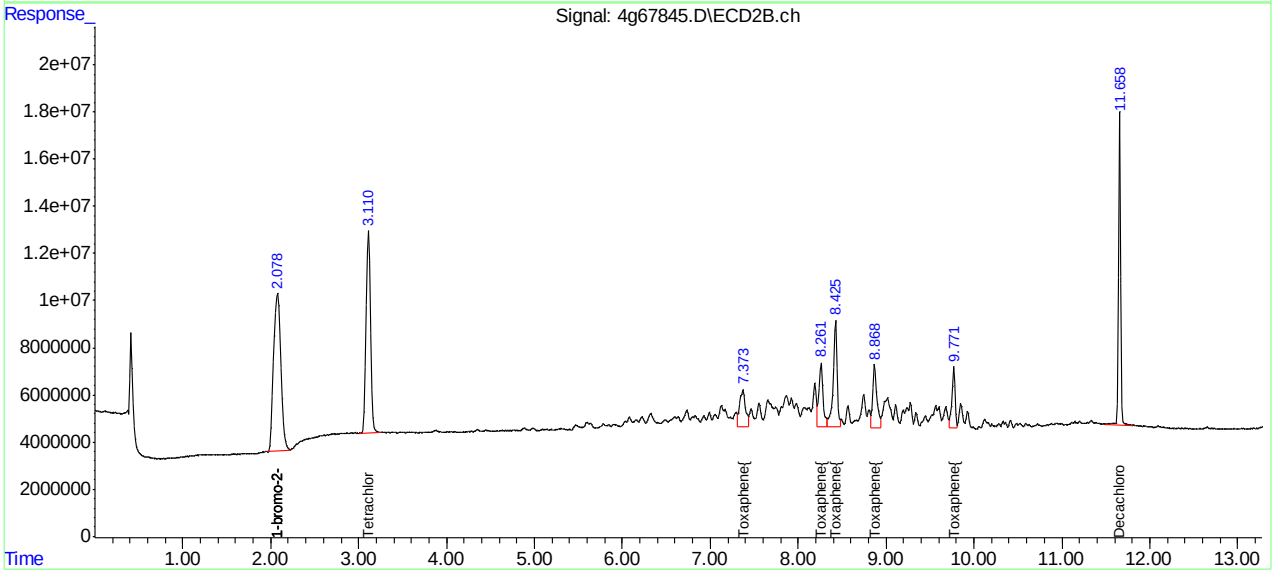
Quantitation Report (QT Reviewed)

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

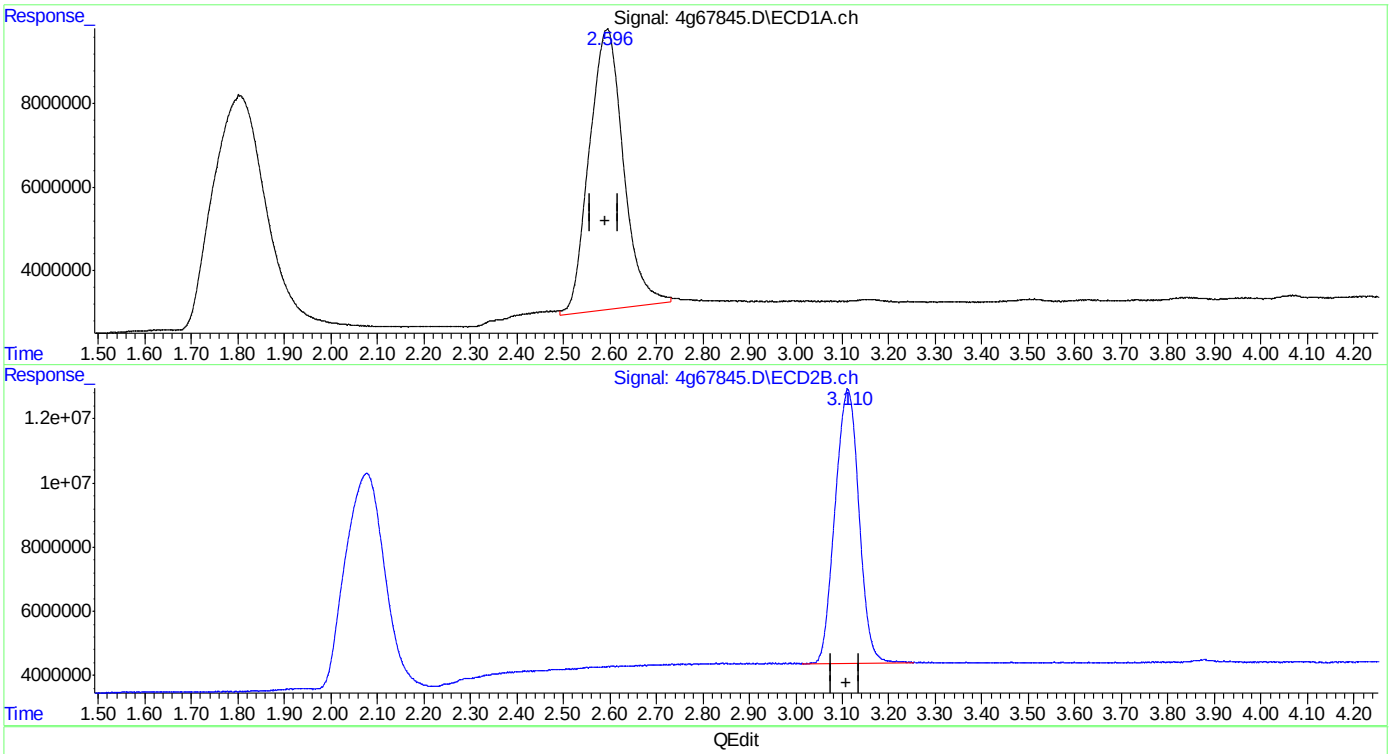
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.60	Poor instrument integration
Toxaphene-D		1	7.30	Split peak

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

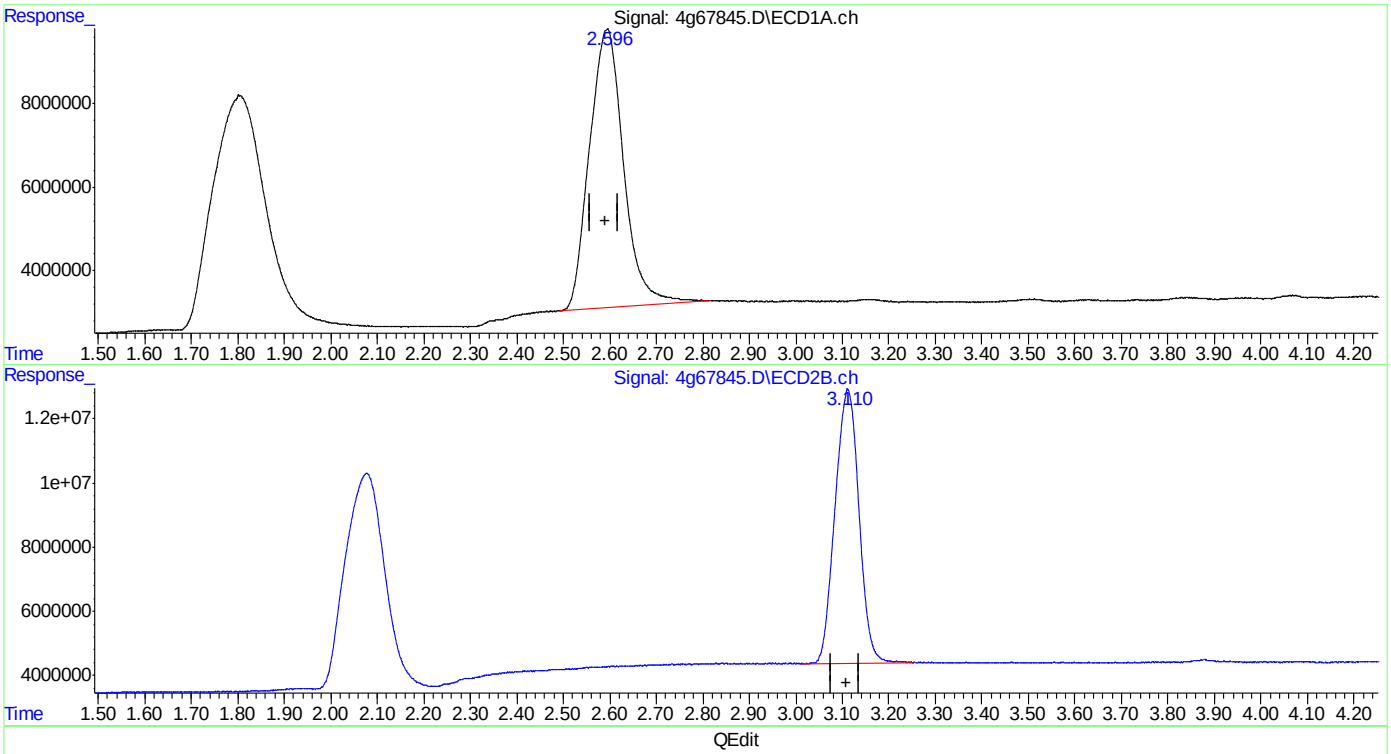
4PST1778.M Tue May 03 15:51:20 2016 RPT1

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

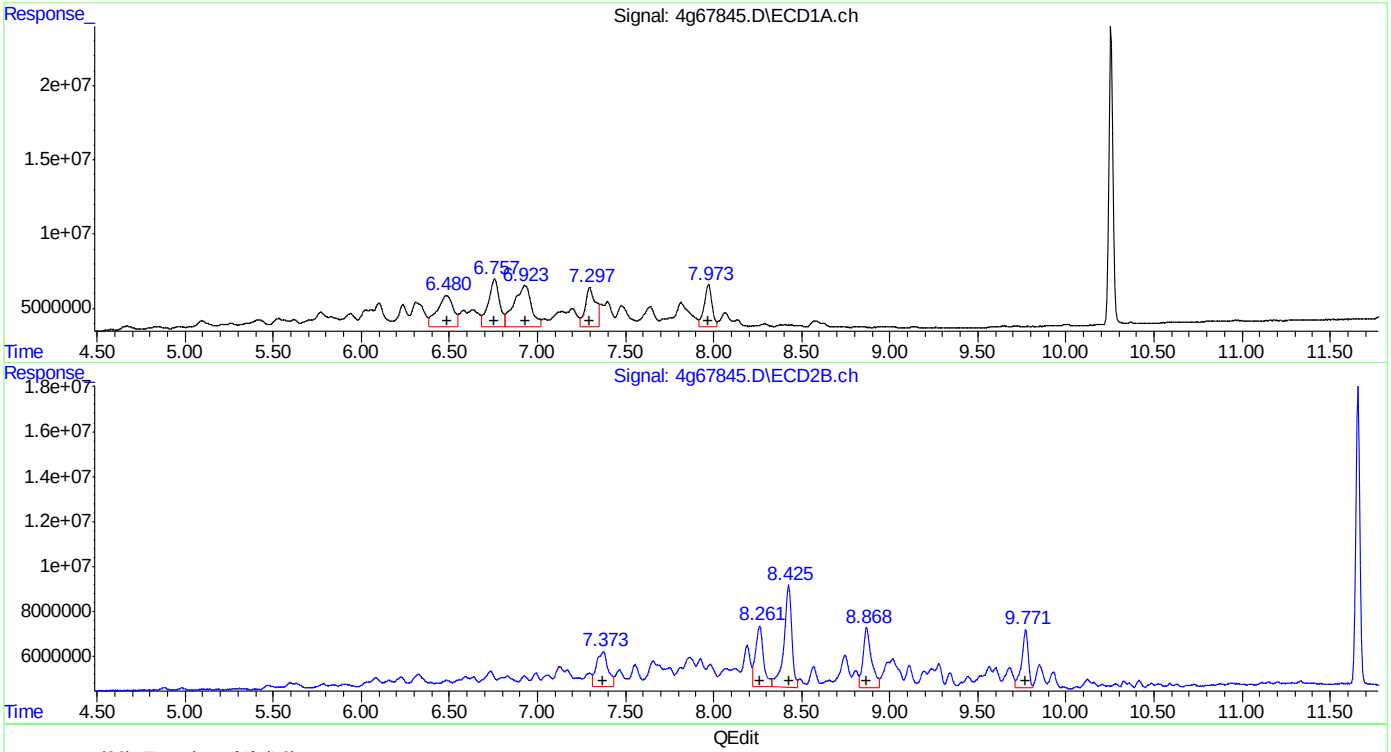
4PST1778.M Tue May 03 15:51:26 2016 RPT1

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

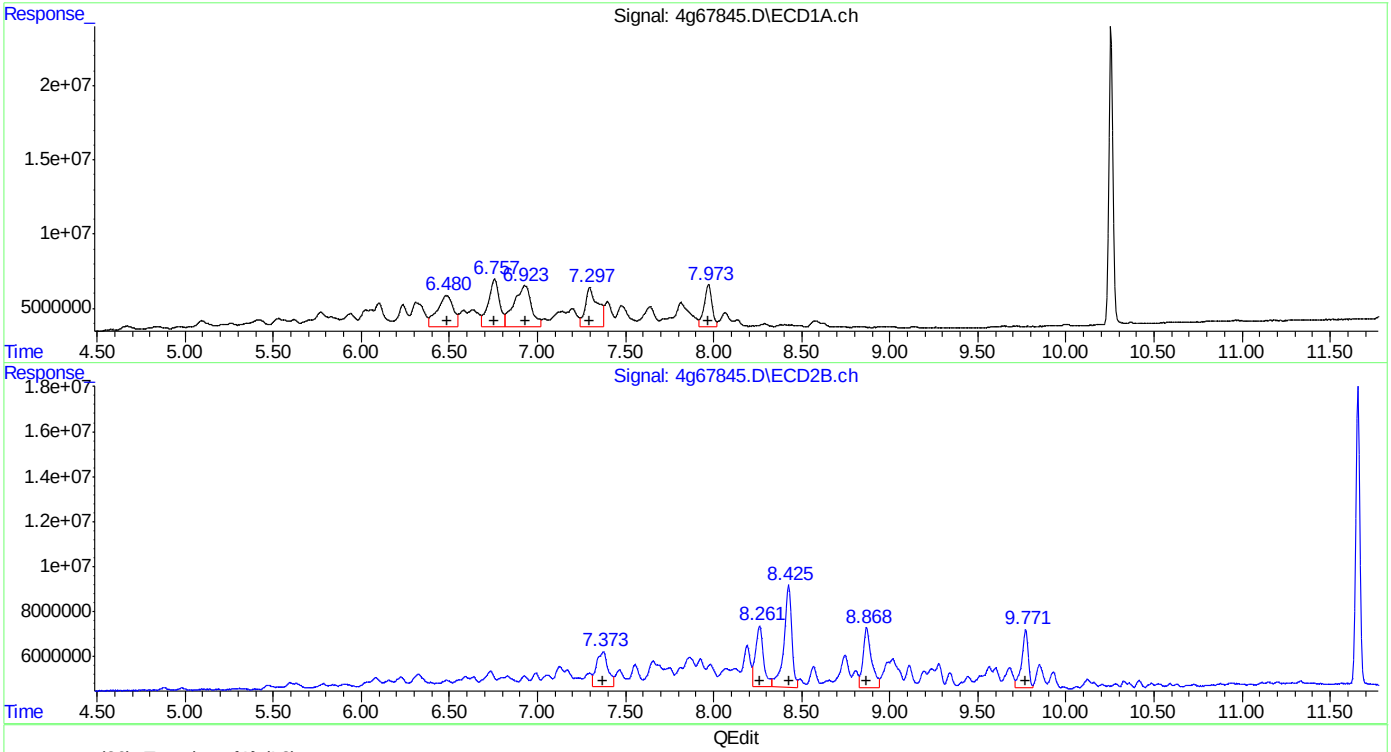
(+) = Expected Retention Time

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

SGS ACCUTEST JC19759

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.

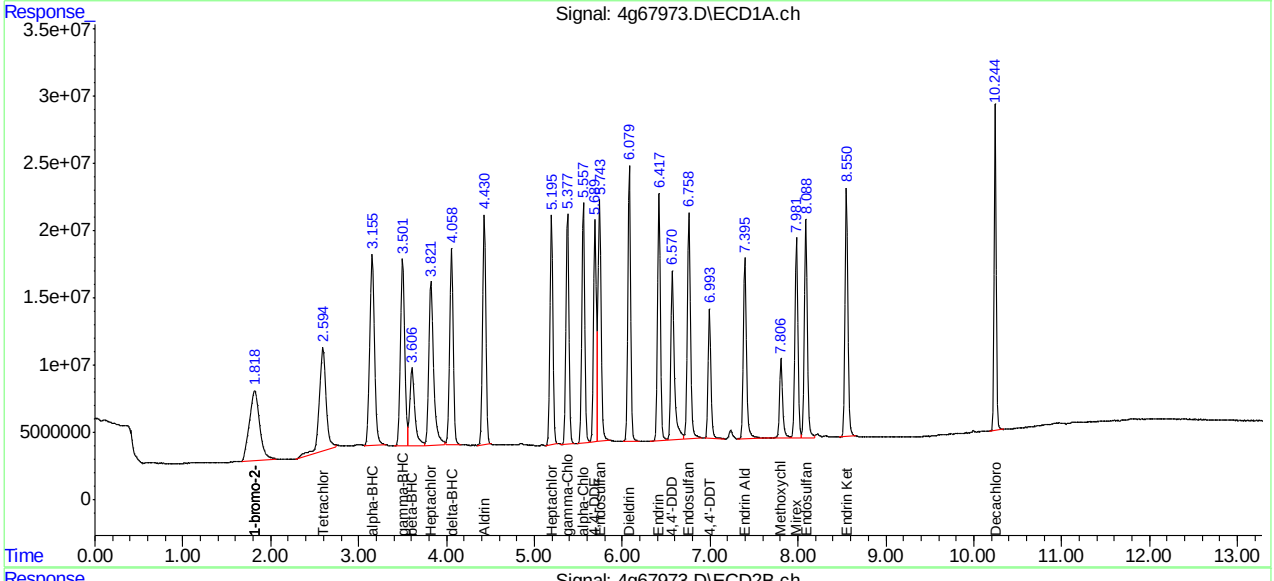
SGS ACCUTEST JC19759

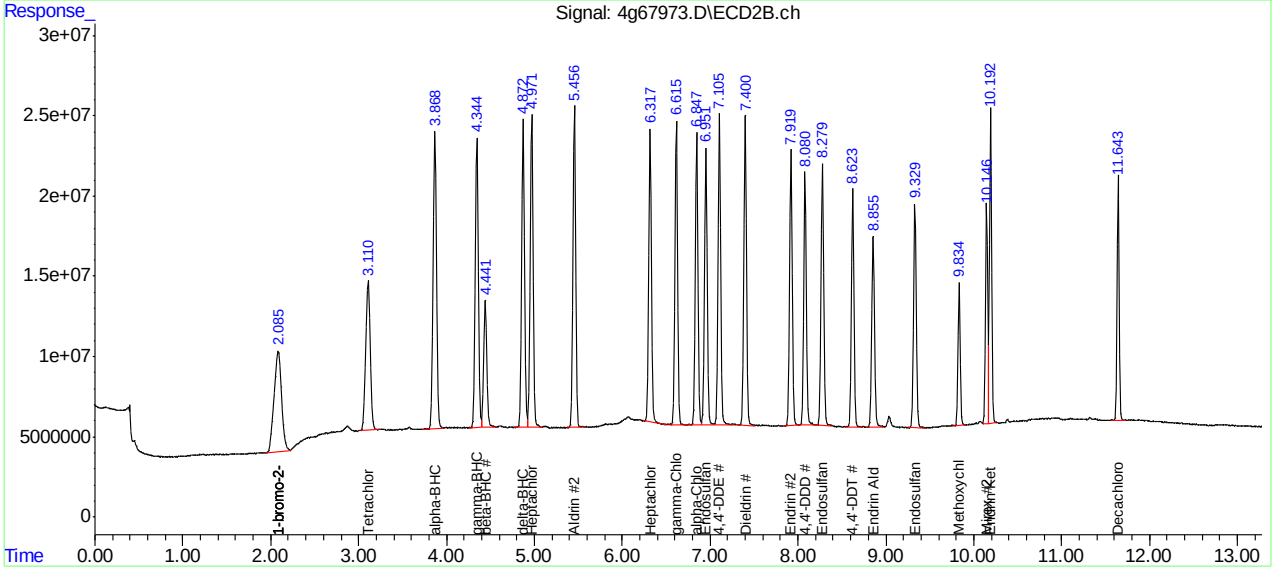
Quantitation Report (QT Reviewed)

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.

9.6.16

9

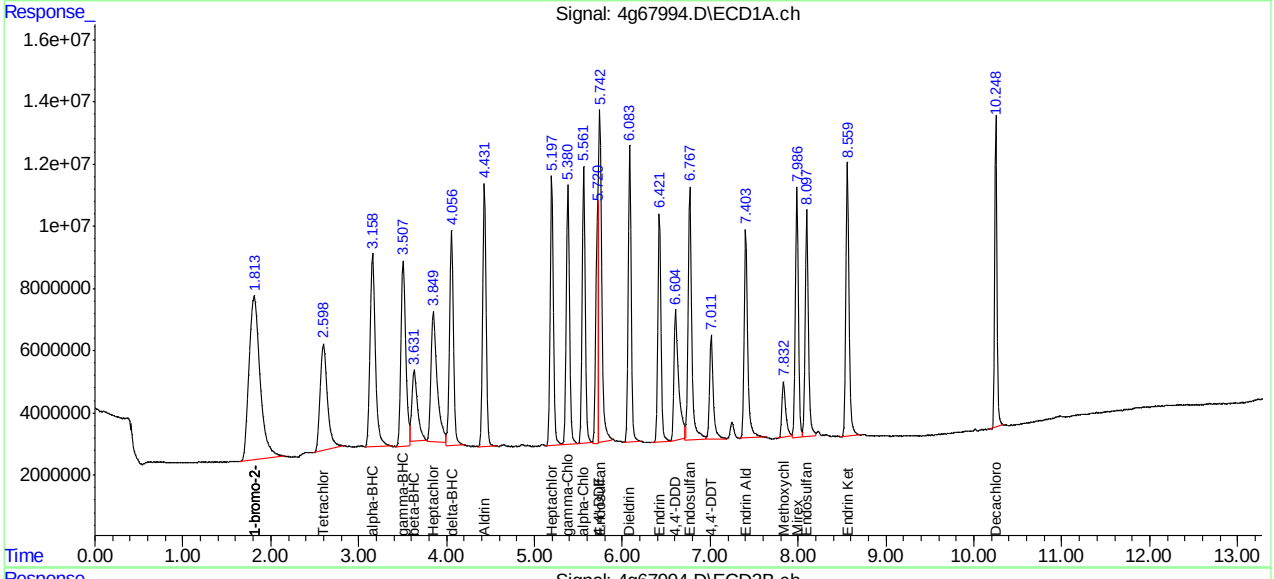
SGS ACCUTEST JC19759

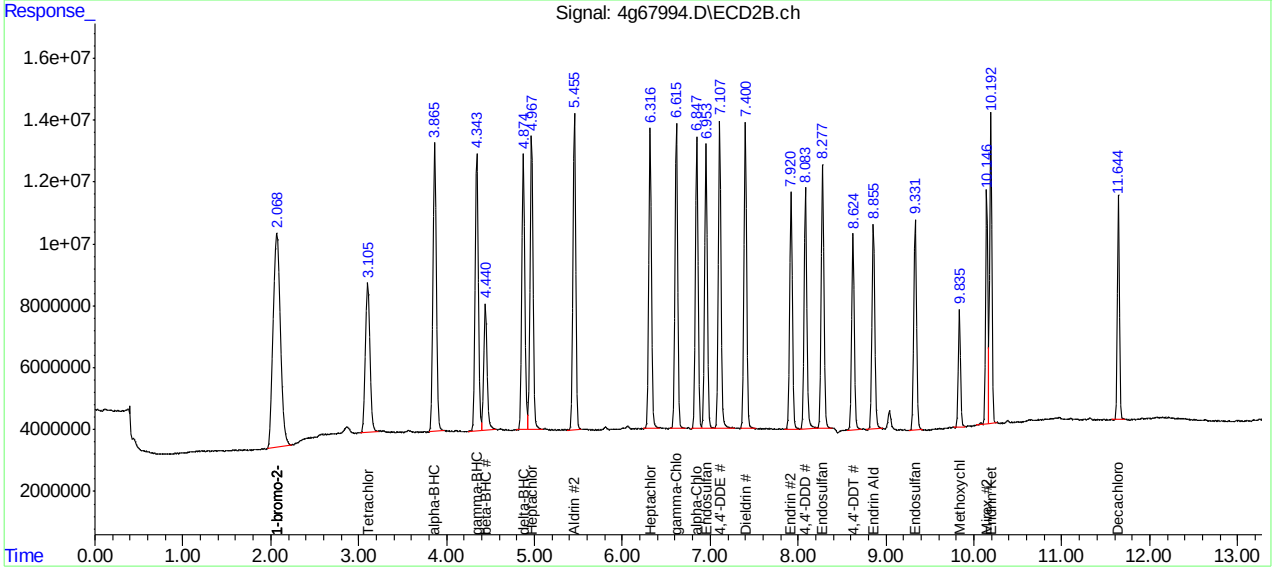
Quantitation Report (QT Reviewed)

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





SGS ACCUTEST JC19759

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

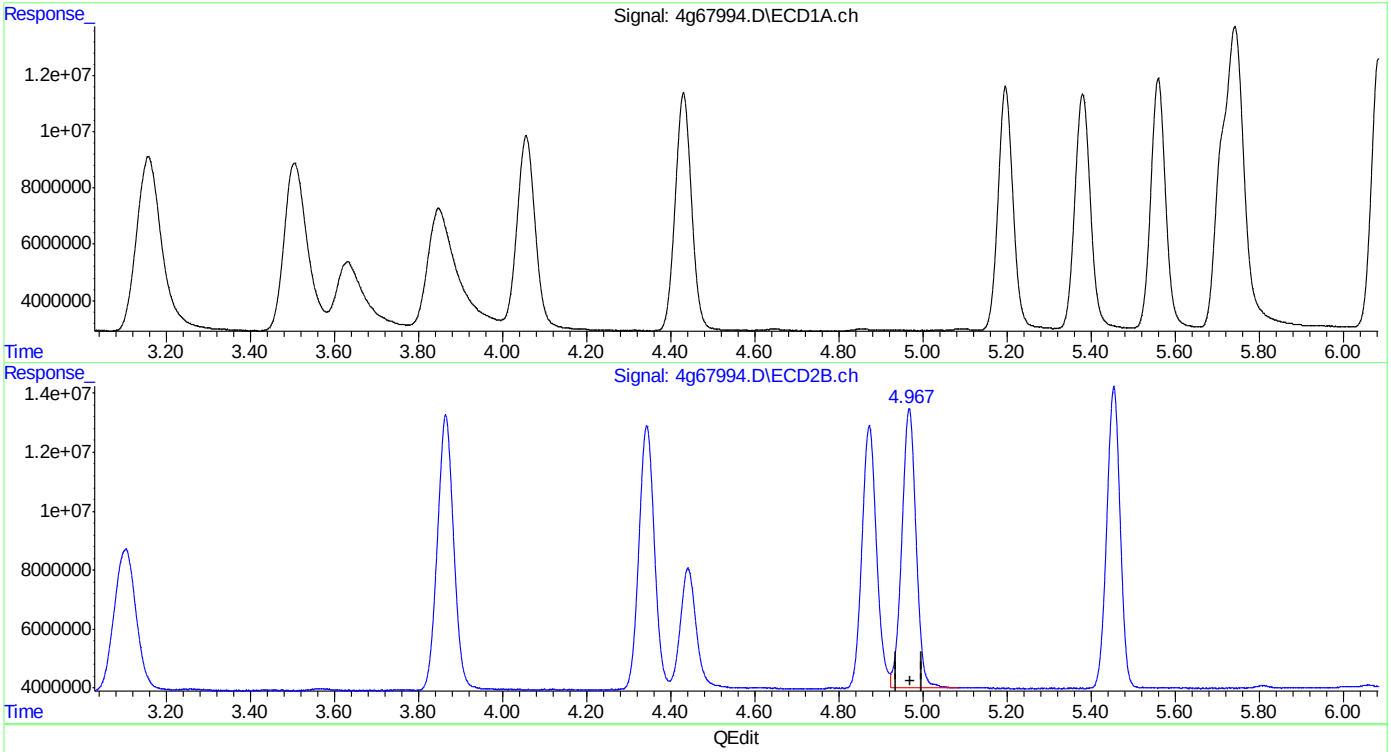
Parameter	CAS	Sig#	R.T. (min.)	Reason
beta-BHC	319-85-7	1	3.63	Poor instrument integration
Heptachlor	76-44-8	1	3.85	Poor instrument integration
4,4'-DDE	72-55-9	1	5.72	Poor instrument integration
Endosulfan-I	959-98-8	1	5.74	Poor instrument integration
4,4'-DDD	72-54-8	1	6.60	Poor instrument integration
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

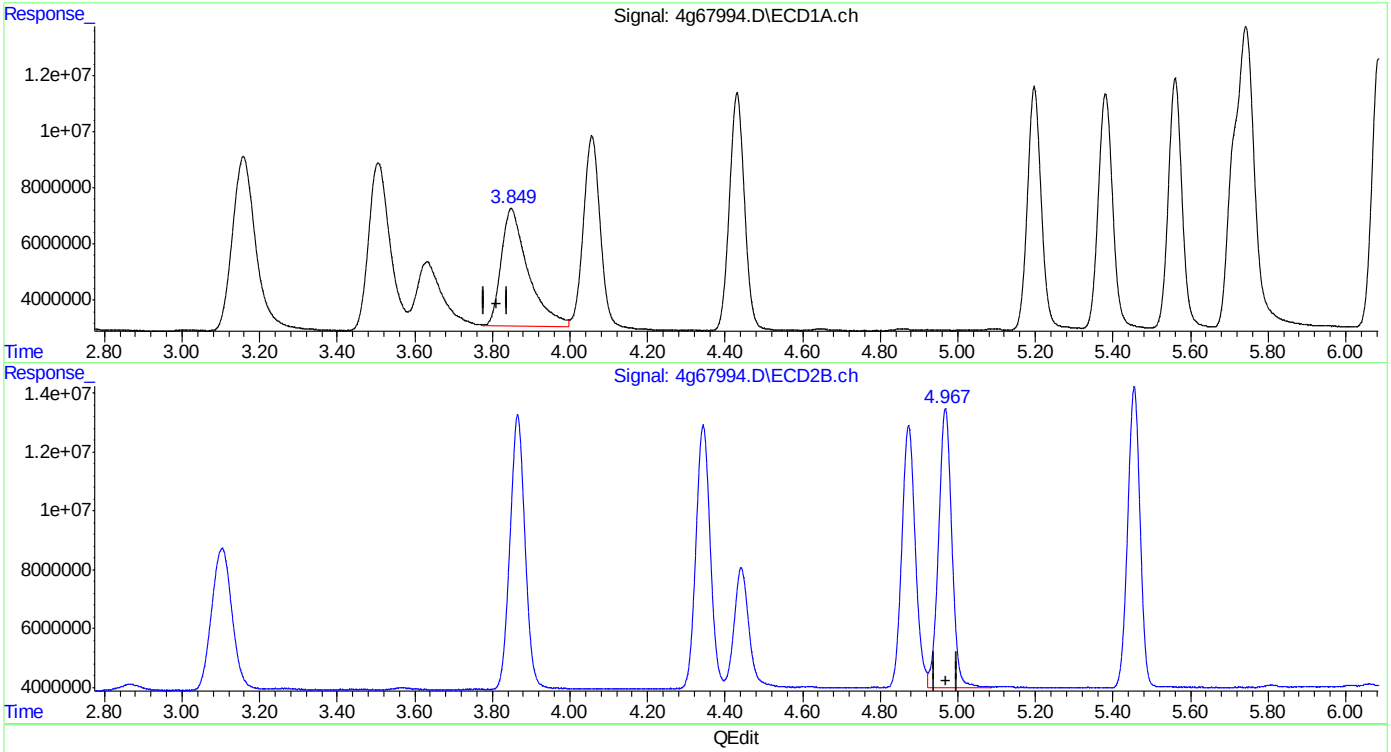
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(5) Heptachlor (MA)
3.849min 22.835 PPB m
response 202734368

(5) Heptachlor #2 (MA)
4.969min 23.702 PPB
response 224030055

(+) = Expected Retention Time

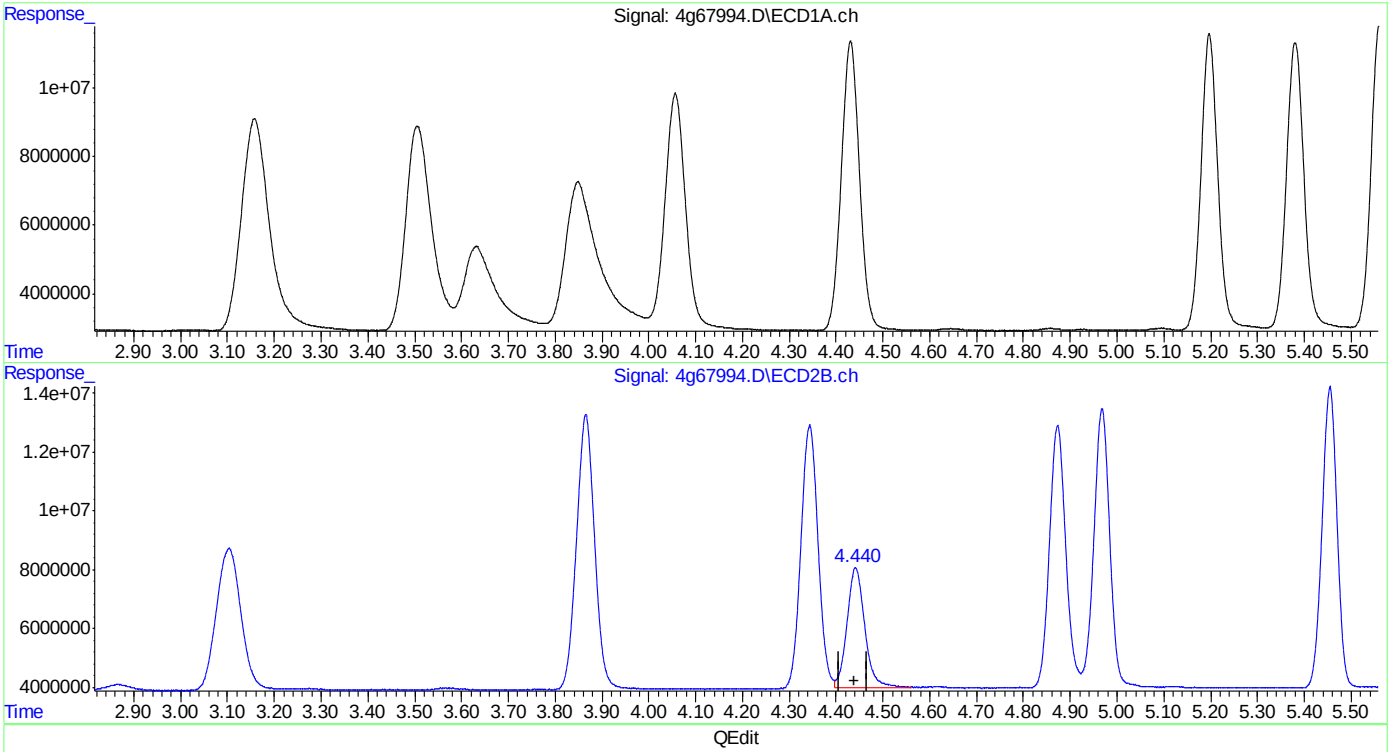
SGS ACCUTEST JC19759

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

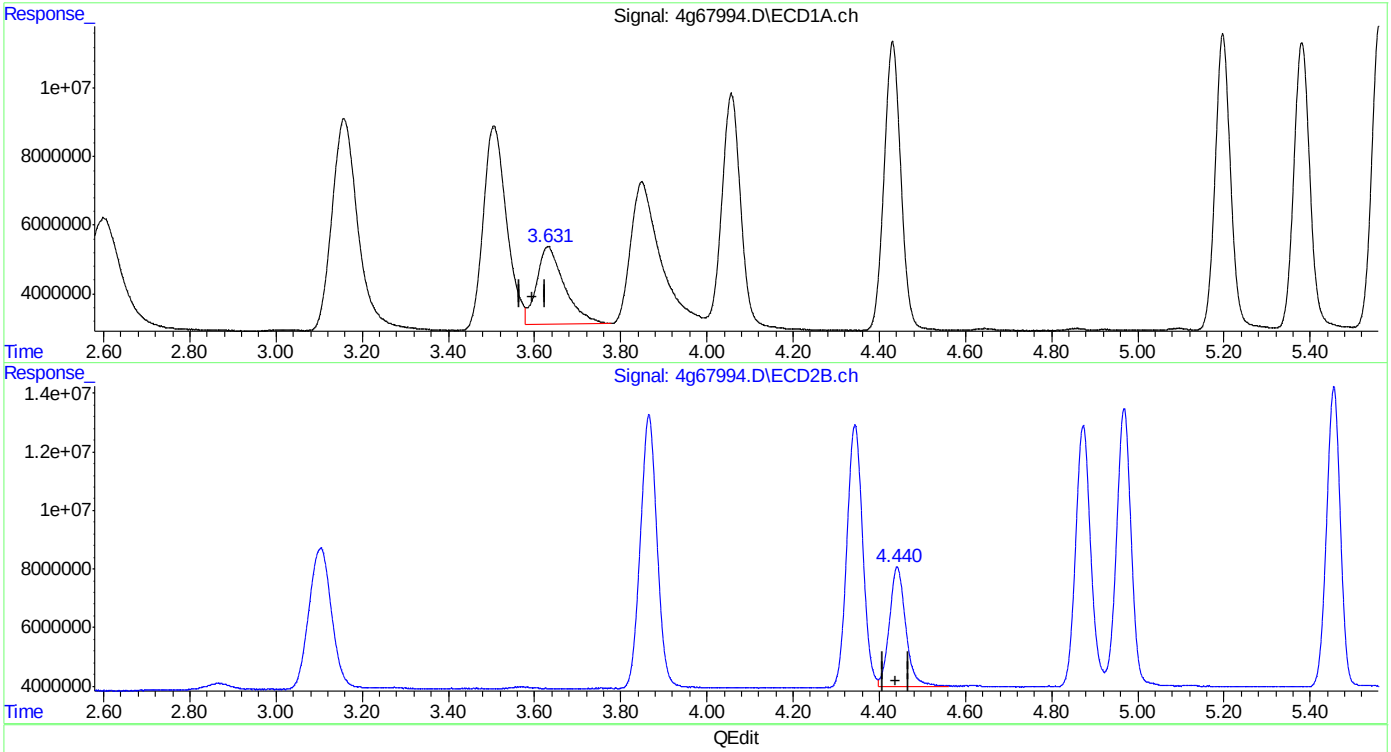
(+) = Expected Retention Time

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

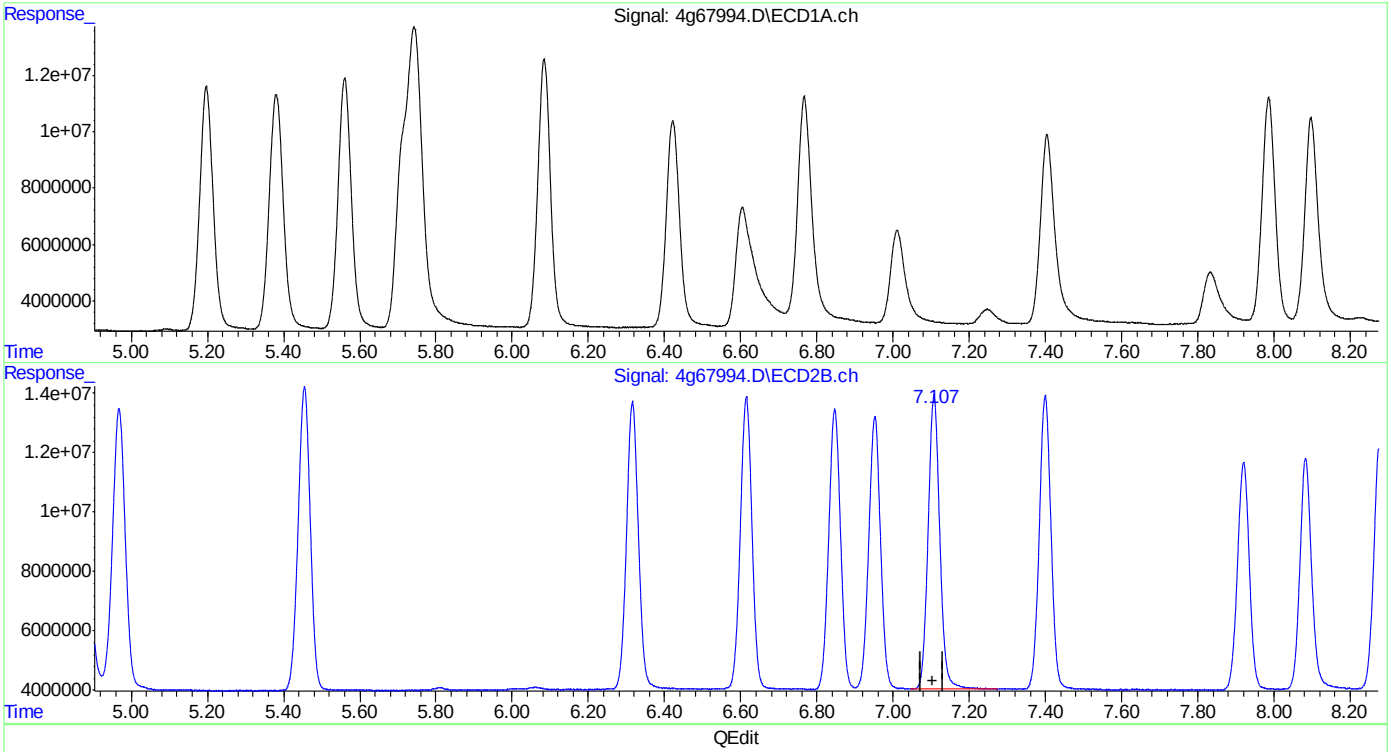
SGS ACCUTEST JC19759

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

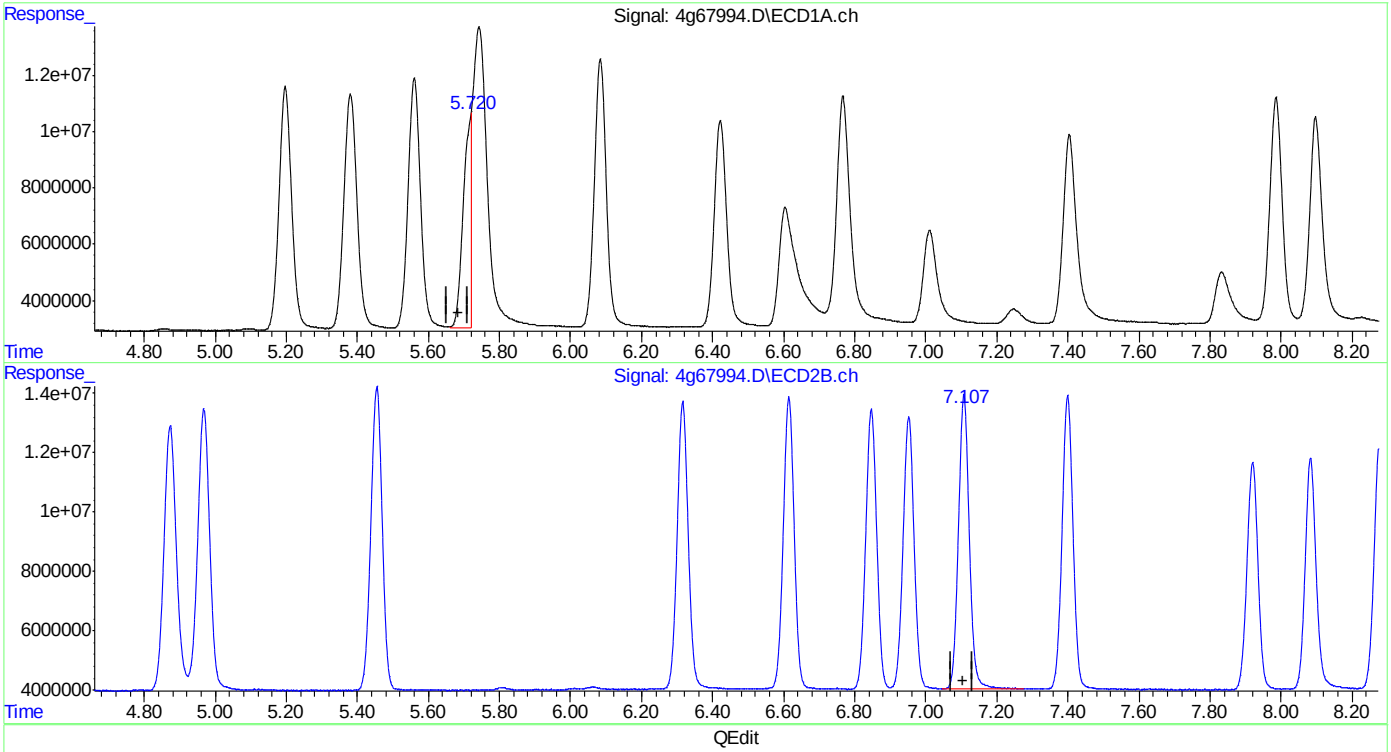
SGS ACCUTEST JC19759

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(13) 4,4'-DDE (B)
5.720min 13.783 PPB m
response 111521699

(13) 4,4'-DDE #2 (B)
7.107min 25.914 PPB
response 210921696

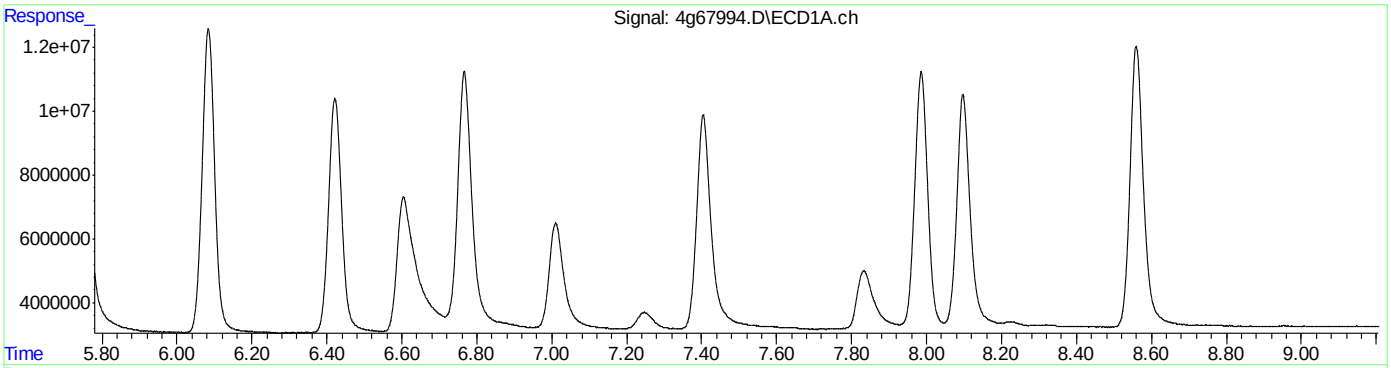
(+) = Expected Retention Time

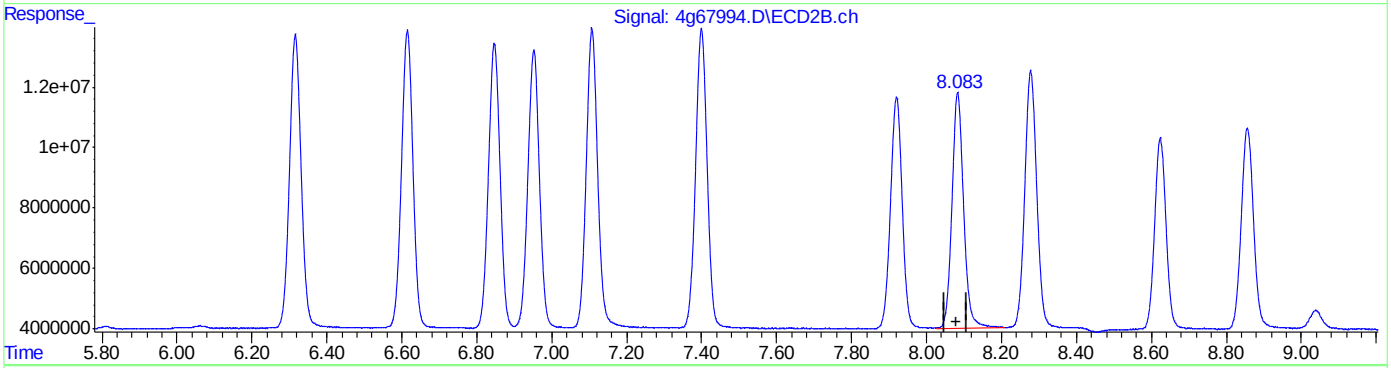
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
0.000min 0.000 PPB
response 0

(16) 4,4'-DDD #2 (A)
8.083min 25.513 PPB
response 167784874

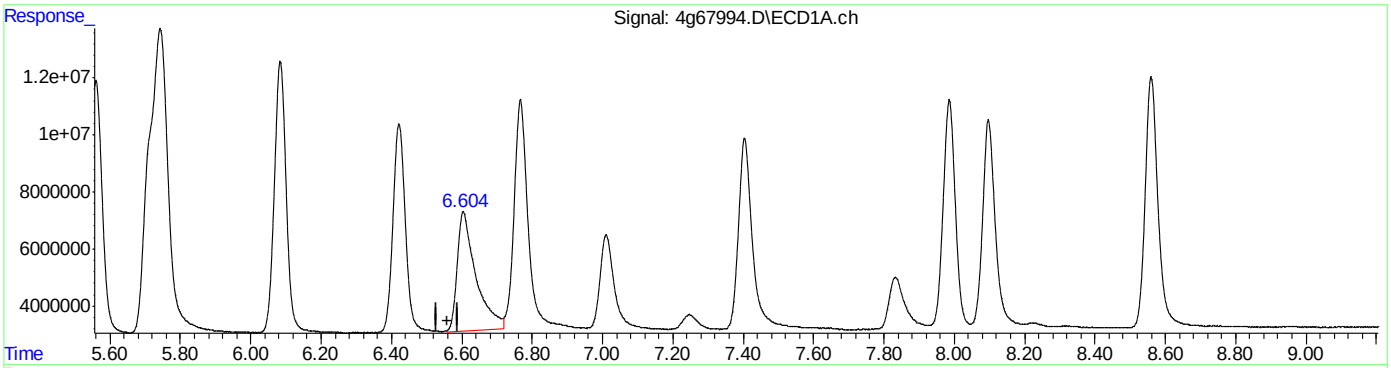
(+) = Expected Retention Time

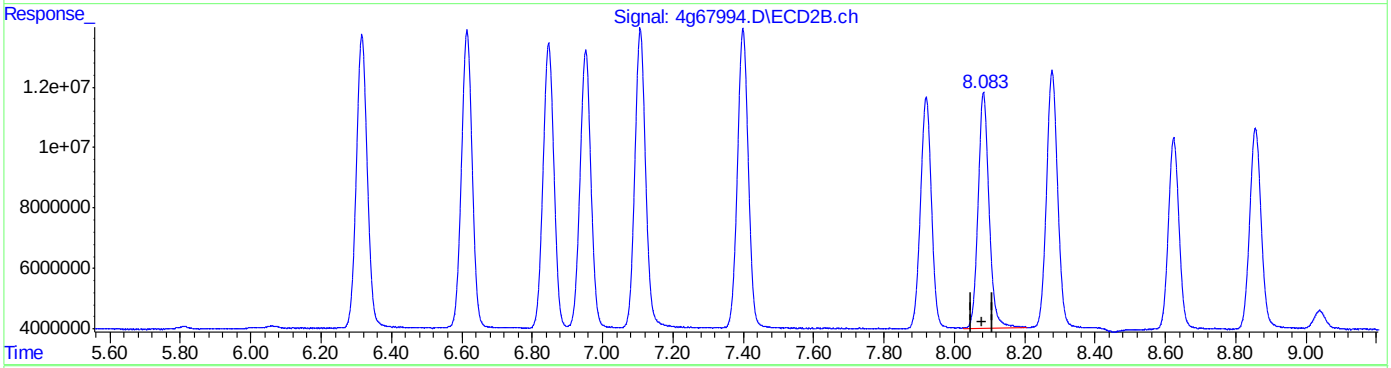
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1782\
Data File : 4g67994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2016 8:15 pm
Operator : dharas
Sample : cc1778-25
Misc : op93657,g4g1782,100,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 14:30:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 06 15:02:24 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
6.604min 22.404 PPB m
response 153600472

(16) 4,4'-DDD #2 (A)
8.083min 25.513 PPB
response 167784874

(+) = Expected Retention Time

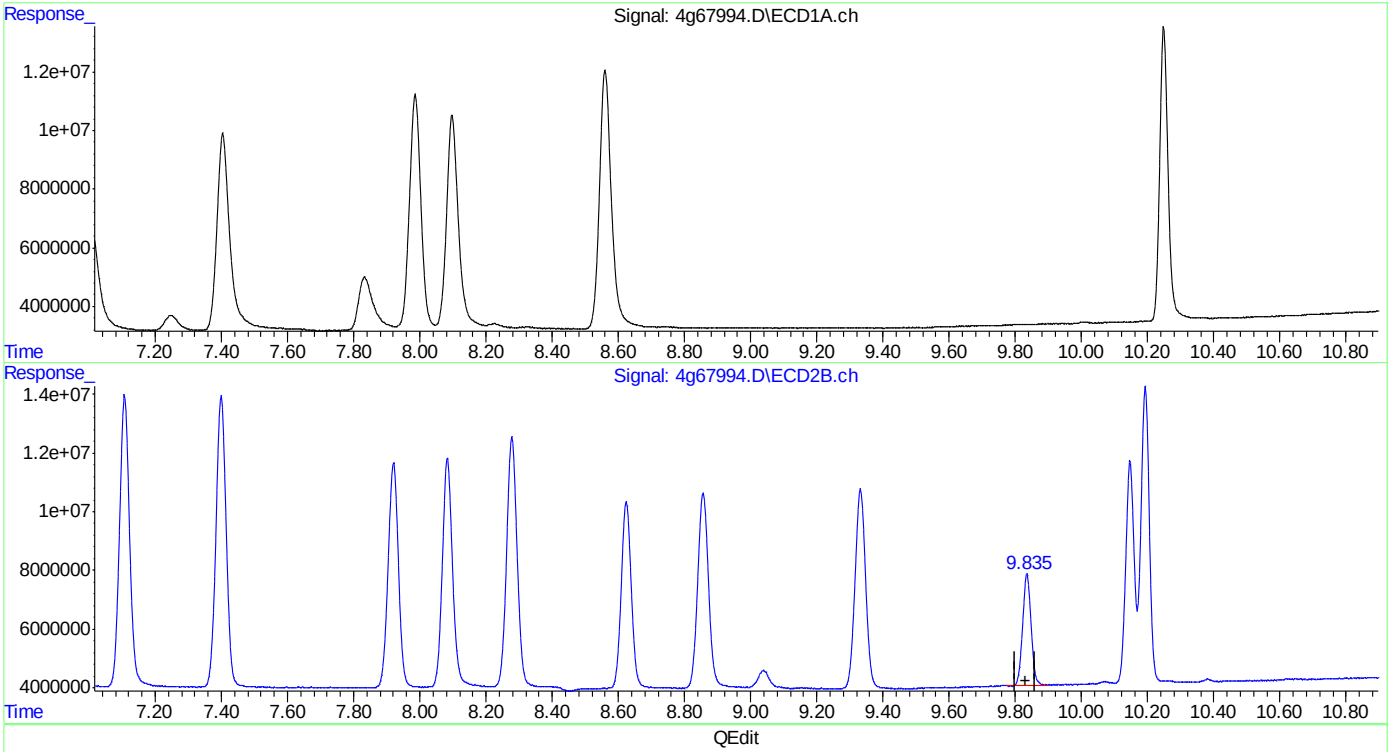
SGS ACCUTEST JC19759

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

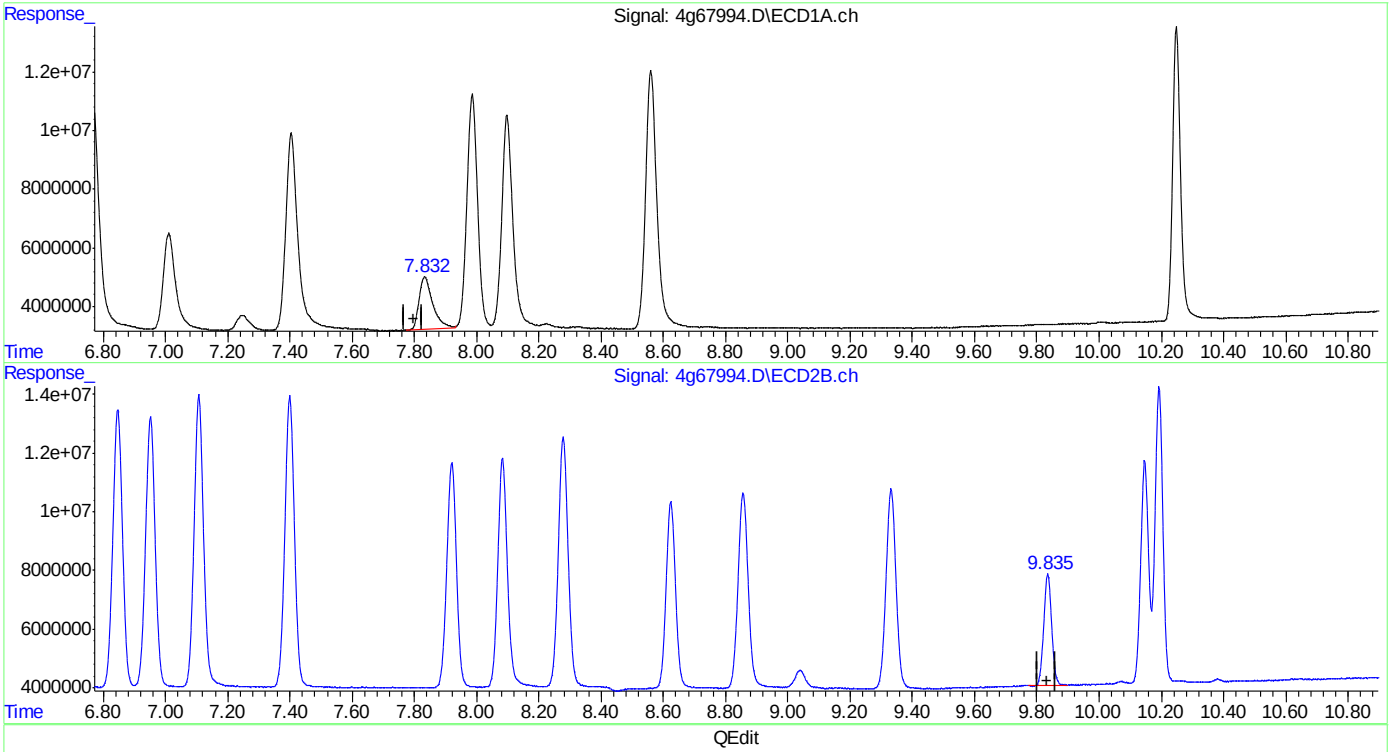
(+) = Expected Retention Time

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

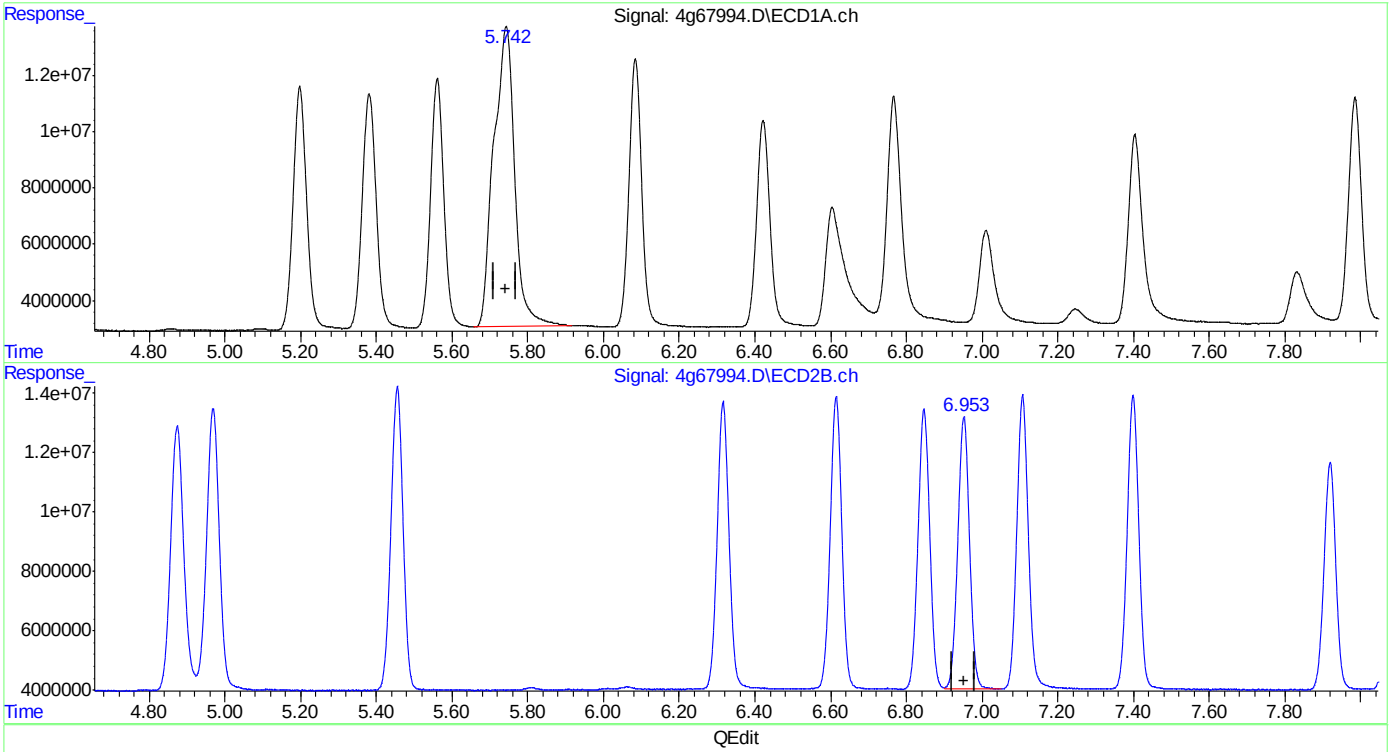
(+) = Expected Retention Time

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

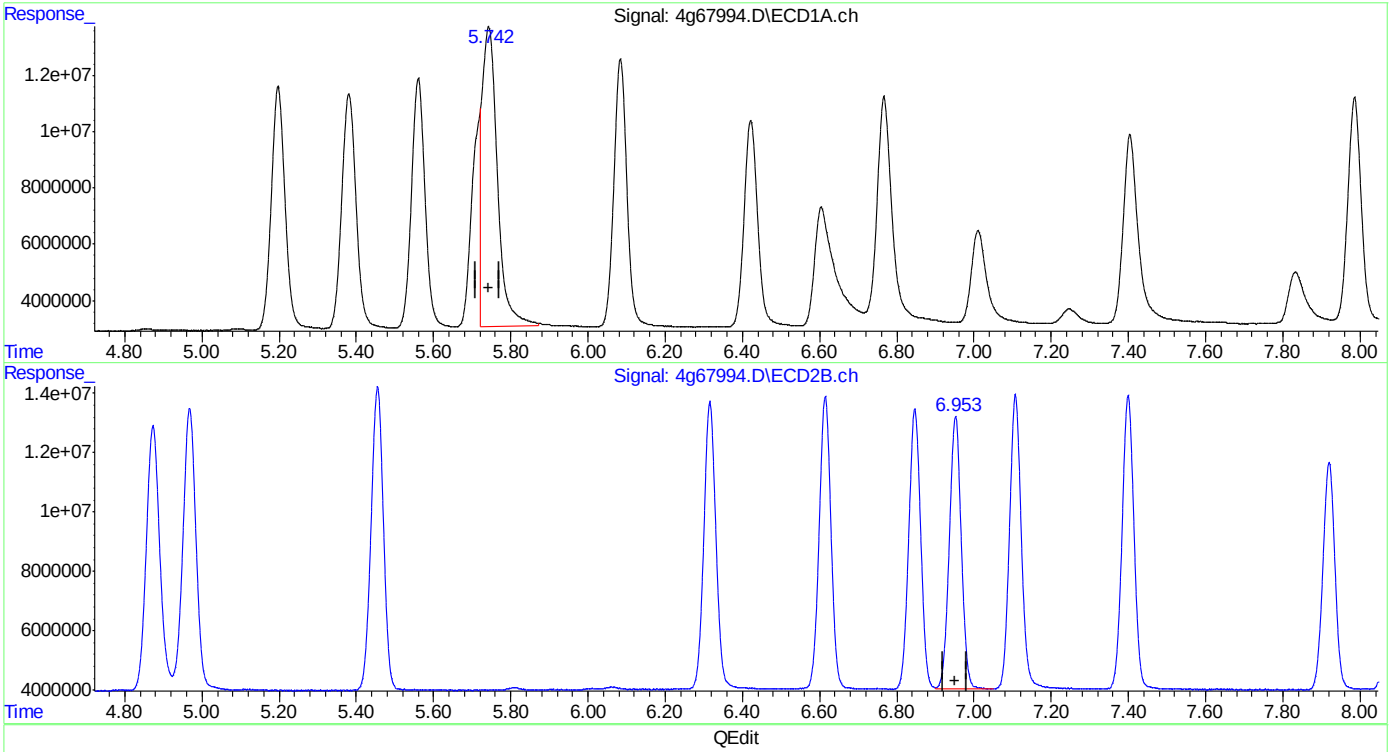
(+) = Expected Retention Time

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



(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

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 1615724-1H8A	Pest mix 1st source	25 ppb
-1H8B		50
-1H8C		1
-1H8D		2
-1H8E		5
-1H8F		10
-1H8G		25
-1H8H		100
CP 1515624-137	mix + 2nd source	250 ppb

Standard Data

Lot #	Description	Conc.
SV 1615724-125	Pest IS/SD	5 ppm
-71	PCM	10-250 ppb
-87	IB	200 ppb
-20	chlordane 1st	10 ppm
-31	Toxaphene 1st	10 ppm
-95	Pest mix 2nd source	250 ppb
-96	chlordane 2nd source	500 ppb
-97	Toxaphene 2nd source	500 ppb

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR Date: 5/4/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	h2678-30	blnk				1			/	ok	
	831	IB				2			/	ok	
	832	IC 1778-1	1st source	Pest mix		3			/	ok	
	833	-2				4			/	ok	
	834	-5				5			/	ok	
	835	-10				6			/	ok	
	836	IC 1778-25				7			/	ok	
	837	IC 1778-50				8			/	ok	
	838	-75				9			/	ok	
	839	-100				10			/	ok	
	840	-500		CHL		11	20		/	ok	
	841	-500		TOX		12	20		/	ok	
	842	IC 1778-25	2nd source	Pest		13	10		/	ok	
	843	-25		mix		14	10		/	ok	
	844	-500		CHL		15			/	ok	
	845	-500		TOX		16			/	ok	

JR 5/3/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST JC19759

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	Pem	10-250ppb
-148A	Pest Mix	25 ppb
-148B	1	50
-87	I.B.	20
1608063	Hexane (Fisher)	—

Columns: ZBCLPI | ZBCLPII

Method 8081/1608

Initial Cal. Method 4PST 1778

Injection Volume: 1µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JP **Date:** 5/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4g 67942	ddt			W	1				OK	
	943	cc1778-25				2				OK	
	944	I.B.				3				OK	
	945	OP93657-MB1	93657-1	8081 TCLP	W	5				OK	
	946	-BS1				6				OK	
	947	OP93667-MB1	93667-1	8081 TCL	W	7				NOT RUN	Cut from Sequence
	948	-BS1				8				↓	↓
	949	-BSD				9				↓	↓
	950	JC19523-1	93657-1	8081 TCLP	W	10				OK	
	951	JC18915-5R				11				OK	
	952	JC19524-1				12				OK	
	953	JC19569-1				13				NOT RUN	Cut from Seque
	954	-2				14				↓	↓
	955	JC19559-1				15				↓	↓
	956	JC19558-7A				16				↓	↓
	957	JC19573-6A				17				↓	↓
	958	-13A				18				↓	↓
	959	OP93657-LB28				19				↓	↓
	960	-LB29				20				NOT RUN	Cut from Sequence

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G1782

Print Analyst Name: Brittany Pierce

Analyst Signature: B.P.

Date: 05/06/2016

Columns: ZBCLPI / ZBCLPII

Method 8081 / 608

Initial Cal. Method 4PST 1778

Injection Volume: 1 µl

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
8M61874-136	Pest ISTD	5ppm
-79	Pem	10-250ppb
-148B	Pest Mix	50
-148A	1	25
-87	I.B.	20
1608663	Hexane (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JP **Date:** 5/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4g 67951	OP93657-LS15	93657-1	8081 TCLP	W	21				NOT RUN	Cut from sequence. +MS also
	962	-MSD				22				↓	↓
	963	JC13380-46	93667-1	8081 TCL	W	23				NOT RUN	Cut from Sequence
	947	OP93665-MB1	93665-1	8081 TCL	W S	7				OK	
	948	-BS1		BPS 6/16		8				OK	
	960	JC19644-1				20				OK	Ran Before "4g67952"
	961	-2				21				OK	
	962	-3				22				OK	
	963	OP93665-MS				23				NOT RUN	cut from sequence
	964	-MSD				24				NOT RUN	↓
	963	OP93683-MB1	93683	8081 TCL	S	23				OK	
	964	-BS1				24				OK	
	965	-BS13				25				OK	
	966	JC19505-1				26				OK	
	967	-2				27				OK	
	968	-3				28				OK	
	969	JC19509-1				29				OK	
	970	-2				30				OK	
	971	JC19559-1	93657	8081 TCLP	W	31				OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GNC 1782

Print Analyst Name: Dhara Saporia

Date: 5/6/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16187-DS	Pest ISTD	50 ppm
-79	PCM	10-250 ppb
-87	DB	20 ppb
-100	Pest mix	25
-100	Pest mix	50
1605-63	Methane (Fisher)	–

Columns: 2DCLPP | 2DCLPM

Method 8081

Initial Cal. Method LPS1 1778

Injection Volume: 1.0 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JP Date: 5/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	h267972	blank				1				ok	
	973	CC1778-50				2				ok	
	974	DB				3				ok	
	975	OP93694-MB1	93694	8081 TCL	W	5				ok	
	976	-BS1				6				ok	
	977	-MS				7				ok	
	978	-MSD				8				ok	
	979	JC19759-1				9				ok	
	980	-2				10				ok	
	981	-3				11				ok	
	982	-4				12				ok	
	983	-5				13				ok	
	984	-6				14				ok	
	985	JC19569-1	93657	8081 TCLP	W	15				ok	
	986	-2				16				ok	
	987	JC19558-7A				17				ok	
	988	JC19573-6A				18				ok	
	989	-13A				19				ok	
	990	OP93657-LRB				20				ok	

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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.
161-1m-135	Pest IRTD	5 ppm
-79	PCM	10-250 ppb
-87	TB	20 ppb
-1wm	Pest mix	25
-1wm	Pest mix	50
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
	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	TB				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

LOGBOOK ID: 6-1741

Date Started: 5/6/16 Time Started: 1245

Date Finished: 5/6/16 Time Finished: 1440

Pest/PCB Extraction Log - Aqueous

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):

Separatory Funnel: SW846 3510C/CLP/other_____

Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # GC 93694 RACK# Pest-5

Extracted by: [illegible]

Concentrated by: [illegible]

Vialed by: [illegible]

Relinquished by:

Accepted by:

Supervisor Review: [illegible] 5/6/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	A2	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	1617 1291	400	0.2

WITNESS SIGN: [illegible] SPIKE SIGN: [illegible]

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	1617127710	250	0.2
PCB			

WITNESS SIGN: [illegible] SPIKE SIGN: [illegible]

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162661	Fisher	3165
HEXANE	160867	Fisher	1150

REAGENT	LOT #	BRAND
Sodium Sulfate	148420	Fisher
Glass Wool	02905-2	J&J
Filter Paper		Ahlstrom
Copper	12171260	Aldrich
Florisil		
1:1 Sulfuric Acid		
Chlorine Strips		

Special Client Spike Instructions

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

WITNESS SIGN: SPIKE SIGN:

Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

	Sample #	Analysis Type	Sample Bottle #	pH	Sample Description	Sample Volume (mL)	Final Extract Color	Final Extract Vol(mL)	GPC	Copper	H2SO4	Florisil	Comments
	MB1	Pest			DI H2O	500	Clear	2		/			
	BS1	LVI			DI H2O	300	Clear	2		/			
	JC19759-1 MS		4		Yellow	150	Clear	2		/			
	↓ MSD		4		Yellow	150	Clear	2		/			
	BS												
	MS												
	MSD												
1	JC19759-1	Pest	3		Yellow	300	Clear	2		/			
2	-2	LVI	3		Yellow	300	Clear	2		/			
3	-3		3		Clear	300	Clear	2		/			
4	-4		3		Yellow	300	Clear	2		/			
5	-5		3		Yellow	300	Clear	2		/			
6	-6		3		Yellow	300	Clear	2		/			
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

1d TAT

Comments: okay to split MS/MSD, not enough bottles

SGS ACCUTEST INC.
Form: OP021A-06
Rev Date: 1/13/16

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