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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

02I

SGS Accutest Job Number: JC24622

Sampling Dates: 07/20/16 - 07/22/16

Report to:

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

ATTN: Terry Taylor

Total number of pages in report: **419**

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

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

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

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Test results relate only to samples analyzed.

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Sample Summary

Anderson, Mulholland & Associates

Job No: JC24622

BMSMC, Building 5 Area, PR
Project No: 02I

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC24622-1	07/20/16	15:15	TT	07/23/16	AQ	Ground Water	OSGP13-GWD
JC24622-2	07/21/16	12:30	TT	07/23/16	AQ	Ground Water	OSGP13-GWS
JC24622-2D	07/21/16	12:30	TT	07/23/16	AQ	Water Dup/MSD	OSGP13MSD-GWS
JC24622-2S	07/21/16	12:30	TT	07/23/16	AQ	Water Matrix Spike	OSGP13MS-GWS
JC24622-3	07/21/16	15:45	TT	07/23/16	AQ	Ground Water	OSGP14-GWD
JC24622-4	07/22/16	09:45	RS	07/23/16	AQ	Equipment Blank	BPEB-14

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC24622
Site:	BMSMC, Building 5 Area, PR	**Report Date**	8/8/2016 10:29:11 AM

On 07/23/2016, 3 Sample(s), 1 Equipment Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 4.3 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC24622 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 BY SIM

Matrix: AQ **Batch ID:** OP95821A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC24549-20MS, JC24549-20MSD were used as the QC samples indicated.
- RPD(s) for MSD for 1,4-Dioxane are outside control limits for sample OP95821A-MSD. Analytical precision exceeds in-house control limits.

Matrix: AQ **Batch ID:** OP95827A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC24622-2MS, JC24622-2MSD were used as the QC samples indicated.
- RPD(s) for MSD for 1,4-Dioxane are outside control limits for sample OP95827A-MSD. Analytical precision exceeds in-house control limits.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the 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.

SGS Accutest 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 SGS Accutest indicated via signature on the report cover

Summary of Hits

Job Number: JC24622
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 07/20/16 thru 07/22/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC24622-1	**OSGP13-GWD**					
No hits reported in this sample.						
JC24622-2	**OSGP13-GWS**					
No hits reported in this sample.						
JC24622-3	**OSGP14-GWD**					
1,4-Dioxane		74.7	1.1	0.055	ug/l	SW846 8270D BY SIM
JC24622-4	**BPEB-14**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP13-GWD		
Lab Sample ID:	JC24622-1	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
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	3P55262.D	1	07/26/16	AN	07/25/16	OP95827A	E3P2524
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	ND	0.11	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		24-125%
321-60-8	2-Fluorobiphenyl	51%		19-127%
1718-51-0	Terphenyl-d14	46%		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:	OSGP13-GWS		
Lab Sample ID:	JC24622-2	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
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	3P55261.D	1	07/26/16	AN	07/25/16	OP95827A	E3P2524
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	ND	0.11	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		24-125%
321-60-8	2-Fluorobiphenyl	46%		19-127%
1718-51-0	Terphenyl-d14	43%		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:	OSGP14-GWD		
Lab Sample ID:	JC24622-3	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
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	P106366.D	1	07/26/16	BP	07/25/16	OP95827A	EP4702
Run #2	3P55263.D	1	07/26/16	AN	07/25/16	OP95827A	E3P2524

	Initial Volume	Final Volume
Run #1	890 ml	1.0 ml
Run #2	890 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	0.11	0.033	ug/l	
123-91-1	1,4-Dioxane	74.7	1.1	0.055	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%	70%	24-125%
321-60-8	2-Fluorobiphenyl	73%	46%	19-127%
1718-51-0	Terphenyl-d14	61%	38%	10-119%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-14		
Lab Sample ID:	JC24622-4	**Date Sampled:**	07/22/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/23/16
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	3M63452.D	1	08/04/16	SG	07/26/16	OP95821A	E3M3007
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	
123-91-1	1,4-Dioxane	ND	0.11	0.051	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		24-125%
321-60-8	2-Fluorobiphenyl	70%		19-127%
1718-51-0	Terphenyl-d14	71%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

ACCUTEST LABORATORIES

GW WISB

CHAIN OF CUSTODY

PAGE 1 OF 1

NJ

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

809862883453

Accutest Quote #

Bottle Order Control #

Accutest Job # JC24622

Client / Reporting Information

Company Name: Anderson Mulholland & Associates
Street Address: 2700 Westchester Avenue, Suite 417
City: Purchase State: NY Zip: 10577
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 Fax #:
Sampler(s) Name(s): N. Rivera, R. Stuart, R. O'Reilly, T. Taylor Phone #:

Project Information

Project Name: BMSMC Phase 2A Release Assessment
Street:
City: Humacao State: PR
Project #: 02I
Client Purchase Order #:
Project Manager: Terry Taylor

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet)

1,4-Dioxane and Naphthalene via 8270D SIM

Matrix Codes

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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	1,4-Dioxane and Naphthalene via 8270D SIM	LAB USE ONLY
1	OSGP 13-GWD		7-20-16	1515	TT	GW	2					2				X	
	OSGP 13-GWS		7-21-16	1230	TT	GW	2					2				X	E75
2	OSGP 13MS-GWS		7-21-16	1230	TT	GW	2					2				X	
	OSGP 13MSD-GWS		7-21-16	1230	TT	GW	2					2				X	
3	OSGP14-GWD		7-21-16	1545	TT	GW	2					2				X	
4	BPEB-14		7-22-16	0945	RS	EB	2					2				X	

Turnaround Time (Business days)

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

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

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

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

Comments / Special Instructions

INITIAL ASESSMENT 3B Dom

LABEL VERIFICATION JC

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	7-22-16 1200	1 FedEx	2 FX	7/23/16 9:45	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5			

Custody Seal # 284, 285 [ ] Intact [ ] Not intact Preserved where applicable [ ] On Ice [x] Cooler Temp. 2.8c

5.1 5

JC24622: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: JC24622 **Client:** **Project:**

Date / Time Received: 7/23/2016 9:45:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8); Cooler 2: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.7); 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

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC24622

BMSMC, Building 5 Area, PR
Project No: 02I

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC24622-1	Collected: 20-JUL-16 15:15 By: TT		Received: 23-JUL-16 By: DG			
OSGP13-GWD						
JC24622-1	SW846 8270D BY SIM	26-JUL-16 12:37	AN	25-JUL-16	YB	B8270SIM14DIOX,BSIM+NAP
JC24622-2	Collected: 21-JUL-16 12:30 By: TT		Received: 23-JUL-16 By: DG			
OSGP13-GWS						
JC24622-2	SW846 8270D BY SIM	26-JUL-16 12:04	AN	25-JUL-16	YB	B8270SIM14DIOX,BSIM+NAP
JC24622-3	Collected: 21-JUL-16 15:45 By: TT		Received: 23-JUL-16 By: DG			
OSGP14-GWD						
JC24622-3	SW846 8270D BY SIM	26-JUL-16 13:09	AN	25-JUL-16	YB	BSIM+NAP
JC24622-3	SW846 8270D BY SIM	26-JUL-16 16:22	BP	25-JUL-16	YB	B8270SIM14DIOX
JC24622-4	Collected: 22-JUL-16 09:45 By: RS		Received: 23-JUL-16 By: DG			
BPEB-14						
JC24622-4	SW846 8270D BY SIM	04-AUG-16 13:24	SG	26-JUL-16	NG	B8270SIM14DIOX,BSIM+NAP

SGS Accutest Internal Chain of Custody

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 07/23/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC24622-1.1	Secured Storage	Todd Shoemaker	07/25/16 15:04	Retrieve from Storage
JC24622-1.1	Todd Shoemaker	Secured Staging Area	07/25/16 15:04	Return to Storage
JC24622-1.1	Secured Staging Area	Ryan Fantasia	07/25/16 15:39	Retrieve from Storage
JC24622-1.1	Max Ponce		07/25/16 23:32	Depleted
Analyst unavailable for custody transfer.				
JC24622-1.1.1	Ryan Fantasia	Organics Prep	07/25/16 15:43	Extract from JC24622-1.1
JC24622-1.1.1	Organics Prep	Yaw Britwum	07/25/16 22:41	Extract from JC24622-1.1
JC24622-1.1.1	Yaw Britwum	Extract Storage	07/25/16 22:41	Return to Storage
JC24622-2.4	Secured Storage	Todd Shoemaker	07/25/16 15:04	Retrieve from Storage
JC24622-2.4	Todd Shoemaker	Secured Staging Area	07/25/16 15:04	Return to Storage
JC24622-2.4	Secured Staging Area	Ryan Fantasia	07/25/16 15:39	Retrieve from Storage
JC24622-2.4	Max Ponce		07/25/16 23:32	Depleted
Analyst unavailable for custody transfer.				
JC24622-2.4.1	Ryan Fantasia	Organics Prep	07/25/16 15:43	Extract from JC24622-2.4
JC24622-2.4.1	Organics Prep	Yaw Britwum	07/25/16 22:41	Extract from JC24622-2.4
JC24622-2.4.1	Yaw Britwum	Extract Storage	07/25/16 22:41	Return to Storage
JC24622-2.5	Secured Storage	Todd Shoemaker	07/25/16 15:04	Retrieve from Storage
JC24622-2.5	Todd Shoemaker	Secured Staging Area	07/25/16 15:04	Return to Storage
JC24622-2.5	Secured Staging Area	Ryan Fantasia	07/25/16 15:39	Retrieve from Storage
JC24622-2.5	Max Ponce		07/25/16 23:32	Depleted
Analyst unavailable for custody transfer.				
JC24622-2.6	Secured Storage	Todd Shoemaker	07/25/16 15:04	Retrieve from Storage
JC24622-2.6	Todd Shoemaker	Secured Staging Area	07/25/16 15:04	Return to Storage
JC24622-2.6	Secured Staging Area	Ryan Fantasia	07/25/16 15:39	Retrieve from Storage
JC24622-2.6	Max Ponce		07/25/16 23:32	Depleted
Analyst unavailable for custody transfer.				
JC24622-3.1	Secured Storage	Todd Shoemaker	07/25/16 15:04	Retrieve from Storage
JC24622-3.1	Todd Shoemaker	Secured Staging Area	07/25/16 15:04	Return to Storage
JC24622-3.1	Secured Staging Area	Ryan Fantasia	07/25/16 15:39	Retrieve from Storage
JC24622-3.1	Max Ponce		07/25/16 23:32	Depleted
Analyst unavailable for custody transfer.				
JC24622-3.1.1	Ryan Fantasia	Organics Prep	07/25/16 15:43	Extract from JC24622-3.1
JC24622-3.1.1	Organics Prep	Yaw Britwum	07/25/16 22:41	Extract from JC24622-3.1
JC24622-3.1.1	Yaw Britwum	Extract Storage	07/25/16 22:41	Return to Storage
JC24622-4.1	Secured Storage	Vikas Parikh	07/26/16 04:15	Retrieve from Storage
JC24622-4.1	Vikas Parikh		07/26/16 12:46	Depleted

SGS Accutest Internal Chain of Custody

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 07/23/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC24622-4.1.1	Vikas Parikh	Organics Prep	07/26/16 04:34	Extract from JC24622-4.1
JC24622-4.1.1	Organics Prep	Nicholas Goydish	07/26/16 15:14	Extract from JC24622-4.1
JC24622-4.1.1	Nicholas Goydish	Extract Storage	07/26/16 15:14	Return to Storage
JC24622-4.2	Secured Storage	Todd Shoemaker	07/25/16 15:04	Retrieve from Storage
JC24622-4.2	Todd Shoemaker	Secured Staging Area	07/25/16 15:04	Return to Storage
JC24622-4.2	Secured Staging Area	Ryan Fantasia	07/25/16 15:39	Retrieve from Storage
JC24622-4.2	Ryan Fantasia	Secured Storage	07/25/16 19:22	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: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95827A-MB1	3P55257.D	1	07/26/16	AN	07/25/16	OP95827A	E3P2524

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

JC24622-1, JC24622-2, JC24622-3

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	85%	24-125%
321-60-8	2-Fluorobiphenyl	56%	19-127%
1718-51-0	Terphenyl-d14	59%	10-119%

Method Blank Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95827A-MB1	P106365.D	1	07/26/16	BP	07/25/16	OP95827A	EP4702

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

JC24622-1, JC24622-2, JC24622-3

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	59%	24-125%
321-60-8	2-Fluorobiphenyl	64%	19-127%
1718-51-0	Terphenyl-d14	64%	10-119%

Method Blank Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95821A-MB1	3M63373.D	1	08/01/16	SG	07/26/16	OP95821A	E3M3002

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

JC24622-4

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
367-12-4	2-Fluorophenol	35%	14-81%
4165-62-2	Phenol-d5	26%	11-54%
118-79-6	2,4,6-Tribromophenol	54%	35-145%
4165-60-0	Nitrobenzene-d5	65%	24-125%
321-60-8	2-Fluorobiphenyl	63%	19-127%
1718-51-0	Terphenyl-d14	80%	10-119%

Method Blank Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95821A-MB1	3P55410.D	1	08/02/16	AD	07/26/16	OP95821A	E3P2534

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

JC24622-4

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
367-12-4	2-Fluorophenol	39%	14-81%
4165-62-2	Phenol-d5	29%	11-54%
118-79-6	2,4,6-Tribromophenol	81%	35-145%
4165-60-0	Nitrobenzene-d5	65%	24-125%
321-60-8	2-Fluorobiphenyl	51%	19-127%
1718-51-0	Terphenyl-d14	64%	10-119%

Method Blank Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95821A-MB1	4M67187.D	1	08/05/16	SG	07/26/16	OP95821A	E4M3036

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

JC24622-4

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
367-12-4	2-Fluorophenol	44%	14-81%
4165-62-2	Phenol-d5	30%	11-54%
118-79-6	2,4,6-Tribromophenol	80%	35-145%
4165-60-0	Nitrobenzene-d5	66%	24-125%
321-60-8	2-Fluorobiphenyl	76%	19-127%
1718-51-0	Terphenyl-d14	84%	10-119%

Blank Spike Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95827A-BS12	3P55258.D	1	07/26/16	AN	07/25/16	OP95827A	E3P2524

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

JC24622-1, JC24622-2, JC24622-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.904	90	40-119
123-91-1	1,4-Dioxane	1	0.557	56	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	101%	24-125%
321-60-8	2-Fluorobiphenyl	64%	19-127%
1718-51-0	Terphenyl-d14	63%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95821A-BS12	3P55411.D	1	08/02/16	AD	07/26/16	OP95821A	E3P2534

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

JC24622-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.766	77	40-119
123-91-1	1,4-Dioxane	1	0.553	55	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	46%	14-81%
4165-62-2	Phenol-d5	35%	11-54%
118-79-6	2,4,6-Tribromophenol	89%	35-145%
4165-60-0	Nitrobenzene-d5	78%	24-125%
321-60-8	2-Fluorobiphenyl	58%	19-127%
1718-51-0	Terphenyl-d14	64%	10-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95827A-MS	3P55259.D	1	07/26/16	AN	07/25/16	OP95827A	E3P2524
OP95827A-MSD	3P55260.D	1	07/26/16	AN	07/25/16	OP95827A	E3P2524
JC24622-2	3P55261.D	1	07/26/16	AN	07/25/16	OP95827A	E3P2524

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

JC24622-1, JC24622-2, JC24622-3

CAS No.	Compound	JC24622-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	ND		1.09	0.826	76	1.1	0.824	75	0	23-140/36
123-91-1	1,4-Dioxane	ND		1.09	0.600	55	1.1	0.437	40	31* [a]	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC24622-2	Limits
4165-60-0	Nitrobenzene-d5	79%	77%	73%	24-125%
321-60-8	2-Fluorobiphenyl	55%	51%	46%	19-127%
1718-51-0	Terphenyl-d14	40%	38%	43%	10-119%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95821A-MS	3P55412.D	1	08/02/16	AD	07/26/16	OP95821A	E3P2534
OP95821A-MSD	3P55413.D	1	08/02/16	AD	07/26/16	OP95821A	E3P2534
JC24549-20	3P55414.D	1	08/02/16	AD	07/26/16	OP95821A	E3P2534

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

JC24622-4

CAS No.	Compound	JC24549-20 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	ND		2	1.33	67	2	1.36	68	2	23-140/36
123-91-1	1,4-Dioxane	ND		2	1.67	84	2	1.17	59	35* [a]	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC24549-20	Limits
367-12-4	2-Fluorophenol	55%	47%	35%	14-81%
4165-62-2	Phenol-d5	52%	43%	26%	11-54%
118-79-6	2,4,6-Tribromophenol	73%	88%	82%	35-145%
4165-60-0	Nitrobenzene-d5	64%	65%	63%	24-125%
321-60-8	2-Fluorobiphenyl	58%	59%	54%	19-127%
1718-51-0	Terphenyl-d14	58%	54%	45%	10-119%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2975-DFTPP
Lab File ID: 3M62949.D
Instrument ID: GCMS3M
Injection Date: 07/14/16
Injection Time: 09:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	93493	45.9		Pass
68	Less than 2.0% of mass 69	952	0.47	(0.96) [a]	Pass
69	Mass 69 relative abundance	99021	48.6		Pass
70	Less than 2.0% of mass 69	292	0.14	(0.29) [a]	Pass
127	40.0 - 60.0% of mass 198	104053	51.0		Pass
197	Less than 1.0% of mass 198	639	0.31		Pass
198	Base peak, 100% relative abundance	203896	100.0		Pass
199	5.0 - 9.0% of mass 198	14288	7.01		Pass
275	10.0 - 30.0% of mass 198	46742	22.9		Pass
365	1.0 - 100.0% of mass 198	7258	3.56		Pass
441	Present, but less than mass 443	26169	12.8	(77.8) [b]	Pass
442	40.0 - 100.0% of mass 198	174995	85.8		Pass
443	17.0 - 23.0% of mass 442	33633	16.5	(19.2) [c]	Pass

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

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2975-IC2975	3M62950.D	07/14/16	10:23	00:53	Initial cal 0.2
E3M2975-IC2975	3M62951.D	07/14/16	10:55	01:25	Initial cal 0.1
E3M2975-IC2975	3M62952.D	07/14/16	11:28	01:58	Initial cal 0.05
E3M2975-IC2975	3M62953.D	07/14/16	12:01	02:31	Initial cal 0.02
E3M2975-IC2975	3M62954.D	07/14/16	12:34	03:04	Initial cal 0.01
E3M2975-IC2975	3M62955.D	07/14/16	13:07	03:37	Initial cal 5.0
E3M2975-IC2975	3M62956.D	07/14/16	13:40	04:10	Initial cal 2.5
E3M2975-ICC2975	3M62957.D	07/14/16	14:13	04:43	Initial cal 1.0
E3M2975-IC2975	3M62958.D	07/14/16	14:47	05:17	Initial cal 0.5

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2976-DFTPP
Lab File ID: 3M62961.D
Instrument ID: GCMS3M
Injection Date: 07/14/16
Injection Time: 17:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	95013	46.3		Pass
68	Less than 2.0% of mass 69	3	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	96831	47.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	109997	53.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	205083	100.0		Pass
199	5.0 - 9.0% of mass 198	13647	6.65		Pass
275	10.0 - 30.0% of mass 198	47211	23.0		Pass
365	1.0 - 100.0% of mass 198	8163	3.98		Pass
441	Present, but less than mass 443	27820	13.6	(76.4) [b]	Pass
442	40.0 - 100.0% of mass 198	184928	90.2		Pass
443	17.0 - 23.0% of mass 442	36390	17.7	(19.7) [c]	Pass

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

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2976-ICV2975	3M62962.D	07/14/16	17:18	00:14	Initial cal verification 1.0
E3M2976-ICV2975	3M62963.D	07/14/16	17:51	00:47	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M3002-DFTPP
Lab File ID: 3M63366.D
Instrument ID: GCMS3M
Injection Date: 08/01/16
Injection Time: 10:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	147117	51.6		Pass
68	Less than 2.0% of mass 69	343	0.12	(0.24) [a]	Pass
69	Mass 69 relative abundance	140231	49.2		Pass
70	Less than 2.0% of mass 69	138	0.05	(0.10) [a]	Pass
127	40.0 - 60.0% of mass 198	158611	55.6		Pass
197	Less than 1.0% of mass 198	1661	0.58		Pass
198	Base peak, 100% relative abundance	285296	100.0		Pass
199	5.0 - 9.0% of mass 198	19567	6.86		Pass
275	10.0 - 30.0% of mass 198	71288	25.0		Pass
365	1.0 - 100.0% of mass 198	15798	5.54		Pass
441	Present, but less than mass 443	29111	10.2	(83.1) [b]	Pass
442	40.0 - 100.0% of mass 198	191765	67.2		Pass
443	17.0 - 23.0% of mass 442	35020	12.3	(18.3) [c]	Pass

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

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M3002-CC2975	3M63367.D	08/01/16	10:43	00:11	Continuing cal .5
OP95789A-BS12	3M63369.D	08/01/16	12:01	01:29	Blank Spike
JC24483-1	3M63370.D	08/01/16	12:33	02:01	(used for QC only; not part of job JC24622)
OP95789A-MS	3M63371.D	08/01/16	13:06	02:34	Matrix Spike
OP95789A-MSD	3M63372.D	08/01/16	13:39	03:07	Matrix Spike Duplicate
OP95821A-MB1	3M63373.D	08/01/16	14:34	04:02	Method Blank
ZZZZZZ	3M63375.D	08/01/16	15:40	05:08	(unrelated sample)
OP95909A-MB1	3M63376.D	08/01/16	16:13	05:41	Method Blank
JC24566-1	3M63377.D	08/01/16	16:46	06:14	(used for QC only; not part of job JC24622)

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M3007-DFTPP
Lab File ID: 3M63449.D
Instrument ID: GCMS3M
Injection Date: 08/04/16
Injection Time: 12:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	318735	55.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	290249	50.3		Pass
70	Less than 2.0% of mass 69	1309	0.23	(0.45) [a]	Pass
127	40.0 - 60.0% of mass 198	344619	59.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	577557	100.0		Pass
199	5.0 - 9.0% of mass 198	39366	6.82		Pass
275	10.0 - 30.0% of mass 198	136907	23.7		Pass
365	1.0 - 100.0% of mass 198	27716	4.80		Pass
441	Present, but less than mass 443	64460	11.2	(82.9) [b]	Pass
442	40.0 - 100.0% of mass 198	397205	68.8		Pass
443	17.0 - 23.0% of mass 442	77767	13.5	(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
E3M3007-CC2975	3M63451.D	08/04/16	12:51	00:46	Continuing cal 1
JC24622-4	3M63452.D	08/04/16	13:24	01:19	BPEB-14

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2503-DFTPP
Lab File ID: 3P54953.D
Instrument ID: GCMS3P
Injection Date: 07/06/16
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	57126	38.2		Pass
68	Less than 2.0% of mass 69	1062	0.71	(1.70) [a]	Pass
69	Mass 69 relative abundance	62449	41.8		Pass
70	Less than 2.0% of mass 69	387	0.26	(0.62) [a]	Pass
127	40.0 - 60.0% of mass 198	72301	48.4		Pass
197	Less than 1.0% of mass 198	1015	0.68		Pass
198	Base peak, 100% relative abundance	149501	100.0		Pass
199	5.0 - 9.0% of mass 198	10162	6.80		Pass
275	10.0 - 30.0% of mass 198	33995	22.7		Pass
365	1.0 - 100.0% of mass 198	4170	2.79		Pass
441	Present, but less than mass 443	16547	11.1	(81.6) [b]	Pass
442	40.0 - 100.0% of mass 198	109091	73.0		Pass
443	17.0 - 23.0% of mass 442	20290	13.6	(18.6) [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
E3P2503-ICC2503	3P54955.D	07/06/16	10:32	01:20	Initial cal 1.0
E3P2503-IC2503	3P54956.D	07/06/16	11:26	02:14	Initial cal 0.01
E3P2503-IC2503	3P54957.D	07/06/16	11:57	02:45	Initial cal 0.02
E3P2503-IC2503	3P54958.D	07/06/16	12:28	03:16	Initial cal 0.05
E3P2503-IC2503	3P54959.D	07/06/16	12:59	03:47	Initial cal 0.1
E3P2503-IC2503	3P54960.D	07/06/16	13:30	04:18	Initial cal 0.2
E3P2503-IC2503	3P54961.D	07/06/16	14:02	04:50	Initial cal 5
E3P2503-IC2503	3P54962.D	07/06/16	14:33	05:21	Initial cal 2.5
E3P2503-IC2503	3P54963.D	07/06/16	15:04	05:52	Initial cal 0.5
E3P2503-ICV2503	3P54964.D	07/06/16	17:37	08:25	Initial cal verification 1.0
E3P2503-ICV2503	3P54965.D	07/06/16	18:08	08:56	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2524-DFTPP
Lab File ID: 3P55255.D
Instrument ID: GCMS3P
Injection Date: 07/26/16
Injection Time: 08:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	65550	36.1		Pass
68	Less than 2.0% of mass 69	1283	0.71	(1.74) [a]	Pass
69	Mass 69 relative abundance	73803	40.7		Pass
70	Less than 2.0% of mass 69	270	0.15	(0.37) [a]	Pass
127	40.0 - 60.0% of mass 198	87165	48.0		Pass
197	Less than 1.0% of mass 198	1165	0.64		Pass
198	Base peak, 100% relative abundance	181523	100.0		Pass
199	5.0 - 9.0% of mass 198	12408	6.84		Pass
275	10.0 - 30.0% of mass 198	41400	22.8		Pass
365	1.0 - 100.0% of mass 198	5300	2.92		Pass
441	Present, but less than mass 443	21325	11.7	(80.5) [b]	Pass
442	40.0 - 100.0% of mass 198	142704	78.6		Pass
443	17.0 - 23.0% of mass 442	26480	14.6	(18.6) [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
E3P2524-CC2503	3P55256.D	07/26/16	08:55	00:28	Continuing cal 0.5
OP95827A-MB1	3P55257.D	07/26/16	09:55	01:28	Method Blank
OP95827A-BS12	3P55258.D	07/26/16	10:27	02:00	Blank Spike
OP95827A-MS	3P55259.D	07/26/16	11:00	02:33	Matrix Spike
OP95827A-MSD	3P55260.D	07/26/16	11:32	03:05	Matrix Spike Duplicate
JC24622-2	3P55261.D	07/26/16	12:04	03:37	OSGP13-GWS
JC24622-1	3P55262.D	07/26/16	12:37	04:10	OSGP13-GWD
JC24622-3	3P55263.D	07/26/16	13:09	04:42	OSGP14-GWD

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2534-DFTPP
Lab File ID: 3P55400.D
Instrument ID: GCMS3P
Injection Date: 08/02/16
Injection Time: 08:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	65780	37.2		Pass
68	Less than 2.0% of mass 69	834	0.47	(1.15) [a]	Pass
69	Mass 69 relative abundance	72656	41.1		Pass
70	Less than 2.0% of mass 69	253	0.14	(0.35) [a]	Pass
127	40.0 - 60.0% of mass 198	85875	48.6		Pass
197	Less than 1.0% of mass 198	1192	0.67		Pass
198	Base peak, 100% relative abundance	176699	100.0		Pass
199	5.0 - 9.0% of mass 198	12012	6.80		Pass
275	10.0 - 30.0% of mass 198	40499	22.9		Pass
365	1.0 - 100.0% of mass 198	5432	3.07		Pass
441	Present, but less than mass 443	20462	11.6	(78.8) [b]	Pass
442	40.0 - 100.0% of mass 198	137056	77.6		Pass
443	17.0 - 23.0% of mass 442	25979	14.7	(19.0) [c]	Pass

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

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3P2534-CC2503	3P55401.D	08/02/16	09:07	00:12	Continuing cal 1
ZZZZZZ	3P55402.D	08/02/16	09:45	00:50	(unrelated sample)
ZZZZZZ	3P55403A.D	08/02/16	10:51	01:56	(unrelated sample)
ZZZZZZ	3P55404.D	08/02/16	11:23	02:28	(unrelated sample)
ZZZZZZ	3P55405.D	08/02/16	11:56	03:01	(unrelated sample)
OP95939A-MB1	3P55421.D	08/02/16	13:02	04:07	Method Blank
OP95939A-BS12	3P55422.D	08/02/16	13:35	04:40	Blank Spike
ZZZZZZ	3P55423.D	08/02/16	14:08	05:13	(unrelated sample)
ZZZZZZ	3P55407.D	08/02/16	14:41	05:46	(unrelated sample)
OP95661A-MS	3P55408.D	08/02/16	15:13	06:18	Matrix Spike
OP95661A-MSD	3P55409.D	08/02/16	15:46	06:51	Matrix Spike Duplicate
OP95821A-MB1	3P55410.D	08/02/16	16:18	07:23	Method Blank
OP95821A-BS12	3P55411.D	08/02/16	16:51	07:56	Blank Spike
OP95821A-MS	3P55412.D	08/02/16	17:23	08:28	Matrix Spike
OP95821A-MSD	3P55413.D	08/02/16	17:56	09:01	Matrix Spike Duplicate
JC24549-20	3P55414.D	08/02/16	18:28	09:33	(used for QC only; not part of job JC24622)
ZZZZZZ	3P55415.D	08/02/16	19:00	10:05	(unrelated sample)
ZZZZZZ	3P55416.D	08/02/16	19:32	10:37	(unrelated sample)
ZZZZZZ	3P55418.D	08/02/16	20:35	11:40	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M3032-DFTPP
Lab File ID: 4M67122.D
Instrument ID: GCMS4M
Injection Date: 08/03/16
Injection Time: 15:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	44576	38.2		Pass
68	Less than 2.0% of mass 69	836	0.72	(1.42) [a]	Pass
69	Mass 69 relative abundance	59004	50.6		Pass
70	Less than 2.0% of mass 69	421	0.36	(0.71) [a]	Pass
127	40.0 - 60.0% of mass 198	67603	57.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	116659	100.0		Pass
199	5.0 - 9.0% of mass 198	7492	6.42		Pass
275	10.0 - 30.0% of mass 198	25057	21.5		Pass
365	1.0 - 100.0% of mass 198	3210	2.75		Pass
441	Present, but less than mass 443	15230	13.1	(76.2) [b]	Pass
442	40.0 - 100.0% of mass 198	102915	88.2		Pass
443	17.0 - 23.0% of mass 442	19992	17.1	(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
E4M3032-IC3032	4M67123.D	08/03/16	16:19	00:21	Initial cal 1.0
E4M3032-ICC3032	4M67124.D	08/03/16	16:50	00:52	Initial cal 0.5
E4M3032-IC3032	4M67125.D	08/03/16	17:22	01:24	Initial cal 0.2
E4M3032-IC3032	4M67126.D	08/03/16	17:53	01:55	Initial cal 0.1
E4M3032-IC3032	4M67127.D	08/03/16	18:25	02:27	Initial cal 0.05
E4M3032-IC3032	4M67128.D	08/03/16	18:56	02:58	Initial cal 0.02
E4M3032-IC3032	4M67129.D	08/03/16	19:27	03:29	Initial cal 0.01
E4M3032-IC3032	4M67130.D	08/03/16	19:58	04:00	Initial cal 5
E4M3032-IC3032	4M67131.D	08/03/16	20:30	04:32	Initial cal 2.5
E4M3032-ICV3032	4M67132.D	08/03/16	21:01	05:03	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M3033-DFTPP
Lab File ID: 4M67135.D
Instrument ID: GCMS4M
Injection Date: 08/04/16
Injection Time: 10:10

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	27848	36.1		Pass
68	Less than 2.0% of mass 69	278	0.36	(0.75) [a]	Pass
69	Mass 69 relative abundance	37220	48.2		Pass
70	Less than 2.0% of mass 69	103	0.13	(0.28) [a]	Pass
127	40.0 - 60.0% of mass 198	42963	55.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	77235	100.0		Pass
199	5.0 - 9.0% of mass 198	5461	7.07		Pass
275	10.0 - 30.0% of mass 198	17819	23.1		Pass
365	1.0 - 100.0% of mass 198	2312	2.99		Pass
441	Present, but less than mass 443	11185	14.5	(75.5) [b]	Pass
442	40.0 - 100.0% of mass 198	76672	99.3		Pass
443	17.0 - 23.0% of mass 442	14810	19.2	(19.3) [c]	Pass

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

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M3033-ICV3032	4M67136.D	08/04/16	10:22	00:12	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M3036-DFTPP
Lab File ID: 4M67179.D
Instrument ID: GCMS4M
Injection Date: 08/05/16
Injection Time: 09:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17055	36.0		Pass
68	Less than 2.0% of mass 69	188	0.40	(0.80) [a]	Pass
69	Mass 69 relative abundance	23494	49.6		Pass
70	Less than 2.0% of mass 69	82	0.17	(0.35) [a]	Pass
127	40.0 - 60.0% of mass 198	26790	56.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	47413	100.0		Pass
199	5.0 - 9.0% of mass 198	3126	6.59		Pass
275	10.0 - 30.0% of mass 198	9552	20.1		Pass
365	1.0 - 100.0% of mass 198	1377	2.90		Pass
441	Present, but less than mass 443	6670	14.1	(79.0) [b]	Pass
442	40.0 - 100.0% of mass 198	42277	89.2		Pass
443	17.0 - 23.0% of mass 442	8448	17.8	(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
E4M3036-CC3032	4M67180A.D	08/05/16	10:06	00:21	Continuing cal 1
OP95661A-MB1	4M67181.D	08/05/16	10:38	00:53	Method Blank
OP95848A-BS12	4M67185.D	08/05/16	11:41	01:56	Blank Spike
ZZZZZZ	4M67182.D	08/05/16	12:12	02:27	(unrelated sample)
ZZZZZZ	4M67186.D	08/05/16	13:16	03:31	(unrelated sample)
OP95821A-MB1	4M67187.D	08/05/16	13:47	04:02	Method Blank
ZZZZZZ	4M67188.D	08/05/16	14:19	04:34	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4681-DFTPP
Lab File ID: P105967.D
Instrument ID: GCMSP
Injection Date: 07/11/16
Injection Time: 08:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	44729	46.6		Pass
68	Less than 2.0% of mass 69	971	1.01	(1.86) [a]	Pass
69	Mass 69 relative abundance	52157	54.3		Pass
70	Less than 2.0% of mass 69	124	0.13	(0.24) [a]	Pass
127	40.0 - 60.0% of mass 198	55354	57.7		Pass
197	Less than 1.0% of mass 198	195	0.20		Pass
198	Base peak, 100% relative abundance	95994	100.0		Pass
199	5.0 - 9.0% of mass 198	6194	6.45		Pass
275	10.0 - 30.0% of mass 198	19648	20.5		Pass
365	1.0 - 100.0% of mass 198	2397	2.50		Pass
441	Present, but less than mass 443	6575	6.85	(73.8) [b]	Pass
442	40.0 - 100.0% of mass 198	39203	40.8		Pass
443	17.0 - 23.0% of mass 442	8912	9.28	(22.7) [c]	Pass

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

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4681-ICC4681	P105969.D	07/11/16	09:31	00:54	Initial cal 50
EP4681-IC4681	P105970.D	07/11/16	10:00	01:23	Initial cal 100
EP4681-IC4681	P105976.D	07/11/16	10:29	01:52	Initial cal 1
EP4681-IC4681	P105975.D	07/11/16	10:58	02:21	Initial cal 2
EP4681-IC4681	P105971.D	07/11/16	11:27	02:50	Initial cal 80
EP4681-IC4681	P105972A.D	07/11/16	12:25	03:48	Initial cal 25
EP4681-IC4681	P105973.D	07/11/16	12:57	04:20	Initial cal 10
EP4681-IC4681	P105974.D	07/11/16	13:29	04:52	Initial cal 5

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4682-DFTPP
Lab File ID: P105977.D
Instrument ID: GCMSP
Injection Date: 07/11/16
Injection Time: 15:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	62520	41.0		Pass
68	Less than 2.0% of mass 69	1082	0.71	(1.42) [a]	Pass
69	Mass 69 relative abundance	76442	50.1		Pass
70	Less than 2.0% of mass 69	398	0.26	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	80920	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	152504	100.0		Pass
199	5.0 - 9.0% of mass 198	10247	6.72		Pass
275	10.0 - 30.0% of mass 198	30823	20.2		Pass
365	1.0 - 100.0% of mass 198	3617	2.37		Pass
441	Present, but less than mass 443	10468	6.86	(75.0) [b]	Pass
442	40.0 - 100.0% of mass 198	63599	41.7		Pass
443	17.0 - 23.0% of mass 442	13961	9.15	(22.0) [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
EP4682-IC4682	P105978.D	07/11/16	15:49	00:25	Initial cal 100
EP4682-IC4682	P105979.D	07/11/16	16:22	00:58	Initial cal 80
EP4682-ICC4682	P105980.D	07/11/16	16:51	01:27	Initial cal 50
EP4682-IC4682	P105981.D	07/11/16	17:20	01:56	Initial cal 25
EP4682-IC4682	P105982.D	07/11/16	17:49	02:25	Initial cal 10
EP4682-IC4682	P105983.D	07/11/16	18:18	02:54	Initial cal 5
EP4682-IC4682	P105984.D	07/11/16	18:47	03:23	Initial cal 2
EP4682-IC4682	P105985.D	07/11/16	19:16	03:52	Initial cal 1
EP4682-ICV4681	P105986.D	07/11/16	19:46	04:22	Initial cal verification 50
EP4682-ICV4681	P105987.D	07/11/16	20:15	04:51	Initial cal verification 50
EP4682-ICV4681	P105988.D	07/11/16	20:44	05:20	Initial cal verification 50
EP4682-ICV4682	P105988A.D	07/11/16	20:44	05:20	Initial cal verification 50
EP4682-ICV4681	P105990.D	07/11/16	21:42	06:18	Initial cal verification 50
EP4682-ICV4681	P105991.D	07/11/16	22:11	06:47	Initial cal verification 50
EP4682-ICV4682	P105992.D	07/11/16	22:40	07:16	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4683-DFTPP
Lab File ID: P105997.D
Instrument ID: GCMSP
Injection Date: 07/12/16
Injection Time: 16:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36464	41.0		Pass
68	Less than 2.0% of mass 69	770	0.87	(1.71) [a]	Pass
69	Mass 69 relative abundance	44922	50.5		Pass
70	Less than 2.0% of mass 69	172	0.19	(0.38) [a]	Pass
127	40.0 - 60.0% of mass 198	48794	54.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	88893	100.0		Pass
199	5.0 - 9.0% of mass 198	5860	6.59		Pass
275	10.0 - 30.0% of mass 198	17662	19.9		Pass
365	1.0 - 100.0% of mass 198	2500	2.81		Pass
441	Present, but less than mass 443	6000	6.75	(82.0) [b]	Pass
442	40.0 - 100.0% of mass 198	35880	40.4		Pass
443	17.0 - 23.0% of mass 442	7315	8.23	(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
EP4683-ICV4681	P105998.D	07/12/16	16:43	00:24	Initial cal verification 50
EP4683-ICV4682	P105998A.D	07/12/16	16:43	00:24	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4702-DFTPP
Lab File ID: P106354.D
Instrument ID: GCMSP
Injection Date: 07/26/16
Injection Time: 12:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	41240	33.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	49365	40.1		Pass
70	Less than 2.0% of mass 69	188	0.15	(0.38) [a]	Pass
127	40.0 - 60.0% of mass 198	55532	45.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	123128	100.0		Pass
199	5.0 - 9.0% of mass 198	8414	6.83		Pass
275	10.0 - 30.0% of mass 198	29708	24.1		Pass
365	1.0 - 100.0% of mass 198	3175	2.58		Pass
441	Present, but less than mass 443	11056	8.98	(81.1) [b]	Pass
442	40.0 - 100.0% of mass 198	73240	59.5		Pass
443	17.0 - 23.0% of mass 442	13636	11.1	(18.6) [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
EP4702-CC4681	P106355.D	07/26/16	12:32	00:23	Continuing cal 25
EP4702-CC4682	P106356.D	07/26/16	13:08	00:59	Continuing cal 25
ZZZZZZ	P106358.D	07/26/16	14:36	02:27	(unrelated sample)
JC24488-1	P106359.D	07/26/16	15:10	03:01	(used for QC only; not part of job JC24622)
OP95827A-MB1	P106365.D	07/26/16	15:45	03:36	Method Blank
JC24622-3	P106366.D	07/26/16	16:22	04:13	OSGP14-GWD
ZZZZZZ	P106360.D	07/26/16	16:58	04:49	(unrelated sample)
ZZZZZZ	P106361.D	07/26/16	17:34	05:25	(unrelated sample)
OP95784-MS	P106362.D	07/26/16	18:09	06:00	Matrix Spike
OP95784-MSD	P106363.D	07/26/16	18:43	06:34	Matrix Spike Duplicate
ZZZZZZ	P106364.D	07/26/16	19:13	07:04	(unrelated sample)
OP95825-MB1	P106367.D	07/26/16	19:42	07:33	Method Blank
OP95825-BS1	P106368.D	07/26/16	20:11	08:02	Blank Spike
OP95825-MS	P106369.D	07/26/16	20:40	08:31	Matrix Spike
OP95825-MSD	P106370.D	07/26/16	21:09	09:00	Matrix Spike Duplicate
ZZZZZZ	P106371.D	07/26/16	21:38	09:29	(unrelated sample)
ZZZZZZ	P106372.D	07/26/16	22:07	09:58	(unrelated sample)
ZZZZZZ	P106373.D	07/26/16	22:36	10:27	(unrelated sample)
JC24568-1	P106374.D	07/26/16	23:05	10:56	(used for QC only; not part of job JC24622)

Instrument Performance Check (DFTPP)

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	EP4702-DFTPP	**Injection Date:**	07/26/16
Lab File ID:	P106354.D	**Injection Time:**	12:09
Instrument ID:	GCMSP		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	P106375.D	07/26/16	23:34	11:25	(unrelated sample)
ZZZZZZ	P106376.D	07/27/16	00:03	11:54	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M3002-CC2975	**Injection Date:**	08/01/16
Lab File ID:	3M63367.D	**Injection Time:**	10:43
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	361778	10.14	516496	13.14	818562	17.39	498053	22.00
Upper Limit [a]	723556	10.64	1032992	13.64	1637124	17.89	996106	22.50
Lower Limit [b]	180889	9.64	258248	12.64	409281	16.89	249027	21.50

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95789A-BS12	676044	10.14	878818	13.14	1371936	17.37	884641	22.00
JC24483-1	868119*	10.16	854554	13.14	1017187	17.42	743192	22.07
OP95789A-MS	880654*	10.16	887195	13.16	994677	17.43	958815	22.09
OP95789A-MSD	831390*	10.16	711785	13.16	822511	17.43	772926	22.09
OP95821A-MB1	427979	10.16	585855	13.16	714974	17.42	489779	22.05
ZZZZZZ	461669	10.16	592926	13.16	823644	17.40	481907	22.03
OP95909A-MB1	659316	10.16	855382	13.16	1201451	17.40	686762	22.03
JC24566-1	434183	10.20	653619	13.22	1189348	17.51	1034809*	22.13

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: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M3007-CC2975	**Injection Date:**	08/04/16
Lab File ID:	3M63451.D	**Injection Time:**	12:51
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	357364	10.02	473405	13.00	828418	17.24	678565	21.88
Upper Limit [a]	714728	10.52	946810	13.50	1656836	17.74	1357130	22.38
Lower Limit [b]	178682	9.52	236703	12.50	414209	16.74	339283	21.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
JC24622-4	348006	10.01	455199	13.00	783405	17.24	662732	21.88

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: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3P2524-CC2503	**Injection Date:**	07/26/16
Lab File ID:	3P55256.D	**Injection Time:**	08:55
Instrument ID:	GCMS3P	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	77256	10.86	103616	13.83	159047	18.01	125885	22.57
Upper Limit [a]	154512	11.36	207232	14.33	318094	18.51	251770	23.07
Lower Limit [b]	38628	10.36	51808	13.33	79524	17.51	62943	22.07

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95827A-MB1	70617	10.86	122269	13.83	174933	18.00	131316	22.57
OP95827A-BS12	56705	10.86	114638	13.83	165444	18.00	109382	22.55
OP95827A-MS	64323	10.86	126122	13.83	187029	18.00	124432	22.55
OP95827A-MSD	69373	10.86	141279	13.83	200378	18.00	137707	22.55
JC24622-2	88215	10.86	182808	13.83	250571	18.00	175966	22.55
JC24622-1	76544	10.86	148851	13.83	209454	18.00	148616	22.55
JC24622-3	90966	10.86	174774	13.83	257087	18.00	196795	22.57

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: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3P2534-CC2503	**Injection Date:**	08/02/16
Lab File ID:	3P55401.D	**Injection Time:**	09:07
Instrument ID:	GCMS3P	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	66646	10.77	111093	13.74	168107	17.91	123544	22.48
Upper Limit [a]	133292	11.27	222186	14.24	336214	18.41	247088	22.98
Lower Limit [b]	33323	10.27	55547	13.24	84054	17.41	61772	21.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	58687	10.77	87511	13.74	123527	17.91	93310	22.48
ZZZZZZ	54197	10.77	81138	13.74	123346	17.91	98662	22.48
ZZZZZZ	62780	10.77	94337	13.74	144608	17.91	115426	22.48
ZZZZZZ	55389	10.77	82802	13.74	127721	17.91	106767	22.48
OP95939A-MB1	73226	10.77	116523	13.74	172162	17.91	135242	22.48
OP95939A-BS12 [c]	84499	10.77	134429	13.74	203571	17.91	152660	22.48
ZZZZZZ	76093	10.77	117177	13.74	176774	17.91	136276	22.48
ZZZZZZ	65270	10.77	99899	13.74	138900	17.91	114281	22.48
OP95661A-MS	51406	10.77	80968	13.74	119493	17.91	93444	22.48
OP95661A-MSD	53427	10.77	87890	13.74	129846	17.91	100173	22.48
OP95821A-MB1	92943	10.77	146213	13.74	209158	17.91	164232	22.48
OP95821A-BS12	86698	10.77	140144	13.74	206236	17.91	155549	22.48
OP95821A-MS	48865	10.77	75993	13.74	117429	17.91	84086	22.48
OP95821A-MSD	74835	10.77	114730	13.74	179725	17.91	133570	22.48
JC24549-20	85664	10.77	131743	13.74	203173	17.91	157193	22.48
ZZZZZZ	80529	10.77	121952	13.74	178001	17.91	150445	22.48
ZZZZZZ	73522	10.77	119649	13.74	172165	17.91	141301	22.48
ZZZZZZ	73494	10.77	75148	13.74	133562	17.92	107589	22.48

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) low for full list

Semivolatile Internal Standard Area Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E4M3036-CC3032	**Injection Date:**	08/05/16
Lab File ID:	4M67180A.D	**Injection Time:**	10:06
Instrument ID:	GCMS4M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	85370	10.59	148400	13.56	188322	17.72	161076	22.31
Upper Limit [a]	170740	11.09	296800	14.06	376644	18.22	322152	22.81
Lower Limit [b]	42685	10.09	74200	13.06	94161	17.22	80538	21.81

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95661A-MB1	56047	10.59	153834	13.56	192352	17.72	144248	22.31
OP95848A-BS12	62966	10.59	110976	13.56	135289	17.72	113312	22.31
ZZZZZZ	71183	10.59	130645	13.56	127081	17.74	101360	22.32
ZZZZZZ	97786	10.59	163749	13.56	207951	17.74	162553	22.31
OP95821A-MB1	70824	10.59	126011	13.56	156586	17.74	130952	22.31
ZZZZZZ	83749	10.59	140830	13.56	179182	17.74	136189	22.32

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: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EP4702-CC4681	**Injection Date:**	07/26/16
Lab File ID:	P106355.D	**Injection Time:**	12:32
Instrument ID:	GCMSP	**Method:**	SW846 8270D BY SIM

	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	134146	4.42	475737	5.34	296703	6.68	540818	8.43	550356	13.56	507140	16.58
Upper Limit [a]	268292	4.92	951474	5.84	593406	7.18	1081636	8.93	1100712	14.06	1014280	17.08
Lower Limit [b]	67073	3.92	237869	4.84	148352	6.18	270409	7.93	275178	13.06	253570	16.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	138218	4.42	493769	5.34	306888	6.67	553305	8.43	555324	13.55	509486	16.58
JC24488-1	138653	4.42	489680	5.34	296941	6.67	522552	8.42	554368	13.55	534554	16.58
OP95827A-MB1	191399	4.42	674727	5.34	415127	6.67	734142	8.42	714138	13.55	670565	16.58
JC24622-3	158518	4.42	556232	5.34	343157	6.67	602546	8.42	587836	13.55	546312	16.57
ZZZZZZ	116796	4.43	447171	5.35	288738	6.68	510049	8.43	518172	13.56	465777	16.59
ZZZZZZ	143275	4.42	495422	5.34	317109	6.67	561719	8.43	525853	13.56	459490	16.59
OP95784-MS	163384	4.42	554132	5.34	345325	6.68	592714	8.43	586640	13.57	526740	16.59
OP95784-MSD	157729	4.42	541485	5.34	334562	6.68	580629	8.43	565190	13.56	505181	16.58
ZZZZZZ	141765	4.42	466447	5.34	296639	6.68	515249	8.44	551745	13.56	497506	16.59
OP95825-MB1	147638	4.42	515484	5.34	310898	6.67	550397	8.42	544971	13.55	492977	16.58
OP95825-BS1	148850	4.42	509767	5.34	300975	6.67	533318	8.43	512457	13.56	482752	16.58
OP95825-MS	146948	4.42	496212	5.34	303370	6.67	523510	8.43	502242	13.56	474576	16.58
OP95825-MSD	142931	4.42	484105	5.34	295182	6.67	512949	8.43	495823	13.56	476299	16.58
ZZZZZZ	155226	4.42	547112	5.34	331759	6.67	573864	8.42	562563	13.55	509743	16.58
ZZZZZZ	155118	4.42	549163	5.34	332004	6.67	587564	8.42	582077	13.55	527238	16.57
ZZZZZZ	147677	4.42	513937	5.34	314166	6.67	546138	8.42	539028	13.55	491554	16.57
JC24568-1	150750	4.42	525262	5.34	320965	6.67	556056	8.42	549369	13.55	512395	16.58
ZZZZZZ	142886	4.42	497474	5.34	305069	6.67	529874	8.42	528122	13.55	479479	16.57
ZZZZZZ	147083	4.42	510826	5.34	315456	6.67	551681	8.42	539578	13.55	493263	16.57

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: JC24622
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
JC24622-1	3P55262.D	74	51	46
JC24622-2	3P55261.D	73	46	43
JC24622-3	P106366.D	63	73	61
JC24622-3	3P55263.D	70	46	38
JC24622-4	3M63452.D	59	70	71
OP95821A-BS12	3P55411.D	78	58	64
OP95821A-MB1	3M63373.D	65	63	80
OP95821A-MB1	3P55410.D	65	51	64
OP95821A-MB1	4M67187.D	66	76	84
OP95821A-MS	3P55412.D	64	58	58
OP95821A-MSD	3P55413.D	65	59	54
OP95827A-BS12	3P55258.D	101	64	63
OP95827A-MB1	P106365.D	59	64	64
OP95827A-MB1	3P55257.D	85	56	59
OP95827A-MS	3P55259.D	79	55	40
OP95827A-MSD	3P55260.D	77	51	38

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

Initial Calibration Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2975-ICC2975
Lab FileID: 3M62957.D

Response Factor Report MS3M

```
Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration

Calibration Files
2.5 =3m62956.D   1.0 =3m62957.D   0.5 =3m62958.D   0.2 =3m62950.D
0.1 =3m62951.D   0.05=3m62952.D   0.02=3m62953.D   0.01=3m62954.D
5   =3m62955.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
          0.206 0.209 0.206 0.254 0.223                   0.222        0.220    8.37
3)  2-Fluorophenol
          0.556 0.545 0.556 0.613 0.528 0.530             0.570        0.557    5.22
4)  Phenol-d5
          0.814 0.829 0.838 0.921 0.784 0.774             0.803        0.823    5.91
5)  Phenol
          0.871 0.876 0.885 0.961 0.846 0.827 0.766       0.841        0.859    6.46
6)  bis(2-Chloroethyl)ether
          0.671 0.670 0.670 0.729 0.643 0.630 0.565 0.474 0.671        0.636   11.73
7)  Nitrobenzene-d5
          0.738 0.775 0.770 0.886 0.741 0.687             0.816        0.773    8.20
8)  Nitrobenzene
          0.882 0.795 0.783 0.932 0.809 0.723 0.638 0.603 0.879        0.783   14.23
9)  Naphthalene
          2.372 2.302 2.347 2.569 2.272 2.279 2.298 2.232 2.388        2.340    4.24
10)  Hexachlorobutadiene
          0.413 0.423 0.435 0.441 0.405 0.409 0.408 0.413 0.423        0.419    3.01
11)  2-Methylnaphthalene
          1.226 1.198 1.211 1.325 1.076 1.318             1.215        1.224    6.83
12)  1-Methylnaphthalene
          1.334 1.336 1.392 1.355 1.231 1.307 1.353 1.370 1.342        1.336    3.44
13)  Hexachlorocyclopentadiene
          0.435 0.334 0.285 0.325 0.191                   0.483        0.342   30.64
           ---- Quadratic regression ----  Coefficient =  0.9993
             Response Ratio = -0.01716 + 0.38446 *A + 0.04274 *A^2


14) I   Fluorene-d10          ----------------ISTD---------------------
15)  2-Fluorobiphenyl
          0.805 1.050 1.192 1.260 1.143 1.171 1.128 1.085 0.936        1.086   12.90
16)  Acenaphthylene
          1.372 1.366 1.386 1.449 1.257 1.252 1.193       1.333        1.326    6.39
17)  Acenaphthene
          0.864 0.881 0.917 0.976 0.842 0.848 0.816 0.796 0.834        0.864    6.37
18)  4,6-dinitro-2-methylphenol
          0.180 0.145 0.112 0.091 0.050 0.056                          0.106   48.11
           ---- Quadratic regression ----  Coefficient =  0.9996
             Response Ratio = -0.00884 + 0.12555 *A + 0.01830 *A^2

19)  Fluorene
          0.928 0.959 1.011 1.062 0.950 0.960 0.959       0.913        0.968    4.91
20)  2,4,6-Tribromophenol
```

Initial Calibration Summary

Job Number: JC24622 **Sample:** E3M2975-ICC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62957.D
Project: BMSMC, Building 5 Area, PR

```
          0.151 0.170 0.173 0.174                        0.168        0.167    5.61

21) I   Fluoranthene-d10      ----------------ISTD---------------------
22)  Hexachlorobenzene
          0.214 0.226 0.232 0.223 0.205 0.204 0.213 0.202 0.208        0.214    5.07
23)  Pentachlorophenol
          0.104 0.082 0.063 0.082 0.036 0.040            0.118        0.075   40.84
           ---- Quadratic regression ----  Coefficient =  0.9994
             Response Ratio = -0.00759 + 0.08784 *A + 0.00508 *A^2

24)  Phenanthrene
          0.919 0.963 0.942 0.909 0.782 0.766            0.916        0.885    8.85
25)  Anthracene
          0.914 0.881 0.850 0.800 0.662                  0.906        0.835   11.32
26)  Fluoranthene
          1.099 1.113 1.143 1.121 1.016 1.087            1.076        1.094    3.73
27)  Pyrene
          1.115 1.084 1.065 1.072 0.912 0.884            1.095        1.032    9.07
28)  Terphenyl-d14
          0.583 0.643 0.665 0.656 0.574                  0.543        0.610    8.26
29)  Benzo[a]anthracene
          0.940 0.890 0.842 0.936 0.744 0.689            0.972        0.859   12.45
30)  Chrysene
          0.934 0.957 0.922 0.963 0.794 0.852            0.931        0.907    6.84

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
          1.363 1.333 1.313 1.347 1.114                  1.331        1.300    7.14
33)  Benzo[k]fluoranthene
          1.165 1.305 1.285 1.193 0.942                  1.193        1.180   10.98
34)  Benzo[a]pyrene
          1.171 1.209 1.284 1.210 1.084 1.245            1.159        1.195    5.41
35)  Indeno[1,2,3-cd]pyrene
          1.277 1.256 1.216 1.243 1.000                  1.316        1.218    9.19
36)  Dibenz[a,h]anthracene
          1.073 1.054 1.015 1.018 0.813                  1.101        1.012   10.17
37)  Benzo[g,h,i]perylene
          1.126 1.161 1.161 1.142 0.991                  1.066        1.108    6.06
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3M2975SIM.M        Fri Jul 15 17:12:37 2016   RPT1
```

Initial Calibration Verification

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2976-ICV2975
Lab FileID: 3M62962.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2976\3m62962.D          Vial: 2
Acq On    : 14 Jul 2016   5:18 pm                    Operator: ashleyd
Sample    : icv2975-1.0                              Inst    : MS3M
Misc      : op95160a,e3m2976                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jul 14 15:32:15 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	143	-0.02	10.28
5	Phenol	0.859	0.717	16.5	117	-0.01	5.92
	----------	AvgRF	CCRF	% Dev	----------		
14 I	Fluorene-d10	1.000	1.000	0.0	109	-0.02	13.26
	----------	True	Calc.	% Drift	----------		
18 t	4,6-dinitro-2-methylpheno	5.000	4.487	10.3	93	-0.02	13.48
	----------	AvgRF	CCRF	% Dev	----------		
21 I	Fluoranthene-d10	1.000	1.000	0.0	118	-0.02	17.46
	----------	True	Calc.	% Drift	----------		
23 t	Pentachlorophenol	5.000	5.892	-17.8	152	-0.02	14.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62957.D M3M2975SIM.M Fri Jul 15 17:12:25 2016 RPT1

Initial Calibration Verification

Job Number: JC24622 **Sample:** E3M2976-ICV2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62963.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2976\3m62963.D          Vial: 3
Acq On    : 14 Jul 2016   5:51 pm                    Operator: ashleyd
Sample    : icv2975-1.0                              Inst    : MS3M
Misc      : op95160a,e3m2976                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jul 14 15:32:15 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	132	-0.02	10.28
2	t	1,4-dioxane	0.220	0.182	17.3	115	0.02	2.10
6	t	bis(2-Chloroethyl)ether	0.636	0.662	-4.1	130	-0.01	5.99
8	t	Nitrobenzene	0.783	0.626	20.1	104	0.00	7.45
9	t	Naphthalene	2.340	1.953	16.5	112	0.00	8.80
10	t	Hexachlorobutadiene	0.419	0.420	-0.2	131	-0.02	9.10
11	t	2-Methylnaphthalene	1.224	1.214	0.8	133	-0.02	10.16
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.701	29.9	82	0.00	10.53
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	101	-0.02	13.26
16	t	Acenaphthylene	1.326	1.652	-24.6	122	-0.02	11.92
17	t	Acenaphthene	0.864	1.092	-26.4	125	-0.02	12.27
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.276	-31.8#	135	-0.02	13.31
21	I	Fluoranthene-d10	1.000	1.000	0.0	106	-0.02	17.46
22	t	Hexachlorobenzene	0.214	0.252	-17.8	118	-0.02	14.42
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	1.094	-23.6	120	-0.02	15.21
25	t	Anthracene	0.835	0.967	-15.8	116	0.00	15.32
26	t	Fluoranthene	1.094	1.288	-17.7	122	-0.02	17.49
27	t	Pyrene	1.032	1.278	-23.8	125	-0.02	17.88
29	t	Benzo[a]anthracene	0.859	1.107	-28.9	131	-0.02	19.98
30	t	Chrysene	0.907	1.055	-16.3	116	-0.02	20.03
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	103	-0.02	22.05
32	t	Benzo[b]fluoranthene	1.300	1.476	-13.5	114	-0.02	21.64
33	t	Benzo[k]fluoranthene	1.180	1.400	-18.6	111	-0.02	21.68
34	t	Benzo[a]pyrene	1.195	1.365	-14.2	116	-0.02	22.09
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.427	-17.2	117	-0.02	23.54
36	t	Dibenz[a,h]anthracene	1.012	1.126	-11.3	110	-0.02	23.58
37	t	Benzo[g,h,i]perylene	1.108	1.249	-12.7	111	-0.02	23.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Initial Calibration Verification

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2976-ICV2975
Lab FileID: 3M62963.D

```
3m62957.D  M3M2975SIM.M       Fri Jul 15 17:12:27 2016   RPT1
```

Continuing Calibration Summary

Job Number: JC24622 **Sample:** E3M3002-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63367.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M3002\3m63367.D          Vial: 2
Acq On    :  1 Aug 2016  10:43 am                    Operator: shaniceg
Sample    : cc2975-.5                                Inst    : MS3M
Misc      : op95160a,e3m3002                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Aug 02 08:23:04 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	157	-0.08	10.14
2	t	1,4-dioxane	0.220	0.254	-15.5	193	0.00	1.96
3	S	2-Fluorophenol	0.557	0.444	20.3#	125	-0.11	4.17
4	S	Phenol-d5	0.823	0.682	17.1	128	-0.09	5.78
5		Phenol	0.859	0.779	9.3	138	-0.09	5.79
6	t	bis(2-Chloroethyl)ether	0.636	0.540	15.1	126	-0.07	5.84
7	S	Nitrobenzene-d5	0.773	0.789	-2.1	161	-0.11	7.26
8	t	Nitrobenzene	0.783	0.866	-10.6	173	-0.09	7.30
9	t	Naphthalene	2.340	2.112	9.7	141	-0.08	8.65
10	t	Hexachlorobutadiene	0.419	0.368	12.2	133	-0.10	8.95
11	t	2-Methylnaphthalene	1.224	1.154	5.7	149	-0.06	10.04
12	t	1-Methylnaphthalene	1.336	1.243	7.0	140	-0.06	10.22
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.329	67.1#	32	-0.06	10.38
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	144	0.00	13.14
15	S	2-Fluorobiphenyl	1.086	1.115	-2.7	135	-0.06	10.81
16	t	Acenaphthylene	1.326	1.615	-21.8#	168	-0.02	11.79
17	t	Acenaphthene	0.864	0.967	-11.9	152	-0.02	12.15
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	1.098	56.1#	55	0.06	13.43
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.121	-15.8	160	0.00	13.20
20	S	2,4,6-Tribromophenol	0.167	0.132	21.0#	110	0.00	13.71
21	I	Fluoranthene-d10	1.000	1.000	0.0	144	-0.03	17.39
22	t	Hexachlorobenzene	0.214	0.198	7.5	122	-0.07	14.31
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	1.752	29.9#	116	-0.04	14.78
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	0.993	-12.2	151	-0.07	15.10
25	t	Anthracene	0.835	1.043	-24.9#	176	-0.05	15.21
26	t	Fluoranthene	1.094	1.177	-7.6	148	-0.05	17.40
27	t	Pyrene	1.032	1.198	-16.1	162	-0.03	17.80
28	S	Terphenyl-d14	0.610	0.613	-0.5	132	-0.06	18.19

Continuing Calibration Summary

Job Number: JC24622 **Sample:** E3M3002-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63367.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.859	0.876	-2.0	149	-0.05	19.91
30	t	Chrysene	0.907	0.976	-7.6	152	-0.05	19.97
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	109	-0.08	22.00
32	t	Benzo[b]fluoranthene	1.300	1.464	-12.6	122	-0.06	21.58
33	t	Benzo[k]fluoranthene	1.180	1.260	-6.8	107	-0.06	21.62
34	t	Benzo[a]pyrene	1.195	1.277	-6.9	108	-0.07	22.03
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.328	-9.0	119	-0.07	23.48
36	t	Dibenz[a,h]anthracene	1.012	1.081	-6.8	116	-0.07	23.52
37	t	Benzo[g,h,i]perylene	1.108	1.147	-3.5	108	-0.07	23.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62958.D M3M2975SIM.M Tue Aug 02 08:35:44 2016 RPT1

Continuing Calibration Summary

Job Number: JC24622 **Sample:** E3M3007-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63451.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M3007\3m63451.D          Vial: 2
Acq On    :  4 Aug 2016  12:51 pm                     Operator: shaniceg
Sample    : CC2975-1                                  Inst    : MS3M
Misc      : op95160a,e3m3007                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Aug 04 12:44:35 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	157	0.00	10.02
2	t	1,4-dioxane	0.220	0.209	5.0	156	-0.05	1.87
3	S	2-Fluorophenol	0.557	0.403	27.6#	116	-0.13	4.06
4	S	Phenol-d5	0.823	0.668	18.8	126	-0.08	5.67
5		Phenol	0.859	0.705	17.9	126	-0.06	5.70
6	t	bis(2-Chloroethyl)ether		----------NA----------				
7	S	Nitrobenzene-d5	0.773	0.636	17.7	129	-0.08	7.15
8	t	Nitrobenzene	0.783	0.752	4.0	148	-0.06	7.18
9	t	Naphthalene	2.340	1.935	17.3	132	-0.04	8.52
10	t	Hexachlorobutadiene	0.419	0.346	17.4	128	-0.05	8.82
11	t	2-Methylnaphthalene	1.224	1.078	11.9	141	0.00	9.89
12	t	1-Methylnaphthalene	1.336	1.253	6.2	147	0.00	10.08
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	2.000	0.557	72.2#	35	0.00	10.24
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	127	-0.02	13.00
15	S	2-Fluorobiphenyl	1.086	1.035	4.7	125	-0.07	10.69
16	t	Acenaphthylene	1.326	1.574	-18.7	146	-0.03	11.67
17	t	Acenaphthene	0.864	0.996	-15.3	143	-0.02	12.02
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	4.038	19.2	96	0.04	13.28
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.133	-17.0	150	-0.02	13.05
20	S	2,4,6-Tribromophenol	0.167	0.162	3.0	120	0.00	13.56
21	I	Fluoranthene-d10	1.000	1.000	0.0	144	0.00	17.24
22	t	Hexachlorobenzene	0.214	0.193	9.8	123	-0.07	14.17
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	3.699	26.0#	109	-0.03	14.63
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	0.879	0.7	132	0.00	14.96
25	t	Anthracene	0.835	0.838	-0.4	137	0.00	15.06
26	t	Fluoranthene	1.094	1.100	-0.5	143	0.00	17.27
27	t	Pyrene	1.032	1.139	-10.4	152	0.02	17.68
28	S	Terphenyl-d14	0.610	0.601	1.5	135	0.01	18.08

Continuing Calibration Summary

Job Number: JC24622 **Sample:** E3M3007-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63451.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.859	0.899	-4.7	146	0.02	19.78
30	t	Chrysene	0.907	1.114	-22.8#	168	0.02	19.84
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	146	0.00	21.88
32	t	Benzo[b]fluoranthene	1.300	1.617	-24.4#	177	0.02	21.47
33	t	Benzo[k]fluoranthene	1.180	0.754	36.1#	84	0.02	21.50
34	t	Benzo[a]pyrene	1.195	1.129	5.5	136	0.00	21.92
35	t	Indeno[1,2,3-cd]pyrene	1.218	0.900	26.1#	104	0.00	23.35
36	t	Dibenz[a,h]anthracene	1.012	0.740	26.9#	102	0.00	23.38
37	t	Benzo[g,h,i]perylene	1.108	0.759	31.5#	95	0.00	23.68

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62957.D M3M2975SIM.M Thu Aug 04 14:37:08 2016 RPT1

Initial Calibration Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2503-ICC2503
Lab FileID: 3P54955.D

Response Factor Report MSGC3P

Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Calibration Files
2.5 =3p54962.D 1.0 =3p54955.D 0.5 =3p54963.D 0.2 =3p54960.D
0.1 =3p54959.D 0.05=3p54958.D 0.02=3p54957.D 0.01=3p54956.D
5 =3p54961.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	0.382	0.421	0.347	0.441	0.420				0.405	0.403	8.35
3) 2-Fluorophenol	0.512	0.597	0.571	0.766	0.707	0.723				0.646	15.53
4) Phenol-d5	0.671	0.755	0.766	1.020	0.970	1.006				0.864	17.51
5) Phenol	0.597	0.667	0.679	0.971	0.963	1.027	1.074			0.854	23.21
---- Quadratic regression ---- Coefficient = 0.9989											
Response Ratio = 0.03088 + 0.67965 *A + -0.02976 *A^2											
6) bis(2-Chloroethyl)ether	0.595	0.584	0.579	0.764	0.755	0.802	0.872	0.860	0.606	0.713	17.12
7) Nitrobenzene-d5	0.561	0.604	0.634	0.771	0.716	0.746			0.520	0.650	14.77
8) Nitrobenzene	0.583	0.612	0.655	0.921	0.836					0.722	20.62
9) Naphthalene	2.445	2.304	2.285	2.831	2.717	2.851	2.919	2.937	2.376	2.629	10.40
10) Hexachlorobutadiene	0.390	0.364	0.376	0.476	0.467	0.513	0.590		0.386	0.445	18.00
11) 2-Methylnaphthalene	1.325	1.190	1.285	1.636	1.411	1.822			1.232	1.414	16.42
12) 1-Methylnaphthalene	1.114	1.016	1.011	1.212	1.094	1.106	1.120	1.252	1.082	1.112	7.14
13) Hexachlorocyclopentadiene	0.312	0.265	0.221	0.205	0.169				0.354	0.254	27.34
---- Quadratic regression ---- Coefficient = 0.9999											
Response Ratio = -0.00964 + 0.27470 *A + 0.03325 *A^2											
14) I Fluorene-d10 ----------ISTD----------											
15) 2-Fluorobiphenyl	0.634	0.835	0.922	1.138	1.054	1.090	1.125	1.076		0.984	17.87
16) Acenaphthylene	1.420	1.327	1.446	1.509	1.319	1.483	1.399		1.385	1.411	4.83
17) Acenaphthene	0.817	0.847	0.879	0.964	0.894	0.943	0.936	0.995	0.767	0.893	8.29
18) 4,6-dinitro-2-methylphenol	0.098	0.061	0.050	0.048	0.028				0.133	0.070	55.52
---- Quadratic regression ---- Coefficient = 0.9996											
Response Ratio = -0.00883 + 0.06278 *A + 0.01142 *A^2											

Initial Calibration Summary

Job Number: JC24622 **Sample:** E3P2503-ICC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P54955.D
Project: BMSMC, Building 5 Area, PR

```
19)  Fluorene
           0.866 0.861 0.833 0.910 0.796 0.798 0.802 0.853 0.867        0.843    4.59
20)  2,4,6-Tribromophenol
           0.125 0.137 0.133 0.137                          0.094        0.125   14.44

21) I   Fluoranthene-d10      ----------------ISTD---------------------
22)  Hexachlorobenzene
           0.203 0.202 0.221 0.247 0.224 0.235 0.240 0.228 0.186        0.221    9.09
23)  Pentachlorophenol
           0.105 0.098 0.082 0.079 0.056 0.075              0.105        0.086   20.82
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.00724 + 0.10562 *A + 0.00018 *A^2

24)  Phenanthrene
           0.855 0.868 0.995 1.053 0.966 1.018              0.761        0.931   11.30
25)  Anthracene
           0.735 0.782 0.826 0.903 0.843                    0.683        0.795    9.94
26)  Fluoranthene
           0.821 0.806 0.804 0.870 0.783 0.780              0.764        0.804    4.34
27)  Pyrene
           0.923 0.898 0.911 0.963 0.857 0.889              0.850        0.899    4.33
28)  Terphenyl-d14
           0.344 0.439 0.505 0.617 0.587 0.612 0.583                     0.527   19.59
29)  Benzo[a]anthracene
           0.782 0.771 0.749 0.733 0.681 0.748              0.780        0.749    4.68
30)  Chrysene
           0.784 0.822 0.890 0.938 0.897 0.956              0.704        0.856   10.55

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
           1.410 1.284 1.328 1.277 1.221                    1.432        1.325    6.18
33)  Benzo[k]fluoranthene
           1.087 1.132 1.094 1.209 1.120                    1.055        1.116    4.73
34)  Benzo[a]pyrene
           0.999 0.994 0.935 1.109 1.078 1.181              1.019        1.045    7.94
35)  Indeno[1,2,3-cd]pyrene
           1.205 1.212 1.091 1.167 1.023                    1.217        1.153    6.85
36)  Dibenz[a,h]anthracene
           0.842 0.986 0.877 0.931 0.811                    0.875        0.887    7.08
37)  Benzo[g,h,i]perylene
           1.109 1.136 1.109 1.217 1.130                    1.106        1.134    3.74
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3P2503SIM.M        Mon Jul 11 10:10:21 2016
```

Initial Calibration Verification

Job Number: JC24622 **Sample:** E3P2503-ICV2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P54964.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2503\3p54964.D          Vial: 11
Acq On    :  6 Jul 2016   5:37 pm                    Operator: hankc
Sample    : icv2503-1.0                              Inst    : MSGC3P
Misc      : op95179a,e3p2503                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 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	96	0.00	11.10
2	t	1,4-dioxane	0.403	0.317	21.3	72	-0.02	2.74
		----------	AvgRF	CCRF	% Dev	----------		
6	t	bis(2-Chloroethyl)ether	0.713	0.945	-32.5#	155	-0.01	6.76
8	t	Nitrobenzene	0.722	0.849	-17.6	133	0.00	8.24
9	t	Naphthalene	2.629	2.847	-8.3	118	0.00	9.62
10	t	Hexachlorobutadiene	0.445	0.463	-4.0	122	0.00	9.92
11	t	2-Methylnaphthalene	1.414	1.410	0.3	113	0.00	10.98
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.902	9.8	78	0.00	11.35
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	88	0.00	14.09
16	t	Acenaphthylene	1.411	1.697	-20.3	113	0.00	12.75
17	t	Acenaphthene	0.893	1.076	-20.5	112	0.00	13.11
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.843	1.061	-25.9	109	0.00	14.15
21	I	Fluoranthene-d10	1.000	1.000	0.0	81	0.00	18.26
22	t	Hexachlorobenzene	0.221	0.270	-22.2	109	0.00	15.26
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.931	1.167	-25.3	109	0.00	16.05
25	t	Anthracene	0.795	0.945	-18.9	98	0.00	16.15
26	t	Fluoranthene	0.804	1.037	-29.0	105	0.00	18.29
27	t	Pyrene	0.899	1.100	-22.4	100	0.00	18.67
29	t	Benzo[a]anthracene	0.749	0.986	-31.6#	104	0.00	20.74
30	t	Chrysene	0.856	0.887	-3.6	88	0.00	20.79
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	69	0.04	22.83
32	t	Benzo[b]fluoranthene	1.325	1.552	-17.1	83	0.00	22.40
33	t	Benzo[k]fluoranthene	1.116	1.529	-37.0#	93	0.00	22.44
34	t	Benzo[a]pyrene	1.045	1.292	-23.6	89	0.00	22.85
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.406	-21.9	79	0.00	24.45
36	t	Dibenz[a,h]anthracene	0.887	1.101	-24.1	77	0.00	24.49
37	t	Benzo[g,h,i]perylene	1.134	1.388	-22.4	84	0.00	24.88

Initial Calibration Verification

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2503-ICV2503
Lab FileID: 3P54964.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 3p54955.D  M3P2503SIM.M       Mon Jul 11 10:10:11 2016
```

Initial Calibration Verification

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2503-ICV2503
Lab FileID: 3P54965.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2503\3p54965.D          Vial: 12
Acq On    :  6 Jul 2016   6:08 pm                     Operator: hankc
Sample    : icv2503-1.0                               Inst    : MSGC3P
Misc      : op95179a,e3p2503                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 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	99	0.00	11.10
	----------	True	Calc.	% Drift	----------		
5	Phenol	5.000	6.972	-39.4#	133	-0.01	6.61
	----------	AvgRF	CCRF	% Dev	----------		
14 I	Fluorene-d10	1.000	1.000	0.0	87	0.00	14.09
	----------	True	Calc.	% Drift	----------		
18 t	4,6-dinitro-2-methylpheno	5.000	3.887	22.3	72	-0.02	14.28
	----------	AvgRF	CCRF	% Dev	----------		
21 I	Fluoranthene-d10	1.000	1.000	0.0	79	0.00	18.26
	----------	True	Calc.	% Drift	----------		
23 t	Pentachlorophenol	5.000	4.412	11.8	71	0.00	15.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54955.D M3P2503SIM.M Mon Jul 11 10:10:13 2016

Continuing Calibration Summary

Job Number: JC24622 **Sample:** E3P2524-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55256.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2524\3p55256.D          Vial: 2
Acq On    : 26 Jul 2016   8:55 am                    Operator: ashleyn
Sample    : cc2503-0.5                               Inst    : MSGC3P
Misc      : op95775a,e3p2524                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 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	95	0.00	10.86
2	t	1,4-dioxane	0.403	0.464	-15.1	127	0.00	2.57
3	S	2-Fluorophenol	0.646	0.656	-1.5	109	-0.09	4.84
4	S	Phenol-d5	0.864	0.846	2.1	105	-0.05	6.41
		----------	True	Calc.	% Drift	----------		
5		Phenol	2.500	2.760	-10.4	109	-0.06	6.42
		----------	AvgRF	CCRF	% Dev	----------		
6	t	bis(2-Chloroethyl)ether	0.713	0.702	1.5	115	0.00	6.55
7	S	Nitrobenzene-d5	0.650	0.749	-15.2	112	-0.04	7.98
8	t	Nitrobenzene	0.722	0.777	-7.6	113	-0.04	8.02
9	t	Naphthalene	2.629	2.543	3.3	106	-0.03	9.37
10	t	Hexachlorobutadiene	0.445	0.378	15.1	96	-0.02	9.68
11	t	2-Methylnaphthalene	1.414	1.317	6.9	98	0.00	10.73
12	t	1-Methylnaphthalene	1.112	1.094	1.6	103	0.00	10.92
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.980	2.0	103	0.00	11.10
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	90	-0.02	13.83
15	S	2-Fluorobiphenyl	0.984	1.073	-9.0	104	-0.04	11.51
16	t	Acenaphthylene	1.411	1.429	-1.3	89	-0.03	12.50
17	t	Acenaphthene	0.893	1.048	-17.4	107	-0.02	12.86
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	3.422	-36.9#	154	-0.02	14.04
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.843	1.009	-19.7	108	-0.02	13.89
20	S	2,4,6-Tribromophenol	0.125	0.160	-28.0#	108	0.00	14.38
21	I	Fluoranthene-d10	1.000	1.000	0.0	91	-0.02	18.01
22	t	Hexachlorobenzene	0.221	0.246	-11.3	101	-0.07	15.00
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	2.599	-4.0	108	-0.06	15.41
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.931	1.091	-17.2	99	-0.06	15.78

Continuing Calibration Summary

Job Number: JC24622 **Sample:** E3P2524-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55256.D
Project: BMSMC, Building 5 Area, PR

25	t	Anthracene	0.795	0.858	-7.9	94	-0.06	15.89
26	t	Fluoranthene	0.804	0.910	-13.2	103	-0.03	18.03
27	t	Pyrene	0.899	1.002	-11.5	100	-0.01	18.43
28	S	Terphenyl-d14	0.527	0.553	-4.9	99	0.00	18.78
29	t	Benzo[a]anthracene	0.749	0.861	-15.0	104	-0.02	20.48
30	t	Chrysene	0.856	1.012	-18.2	103	0.00	20.54
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	100	-0.02	22.57
32	t	Benzo[b]fluoranthene	1.325	1.339	-1.1	101	0.00	22.15
33	t	Benzo[k]fluoranthene	1.116	1.089	2.4	99	-0.03	22.18
34	t	Benzo[a]pyrene	1.045	0.866	17.1	92	-0.02	22.59
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.293	-12.1	118	-0.06	24.13
36	t	Dibenz[a,h]anthracene	0.887	1.029	-16.0	117	-0.06	24.17
37	t	Benzo[g,h,i]perylene	1.134	1.143	-0.8	103	-0.09	24.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54963.D M3P2503SIM.M Tue Jul 26 16:30:59 2016

6.7.9

6

Continuing Calibration Summary

Job Number: JC24622 **Sample:** E3P2534-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55401.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2534\3p55401.D          Vial: 2
Acq On    :  2 Aug 2016   9:07 am                    Operator: ashleyd
Sample    : cc2503-1                                 Inst    : MSGC3P
Misc      : op95837a,e3p2534                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 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	122	0.00	10.77
2	t	1,4-dioxane	0.403	0.482	-19.6	140	-0.06	2.49
3	S	2-Fluorophenol	0.646	0.656	-1.5	135	-0.13	4.76
4	S	Phenol-d5	0.864	0.841	2.7	136	-0.08	6.33
		----------	True	Calc.	% Drift	----------		
5		Phenol	5.000	5.707	-14.1	138	-0.08	6.35
		----------	AvgRF	CCRF	% Dev	----------		
6	t	bis(2-Chloroethyl)ether	0.713	0.677	5.0	142	0.00	6.46
7	S	Nitrobenzene-d5	0.650	0.714	-9.8	145	-0.06	7.89
8	t	Nitrobenzene	0.722	0.688	4.7	138	-0.08	7.91
9	t	Naphthalene	2.629	2.443	7.1	130	-0.04	9.29
10	t	Hexachlorobutadiene	0.445	0.402	9.7	135	-0.03	9.59
11	t	2-Methylnaphthalene	1.414	1.156	18.2	119	0.00	10.65
12	t	1-Methylnaphthalene	1.112	1.152	-3.6	139	-0.01	10.82
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	2.000	1.665	16.8	102	0.00	11.01
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	134	0.00	13.74
15	S	2-Fluorobiphenyl	0.984	0.859	12.7	138	-0.05	11.41
16	t	Acenaphthylene	1.411	1.122	20.5#	114	-0.04	12.39
17	t	Acenaphthene	0.893	0.944	-5.7	150	-0.02	12.76
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	6.294	-25.9#	207	0.00	13.95
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.843	0.814	3.4	127	0.00	13.80
20	S	2,4,6-Tribromophenol	0.125	0.134	-7.2	132	0.01	14.29
21	I	Fluoranthene-d10	1.000	1.000	0.0	129	0.00	17.91
22	t	Hexachlorobenzene	0.221	0.205	7.2	131	-0.06	14.91
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	4.481	10.4	118	-0.05	15.32
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.931	0.931	0.0	139	0.00	15.68

Continuing Calibration Summary

Job Number: JC24622 **Sample:** E3P2534-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55401.D
Project: BMSMC, Building 5 Area, PR

25	t	Anthracene	0.795	0.757	4.8	125	0.00	15.79
26	t	Fluoranthene	0.804	0.822	-2.2	132	0.00	17.94
27	t	Pyrene	0.899	0.924	-2.8	133	0.00	18.32
28	S	Terphenyl-d14	0.527	0.447	15.2	132	0.03	18.69
29	t	Benzo[a]anthracene	0.749	0.837	-11.7	140	0.00	20.39
30	t	Chrysene	0.856	0.807	5.7	127	0.00	20.45
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	128	0.00	22.48
32	t	Benzo[b]fluoranthene	1.325	1.299	2.0	130	0.00	22.06
33	t	Benzo[k]fluoranthene	1.116	1.044	6.5	118	0.00	22.09
34	t	Benzo[a]pyrene	1.045	0.870	16.7	112	0.00	22.50
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.201	-4.2	127	-0.05	24.02
36	t	Dibenz[a,h]anthracene	0.887	0.935	-5.4	121	-0.05	24.06
37	t	Benzo[g,h,i]perylene	1.134	1.049	7.5	118	-0.10	24.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54955.D M3P2503SIM.M Tue Aug 02 12:17:46 2016

6.7.10

6

Initial Calibration Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E4M3032-ICC3032
Lab FileID: 4M67124.D

```
                    Response Factor Report  GCMS4M

Method       : C:\MSDCHEM\1\METHODS\M4M3032SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS
Last Update  : Thu Aug 04 09:13:47 2016
Response via : Initial Calibration

Calibration Files
0.05=4m67127.D   .2  =4m67125.D   2.5 =4m67131.D   .02 =4m67128.D
.1  =4m67126.D   1   =4m67123.D   .01 =4m67129.D   .5  =4m67124.D
5   =4m67130.D       =                =                =

Compound
            0.05  .2    2.5   .02   .1    1     .01   .5    5            Avg    %RSD
-----------------------------------------------------------------------------

1) I   1-Methylnaphthalene-d ----------------ISTD---------------------
2)  2-Fluorophenol
          0.591 0.602 0.493 0.566 0.563 0.527       0.655 0.512        0.564    9.36
3)  Phenol-d5
          0.871 0.908 0.762       0.838 0.810       1.004 0.771        0.852    9.98
4)  Phenol
          0.951 0.965 0.833 0.897 0.891 0.875       1.066 0.842        0.915    8.37
5)  bis(2-Chloroethyl)ether
          0.716 0.728 0.615 0.710 0.683 0.650 0.726 0.805 0.661        0.699    7.87
6)  Nitrobenzene-d5
                0.718 0.623       0.651 0.660       0.812 0.646        0.685   10.20
7)  Naphthalene
          2.532 2.593 2.167 2.528 2.405 2.319 2.592 2.814 2.280        2.470    7.98
8)  Hexachlorobutadiene
          0.357 0.359 0.309       0.337 0.326       0.393 0.323        0.343    8.26
9)  2-Methylnaphthalene
                1.006 0.864       0.966 0.922       1.125 0.944        0.971    9.18
10)  Hexachlorocyclopentadiene
                0.096 0.178       0.064 0.161       0.153 0.181        0.139   34.48
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.00785 + 0.18245 *A + 0.00076 *A^2

11)  2-Fluorobiphenyl
          1.331 1.334 1.146 1.233 1.288 1.335 1.241 1.526 0.984        1.269   11.73

12) I   Fluorene-d10          ----------------ISTD---------------------
13)  Acenaphthylene
          1.032 1.041 1.101 1.022 1.003 1.104 0.986 1.258 1.047        1.066    7.70
14)  Acenaphthene
          0.672 0.677 0.654 0.666 0.630 0.667 0.647 0.773 0.636        0.669    6.31
15)  Dibenzofuran
          0.893 0.899 0.837       0.857 0.875       1.022 0.803        0.884    7.86
16)  Fluorene
          1.071 1.052 0.999       1.003 1.024       1.204 0.986        1.048    7.16
17)  2,4,6-Tribromophenol
          0.096 0.106 0.117       0.096 0.118       0.124 0.102        0.109   10.46
18)  Hexachlorobenzene
          0.257 0.247 0.210 0.250 0.228 0.221 0.252 0.271 0.221        0.240    8.41
19)  Pentachlorophenol
          0.060 0.083 0.118       0.061 0.113       0.115 0.138        0.098   30.85
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.00121 + 0.10149 *A + 0.00587 *A^2

20)  Phenanthrene
```

Initial Calibration Summary

Job Number: JC24622 **Sample:** E4M3032-ICC3032
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M67124.D
Project: BMSMC, Building 5 Area, PR

```
          1.647 1.565 1.416 1.833 1.467 1.513       1.812 1.437        1.586   10.30
21)  Anthracene
          1.328 1.351 1.537 1.423 1.249 1.512 1.472 1.616 1.406        1.433    7.98

22) I   Fluoranthene-d10      ----------------ISTD---------------------
23)  Fluoranthene
          1.301 1.194 1.070       1.203 1.131       1.330 1.068        1.185    8.77
24)  Pyrene
          1.176 1.125 1.070       1.103 1.100       1.279 1.031        1.126    7.19
25)  Terphenyl-d14
                0.619 0.481       0.607 0.528       0.645 0.461        0.557   13.89
26)  Benzo[a]anthracene
          1.170 1.046 0.866       1.024 1.015       1.131 0.909        1.023   10.69
27)  Chrysene
          1.194 1.037 0.888       1.069 0.976       1.117 0.886        1.024   11.26

28) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
29)  Benzo[b]fluoranthene
                1.425 1.238       1.396 1.362       1.579 1.250        1.375    9.14
30)  Benzo[k]fluoranthene
                0.917 1.022       0.908 0.937       1.090 0.979        0.975    7.20
31)  Benzo[a]pyrene
          1.448 1.179 1.053       1.237 1.048       1.215 1.032        1.173   12.62
32)  Indeno[1,2,3-cd]pyrene
                1.362 1.304       1.329 1.290       1.549 1.266        1.350    7.63
33)  Dibenz[a,h]anthracene
                1.167 1.096       1.116 1.093       1.294 1.074        1.140    7.20
34)  Benzo[g,h,i]perylene
                1.187 1.107       1.160 1.118       1.348 1.099        1.170    8.00

35) I   1-Methylnaphthalene-d ----------------ISTD---------------------
36)  1,4-Dioxane
                0.304 0.223       0.373 0.228       0.311 0.237        0.279   21.45
            ---- Quadratic regression ----  Coefficient =  0.9990
              Response Ratio = 0.00733 + 0.19500 *A + 0.02895 *A^2

37)  1-Methylnaphthalene
          1.103 1.102 0.872       1.014 0.976       1.185 0.988        1.034   10.02

38) I   Fluorene-d10a         ----------------ISTD---------------------
39)  4,6-dinitro-2-methylphenol
                0.050 0.105       0.035 0.085       0.078 0.115        0.078   39.88
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.01263 + 0.09785 *A + 0.00314 *A^2

40)  1,2-Diphenylhydrazine
                0.779 0.825       0.706 0.864       0.952 0.781        0.818   10.31
41)  n-nitrosodiphenylamine
                0.483 0.531       0.468 0.493       0.566 0.516        0.510    7.04
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M4M3032SIM.M        Thu Aug 04 11:21:18 2016   MANAGER
```

Initial Calibration Verification

Job Number: JC24622 **Sample:** E4M3032-ICV3032
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M67132.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M3032\4m67132.D          Vial: 11
Acq On    :  3 Aug 2016   9:01 pm                    Operator: juliusj
Sample    : icv3032-1.0                              Inst    : GCMS4M
Misc      : op95453a,e4m3032                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M3032SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Thu Aug 04 09:13:47 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	119	0.00	10.69
5	t	bis(2-Chloroethyl)ether	0.699	0.678	3.0	125	-0.01	6.42
7	t	Naphthalene	2.470	2.328	5.7	120	0.00	9.20
8	t	Hexachlorobutadiene	0.343	0.334	2.6	122	0.00	9.51
9	t	2-Methylnaphthalene	0.971	0.936	3.6	121	0.00	10.54
		----------	AvgRF	CCRF	% Dev	----------		
12	I	Fluorene-d10	1.000	1.000	0.0	127	0.00	13.66
13	t	Acenaphthylene	1.066	0.915	14.2	105	0.00	12.32
14	t	Acenaphthene	0.669	0.626	6.4	119	0.00	12.67
15	t	Dibenzofuran	0.884	0.818	7.5	118	0.00	13.03
16	t	Fluorene	1.048	0.947	9.6	117	0.00	13.71
18	t	Hexachlorobenzene	0.240	0.228	5.0	130	0.00	14.82
		----------	AvgRF	CCRF	% Dev	----------		
20	t	Phenanthrene	1.586	1.400	11.7	117	0.00	15.61
21	t	Anthracene	1.433	1.128	21.3	94	0.00	15.72
22	I	Fluoranthene-d10	1.000	1.000	0.0	119	-0.02	17.82
23	t	Fluoranthene	1.185	1.074	9.4	113	0.00	17.85
24	t	Pyrene	1.126	1.022	9.2	110	0.00	18.25
26	t	Benzo[a]anthracene	1.023	0.857	16.2	100	0.00	20.32
27	t	Chrysene	1.024	0.855	16.5	104	0.00	20.38
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	111	0.00	22.41
29	t	Benzo[b]fluoranthene	1.375	1.182	14.0	97	0.00	21.98
30	t	Benzo[k]fluoranthene	0.975	0.857	12.1	102	0.00	22.02
31	t	Benzo[a]pyrene	1.173	0.962	18.0	102	0.00	22.43
32	t	Indeno[1,2,3-cd]pyrene	1.350	1.194	11.6	103	0.00	24.03
33	t	Dibenz[a,h]anthracene	1.140	0.940	17.5	96	0.00	24.07
34	t	Benzo[g,h,i]perylene	1.170	1.033	11.7	103	0.00	24.46
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	119	0.00	10.69
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	1.000	0.974	2.6	118	0.01	2.76
38	I	Fluorene-d10a	1.000	1.000	0.0	127	0.00	13.66
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	0.818	0.781	4.5	114	0.00	14.07
41	t	n-nitrosodiphenylamine	0.510	0.418	18.0	107	0.00	14.02

Initial Calibration Verification

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M3032-ICV3032
Lab FileID: 4M67132.D

```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    4m67123.D  M4M3032SIM.M       Thu Aug 04 10:12:00 2016   MANAGER
```

Initial Calibration Verification

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E4M3033-ICV3032
Lab FileID: 4M67136.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M3033\4m67136.D          Vial: 2
Acq On    :  4 Aug 2016  10:22 am                    Operator: juliusj
Sample    : icv3032-1.0                              Inst    : GCMS4M
Misc      : op95453a,e4m3033                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M3032SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Thu Aug 04 09:13:47 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	96	-0.02	10.66
12	I	Fluorene-d10	1.000	1.000	0.0	64	-0.02	13.64
		----------	True	Calc.	% Drift		----------	
19	t	Pentachlorophenol	5.000	5.782	-15.6	72	-0.05	15.23
		----------	AvgRF	CCRF	% Dev		----------	
22	I	Fluoranthene-d10	1.000	1.000	0.0	101	-0.02	17.82
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	99	-0.01	22.39
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	96	-0.02	10.66
38	I	Fluorene-d10a	1.000	1.000	0.0	64	-0.02	13.64
		----------	True	Calc.	% Drift		----------	
39	t	4,6-dinitro-2-methylpheno	5.000	5.895	-17.9	83	-0.02	13.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m67123.D M4M3032SIM.M Thu Aug 04 11:21:10 2016 MANAGER

Continuing Calibration Summary

Job Number: JC24622 **Sample:** E4M3036-CC3032
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M67180A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M3036\4m67180a.D          Vial: 2
Acq On    :  5 Aug 2016  10:06 am                     Operator: shaniceg
Sample    : cc3032-1                                  Inst    : GCMS4M
Misc      : op95453a,e4m3036                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M3032SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Thu Aug 04 09:13:47 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	62	-0.10	10.59
2	S	2-Fluorophenol	0.564	0.524	7.1	62	-0.08	4.74
3	S	Phenol-d5	0.852	0.784	8.0	60	-0.07	6.20
4	t	Phenol	0.915	0.844	7.8	60	-0.08	6.22
5	t	bis(2-Chloroethyl)ether	0.699	0.621	11.2	60	-0.08	6.36
6	S	Nitrobenzene-d5	0.685	0.630	8.0	60	-0.08	7.75
7	t	Naphthalene	2.470	2.184	11.6	59	-0.09	9.11
8	t	Hexachlorobutadiene	0.343	0.319	7.0	61	-0.09	9.42
9	t	2-Methylnaphthalene	0.971	0.871	10.3	59	-0.07	10.47
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	2.000	2.402	-20.1#	79	-0.10	10.83
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.269	1.334	-5.1	62	-0.09	11.24
12	I	Fluorene-d10	1.000	1.000	0.0	61	-0.09	13.56
13	t	Acenaphthylene	1.066	0.850	20.3#	47#	-0.09	12.23
14	t	Acenaphthene	0.669	0.555	17.0	50	-0.09	12.59
15	t	Dibenzofuran	0.884	0.942	-6.6	65	-0.09	12.94
16	t	Fluorene	1.048	1.026	2.1	61	-0.10	13.61
17	S	2,4,6-Tribromophenol	0.109	0.101	7.3	52	-0.10	14.11
18	t	Hexachlorobenzene	0.240	0.195	18.7	53	-0.08	14.74
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	5.000	4.788	4.2	55	-0.14	15.15
		----------	AvgRF	CCRF	% Dev	----------		
20	t	Phenanthrene	1.586	0.898	43.4#	36#	-0.11	15.50
21	t	Anthracene	1.433	1.329	7.3	53	-0.11	15.61
22	I	Fluoranthene-d10	1.000	1.000	0.0	59	-0.02	17.72
23	t	Fluoranthene	1.185	1.061	10.5	56	0.00	17.76
24	t	Pyrene	1.126	1.031	8.4	55	0.00	18.15
25	S	Terphenyl-d14	0.557	0.514	7.7	58	0.00	18.51
26	t	Benzo[a]anthracene	1.023	0.956	6.5	56	-0.02	20.23
27	t	Chrysene	1.024	0.941	8.1	57	-0.02	20.28
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	60	-0.01	22.31
29	t	Benzo[b]fluoranthene	1.375	1.255	8.7	56	-0.01	21.88
30	t	Benzo[k]fluoranthene	0.975	1.000	-2.6	65	-0.01	21.93
31	t	Benzo[a]pyrene	1.173	1.058	9.8	61	-0.01	22.34

Continuing Calibration Summary

Job Number: JC24622 **Sample:** E4M3036-CC3032
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M67180A.D
Project: BMSMC, Building 5 Area, PR

32	t	Indeno[1,2,3-cd]pyrene	1.350	1.263	6.4	59	-0.03	23.91
33	t	Dibenz[a,h]anthracene	1.140	1.046	8.2	58	-0.03	23.95
34	t	Benzo[g,h,i]perylene	1.170	1.084	7.4	59	-0.05	24.32
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	62	-0.10	10.59
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	1.000	1.063	-6.3	67	-0.07	2.68
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.034	0.878	15.1	56	-0.10	10.64
38	I	Fluorene-d10a	1.000	1.000	0.0	61	-0.09	13.56
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	5.000	4.489	10.2	58	-0.12	13.76
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	0.818	0.794	2.9	56	-0.09	13.97
41	t	n-nitrosodiphenylamine	0.510	0.473	7.3	58	-0.10	13.92

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m67123.D M4M3032SIM.M Fri Aug 05 11:42:43 2016 MANAGER

6.7.14

6

Initial Calibration Summary

Job Number: JC24622 **Sample:** EP4681-ICC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105969.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSP

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration

Calibration Files
2 =P105975.D 5 =P105974.D 25 =P105972a.D 80 =P105971.D
100 =P105970.D 50 =P105969.D 10 =P105973.D 1 =P105976.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.677	0.792	0.725	0.708	0.669	0.664	0.797	0.677	0.713	7.55
3) Pyridine	1.698	1.981	1.897	1.727	1.660	1.671	1.995	1.383	1.751	11.56
4) N-Nitrosodim	0.690	0.663	0.683	0.634	0.635	0.688	0.671	0.549	0.652	7.20
5) 2-Fluorophen	1.375	1.377	1.390	1.327	1.302	1.364	1.446	1.181	1.345	5.88
6) Indene	2.638	2.648	2.440	1.959	1.894	2.179	2.564	2.509	2.354	12.85
7) Cumene	3.896	3.946	3.642	2.972	2.857	3.238	3.869	3.823	3.530	12.53
8) Phenol-d5	2.118	2.039	1.969	1.748	1.717	1.891	2.033	1.664	1.897	8.94
9) Phenol	2.585	2.481	2.275	1.810	1.740	2.017	2.411	2.559	2.235	15.07
10) Aniline	3.084	2.963	2.540	2.078	1.993	2.220	2.804	2.891	2.572	16.60
11) bis(2-Chloro	1.650	1.652	1.443	1.296	1.273	1.362	1.562	1.535	1.472	10.26
12) 2-Chlorophen	1.525	1.502	1.353	1.233	1.228	1.308	1.456	1.400	1.376	8.38
13) Decane	1.828	1.729	1.478	1.040		1.259	1.598	1.681	1.516	18.48
14) 1,3-Dichloro	1.623	1.449	1.368	1.277	1.248	1.321	1.455	1.488	1.404	8.86
15) 1,4-Dichloro	1.407	1.394	1.307	1.238	1.227	1.298	1.465	1.370	1.338	6.31
16) Benzyl alcoh	1.027	1.004	0.986	0.862	0.809	0.946	0.994	1.071	0.962	9.05
17) 1,2-Dichloro	1.397	1.423	1.246	1.122	1.090	1.180	1.348	1.290	1.262	9.87
18) Acetophenone	2.167	2.078	1.915	1.493	1.447	1.720	2.076	2.127	1.878	15.39
19) 2-Methylphen	1.339	1.326	1.266	1.045	1.008	1.167	1.365	1.262	1.222	11.10
20) 2,2'-oxybis(	0.441	0.467	0.420	0.386	0.385	0.405	0.438	0.495	0.430	9.02
21) 3&4-Methylph	1.534	1.408	1.391	1.051	1.040	1.211	1.436	1.492	1.320	14.73
22) n-Nitroso-di	1.283	1.229	1.068	0.729		0.909	1.157	1.162	1.077	18.12
23) Hexachloroet	0.517	0.534	0.514	0.505	0.514	0.530	0.524	0.518	0.520	1.81
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.555	0.565	0.497	0.452	0.442	0.490	0.537	0.494	0.504	8.92
26) Nitrobenzene	0.573	0.570	0.501	0.437	0.424	0.481	0.556	0.621	0.520	13.53
27) Quinoline	0.835	0.882	0.774	0.727	0.735	0.761	0.829	0.827	0.796	6.93
28) Isophorone	0.968	0.981	0.872	0.754	0.734	0.823	0.935	0.964	0.879	11.27
29) 2-Nitropheno	0.218	0.224	0.219	0.200	0.196	0.217	0.224	0.187	0.211	6.73
30) 2,4-Dimethyl	0.489	0.489	0.434	0.388	0.380	0.408	0.468	0.416	0.434	10.01
31) Benzoic acid	0.283	0.302	0.329	0.354	0.362	0.356	0.329	0.243	0.320	12.91
32) bis(2-Chloro	0.576	0.587	0.482	0.443	0.430	0.470	0.547	0.547	0.510	11.99
33) 2,4-Dichloro	0.346	0.335	0.325	0.305	0.305	0.322	0.344	0.331	0.327	4.75
34) 2,6-Dichloro	0.334	0.338	0.313	0.289	0.296	0.312	0.338	0.321	0.318	5.86
35) 1,3,5-Trichl	0.411	0.410	0.369	0.338	0.327	0.360	0.398	0.376	0.374	8.47
36) 1,2,4-Trichl	0.361	0.379	0.342	0.320	0.317	0.340	0.364	0.390	0.352	7.51
37) 1,2,3-Trichl	0.352	0.360	0.333	0.313	0.305	0.334	0.359	0.366	0.340	6.62
38) Naphthalene	1.149	1.174	1.030	0.856	0.816	0.957	1.104	1.136	1.028	13.43
39) 4-Chloroanil	0.557	0.564	0.498	0.430	0.416	0.477	0.544	0.491	0.497	11.21
40) 2,3-Dichloro	0.451	0.407	0.392	0.350	0.347	0.380	0.423	0.417	0.396	9.13
41) Caprolactam	0.281	0.286	0.252	0.238	0.239	0.253	0.276		0.261	7.69
42) Hexachlorobu	0.222	0.225	0.218	0.210	0.213	0.225	0.230	0.216	0.220	3.06
43) 4-Chloro-3-m	0.395	0.401	0.375	0.344	0.345	0.373	0.394	0.335	0.370	7.00
44) 2-Methylnaph	0.685	0.674	0.624	0.544	0.529	0.600	0.670	0.634	0.620	9.52
45) 1-Methylnaph	0.803	0.796	0.713	0.625	0.615	0.683	0.753	0.747	0.717	9.97

Initial Calibration Summary

Job Number: JC24622 **Sample:** EP4681-ICC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105969.D
Project: BMSMC, Building 5 Area, PR

```
46) Dimethylnaph 0.712 0.697 0.633 0.570 0.563 0.620 0.680 0.708 0.648   9.29

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.327 0.367 0.406 0.423 0.429 0.445 0.406 0.309 0.389  12.71
49) 2,4,6-Trichl 0.483 0.466 0.415 0.404 0.412 0.439 0.448 0.397 0.433   7.14
50) 2,4,5-Trichl 0.489 0.483 0.434 0.435 0.435 0.453 0.453 0.467 0.456   4.76
51) 2-Fluorobiph 1.526 1.447 1.235 1.131 1.102 1.234 1.379 1.397 1.306  11.72
52) 2-Chloronaph 1.315 1.211 1.039 0.945 0.933 1.040 1.123 1.233 1.105  12.61
53) Biphenyl     1.784 1.691 1.467 1.308 1.276 1.462 1.604 1.584 1.522  11.66
54) 2-Nitroanili 0.599 0.595 0.536 0.498 0.496 0.538 0.558 0.587 0.551   7.45
55) Dimethylphth 1.411 1.342 1.187 1.136 1.124 1.199 1.289 1.417 1.263   9.38
56) Acenaphthyle 2.090 2.124 1.801 1.595 1.562 1.794 1.981 1.922 1.859  11.28
57) 2,6-Dinitrot 0.245 0.268 0.268 0.272 0.280 0.282 0.280 0.260 0.270   4.55
58) 3-Nitroanili 0.395 0.419 0.374 0.376 0.374 0.380 0.385 0.314 0.377   7.85
59) Acenaphthene 1.240 1.192 1.065 0.997 0.997 1.076 1.150 1.132 1.106   7.95
60) 2,4-Dinitrop 0.056 0.097 0.164 0.196 0.199 0.191 0.137       0.149  37.05
         ----- Quadratic regression -----                Coefficient =  0.9996
              Response Ratio = -0.02204 + 0.18761 *A + 0.00335 *A^2

61) 4-Nitropheno 0.203 0.257 0.248 0.260 0.267 0.275 0.241 0.188 0.242  12.91
62) Dibenzofuran 2.076 1.975 1.680 1.526 1.504 1.679 1.893 1.886 1.777  11.85
63) 2,4-Dinitrot 0.381 0.395 0.385 0.387 0.392 0.410 0.394 0.342 0.386   5.10
64) 2,3,4,6-Tetr 0.333 0.358 0.365 0.384 0.390 0.399 0.352 0.322 0.363   7.52
65) Diethylphtha 1.555 1.552 1.358 1.289 1.282 1.426 1.447 1.459 1.421   7.43
66) Fluorene     1.478 1.541 1.349 1.239 1.238 1.353 1.447 1.430 1.384   7.92
67) 4-Chlorophen 0.782 0.728 0.665 0.650 0.663 0.685 0.698 0.713 0.698   6.17
68) 4-Nitroanili 0.390 0.402 0.370 0.353 0.368 0.386 0.395 0.353 0.377   5.00

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.103 0.131 0.146 0.149 0.146 0.114       0.132  14.71
71) n-Nitrosodip 0.545 0.559 0.500 0.499 0.492 0.512 0.533 0.529 0.521   4.64
72) 1,2-Diphenyl 1.078 1.093 0.934 0.800 0.764 0.887 1.004 1.024 0.948  13.01
73) 2,4,6-Tribro 0.079 0.089 0.085 0.098 0.100 0.092 0.086 0.077 0.088   9.16
74) 4-Bromopheny 0.224 0.238 0.210 0.229 0.224 0.228 0.224 0.205 0.223   4.72
75) Hexachlorobe 0.230 0.251 0.216 0.222 0.223 0.222 0.215 0.238 0.227   5.34
76) Pentachlorop 0.084 0.106 0.134 0.148 0.153 0.149 0.122       0.128  19.86
77) Phenanthrene 1.093 1.074 0.942 0.903 0.891 0.947 0.996 1.056 0.988   7.98
78) Anthracene   1.106 1.083 0.986 0.935 0.904 0.966 1.064 1.050 1.012   7.32
79) Carbazole    1.164 1.133 1.037 0.965 0.964 1.033 1.113 1.080 1.061   7.02
80) Di-n-butylph 1.379 1.391 1.308 1.230 1.206 1.336 1.366 1.226 1.305   5.73
81) Fluoranthene 1.378 1.443 1.318 1.248 1.231 1.318 1.382 1.333 1.331   5.28
82) Octadecane   0.751 0.757 0.669 0.560 0.533 0.622 0.710 0.716 0.665  12.83

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.473 1.500 1.278 1.193 1.173 1.308 1.384 1.422 1.341   9.18
85) Terphenyl-d1 0.808 0.810 0.755 0.746 0.740 0.779 0.785 0.780 0.776   3.40
86) Butylbenzylp 0.604 0.622 0.587 0.591 0.584 0.626 0.609 0.541 0.596   4.52
87) Benzo[a]anth 1.229 1.190 1.117 1.087 1.066 1.139 1.173 1.211 1.151   5.10
88) 3,3'-Dichlor 0.364 0.372 0.380 0.400 0.394 0.403 0.382 0.380 0.384   3.52
89) Chrysene     1.096 1.093 0.980 0.957 0.944 1.011 1.037 1.065 1.023   5.81
90) bis(2-Ethylh 0.723 0.761 0.711 0.686 0.674 0.735 0.735 0.629 0.707   5.97

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.503 1.659 1.664 1.679 1.670 1.790 1.723 1.601 1.661   5.06
93) Benzo[b]fluo 1.378 1.462 1.419 1.455 1.484 1.498 1.439 1.316 1.431   4.19
94) Benzo[k]fluo 1.344 1.350 1.166 1.137 1.141 1.214 1.274 1.203 1.229   6.94
95) Benzo[a]pyre 1.159 1.264 1.222 1.243 1.245 1.267 1.267 1.173 1.230   3.45
96) Indeno[1,2,3 0.856 0.947 0.923 0.965 0.961 0.946 0.937 0.844 0.922   5.06
97) Dibenz(a,h)a 0.854 0.919 0.911 1.004 0.998 0.956 0.940 0.766 0.918   8.53
98) Dibenz[a,h]a 0.957 0.975 0.850 0.866 0.875 0.863 0.915 0.850 0.894   5.51
```

Initial Calibration Summary

Job Number: JC24622 **Sample:** EP4681-ICC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105969.D
Project: BMSMC, Building 5 Area, PR

```
 99) 7,12-Dimethy 0.640 0.656 0.611 0.652 0.678 0.656 0.629 0.649 0.646   3.11
100) Benzo[g,h,i] 0.988 1.058 0.947 0.983 0.960 0.954 1.059 0.914 0.983   5.27
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MP4681.M          Tue Jul 12 17:17:50 2016
```

Initial Calibration Summary

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4682-ICC4682
Lab FileID: P105980.D

Response Factor Report MSP

```
Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration

Calibration Files
2   =P105984.D  5   =P105983.D  25  =P105981.D  80  =P105979.D
100 =P105978.D  50  =P105980.D  10  =P105982.D  1   =P105985.D

 Compound          2     5     25    80    100   50    10    1     Avg %RSD
 ---------------------------------------------------------------------------
158) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
159) Benzaldehyde 1.067 1.070 1.053 0.705       1.029 1.171 1.096 1.027  14.49

160) I   Phenanthrene-d10b     ----------------ISTD---------------------
161) Atrazine     0.176 0.173 0.190 0.186 0.184 0.195 0.194 0.152 0.181   7.93

162) I   Chrysene-d12b         ----------------ISTD---------------------
163) Benzidine    0.491 0.562 0.608 0.353       0.480 0.700 0.481 0.525  21.12

164) I   Naphthalene-d8b       ----------------ISTD---------------------
165) Hydroquinone 0.277 0.311 0.366 0.359 0.361 0.417 0.353       0.349  12.69

166) I   Acenaphthene-d10b     ----------------ISTD---------------------
167) 1,2,4,5-Tetr 0.596 0.603 0.608 0.554 0.549 0.616 0.638 0.622 0.598   5.27

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

           MP4681.M          Tue Jul 12 13:55:56 2016
```

Initial Calibration Verification

Job Number: JC24622 **Sample:** EP4682-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105986.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105986.D          Vial: 10
Acq On    : 11 Jul 2016   7:46 pm                   Operator: brittanp
Sample    : icv4681-50                              Inst    : MSP
Misc      : op93881,ep4682                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 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	130	0.00	4.60
9	t	Phenol	2.235	1.620	27.5	105	0.00	4.35
12	t	2-Chlorophenol	1.376	1.112	19.2	111	0.00	4.44
19	t	2-Methylphenol	1.222	1.044	14.6	116	0.00	4.79
21	t	3&4-Methylphenol	1.320	1.070	18.9	115	0.00	4.89
24	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00	5.52
29	t	2-Nitrophenol	0.211	0.195	7.6	107	0.00	5.24
30	t	2,4-Dimethylphenol	0.434	0.375	13.6	109	0.00	5.27
31	t	Benzoic acid	0.320	0.283	11.6	94	0.00	5.37
33	t	2,4-Dichlorophenol	0.327	0.278	15.0	102	0.00	5.42
34		2,6-Dichlorophenol	0.318	0.273	14.2	104	0.00	5.58
43	t	4-Chloro-3-methylphenol	0.370	0.317	14.3	101	-0.01	5.91
47	I	Acenaphthene-d10	1.000	1.000	0.0	131	0.00	6.90
49	t	2,4,6-Trichlorophenol	0.433	0.351	18.9	105	0.00	6.24
50	t	2,4,5-Trichlorophenol	0.456	0.332	27.2	96	-0.01	6.27
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	37.247	25.5	86	0.00	6.96
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.242	0.193	20.2	92	0.00	7.03
64		2,3,4,6-Tetrachlorophenol	0.363	0.281	22.6	92	0.00	7.23
69	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00	8.73
70	t	4,6-Dinitro-2-methylpheno	0.132	0.110	16.7	92	0.00	7.54
76	t	Pentachlorophenol	0.128	0.110	14.1	90	-0.01	8.45
83	I	Chrysene-d12	1.000	1.000	0.0	114	-0.02	13.94

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:23 2016

Initial Calibration Verification

Job Number: JC24622 **Sample:** EP4682-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105987.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105987.D          Vial: 11
Acq On    : 11 Jul 2016   8:15 pm                   Operator: brittanp
Sample    : icv4681-50                              Inst    : MSP
Misc      : op93881,ep4682                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 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	108	0.00	4.60
3	t	Pyridine	1.751	1.828	-4.4	119	0.11	2.57
10	t	Aniline	2.572	2.466	4.1	120	0.01	4.37
16	t	Benzyl alcohol	0.962	0.968	-0.6	111	0.00	4.70
24	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00	5.52
39	t	4-Chloroaniline	0.497	0.434	12.7	107	0.00	5.57
44	t	2-Methylnaphthalene	0.620	0.530	14.5	104	0.00	6.02
47	I	Acenaphthene-d10	1.000	1.000	0.0	112	0.00	6.90
54	t	2-Nitroaniline	0.551	0.496	10.0	103	0.00	6.49
58	t	3-Nitroaniline	0.377	0.367	2.7	108	0.00	6.86
		----------	AvgRF	CCRF	% Dev	----------		
62	t	Dibenzofuran	1.777	1.683	5.3	112	0.00	7.10
68	t	4-Nitroaniline	0.377	0.352	6.6	102	-0.02	7.50
69	I	Phenanthrene-d10	1.000	1.000	0.0	119	0.00	8.73
79	t	Carbazole	1.061	0.962	9.3	110	0.00	9.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:24 2016

Initial Calibration Verification

Job Number: JC24622 **Sample:** EP4682-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105988.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 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	123	0.00	4.60
4	t	N-Nitrosodimethylamine	0.652	0.554	15.0	99	0.02	2.45
11	t	bis(2-Chloroethyl)ether	1.472	1.525	-3.6	137	0.00	4.41
14	t	1,3-Dichlorobenzene	1.404	1.390	1.0	129	0.00	4.56
15	t	1,4-Dichlorobenzene	1.338	1.302	2.7	123	0.00	4.61
17	t	1,2-Dichlorobenzene	1.262	1.320	-4.6	137	0.00	4.72
20	t	2,2'-oxybis(1-Chloropropa	0.430	0.422	1.9	128	0.00	4.80
22		n-Nitroso-di-n-propylamin	1.077	0.987	8.4	133	0.00	4.89
23	t	Hexachloroethane	0.520	0.542	-4.2	125	0.00	4.97
24	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00	5.52
26	t	Nitrobenzene	0.520	0.493	5.2	114	0.00	5.01
28	t	Isophorone	0.879	0.831	5.5	112	-0.01	5.18
32	t	bis(2-Chloroethoxy)methan	0.510	0.527	-3.3	124	0.00	5.34
36	t	1,2,4-Trichlorobenzene	0.352	0.376	-6.8	122	0.00	5.47
38	t	Naphthalene	1.028	0.967	5.9	112	0.00	5.53
42	t	Hexachlorobutadiene	0.220	0.259	-17.7	128	0.00	5.61
47	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00	6.90
48	t	Hexachlorocyclopentadiene	0.389	0.396	-1.8	98	0.00	6.14
52	t	2-Chloronaphthalene	1.105	1.176	-6.4	123	0.00	6.40
55	t	Dimethylphthalate	1.263	1.175	7.0	107	0.00	6.64
56	t	Acenaphthylene	1.859	1.732	6.8	105	0.00	6.77
57	t	2,6-Dinitrotoluene	0.270	0.274	-1.5	106	0.00	6.70
59	t	Acenaphthene	1.106	1.093	1.2	111	0.00	6.93
		----------	AvgRF	CCRF	% Dev	----------		
63	t	2,4-Dinitrotoluene	0.386	0.350	9.3	93	0.00	7.09
65	t	Diethylphthalate	1.421	1.323	6.9	101	-0.01	7.35
66	t	Fluorene	1.384	1.251	9.6	101	0.00	7.48
67	t	4-Chlorophenyl-phenylethe	0.698	0.652	6.6	104	0.00	7.48
69	I	Phenanthrene-d10	1.000	1.000	0.0	105	0.00	8.73
71	t	n-Nitrosodiphenylamine	0.521	0.473	9.2	97	0.00	7.62
72	t	1,2-Diphenylhydrazine	0.948	0.811	14.5	96	0.00	7.67
74	t	4-Bromophenyl-phenylether	0.223	0.222	0.4	102	0.00	8.10
75	t	Hexachlorobenzene	0.227	0.220	3.1	104	0.00	8.17
77	t	Phenanthrene	0.988	0.955	3.3	106	0.00	8.77
78	t	Anthracene	1.012	0.923	8.8	100	0.00	8.85
80	t	Di-n-butylphthalate	1.305	1.172	10.2	92	0.00	9.82
81	t	Fluoranthene	1.331	1.199	9.9	95	0.00	10.88

Initial Calibration Verification

Job Number: JC24622 **Sample:** EP4682-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105988.D
Project: BMSMC, Building 5 Area, PR

83	I	Chrysene-d12	1.000	1.000	0.0	88	0.00	13.95
84	t	Pyrene	1.341	1.363	-1.6	92	0.00	11.32
86	t	Butylbenzylphthalate	0.596	0.643	-7.9	91	0.00	12.93
87	t	Benzo[a]anthracene	1.151	1.180	-2.5	91	0.00	13.93
89	t	Chrysene	1.023	0.975	4.7	85	-0.01	14.01
90	t	bis(2-Ethylhexyl)phthalat	0.707	0.721	-2.0	87	0.00	14.33
91	I	Perylene-d12	1.000	1.000	0.0	84	-0.01	16.98
92	t	Di-n-octylphthalate	1.661	1.772	-6.7	83	-0.01	15.77
93	t	Benzo[b]fluoranthene	1.431	1.382	3.4	78	-0.01	16.23
94	t	Benzo[k]fluoranthene	1.229	1.294	-5.3	90	-0.02	16.29
95	t	Benzo[a]pyrene	1.230	1.326	-7.8	88	0.00	16.86
96	t	Indeno[1,2,3-cd]pyrene	0.922	1.152	-24.9	102	-0.02	18.91
98	t	Dibenz[a,h]anthracene	0.894	1.002	-12.1	98	-0.01	18.98
100	t	Benzo[g,h,i]perylene	0.983	1.088	-10.7	96	-0.02	19.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:25 2016

Initial Calibration Verification

Job Number: JC24622 **Sample:** EP4682-ICV4682
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105988A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105988A.D          Vial: 12
Acq On    : 11 Jul 2016   8:44 pm                    Operator: brittanp
Sample    : icv4682-50                               Inst    : MSP
Misc      : op93881,ep4682                           Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 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.
162	I	Chrysene-d12b	1.000	1.000	0.0	82	0.01	13.95
163		Benzidine	0.525	0.421	19.8	73	0.00	11.23
164	I	Naphthalene-d8b	1.000	1.000	0.0	102	0.00	5.52
166	I	Acenaphthene-d10b	1.000	1.000	0.0	100	0.00	6.90
167		1,2,4,5-Tetrachlorobenzen	0.598	0.710	-18.7	115	0.00	6.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:26 2016

Initial Calibration Verification

Job Number: JC24622 **Sample:** EP4682-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105990.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105990.D          Vial: 14
Acq On    : 11 Jul 2016   9:42 pm                   Operator: brittanp
Sample    : icv4681-50                              Inst    : MSP
Misc      : op93881,ep4682                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 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	4.60
5	S	2-Fluorophenol	1.345	1.340	0.4	132	0.00	3.62
8	S	Phenol-d5	1.897	1.716	9.5	122	0.00	4.34
24	I	Naphthalene-d8	1.000	1.000	0.0	131	0.00	5.52
25	S	Nitrobenzene-d5	0.504	0.495	1.8	132	0.00	5.00
47	I	Acenaphthene-d10	1.000	1.000	0.0	126	0.00	6.90
51	S	2-Fluorobiphenyl	1.306	1.384	-6.0	142	0.00	6.31
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	120	0.00	8.73
73	S	2,4,6-Tribromophenol	0.088	0.098	-11.4	127	0.00	7.77
83	I	Chrysene-d12	1.000	1.000	0.0	107	-0.02	13.94
85	S	Terphenyl-d14	0.776	0.870	-12.1	120	0.00	11.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:27 2016

Initial Calibration Verification

Job Number: JC24622 **Sample:** EP4682-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105991.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105991.D          Vial: 15
Acq On    : 11 Jul 2016  10:11 pm                   Operator: brittanp
Sample    : icv4681-50                              Inst    : MSP
Misc      : op93881,ep4682                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 13 09:03:58 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	119	-0.02	13.94
88 t	3,3'-Dichlorobenzidine	0.384	0.362	5.7	106	-0.01	13.98

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Wed Jul 13 09:08:14 2016

Initial Calibration Verification

Job Number: JC24622 **Sample:** EP4682-ICV4682
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105992.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105992.D          Vial: 16
Acq On    : 11 Jul 2016  10:40 pm                   Operator: brittanp
Sample    : icv4682-50                              Inst    : MSP
Misc      : op93881,ep4682                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 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.
164 I	Naphthalene-d8b	1.000	1.000	0.0	109	0.00	5.52
165	Hydroquinone	0.349	0.366	-4.9	95	0.00	5.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:29 2016

Initial Calibration Verification

Job Number: JC24622
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4683-ICV4682
Lab FileID: P105998A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4683\P105998A.D          Vial: 2
Acq On    : 12 Jul 2016   4:43 pm                    Operator: ashleyd
Sample    : icv4682-50                               Inst    : MSP
Misc      : op93881,ep4683                           Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 17:11:18 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.
158	I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	108	-0.02	4.58
159		Benzaldehyde	1.027	1.067	-3.9	112	-0.02	4.26
160	I	Phenanthrene-d10b	1.000	1.000	0.0	94	-0.03	8.70
161		Atrazine	0.181	0.222	-22.7	107	-0.02	8.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 17:22:46 2016

Initial Calibration Verification

Job Number: JC24622 **Sample:** EP4683-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105998.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4683\P105998.D          Vial: 2
Acq On    : 12 Jul 2016   4:43 pm                   Operator: ashleyd
Sample    : icv4681-50                              Inst    : MSP
Misc      : op93881,ep4683                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 17:11:18 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	-0.02	4.58
2	t	1,4-Dioxane	0.713	0.540	24.3	92	-0.02	2.12
6	t	Indene	2.354	2.132	9.4	110	-0.02	4.76
7	t	Cumene	3.530	2.811	20.4	98	-0.02	3.98
13	t	Decane	1.516	1.045	31.1#	94	-0.02	4.46
18	t	Acetophenone	1.878	1.710	8.9	112	-0.02	4.87
24	I	Naphthalene-d8	1.000	1.000	0.0	131	-0.02	5.50
27	t	Quinoline	0.796	0.584	26.6	100	-0.03	5.75
40	t	2,3-Dichloroaniline	0.396	0.283	28.5	97	-0.02	6.22
41	t	Caprolactam	0.261	0.183	29.9	94	-0.04	5.79
45	t	1-Methylnaphthalene	0.717	0.547	23.7	104	-0.02	6.08
46	t	Dimethylnaphthalene	0.648	0.498	23.1	105	-0.02	6.50
47	I	Acenaphthene-d10	1.000	1.000	0.0	111	-0.03	6.88
53	t	Biphenyl	1.522	1.388	8.8	105	-0.03	6.37
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	105	-0.04	8.70
82	t	Octadecane	0.665	0.579	12.9	97	-0.03	8.61
83	I	Chrysene-d12	1.000	1.000	0.0	110	-0.05	13.90
84	t							
91	I	Perylene-d12	1.000	1.000	0.0	108	-0.05	16.93
99	t	7,12-Dimethylbenz(a)anthr	0.646	0.434	32.8#	72	-0.06	16.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 17:22:45 2016

Continuing Calibration Summary

Job Number: JC24622 **Sample:** EP4702-CC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P106355.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4702\P106355.D          Vial: 2
Acq On    : 26 Jul 2016  12:32 pm                   Operator: brittanp
Sample    : cc4681-25                               Inst    : MSP
Misc      : op95516,ep4702                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 26 14:07:52 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	76	0.00	4.42
2	t	1,4-Dioxane	0.713	0.707	0.8	74	-0.13	1.90
3	t	Pyridine	1.751	1.860	-6.2	74	-0.04	2.24
4	t	N-Nitrosodimethylamine	0.652	0.814	-24.8#	90	0.00	2.21
5	S	2-Fluorophenol	1.345	1.544	-14.8	84	-0.03	3.44
6	t	Indene	2.354	2.695	-14.5	84	0.00	4.60
7	t	Cumene	3.530	3.834	-8.6	80	-0.03	3.81
8	S	Phenol-d5	1.897	1.850	2.5	71	0.01	4.19
9	t	Phenol	2.235	2.185	2.2	73	0.01	4.20
10	t	Aniline	2.572	2.392	7.0	72	0.01	4.18
11	t	bis(2-Chloroethyl)ether	1.472	1.379	6.3	73	-0.01	4.23
12	t	2-Chlorophenol	1.376	1.544	-12.2	87	0.00	4.27
13	t	Decane	1.516	1.294	14.6	67	0.01	4.30
14	t	1,3-Dichlorobenzene	1.404	1.627	-15.9	90	0.00	4.37
15	t	1,4-Dichlorobenzene	1.338	1.590	-18.8	92	0.00	4.43
16	t	Benzyl alcohol	0.962	1.046	-8.7	81	0.00	4.53
17	t	1,2-Dichlorobenzene	1.262	1.451	-15.0	88	0.00	4.54
18	t	Acetophenone	1.878	2.145	-14.2	85	0.01	4.72
19	t	2-Methylphenol	1.222	1.397	-14.3	84	0.02	4.63
20	t	2,2'-oxybis(1-Chloropropa	0.430	0.453	-5.3	82	0.00	4.62
21	t	3&4-Methylphenol	1.320	1.522	-15.3	83	0.03	4.74
22		n-Nitroso-di-n-propylamin	1.077	1.100	-2.1	78	0.02	4.72
23	t	Hexachloroethane	0.520	0.593	-14.0	88	0.00	4.78
24	I	Naphthalene-d8	1.000	1.000	0.0	81	0.00	5.34
25	S	Nitrobenzene-d5	0.504	0.471	6.5	77	-0.03	4.82
26	t	Nitrobenzene	0.520	0.473	9.0	77	-0.03	4.84
27	t	Quinoline	0.796	0.867	-8.9	91	0.00	5.60
28	t	Isophorone	0.879	0.817	7.1	76	-0.02	5.01
29	t	2-Nitrophenol	0.211	0.249	-18.0	92	-0.01	5.07
30	t	2,4-Dimethylphenol	0.434	0.423	2.5	79	0.00	5.11
31	t	Benzoic acid	0.320	0.341	-6.6	84	0.00	5.21
32	t	bis(2-Chloroethoxy)methan	0.510	0.470	7.8	79	-0.01	5.17
33	t	2,4-Dichlorophenol	0.327	0.369	-12.8	92	0.00	5.25
34		2,6-Dichlorophenol	0.318	0.346	-8.8	90	0.00	5.40
35		1,3,5-Trichlorobenzene	0.374	0.421	-12.6	93	-0.01	5.07
36	t	1,2,4-Trichlorobenzene	0.352	0.378	-7.4	90	-0.01	5.30
37		1,2,3-Trichlorobenzene	0.340	0.378	-11.2	92	0.00	5.45
38	t	Naphthalene	1.028	1.126	-9.5	89	-0.01	5.35
39	t	4-Chloroaniline	0.497	0.516	-3.8	84	0.00	5.40
40	t	2,3-Dichloroaniline	0.396	0.426	-7.6	88	0.00	6.05
41	t	Caprolactam	0.261	0.183	29.9#	59	0.00	5.66

Continuing Calibration Summary

Job Number: JC24622 **Sample:** EP4702-CC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P106355.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.220	0.227	-3.2	85	0.00	5.44
43	t	4-Chloro-3-methylphenol	0.370	0.416	-12.4	90	0.02	5.76
44	t	2-Methylnaphthalene	0.620	0.722	-16.5	94	-0.01	5.84
45	t	1-Methylnaphthalene	0.717	0.796	-11.0	91	-0.01	5.91
46	t	Dimethylnaphthalene	0.648	0.732	-13.0	94	0.00	6.31
47	I	Acenaphthene-d10	1.000	1.000	0.0	85	-0.02	6.68
48	t	Hexachlorocyclopentadiene	0.389	0.301	22.6#	63	0.00	5.95
49	t	2,4,6-Trichlorophenol	0.433	0.434	-0.2	89	-0.01	6.06
50	t	2,4,5-Trichlorophenol	0.456	0.469	-2.9	92	-0.01	6.09
51	S	2-Fluorobiphenyl	1.306	1.332	-2.0	92	0.00	6.11
52	t	2-Chloronaphthalene	1.105	1.167	-5.6	95	0.00	6.21
53	t	Biphenyl	1.522	1.590	-4.5	92	0.00	6.19
54	t	2-Nitroaniline	0.551	0.472	14.3	75	0.00	6.30
55	t	Dimethylphthalate	1.263	1.442	-14.2	103	0.00	6.44
56	t	Acenaphthylene	1.859	1.985	-6.8	94	-0.01	6.55
57	t	2,6-Dinitrotoluene	0.270	0.334	-23.7#	106	0.00	6.49
58	t	3-Nitroaniline	0.377	0.398	-5.6	90	0.00	6.65
59	t	Acenaphthene	1.106	1.199	-8.4	96	-0.02	6.70
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	45.405	9.2	81	0.00	6.75
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.242	0.226	6.6	78	0.03	6.84
62	t	Dibenzofuran	1.777	1.855	-4.4	94	-0.02	6.87
63	t	2,4-Dinitrotoluene	0.386	0.448	-16.1	99	0.00	6.87
64		2,3,4,6-Tetrachlorophenol	0.363	0.373	-2.8	87	-0.01	7.00
65	t	Diethylphthalate	1.421	1.445	-1.7	90	-0.02	7.11
66	t	Fluorene	1.384	1.430	-3.3	90	-0.02	7.23
67	t	4-Chlorophenyl-phenylethe	0.698	0.730	-4.6	93	-0.02	7.23
68	t	4-Nitroaniline	0.377	0.361	4.2	83	-0.02	7.26
69	I	Phenanthrene-d10	1.000	1.000	0.0	88	-0.03	8.43
70	t	4,6-Dinitro-2-methylpheno	0.132	0.148	-12.1	99	0.00	7.30
71	t	n-Nitrosodiphenylamine	0.521	0.568	-9.0	100	-0.02	7.37
72	t	1,2-Diphenylhydrazine	0.948	0.807	14.9	76	-0.02	7.41
73	S	2,4,6-Tribromophenol	0.088	0.099	-12.5	102	-0.02	7.50
74	t	4-Bromophenyl-phenylether	0.223	0.232	-4.0	97	-0.03	7.81
75	t	Hexachlorobenzene	0.227	0.226	0.4	92	-0.03	7.88
76	t	Pentachlorophenol	0.128	0.124	3.1	81	-0.02	8.17
77	t	Phenanthrene	0.988	1.101	-11.4	102	-0.03	8.47
78	t	Anthracene	1.012	1.150	-13.6	102	-0.03	8.54
79	t	Carbazole	1.061	1.153	-8.7	97	-0.02	8.82
80	t	Di-n-butylphthalate	1.305	1.394	-6.8	93	-0.02	9.49
81	t	Fluoranthene	1.331	1.369	-2.9	91	-0.02	10.52
82	t	Octadecane	0.665	0.472	29.0#	62	-0.02	8.34
83	I	Chrysene-d12	1.000	1.000	0.0	87	-0.05	13.56
84	t	Pyrene	1.341	1.386	-3.4	94	-0.09	10.94
85	S	Terphenyl-d14	0.776	0.842	-8.5	97	-0.04	11.38
86	t	Butylbenzylphthalate	0.596	0.634	-6.4	94	-0.05	12.55
87	t	Benzo[a]anthracene	1.151	1.282	-11.4	100	-0.05	13.54
88	t	3,3'-Dichlorobenzidine	0.384	0.425	-10.7	97	-0.04	13.60
89	t	Chrysene	1.023	1.181	-15.4	105	-0.05	13.61
90	t	bis(2-Ethylhexyl)phthalat	0.707	0.833	-17.8	102	-0.02	13.95
91	I	Perylene-d12	1.000	1.000	0.0	107	-0.05	16.58
92	t	Di-n-octylphthalate	1.661	1.573	5.3	101	-0.06	15.39
93	t	Benzo[b]fluoranthene	1.431	1.336	6.6	101	-0.07	15.83

Continuing Calibration Summary

Job Number: JC24622 **Sample:** EP4702-CC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P106355.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[k]fluoranthene	1.229	1.218	0.9	112	-0.07	15.89
95	t	Benzo[a]pyrene	1.230	1.181	4.0	104	-0.02	16.45
96	t	Indeno[1,2,3-cd]pyrene	0.922	1.022	-10.8	119	0.05	18.51
97	t	Dibenz(a,h)acridine	0.918	0.941	-2.5	111	-0.02	18.16
98	t	Dibenz[a,h]anthracene	0.894	0.978	-9.4	123	-0.05	18.57
99	t	7,12-Dimethylbenz(a)anthr	0.646	0.599	7.3	105	-0.07	15.85
100	t	Benzo[g,h,i]perylene	0.983	1.092	-11.1	123	-0.01	18.93

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105981A.D MP4681.M Tue Jul 26 15:57:58 2016

Continuing Calibration Summary

Job Number: JC24622 **Sample:** EP4702-CC4682
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P106356.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4702\P106356.D          Vial: 3
Acq On    : 26 Jul 2016   1:08 pm                   Operator: brittanp
Sample    : cc4682-25                               Inst    : MSP
Misc      : op95516,ep4702                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 26 14:07:52 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.
101 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	70	0.00	4.42
102	Benzaldehyde	1.027	1.130	-10.0	75	0.05	4.10
103 I	Phenanthrene-d10b	1.000	1.000	0.0	82	-0.04	8.42
104	Atrazine	0.181	0.217	-19.9	94	-0.01	8.07
105 I	Chrysene-d12b	1.000	1.000	0.0	87	-0.05	13.55
106	Benzidine	0.525	0.367	30.1#	52	-0.09	10.87
107 I	Naphthalene-d8b	1.000	1.000	0.0	78	-0.01	5.34
108	Hydroquinone	0.349	0.417	-19.5	89	0.03	5.65
109 I	Acenaphthene-d10b	1.000	1.000	0.0	84	-0.02	6.67
110	1,2,4,5-Tetrachlorobenzen	0.598	0.556	7.0	77	0.00	5.96

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105981A.D MP4681.M Tue Jul 26 15:57:59 2016

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55262.D
Acq On : 26 Jul 2016 12:37 pm
Operator : shaniceg
Sample : jc24622-1
Misc : op95827a,e3p2524,910,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 26 16:29:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.863	150	76544	4.00	ppm	# 0.00
14) Fluorene-d10	13.834	176	148851	4.00	ppm	-0.02
21) Fluoranthene-d10	17.998	212	209454	4.00	ppm	-0.03
31) Benzo(a)pyrene-d12	22.553	264	148616	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.838	112	285007	23.06	ppm	-0.09
Spiked Amount 50.000			Recovery = 46.12%			
4) Phenol-d5	6.401	99	276726	16.73	ppm	-0.06
Spiked Amount 50.000			Recovery = 33.46%			
7) Nitrobenzene-d5	7.970	82	463426	37.24	ppm	-0.05
Spiked Amount 50.000			Recovery = 74.48%			
15) 2-Fluorobiphenyl	11.508	172	930646	25.41	ppm	-0.05
Spiked Amount 50.000			Recovery = 50.82%			
20) 2,4,6-Tribromophenol	14.380	330	155856	33.45	ppm	0.00
Spiked Amount 50.000			Recovery = 66.90%			
28) Terphenyl-d14	18.786	244	639218	23.18	ppm	0.00
Spiked Amount 50.000			Recovery = 46.36%			

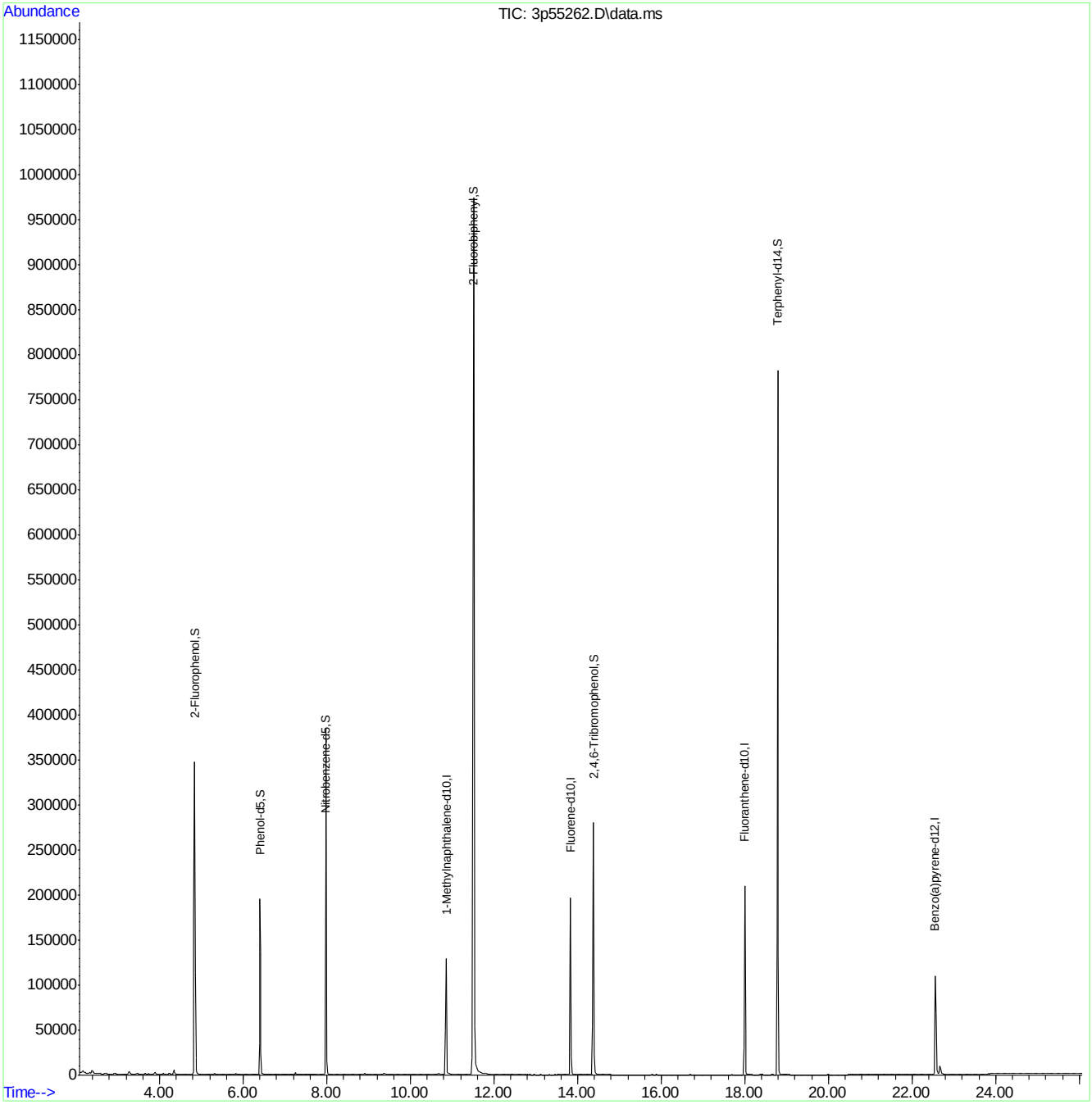
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55262.D
Acq On : 26 Jul 2016 12:37 pm
Operator : shaniceg
Sample : jc24622-1
Misc : op95827a,e3p2524,910,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 26 16:29:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55261.D
Acq On : 26 Jul 2016 12:04 pm
Operator : shaniceg
Sample : jc24622-2
Misc : op95827a,e3p2524,920,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 26 16:28:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.863	150	88215	4.00 ppm	# 0.00
14) Fluorene-d10	13.834	176	182808	4.00 ppm	-0.02
21) Fluoranthene-d10	17.998	212	250571	4.00 ppm	-0.03
31) Benzo(a)pyrene-d12	22.554	264	175966	4.00 ppm	-0.03
System Monitoring Compounds					
3) 2-Fluorophenol	4.838	112	327526	22.99 ppm	-0.09
Spiked Amount 50.000			Recovery = 45.98%		
4) Phenol-d5	6.401	99	322164	16.90 ppm	-0.06
Spiked Amount 50.000			Recovery = 33.80%		
7) Nitrobenzene-d5	7.989	82	524488	36.57 ppm	-0.04
Spiked Amount 50.000			Recovery = 73.14%		
15) 2-Fluorobiphenyl	11.508	172	1031608	22.93 ppm	-0.05
Spiked Amount 50.000			Recovery = 45.86%		
20) 2,4,6-Tribromophenol	14.380	330	176876	30.91 ppm	0.00
Spiked Amount 50.000			Recovery = 61.82%		
28) Terphenyl-d14	18.786	244	704878	21.37 ppm	0.00
Spiked Amount 50.000			Recovery = 42.74%		
Target Compounds					Qvalue

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

7.1.2

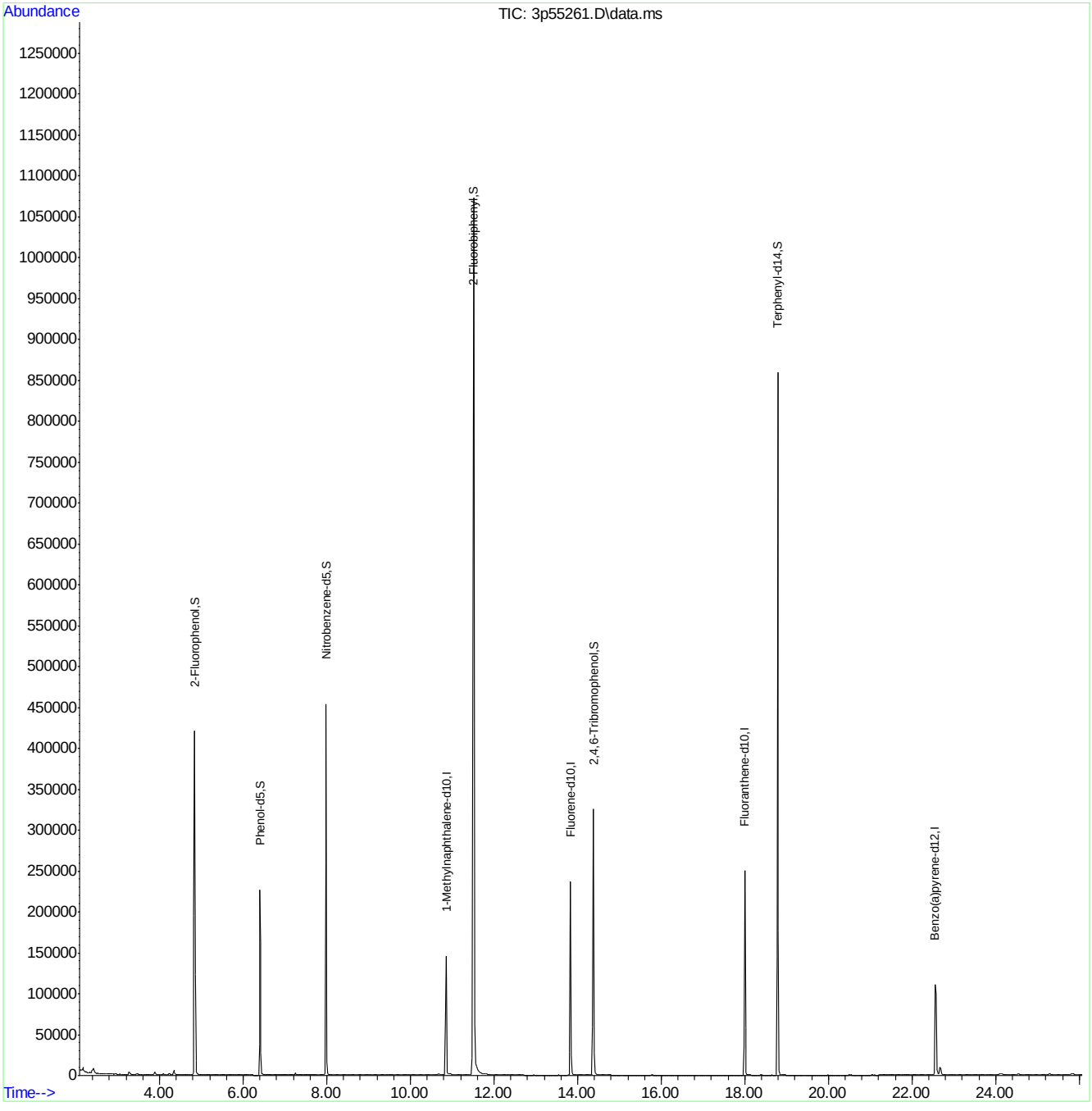
7

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55261.D
Acq On : 26 Jul 2016 12:04 pm
Operator : shaniceg
Sample : jc24622-2
Misc : op95827a,e3p2524,920,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 26 16:28:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



M3P2503SIM.M Tue Jul 26 16:28:53 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55263.D
Acq On : 26 Jul 2016 1:09 pm
Operator : shaniceg
Sample : jc24622-3
Misc : op95827a,e3p2524,890,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 26 16:29:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

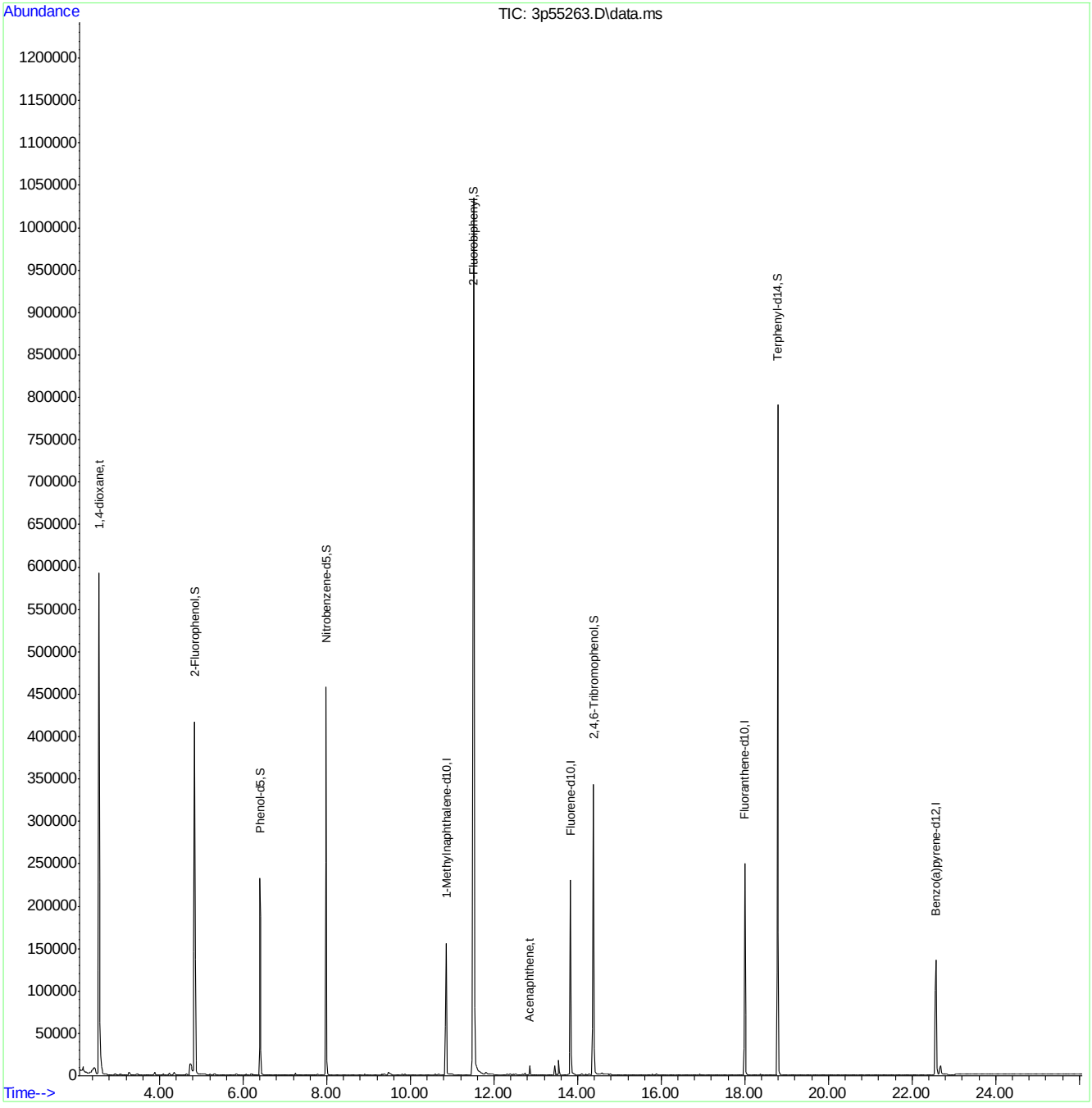
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.863	150	90966	4.00	ppm	# 0.00
14) Fluorene-d10	13.834	176	174774	4.00	ppm	-0.02
21) Fluoranthene-d10	17.998	212	257087	4.00	ppm	-0.03
31) Benzo(a)pyrene-d12	22.572	264	196795	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.837	112	304975	20.76	ppm	-0.09
Spiked Amount 50.000			Recovery = 41.52%			
4) Phenol-d5	6.401	99	329668	16.77	ppm	-0.06
Spiked Amount 50.000			Recovery = 33.54%			
7) Nitrobenzene-d5	7.989	82	518662	35.07	ppm	-0.04
Spiked Amount 50.000			Recovery = 70.14%			
15) 2-Fluorobiphenyl	11.508	172	990703	23.03	ppm	-0.05
Spiked Amount 50.000			Recovery = 46.06%			
20) 2,4,6-Tribromophenol	14.380	330	187294	34.23	ppm	0.00
Spiked Amount 50.000			Recovery = 68.46%			
28) Terphenyl-d14	18.786	244	649044	19.17	ppm	0.00
Spiked Amount 50.000			Recovery = 38.34%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.550	88	491172	53.59	ppm	# 48
17) Acenaphthene	12.849	153	7604	0.19	ppm	76

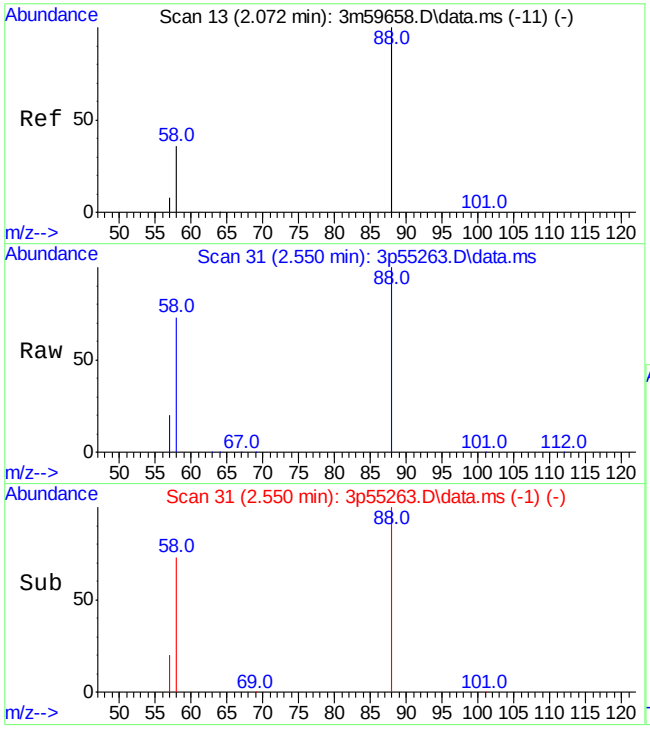
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55263.D
Acq On : 26 Jul 2016 1:09 pm
Operator : shaniceg
Sample : jc24622-3
Misc : op95827a,e3p2524,890,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 26 16:29:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

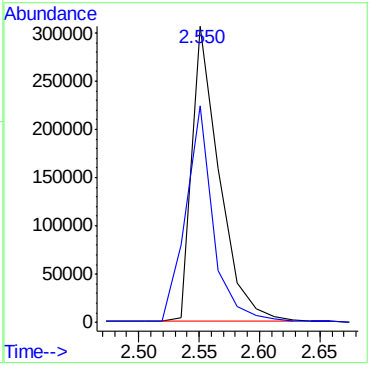


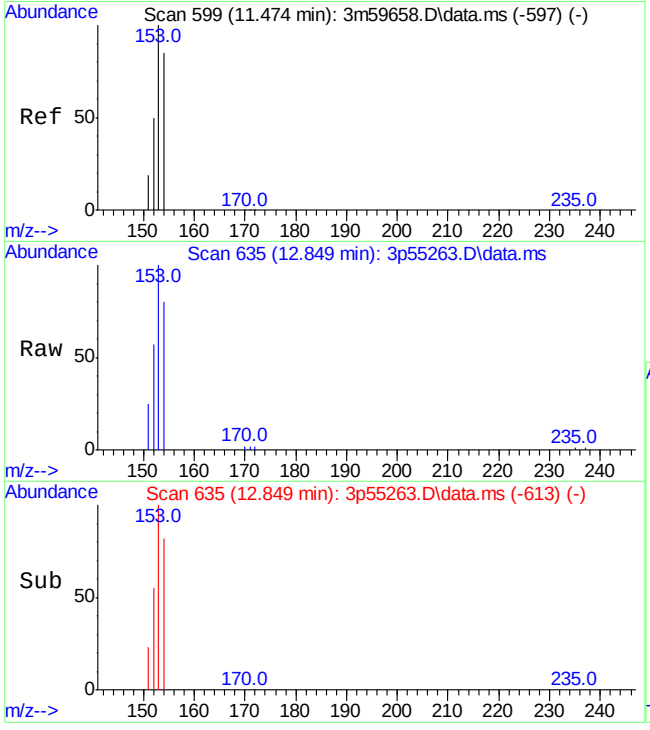


#2
1,4-dioxane
Concen: 53.59 ppm
RT: 2.550 min Scan# 31
Delta R.T. -0.016 min
Lab File: 3p55263.D
Acq: 26 Jul 2016 1:09 pm

Tgt Ion: 88 Resp: 491172

Ion	Ratio	Lower	Upper
88	100		
58	73.2	20.8	60.8#

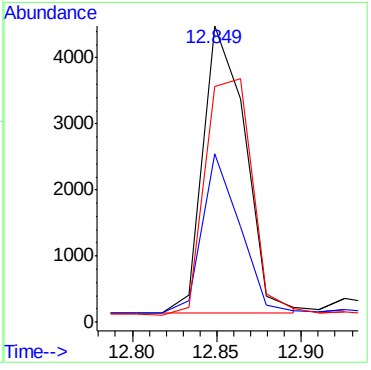




#17
Acenaphthene
Concen: 0.19 ppm
RT: 12.849 min Scan# 635
Delta R.T. -0.032 min
Lab File: 3p55263.D
Acq: 26 Jul 2016 1:09 pm

Tgt Ion:153 Resp: 7604

Ion	Ratio	Lower	Upper
153	100		
152	55.4	11.5	71.5
154	79.4	74.3	134.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106366.D Vial: 13
Acq On : 26 Jul 2016 4:22 pm Operator: brittanp
Sample : jc24622-3 Inst : MSP
Misc : op95827a,ep4702,890 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 16:44:53 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 26 14:07:52 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

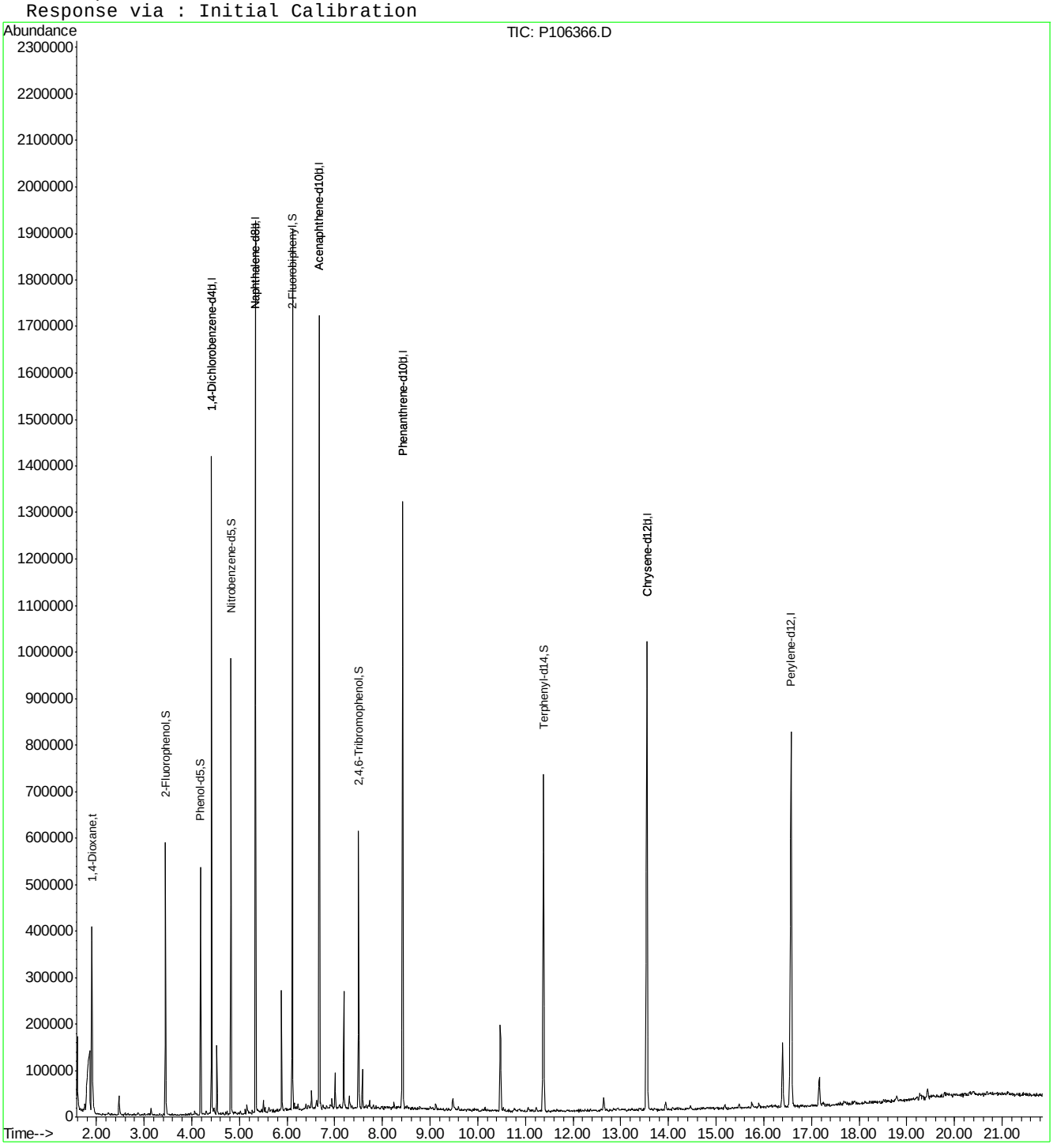
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.42	152	158518	40.00	ppm	0.00
24) Naphthalene-d8	5.34	136	556232	40.00	ppm	-0.01
47) Acenaphthene-d10	6.67	164	343157	40.00	ppm	-0.02
69) Phenanthrene-d10	8.42	188	602546	40.00	ppm	-0.04
83) Chrysene-d12	13.55	240	587836	40.00	ppm	-0.05
91) Perylene-d12	16.57	264	546312	40.00	ppm	-0.06
101) 1,4-Dichlorobenzene-d4b	4.42	152	158518	40.00	ppm	0.00
103) Phenanthrene-d10b	8.42	188	602546	40.00	ppm	-0.04
105) Chrysene-d12b	13.55	240	587836	40.00	ppm	-0.05
107) Naphthalene-d8b	5.34	136	556232	40.00	ppm	-0.01
109) Acenaphthene-d10b	6.67	164	343157	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.45	112	154394	28.96	ppm	-0.03
Spiked Amount 50.000			Recovery = 57.92%			
8) Phenol-d5	4.18	99	136774	18.19	ppm	0.00
Spiked Amount 50.000			Recovery = 36.38%			
25) Nitrobenzene-d5	4.82	82	221974	31.67	ppm	-0.03
Spiked Amount 50.000			Recovery = 63.34%			
51) 2-Fluorobiphenyl	6.11	172	407571	36.37	ppm	0.00
Spiked Amount 50.000			Recovery = 72.74%			
73) 2,4,6-Tribromophenol	7.50	330	59153	44.43	ppm	-0.03
Spiked Amount 50.000			Recovery = 88.86%			
85) Terphenyl-d14	11.38	244	346046	30.36	ppm	-0.04
Spiked Amount 50.000			Recovery = 60.72%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.91	88	187842	66.44	ppm	74

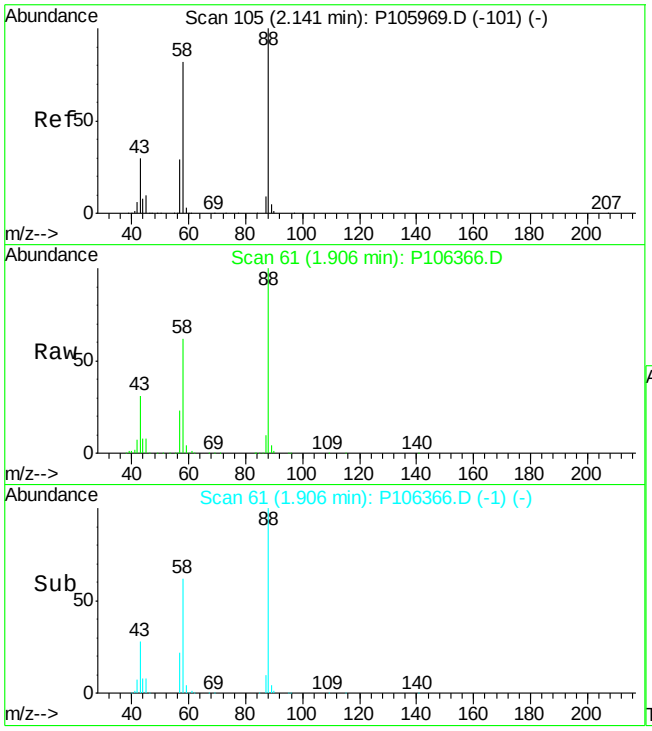
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106366.D Vial: 13
Acq On : 26 Jul 2016 4:22 pm Operator: brittanp
Sample : jc24622-3 Inst : MSP
Misc : op95827a,ep4702,890 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 17:09 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 26 14:07:52 2016
Response via : Initial Calibration

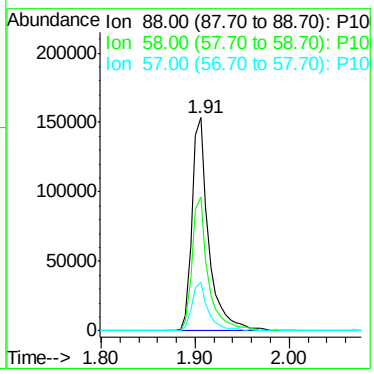




#2
1,4-Dioxane
Concen: 66.44 ppm
RT: 1.91 min Scan# 61
Delta R.T. -0.12 min
Lab File: P106366.D
Acq: 26 Jul 2016 4:22 pm

Tgt Ion: 88 Resp: 187842

Ion	Ratio	Lower	Upper
88	100		
58	62.4	61.3	121.3
57	22.4	0.0	57.6



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3007\
Data File : 3m63452.D
Acq On : 4 Aug 2016 1:24 pm
Operator : shaniceg
Sample : jc24622-4
Misc : op95821a,e3m3007,950
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 04 14:36:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 04 12:44:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.015	150	348006	4.00	ppm	0.00
14) Fluorene-d10	12.997	176	455199	4.00	ppm	-0.02
21) Fluoranthene-d10	17.244	212	783405	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	21.879	264	662732	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.075	112	875444	18.07	ppm	-0.11
Spiked Amount 50.000			Recovery = 36.14%			
4) Phenol-d5	5.686	99	935825	13.07	ppm	-0.07
Spiked Amount 50.000			Recovery = 26.14%			
7) Nitrobenzene-d5	7.146	82	1972431	29.33	ppm	-0.08
Spiked Amount 50.000			Recovery = 58.66%			
15) 2-Fluorobiphenyl	10.692	172	4341981	35.15	ppm	-0.07
Spiked Amount 50.000			Recovery = 70.30%			
20) 2,4,6-Tribromophenol	13.562	330	662836	34.80	ppm	0.00
Spiked Amount 50.000			Recovery = 69.60%			
28) Terphenyl-d14	18.078	244	4214530	35.25	ppm	0.01
Spiked Amount 50.000			Recovery = 70.50%			

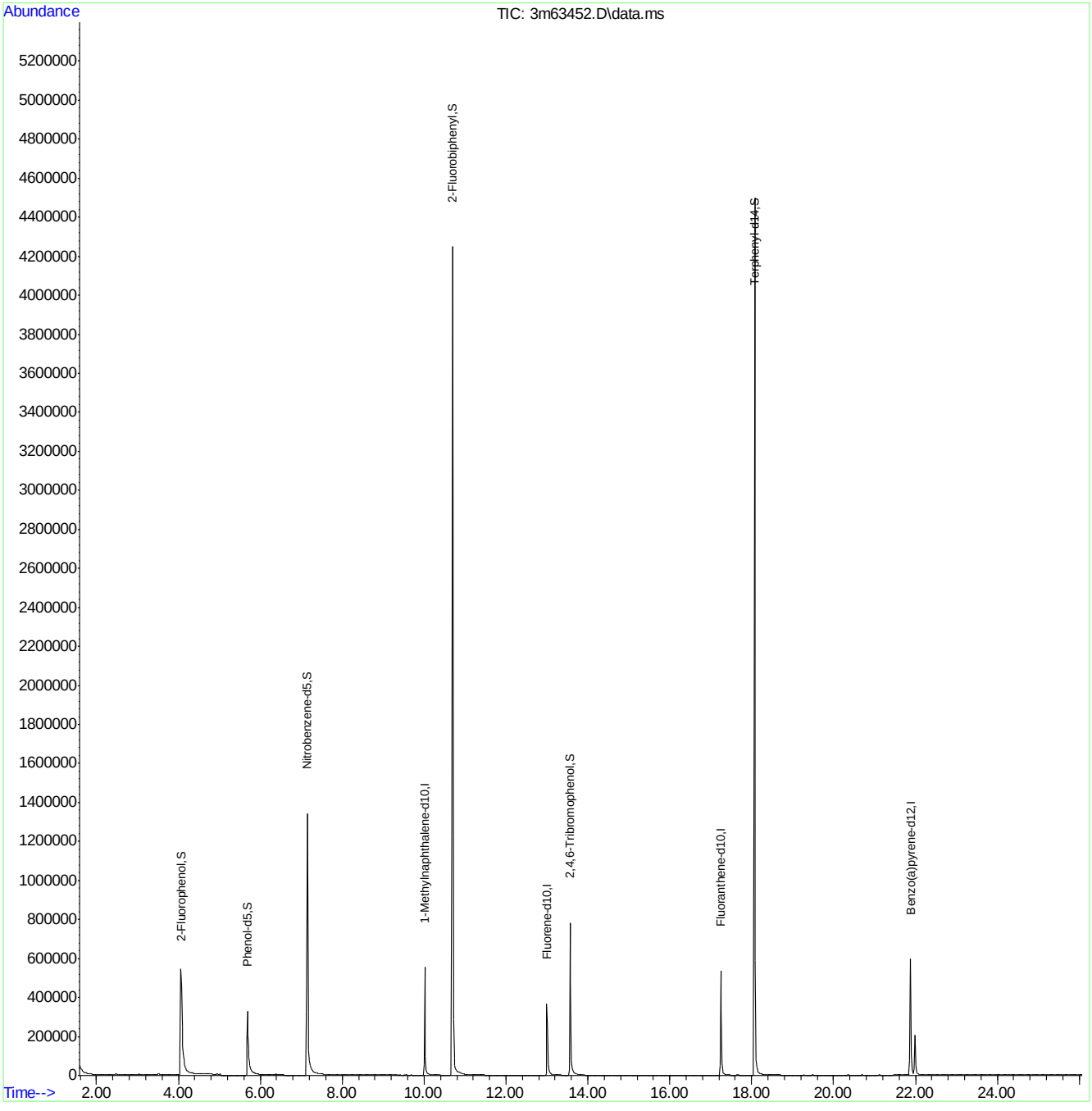
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3007\
Data File : 3m63452.D
Acq On : 4 Aug 2016 1:24 pm
Operator : shaniceg
Sample : jc24622-4
Misc : op95821a,e3m3007,950
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 04 14:36:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 04 12:44:35 2016
Response via : Initial Calibration



M3M2975SIM.M Thu Aug 04 14:36:44 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55257.D
Acq On : 26 Jul 2016 9:55 am
Operator : shaniceg
Sample : op95827a-MB1
Misc : op95827a,e3p2524,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 26 16:26:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.863	150	70617	4.00	ppm	# 0.00
14) Fluorene-d10	13.834	176	122269	4.00	ppm	-0.02
21) Fluoranthene-d10	17.998	212	174933	4.00	ppm	#-0.03
31) Benzo(a)pyrene-d12	22.572	264	131316	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.837	112	290000	25.43	ppm	-0.09
Spiked Amount 50.000			Recovery = 50.86%			
4) Phenol-d5	6.401	99	275707	18.07	ppm	-0.06
Spiked Amount 50.000			Recovery = 36.14%			
7) Nitrobenzene-d5	7.989	82	487506	42.46	ppm	-0.04
Spiked Amount 50.000			Recovery = 84.92%			
15) 2-Fluorobiphenyl	11.508	172	842573	28.00	ppm	-0.05
Spiked Amount 50.000			Recovery = 56.00%			
20) 2,4,6-Tribromophenol	14.380	330	175825	45.94	ppm	0.00
Spiked Amount 50.000			Recovery = 91.88%			
28) Terphenyl-d14	18.786	244	680311	29.54	ppm	0.00
Spiked Amount 50.000			Recovery = 59.08%			

Target Compounds Qvalue

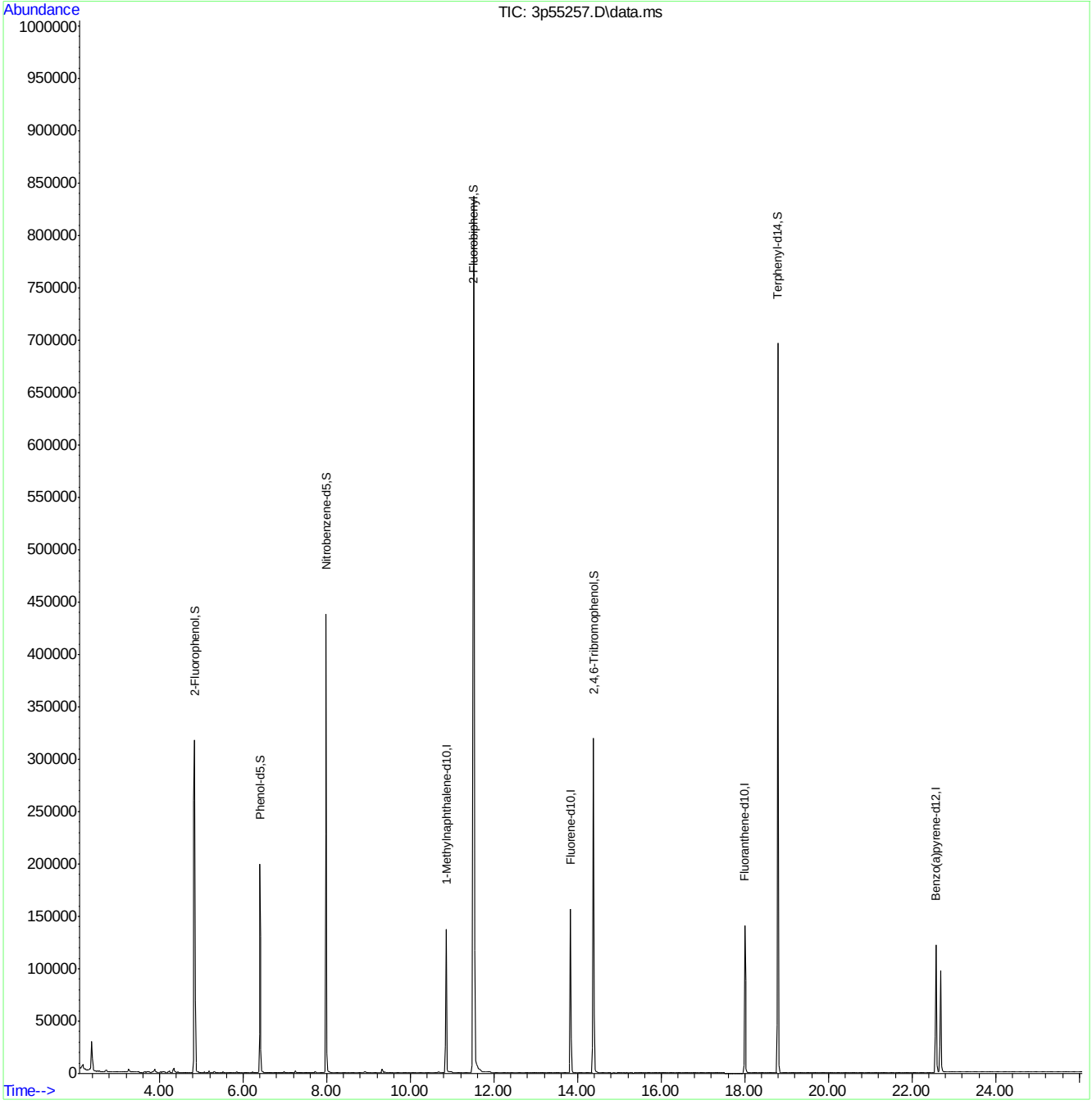
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55257.D
Acq On : 26 Jul 2016 9:55 am
Operator : shaniceg
Sample : op95827a-MB1
Misc : op95827a,e3p2524,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 26 16:26:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



M3P2503SIM.M Tue Jul 26 16:26:30 2016 Page: 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106365.D Vial: 12
Acq On : 26 Jul 2016 3:45 pm Operator: brittanp
Sample : op95827a-mb1 Inst : MSP
Misc : op95827a,ep4702,1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 16:07:34 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 26 14:07:52 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.42	152	191399	40.00	ppm	0.00
24) Naphthalene-d8	5.34	136	674727	40.00	ppm	-0.01
47) Acenaphthene-d10	6.67	164	415127	40.00	ppm	-0.02
69) Phenanthrene-d10	8.42	188	734142	40.00	ppm	-0.04
83) Chrysene-d12	13.55	240	714138	40.00	ppm	-0.05
91) Perylene-d12	16.58	264	670565	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4b	4.42	152	191399	40.00	ppm	0.00
103) Phenanthrene-d10b	8.42	188	734142	40.00	ppm	-0.04
105) Chrysene-d12b	13.55	240	714138	40.00	ppm	-0.05
107) Naphthalene-d8b	5.34	136	674727	40.00	ppm	-0.01
109) Acenaphthene-d10b	6.67	164	415127	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	3.44	112	151213	23.49	ppm	-0.03
Spiked Amount 50.000			Recovery = 46.98%			
8) Phenol-d5	4.18	99	128914	14.20	ppm	0.00
Spiked Amount 50.000			Recovery = 28.40%			
25) Nitrobenzene-d5	4.82	82	252555	29.70	ppm	-0.03
Spiked Amount 50.000			Recovery = 59.40%			
51) 2-Fluorobiphenyl	6.11	172	435055	32.09	ppm	0.00
Spiked Amount 50.000			Recovery = 64.18%			
73) 2,4,6-Tribromophenol	7.50	330	66616	41.06	ppm	-0.03
Spiked Amount 50.000			Recovery = 82.12%			
85) Terphenyl-d14	11.38	244	443542	32.04	ppm	-0.04
Spiked Amount 50.000			Recovery = 64.08%			

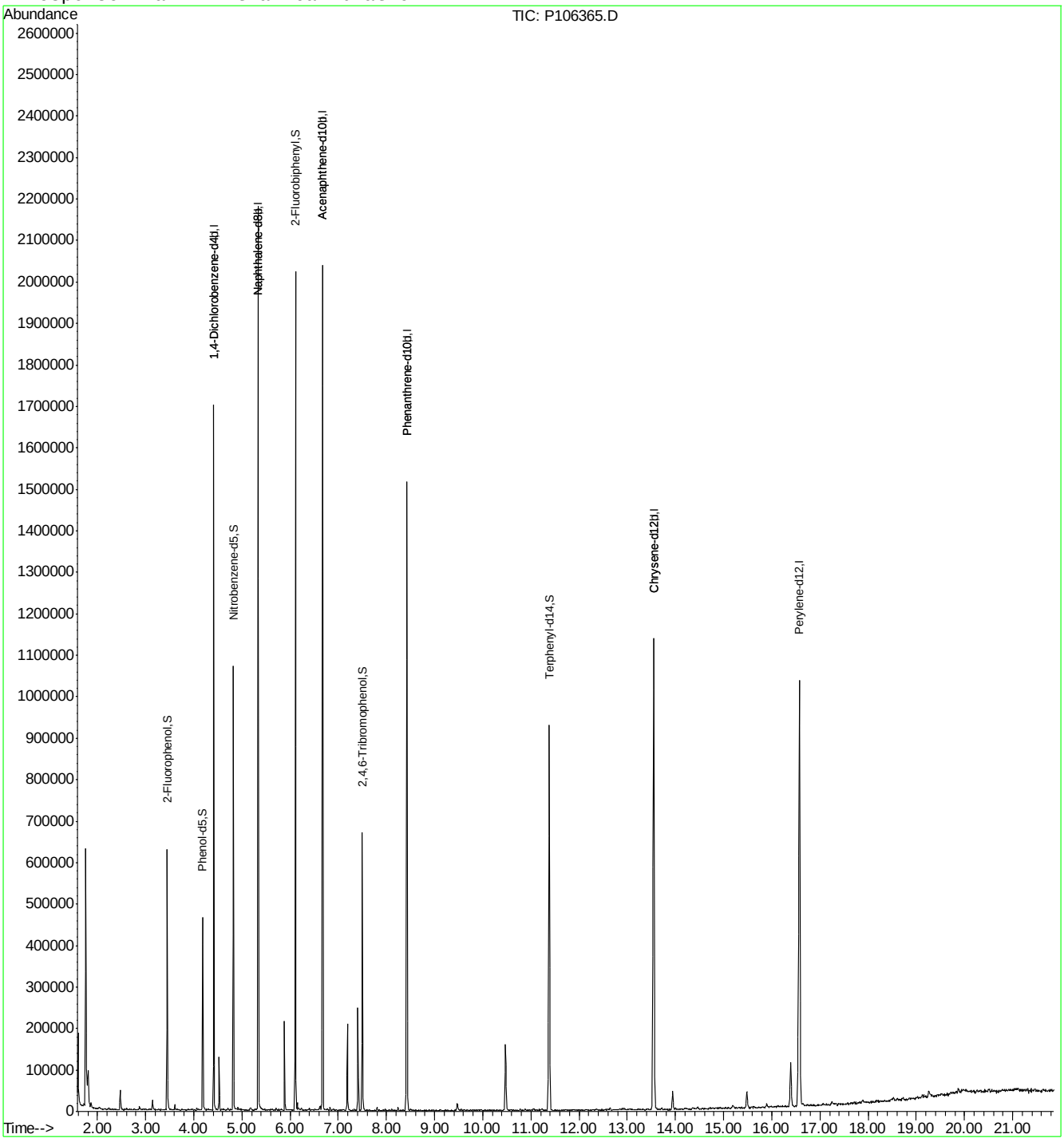
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
P106365.D MP4681.M Tue Jul 26 17:09:04 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106365.D Vial: 12
Acq On : 26 Jul 2016 3:45 pm Operator: brittanp
Sample : op95827a-mb1 Inst : MSP
Misc : op95827a,ep4702,1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 16:21 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 26 14:07:52 2016
Response via : Initial Calibration



P106365.D MP4681.M Tue Jul 26 17:09:04 2016 Page 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3002\
Data File : 3m63373.D
Acq On : 1 Aug 2016 2:34 pm
Operator : shaniceg
Sample : OP95821a-mb1
Misc : op95821a,e3m3002,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 02 08:22:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Aug 01 16:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.159	150	427979	4.00	ppm	-0.06
14) Fluorene-d10	13.164	176	585855	4.00	ppm	0.02
21) Fluoranthene-d10	17.419	212	714974	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.053	264	489779	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.198	112	1039908	17.46	ppm	-0.07
Spiked Amount 50.000			Recovery = 34.92%			
4) Phenol-d5	5.831	99	1134418	12.88	ppm	-0.04
Spiked Amount 50.000			Recovery = 25.76%			
7) Nitrobenzene-d5	7.278	82	2668267	32.26	ppm	-0.09
Spiked Amount 50.000			Recovery = 64.52%			
15) 2-Fluorobiphenyl	10.835	172	5000119	31.45	ppm	-0.03
Spiked Amount 50.000			Recovery = 62.90%			
20) 2,4,6-Tribromophenol	13.748	330	662731	27.04	ppm	0.04
Spiked Amount 50.000			Recovery = 54.08%			
28) Terphenyl-d14	18.238	244	4359673	39.96	ppm	-0.01
Spiked Amount 50.000			Recovery = 79.92%			

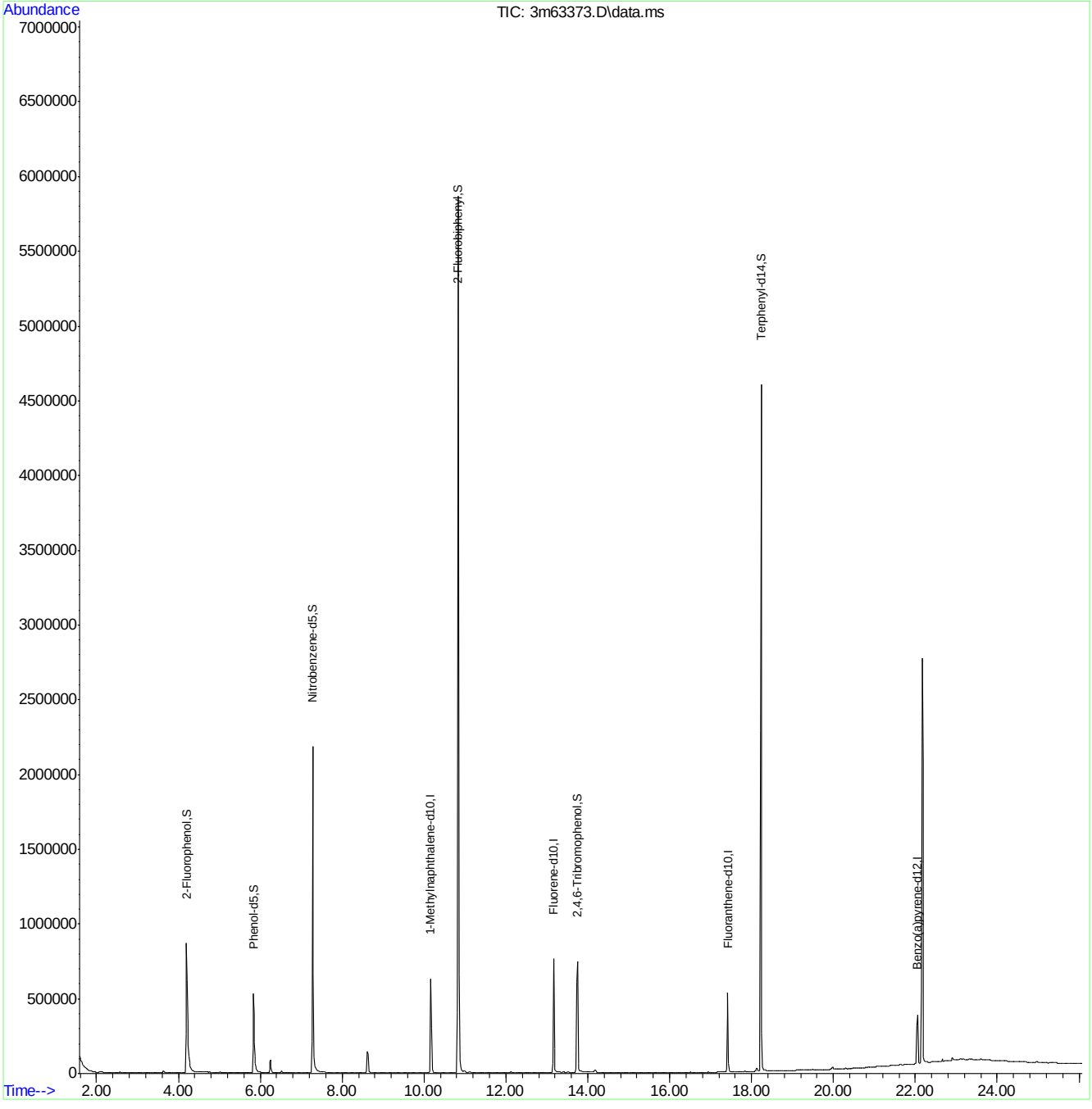
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3002\
Data File : 3m63373.D
Acq On : 1 Aug 2016 2:34 pm
Operator : shaniceg
Sample : OP95821a-mb1
Misc : op95821a,e3m3002,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 02 08:22:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Aug 01 16:13:09 2016
Response via : Initial Calibration



M3M2975SIM.M Tue Aug 02 08:26:20 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55410.D
Acq On : 2 Aug 2016 4:18 pm
Operator : ashleyd
Sample : op95821a-mb1
Misc : op95821a,e3p2534,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 03 08:50:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.768	150	92943	4.00 ppm	0.00
14) Fluorene-d10	13.739	176	146213	4.00 ppm	0.00
21) Fluoranthene-d10	17.905	212	209158	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	164232	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.760	112	291425	19.41 ppm	-0.13
Spiked Amount 50.000			Recovery = 38.82%		
4) Phenol-d5	6.328	99	287437	14.31 ppm	-0.08
Spiked Amount 50.000			Recovery = 28.62%		
7) Nitrobenzene-d5	7.895	82	490279	32.45 ppm	-0.06
Spiked Amount 50.000			Recovery = 64.90%		
15) 2-Fluorobiphenyl	11.412	172	917385	25.50 ppm	-0.05
Spiked Amount 50.000			Recovery = 51.00%		
20) 2,4,6-Tribromophenol	14.286	330	186352	40.72 ppm	0.01
Spiked Amount 50.000			Recovery = 81.44%		
28) Terphenyl-d14	18.693	244	884661	32.12 ppm	0.03
Spiked Amount 50.000			Recovery = 64.24%		

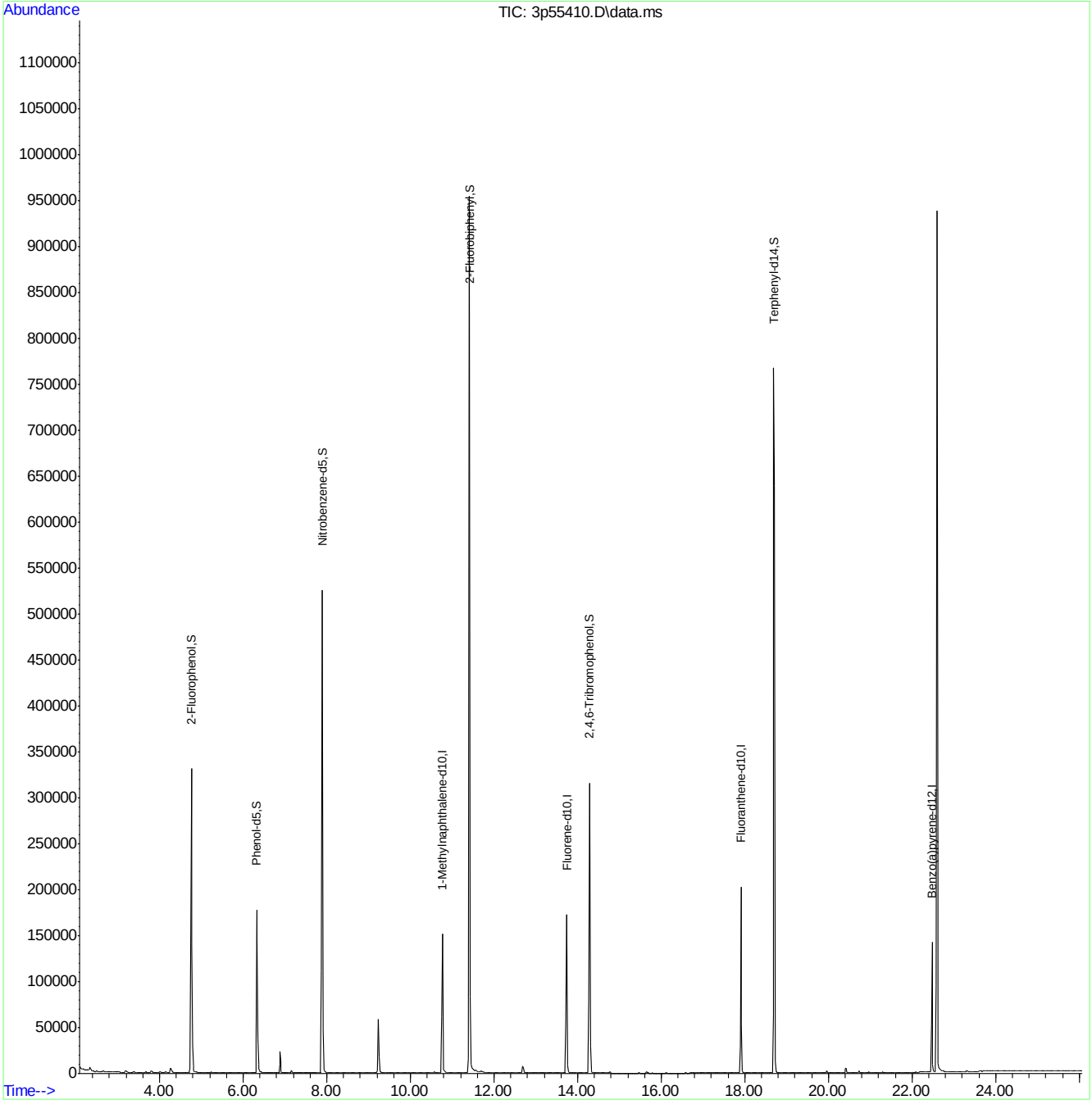
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55410.D
Acq On : 2 Aug 2016 4:18 pm
Operator : ashleyd
Sample : op95821a-mb1
Misc : op95821a,e3p2534,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 03 08:50:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration



M3P2503SIM.M Wed Aug 03 08:51:07 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3036\
Data File : 4m67187.D
Acq On : 5 Aug 2016 1:47 pm
Operator : shaniceg
Sample : op95821a-mb1
Misc : op95821a,e4m3036,1000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 14:27:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Aug 05 09:04:55 2016
Response via : Initial Calibration

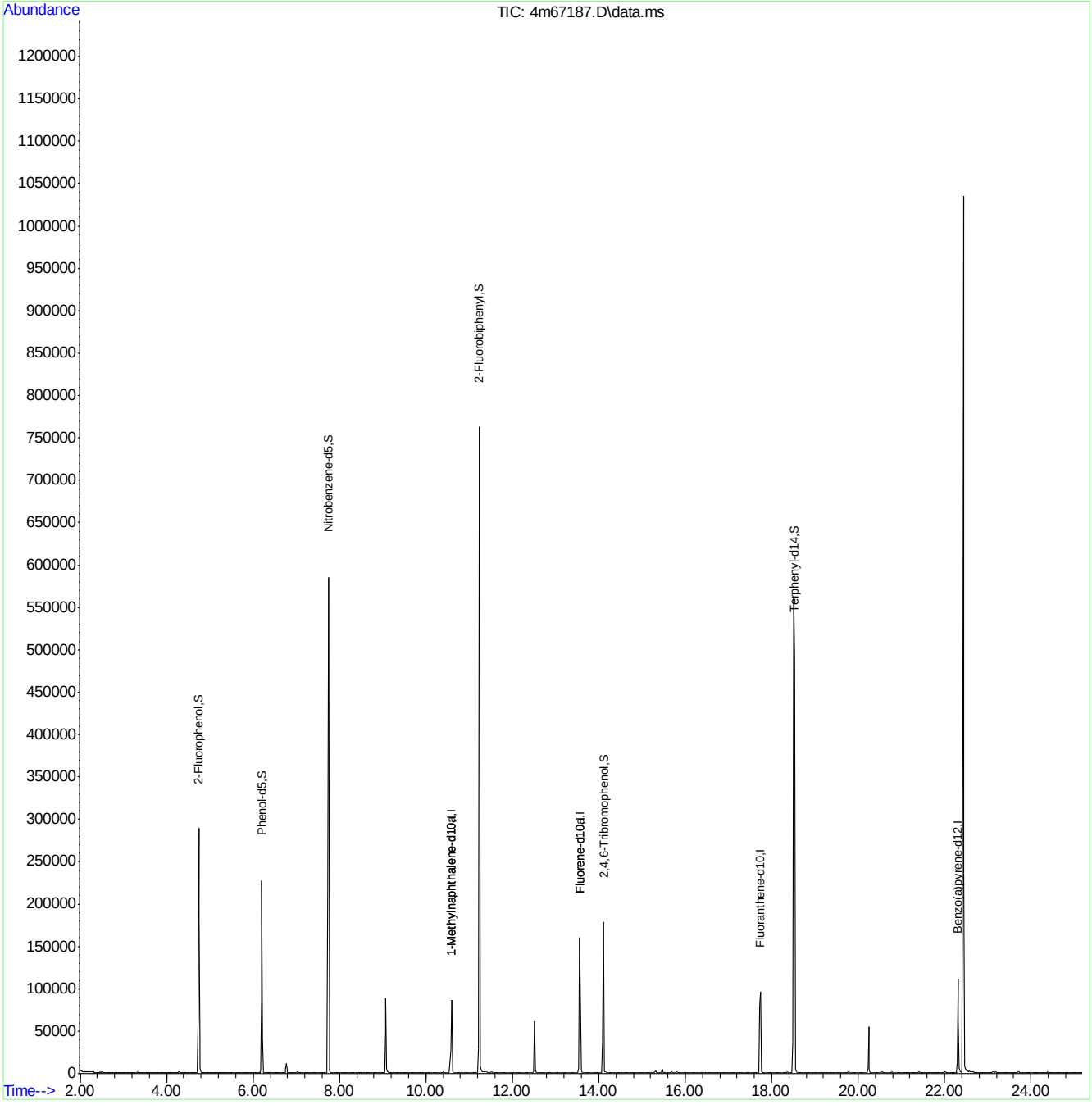
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.593	152	70824	4.00	ppm	#-0.10
12) Fluorene-d10	13.564	176	126011	4.00	ppm	-0.10
22) Fluoranthene-d10	17.740	212	156586	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	22.310	264	130952	4.00	ppm	-0.01
35) 1-Methylnaphthalene-d10a	10.593	152	70824	4.00	ppm	#-0.10
38) Fluorene-d10a	13.564	176	126011	4.00	ppm	-0.10
System Monitoring Compounds						
2) 2-Fluorophenol	4.744	112	219603	22.00	ppm	-0.08
Spiked Amount 50.000	Range 11 - 58		Recovery = 44.00%			
3) Phenol-d5	6.204	99	223176	14.79	ppm	-0.07
Spiked Amount 50.000			Recovery = 29.58%			
6) Nitrobenzene-d5	7.746	82	401895	33.14	ppm	-0.08
Spiked Amount 50.000			Recovery = 66.28%			
11) 2-Fluorobiphenyl	11.237	172	857949	38.19	ppm	-0.10
Spiked Amount 50.000			Recovery = 76.38%			
17) 2,4,6-Tribromophenol	14.113	330	137550	40.24	ppm	-0.10
Spiked Amount 50.000			Recovery = 80.48%			
25) Terphenyl-d14	18.531	244	917730	42.11	ppm	0.02
Spiked Amount 50.000			Recovery = 84.22%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3036\
Data File : 4m67187.D
Acq On : 5 Aug 2016 1:47 pm
Operator : shaniceg
Sample : op95821a-mb1
Misc : op95821a,e4m3036,1000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 14:27:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Aug 05 09:04:55 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55258.D
Acq On : 26 Jul 2016 10:27 am
Operator : shaniceg
Sample : op95827a-BS12
Misc : op95827a,e3p2524,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 26 16:27:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.863	150	56705	4.00	ppm	# 0.00
14) Fluorene-d10	13.834	176	114638	4.00	ppm	-0.02
21) Fluoranthene-d10	17.998	212	165444	4.00	ppm	-0.03
31) Benzo(a)pyrene-d12	22.554	264	109382	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.838	112	272823	29.79	ppm	-0.09
Spiked Amount 50.000			Recovery = 59.58%			
4) Phenol-d5	6.401	99	272231	22.21	ppm	-0.06
Spiked Amount 50.000			Recovery = 44.42%			
7) Nitrobenzene-d5	7.989	82	464495	50.38	ppm	-0.04
Spiked Amount 50.000			Recovery = 100.76%			
15) 2-Fluorobiphenyl	11.508	172	900845	31.93	ppm	-0.05
Spiked Amount 50.000			Recovery = 63.86%			
20) 2,4,6-Tribromophenol	14.380	330	169741	47.30	ppm	0.00
Spiked Amount 50.000			Recovery = 94.60%			
28) Terphenyl-d14	18.786	244	684957	31.44	ppm	0.00
Spiked Amount 50.000			Recovery = 62.88%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.566	88	3184	0.56	ppm	85
5) Phenol	6.425	94	27228	2.73	ppm #	67
6) bis(2-Chloroethyl)ether	6.546	93	10751	1.06	ppm #	58
8) Nitrobenzene	8.008	77	9115	0.89	ppm #	61
9) Naphthalene	9.383	128	33712	0.90	ppm	93
10) Hexachlorobutadiene	9.684	225	4150	0.66	ppm	95
11) 2-Methylnaphthalene	10.720	141	15503	0.77	ppm	72
13) Hexachlorocyclopentadiene	11.102	237	1283	0.46	ppm	92
16) Acenaphthylene	12.510	152	24307	0.60	ppm	87
17) Acenaphthene	12.849	153	20694	0.81	ppm	78
18) 4,6-dinitro-2-methylph...	14.041	198	11610	5.59	ppm	75
19) Fluorene	13.890	166	20458	0.85	ppm	96
22) Hexachlorobenzene	14.999	284	6453	0.71	ppm	84
23) Pentachlorophenol	15.416	266	17160	4.19	ppm	99
24) Phenanthrene	15.788	178	34142	0.89	ppm	99
25) Anthracene	15.880	178	25093	0.76	ppm	99
26) Fluoranthene	18.029	202	30873	0.93	ppm	99
27) Pyrene	18.415	202	33187	0.89	ppm	98
29) Benzo[a]anthracene	20.486	228	26341	0.85	ppm	95
30) Chrysene	20.548	228	27366	0.77	ppm	87
32) Benzo[b]fluoranthene	22.154	252	28787	0.79	ppm	90
33) Benzo[k]fluoranthene	22.185	252	21548	0.71	ppm	95
34) Benzo[a]pyrene	22.591	252	18722	0.66	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.115	276	23363	0.74	ppm	93
36) Dibenz[a,h]anthracene	24.152	278	17347	0.72	ppm	52
37) Benzo[g,h,i]perylene	24.510	276	20409	0.66	ppm	87

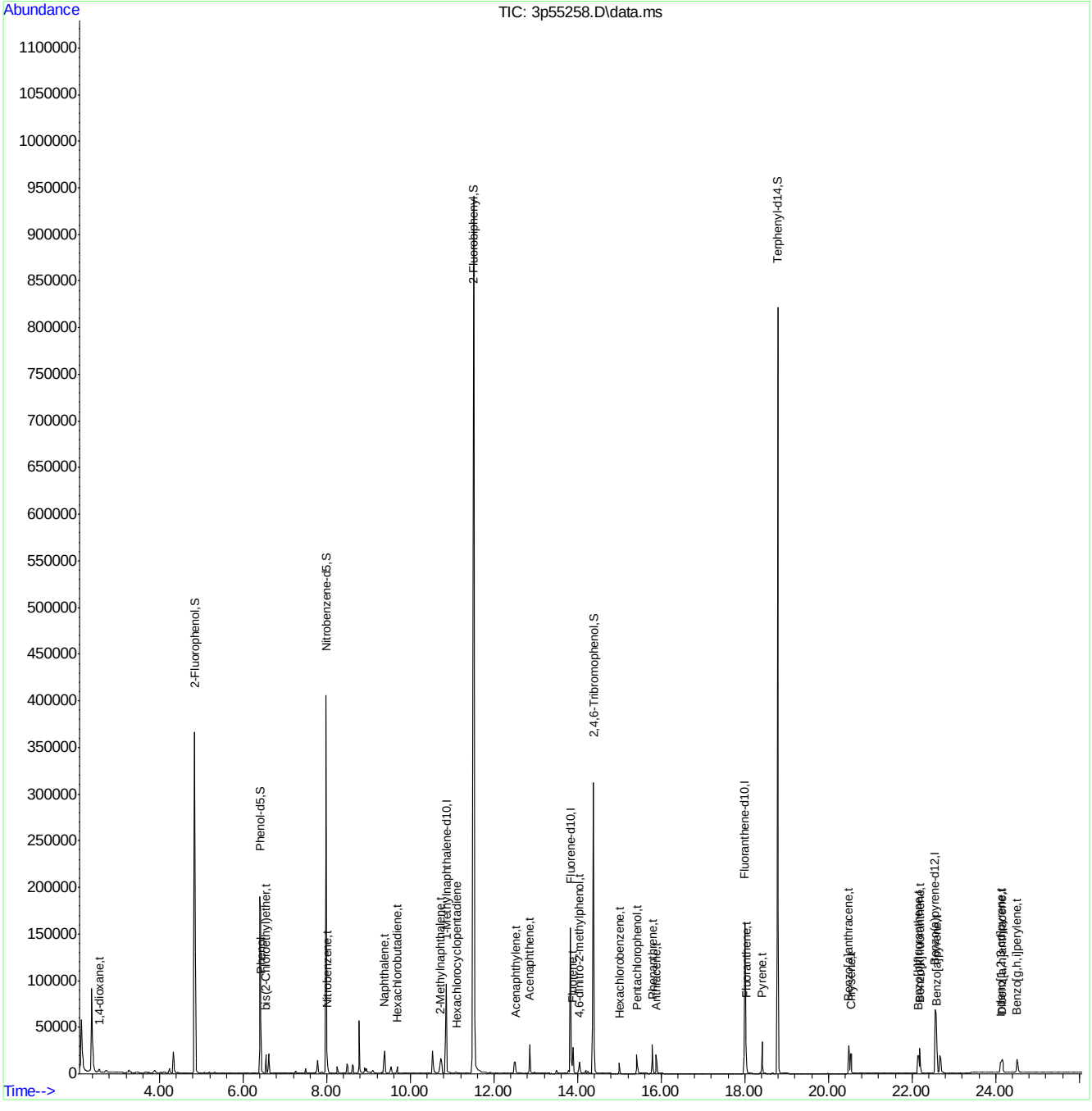
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55258.D
Acq On : 26 Jul 2016 10:27 am
Operator : shaniceg
Sample : op95827a-BS12
Misc : op95827a,e3p2524,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 26 16:27:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



M3P2503SIM.M Tue Jul 26 16:27:21 2016 Page: 2

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55411.D
Acq On : 2 Aug 2016 4:51 pm
Operator : ashleyd
Sample : op95821a-bs12
Misc : op95821a,e3p2534,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 03 08:51:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.768	150	86698	4.00	ppm	0.00
14) Fluorene-d10	13.739	176	140144	4.00	ppm	0.00
21) Fluoranthene-d10	17.905	212	206236	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	155549	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.760	112	322510	23.03	ppm	-0.13
Spiked Amount 50.000			Recovery = 46.06%			
4) Phenol-d5	6.328	99	331259	17.68	ppm	-0.08
Spiked Amount 50.000			Recovery = 35.36%			
7) Nitrobenzene-d5	7.895	82	548494	38.91	ppm	-0.06
Spiked Amount 50.000			Recovery = 77.82%			
15) 2-Fluorobiphenyl	11.412	172	992725	28.78	ppm	-0.05
Spiked Amount 50.000			Recovery = 57.56%			
20) 2,4,6-Tribromophenol	14.286	330	194177	44.26	ppm	0.01
Spiked Amount 50.000			Recovery = 88.52%			
28) Terphenyl-d14	18.693	244	873761	32.18	ppm	0.03
Spiked Amount 50.000			Recovery = 64.36%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.489	88	4828	0.55	ppm	90
5) Phenol	6.352	94	38323	2.49	ppm #	49
6) bis(2-Chloroethyl)ether	6.461	93	12572	0.81	ppm	93
8) Nitrobenzene	7.932	77	12076	0.77	ppm	87
9) Naphthalene	9.288	128	43661	0.77	ppm	92
10) Hexachlorobutadiene	9.589	225	5694	0.59	ppm	97
11) 2-Methylnaphthalene	10.624	141	20011	0.65	ppm	73
13) Hexachlorocyclopentadiene	11.006	237	1744	0.43	ppm	89
16) Acenaphthylene	12.391	152	32425	0.66	ppm	97
17) Acenaphthene	12.756	153	28092	0.90	ppm	89
18) 4,6-dinitro-2-methylph...	13.947	198	18152	6.75	ppm #	47
19) Fluorene	13.796	166	23031	0.78	ppm	88
22) Hexachlorobenzene	14.891	284	8104	0.71	ppm	71
23) Pentachlorophenol	15.323	266	27395	5.29	ppm	96
24) Phenanthrene	15.679	178	41113	0.86	ppm	99
25) Anthracene	15.787	178	33193	0.81	ppm	99
26) Fluoranthene	17.936	202	36512	0.88	ppm	99
27) Pyrene	18.322	202	42703	0.92	ppm	97
29) Benzo[a]anthracene	20.393	228	36680	0.95	ppm	99
30) Chrysene	20.455	228	32908	0.75	ppm	99
32) Benzo[b]fluoranthene	22.062	252	35432	0.69	ppm	96
33) Benzo[k]fluoranthene	22.092	252	30719	0.71	ppm	98
34) Benzo[a]pyrene	22.497	252	23646	0.58	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.020	276	32335	0.72	ppm	93
36) Dibenz[a,h]anthracene	24.058	278	25067	0.73	ppm	54
37) Benzo[g,h,i]perylene	24.397	276	26837	0.61	ppm	88

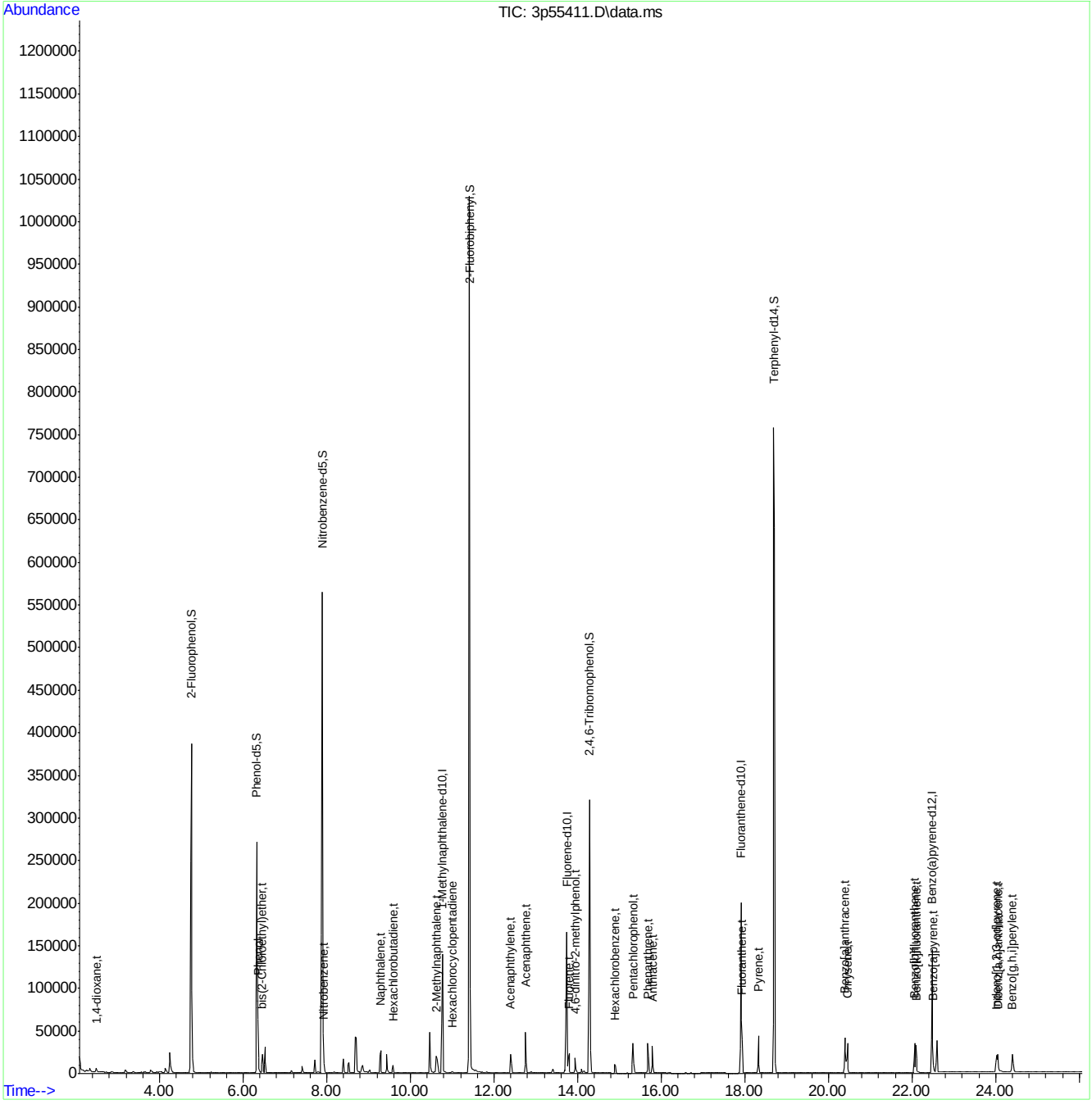
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55411.D
Acq On : 2 Aug 2016 4:51 pm
Operator : ashleyd
Sample : op95821a-bs12
Misc : op95821a,e3p2534,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 03 08:51:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55259.D
Acq On : 26 Jul 2016 11:00 am
Operator : shaniceg
Sample : op95827a-MS
Misc : op95827a,e3p2524,920,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 26 16:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

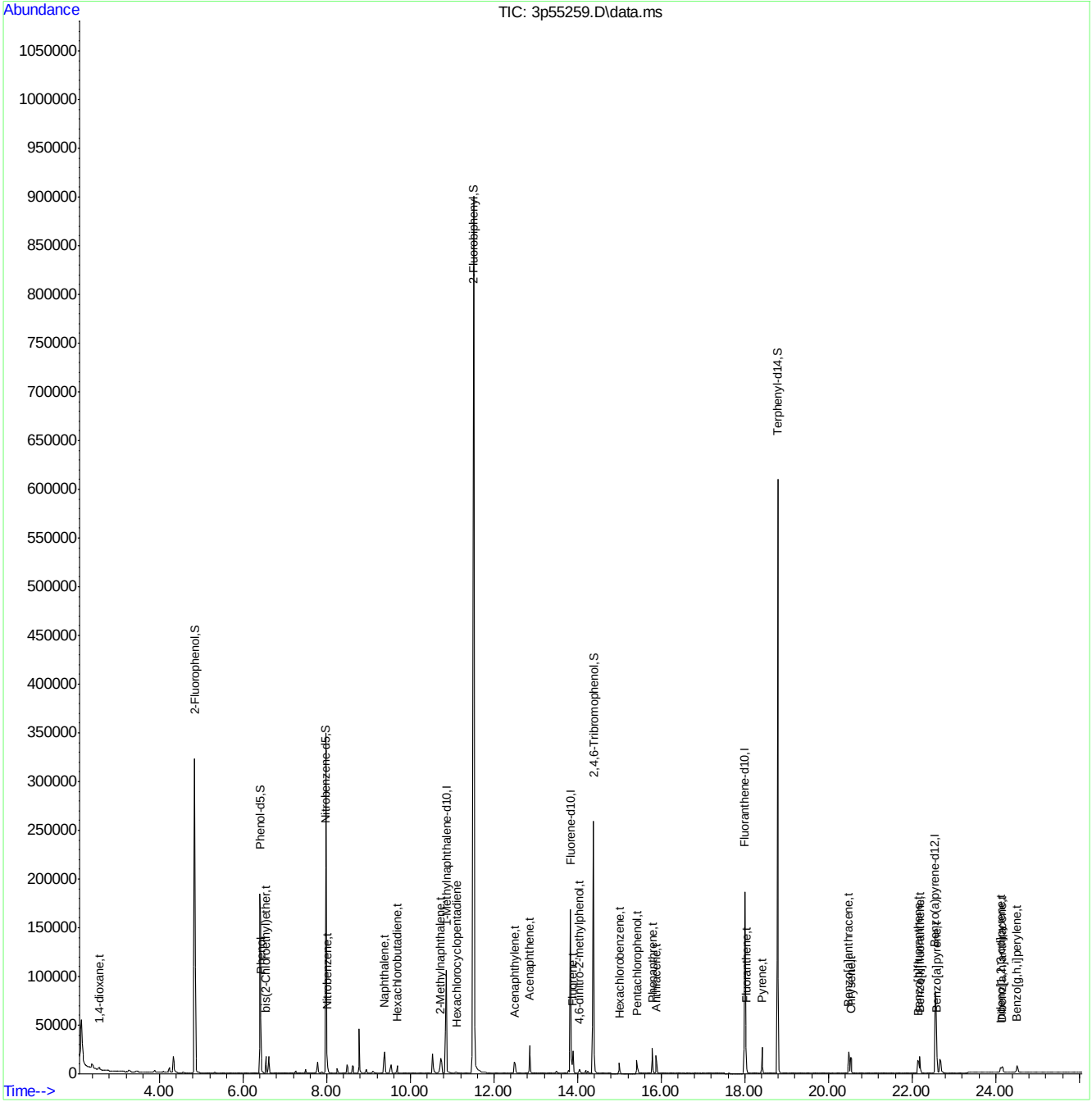
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.863	150	64323	4.00	ppm	# 0.00
14) Fluorene-d10	13.834	176	126122	4.00	ppm	-0.02
21) Fluoranthene-d10	17.998	212	187029	4.00	ppm	-0.03
31) Benzo(a)pyrene-d12	22.554	264	124432	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.838	112	243721	23.46	ppm	-0.09
Spiked Amount 50.000			Recovery = 46.92%			
4) Phenol-d5	6.401	99	251268	18.08	ppm	-0.06
Spiked Amount 50.000			Recovery = 36.16%			
7) Nitrobenzene-d5	7.970	82	414666	39.65	ppm	-0.05
Spiked Amount 50.000			Recovery = 79.30%			
15) 2-Fluorobiphenyl	11.508	172	852992	27.48	ppm	-0.05
Spiked Amount 50.000			Recovery = 54.96%			
20) 2,4,6-Tribromophenol	14.380	330	143986	36.47	ppm	0.00
Spiked Amount 50.000			Recovery = 72.94%			
28) Terphenyl-d14	18.786	244	498036	20.22	ppm	0.00
Spiked Amount 50.000			Recovery = 40.44%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.566	88	3578	0.55	ppm	83
5) Phenol	6.425	94	24705	2.13	ppm	# 69
6) bis(2-Chloroethyl)ether	6.546	93	9521	0.83	ppm	# 58
8) Nitrobenzene	8.008	77	8026	0.69	ppm	# 62
9) Naphthalene	9.383	128	32129	0.76	ppm	92
10) Hexachlorobutadiene	9.684	225	4806	0.67	ppm	96
11) 2-Methylnaphthalene	10.720	141	14745	0.65	ppm	71
13) Hexachlorocyclopentadiene	11.102	237	1435	0.46	ppm	91
16) Acenaphthylene	12.486	152	21048	0.47	ppm	94
17) Acenaphthene	12.849	153	18536	0.66	ppm	78
18) 4,6-dinitro-2-methylph...	14.041	198	4519	2.55	ppm	56
19) Fluorene	13.890	166	17467	0.66	ppm	96
22) Hexachlorobenzene	14.999	284	6303	0.61	ppm	84
23) Pentachlorophenol	15.417	266	12490	2.80	ppm	98
24) Phenanthrene	15.788	178	29877	0.69	ppm	99
25) Anthracene	15.880	178	21691	0.58	ppm	99
26) Fluoranthene	18.029	202	24708	0.66	ppm	99
27) Pyrene	18.415	202	27137	0.65	ppm	98
29) Benzo[a]anthracene	20.486	228	19915	0.57	ppm	96
30) Chrysene	20.532	228	20767	0.52	ppm	94
32) Benzo[b]fluoranthene	22.139	252	18449	0.45	ppm	91
33) Benzo[k]fluoranthene	22.185	252	16296	0.47	ppm	96
34) Benzo[a]pyrene	22.591	252	12516	0.39	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.115	276	9996	0.28	ppm	92
36) Dibenz[a,h]anthracene	24.152	278	6991	0.25	ppm	53
37) Benzo[g,h,i]perylene	24.510	276	9536	0.27	ppm	87

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55259.D
Acq On : 26 Jul 2016 11:00 am
Operator : shaniceg
Sample : op95827a-MS
Misc : op95827a,e3p2524,920,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 26 16:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55260.D
Acq On : 26 Jul 2016 11:32 am
Operator : shaniceg
Sample : op95827a-MSD
Misc : op95827a,e3p2524,910,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 26 16:28:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

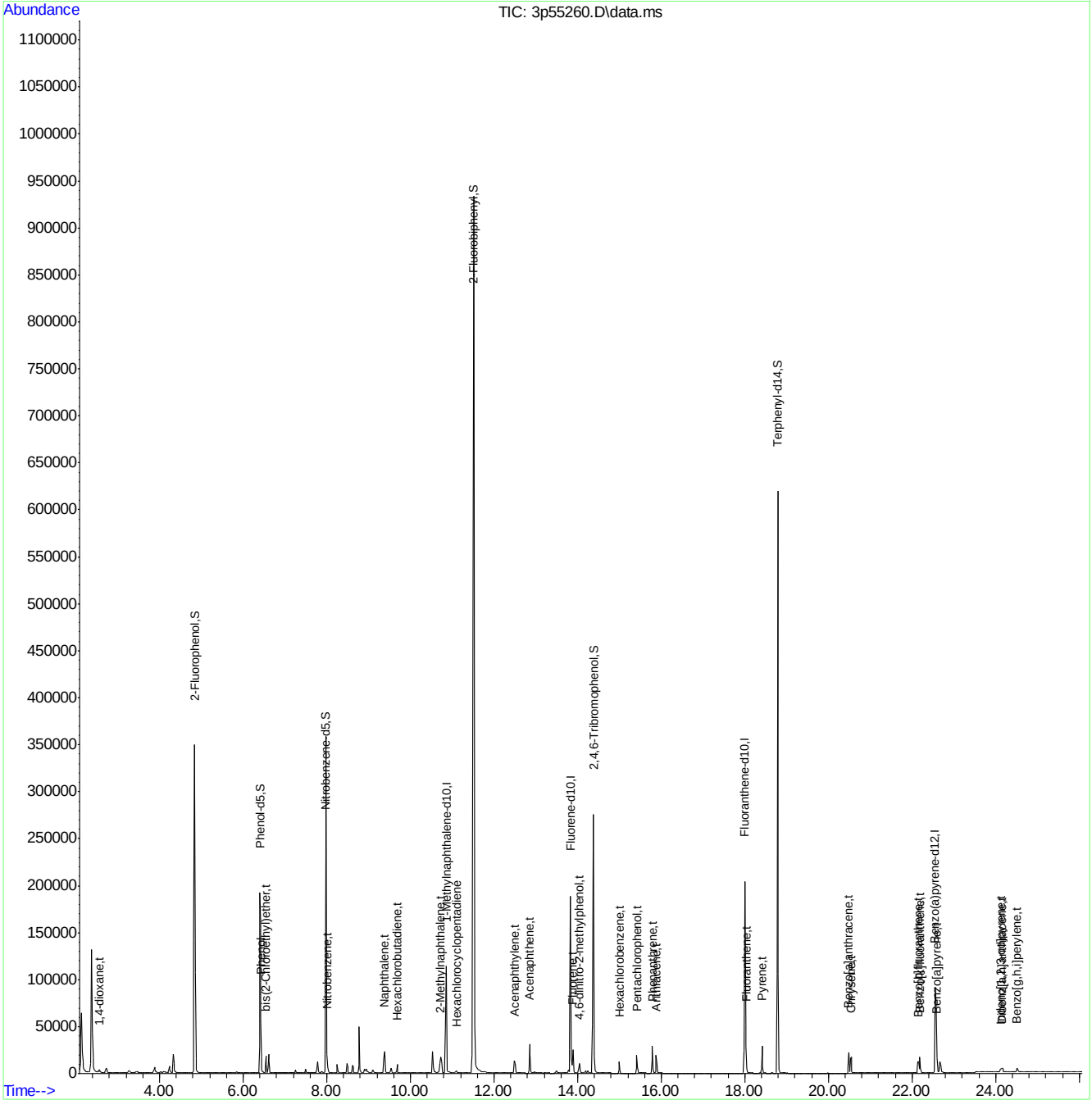
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.863	150	69373	4.00	ppm	# 0.00
14) Fluorene-d10	13.834	176	141279	4.00	ppm	-0.02
21) Fluoranthene-d10	17.998	212	200378	4.00	ppm	-0.03
31) Benzo(a)pyrene-d12	22.553	264	137707	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.838	112	265394	23.69	ppm	-0.09
Spiked Amount 50.000			Recovery = 47.38%			
4) Phenol-d5	6.401	99	270506	18.04	ppm	-0.06
Spiked Amount 50.000			Recovery = 36.08%			
7) Nitrobenzene-d5	7.970	82	436728	38.72	ppm	-0.05
Spiked Amount 50.000			Recovery = 77.44%			
15) 2-Fluorobiphenyl	11.508	172	888436	25.55	ppm	-0.05
Spiked Amount 50.000			Recovery = 51.10%			
20) 2,4,6-Tribromophenol	14.380	330	151300	34.21	ppm	0.00
Spiked Amount 50.000			Recovery = 68.42%			
28) Terphenyl-d14	18.786	244	502542	19.05	ppm	0.00
Spiked Amount 50.000			Recovery = 38.10%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.566	88	2780	0.40	ppm	87
5) Phenol	6.425	94	26784	2.14	ppm	# 65
6) bis(2-Chloroethyl)ether	6.546	93	10065	0.81	ppm	# 59
8) Nitrobenzene	8.008	77	8834	0.71	ppm	# 62
9) Naphthalene	9.382	128	34216	0.75	ppm	92
10) Hexachlorobutadiene	9.684	225	5226	0.68	ppm	97
11) 2-Methylnaphthalene	10.720	141	15437	0.63	ppm	72
13) Hexachlorocyclopentadiene	11.102	237	1752	0.50	ppm	91
16) Acenaphthylene	12.486	152	23211	0.47	ppm	95
17) Acenaphthene	12.849	153	19509	0.62	ppm	78
18) 4,6-dinitro-2-methylph...	14.041	198	9814	4.19	ppm	73
19) Fluorene	13.890	166	18579	0.62	ppm	94
22) Hexachlorobenzene	14.999	284	6904	0.62	ppm	85
23) Pentachlorophenol	15.416	266	15425	3.19	ppm	96
24) Phenanthrene	15.788	178	31845	0.68	ppm	99
25) Anthracene	15.880	178	22919	0.58	ppm	99
26) Fluoranthene	18.029	202	26169	0.65	ppm	99
27) Pyrene	18.415	202	28902	0.64	ppm	97
29) Benzo[a]anthracene	20.486	228	20740	0.55	ppm	96
30) Chrysene	20.548	228	21081	0.49	ppm	88
32) Benzo[b]fluoranthene	22.139	252	17867	0.39	ppm	90
33) Benzo[k]fluoranthene	22.185	252	16426	0.43	ppm	95
34) Benzo[a]pyrene	22.591	252	11330	0.31	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.115	276	7494	0.19	ppm	92
36) Dibenz[a,h]anthracene	24.152	278	5456	0.18	ppm	55
37) Benzo[g,h,i]perylene	24.510	276	6180	0.16	ppm	87

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55260.D
Acq On : 26 Jul 2016 11:32 am
Operator : shaniceg
Sample : op95827a-MSD
Misc : op95827a,e3p2524,910,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 26 16:28:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55412.D
Acq On : 2 Aug 2016 5:23 pm
Operator : ashleyd
Sample : op95821a-ms
Misc : op95821a,e3p2534,500,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 03 09:35:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

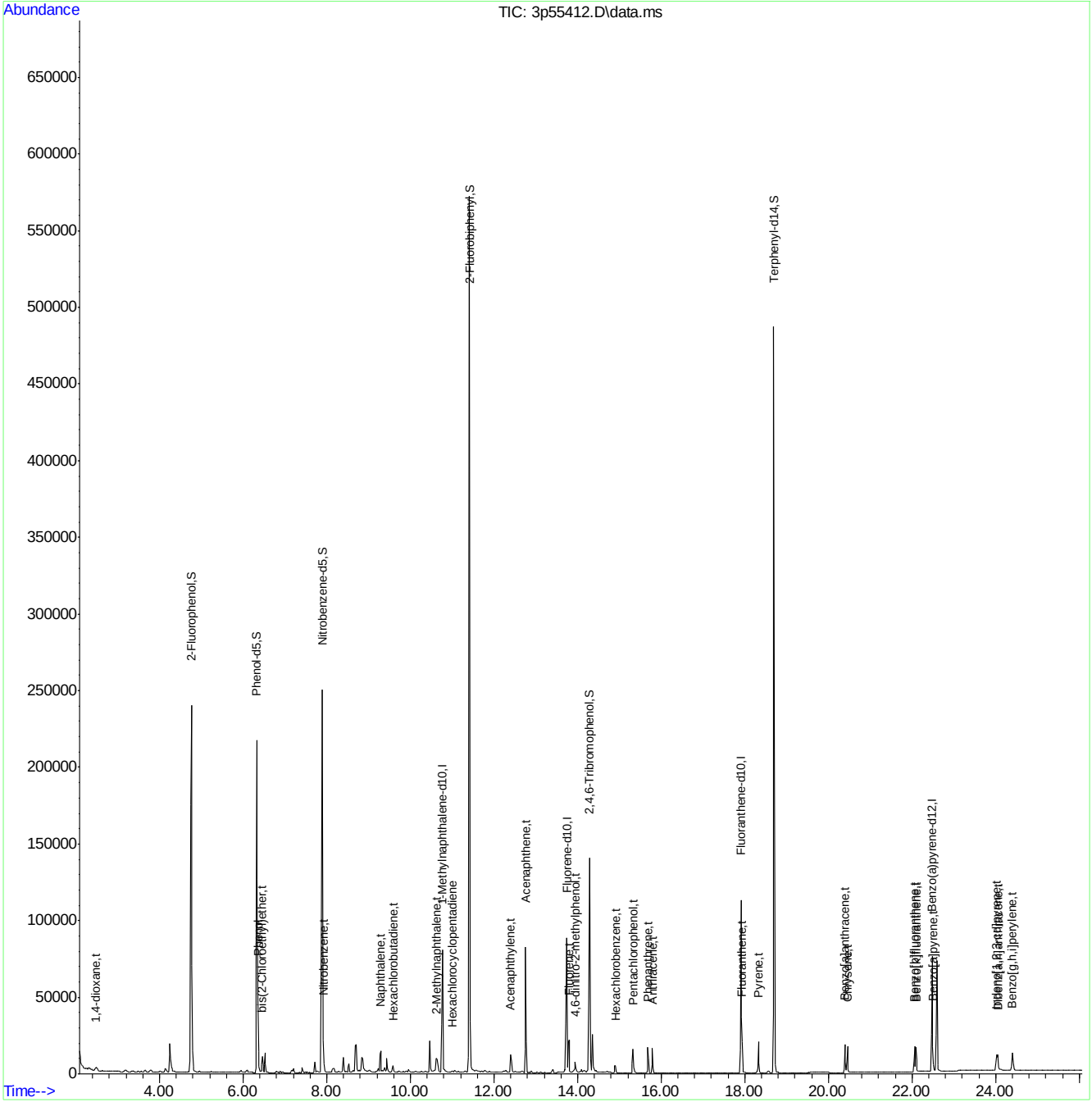
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.768	150	48865	4.00	ppm	0.00
14) Fluorene-d10	13.740	176	75993	4.00	ppm	0.00
21) Fluoranthene-d10	17.905	212	117429	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	84086	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.760	112	218857	27.73	ppm	-0.13
Spiked Amount 50.000			Recovery = 55.46%			
4) Phenol-d5	6.328	99	276135	26.15	ppm	-0.08
Spiked Amount 50.000			Recovery = 52.30%			
7) Nitrobenzene-d5	7.895	82	252653	31.80	ppm	-0.06
Spiked Amount 50.000			Recovery = 63.60%			
15) 2-Fluorobiphenyl	11.412	172	543009	29.04	ppm	-0.05
Spiked Amount 50.000			Recovery = 58.08%			
20) 2,4,6-Tribromophenol	14.286	330	86906	36.53	ppm	0.01
Spiked Amount 50.000			Recovery = 73.06%			
28) Terphenyl-d14	18.693	244	450663	29.15	ppm	0.03
Spiked Amount 50.000			Recovery = 58.30%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.473	88	4120	0.84	ppm #	34
5) Phenol	6.353	94	28675	3.40	ppm #	48
6) bis(2-Chloroethyl)ether	6.461	93	5888	0.68	ppm	91
8) Nitrobenzene	7.914	77	6058	0.69	ppm #	57
9) Naphthalene	9.288	128	21434	0.67	ppm	88
10) Hexachlorobutadiene	9.590	225	2855	0.52	ppm	97
11) 2-Methylnaphthalene	10.624	141	9663	0.56	ppm	72
13) Hexachlorocyclopentadiene	11.006	237	745	0.36	ppm	89
16) Acenaphthylene	12.391	152	16100	0.60	ppm	96
17) Acenaphthene	12.756	153	46287	2.73	ppm	89
18) 4,6-dinitro-2-methylph...	13.947	198	6521	4.93	ppm	62
19) Fluorene	13.796	166	23083	1.44	ppm	86
22) Hexachlorobenzene	14.906	284	4067	0.63	ppm	98
23) Pentachlorophenol	15.324	266	11886	4.10	ppm	93
24) Phenanthrene	15.679	178	19838	0.73	ppm	99
25) Anthracene	15.787	178	17114	0.73	ppm	99
26) Fluoranthene	17.936	202	19173	0.81	ppm	99
27) Pyrene	18.323	202	20498	0.78	ppm	99
29) Benzo[a]anthracene	20.393	228	16720	0.76	ppm	100
30) Chrysene	20.455	228	16055	0.64	ppm	99
32) Benzo[b]fluoranthene	22.062	252	16888	0.61	ppm	96
33) Benzo[k]fluoranthene	22.093	252	15030	0.64	ppm	99
34) Benzo[a]pyrene	22.497	252	12264	0.56	ppm	96
35) Indeno[1,2,3-cd]pyrene	24.021	276	16750	0.69	ppm	93
36) Dibenz[a,h]anthracene	24.058	278	12876	0.69	ppm	54
37) Benzo[g,h,i]perylene	24.397	276	14274	0.60	ppm	88

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55412.D
Acq On : 2 Aug 2016 5:23 pm
Operator : ashleyd
Sample : op95821a-ms
Misc : op95821a,e3p2534,500,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 03 09:35:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55413.D
Acq On : 2 Aug 2016 5:56 pm
Operator : ashleyd
Sample : op95821a-msd
Misc : op95821a,e3p2534,500,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 09:36:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Aug 03 09:36:14 2016
Response via : Initial Calibration

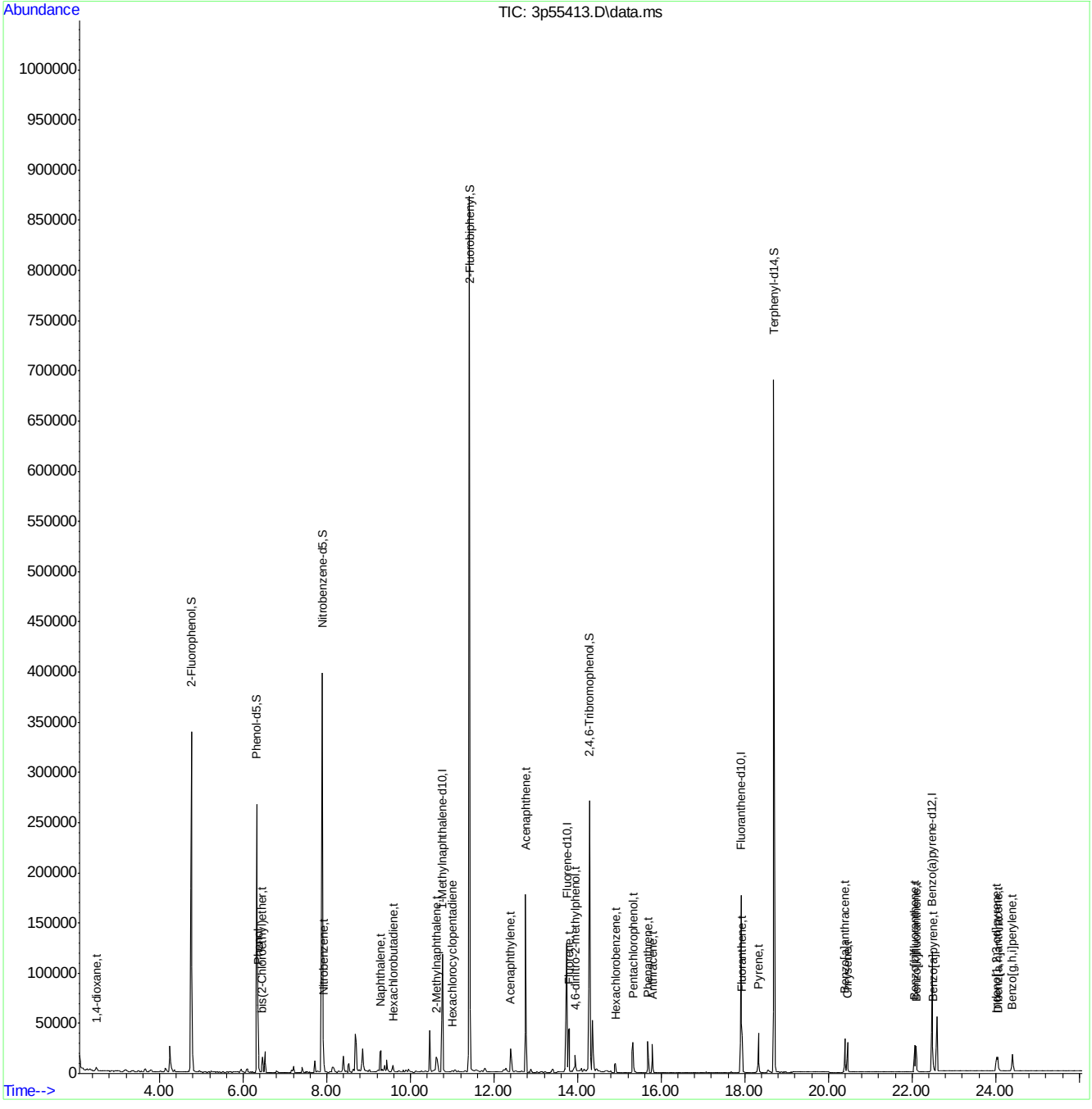
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.768	150	74835	4.00	ppm	0.00
14) Fluorene-d10	13.740	176	114730	4.00	ppm	0.00
21) Fluoranthene-d10	17.905	212	179725	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	133570	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.760	112	281155	23.26	ppm	-0.13
Spiked Amount 50.000			Recovery = 46.52%			
4) Phenol-d5	6.328	99	346917	21.45	ppm	-0.08
Spiked Amount 50.000			Recovery = 42.90%			
7) Nitrobenzene-d5	7.895	82	397709	32.69	ppm	-0.06
Spiked Amount 50.000			Recovery = 65.38%			
15) 2-Fluorobiphenyl	11.412	172	833989	29.54	ppm	-0.05
Spiked Amount 50.000			Recovery = 59.08%			
20) 2,4,6-Tribromophenol	14.286	330	158631	44.17	ppm	0.01
Spiked Amount 50.000			Recovery = 88.34%			
28) Terphenyl-d14	18.694	244	643613	27.20	ppm	0.03
Spiked Amount 50.000			Recovery = 54.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.489	88	4392	0.58	ppm #	53
5) Phenol	6.353	94	38357	2.93	ppm #	52
6) bis(2-Chloroethyl)ether	6.461	93	8594	0.64	ppm	90
8) Nitrobenzene	7.914	77	8620	0.64	ppm	95
9) Naphthalene	9.288	128	33387	0.68	ppm	86
10) Hexachlorobutadiene	9.590	225	4333	0.52	ppm	98
11) 2-Methylnaphthalene	10.625	141	15599	0.59	ppm	72
13) Hexachlorocyclopentadiene	11.006	237	1389	0.41	ppm	90
16) Acenaphthylene	12.391	152	30494	0.75	ppm	97
17) Acenaphthene	12.756	153	98813	3.86	ppm	95
18) 4,6-dinitro-2-methylph...	13.947	198	15314	6.90	ppm	68
19) Fluorene	13.796	166	47534	1.97	ppm	86
22) Hexachlorobenzene	14.906	284	6922	0.70	ppm	97
23) Pentachlorophenol	15.324	266	25915	5.72	ppm	88
24) Phenanthrene	15.679	178	34618	0.83	ppm	99
25) Anthracene	15.788	178	31581	0.88	ppm	98
26) Fluoranthene	17.936	202	34325	0.95	ppm	99
27) Pyrene	18.323	202	38581	0.96	ppm	97
29) Benzo[a]anthracene	20.393	228	30845	0.92	ppm	99
30) Chrysene	20.455	228	27769	0.72	ppm	100
32) Benzo[b]fluoranthene	22.062	252	28131	0.64	ppm	96
33) Benzo[k]fluoranthene	22.093	252	23950	0.64	ppm	98
34) Benzo[a]pyrene	22.497	252	18995	0.54	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.021	276	23276	0.60	ppm	93
36) Dibenz[a,h]anthracene	24.058	278	17752	0.60	ppm	52
37) Benzo[g,h,i]perylene	24.397	276	19955	0.53	ppm	88

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55413.D
Acq On : 2 Aug 2016 5:56 pm
Operator : ashleyd
Sample : op95821a-msd
Misc : op95821a,e3p2534,500,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 09:36:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Aug 03 09:36:14 2016
Response via : Initial Calibration

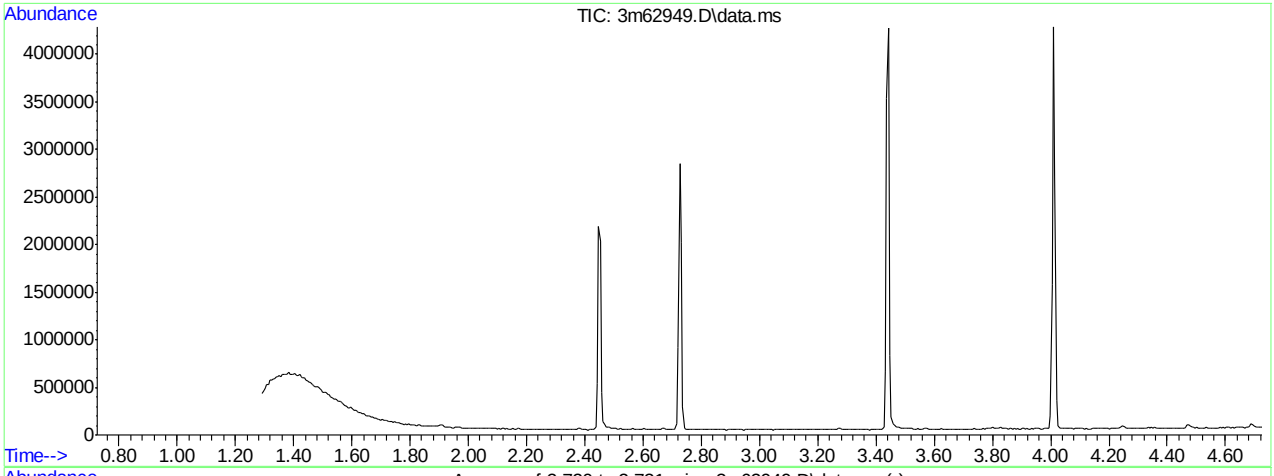


SGS ACCUTEST JC24622

DFTPP

Data File : C:\msdchem\1\DATA\E3M2975\3m62949.D Vial: 1
Acq On : 14 Jul 2016 9:30 am Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2975 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 268, 269, 270; Background Corrected with Scan 264

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.9	93493	PASS
68	69	0.00	2	1.0	952	PASS
69	198	0.00	100	48.6	99021	PASS
70	69	0.00	2	0.3	292	PASS
127	198	40	60	51.0	104053	PASS
197	198	0.00	1	0.3	639	PASS
198	198	100	100	100.0	203896	PASS
199	198	5	9	7.0	14288	PASS
275	198	10	30	22.9	46742	PASS
365	198	1	100	3.6	7258	PASS
441	443	0.10	100	77.8	26169	PASS
442	198	40	100	85.8	174995	PASS
443	442	17	23	19.2	33633	PASS

3m62949.D DFTPP3M.M Fri Jul 15 17:10:05 2016 RPT1

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	780	50.00	23989	60.85	867	70.10	292
36.85	282	51.00	93493	61.20	841	73.00	1571
37.10	251	52.00	4391	61.95	1401	74.00	8270
37.95	1347	53.20	195	63.10	3792	75.00	14425
39.05	7079	54.00	80	63.90	121	76.15	5735
40.00	153	54.90	522	64.10	391	77.10	97888
43.05	643	56.00	2572	65.00	1887	78.00	6998
43.95	95	57.00	6041	65.85	232	79.00	5682
45.20	181	57.90	301	68.00	952	80.00	4121
48.05	1098	58.80	90	69.00	99021	81.05	6340
49.00	2458	59.85	223	69.80	198	81.95	2010

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	1730	93.95	925	102.95	1237	112.20	443
84.00	1130	94.80	131	104.00	2295	113.00	324
84.95	932	95.10	98	104.90	275	113.80	100
86.00	1924	95.80	260	105.10	2132	114.50	139
86.80	176	96.05	281	105.90	477	115.10	517
87.05	922	97.95	6986	107.00	29784	115.90	371
87.95	259	99.00	6718	107.95	4955	116.95	20106
90.95	1792	99.80	150	108.90	470	118.00	1660
91.90	413	99.95	528	109.95	56525	118.95	281
92.05	1709	101.00	4893	110.95	7971	119.20	210
92.95	9486	102.00	215	111.90	550	119.90	514

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
120.95	335	130.00	3555	137.85	442	144.95	441
121.90	1518	130.85	331	138.70	141	145.60	304
122.90	696	131.10	282	138.90	104	146.00	423
123.10	2538	132.05	544	139.90	127	147.05	2269
123.80	392	132.80	190	140.90	2952	148.00	4977
124.05	1204	133.40	116	141.05	2336	148.95	1547
124.40	172	134.05	1095	141.90	908	150.00	494
125.05	1600	134.95	3478	142.15	757	151.15	987
127.00	104053	135.80	494	142.70	651	152.00	331
128.05	8192	136.00	611	143.05	547	152.80	313
129.00	41717	137.00	1821	144.00	338	153.00	1377

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.90	1491	162.95	302	170.70	389	177.05	1410
155.00	3313	163.60	80	171.15	369	177.90	274
156.00	4526	163.80	214	171.75	581	178.10	290
157.10	1201	164.20	178	172.10	337	179.00	7154
157.85	398	165.00	1370	172.70	129	180.00	4620
158.10	694	166.05	1449	172.95	920	180.95	2398
159.05	878	166.95	10807	173.70	283	181.70	169
159.95	1482	167.95	5557	174.05	1826	182.20	100
161.00	2558	168.95	1254	175.05	3871	182.80	126
161.85	718	169.65	270	176.00	1063	183.00	146
162.10	240	170.00	129	176.80	161	183.40	111

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
184.00	588	193.00	2487	202.90	701	212.20	108
185.15	4273	193.95	536	203.10	549	213.00	125
186.00	30404	194.80	315	204.05	8251	213.90	89
187.00	8487	195.00	253	205.05	11894	214.65	518

187.90	432	196.00	6915	206.00	52107	215.05	395
188.10	448	197.00	639	206.95	6824	215.90	242
188.95	1910	197.90	203896	207.95	1376	217.00	13616
189.95	375	198.90	14288	209.05	789	217.80	808
190.70	105	199.95	1342	210.10	1323	218.05	1006
190.90	582	201.10	387	210.50	614	219.10	117
192.00	2244	201.50	1424	211.05	2473	219.70	77

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
220.00	152	229.00	2554	237.05	1156	247.05	818
221.05	11183	229.80	94	238.05	290	248.15	200
221.70	1528	230.90	683	238.85	317	249.05	712
222.00	983	231.10	591	239.65	338	250.00	86
223.00	3570	231.85	265	241.00	705	251.10	314
224.00	30289	232.75	285	241.70	136	252.10	537
224.95	7608	233.70	355	242.10	1431	252.90	454
226.05	613	234.05	604	243.00	1372	253.10	522
227.00	12039	235.00	863	244.05	22305	253.70	79
227.80	884	235.95	700	245.00	3084	255.00	118573
228.00	1084	236.70	280	246.00	4456	256.00	17297

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.95	1127	266.00	241	276.05	5603	288.70	81
258.00	6788	267.60	75	276.95	4368	290.70	120
259.00	790	267.90	168	277.90	483	292.90	189
259.95	219	268.10	86	278.10	245	293.05	960
260.80	143	269.95	176	280.80	75	294.10	203
261.10	152	271.50	188	281.05	179	296.00	12489
262.90	80	272.15	601	283.00	209	296.90	1981
263.85	185	272.90	352	283.20	193	298.10	130
264.80	264	273.05	2929	283.80	158	301.80	402
265.00	2166	274.05	8593	284.05	389	303.00	1665
265.70	223	275.00	46742	284.95	865	304.10	399

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
307.80	192	323.05	5445	335.10	593	353.90	153
309.10	94	323.90	440	336.05	229	354.10	1218
309.75	276	324.10	279	338.55	153	354.70	98
313.10	114	325.30	110	340.80	287	355.05	203
314.00	789	325.90	92	341.00	391	365.00	7258
314.60	74	326.95	1136	343.90	82	366.00	1197
315.05	1316	328.00	379	345.85	1198	370.00	84
315.85	1099	331.85	336	347.00	328	370.90	433
317.00	236	333.05	651	351.95	1819	371.80	86
321.00	483	334.05	2460	353.00	546	372.00	2842
321.85	286	334.80	281	353.20	584	372.85	631

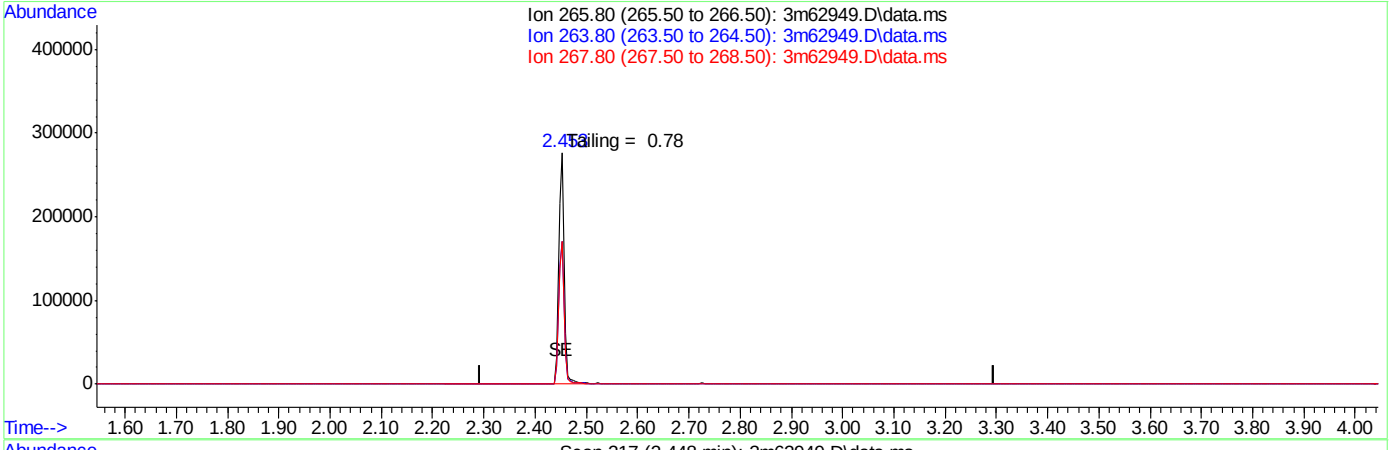
Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

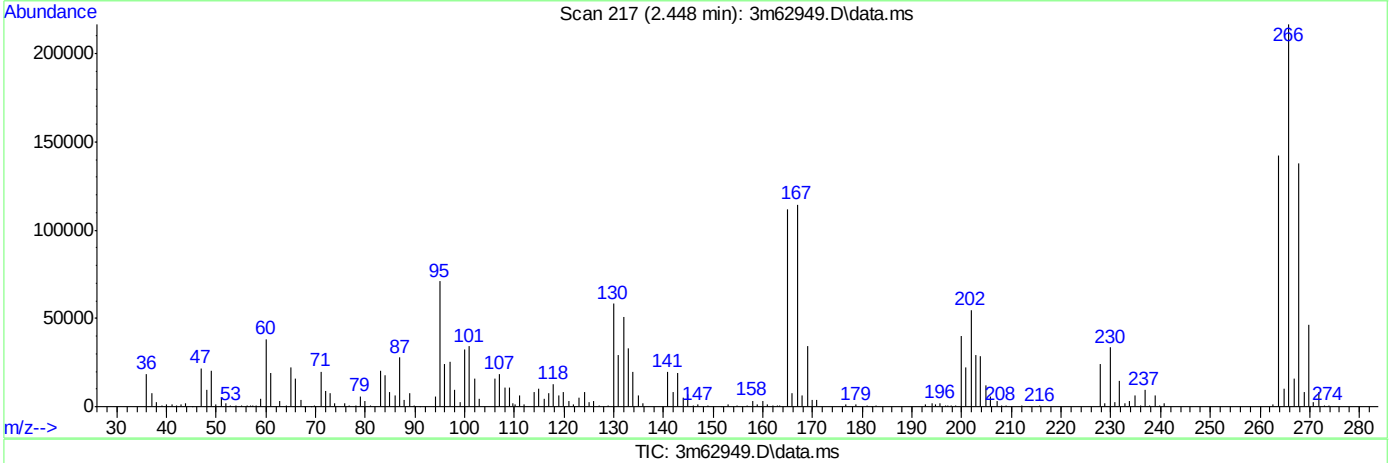
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.20	205	422.10	457	444.90	96		
382.80	520	422.90	546				
390.05	439	423.05	9075				
390.90	98	424.00	2332				
391.30	83	424.70	90				
400.70	124	425.50	77				
402.00	1136	439.80	286				
403.00	1853	441.00	26169				
404.05	626	442.00	174995				
405.00	113	443.00	33633				
420.95	1401	443.95	3002				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62949.D
Acq On : 14 Jul 2016 9:30 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2975
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 17:09:34 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: 3m62949.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

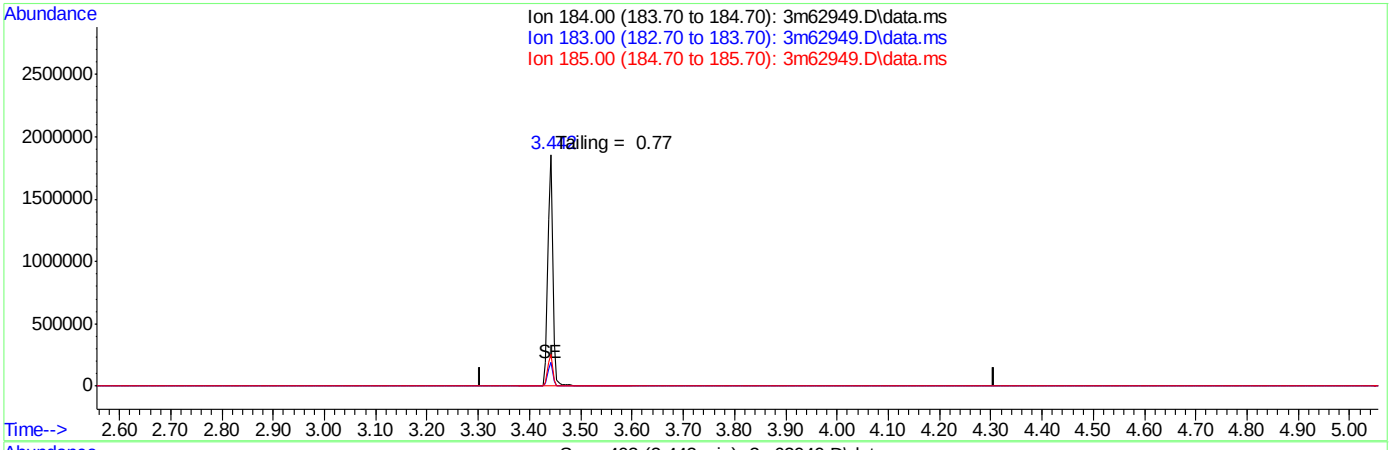
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

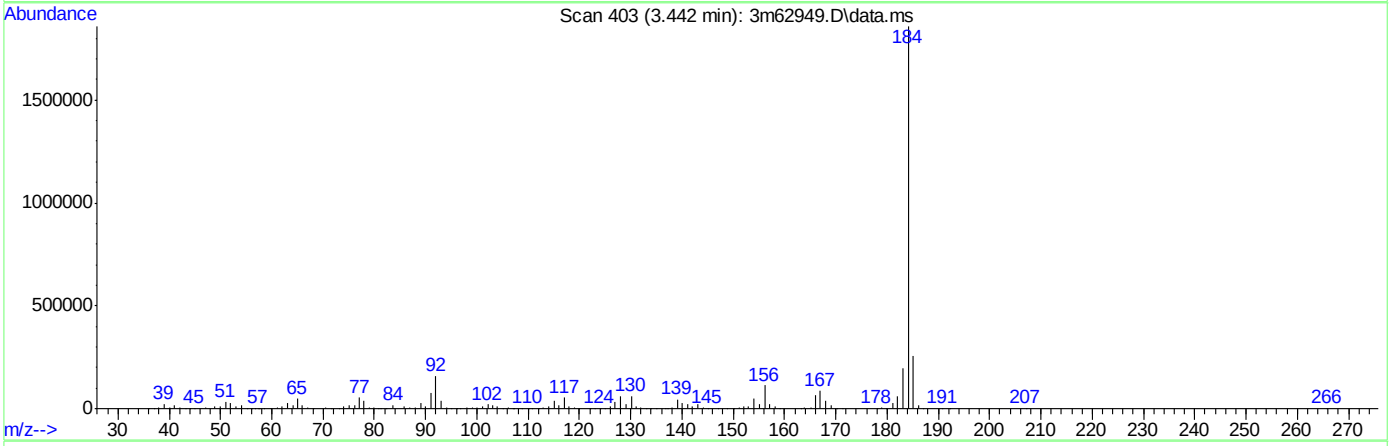
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62949.D
Acq On : 14 Jul 2016 9:30 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2975
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 17:09:34 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: 3m62949.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

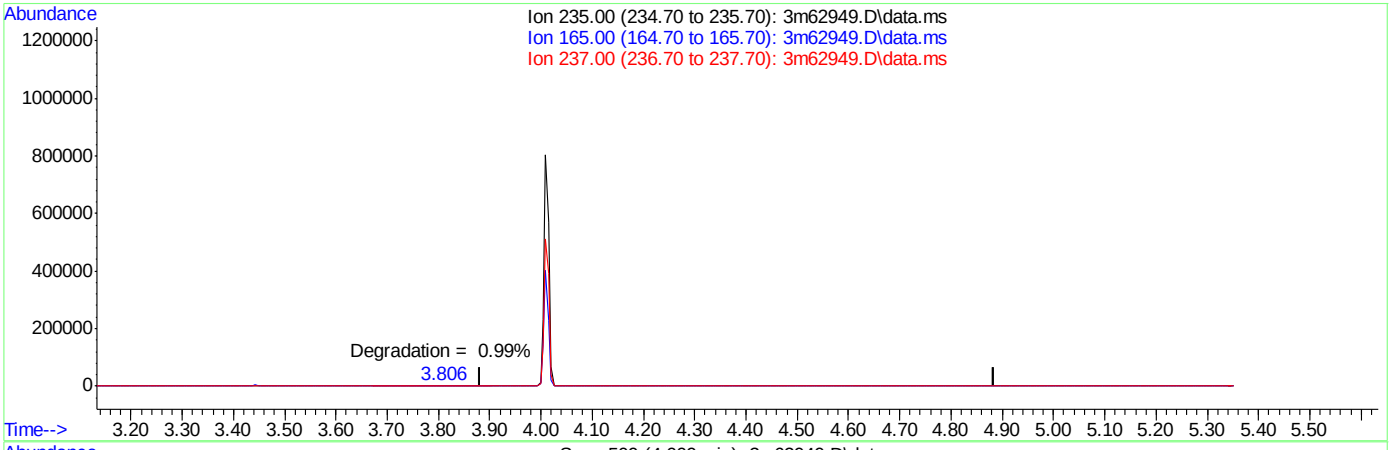
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

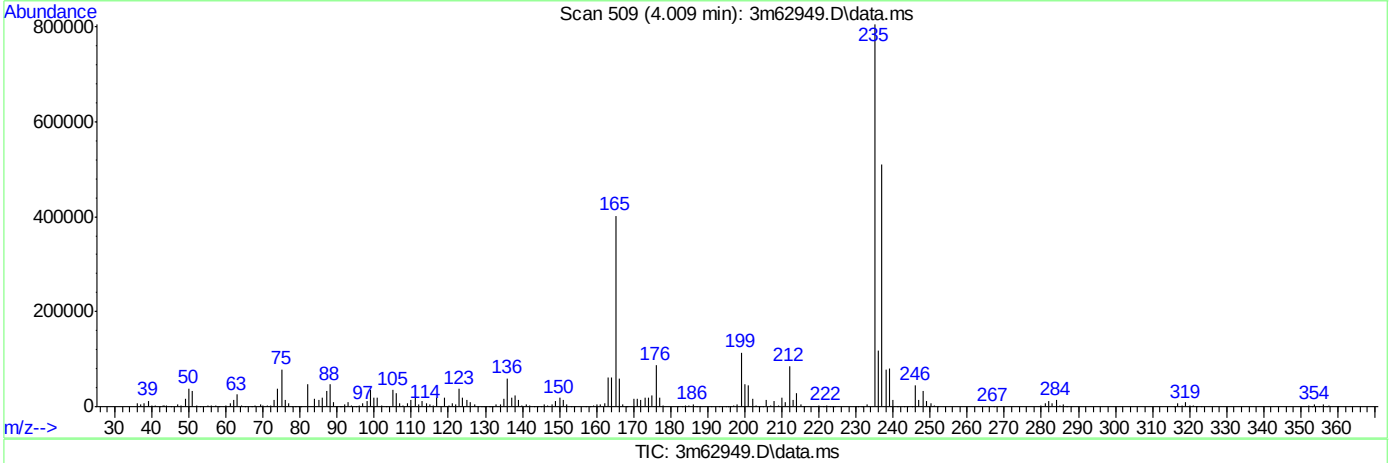
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62949.D
Acq On : 14 Jul 2016 9:30 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2975
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 17:09:34 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: 3m62949.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

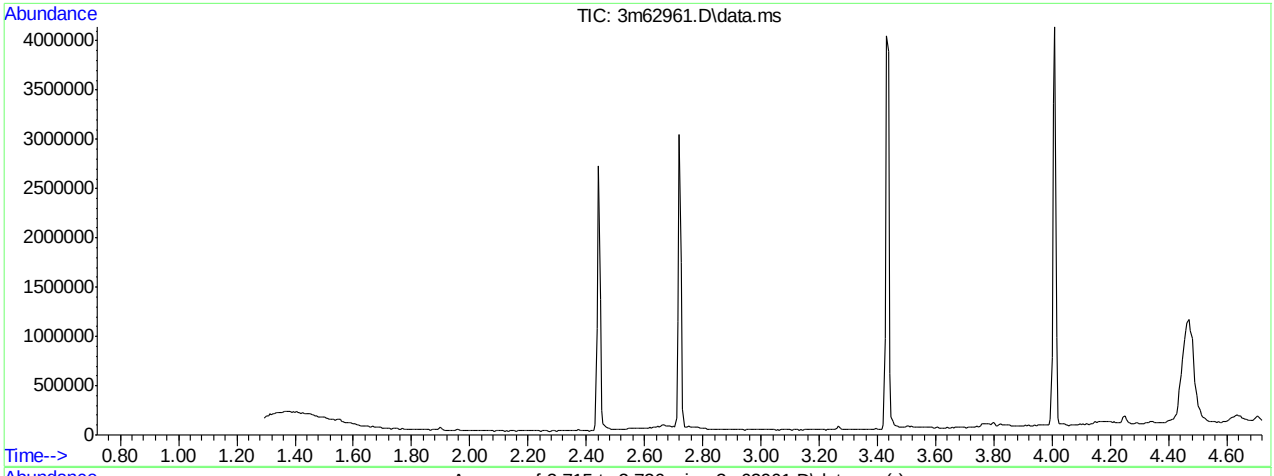
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC24622

DFTPP

Data File : C:\msdchem\1\DATA\E3M2976\3m62961.D Vial: 1
Acq On : 14 Jul 2016 5:04 pm Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2976 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 267, 268, 269; Background Corrected with Scan 260

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.3	95013	PASS
68	69	0.00	2	0.0	3	PASS
69	198	0.00	100	47.2	96831	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.6	109997	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	205083	PASS
199	198	5	9	6.7	13647	PASS
275	198	10	30	23.0	47211	PASS
365	198	1	100	4.0	8163	PASS
441	443	0.10	100	76.4	27820	PASS
442	198	40	100	90.2	184928	PASS
443	442	17	23	19.7	36390	PASS

3m62961.D DFTPP3M.M Fri Jul 15 17:11:59 2016 RPT1

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	206	49.95	22678	64.05	453	78.95	5589
36.10	298	50.95	95013	65.00	1993	79.95	4550
37.00	428	52.10	4813	67.10	327	80.95	6353
37.20	148	53.00	507	67.95	3	82.00	1380
38.10	1685	55.95	1815	69.00	96831	83.00	1613
39.00	7669	57.00	6400	73.10	1282	83.90	463
39.95	717	58.10	273	74.00	9040	84.95	740
41.05	74	59.95	617	75.00	13380	85.95	2197
42.05	205	60.95	826	76.05	4738	86.70	232
45.90	180	61.95	856	77.05	100557	87.70	224
48.20	193	63.00	4206	78.10	6042	88.20	124

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.05	191	101.00	4158	110.00	57869	119.80	236
90.95	1632	101.90	194	111.00	8844	120.60	102
92.05	2127	102.75	878	112.00	1180	121.10	313
93.00	9779	103.10	619	113.00	726	121.80	396
94.05	921	103.90	2465	115.10	560	122.00	1264
95.70	387	105.00	2436	115.95	1365	122.95	2870
96.00	407	105.70	217	116.95	21115	123.80	668
96.95	293	106.00	500	117.80	304	124.05	905
97.95	7299	106.95	30629	118.05	1680	125.05	1848
99.00	5764	108.00	4565	118.85	135	127.00	109997
100.05	456	108.80	341	119.30	333	128.00	8341

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	42463	139.20	145	146.25	627	152.10	157
130.00	3978	139.75	291	147.00	2460	152.30	153
130.80	38	140.00	361	147.95	4941	153.00	1837
131.00	591	141.00	4866	148.80	249	154.00	1369
134.05	972	142.05	1828	148.90	327	154.85	1305
134.95	3433	142.80	562	149.05	1039	155.10	1952
136.00	1483	143.00	675	149.90	207	156.00	4923
136.80	993	144.05	541	150.10	139	157.00	1057
137.05	949	144.60	94	150.80	221	157.60	696
138.10	244	145.10	681	151.05	172	158.05	471
139.00	117	146.00	499	151.55	492	158.85	668

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.10	275	167.95	4931	176.40	455	183.50	87
159.60	298	168.95	768	176.80	1256	184.00	796
159.90	1090	170.00	238	177.20	224	184.95	3523
161.00	2186	170.80	450	178.00	417	186.00	28453
161.95	973	171.00	163	179.00	7430	187.05	8201
163.10	113	171.80	1055	179.95	4715	188.05	932
163.85	621	172.10	258	181.00	2312	188.95	2233
164.80	940	173.00	1191	182.00	469	190.05	284
165.00	483	174.00	1859	182.60	207	190.60	87
166.05	711	175.00	4346	182.90	124	190.90	146
166.95	10404	175.95	901	183.30	89	191.10	731

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.70	588	200.10	590	207.10	5129	219.20	89
192.05	2179	200.40	205	207.95	1530	220.95	12345
193.00	2749	201.50	1376	208.90	214	221.90	636
193.75	348	202.10	351	210.10	293	222.80	689

194.10	437	202.50	325	210.90	2410	222.95	2670
195.10	210	202.90	615	212.10	401	224.05	29870
196.05	6405	203.10	451	213.05	220	225.05	7434
196.60	488	204.05	7361	215.00	536	225.90	361
198.00	205083	205.05	14281	216.00	287	226.95	11462
198.90	13647	206.00	52144	217.00	12568	227.85	1339
199.85	581	206.90	1287	218.00	1972	228.95	2771

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
229.95	319	241.90	656	253.10	501	263.20	129
230.85	1074	242.15	1214	253.85	558	263.85	281
232.95	272	243.05	1374	255.00	122883	264.95	2632
234.00	901	244.00	22042	256.00	17689	265.90	527
234.95	690	244.95	3293	256.80	334	267.90	134
236.00	456	245.95	3661	257.00	1048	268.20	91
236.95	957	246.95	991	257.80	880	270.10	184
239.05	323	248.00	136	258.00	6575	270.80	146
239.95	493	248.90	1009	259.15	936	271.00	176
240.70	221	252.00	302	260.50	86	271.80	87
241.05	986	252.20	198	261.10	212	272.10	469

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
272.90	3650	283.70	82	296.00	15586	314.30	331
274.00	8716	284.10	136	296.95	1961	314.95	1425
275.00	47211	285.00	1188	300.90	154	315.90	628
276.00	6810	286.10	85	302.20	261	316.10	415
276.95	3529	286.70	98	302.95	1733	321.05	701
277.90	197	289.05	219	304.10	403	321.80	217
278.20	330	289.85	198	307.90	179	322.30	81
279.10	85	292.00	220	308.10	115	323.00	4319
281.30	90	292.95	1290	309.05	391	323.95	1226
281.85	185	294.00	222	310.00	152	326.75	765
282.95	765	294.70	174	313.95	676	328.00	547

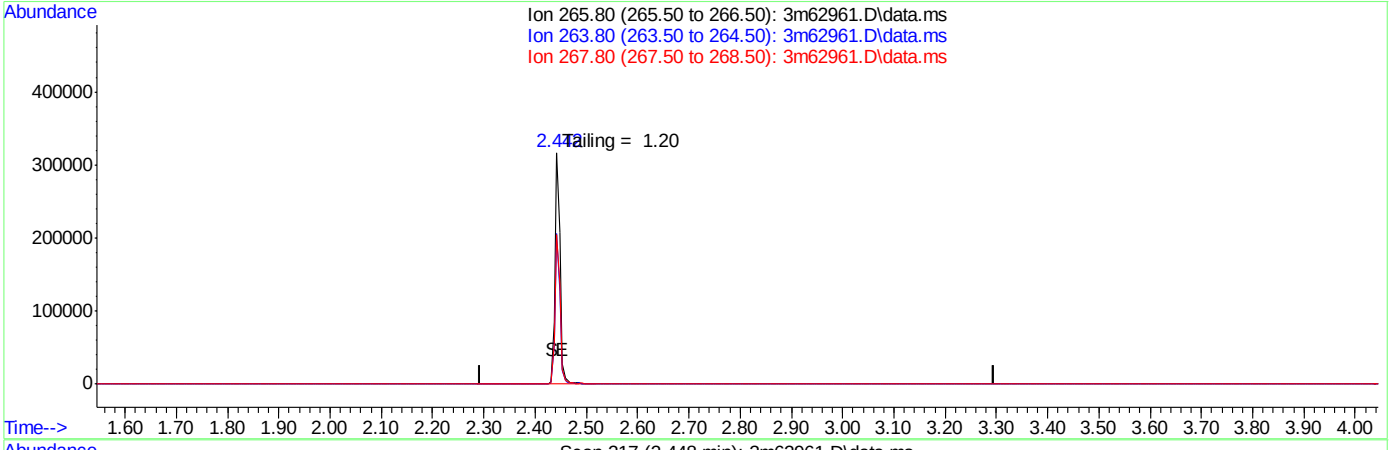
Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

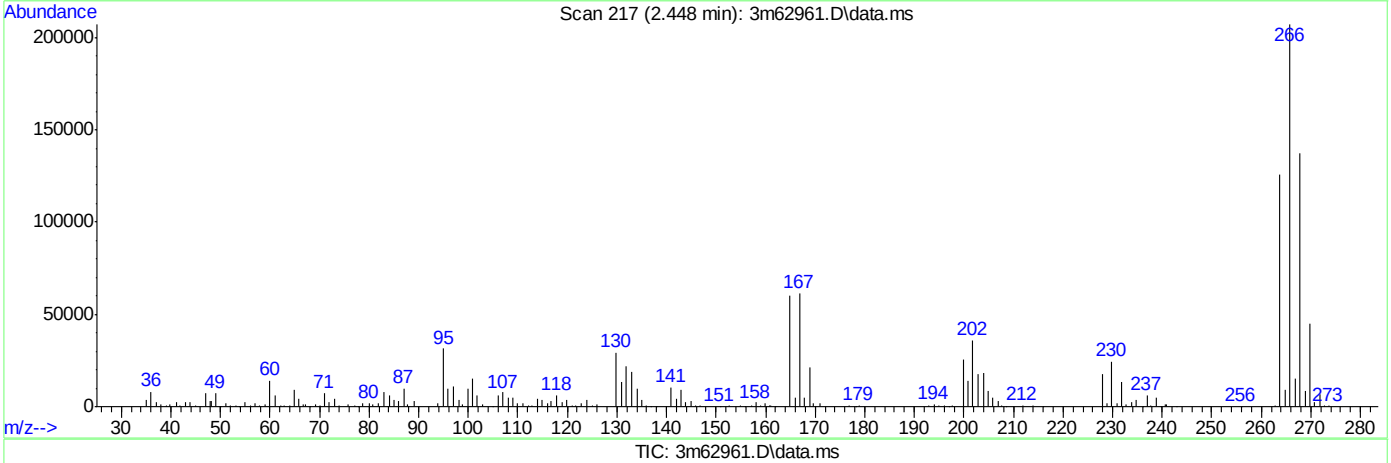
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
329.15	298	353.05	1455	384.00	285	422.00	1282
332.10	581	353.95	1766	390.10	380	423.05	10484
332.95	687	355.15	334	390.95	306	423.80	242
334.05	3119	365.00	8163	401.10	123	424.00	2139
335.05	1076	365.85	960	401.80	712	424.90	290
338.80	110	371.05	411	402.00	686	441.00	27820
340.95	763	371.90	1451	402.90	1115	442.00	184928
341.80	101	372.10	1194	403.10	900	443.00	36390
345.95	1427	372.70	275	403.95	776	444.05	3829
347.00	260	373.05	716	420.90	1344	445.10	83
351.95	1812	382.95	1299	421.30	417		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62961.D
Acq On : 14 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2976
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 17:08:27 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: 3m62961.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

7.5.2.1

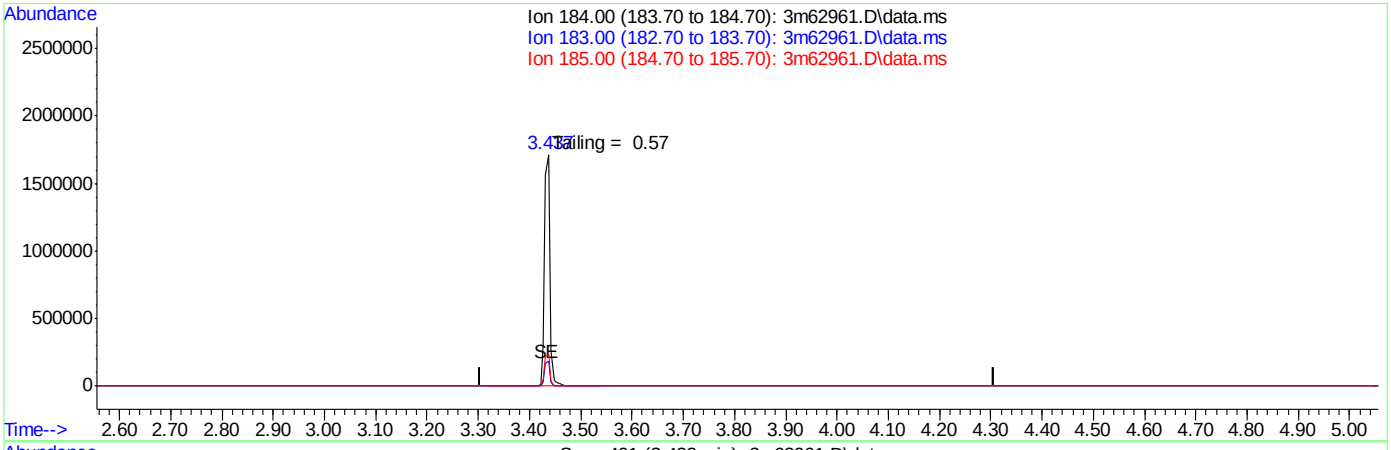
7

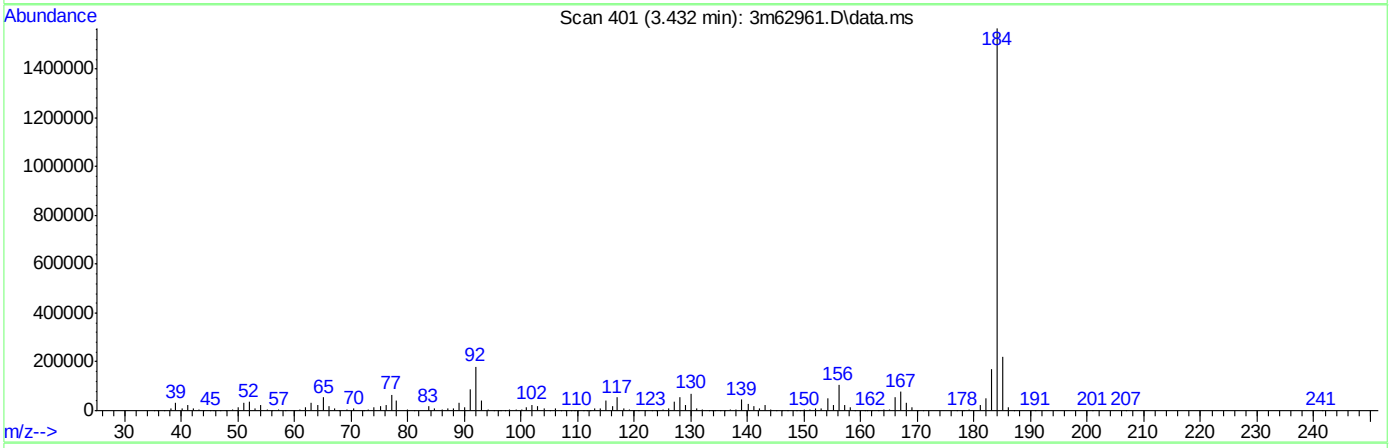
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62961.D
Acq On : 14 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2976
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 17:08:27 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: 3m62961.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

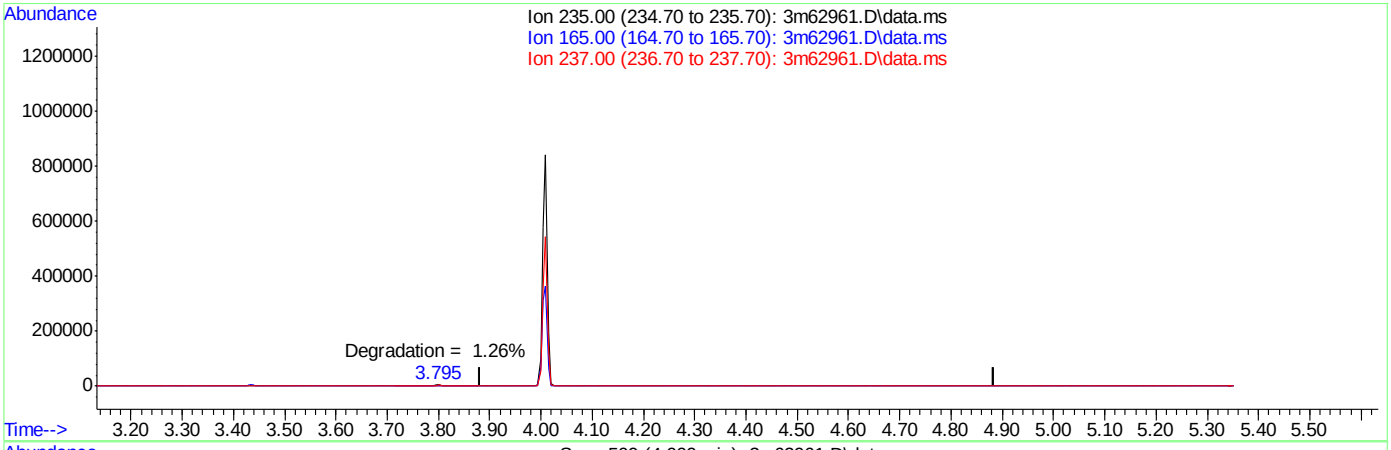
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

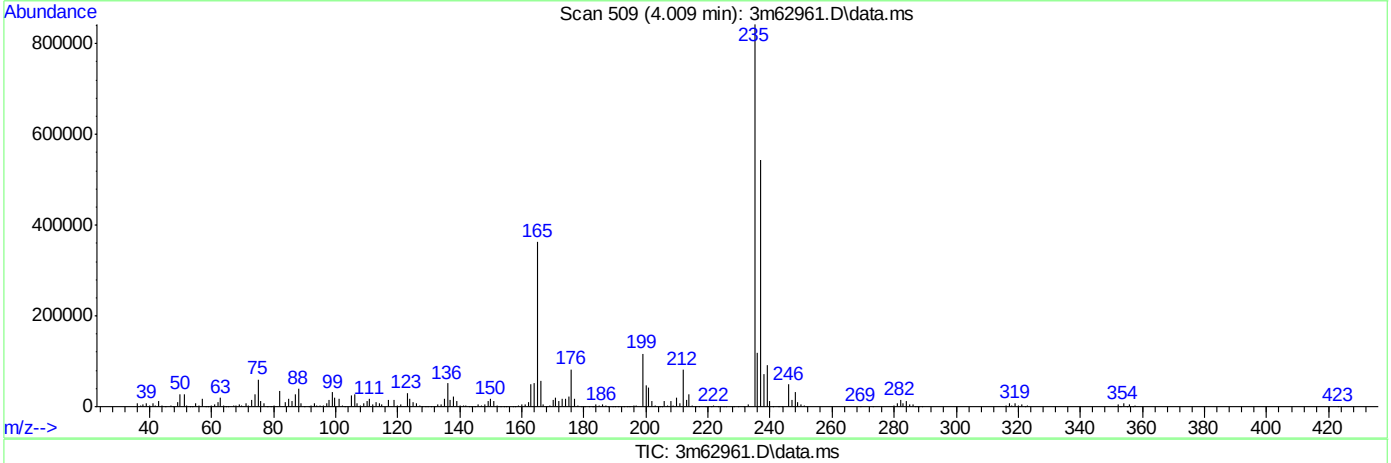
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62961.D
Acq On : 14 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2976
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 17:08:27 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: 3m62961.D\data.ms

(3) PP-DDT (t)

4.384min 0.00ppb d

response 0

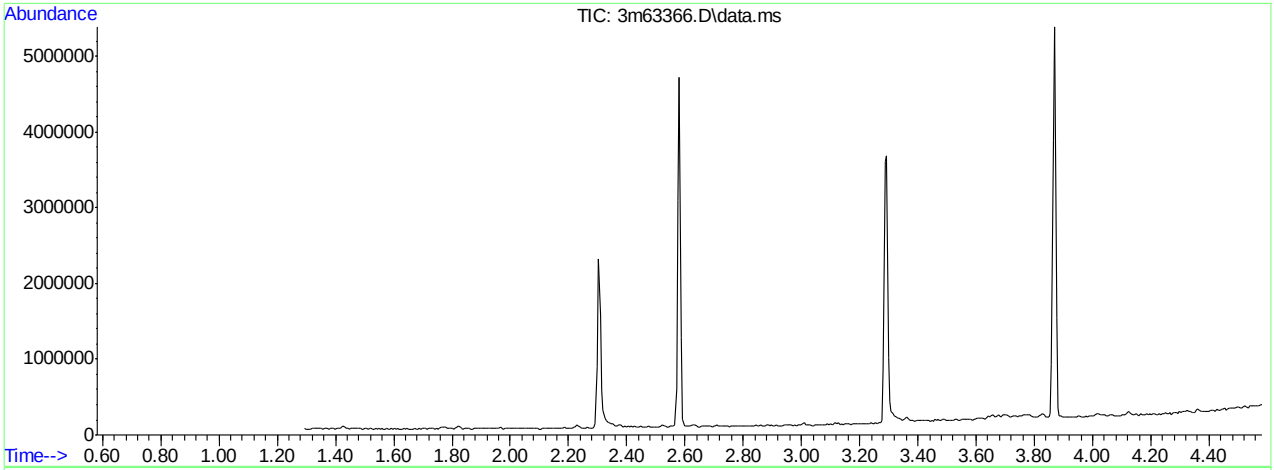
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

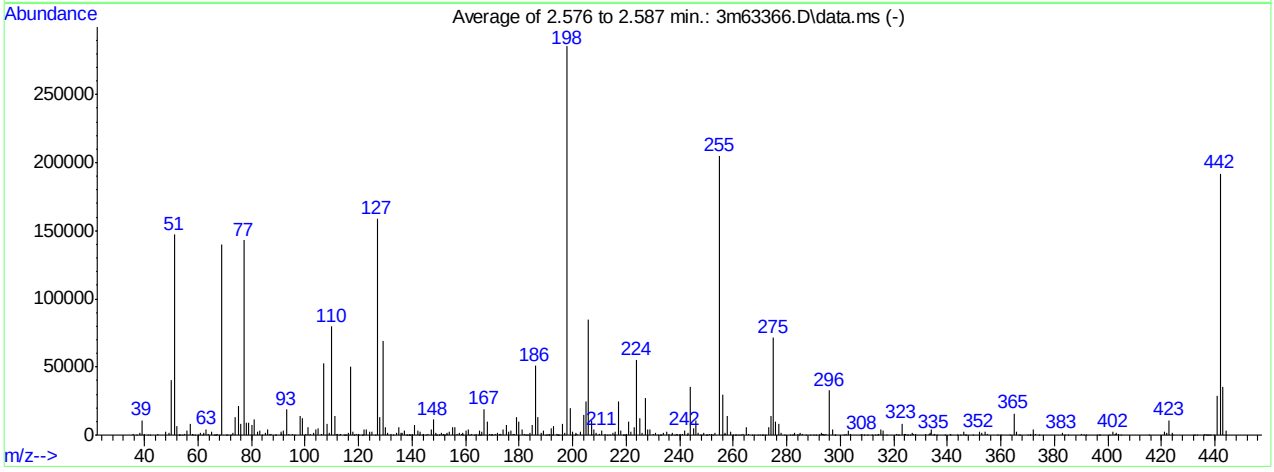
SGS ACCUTEST JC24622

DFTPP

Data File : C:\msdchem\1\DATA\E3M3002\3m63366.D Vial: 1
Acq On : 1 Aug 2016 10:32 am Operator: shaniceg
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m3002 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 241, 242, 243; Background Corrected with Scan 236

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.6	147117	PASS
68	69	0.00	2	0.2	343	PASS
69	198	0.00	100	49.2	140231	PASS
70	69	0.00	2	0.1	138	PASS
127	198	40	60	55.6	158611	PASS
197	198	0.00	1	0.6	1661	PASS
198	198	100	100	100.0	285296	PASS
199	198	5	9	6.9	19567	PASS
275	198	10	30	25.0	71288	PASS
365	198	1	100	5.5	15798	PASS
441	443	0.10	100	83.1	29111	PASS
442	198	40	100	67.2	191765	PASS
443	442	17	23	18.3	35020	PASS

3m63366.D DFTPP3M.M Mon Aug 01 16:09:55 2016 RPT1

Average of 2.576 to 2.587 min.: 3m63366.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	507	51.00	147117	58.70	111	67.25	804
36.90	410	52.00	6308	60.00	220	67.90	343
38.00	1906	52.70	214	60.85	2036	69.00	140231
39.05	10809	53.00	17	61.70	129	70.30	138
40.05	717	53.20	162	62.00	1666	71.05	359
41.05	419	54.10	121	63.00	4305	72.05	132
41.90	387	55.05	1130	63.95	909	72.90	1587
44.95	613	55.90	3697	65.00	2287	73.90	13189
47.95	2525	57.00	8642	65.80	90	75.00	21324
49.00	1688	57.85	669	66.20	146	76.05	8107
50.00	40363	58.10	169	66.85	252	77.00	143039

Average of 2.576 to 2.587 min.: 3m63366.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.00	9021	88.80	170	100.10	759	111.00	13970
78.90	9473	89.10	165	100.95	5989	111.90	638
80.00	7609	90.90	1037	101.85	745	112.10	1216
81.00	11270	91.10	2127	103.00	1989	112.80	397
82.05	2304	92.00	3081	104.00	4374	113.10	536
83.00	3195	92.90	18916	105.00	4581	114.60	210
83.95	53	93.90	1135	106.00	879	115.00	95
84.95	1587	95.05	923	107.00	52725	115.40	315
85.90	4304	95.90	214	108.00	8631	115.95	1414
86.80	649	97.95	14191	109.00	1425	116.95	50559
87.10	940	99.00	12264	110.00	79760	118.00	2773

Average of 2.576 to 2.587 min.: 3m63366.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.20	173	127.00	158611	136.95	3296	143.70	189
118.95	812	128.05	12797	137.80	301	144.10	598
119.70	117	129.00	69228	138.10	428	145.10	103
120.10	1007	129.90	5717	138.60	199	145.95	1223
121.10	364	130.95	1844	138.80	343	147.00	4351
121.60	259	131.85	939	139.20	109	147.95	11367
122.10	4114	132.90	297	139.95	626	148.70	202
122.95	4461	134.00	1748	141.00	7532	148.95	1889
124.05	2515	134.95	5883	141.95	2966	149.20	72
125.05	2534	135.90	1317	142.70	347	149.90	336
126.10	303	136.15	1330	143.05	2425	150.20	198

Average of 2.576 to 2.587 min.: 3m63366.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.10	1624	157.80	1448	164.95	3326	171.90	1869
151.30	212	158.30	489	165.20	356	172.80	869
151.70	288	158.70	153	165.70	338	173.00	1104
151.90	818	158.95	1288	165.95	2874	174.05	4225
152.10	125	159.95	3327	167.00	19107	175.00	7704
152.90	859	161.00	4342	167.95	9565	175.95	2345
153.10	1800	161.20	385	168.95	1227	176.90	3491
154.00	2511	162.05	837	169.20	239	177.90	481
155.10	5514	163.05	433	169.70	300	178.10	1017
156.00	6055	163.85	541	169.95	1033	179.00	12785
156.95	1086	164.70	36	171.00	958	180.00	10085

Average of 2.576 to 2.587 min.: 3m63366.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.95	3835	189.80	430	195.95	7863	206.00	85144
182.00	786	190.20	200	197.00	1661	206.95	10917
182.50	93	191.00	1137	197.95	285296	207.20	863
182.80	360	191.30	308	198.95	19567	207.95	3869

183.00	224	191.95	5360	200.00	2426	208.90	1646
184.15	1523	192.20	362	200.70	116	209.90	1052
185.00	7130	192.95	6406	201.35	1281	210.10	463
186.00	50893	193.90	328	201.65	696	210.90	3725
186.95	13435	194.10	856	202.90	2655	212.05	676
188.05	1469	194.60	333	203.95	15204	213.00	398
189.00	3631	194.90	286	204.95	25045	213.80	78

Average of 2.576 to 2.587 min.: 3m63366.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
214.85	1515	222.95	5739	232.95	385	240.95	1245
215.60	195	224.00	54875	233.95	1380	241.95	3320
216.05	2290	224.95	12675	235.05	2383	242.60	183
216.95	25011	225.95	1333	235.90	1063	243.10	1442
218.05	3361	227.00	27226	236.70	348	244.00	35106
218.70	121	227.95	3849	237.05	1760	245.00	4787
219.30	159	229.00	4409	237.90	254	246.00	10415
219.70	152	230.00	841	238.80	105	247.05	2013
220.10	477	231.05	1628	239.05	669	247.70	143
221.00	10092	231.95	324	239.70	131	248.00	246
221.80	2447	232.60	113	239.95	731	248.95	1687

Average of 2.576 to 2.587 min.: 3m63366.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
249.80	94	259.00	2276	268.90	129	278.95	352
250.10	351	259.85	406	270.05	428	281.25	367
251.00	649	260.50	238	270.80	321	281.90	75
252.00	689	261.00	252	271.35	373	282.30	88
252.40	139	262.10	92	271.90	364	283.00	1355
253.00	1923	262.80	217	273.05	5558	283.95	658
255.00	204781	263.75	468	273.95	14406	284.70	356
256.00	29283	264.95	5432	275.00	71288	285.05	1465
256.85	821	265.80	736	275.95	10065	285.90	453
257.10	1323	267.05	302	277.00	8276	287.10	133
257.95	14026	267.60	146	277.90	1987	288.70	177

Average of 2.576 to 2.587 min.: 3m63366.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.10	253	297.80	352	312.85	336	324.30	452
290.90	197	298.10	77	313.90	330	324.70	132
291.90	175	301.20	366	314.20	961	325.10	99
292.10	313	302.05	630	315.05	4045	326.00	84
292.95	1550	303.00	3106	315.95	2981	326.80	1663
293.20	524	303.90	864	317.05	368	327.10	502
293.70	101	307.60	147	320.90	996	327.95	1129
293.95	504	308.10	472	321.30	109	332.05	822
294.70	900	308.90	119	321.90	291	333.00	773
296.00	32917	310.20	141	323.05	8485	333.70	1292
297.00	4094	311.90	246	324.00	873	334.00	3876

Average of 2.576 to 2.587 min.: 3m63366.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
334.80	250	349.70	110	367.00	279	391.05	315
335.10	1005	351.95	2465	369.95	244	391.85	229
336.20	87	352.85	1763	370.80	248	396.10	144
338.90	127	354.10	2529	371.00	302	396.70	141
340.95	856	354.95	517	372.05	4246	397.00	76
341.20	268	358.90	320	372.95	1011	400.75	200
343.80	144	360.00	92	374.20	88	402.00	2110
344.90	87	363.50	79	383.00	1371	402.80	590
346.00	2130	365.00	15798	384.00	377	403.10	1955
346.60	101	366.00	2407	384.90	181	404.15	1106
346.95	429	366.70	215	389.95	496	404.80	75

Average of 2.576 to 2.587 min.: 3m63366.D\data.ms

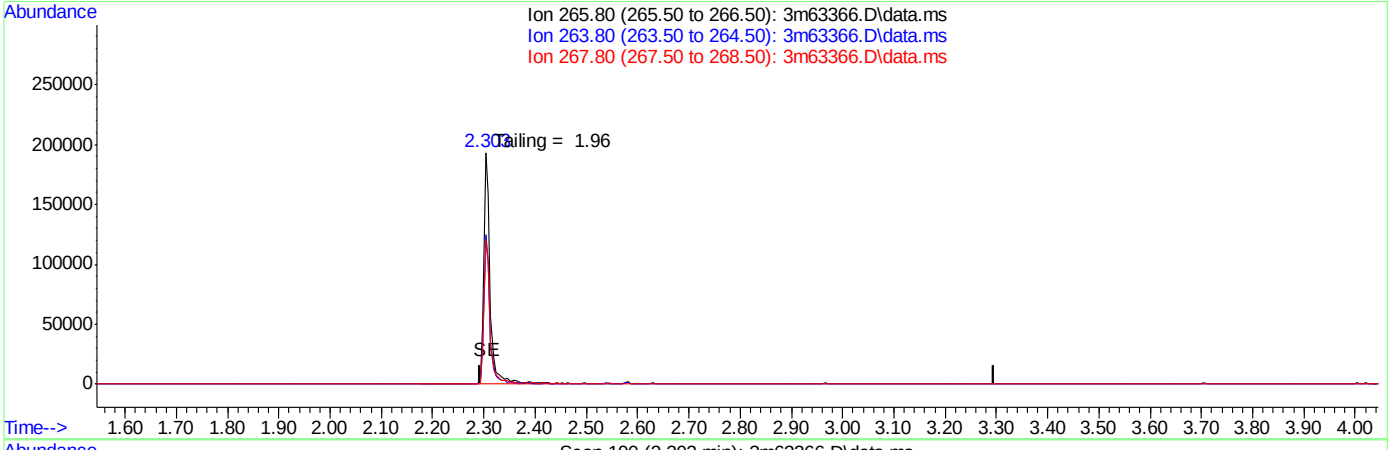
dftpp
Modified:subtracted

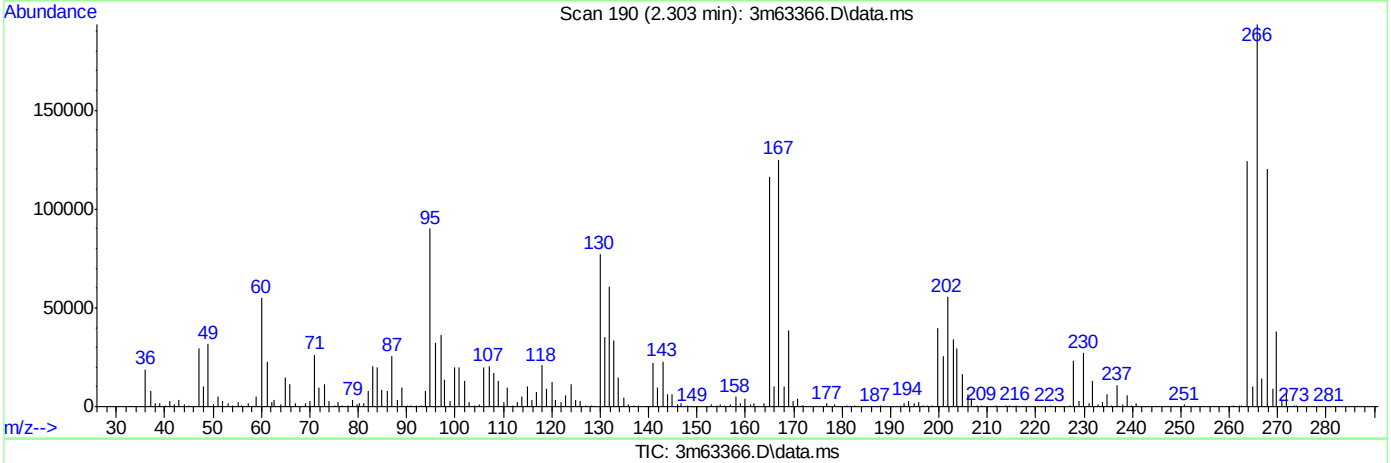
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
415.20	103	436.60	229				
420.95	2573	436.90	82				
421.95	1374	437.30	208				
423.00	10780	437.80	255				
423.90	233	438.35	222				
424.15	1495	439.50	74				
431.95	219	441.00	29111				
432.40	143	442.00	191765				
433.40	287	443.00	35020				
435.70	88	444.00	3484				
436.35	498						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3002\
Data File : 3m63366.D
Acq On : 1 Aug 2016 10:32 am
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3002
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 10:36:20 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: 3m63366.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

response 0

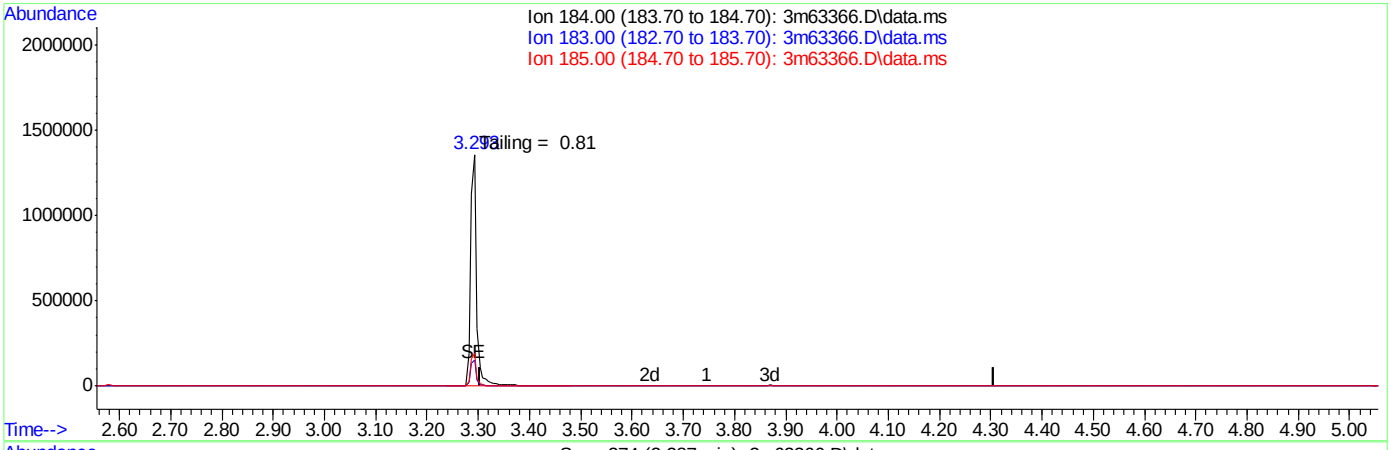
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

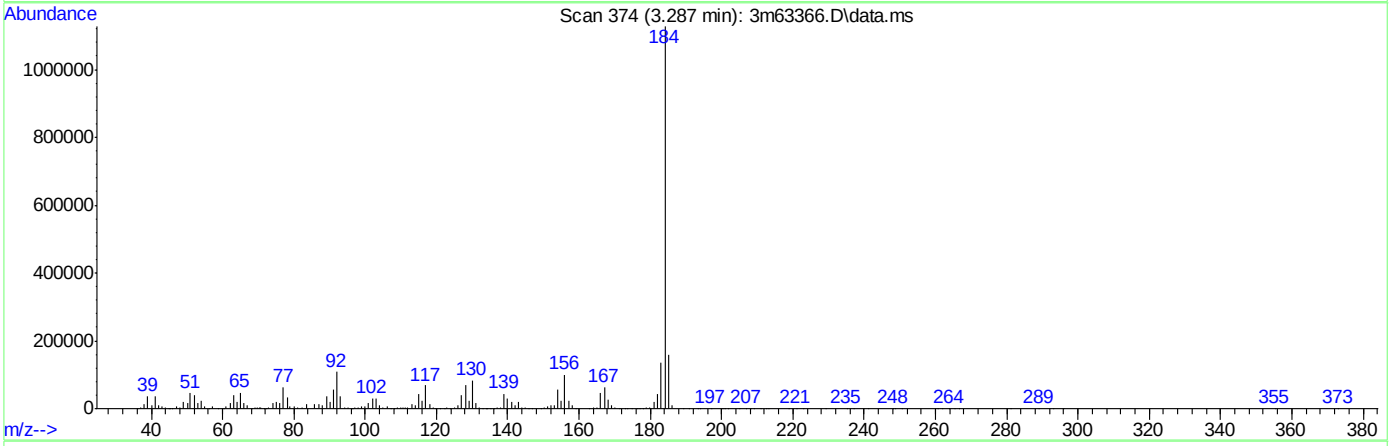
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3002\
Data File : 3m63366.D
Acq On : 1 Aug 2016 10:32 am
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3002
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 10:36:20 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: 3m63366.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

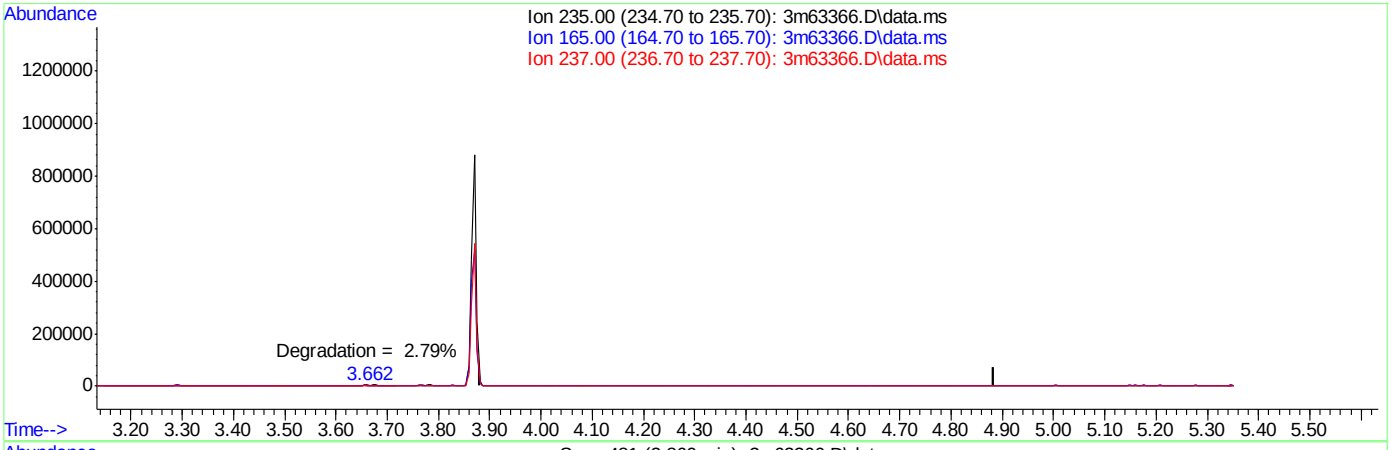
response 0

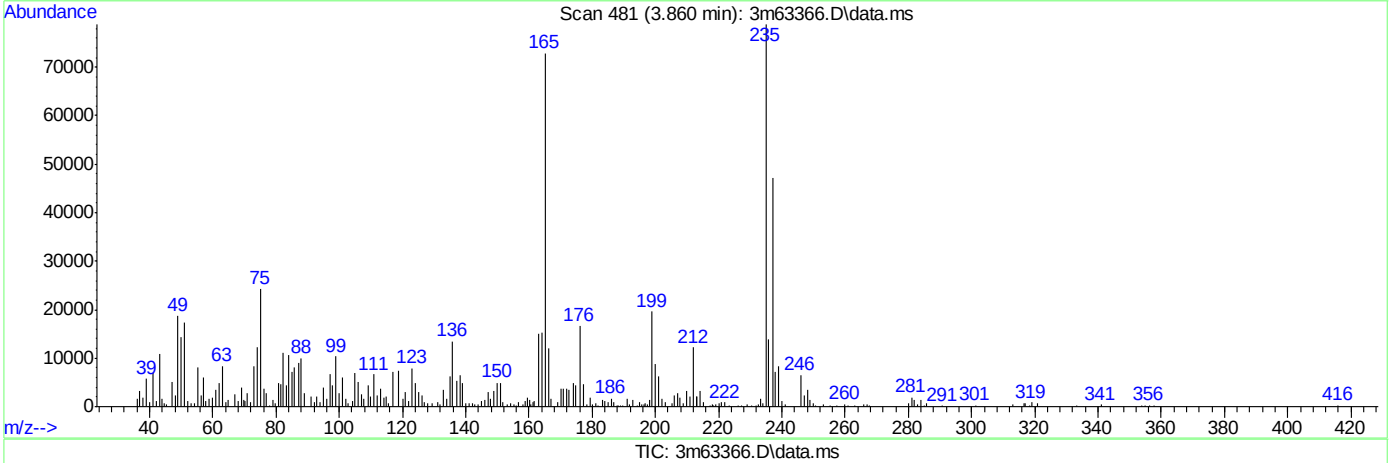
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3002\
Data File : 3m63366.D
Acq On : 1 Aug 2016 10:32 am
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3002
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 10:36:20 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: 3m63366.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

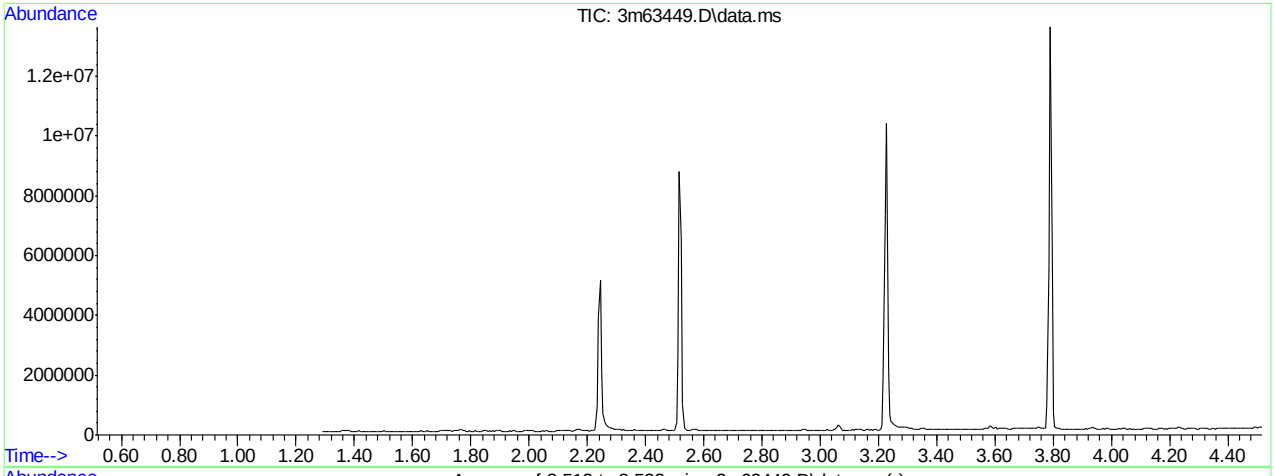
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

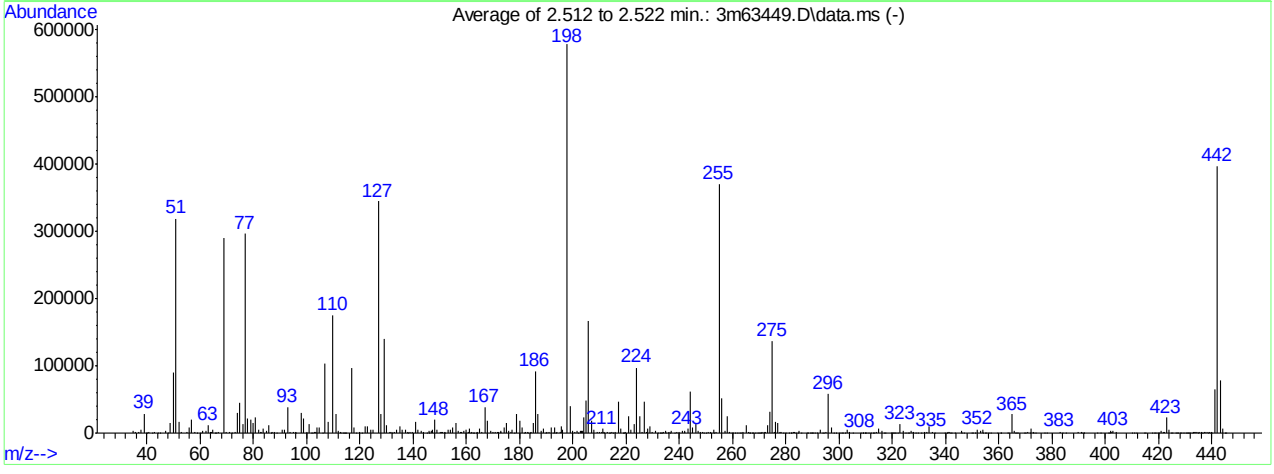
SGS ACCUTEST JC24622

DFTPP

Data File : C:\msdchem\1\DATA\E3M3007\3m63449.D Vial: 1
Acq On : 4 Aug 2016 12:05 pm Operator: shaniceg
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m3007 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 229, 230, 231; Background Corrected with Scan 223

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.2	318735	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	50.3	290249	PASS
70	69	0.00	2	0.5	1309	PASS
127	198	40	60	59.7	344619	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	577557	PASS
199	198	5	9	6.8	39366	PASS
275	198	10	30	23.7	136907	PASS
365	198	1	100	4.8	27716	PASS
441	443	0.10	100	82.9	64460	PASS
442	198	40	100	68.8	397205	PASS
443	442	17	23	19.6	77767	PASS

3m63449.D DFTPP3M.M Thu Aug 04 14:35:41 2016 RPT1

Average of 2.512 to 2.522 min.: 3m63449.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	3683	44.90	886	57.95	1542	66.90	1619
35.95	1092	47.00	3015	59.05	307	68.95	290249
36.95	2406	48.00	602	60.20	592	70.05	1309
38.00	4948	49.00	14485	61.10	3402	71.20	924
39.05	28372	49.95	89430	62.10	4178	72.05	638
39.90	662	51.00	318735	63.05	11887	73.10	2257
40.10	858	52.00	16369	63.90	1320	74.00	29294
41.00	1165	53.00	1243	64.25	1292	75.00	45448
42.20	252	55.00	2329	64.90	5069	76.05	13069
43.00	1591	55.90	8986	65.80	148	77.00	295945
44.00	380	57.00	19509	66.15	442	78.05	21662

Average of 2.512 to 2.522 min.: 3m63449.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.00	20125	87.95	1390	100.00	2355	108.00	17558
79.95	14625	88.85	748	100.95	12968	110.00	175139
81.00	24176	91.00	4555	101.80	121	110.95	28404
82.00	5149	91.85	5650	102.10	858	111.90	3984
82.80	1609	93.00	38543	102.90	2190	112.80	258
83.00	2097	93.95	2348	103.20	1740	112.95	1207
83.90	7345	94.95	1717	103.40	972	113.60	209
85.00	4063	95.75	722	103.90	8311	114.10	88
85.90	11358	96.05	1054	105.00	7892	114.50	209
86.80	788	98.00	29749	105.95	233	114.70	158
87.05	2440	98.95	21399	106.95	102882	117.00	96208

Average of 2.512 to 2.522 min.: 3m63449.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.00	7674	129.90	11860	138.90	1064	147.95	19371
118.80	303	131.15	2513	139.90	2204	149.05	4560
119.90	1771	131.90	1850	140.95	17053	150.05	1736
120.90	339	132.20	180	142.00	5221	150.85	1878
122.05	9263	132.95	1584	142.95	3198	151.20	1215
123.00	10878	134.00	5577	143.85	1251	151.75	1495
124.00	5149	135.00	9527	145.25	771	152.00	415
125.00	5391	136.05	4897	145.90	476	153.05	5698
127.00	344619	137.05	5853	146.05	3238	154.05	4567
128.05	28474	137.85	1071	146.90	2984	155.05	8973
129.00	139392	138.05	379	147.10	4602	156.00	15252

Average of 2.512 to 2.522 min.: 3m63449.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.00	3250	163.80	131	172.80	1565	181.80	279
158.00	2004	164.10	1285	173.10	2802	182.05	1669
158.20	1346	165.00	7324	174.05	7827	182.90	212
158.95	3222	166.00	1024	175.10	14910	183.20	1331
160.05	5648	167.00	38381	176.00	3865	183.90	644
160.90	989	168.00	18399	176.90	1188	184.20	1408
161.05	6979	169.05	3742	177.05	5539	185.00	14382
161.80	766	170.00	1510	178.00	886	186.05	92475
162.10	1867	170.95	1522	178.95	28186	187.00	28159
162.60	95	171.85	1916	179.95	18129	187.95	3834
162.85	633	172.10	2108	180.95	7665	189.00	6730

Average of 2.512 to 2.522 min.: 3m63449.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
189.70	102	198.00	577557	206.00	166525	213.95	566
190.05	970	199.00	39366	207.05	19128	214.85	1257
191.10	2410	200.05	3463	208.05	5559	215.20	436
192.05	8557	200.95	1659	209.05	2520	216.00	1786

192.80	806	201.70	2691	209.95	1766	217.00	46088
193.00	7805	202.10	596	210.90	1104	218.05	5976
193.70	445	202.90	2951	211.10	6072	218.90	345
194.05	2480	203.10	3178	211.70	261	219.10	205
195.10	2489	203.90	3511	211.85	1304	219.65	1003
195.90	9905	204.05	23947	213.15	1066	220.95	24775
196.10	5105	205.05	48107	213.80	80	221.95	4986

Average of 2.512 to 2.522 min.: 3m63449.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
223.10	13143	232.90	320	239.10	1471	248.80	1695
224.00	96880	233.15	621	240.00	1370	249.20	728
225.00	25067	233.80	499	241.00	2748	249.95	841
226.00	1671	233.95	2297	241.90	3177	250.90	1091
227.00	45952	234.70	296	242.20	2247	251.70	389
227.90	1295	235.05	3343	243.10	6050	251.90	932
228.05	6142	235.80	137	244.00	61656	252.80	326
229.00	9435	236.10	2313	245.05	9041	253.15	4305
230.00	1570	236.70	247	246.05	14156	254.00	1080
231.00	3700	236.95	3027	247.05	3197	255.00	369976
231.95	755	238.05	778	248.00	1263	256.00	51709

Average of 2.512 to 2.522 min.: 3m63449.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
257.00	3921	265.05	11461	271.05	1168	278.95	839
258.00	24992	265.90	2011	272.10	936	280.10	408
258.80	1843	266.40	103	272.30	1143	281.25	251
259.00	1895	266.65	319	273.05	12208	281.90	148
259.80	82	267.10	86	274.05	31318	282.05	247
260.05	683	267.65	522	275.00	136907	282.75	1587
261.05	591	268.45	322	275.90	1654	283.15	1015
261.80	327	269.20	26	276.10	17187	283.90	871
262.60	91	270.00	385	277.00	14781	284.40	142
263.10	101	270.30	566	277.90	1369	285.10	3088
263.80	1086	270.80	871	278.10	1430	285.85	346

Average of 2.512 to 2.522 min.: 3m63449.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
287.75	243	295.00	1097	305.00	78	313.85	2026
288.20	223	296.00	57717	308.10	862	315.00	5929
289.05	320	297.05	7693	308.80	164	316.00	2596
289.50	100	297.90	228	309.00	292	317.00	267
289.90	232	298.90	281	309.60	300	317.25	204
290.20	472	300.25	166	310.00	262	319.50	127
290.95	560	300.80	520	310.20	107	319.85	200
291.90	852	301.55	563	311.10	220	320.50	213
293.05	4264	302.20	835	311.80	116	320.90	744
293.80	577	303.00	4917	312.95	642	321.20	657
294.20	703	303.95	1436	313.30	87	322.00	102

Average of 2.512 to 2.522 min.: 3m63449.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
323.05	13495	332.00	1289	343.60	222	354.85	835
324.00	3213	332.95	1732	345.95	3994	355.20	391
325.15	413	334.00	10529	346.20	207	356.30	123
325.90	286	335.05	1943	346.80	757	357.00	200
326.30	276	336.05	231	349.85	427	359.35	408
326.95	3535	339.75	463	350.20	92	360.70	170
327.90	1213	340.40	205	350.90	137	360.90	348
328.10	1303	341.00	1058	352.10	5663	363.20	168
328.90	620	341.20	1100	353.05	3819	363.80	241
329.70	79	341.70	122	353.90	160	365.00	27716
330.90	215	342.05	401	354.05	4562	365.95	3606

Average of 2.512 to 2.522 min.: 3m63449.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
366.20	210	377.30	201	398.25	311	415.20	90
366.70	342	377.80	115	401.00	686	417.50	149
367.00	200	383.05	1811	401.50	141	418.25	315
369.60	128	384.05	871	401.85	2673	418.90	467
370.00	443	385.00	173	402.30	1360	419.60	143
371.05	1634	389.90	1068	402.95	3907	420.10	407
371.90	648	390.85	1210	404.05	1546	420.95	3552
372.10	7237	391.10	550	410.00	115	421.80	1534
372.80	611	391.70	391	410.70	95	422.10	1433
373.10	1641	392.00	180	411.50	81	423.05	23175
373.90	234	397.00	79	414.80	320	424.00	5400

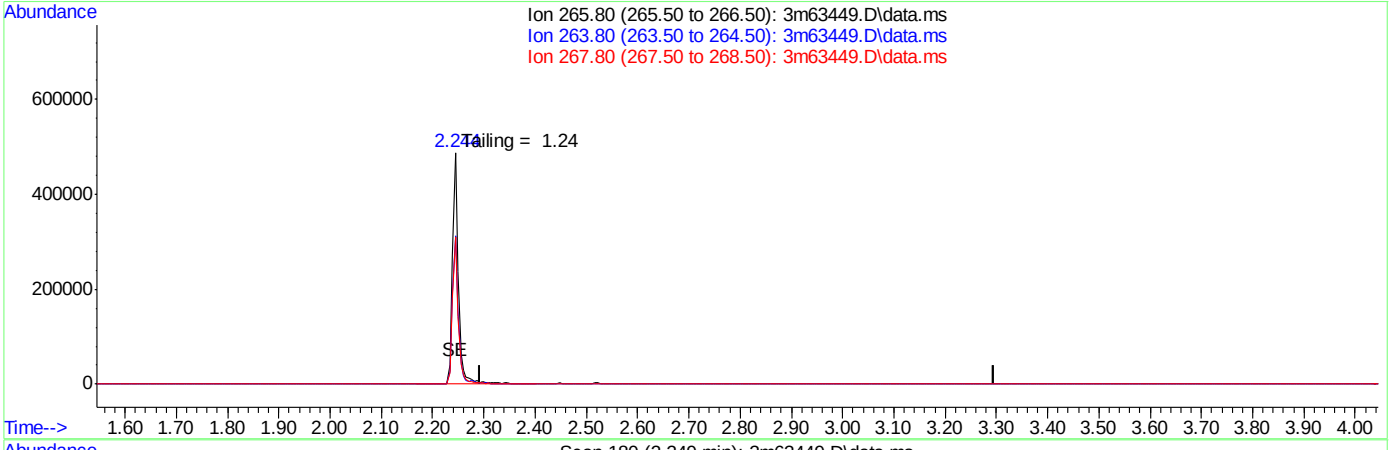
Average of 2.512 to 2.522 min.: 3m63449.D\data.ms
dftpp
Modified:subtracted

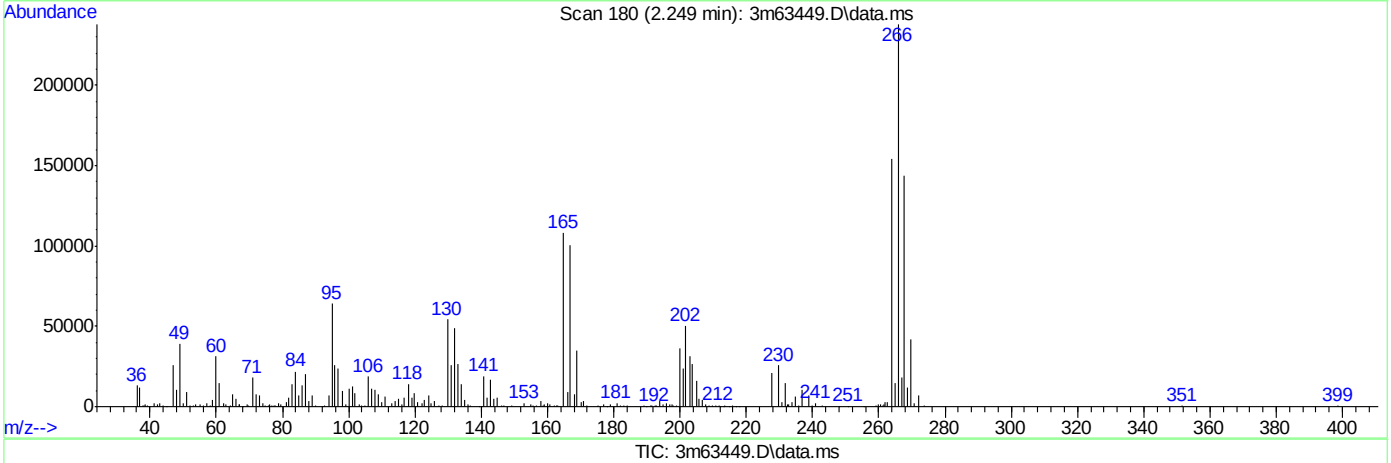
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
424.80	425	431.40	730	436.60	845	443.10	77767
425.20	514	431.70	250	437.20	1047	444.05	7055
426.50	564	432.65	814	437.50	1115	445.00	85
426.90	169	433.05	973	438.05	1951	445.20	708
427.30	227	433.60	1176	438.50	685		
428.25	262	434.10	1127	439.05	1629		
428.60	105	434.50	1517	439.50	743		
429.55	254	435.00	801	439.70	922		
430.10	499	435.45	1537	440.00	91		
430.50	321	435.90	110	441.10	64460		
431.20	505	436.30	1380	442.05	397205		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3007\
Data File : 3m63449.D
Acq On : 4 Aug 2016 12:05 pm
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3007
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 12:09:33 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: 3m63449.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

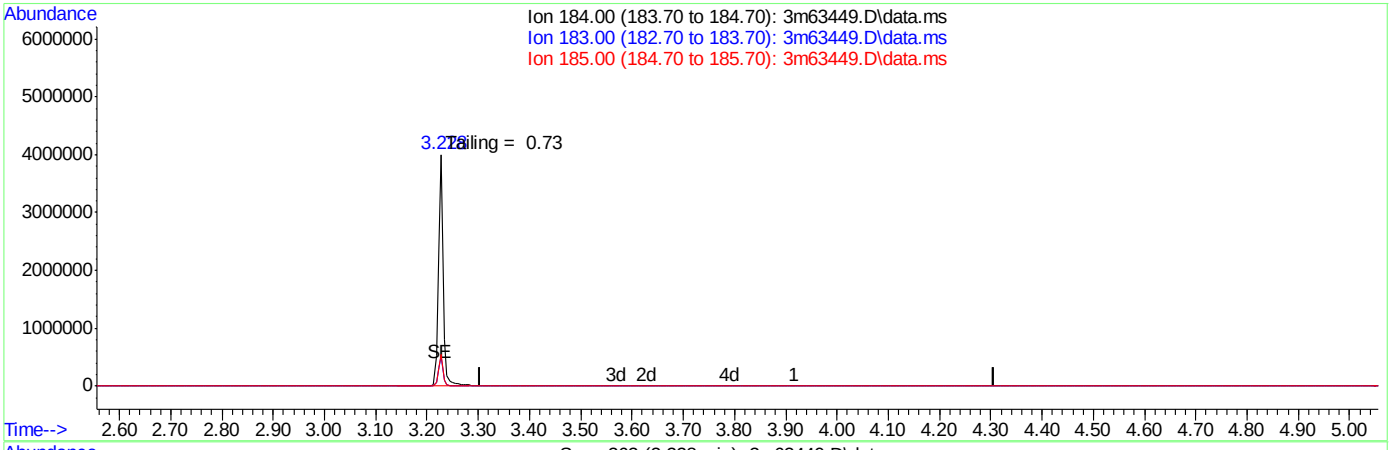
response 0

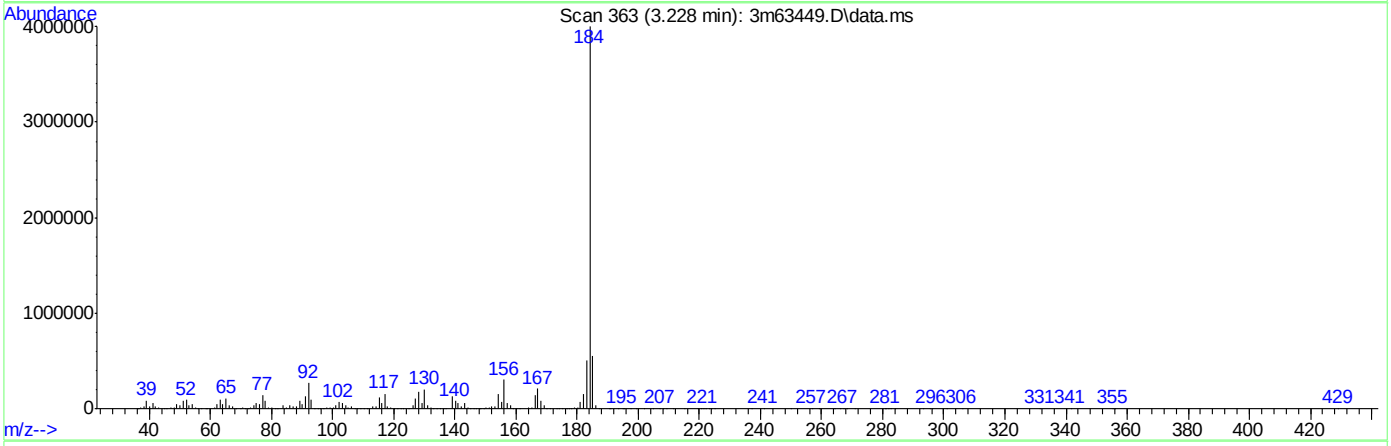
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3007\
Data File : 3m63449.D
Acq On : 4 Aug 2016 12:05 pm
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3007
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 12:09:33 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: 3m63449.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

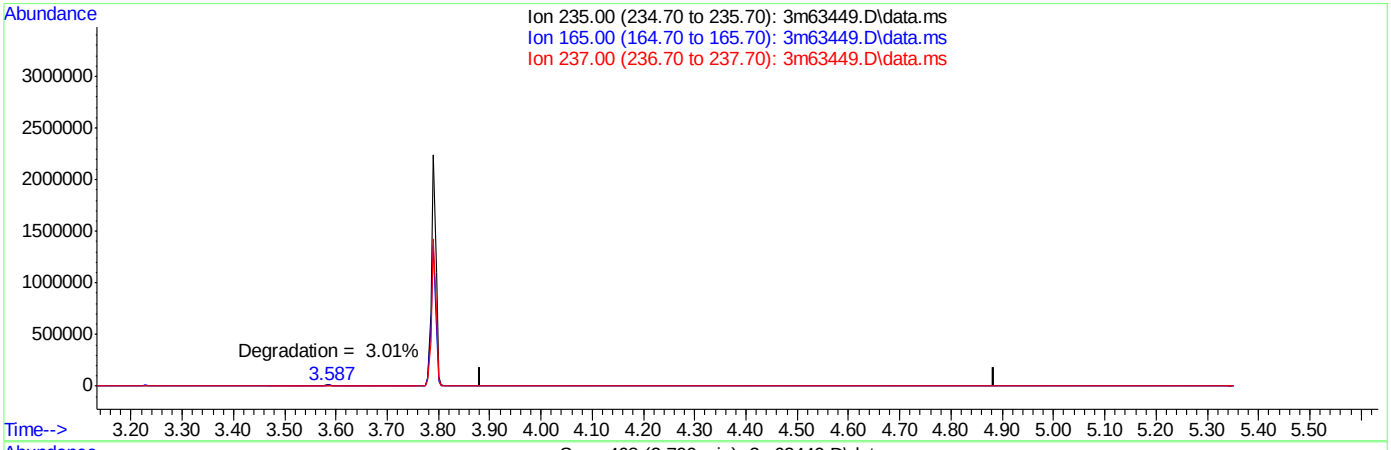
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

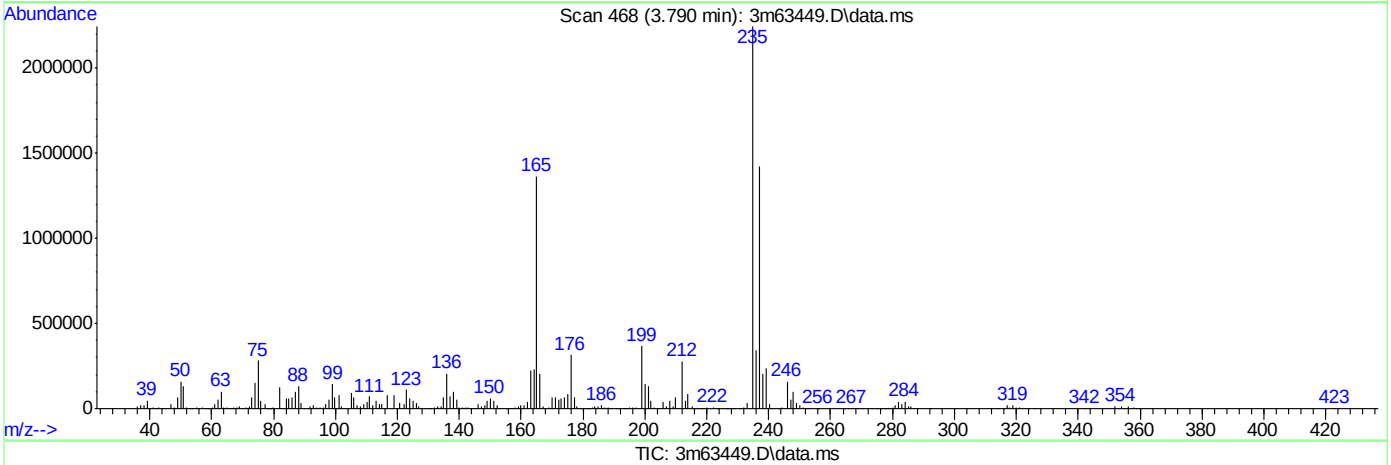
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3007\
Data File : 3m63449.D
Acq On : 4 Aug 2016 12:05 pm
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3007
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 12:09:33 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: 3m63449.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

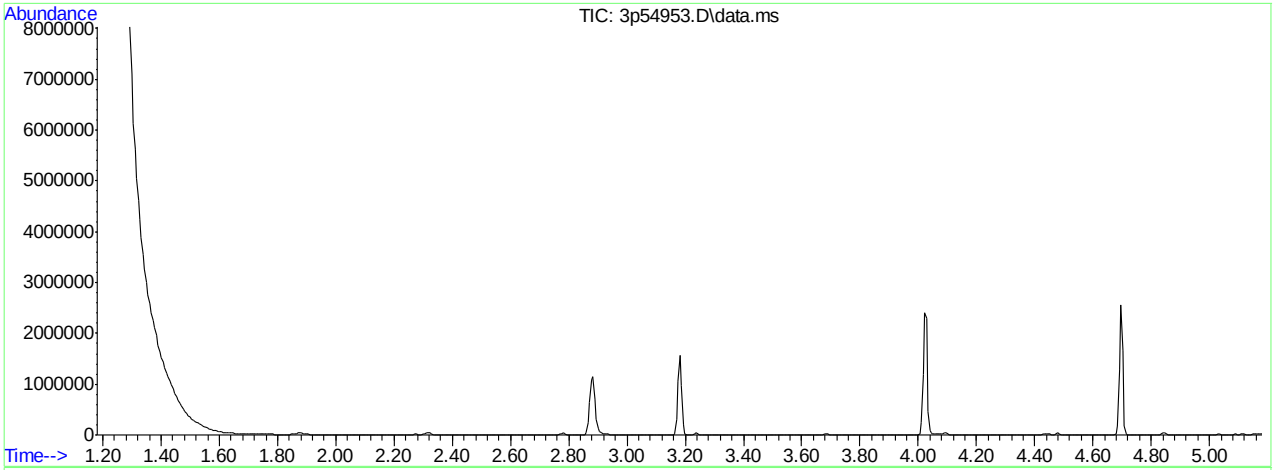
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

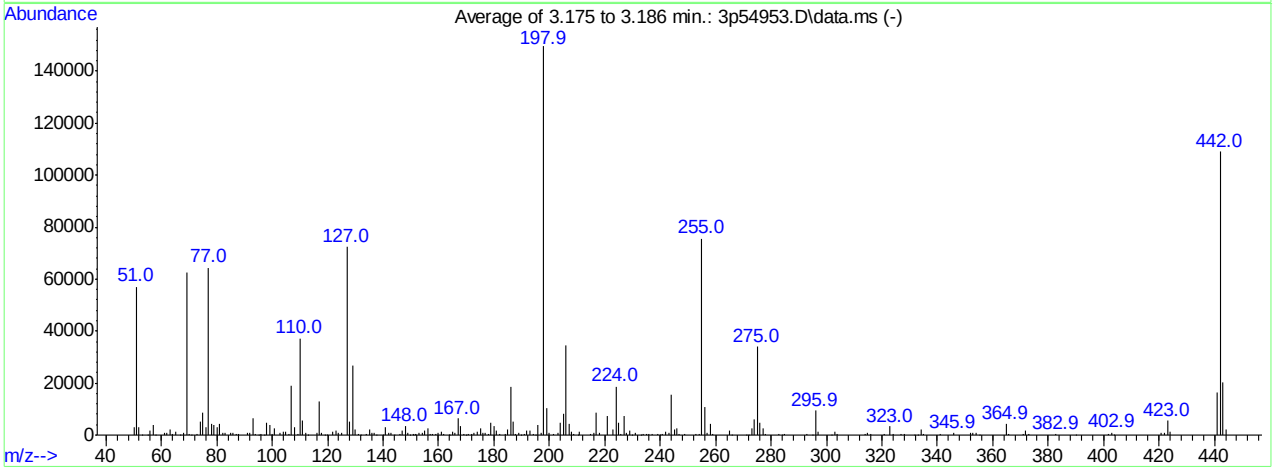
SGS ACCUTEST JC24622

DFTPP

Data File : C:\msdchem\1\data\E3P2503\3p54953.D Vial: 1
Acq On : 6 Jul 2016 9:12 am Operator: hankc
Sample : DFTPP Inst : MSGC3P
Misc : op94978,e3p2503 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 330, 331, 332; Background Corrected with Scan 326

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.2	57126	PASS
68	69	0.00	2	1.7	1062	PASS
69	198	0.00	100	41.8	62449	PASS
70	69	0.00	2	0.6	387	PASS
127	198	40	60	48.4	72301	PASS
197	198	0.00	1	0.7	1015	PASS
198	198	100	100	100.0	149501	PASS
199	198	5	9	6.8	10162	PASS
275	198	10	30	22.7	33995	PASS
365	198	1	100	2.8	4170	PASS
441	443	0.01	100	81.6	16547	PASS
442	198	40	100	73.0	109091	PASS
443	442	17	23	18.6	20290	PASS

3p54953.D DFTPP3P.M Fri Jul 08 09:11:01 2016

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	2955	63.95	301	77.00	64389	90.95	1064
51.00	57126	65.00	1197	78.00	4401	92.00	940
52.00	3031	66.90	74	79.00	3741	93.00	6346
52.95	145	68.00	1062	80.00	2904	93.95	475
54.95	92	69.00	62449	81.00	4303	94.90	222
56.00	1681	70.00	387	82.00	1086	95.90	422
57.00	3969	70.90	73	82.95	981	97.00	225
57.95	174	73.00	326	84.95	857	98.00	4664
60.95	683	74.00	5251	85.90	913	99.00	4074
62.00	761	75.00	8784	86.95	629	99.95	407
63.00	2173	76.00	2955	87.85	294	100.95	2404

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
102.90	756	116.00	943	129.00	26797	141.95	1075
104.00	1459	117.00	13133	129.90	2257	142.95	764
104.95	1429	117.90	997	130.90	463	143.90	80
106.05	507	118.90	83	132.00	166	145.90	542
107.00	18956	119.95	178	133.95	652	146.95	1539
108.00	3037	121.95	1137	134.95	2002	148.00	3486
109.05	623	123.00	1852	135.90	861	148.90	761
110.00	37213	123.95	857	136.95	1076	149.90	217
111.00	5431	124.95	833	137.75	176	150.90	119
112.00	680	127.00	72301	139.90	222	151.05	269
113.00	184	128.00	5277	140.95	3070	151.60	82

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.80	232	163.80	77	174.00	1335	186.00	18693
152.95	922	164.00	80	175.00	2520	187.00	5103
154.00	697	164.95	1126	176.00	734	187.90	524
155.00	1821	166.00	1082	176.90	1042	188.90	1043
156.00	2805	167.00	6428	177.90	378	189.90	69
157.00	558	167.95	3248	178.90	4649	190.90	527
157.90	538	168.95	570	180.00	3249	191.95	1571
158.90	430	169.95	163	180.95	1558	192.95	1817
159.95	1002	170.90	256	181.90	307	194.00	342
160.95	1447	171.95	543	183.95	377	194.90	108
161.90	411	172.95	791	185.00	2330	195.95	4036

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
196.90	1015	208.90	341	225.95	440	239.00	281
197.90	149501	210.30	175	226.95	7494	239.90	183
198.90	10162	210.95	1352	227.95	999	240.85	402
199.95	720	214.90	343	228.90	1661	241.95	1113
201.35	657	216.00	706	229.90	183	243.00	1054
202.90	916	216.90	8848	230.95	689	244.00	15577
204.00	4963	217.90	1082	232.90	82	245.00	2075
205.00	8235	221.00	7477	233.90	525	245.95	2728
206.00	34419	222.95	2104	234.90	539	246.90	605
206.95	4313	224.00	18613	235.85	386	248.90	487
207.90	1104	225.00	4589	236.95	626	252.85	359

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.95	534	273.95	6191	296.90	1394	327.90	335
255.00	75555	275.00	33995	302.00	75	331.90	126
256.00	10922	276.00	4787	303.00	1110	332.95	230
256.90	917	276.95	2683	303.85	294	334.00	1982

DFTPP3P.M Fri Jul 08 09:10:38 2016 Page: 0

257.95	4171	277.85	452	313.90	461	334.90	539
258.90	640	282.95	373	314.90	1058	340.95	414
264.95	1632	283.90	111	315.95	528	345.90	763
265.80	87	284.95	500	320.95	344	351.95	913
270.90	89	292.95	628	323.00	3263	352.95	698
271.90	86	294.90	78	324.00	600	353.95	915
272.95	2479	295.95	9348	326.90	607	355.00	102

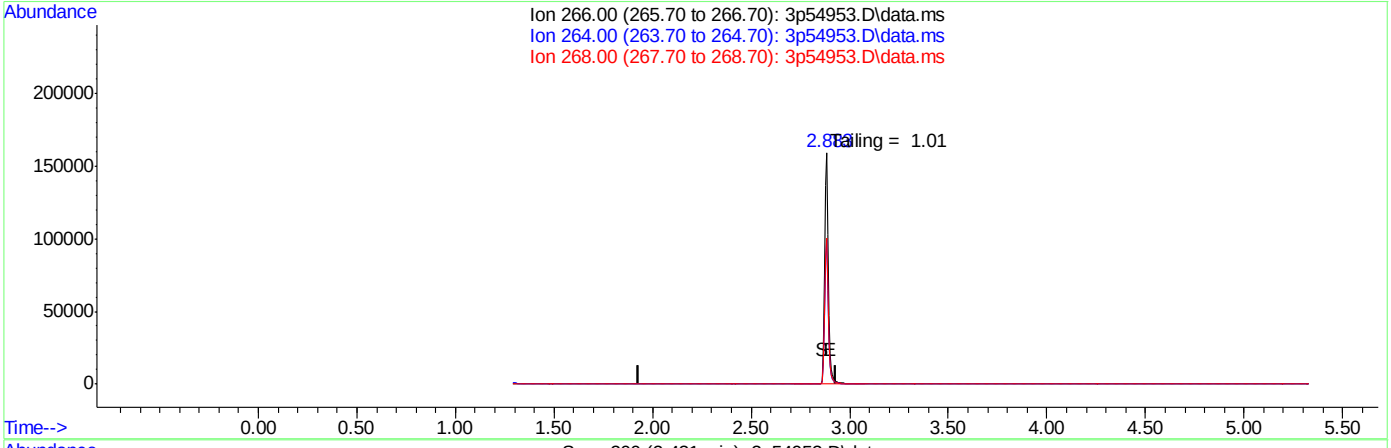
Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

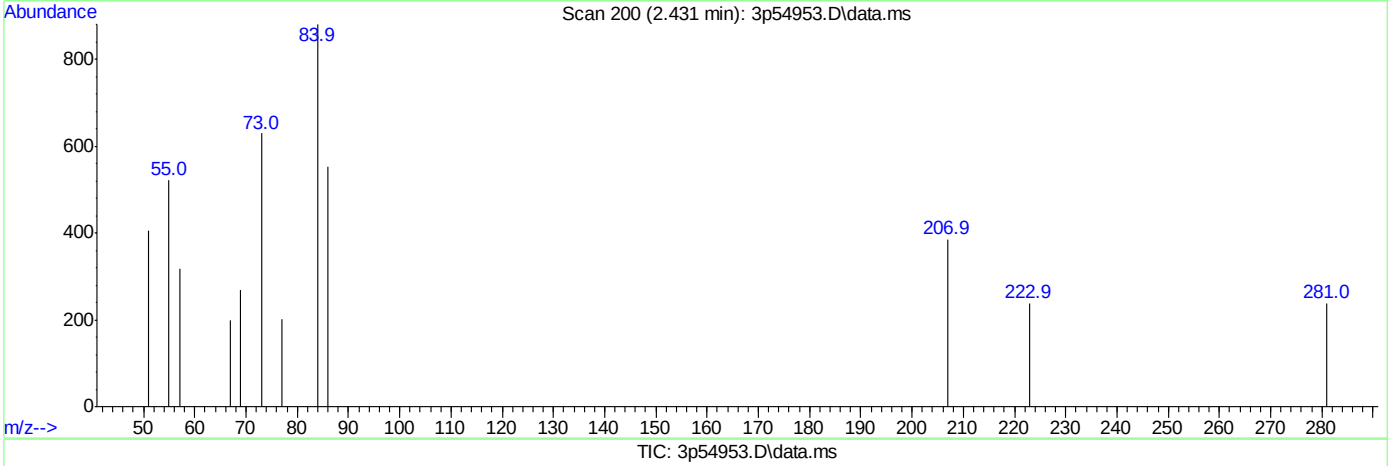
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
364.90	4170	421.95	702				
365.90	597	423.00	5541				
370.90	237	424.00	1113				
371.95	1727	441.00	16547				
372.90	423	442.00	109091				
382.90	397	443.00	20290				
389.90	210	444.00	2003				
401.85	620						
402.95	941						
403.90	227						
420.90	854						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54953.D
Acq On : 6 Jul 2016 9:12 am
Operator : hankc
Sample : DFTPP
Misc : op94978,e3p2503
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 09:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p54953.D\data.ms

(1) Pentachlorophenol

2.431min (-2.431) 0.00

response 0

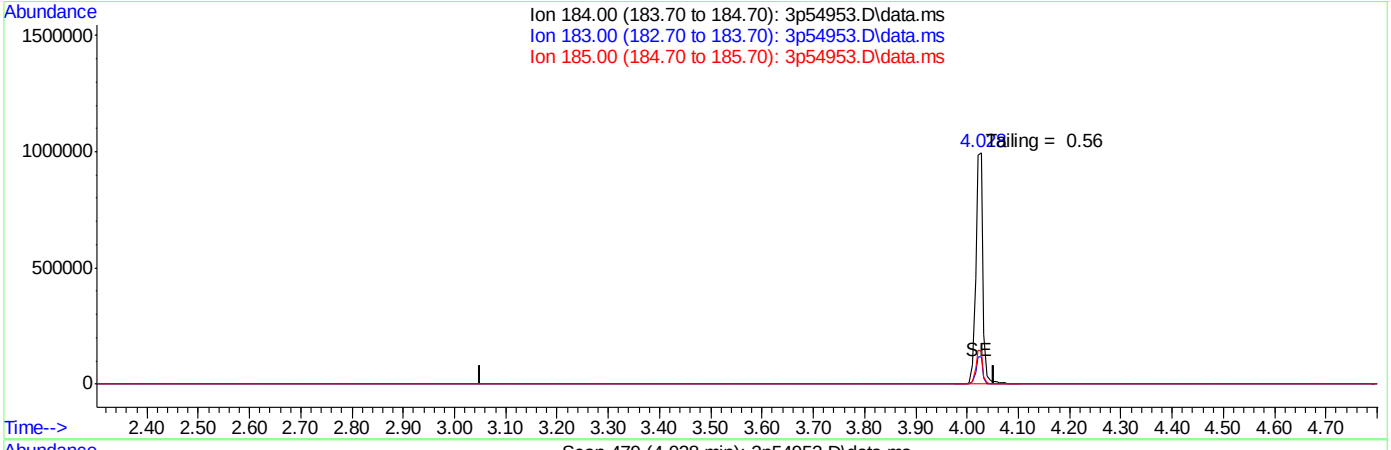
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

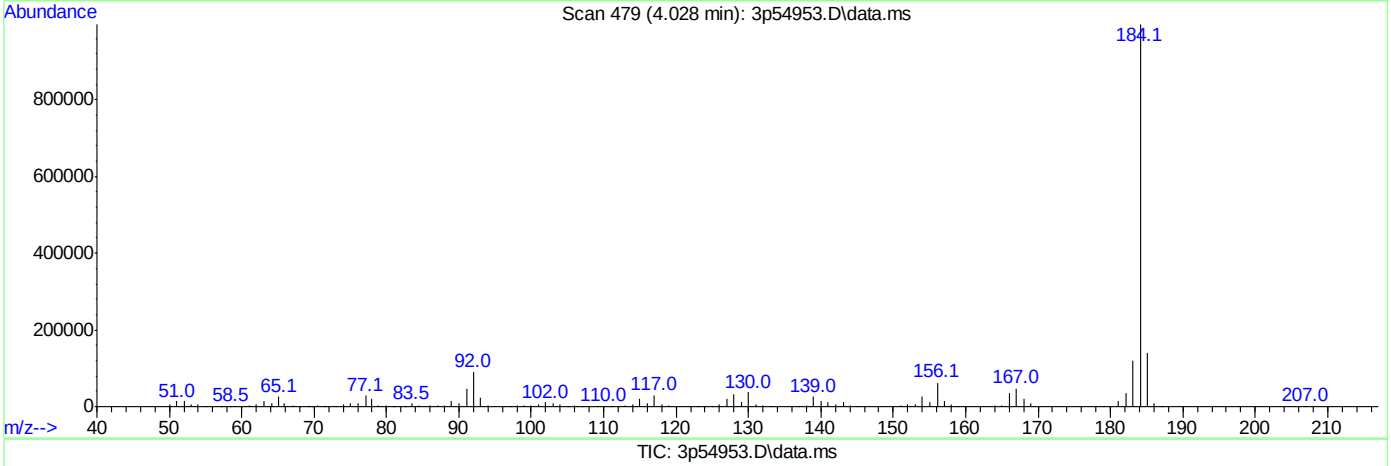
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54953.D
Acq On : 6 Jul 2016 9:12 am
Operator : hankc
Sample : DFTPP
Misc : op94978,e3p2503
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 09:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p54953.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

response 0

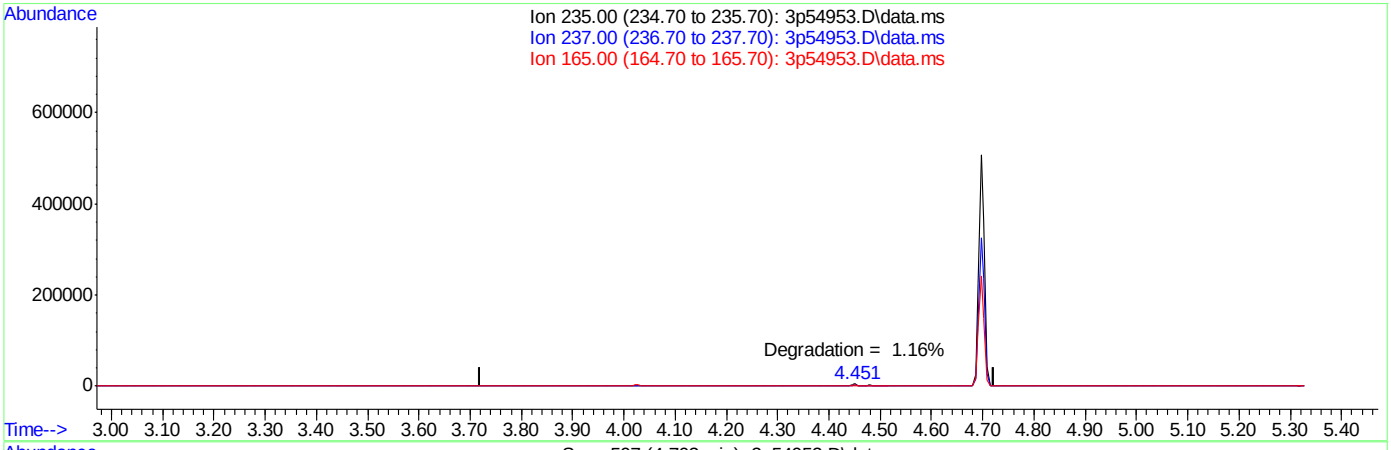
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

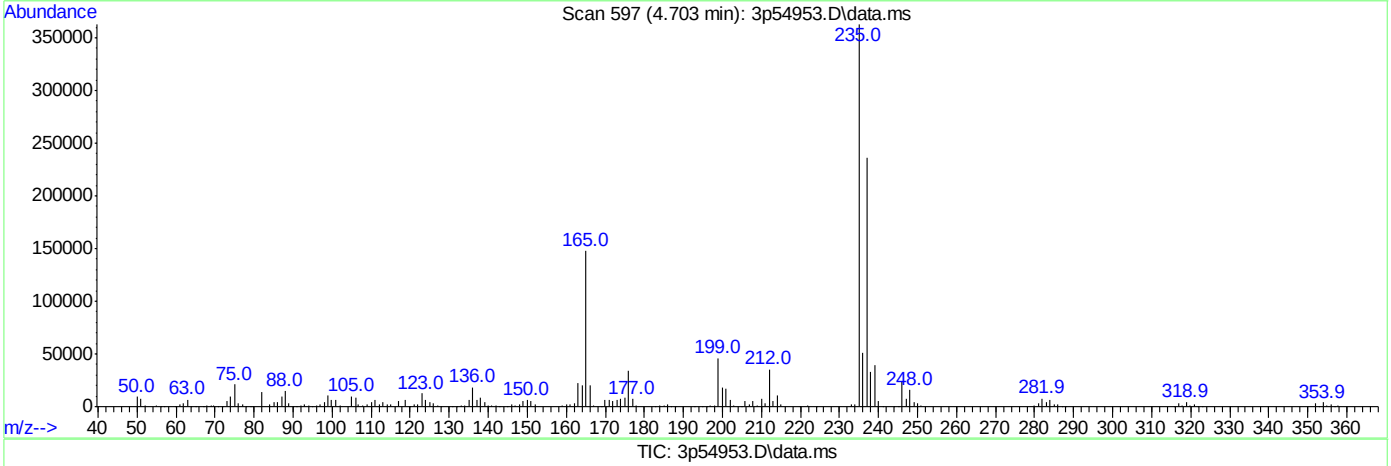
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54953.D
Acq On : 6 Jul 2016 9:12 am
Operator : hankc
Sample : DFTPP
Misc : op94978,e3p2503
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 09:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p54953.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

response 0

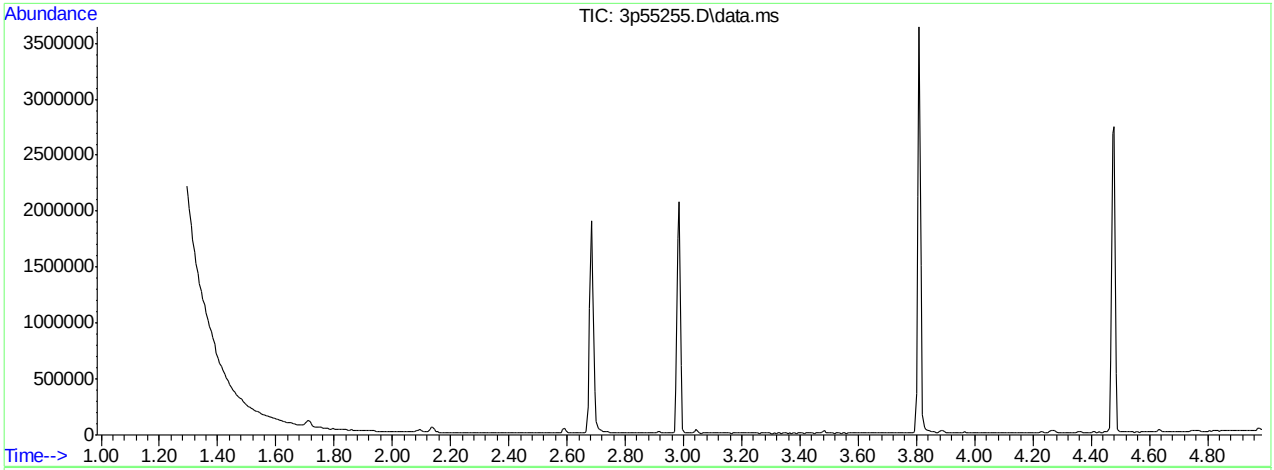
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

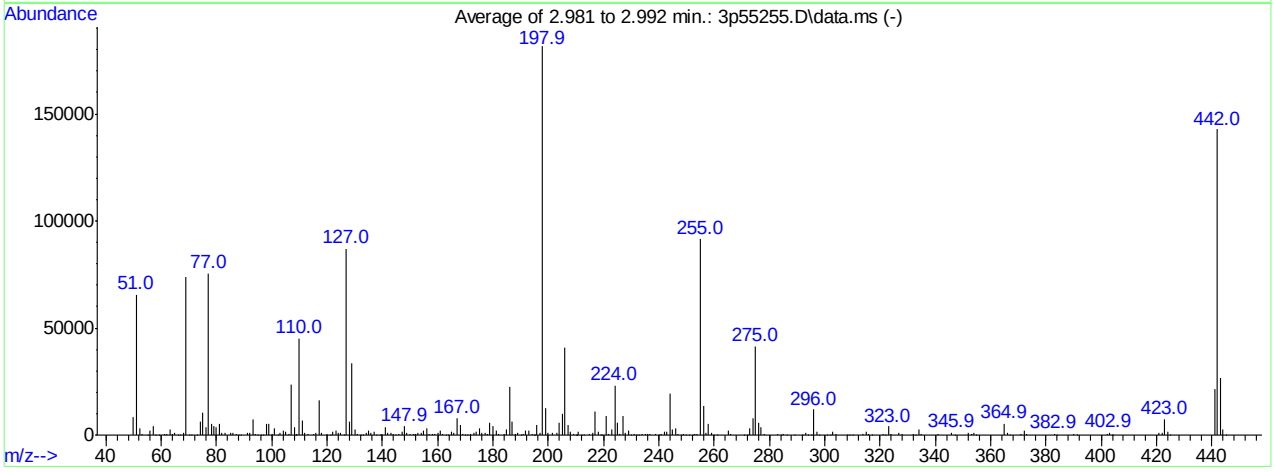
SGS ACCUTEST JC24622

DFTPP

Data File : C:\msdchem\1\data\E3P2524\3p55255.D Vial: 1
Acq On : 26 Jul 2016 8:27 am Operator: ashleyn
Sample : dftpp Inst : MSGC3P
Misc : op95775a,e3p2524 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 296, 297, 298; Background Corrected with Scan 292

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	65550	PASS
68	69	0.00	2	1.7	1283	PASS
69	198	0.00	100	40.7	73803	PASS
70	69	0.00	2	0.4	270	PASS
127	198	40	60	48.0	87165	PASS
197	198	0.00	1	0.6	1165	PASS
198	198	100	100	100.0	181523	PASS
199	198	5	9	6.8	12408	PASS
275	198	10	30	22.8	41400	PASS
365	198	1	100	2.9	5300	PASS
441	443	0.01	100	80.5	21325	PASS
442	198	40	100	78.6	142704	PASS
443	442	17	23	18.6	26480	PASS

3p55255.D DFTPP3P.M Tue Jul 26 16:21:26 2016

Average of 2.981 to 2.992 min.: 3p55255.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	8310	63.00	2622	75.00	10261	87.00	777
51.00	65550	63.95	434	76.00	3700	87.90	256
52.10	3364	65.00	1295	77.00	75449	88.80	168
53.05	303	65.90	98	78.00	5165	91.00	1072
55.00	220	66.90	137	78.95	4245	92.00	1191
56.00	2012	68.00	1283	80.00	3480	93.00	7613
57.00	4397	69.00	73803	81.00	5018	94.00	581
58.05	248	69.95	270	82.00	1038	94.90	41
59.00	78	71.00	36	83.00	1267	95.95	272
61.00	752	73.00	265	85.00	823	97.00	96
61.95	773	74.00	6086	85.90	1028	97.95	5328

Average of 2.981 to 2.992 min.: 3p55255.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.00	5112	109.00	615	122.00	1340	132.80	124
99.95	480	110.00	45126	123.00	2266	134.00	837
101.00	3004	111.00	6801	123.95	941	134.95	2262
101.95	186	112.00	897	125.00	1186	135.90	1135
102.95	1033	112.95	291	126.10	253	136.95	1469
103.95	1867	114.90	284	127.00	87165	137.95	232
104.95	1405	116.00	1134	128.00	6549	138.95	210
106.00	652	117.00	16275	129.00	33320	139.95	346
107.00	23348	118.00	1273	130.00	2893	140.95	3620
108.00	3768	120.05	305	130.95	520	141.90	1284
108.70	88	121.10	97	132.05	278	142.90	978

Average of 2.981 to 2.992 min.: 3p55255.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.00	290	153.90	940	164.90	1433	175.95	941
144.85	229	155.00	2303	165.95	1182	177.00	1227
145.95	618	156.00	3388	167.00	8097	177.95	559
146.95	1687	156.90	608	168.00	4555	178.90	5965
147.95	4273	157.95	696	169.00	691	180.00	4273
148.90	1014	158.90	653	170.00	190	181.00	1920
149.90	311	159.95	1242	170.80	279	181.90	319
151.05	604	161.00	1921	171.90	622	183.90	392
151.50	176	161.90	580	173.00	1017	185.00	2752
151.95	321	162.90	167	174.00	1634	186.00	22570
152.95	1231	163.85	163	175.00	3119	187.00	6158

Average of 2.981 to 2.992 min.: 3p55255.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
187.90	370	196.90	1165	208.95	332	219.10	78
188.10	341	197.90	181523	209.90	242	220.95	8765
188.90	1186	198.90	12408	210.40	130	221.70	772
189.90	267	199.90	858	210.95	1542	223.00	2544
190.90	674	201.40	845	212.00	119	224.00	23235
191.90	1948	202.90	1116	212.80	74	225.00	5586
193.00	1902	204.00	6004	214.95	400	225.95	642
194.00	379	205.00	10068	215.95	955	227.00	9166
194.80	203	206.00	40612	216.90	10903	228.00	1304
195.00	80	207.00	4752	217.90	1443	228.90	2062
195.95	4740	208.00	1410	218.90	89	229.90	257

Average of 2.981 to 2.992 min.: 3p55255.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
230.95	790	243.00	1383	253.90	585	272.00	230
232.00	90	244.00	19338	255.00	91539	273.00	2961
232.85	186	245.00	2407	256.00	13604	274.00	7706
233.85	563	245.95	3423	256.95	1108	275.00	41400

DFTPP3P.M Tue Jul 26 16:21:21 2016 Page: 0

235.00	732	246.95	659	258.00	5327	276.00	5656
235.95	349	247.90	101	258.95	819	276.95	3438
236.90	775	248.95	670	260.00	105	277.95	584
238.90	337	249.80	69	260.90	95	283.00	484
239.90	222	250.85	167	265.00	2097	284.00	196
240.90	460	252.00	146	265.90	496	284.95	624
242.00	1341	252.90	455	270.95	189	286.00	71

Average of 2.981 to 2.992 min.: 3p55255.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.90	71	303.95	291	323.95	758	352.95	769
291.90	97	307.90	89	326.90	840	353.95	1176
292.95	941	308.90	88	327.95	397	354.90	262
293.90	69	310.10	100	331.85	292	364.95	5300
295.00	206	313.95	470	332.90	242	365.90	834
296.00	12010	314.90	1414	334.00	2466	366.90	75
296.95	1701	315.95	678	335.00	629	370.95	449
297.90	72	317.00	70	340.95	484	372.00	2186
300.95	156	320.90	404	345.95	1072	372.95	547
301.90	106	322.00	95	346.90	167	382.90	660
303.00	1409	323.00	4047	351.95	1159	383.80	103

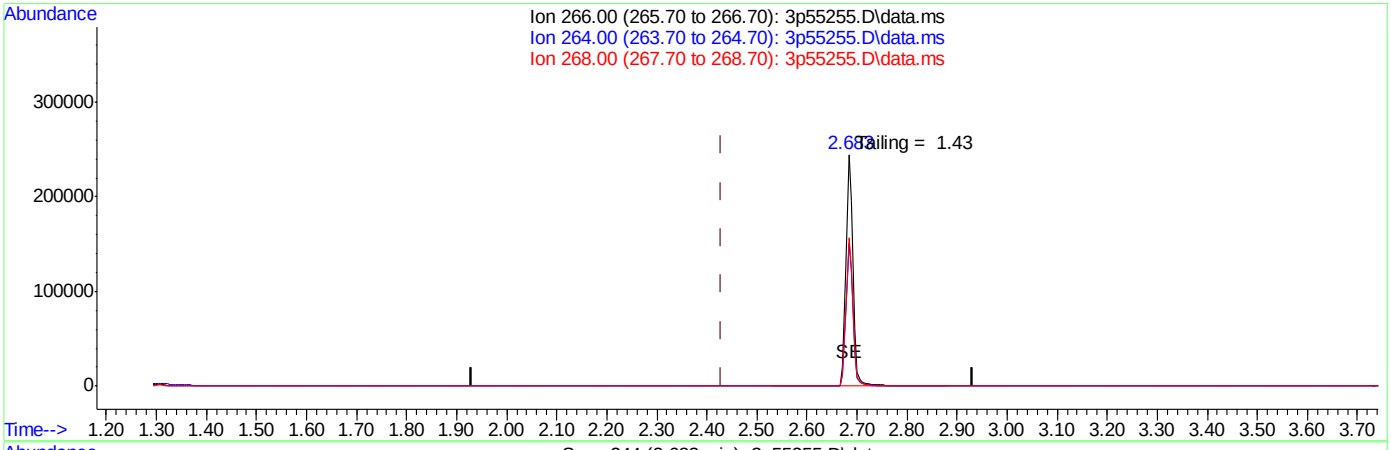
Average of 2.981 to 2.992 min.: 3p55255.D\data.ms
dftpp
Modified:subtracted

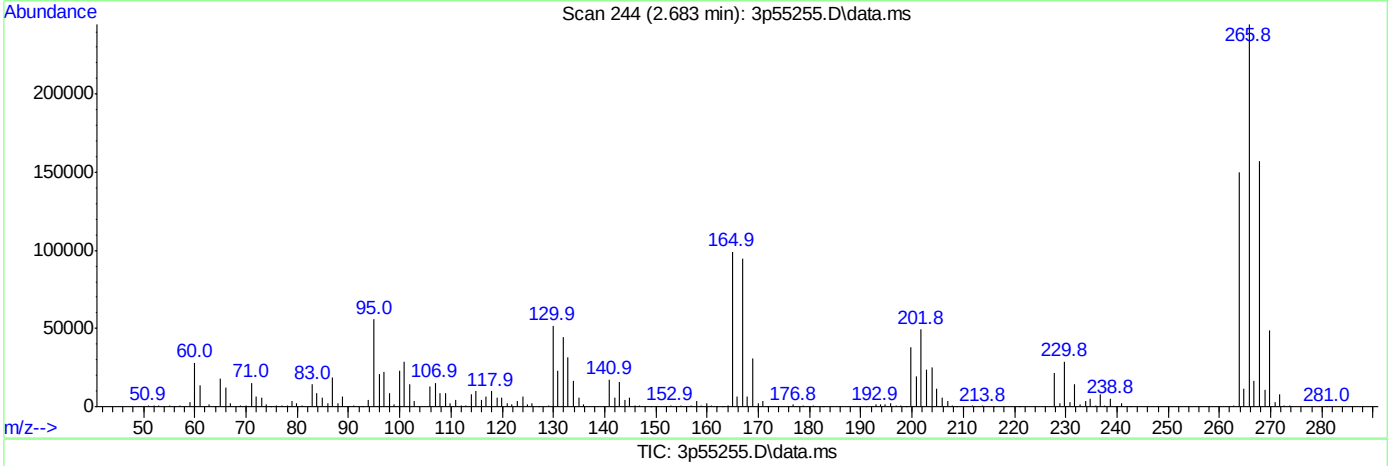
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
389.95	296	441.00	21325				
391.00	86	442.00	142704				
401.95	774	443.00	26480				
402.95	1072	444.00	2526				
403.80	93	444.95	187				
404.00	231						
420.95	1141						
421.90	934						
423.00	7465						
424.00	1718						
424.90	175						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55255.D
Acq On : 26 Jul 2016 8:27 am
Operator : ashleyn
Sample : dftpp
Misc : op95775a,e3p2524
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 26 08:49:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55255.D\data.ms

(1) Pentachlorophenol

2.683min (+0.252) 23.35 m

response 2343039

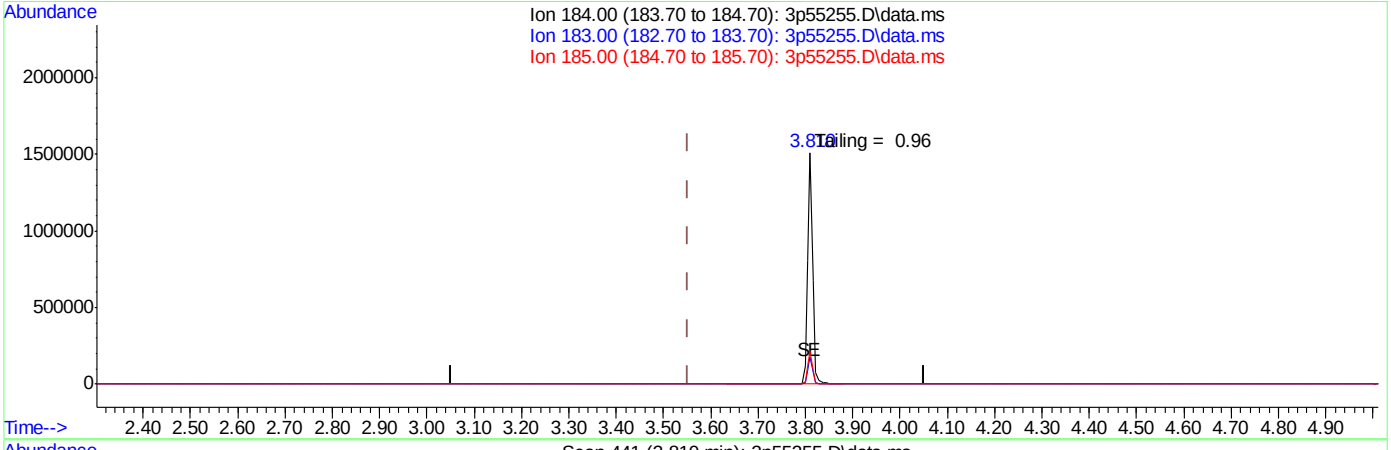
Ion	Exp%	Act%
266.00	100	100
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

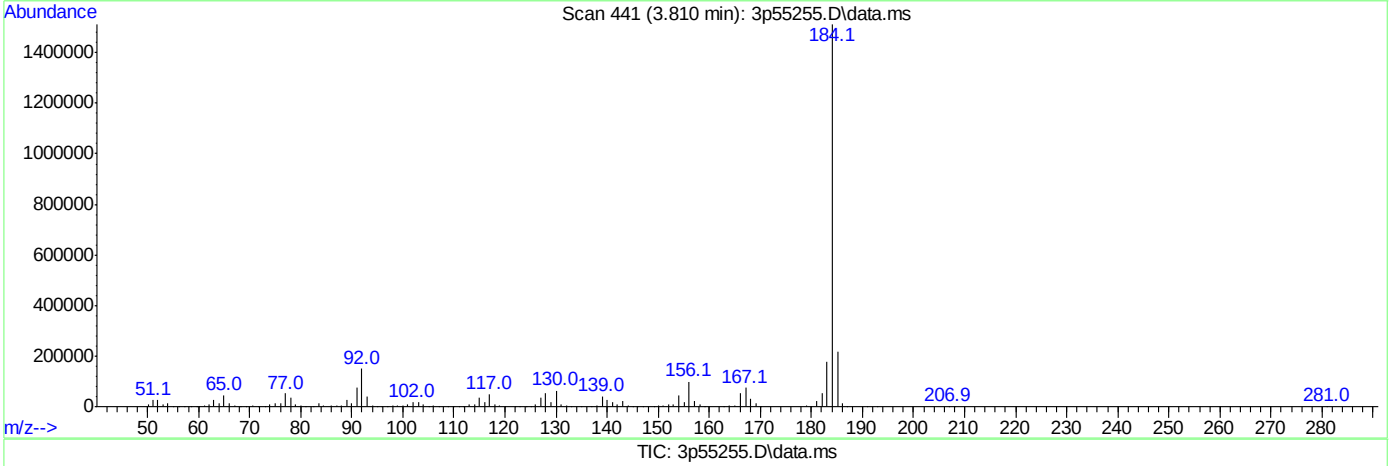
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55255.D
Acq On : 26 Jul 2016 8:27 am
Operator : ashleyn
Sample : dftpp
Misc : op95775a,e3p2524
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 26 08:49:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55255.D\data.ms

(2) Benzidine

3.810min (+0.258) 29.83 m

response 11317868

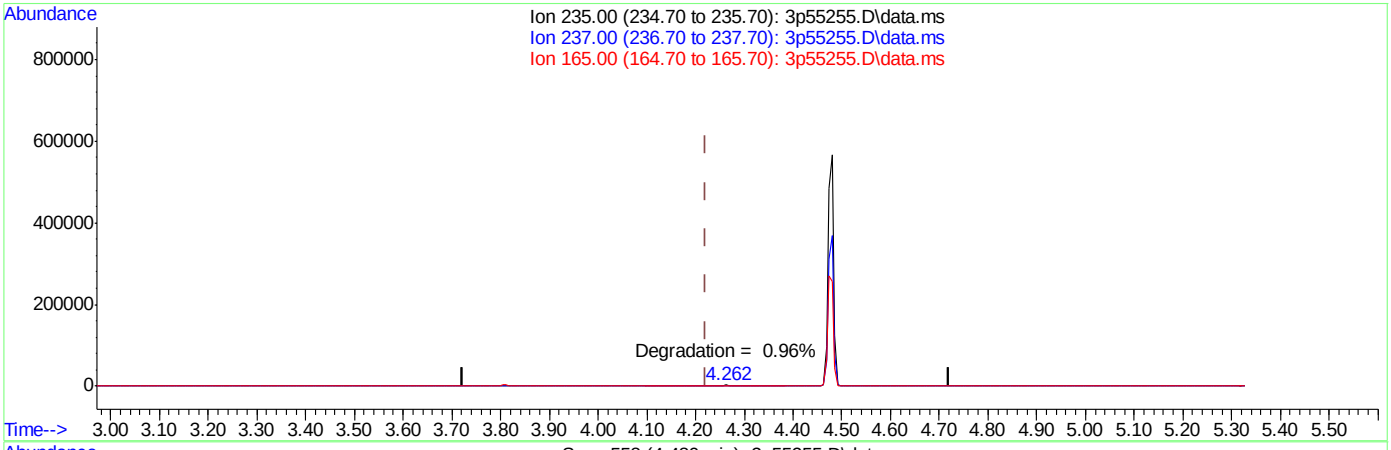
Ion	Exp%	Act%
184.00	100	100
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

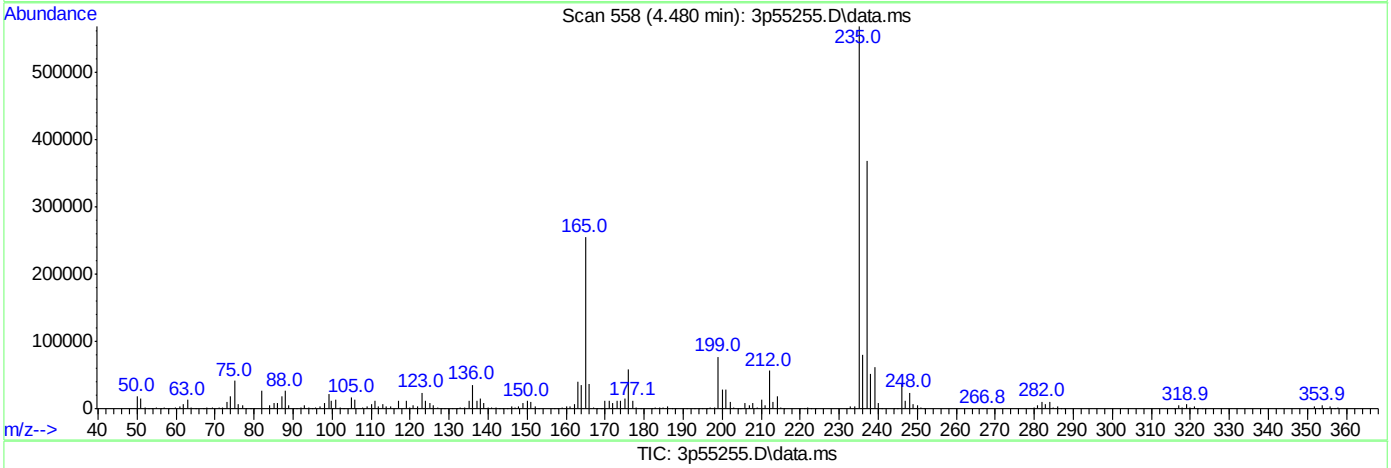
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55255.D
Acq On : 26 Jul 2016 8:27 am
Operator : ashleyn
Sample : dftpp
Misc : op95775a,e3p2524
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 26 08:49:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55255.D\data.ms

(3) PP-DDT

4.480min (+0.258) 26.07 m

response 4407315

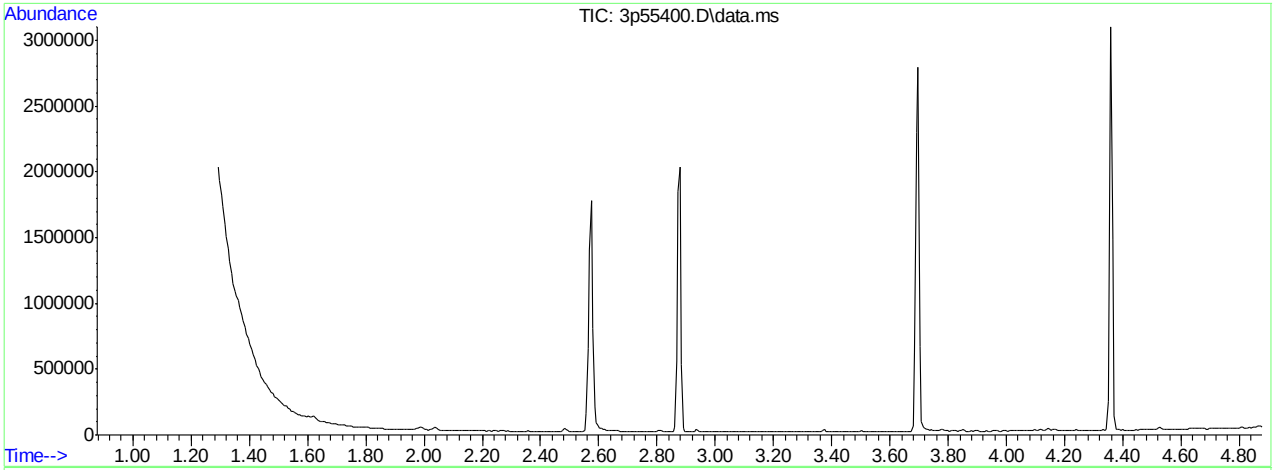
Ion	Exp%	Act%
235.00	100	100
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

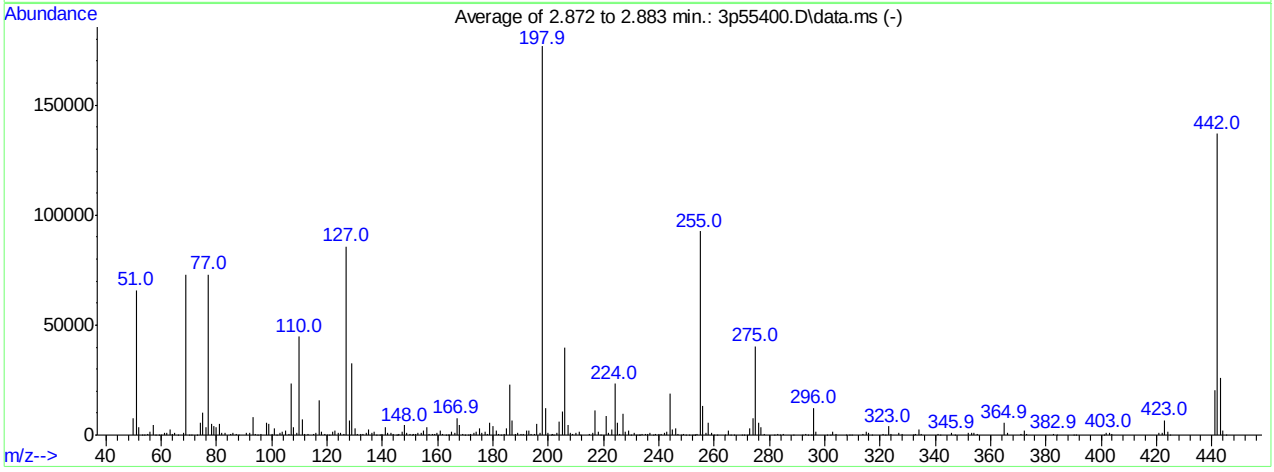
SGS ACCUTEST JC24622

DFTPP

Data File : C:\msdchem\1\data\E3P2534\3p55400.D Vial: 1
Acq On : 2 Aug 2016 8:55 am Operator: ashleyd
Sample : dftpp Inst : MSGC3P
Misc : op95837a,e3p2534 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 277, 278, 279; Background Corrected with Scan 272

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.2	65780	PASS
68	69	0.00	2	1.1	834	PASS
69	198	0.00	100	41.1	72656	PASS
70	69	0.00	2	0.3	253	PASS
127	198	40	60	48.6	85875	PASS
197	198	0.00	1	0.7	1192	PASS
198	198	100	100	100.0	176699	PASS
199	198	5	9	6.8	12012	PASS
275	198	10	30	22.9	40499	PASS
365	198	1	100	3.1	5432	PASS
441	443	0.01	100	78.8	20462	PASS
442	198	40	100	77.6	137056	PASS
443	442	17	23	19.0	25979	PASS

3p55400.D DFTPP3P.M Tue Aug 02 12:11:08 2016

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	7782	61.00	819	73.95	5736	85.90	1020
51.00	65780	62.00	914	75.00	10205	86.95	772
52.00	3477	63.00	2354	76.00	3388	87.90	160
52.95	162	63.95	373	77.00	72911	90.95	1075
53.90	170	64.95	1194	78.00	5007	92.00	1247
55.00	345	65.95	177	78.95	4268	93.00	8026
56.00	1580	68.00	834	80.00	3580	93.95	688
57.00	4752	69.00	72656	81.00	5059	94.95	41
57.95	30	70.05	253	82.00	1039	95.90	350
59.00	161	71.00	110	83.00	1115	98.00	5420
59.95	19	73.00	172	84.90	658	99.00	5076

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.95	460	111.00	6906	123.00	2101	134.00	855
101.00	3100	112.00	752	123.90	1077	135.00	2422
101.90	211	113.00	365	124.95	1111	136.00	998
103.00	959	115.00	328	126.10	644	137.00	1393
103.90	1689	116.00	914	127.00	85875	138.00	241
105.00	1915	117.00	15948	128.00	6446	138.90	160
106.00	652	117.95	1360	128.95	32722	140.00	308
107.00	23354	119.00	354	129.95	2903	141.00	3644
108.00	3720	119.90	256	130.95	751	142.00	1190
109.00	785	120.90	258	132.00	327	142.90	1015
110.00	44750	121.95	1435	133.00	341	143.95	282

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.95	258	153.95	1049	164.00	123	175.00	3098
145.70	67	155.00	2278	164.90	1296	175.95	1010
145.95	544	156.00	3381	166.00	1085	177.00	1513
146.95	1698	157.00	699	166.90	7693	177.90	434
148.00	4390	157.90	661	168.00	4367	178.95	5854
148.90	967	158.95	522	169.00	755	180.00	4330
150.00	330	159.90	1176	169.90	225	181.00	2066
150.80	69	160.95	1892	170.90	246	182.00	430
151.05	469	161.90	466	171.90	702	182.90	88
151.90	356	163.05	178	172.95	898	183.95	412
152.90	1204	163.70	98	174.00	1682	185.00	3074

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
186.00	22790	197.00	1192	206.95	4605	221.00	8491
187.00	6417	197.90	176699	207.95	1161	221.70	1046
188.00	601	198.95	12012	208.95	551	222.95	2507
188.95	1138	200.00	879	210.15	807	224.00	23274
189.95	278	201.20	68	211.00	1679	225.00	5686
191.00	741	201.45	735	211.60	85	225.95	641
191.95	2025	201.70	80	215.00	488	227.00	9850
192.90	1869	203.00	1131	215.95	929	227.90	1387
193.95	390	204.00	5946	216.90	11084	229.00	1937
194.95	296	205.00	10519	218.00	1440	229.90	254
195.95	4879	206.00	39809	219.00	92	230.95	791

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
232.00	76	242.00	1197	252.80	116	264.95	2099
232.70	98	243.00	1302	253.00	256	265.85	198
233.00	98	244.00	18787	253.95	591	267.00	77
233.90	553	245.00	2586	255.00	92531	269.80	77

DFTPP3P.M Tue Aug 02 12:11:04 2016 Page: 0

234.95	699	246.00	3285	255.95	13420	270.95	160
235.90	456	246.90	588	256.95	1112	271.95	254
236.90	839	247.90	76	258.00	5394	272.95	2955
237.90	74	248.90	710	258.90	868	273.95	7533
238.90	303	249.90	74	259.90	70	275.00	40499
239.95	301	251.00	75	260.90	77	276.00	5559
240.95	548	252.05	194	263.80	222	277.00	3581

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.90	597	296.95	1690	316.90	68	335.00	562
281.90	85	300.90	180	320.90	461	340.90	550
283.00	444	301.95	159	321.95	202	341.90	72
283.90	229	303.00	1435	323.00	4020	345.90	965
284.95	614	303.95	387	323.95	780	346.85	191
288.80	85	307.90	71	326.95	863	352.00	1282
291.90	86	308.90	69	327.95	334	352.95	868
293.00	782	309.90	75	331.90	129	354.00	1151
293.95	184	313.90	626	332.05	197	354.95	303
295.00	256	314.90	1381	333.00	287	364.95	5432
296.00	12332	315.95	788	334.00	2641	365.90	906

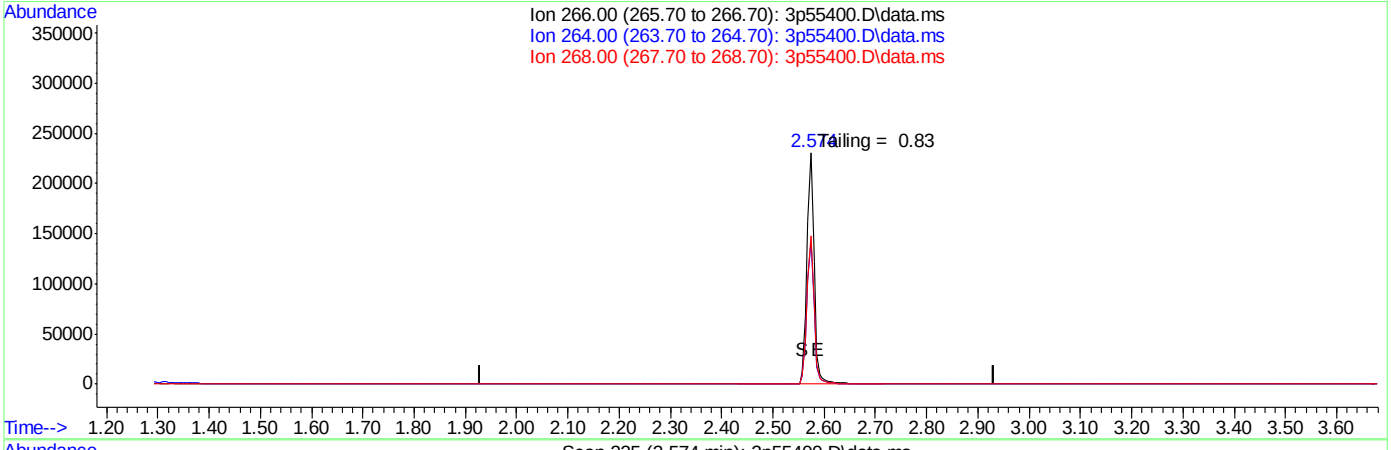
Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

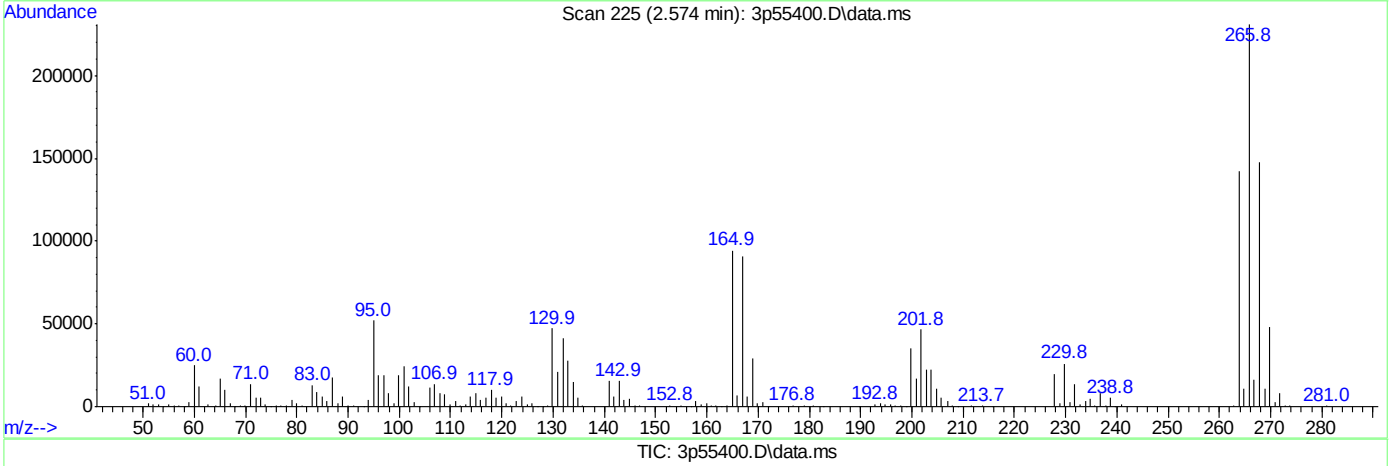
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
370.95	305	420.95	1026				
372.00	2201	421.95	962				
373.00	514	423.00	6807				
382.90	546	424.00	1773				
383.90	78	425.00	85				
389.90	240	441.00	20462				
390.90	89	442.00	137056				
401.00	89	443.00	25979				
401.95	810	444.00	2201				
403.00	1162	445.00	88				
403.95	569						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55400.D
Acq On : 2 Aug 2016 8:55 am
Operator : ashleyd
Sample : dftpp
Misc : op95837a,e3p2534
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 09:00:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





(1) Pentachlorophenol

2.431min (-2.431) 0.00

response 0

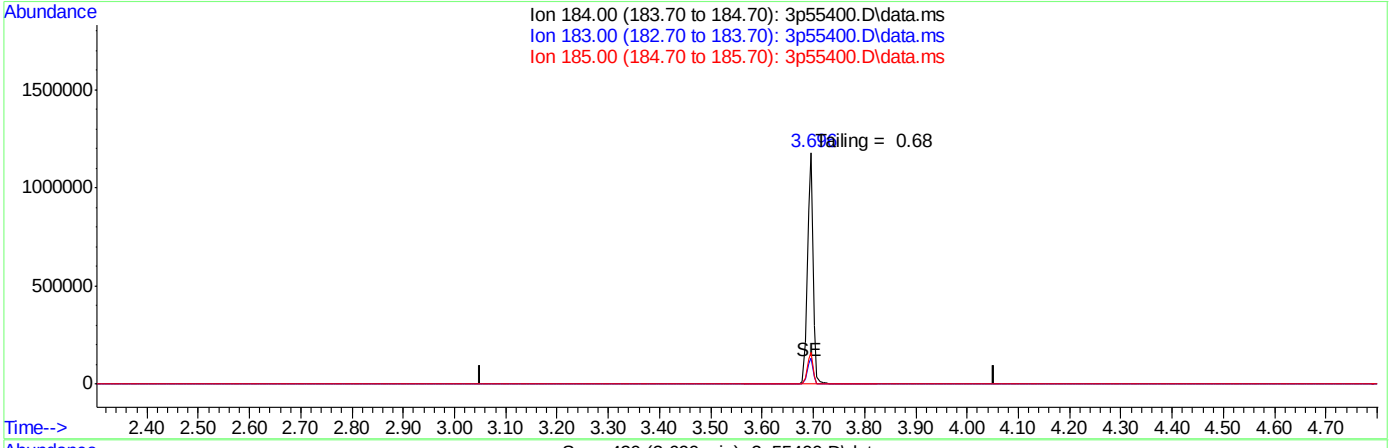
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

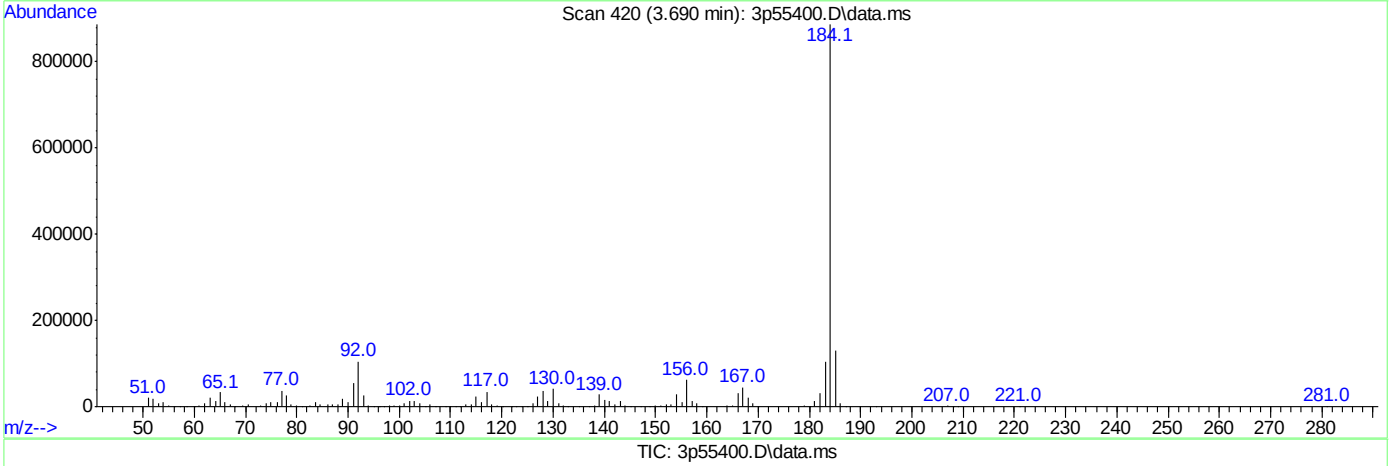
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55400.D
Acq On : 2 Aug 2016 8:55 am
Operator : ashleyd
Sample : dftpp
Misc : op95837a,e3p2534
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 09:00:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55400.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

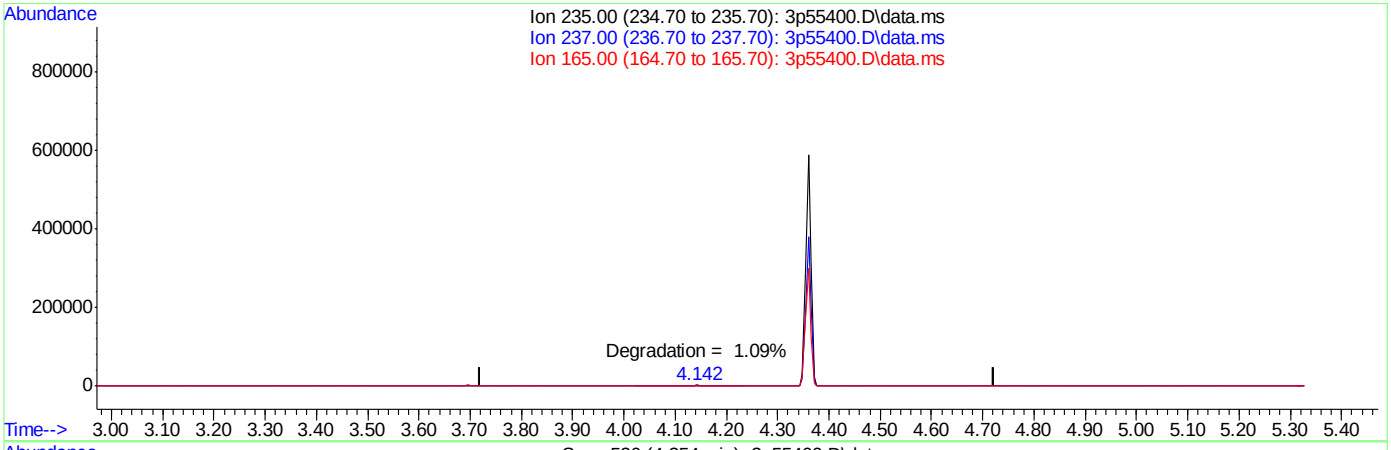
response 0

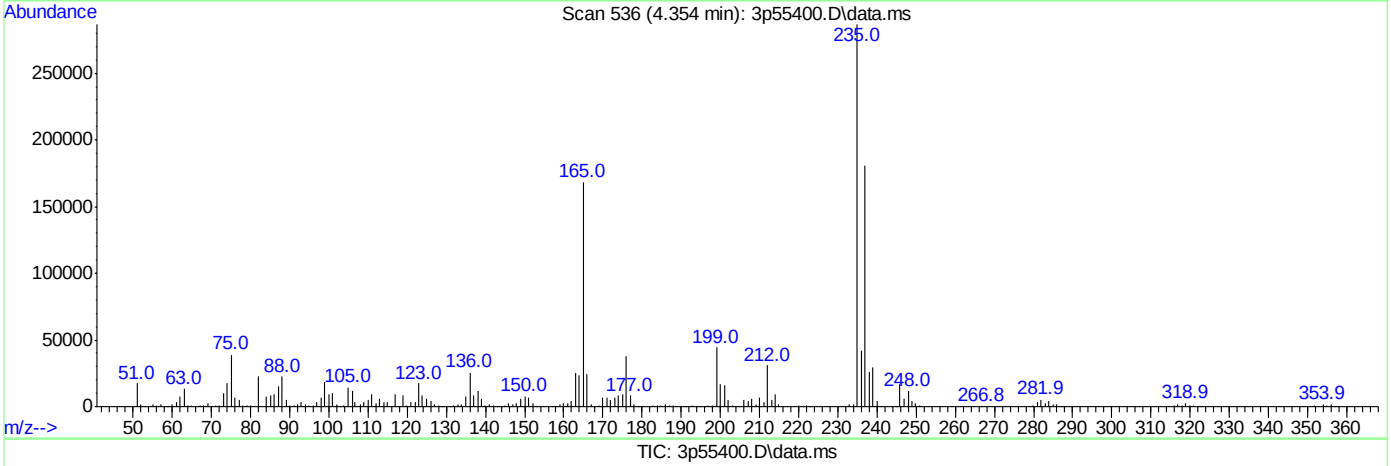
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55400.D
Acq On : 2 Aug 2016 8:55 am
Operator : ashleyd
Sample : dftpp
Misc : op95837a,e3p2534
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 09:00:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55400.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

response 0

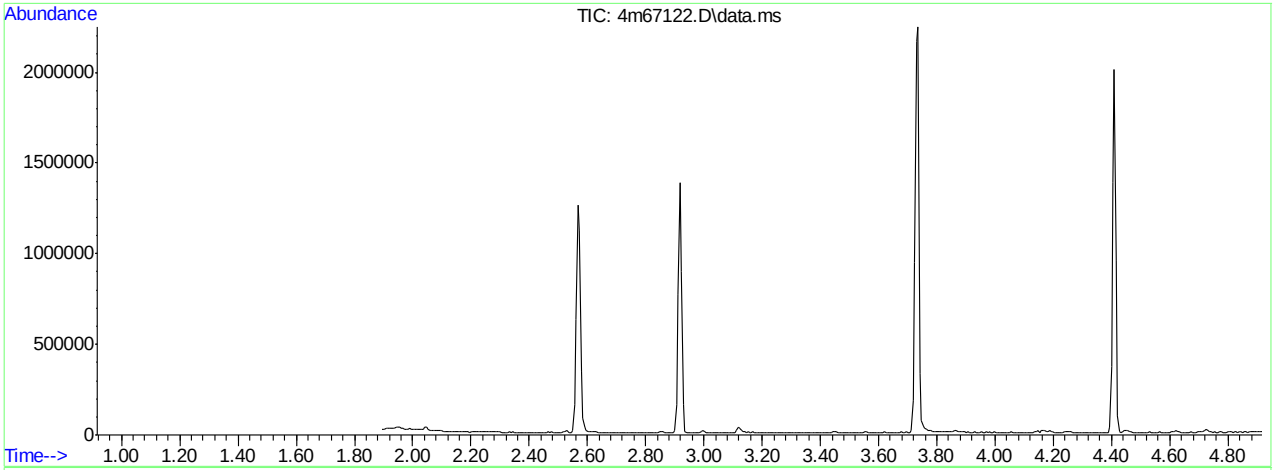
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

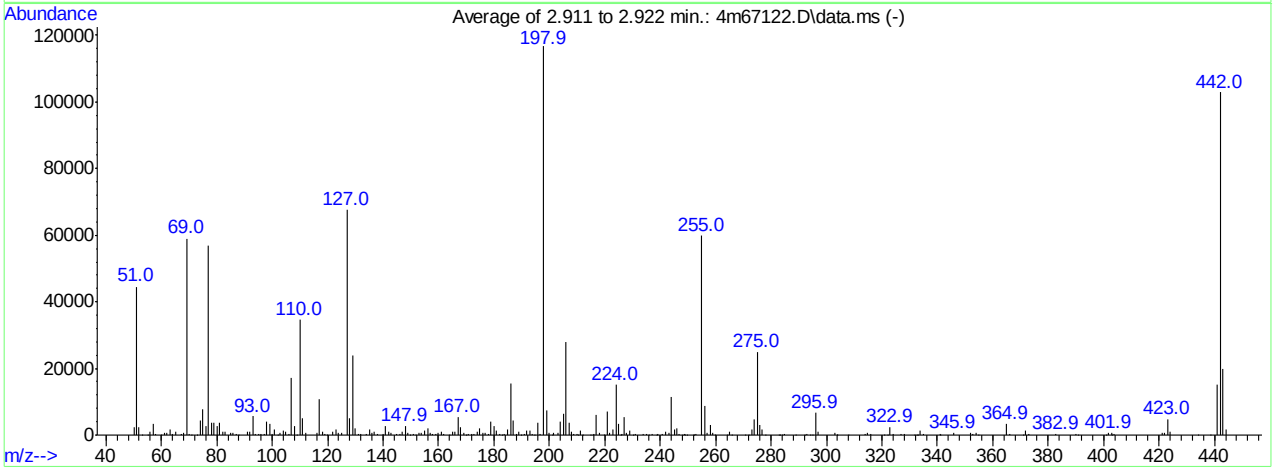
SGS ACCUTEST JC24622

DFTPP

Data File : C:\msdchem\1\DATA\E4M3032\4m67122.D Vial: 1
Acq On : 3 Aug 2016 3:58 pm Operator: juliusj
Sample : dftpp Inst : GCMS4M
Misc : op95453a,e4m3032 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um





AutoFind: Scans 179, 180, 181; Background Corrected with Scan 175

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.2	44576	PASS
68	69	0.00	2	1.4	836	PASS
69	198	0.00	100	50.6	59004	PASS
70	69	0.00	2	0.7	421	PASS
127	198	40	60	57.9	67603	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	116659	PASS
199	198	5	9	6.4	7492	PASS
275	198	10	30	21.5	25057	PASS
365	198	1	100	2.8	3210	PASS
441	443	0.01	100	76.2	15230	PASS
442	198	40	100	88.2	102915	PASS
443	442	17	23	19.4	19992	PASS

4m67122.D DFTPP4M.M Thu Aug 04 10:09:26 2016 MANAGER

Average of 2.911 to 2.922 min.: 4m67122.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	2458	63.00	1761	76.10	2726	87.90	36
51.00	44576	63.95	241	77.00	56896	90.95	1103
52.00	2438	65.00	897	78.00	3875	92.00	911
52.90	77	67.00	203	79.00	3611	93.00	5624
55.00	84	68.05	836	79.95	2547	94.00	366
55.95	1189	69.00	59004	81.00	3815	95.00	187
56.95	3361	69.95	421	81.95	1076	95.90	499
57.95	291	71.00	108	82.95	950	97.05	401
59.90	90	72.90	142	84.90	584	98.00	3894
61.00	579	74.00	4429	85.90	690	98.95	3228
61.95	674	75.00	7909	87.00	471	99.95	455

Average of 2.911 to 2.922 min.: 4m67122.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
100.95	1825	112.00	549	128.00	4979	140.95	2584
101.90	89	116.05	770	129.00	23851	141.90	910
102.90	668	117.00	10794	129.95	2115	142.90	617
103.95	1198	117.95	854	130.90	388	144.95	250
104.90	1078	119.00	210	131.85	207	145.90	462
106.00	316	119.90	170	133.90	498	147.00	1128
107.00	17084	121.95	1047	134.95	1617	147.95	2830
108.00	2539	122.95	1661	136.00	661	149.00	641
108.90	161	123.90	670	136.95	920	149.90	85
110.00	34565	124.95	592	138.00	288	151.10	425
111.00	4980	127.00	67603	139.95	211	151.90	111

Average of 2.911 to 2.922 min.: 4m67122.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.90	810	164.90	931	175.95	818	187.00	4413
153.85	647	165.95	975	176.90	851	188.00	449
155.00	1259	167.00	5413	177.95	381	188.90	906
156.00	2187	168.00	2472	178.90	4089	189.90	164
156.95	567	168.95	534	179.95	2571	191.00	502
157.90	275	170.00	67	180.95	1342	191.95	1351
158.90	471	170.90	263	181.95	251	192.95	1339
159.90	819	171.90	509	182.95	147	193.90	435
160.95	1177	172.90	419	183.85	190	194.80	168
161.95	433	174.00	1085	184.95	1795	196.00	3857
163.90	78	174.95	2170	186.00	15601	196.60	492

Average of 2.911 to 2.922 min.: 4m67122.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
197.90	116659	208.85	233	221.00	7208	231.00	400
198.95	7492	209.90	418	221.60	846	233.95	280
199.90	578	210.40	105	222.95	1668	234.90	413
201.00	113	211.00	1234	224.00	15133	235.90	90
201.40	770	211.90	67	224.95	3514	236.95	422
202.90	707	214.85	148	225.80	81	238.80	72
203.95	4094	215.80	155	226.05	415	238.95	214
205.00	6369	216.05	395	226.95	5460	240.90	421
206.00	27928	216.90	6234	227.90	826	241.90	864
207.00	3710	218.00	736	228.90	1215	242.95	843
207.95	855	219.60	77	230.10	94	244.00	11341

Average of 2.911 to 2.922 min.: 4m67122.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
245.00	1581	256.00	8686	273.95	4631	292.95	406
245.95	1979	256.95	639	275.00	25057	293.95	147
246.90	506	257.95	3187	276.00	3164	295.10	107
247.90	72	258.85	660	276.85	1799	295.95	6706

M4M3032SIM.M Thu Aug 04 09:15:39 2016 MANAGER Page: 0

248.80	213	259.90	70	277.90	164	296.90	969
249.00	162	264.00	70	282.80	150	302.95	828
249.80	72	264.85	955	283.00	77	303.80	78
252.00	111	265.85	174	284.00	92	303.95	176
252.20	84	270.80	113	284.95	357	308.00	87
252.85	365	271.90	139	288.80	78	313.95	342
255.00	59864	272.95	1780	291.90	85	314.90	839

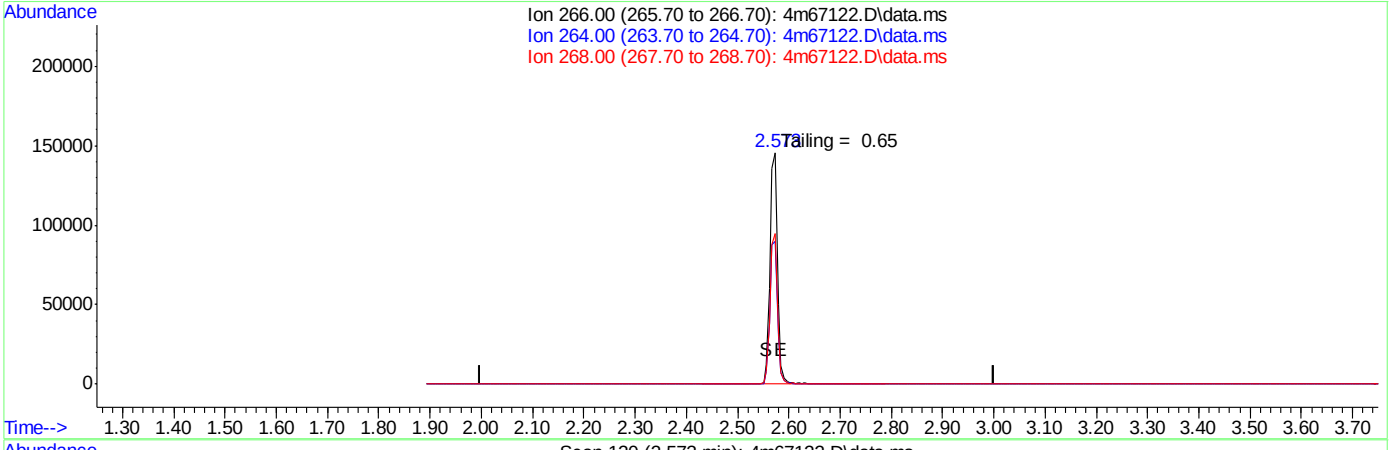
Average of 2.911 to 2.922 min.: 4m67122.D\data.ms
dftpp
Modified:subtracted

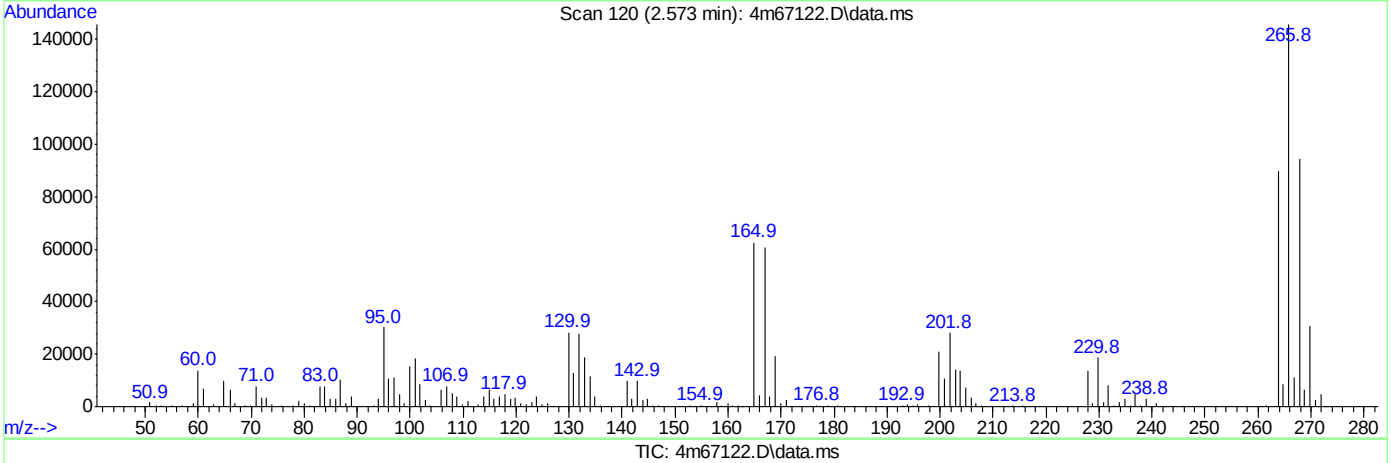
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
316.00	442	334.85	318	371.95	1396	421.90	611
321.00	110	340.90	80	373.00	366	423.00	4754
322.10	84	341.05	213	382.90	333	423.95	856
322.95	2507	345.85	623	389.95	270	434.20	77
323.95	471	352.00	793	390.90	78	438.40	68
326.85	400	352.90	509	400.90	68	441.00	15230
328.05	210	353.95	765	401.90	591	442.00	102915
331.90	83	354.80	76	402.80	131	443.00	19992
332.60	80	364.90	3210	403.00	559	444.00	1753
332.95	155	365.95	455	403.80	241		
333.95	1377	370.90	102	420.95	639		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67122.D
Acq On : 3 Aug 2016 3:58 pm
Operator : juliusj
Sample : dftpp
Misc : op95453a,e4m3032
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 03 16:03:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m67122.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

response 0

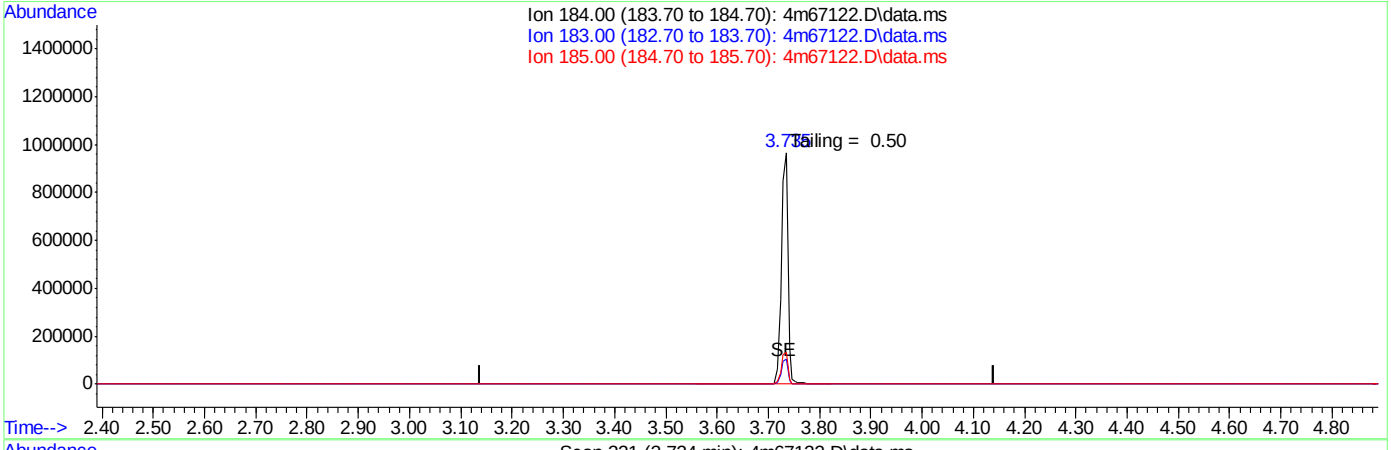
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

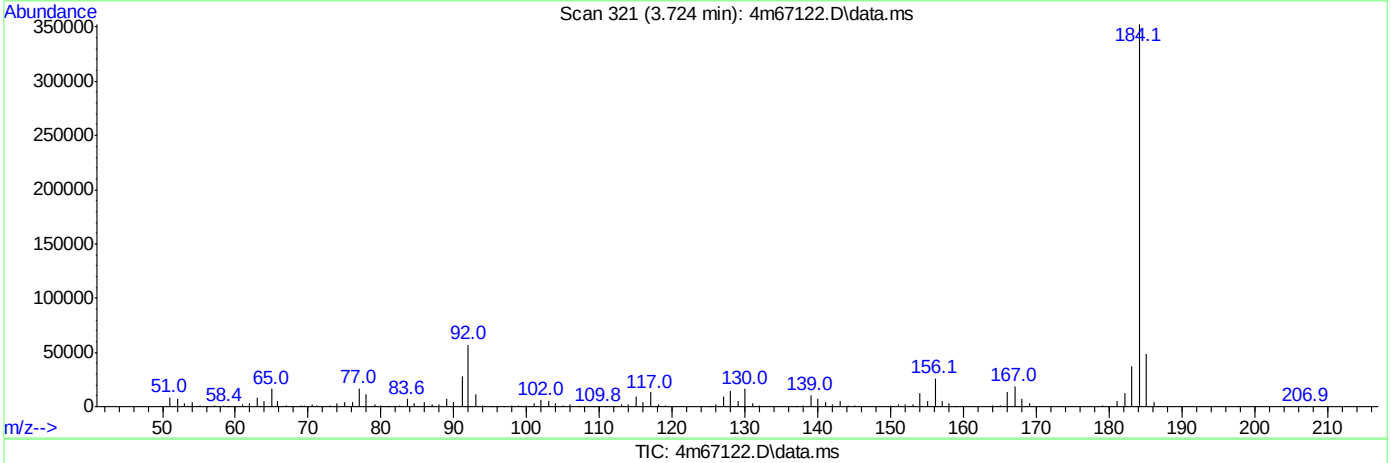
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67122.D
Acq On : 3 Aug 2016 3:58 pm
Operator : juliusj
Sample : dftpp
Misc : op95453a,e4m3032
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 03 16:03:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





(2) benzidine (t)

3.640min (-3.640) 0.00ppb

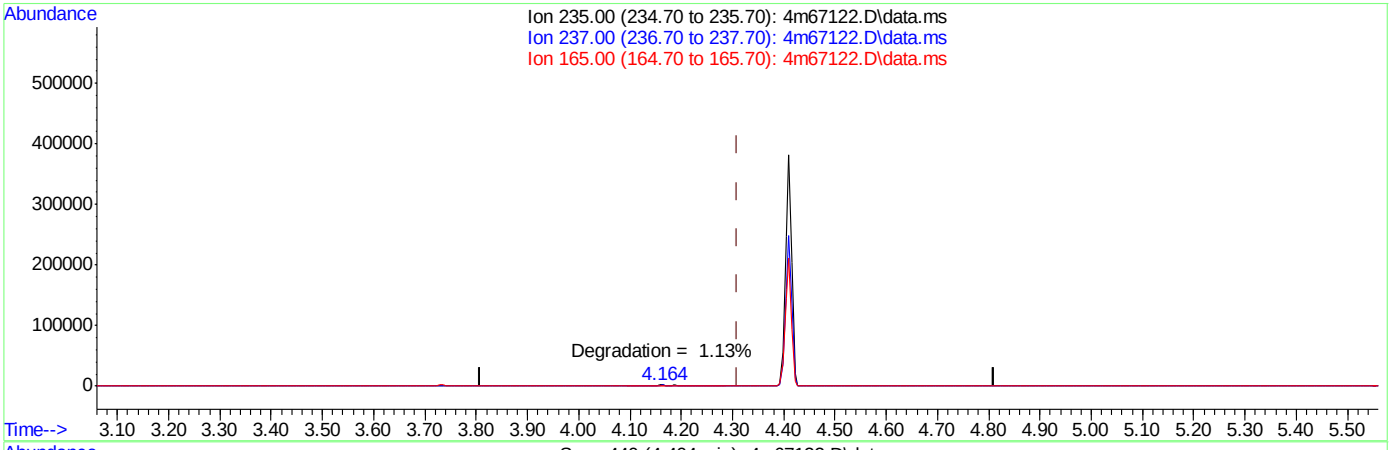
response 0

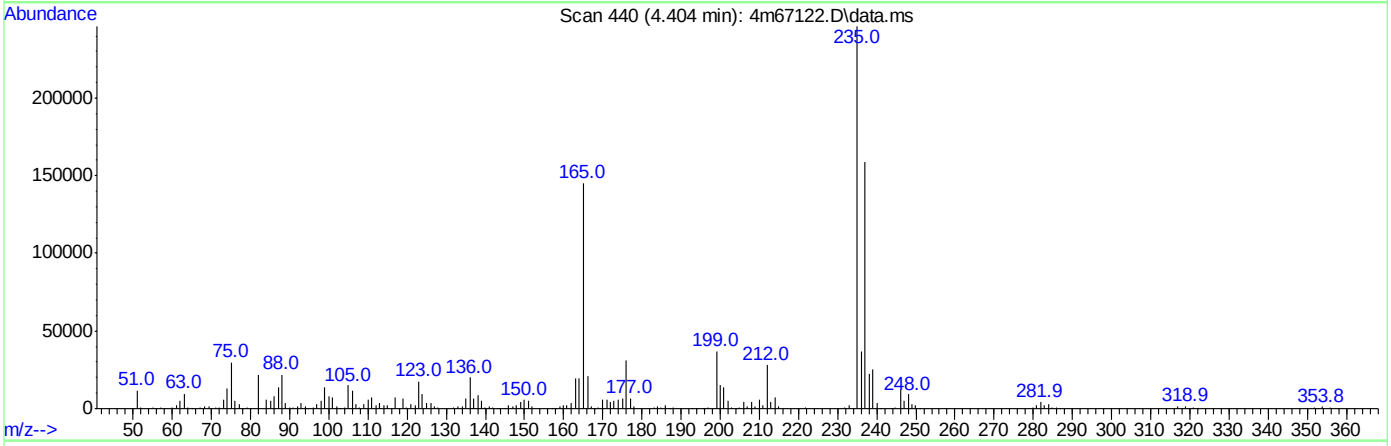
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67122.D
Acq On : 3 Aug 2016 3:58 pm
Operator : juliusj
Sample : dftpp
Misc : op95453a,e4m3032
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 03 16:03:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m67122.D\data.ms

(3) ddt (t)

4.412min (+0.102) 113.58ppb

response 3143507

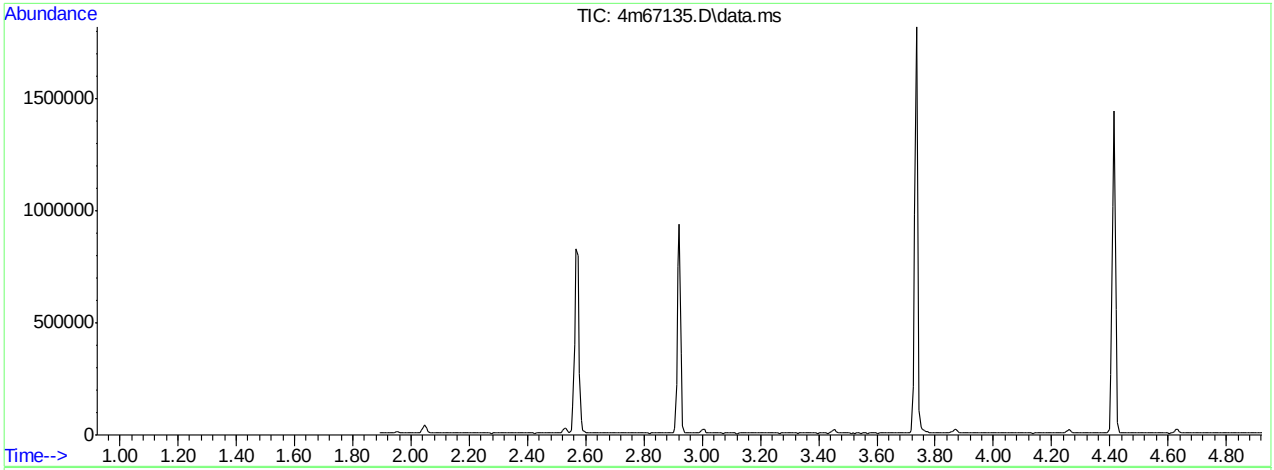
Ion	Exp%	Act%
235.00	100	100
237.00	63.70	65.08
165.00	48.70	54.79
0.00	0.00	0.00

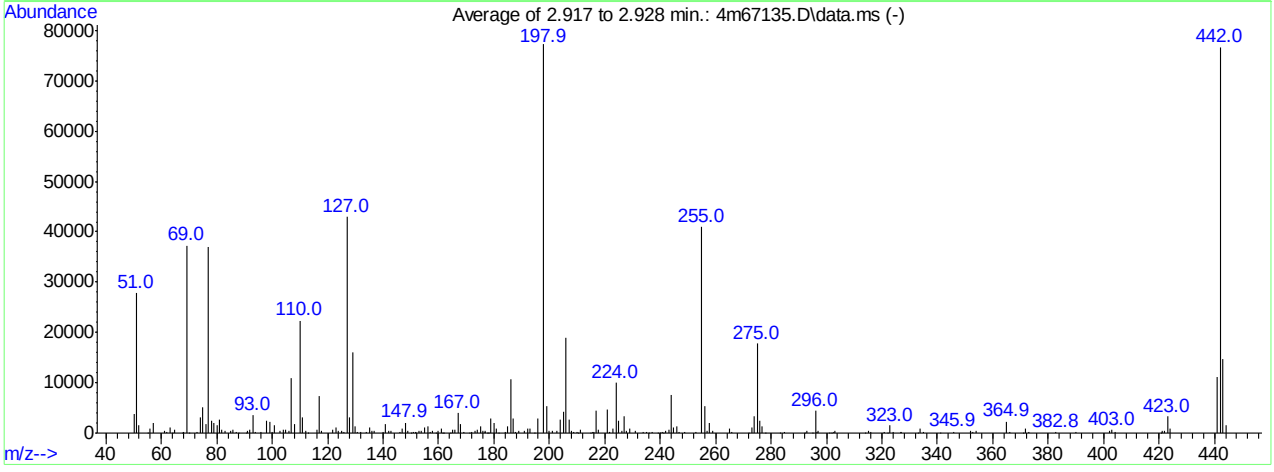
SGS ACCUTEST JC24622

DFTPP

Data File : C:\msdchem\1\DATA\E4M3033\4m67135.D Vial: 1
Acq On : 4 Aug 2016 10:10 am Operator: juliusj
Sample : dftpp Inst : GCMS4M
Misc : op95453a,e4m3033 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um





AutoFind: Scans 180, 181, 182; Background Corrected with Scan 175

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	27848	PASS
68	69	0.00	2	0.7	278	PASS
69	198	0.00	100	48.2	37220	PASS
70	69	0.00	2	0.3	103	PASS
127	198	40	60	55.6	42963	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	77235	PASS
199	198	5	9	7.1	5461	PASS
275	198	10	30	23.1	17819	PASS
365	198	1	100	3.0	2312	PASS
441	443	0.01	100	75.5	11185	PASS
442	198	40	100	99.3	76672	PASS
443	442	17	23	19.3	14810	PASS

4m67135.D DFTPP4M.M Thu Aug 04 11:20:09 2016 MANAGER

Average of 2.917 to 2.928 min.: 4m67135.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	3892	67.70	69	80.00	1592	93.00	3582
50.95	27848	68.00	278	80.95	2695	93.90	205
52.00	1460	69.00	37220	81.90	567	96.05	279
54.90	117	69.90	103	82.90	491	98.00	2475
55.95	930	73.00	286	84.90	348	98.95	2141
56.95	2066	74.00	3077	85.90	684	99.90	148
61.00	357	75.00	5222	86.90	230	100.90	1535
62.00	330	76.05	1711	87.90	41	102.90	520
63.00	1092	77.00	36882	90.70	71	103.95	683
64.00	80	78.00	2484	91.00	490	104.85	694
64.95	565	79.00	2000	92.00	613	106.10	467

Average of 2.917 to 2.928 min.: 4m67135.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
107.00	10983	123.95	403	135.00	1033	150.00	95
108.00	1696	124.90	350	135.90	452	151.00	126
110.00	22393	125.10	169	136.95	561	151.60	119
111.00	3151	125.80	200	139.90	228	151.90	137
112.00	358	127.00	42963	141.00	1739	153.00	440
112.90	82	128.00	3046	141.85	474	153.90	379
116.05	597	129.00	16057	142.95	346	155.00	1052
117.00	7459	130.00	1290	145.95	264	156.00	1435
117.90	528	130.85	214	146.90	796	157.00	330
121.85	718	131.95	234	147.95	2009	157.90	403
122.95	1119	133.95	249	149.00	389	159.20	90

Average of 2.917 to 2.928 min.: 4m67135.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.95	561	171.90	237	180.95	994	194.70	83
160.90	804	173.00	496	181.80	93	196.00	2939
161.60	84	173.90	611	183.95	186	197.90	77235
162.00	101	175.05	1412	185.05	1272	198.90	5461
164.20	70	175.95	467	186.00	10815	200.00	409
164.90	629	176.80	227	187.00	2909	201.25	545
165.95	576	177.00	463	187.90	300	202.85	405
167.00	3925	177.80	74	189.00	459	203.95	2617
168.00	1757	178.10	95	190.95	345	205.00	4272
168.95	340	178.95	2927	192.00	821	206.00	18992
171.00	84	180.00	2102	193.00	900	207.00	2665

Average of 2.917 to 2.928 min.: 4m67135.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.90	512	221.60	341	234.95	278	245.95	1408
208.90	163	221.90	167	235.90	106	246.95	203
209.90	200	222.90	986	236.95	269	248.95	335
210.40	75	224.00	9935	239.10	77	253.05	242
211.00	733	225.00	2469	239.90	73	255.00	40920
215.00	85	226.00	386	240.80	156	256.00	5259
215.80	207	227.00	3427	241.00	79	256.90	431
216.00	223	227.95	483	242.05	542	257.90	2035
216.95	4414	228.95	875	242.95	774	258.90	389
217.85	674	230.90	377	244.00	7664	264.95	918
221.00	4786	233.95	263	244.95	1125	265.95	142

Average of 2.917 to 2.928 min.: 4m67135.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
271.90	103	295.00	69	320.90	227	351.80	128
273.00	1221	296.00	4356	322.00	73	351.95	365
274.00	3324	296.70	169	323.00	1500	352.85	225
275.00	17819	296.95	401	324.00	318	353.95	464

M4M3032SIM.M Thu Aug 04 10:10:36 2016 MANAGER Page: 0

276.00	2527	300.90	72	326.70	147	364.95	2312
276.90	1382	302.00	71	327.00	159	366.00	333
278.00	99	302.80	122	332.90	85	371.00	70
283.00	72	303.00	364	333.95	925	371.95	1005
285.00	198	313.90	105	334.95	213	372.85	138
291.90	84	314.95	501	341.00	110	382.80	156
292.90	413	315.90	122	345.90	339	389.95	156

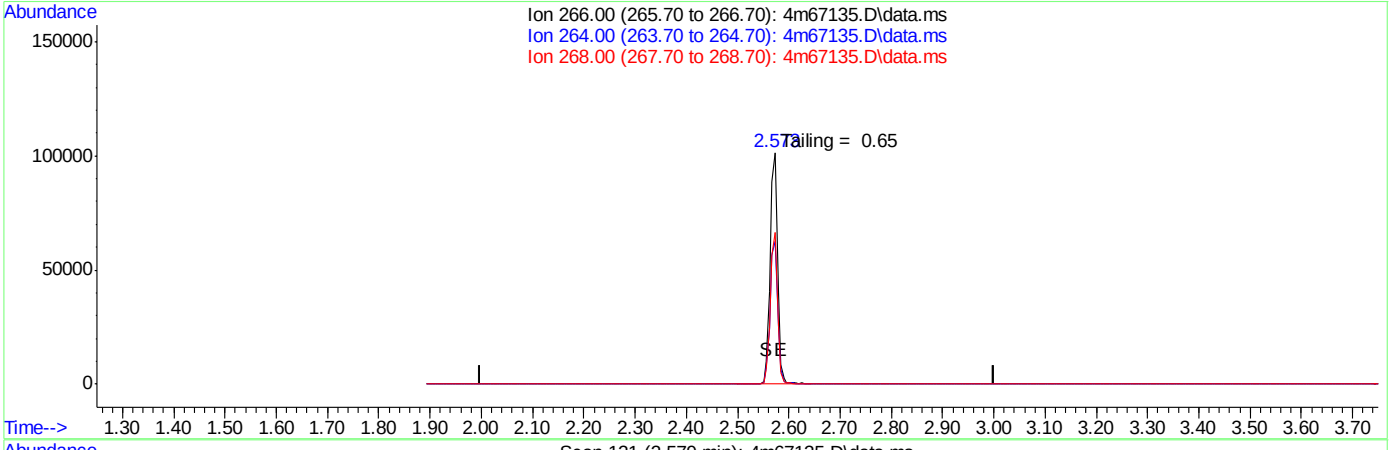
Average of 2.917 to 2.928 min.: 4m67135.D\data.ms
dftpp
Modified:subtracted

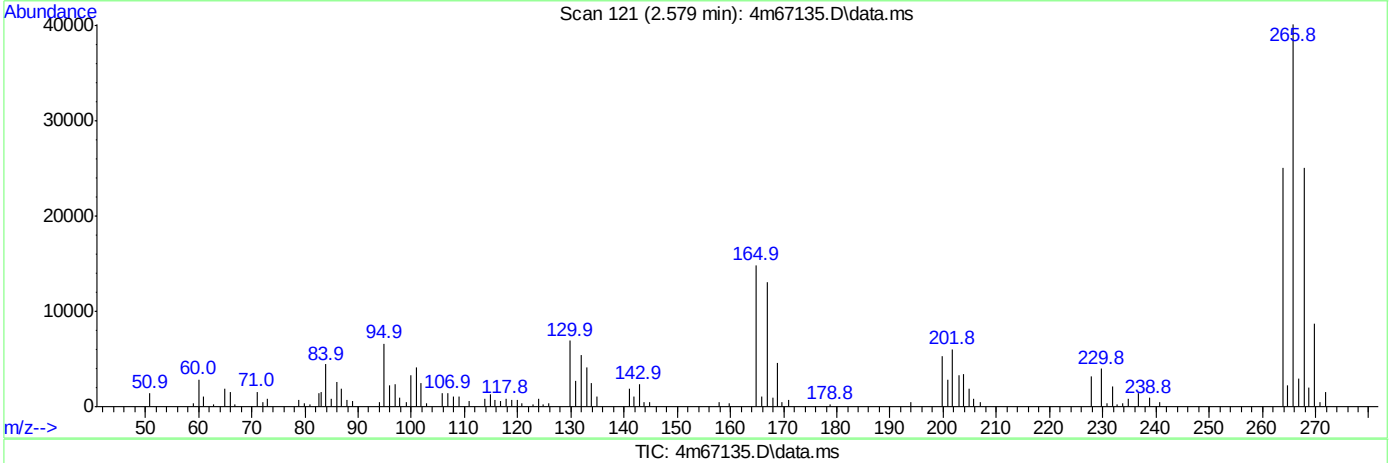
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
402.00	485	444.00	1529				
403.00	607						
403.95	150						
420.70	91						
420.95	451						
421.90	525						
423.00	3326						
423.95	932						
441.00	11185						
442.00	76672						
443.00	14810						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3033\
Data File : 4m67135.D
Acq On : 4 Aug 2016 10:10 am
Operator : juliusj
Sample : dftpp
Misc : op95453a,e4m3033
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:16:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m67135.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

response 0

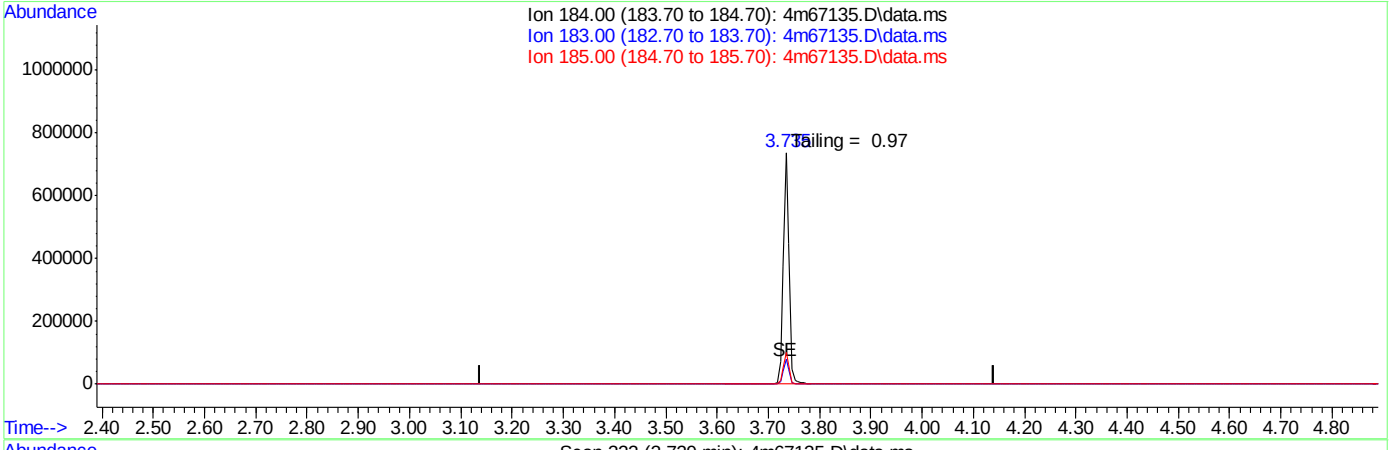
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

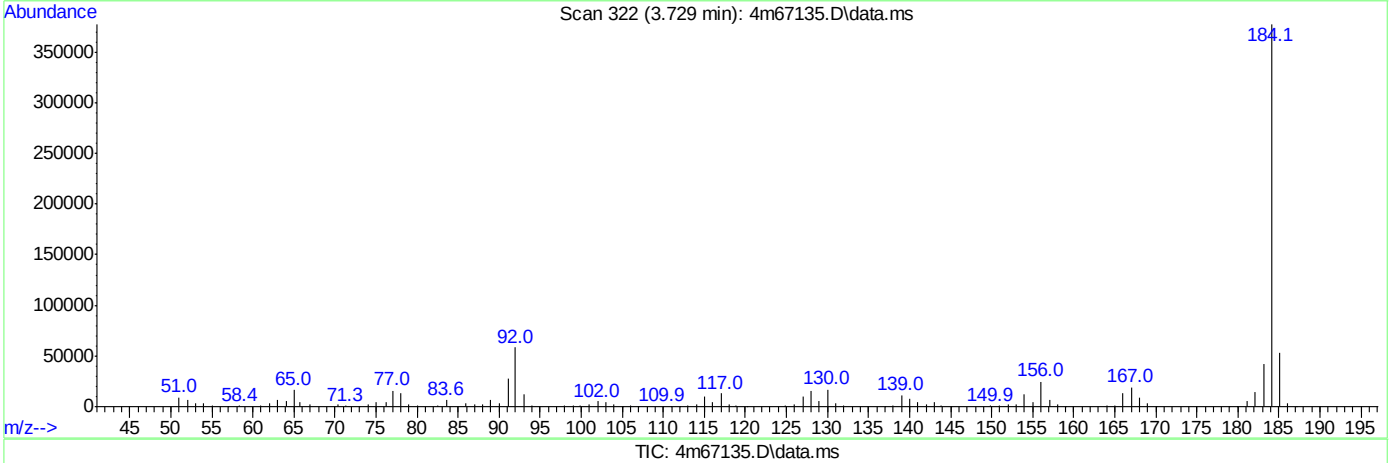
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3033\
Data File : 4m67135.D
Acq On : 4 Aug 2016 10:10 am
Operator : juliusj
Sample : dftpp
Misc : op95453a,e4m3033
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:16:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m67135.D\data.ms

(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

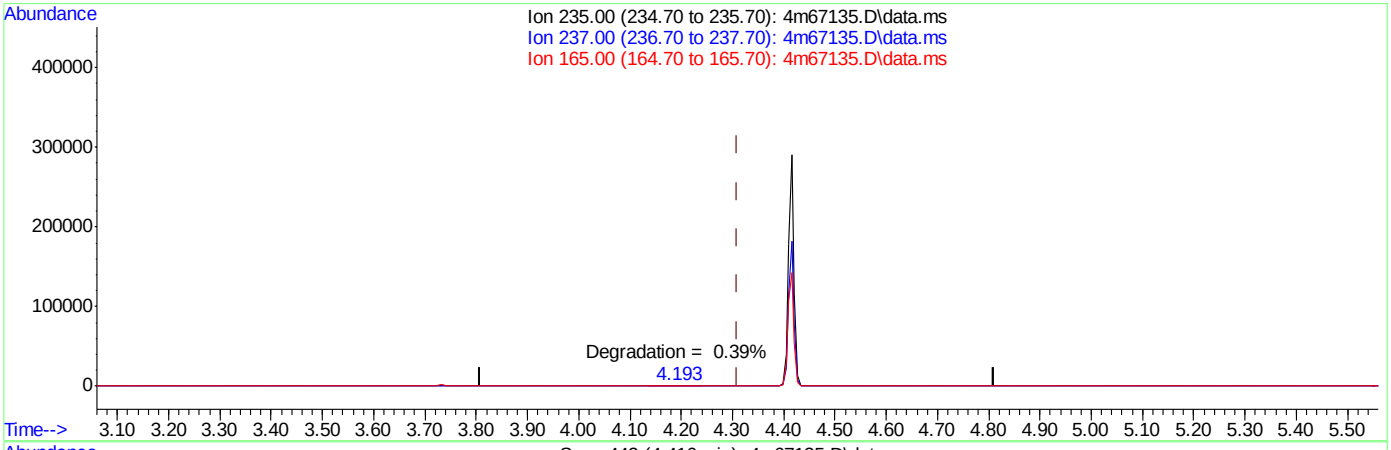
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

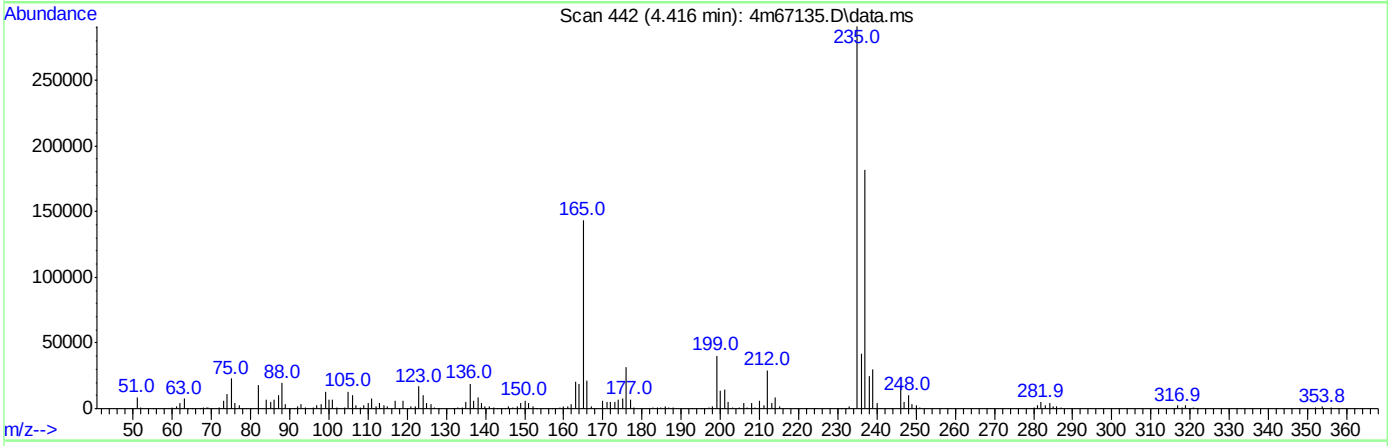
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3033\
Data File : 4m67135.D
Acq On : 4 Aug 2016 10:10 am
Operator : juliusj
Sample : dftpp
Misc : op95453a,e4m3033
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:16:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m67135.D\data.ms

(3) ddt (t)

4.418min (+0.108) 79.63ppb

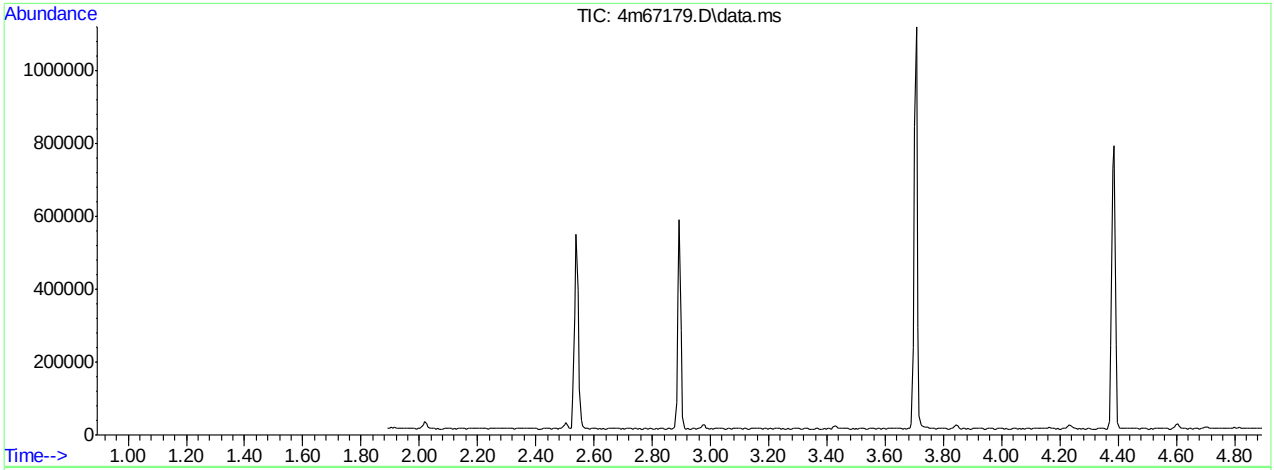
response 2203725

Ion	Exp%	Act%
235.00	100	100
237.00	63.70	63.42
165.00	48.70	52.88
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E4M3036\4m67179.D Vial: 1
Acq On : 5 Aug 2016 9:45 am Operator: shaniceg
Sample : dftpp Inst : GCMS4M
Misc : op95453a,e4m3036 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um



AutoFind: Scans 175, 176, 177; Background Corrected with Scan 171

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.0	17055	PASS
68	69	0.00	2	0.8	188	PASS
69	198	0.00	100	49.6	23494	PASS
70	69	0.00	2	0.3	82	PASS
127	198	40	60	56.5	26790	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	47413	PASS
199	198	5	9	6.6	3126	PASS
275	198	10	30	20.1	9552	PASS
365	198	1	100	2.9	1377	PASS
441	443	0.01	100	79.0	6670	PASS
442	198	40	100	89.2	42277	PASS
443	442	17	23	20.0	8448	PASS

4m67179.D DFTPP4M.M Fri Aug 05 11:41:53 2016 MANAGER

Average of 2.888 to 2.900 min.: 4m67179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	17055	69.00	23494	81.95	445	95.95	146
51.95	936	70.00	82	82.90	686	98.00	1486
55.00	163	73.05	213	84.95	204	98.95	1408
55.90	680	74.00	1613	85.90	362	99.90	67
56.95	1434	75.00	3081	86.80	101	100.90	767
60.95	278	76.10	1111	87.00	216	102.95	296
61.95	252	77.00	22375	87.85	77	103.90	521
62.95	669	78.05	1707	90.95	417	104.90	539
64.80	105	78.90	1241	91.95	398	107.00	7271
65.10	320	79.95	987	93.00	2126	107.95	1169
68.00	188	80.95	1431	93.85	165	108.95	213

Average of 2.888 to 2.900 min.: 4m67179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
110.00	13537	124.90	368	137.00	502	152.80	286
110.95	2064	126.00	104	140.90	952	153.95	302
111.90	234	127.00	26790	141.90	309	154.65	169
113.10	96	127.95	1904	142.60	131	155.05	446
115.95	254	129.00	10259	142.85	212	156.00	1091
117.00	4316	129.95	854	145.90	90	157.10	257
117.95	261	130.80	67	146.90	394	157.90	146
120.10	92	132.00	102	147.10	75	159.80	103
121.90	425	133.80	213	147.85	942	160.00	196
122.95	583	134.95	685	148.80	102	160.90	647
123.85	345	135.85	230	148.95	213	161.90	105

Average of 2.888 to 2.900 min.: 4m67179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.95	333	178.20	101	192.90	558	202.80	339
165.85	227	178.90	1672	193.90	80	204.00	1783
166.95	2167	179.90	1204	194.90	92	205.00	2604
168.00	1165	180.95	607	195.90	2127	206.00	11421
168.95	200	184.95	691	196.60	182	207.00	1598
171.85	140	186.00	6724	197.90	47413	207.85	311
172.90	208	187.00	1946	198.90	3126	210.50	114
174.00	469	187.90	107	199.85	194	210.75	367
174.95	865	188.85	204	201.10	95	211.10	86
175.95	410	190.90	296	201.40	201	215.90	98
177.05	275	191.95	545	201.90	69	216.90	2463

Average of 2.888 to 2.900 min.: 4m67179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
217.95	351	235.00	70	255.00	24221	276.90	829
221.00	3320	236.90	174	255.95	3552	284.70	78
223.00	573	240.90	111	256.95	328	292.90	180
224.00	6006	241.80	124	257.90	1356	295.95	2675
224.95	1661	241.95	259	258.90	245	296.95	452
225.70	69	242.95	504	264.85	551	303.00	280
225.90	70	244.00	4911	271.90	68	313.90	71
226.90	2261	244.95	733	272.95	802	314.90	107
227.90	255	246.00	910	273.95	2110	316.00	135
228.95	513	246.85	167	274.95	9552	322.90	1048
230.80	77	253.80	82	275.95	1404	323.90	173

Average of 2.888 to 2.900 min.: 4m67179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
327.80	97	372.90	82	443.00	8448		
333.90	615	382.90	102	443.90	622		
335.00	194	401.70	124				
340.90	90	401.90	113				

M4M3032SIM.M Fri Aug 05 11:41:30 2016 MANAGER Page: 0

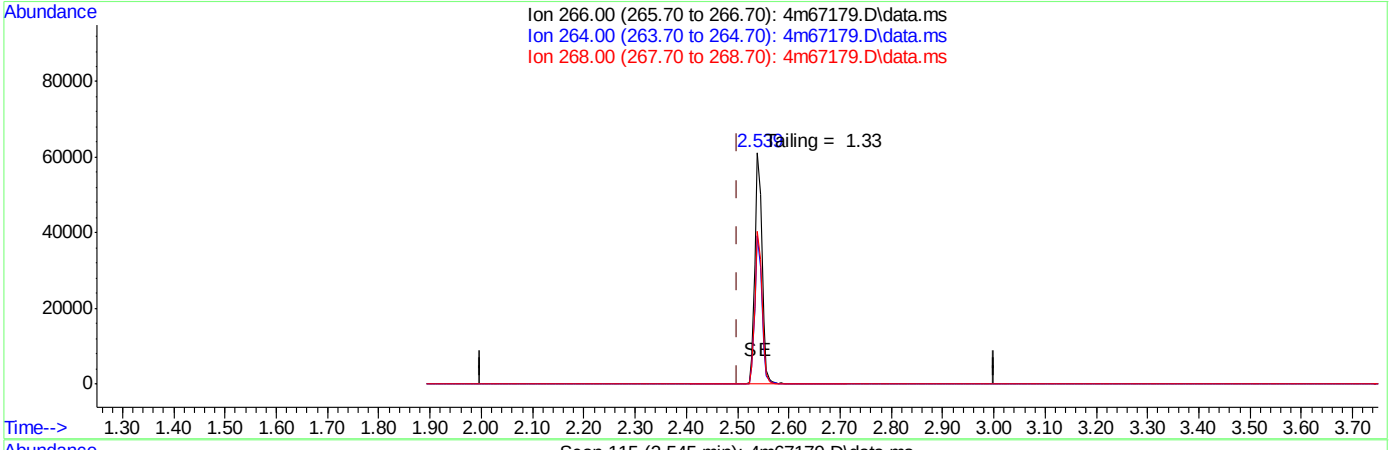
345.80	131	402.95	299
351.90	241	420.90	412
352.95	205	422.00	264
353.95	301	422.95	2165
364.90	1377	423.85	486
366.00	99	441.00	6670
371.95	467	442.00	42277

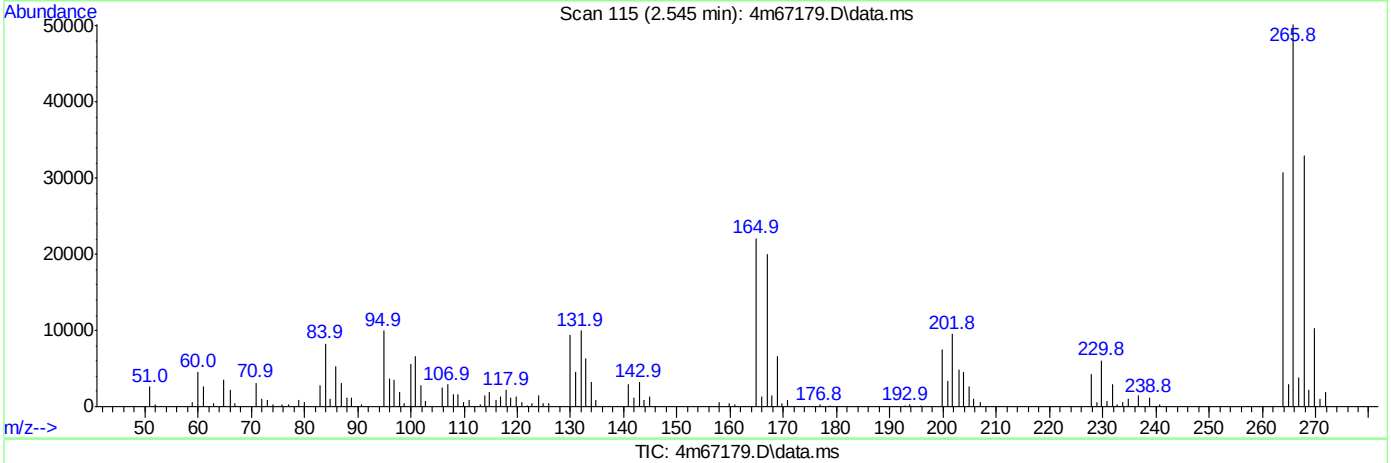
M4M3032SIM.M Fri Aug 05 11:41:30 2016 MANAGER Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3036\
Data File : 4m67179.D
Acq On : 5 Aug 2016 9:45 am
Operator : shaniceg
Sample : dftpp
Misc : op95453a,e4m3036
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:50:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m67179.D\data.ms

(1) pentachlorophenol (t)

2.543min (+0.043) 36.25ppb

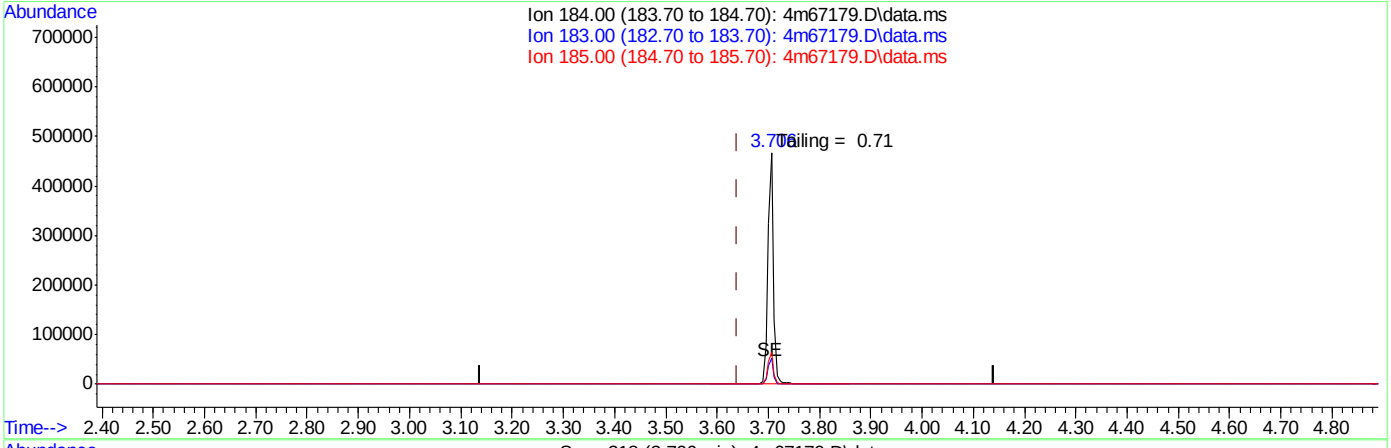
response 598114

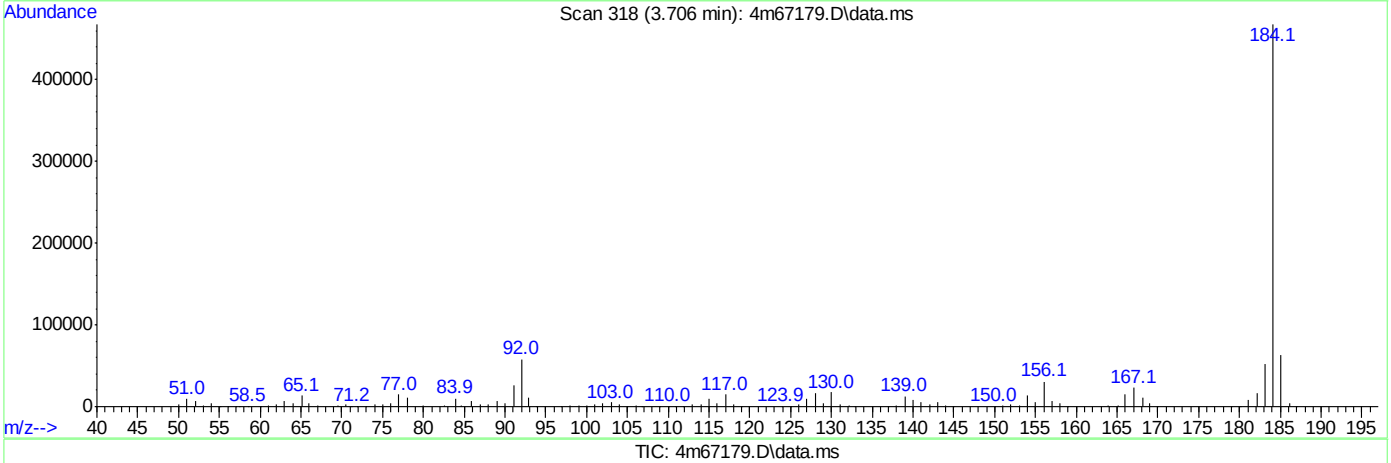
Ion	Exp%	Act%
266.00	100	100
264.00	58.00	62.09
268.00	62.00	65.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3036\
Data File : 4m67179.D
Acq On : 5 Aug 2016 9:45 am
Operator : shaniceg
Sample : dftpp
Misc : op95453a,e4m3036
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:50:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





(2) benzidine (t)

3.707min (+0.067) 59.51ppb

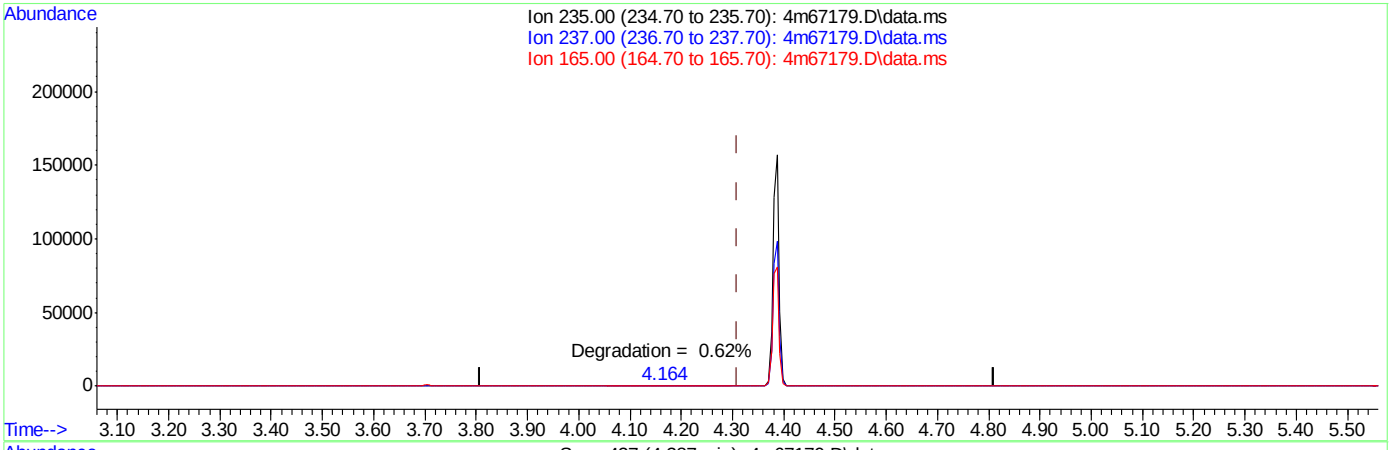
response 3551785

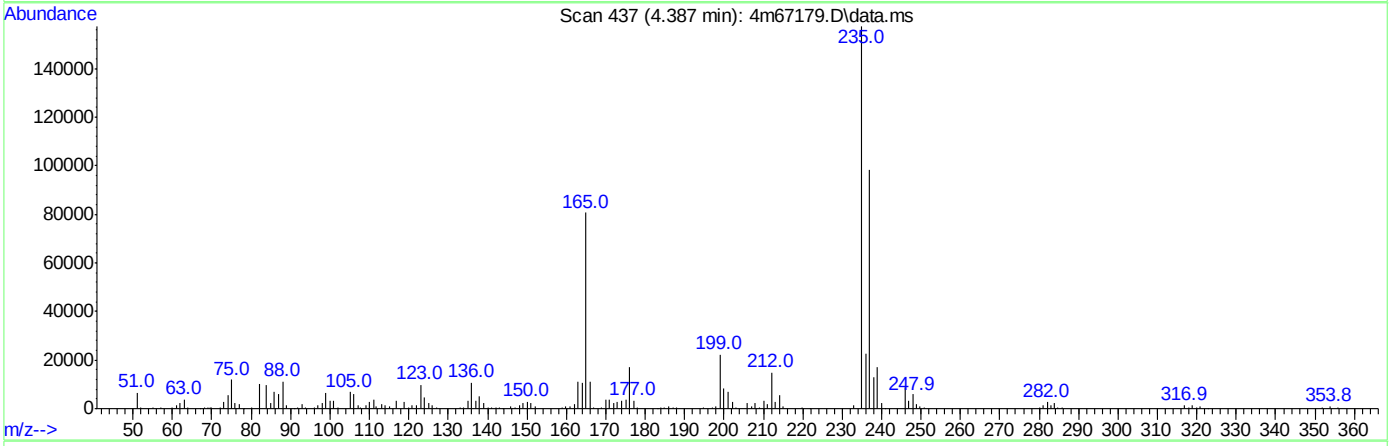
Ion	Exp%	Act%
184.00	100	100
183.00	10.60	11.22
185.00	13.40	14.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3036\
Data File : 4m67179.D
Acq On : 5 Aug 2016 9:45 am
Operator : shaniceg
Sample : dftpp
Misc : op95453a,e4m3036
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:50:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m67179.D\data.ms

(3) ddt (t)

4.388min (+0.078) 47.31ppb

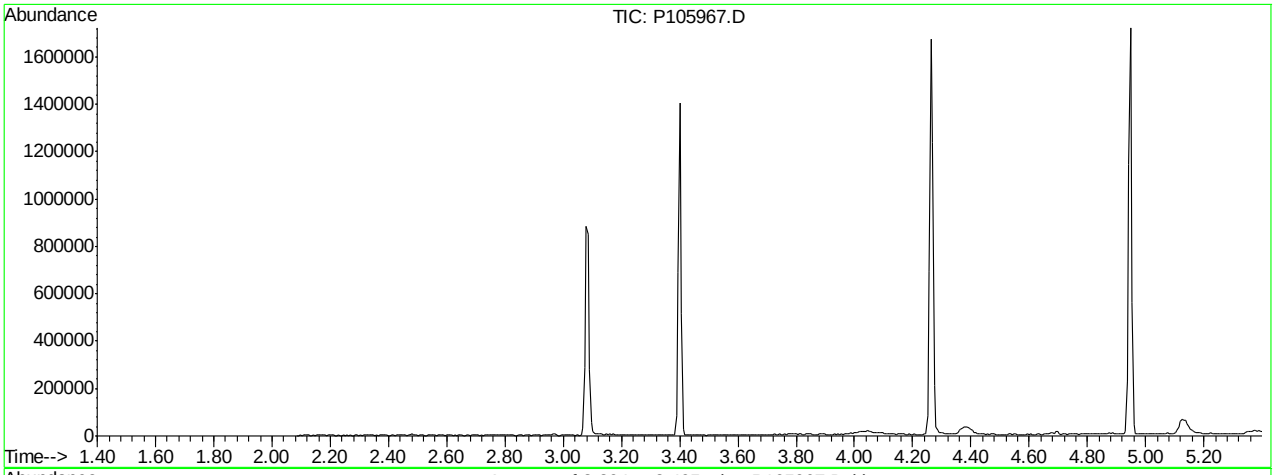
response 1309302

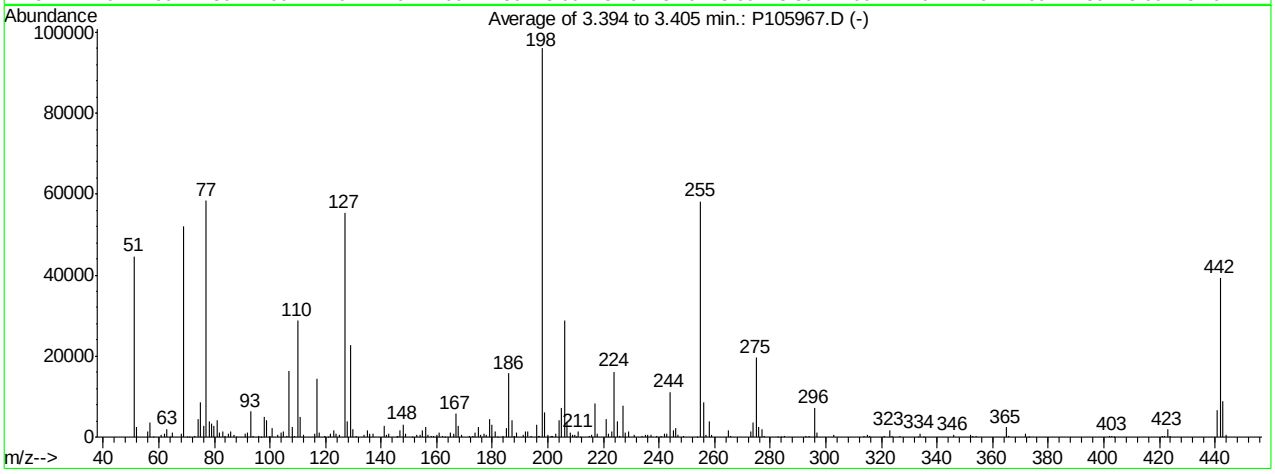
Ion	Exp%	Act%
235.00	100	100
237.00	63.70	64.23
165.00	48.70	54.38
0.00	0.00	0.00

SGS ACCUTEST JC24622

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4681\P105967.D Vial: 1
Acq On : 11 Jul 2016 8:37 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4681 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 230, 231, 232; Background Corrected with Scan 226

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.6	44729	PASS
68	69	0.00	2	1.9	971	PASS
69	198	0.00	100	54.3	52157	PASS
70	69	0.00	2	0.2	124	PASS
127	198	40	60	57.7	55354	PASS
197	198	0.00	1	0.2	195	PASS
198	198	100	100	100.0	95994	PASS
199	198	5	9	6.5	6194	PASS
275	198	10	30	20.5	19648	PASS
365	198	1	100	2.5	2397	PASS
441	443	0.10	100	73.8	6575	PASS
442	198	40	100	40.8	39203	PASS
443	442	17	23	22.7	8912	PASS

P105967.D DFTPPP.M Mon Jul 11 14:56:24 2016

Average of 3.394 to 3.405 min.: P105967.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.95	44729	68.90	52157	80.90	4068	93.90	318
52.00	2474	70.00	124	81.90	1220	95.95	322
55.90	1467	70.90	144	83.00	1285	96.90	140
56.90	3625	72.95	276	83.85	292	97.90	4911
57.90	120	73.95	4557	84.90	931	98.90	4289
60.95	535	74.90	8469	85.90	1283	99.85	399
61.95	802	76.00	2675	86.95	600	100.90	2114
63.00	1983	77.00	58400	87.80	119	102.90	642
64.10	136	78.00	3981	90.90	844	103.90	1025
65.00	1067	78.90	3310	91.95	1195	104.90	1339
67.90	971	79.90	2871	92.90	6332	106.00	317

Average of 3.394 to 3.405 min.: P105967.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
106.90	16478	121.90	919	135.90	712	152.85	635
107.90	2537	122.90	1536	136.95	967	153.85	591
109.00	179	123.85	866	140.90	2641	154.90	1717
109.90	28745	124.90	622	141.90	584	155.95	2438
110.90	4883	126.90	55354	142.90	832	157.00	556
111.85	512	127.90	3860	145.60	118	157.90	422
115.95	834	128.90	22600	145.90	279	158.85	416
116.90	14505	129.90	2034	146.90	1605	159.85	561
117.85	1002	131.00	255	147.90	3183	160.90	1127
119.90	167	133.90	480	148.80	734	161.90	271
120.90	141	134.90	1667	151.00	144	162.90	117

Average of 3.394 to 3.405 min.: P105967.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.90	983	177.85	540	190.90	500	201.40	284
165.90	957	178.90	4433	191.85	1508	202.90	874
166.90	5744	179.90	2932	192.90	1487	203.90	4241
167.90	2711	180.85	1414	193.80	176	204.90	7171
168.95	700	181.80	132	195.90	3104	205.90	28692
171.90	303	183.80	158	196.60	158	206.90	3726
172.85	423	184.90	2227	196.90	195	207.90	1016
173.90	1143	185.90	15716	197.85	95994	208.85	490
174.95	2375	186.90	4169	198.90	6194	209.85	551
175.95	552	187.85	363	199.85	519	210.10	120
176.85	931	188.85	1005	201.10	150	210.90	1341

Average of 3.394 to 3.405 min.: P105967.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
211.70	130	226.90	7777	242.90	898	258.90	506
214.85	341	227.80	1153	243.90	11131	264.90	1592
215.80	676	228.90	1416	245.00	1571	265.70	148
216.80	8249	230.95	594	245.85	2131	272.85	1531
217.90	891	233.85	332	246.85	657	273.85	3549
220.85	4567	234.90	548	248.80	263	274.90	19648
221.75	786	235.85	448	253.80	120	275.90	2604
222.85	1493	236.90	548	254.90	58154	276.85	1980
223.90	16193	238.90	225	255.90	8614	277.80	336
224.90	3880	240.90	173	256.90	668	282.80	141
225.90	296	241.90	971	257.90	3854	283.90	130

Average of 3.394 to 3.405 min.: P105967.D
dftpp
Modified:subtracted

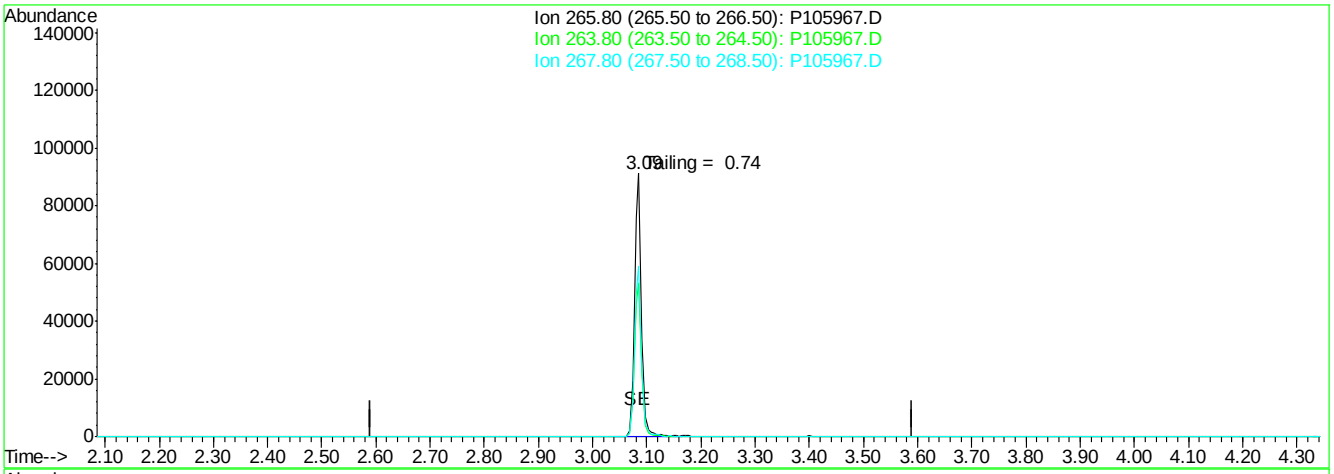
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.00	169	323.90	245	371.90	846	442.90	8912
292.80	370	326.80	312	372.90	146	443.85	630
293.90	209	333.00	129	401.90	207		
295.90	7093	333.85	915	402.90	409		

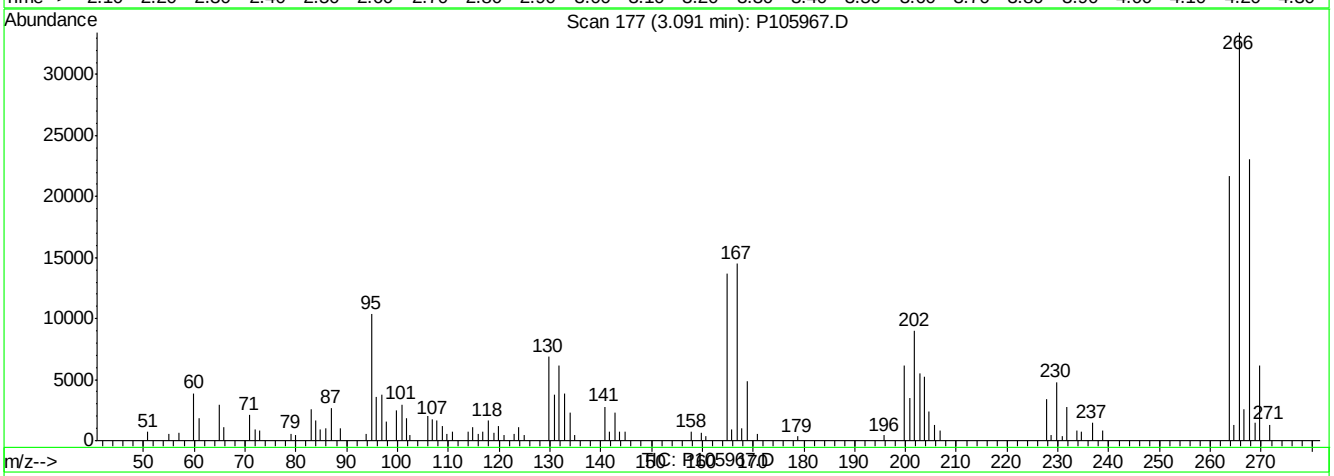
296.80	1075	334.90	130	403.80	124
302.80	602	345.85	488	420.85	365
313.80	224	351.95	459	421.80	156
314.85	654	352.90	374	422.85	1915
315.90	195	353.90	345	423.85	342
320.90	157	364.80	2397	440.90	6575
322.90	1718	365.85	391	441.90	39203

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105967.D Vial: 1
Acq On : 11 Jul 2016 8:37 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:43 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.09min 292.79ppb

response 80959

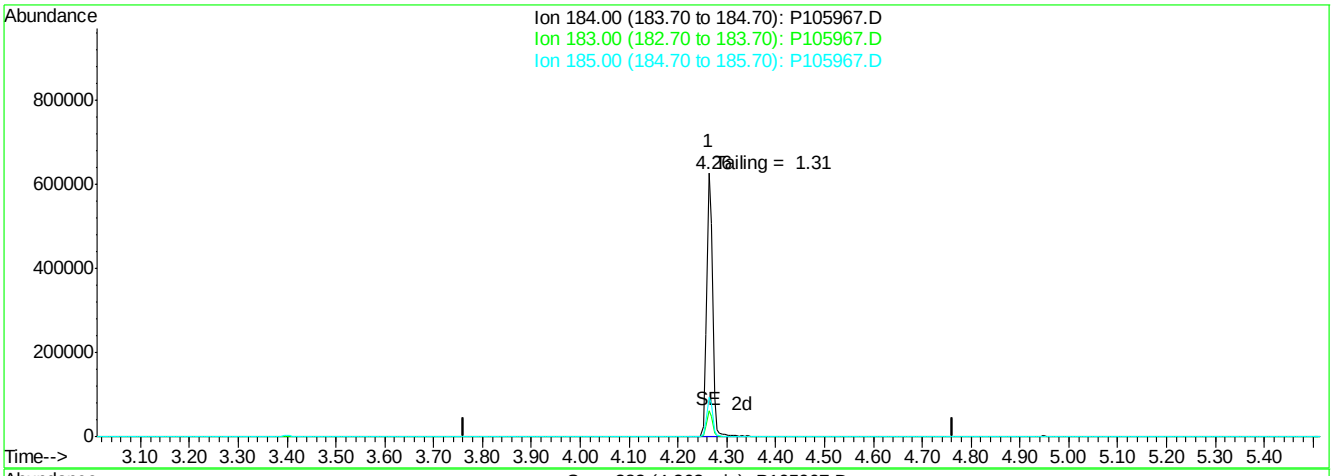
Ion	Exp%	Act%
265.80	100	100
263.80	67.60	58.37
267.80	69.90	64.61
0.00	0.00	0.00

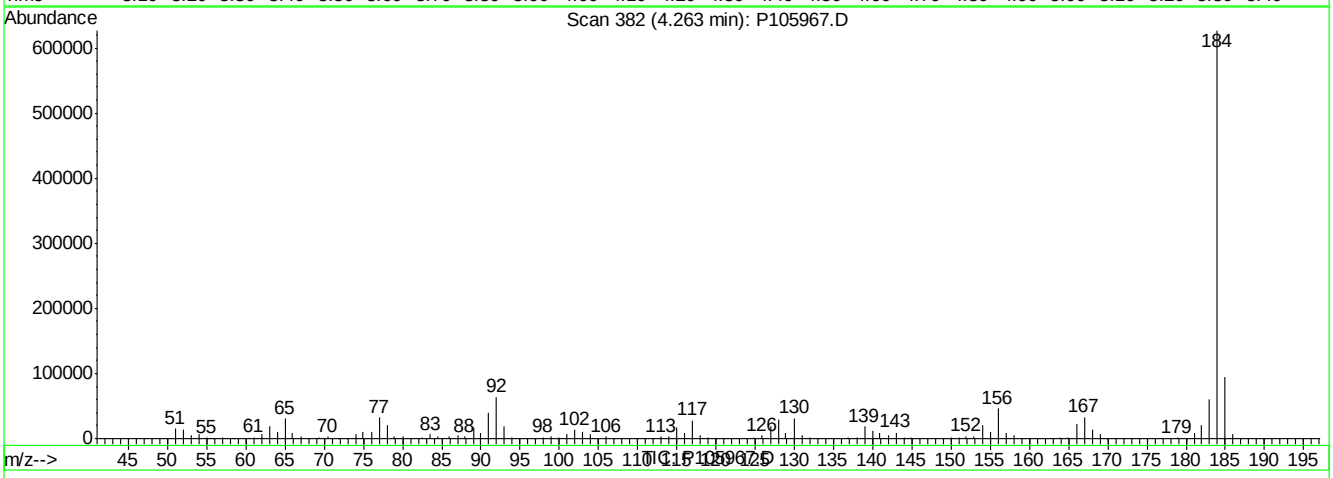
P105967.D DFTPPP.M Mon Jul 11 14:55:55 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105967.D Vial: 1
Acq On : 11 Jul 2016 8:37 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:43 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.26min 186.15ppb

response 529164

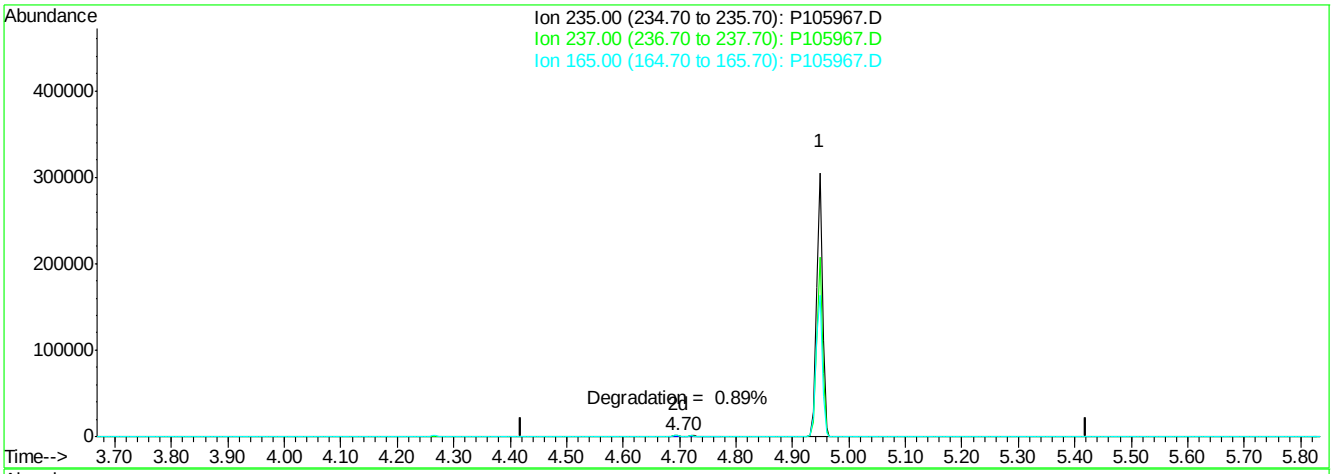
Ion	Exp%	Act%
184.00	100	100
183.00	10.20	9.64
185.00	13.60	14.98
0.00	0.00	0.00

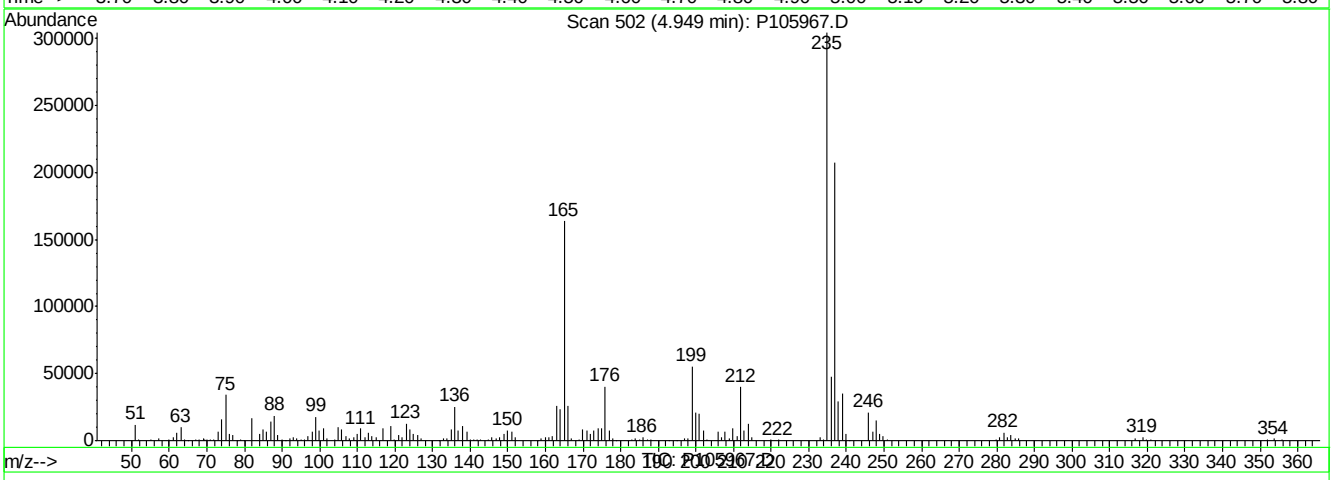
P105967.D DFTPPP.M Mon Jul 11 14:56:04 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105967.D Vial: 1
Acq On : 11 Jul 2016 8:37 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:43 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(3) ddt

4.95min 166.13ppb

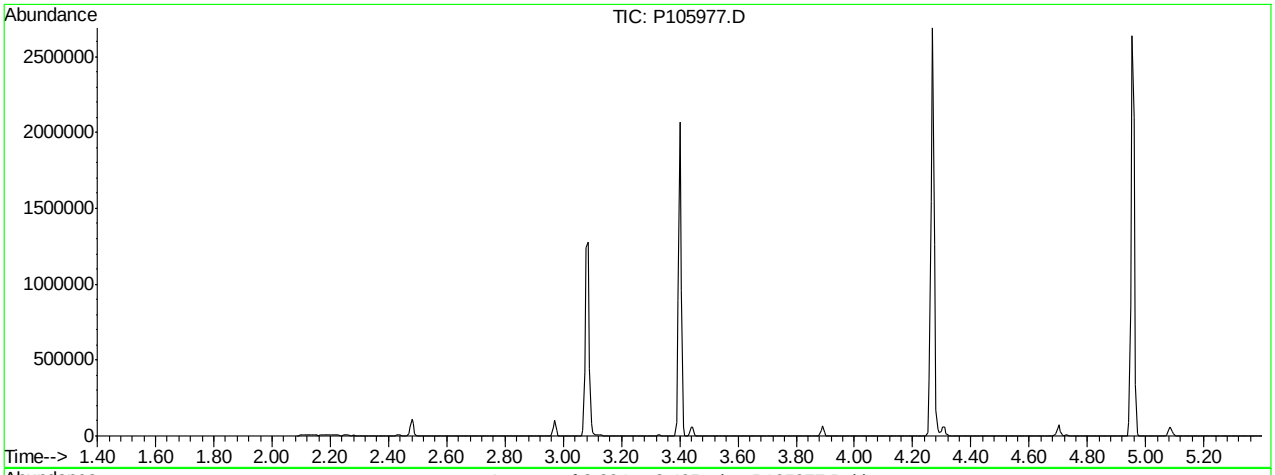
response 216016

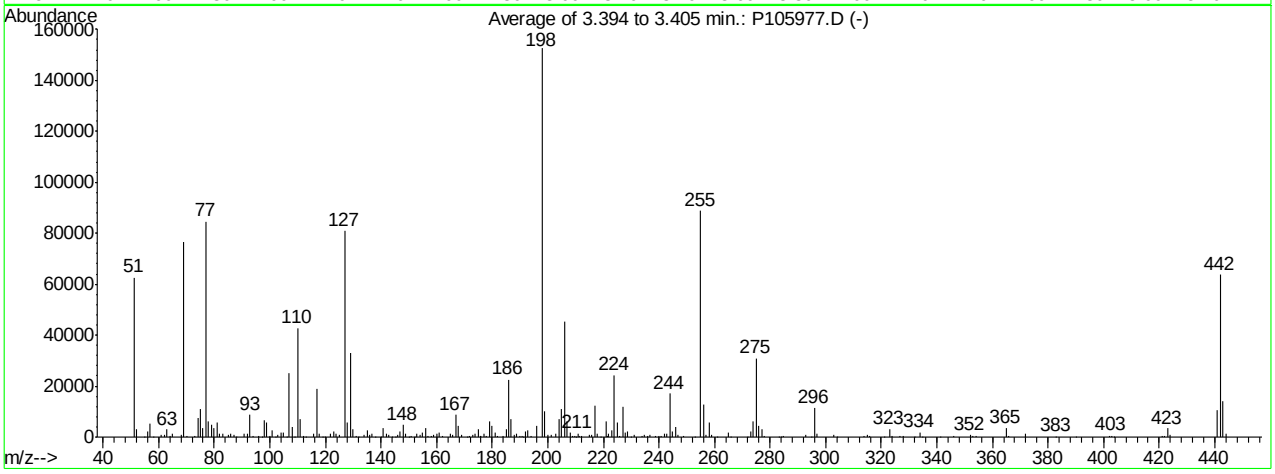
Ion	Exp%	Act%
235.00	100	100
237.00	55.80	66.38
165.00	51.00	56.01
0.00	0.00	0.00

P105967.D DFTPPP.M Mon Jul 11 14:56:13 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4682\P105977.D Vial: 1
Acq On : 11 Jul 2016 3:24 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4682 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 230, 231, 232; Background Corrected with Scan 226

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.0	62520	PASS
68	69	0.00	2	1.4	1082	PASS
69	198	0.00	100	50.1	76442	PASS
70	69	0.00	2	0.5	398	PASS
127	198	40	60	53.1	80920	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	152504	PASS
199	198	5	9	6.7	10247	PASS
275	198	10	30	20.2	30823	PASS
365	198	1	100	2.4	3617	PASS
441	443	0.10	100	75.0	10468	PASS
442	198	40	100	41.7	63599	PASS
443	442	17	23	22.0	13961	PASS

P105977.D DFTPPP.M Tue Jul 12 13:55:15 2016

Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	62520	68.00	1082	80.95	5927	95.95	437
52.00	3122	68.90	76442	81.90	1509	97.10	144
54.90	155	70.00	398	82.95	1267	97.90	6415
55.95	2164	72.95	647	84.90	959	98.90	5646
57.00	5139	74.00	7662	85.90	1333	99.95	414
57.90	164	75.00	11170	87.00	739	100.90	2776
60.90	902	76.00	3618	88.00	123	101.90	120
62.00	850	77.00	84512	90.90	1491	102.95	858
63.00	2891	78.00	6081	92.00	1272	103.90	1675
64.00	291	79.00	4788	92.90	8706	104.90	1670
65.00	1533	80.00	3754	93.90	674	106.00	131

Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
106.90	25086	119.90	149	133.90	975	145.85	803
107.90	3782	121.90	1492	134.90	2572	146.90	2270
109.00	132	122.90	2122	135.95	781	147.85	4781
109.90	42818	123.90	1325	136.90	1487	148.90	1253
110.90	6925	124.90	987	137.80	161	150.00	126
111.90	556	126.90	80920	139.90	189	151.00	383
112.90	174	127.90	5871	140.90	3731	151.90	203
115.90	1185	128.90	33165	141.90	1216	152.90	1284
116.90	18956	129.90	3011	142.85	875	153.90	1027
117.90	1411	130.95	541	143.90	137	154.95	1997
118.90	136	132.00	128	145.00	153	155.95	3398

Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.90	441	170.90	160	180.90	1904	191.85	2035
157.90	623	171.90	613	181.90	444	192.90	2604
158.90	705	172.90	1015	183.90	571	193.80	281
159.90	1233	173.90	1400	184.90	3017	195.90	4337
160.90	1768	174.90	3163	185.90	22633	197.90	152504
162.00	271	175.80	360	186.90	6966	198.90	10247
164.85	1328	176.00	577	187.90	775	199.95	861
165.90	1006	176.95	1376	188.90	1551	201.30	739
166.90	8683	177.90	426	189.90	254	202.85	1453
167.90	4563	178.90	6116	190.80	550	203.90	7109
168.90	834	179.90	4457	191.00	194	204.90	11128

Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.90	45400	216.85	12460	227.90	1722	241.90	1236
206.90	6261	217.90	1491	228.85	2075	242.90	1132
207.90	1745	218.80	116	230.00	116	243.90	17151
208.80	326	220.90	6064	230.90	908	244.90	2297
209.90	502	221.50	300	233.85	676	245.90	3894
210.10	140	221.85	1446	234.85	798	246.85	813
210.85	1466	222.90	2619	235.90	453	248.80	616
211.50	290	223.90	24200	236.90	911	252.90	211
212.00	249	224.90	5853	238.85	394	254.90	88824
214.85	690	225.90	348	239.85	272	255.90	12604
215.90	790	226.90	11699	240.85	506	256.90	995

Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
257.90	5682	277.95	426	314.85	885	345.85	514
258.90	751	283.00	217	315.90	485	351.90	729
260.90	125	283.90	131	320.90	165	352.90	492
264.90	1804	284.90	613	322.90	3180	353.90	594

265.80	188	292.85	907	323.85	430	364.85	3617
271.90	178	294.80	132	326.80	604	365.85	405
272.90	2390	295.90	11293	327.80	245	371.90	1269
273.90	6067	296.90	1490	331.90	155	382.80	146
274.90	30823	302.90	1038	333.90	1822	389.80	139
275.90	4328	303.90	147	334.90	178	401.90	475
276.90	2976	313.90	422	341.00	151	402.80	666

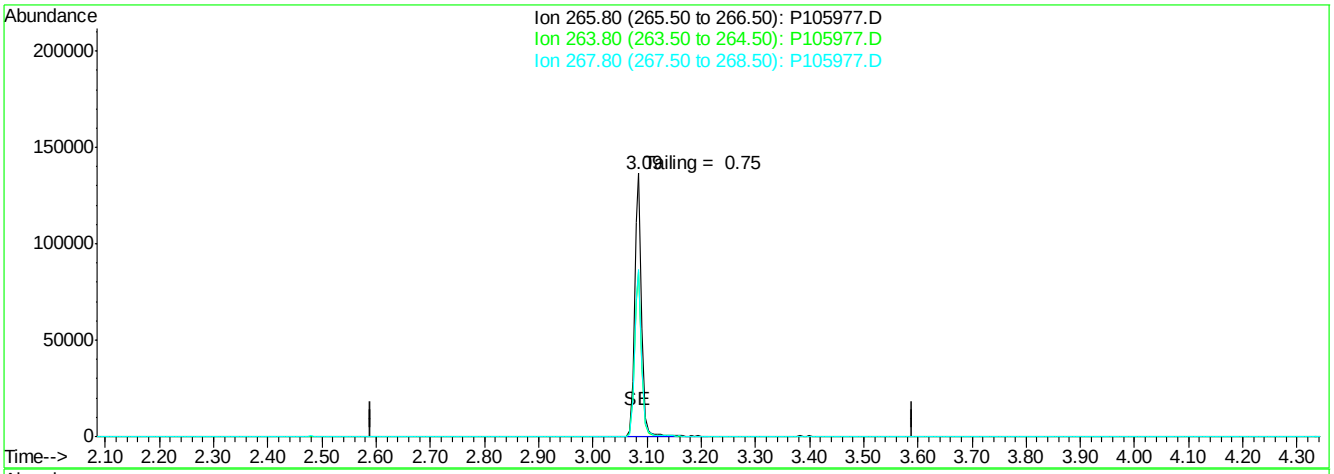
Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

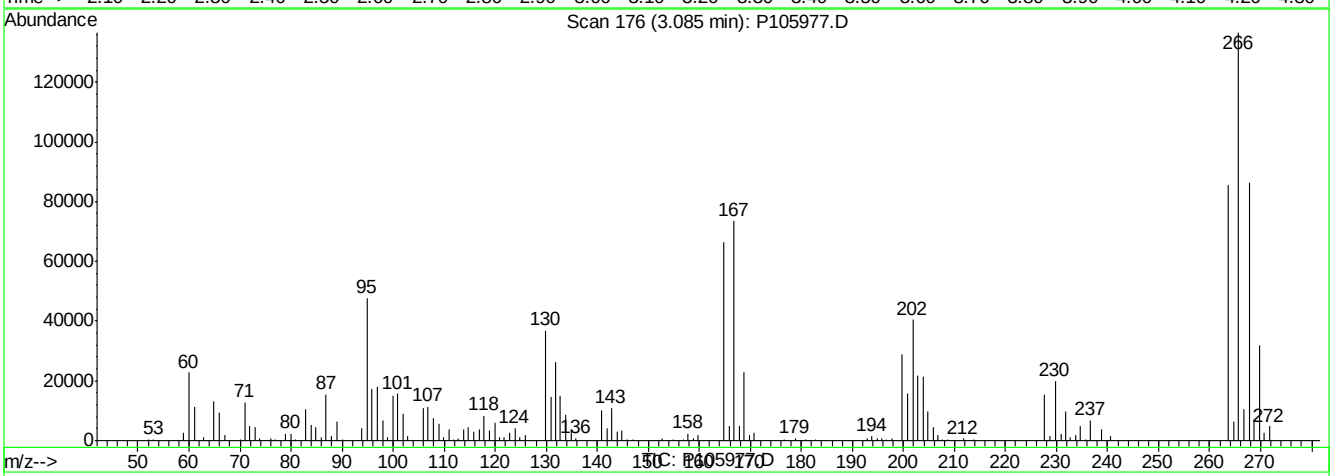
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.90	162						
420.85	450						
421.90	341						
422.90	3436						
423.90	738						
440.90	10468						
441.90	63599						
442.90	13961						
443.90	1429						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105977.D Vial: 1
Acq On : 11 Jul 2016 3:24 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:30 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.09min 439.11ppb

response 121417

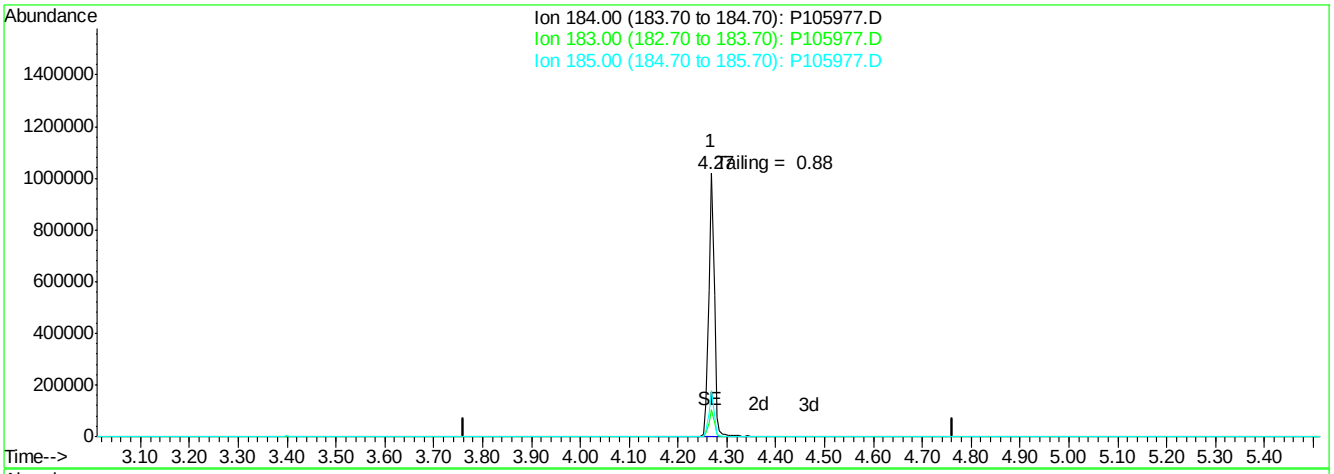
Ion	Exp%	Act%
265.80	100	100
263.80	67.60	62.68
267.80	69.90	63.17
0.00	0.00	0.00

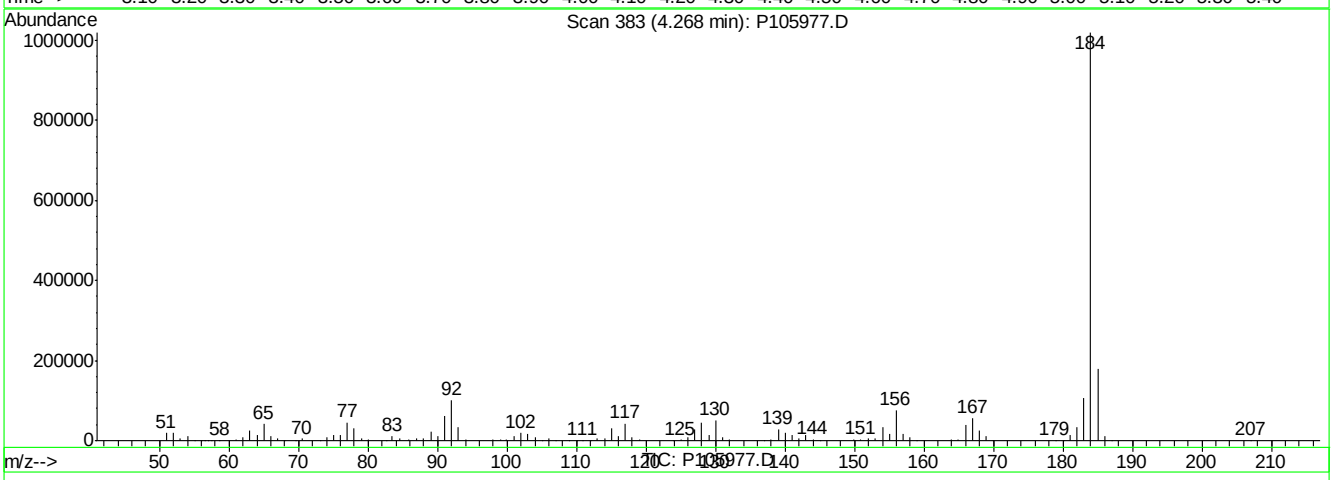
P105977.D DFTPPP.M Tue Jul 12 13:54:59 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105977.D Vial: 1
Acq On : 11 Jul 2016 3:24 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:30 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.27min 290.32ppb

response 825274

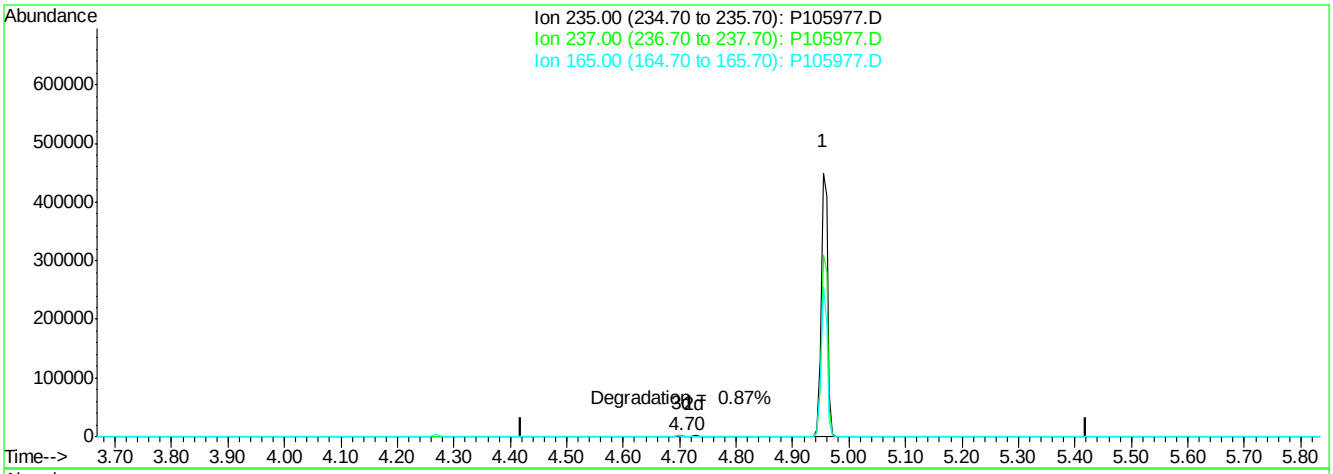
Ion	Exp%	Act%
184.00	100	100
183.00	10.20	9.79
185.00	13.60	16.07
0.00	0.00	0.00

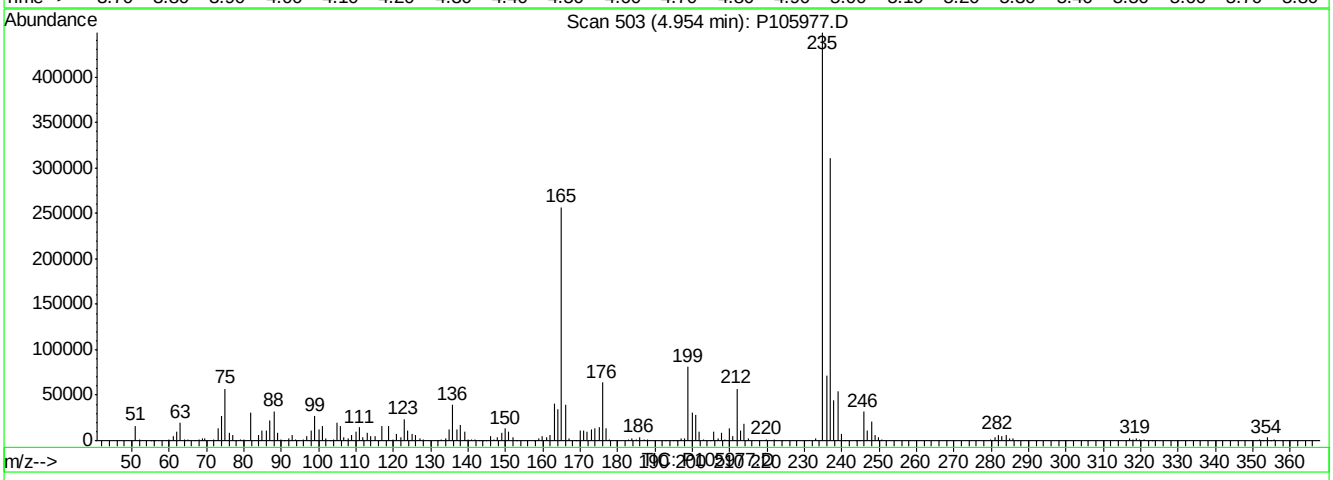
P105977.D DFTPPP.M Tue Jul 12 13:55:04 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105977.D Vial: 1
Acq On : 11 Jul 2016 3:24 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:30 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(3) ddt

4.95min 285.01ppb

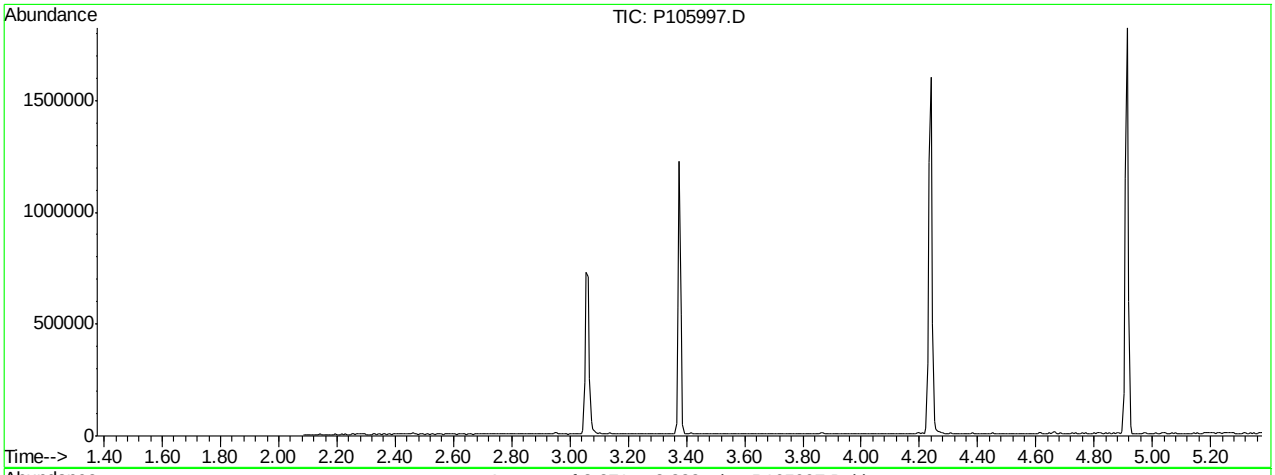
response 370593

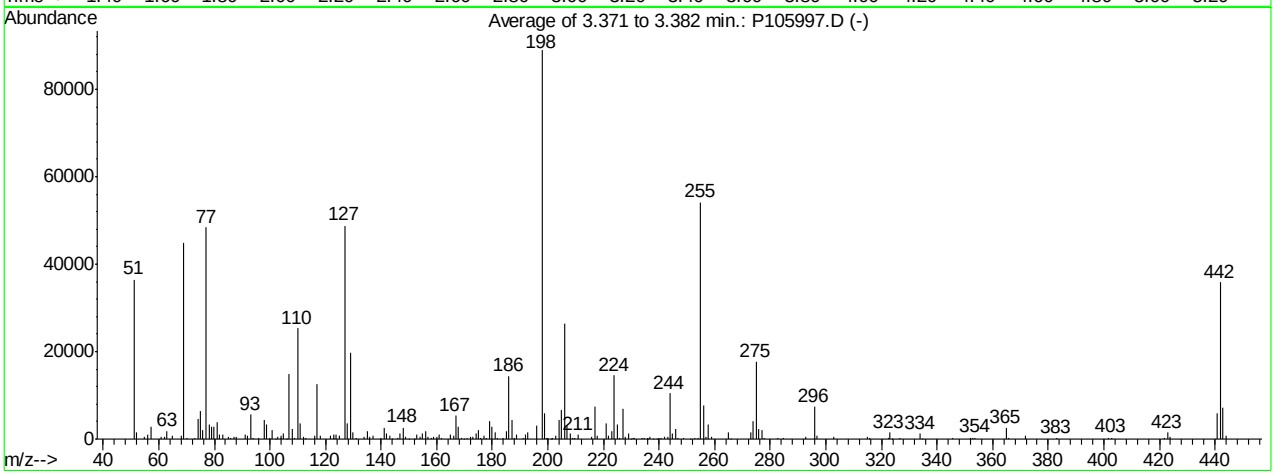
Ion	Exp%	Act%
235.00	100	100
237.00	55.80	67.61
165.00	51.00	52.76
0.00	0.00	0.00

P105977.D DFTPPP.M Tue Jul 12 13:55:11 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4683\P105997.D Vial: 1
Acq On : 12 Jul 2016 4:19 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4683 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 226, 227, 228; Background Corrected with Scan 222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.0	36464	PASS
68	69	0.00	2	1.7	770	PASS
69	198	0.00	100	50.5	44922	PASS
70	69	0.00	2	0.4	172	PASS
127	198	40	60	54.9	48794	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	88893	PASS
199	198	5	9	6.6	5860	PASS
275	198	10	30	19.9	17662	PASS
365	198	1	100	2.8	2500	PASS
441	443	0.10	100	82.0	6000	PASS
442	198	40	100	40.4	35880	PASS
443	442	17	23	20.4	7315	PASS

P105997.D DFTPPP.M Tue Jul 12 17:20:51 2016

Average of 3.371 to 3.382 min.: P105997.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.95	36464	70.00	172	82.95	921	98.90	3387
52.00	1615	73.00	229	84.90	449	99.90	181
54.95	575	74.00	4728	85.90	222	100.95	1943
55.95	1145	75.00	6447	86.90	490	102.00	139
57.00	2933	75.95	2172	87.85	632	102.90	418
61.00	456	77.00	48349	90.90	1030	103.80	357
61.95	502	78.00	3365	91.90	793	103.95	806
63.00	1893	78.90	2747	92.90	5594	104.85	1386
65.00	801	79.90	2719	93.95	344	105.90	137
67.95	770	80.95	3764	95.90	157	106.90	14924
68.90	44922	81.95	990	97.90	4393	108.00	2278

Average of 3.371 to 3.382 min.: P105997.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
108.90	372	123.90	914	139.80	182	152.90	998
109.90	25376	124.90	727	140.90	2592	153.90	618
110.90	3531	126.90	48794	141.90	1170	154.90	1358
111.90	455	127.90	3667	142.95	730	155.95	1915
112.90	213	128.90	19638	143.80	127	156.95	460
115.90	841	129.90	1596	145.85	356	157.90	339
116.90	12529	130.90	377	146.90	1223	158.85	437
117.90	832	133.85	545	147.90	2619	159.85	614
121.90	837	134.95	1765	148.95	496	160.90	1115
122.80	383	135.90	516	149.90	119	161.70	149
122.95	981	136.95	883	151.80	126	164.90	1014

Average of 3.371 to 3.382 min.: P105997.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
165.90	707	176.90	852	188.85	929	202.85	701
166.90	5366	177.80	189	190.90	359	203.90	4355
167.90	2776	178.90	4076	191.90	1134	204.90	6657
168.90	393	179.90	2737	192.90	1559	205.90	26368
169.90	123	180.90	1508	195.85	3073	206.95	3152
170.90	143	181.80	193	197.90	88893	207.85	1225
171.95	434	184.00	145	198.90	5860	208.80	176
172.90	473	184.90	1761	199.70	309	209.80	232
174.00	1178	185.90	14464	199.90	260	210.90	992
174.90	2073	186.90	4261	201.30	134	215.90	584
175.85	288	187.90	320	201.60	247	216.85	7535

Average of 3.371 to 3.382 min.: P105997.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
217.85	868	230.70	145	241.85	638	255.90	7762
220.90	3548	230.90	214	242.95	493	256.80	560
221.90	816	233.80	245	243.90	10507	257.80	3418
222.85	1750	234.85	395	244.90	1292	258.80	421
223.90	14523	235.80	130	245.85	2332	264.85	1486
224.90	3390	236.00	225	246.80	206	265.80	132
225.85	327	236.85	527	248.80	337	272.85	1579
226.90	6830	237.90	119	251.00	119	273.85	4005
227.90	635	238.90	119	252.80	141	274.90	17662
228.85	1383	239.90	142	253.90	143	275.90	2368
229.90	139	240.90	230	254.90	54178	276.85	2118

Average of 3.371 to 3.382 min.: P105997.D
dftpp
Modified:subtracted

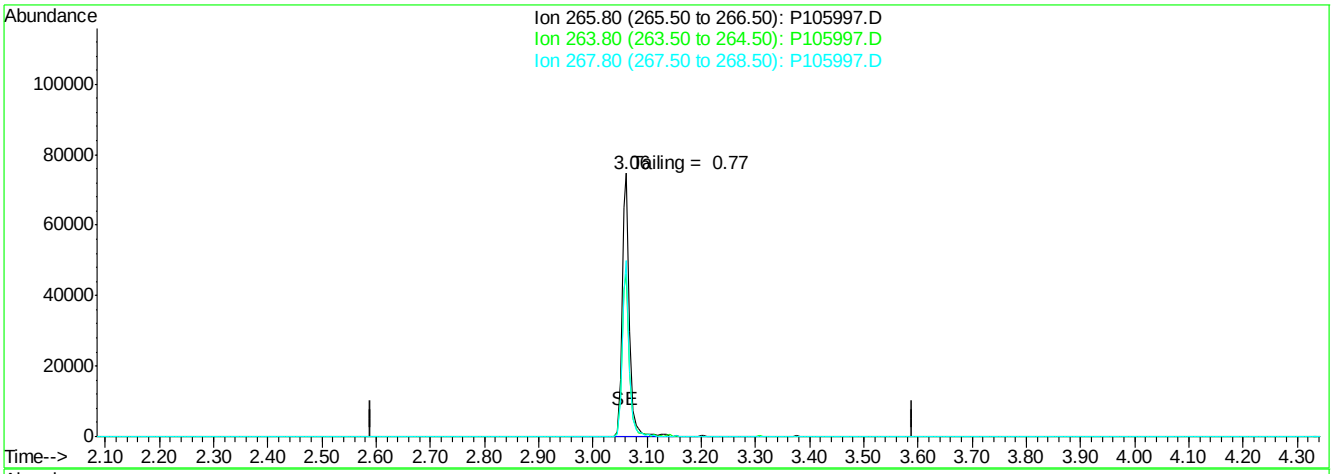
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.00	172	323.80	121	382.90	208		
282.80	389	326.80	208	401.80	183		
284.85	380	333.90	1273	402.85	291		
292.85	437	334.80	121	421.80	142		

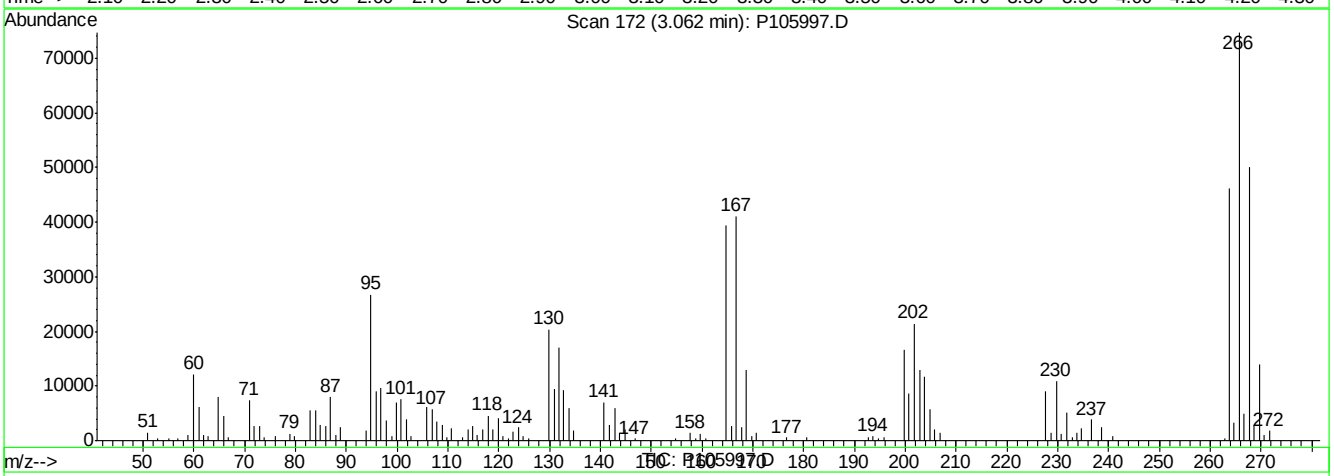
295.90	7397	345.70	154	422.90	1475
296.85	824	351.90	334	423.85	481
302.90	612	352.90	181	440.90	6000
314.80	534	353.80	340	441.90	35880
315.90	195	364.80	2500	442.90	7315
322.70	227	365.80	161	443.85	749
322.90	1500	371.85	748		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105997.D Vial: 1
Acq On : 12 Jul 2016 4:19 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 16:25 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.06min 253.00ppb

response 69958

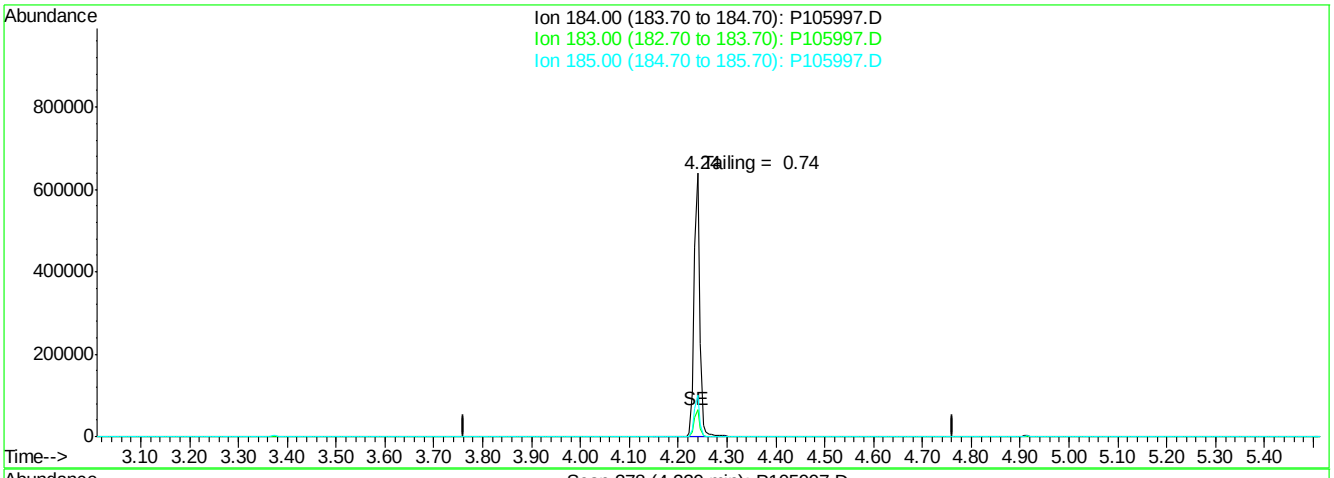
Ion	Exp%	Act%
265.80	100	100
263.80	67.60	61.91
267.80	69.90	67.26
0.00	0.00	0.00

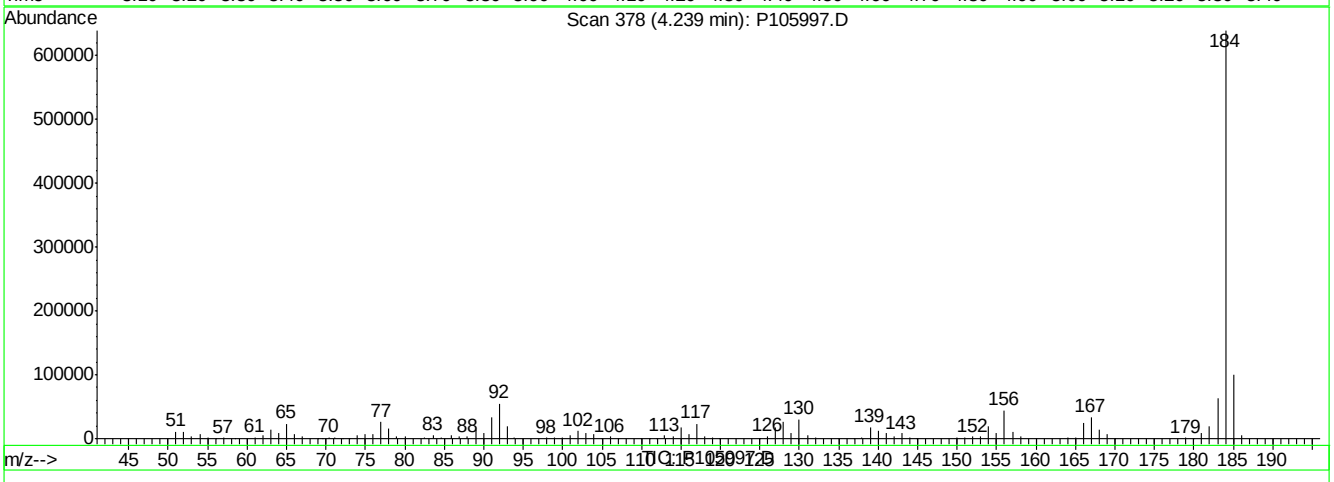
P105997.D DFTPPP.M Tue Jul 12 17:20:59 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105997.D Vial: 1
Acq On : 12 Jul 2016 4:19 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 16:25 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.24min 181.67ppb

response 516407

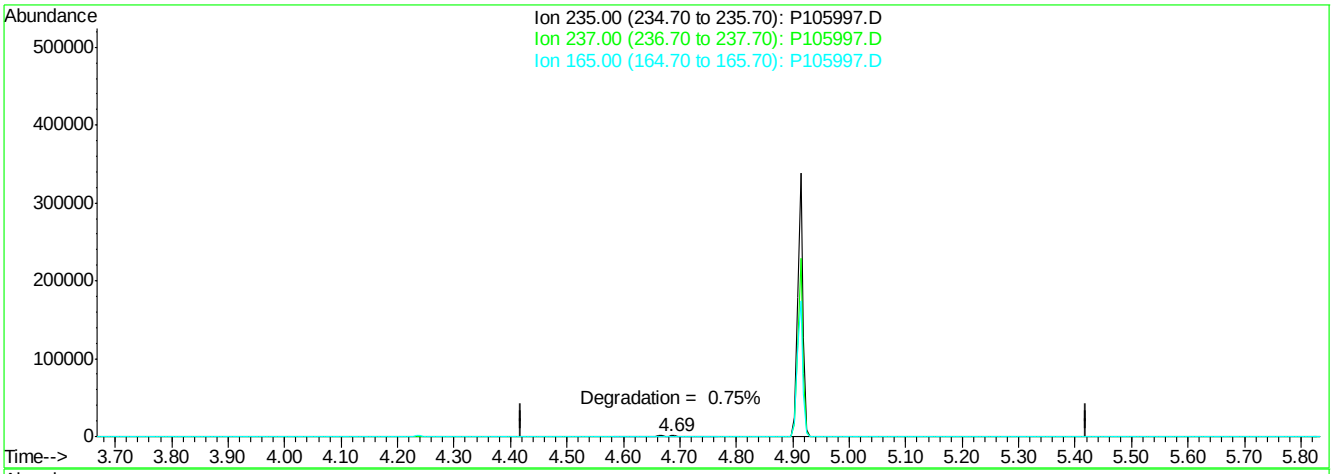
Ion	Exp%	Act%
184.00	100	100
183.00	10.20	9.58
185.00	13.60	14.61
0.00	0.00	0.00

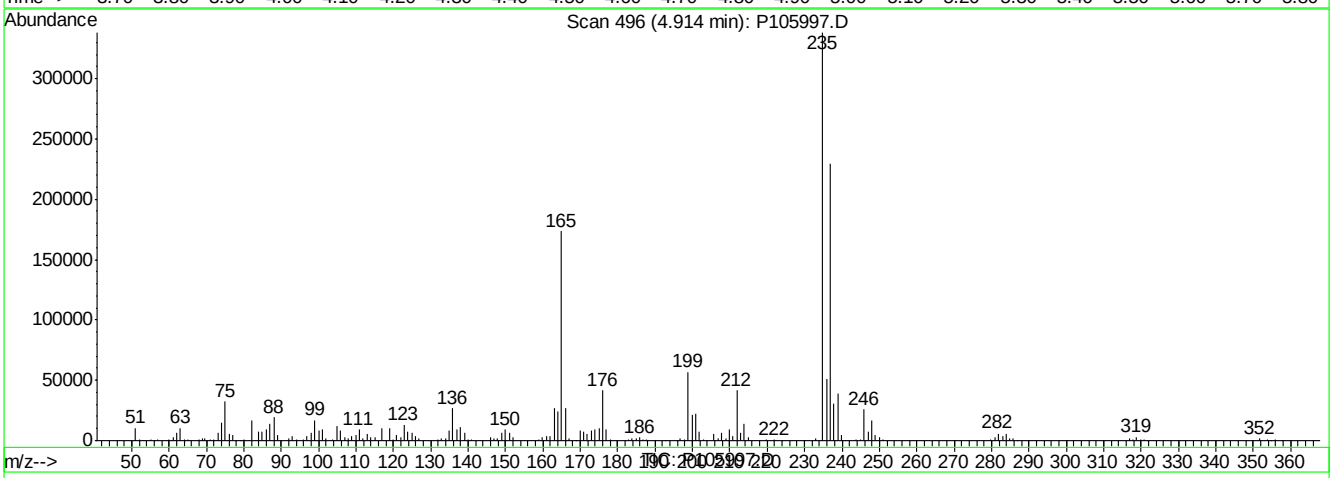
P105997.D DFTPPP.M Tue Jul 12 17:21:04 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105997.D Vial: 1
Acq On : 12 Jul 2016 4:19 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 16:25 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(3) ddt

4.91min 178.80ppb

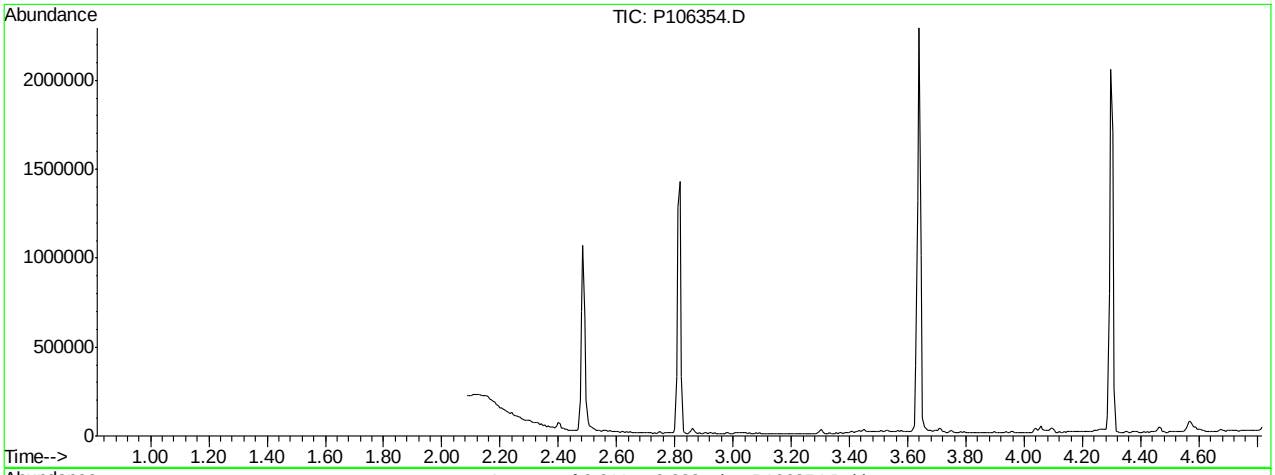
response 232494

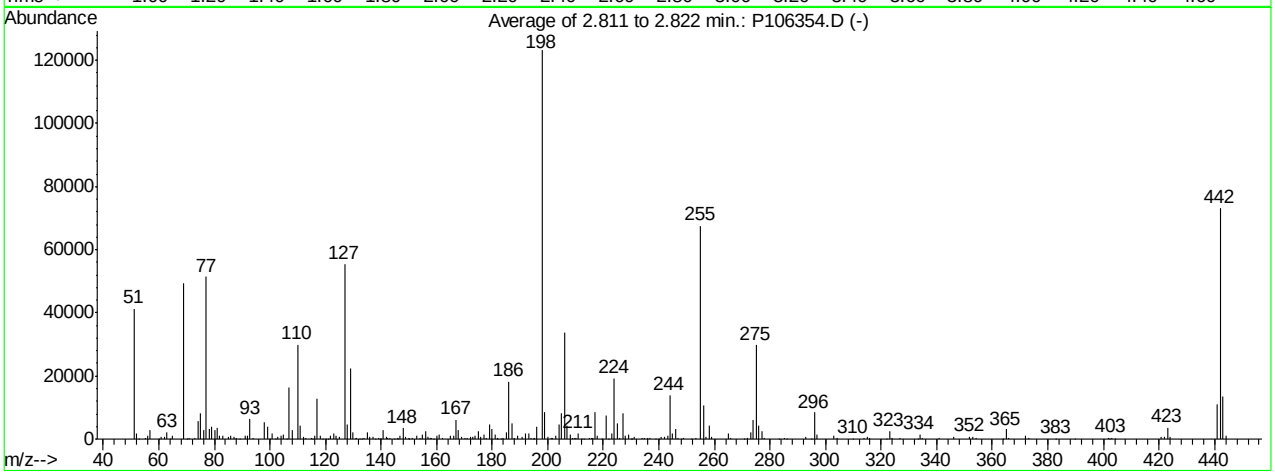
Ion	Exp%	Act%
235.00	100	100
237.00	55.80	66.12
165.00	51.00	53.81
0.00	0.00	0.00

P105997.D DFTPPP.M Tue Jul 12 17:21:10 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4702\P106354.D Vial: 1
Acq On : 26 Jul 2016 12:09 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op95516,ep4702 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 128, 129, 130; Background Corrected with Scan 123

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.5	41240	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.1	49365	PASS
70	69	0.00	2	0.4	188	PASS
127	198	40	60	45.1	55532	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	123128	PASS
199	198	5	9	6.8	8414	PASS
275	198	10	30	24.1	29708	PASS
365	198	1	100	2.6	3175	PASS
441	443	0.10	100	81.1	11056	PASS
442	198	40	100	59.5	73240	PASS
443	442	17	23	18.6	13636	PASS

P106354.D DFTPPP.M Tue Jul 26 15:50:46 2016

Average of 2.811 to 2.822 min.: P106354.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.95	41240	65.05	973	80.00	2924	92.90	6299
52.00	1952	68.90	49365	80.95	3735	93.95	468
52.90	143	70.00	188	82.00	1024	98.00	5212
55.00	222	71.00	324	83.00	1003	99.00	3909
56.00	1098	73.00	289	85.00	818	99.90	151
57.00	2931	74.00	5691	85.90	1038	100.90	1946
60.00	61	75.00	8076	87.00	632	102.00	117
60.95	788	76.05	2873	87.95	327	102.90	817
62.00	619	77.00	51428	88.90	118	103.95	1244
62.95	2183	78.00	3152	90.95	942	104.90	1352
64.00	157	79.00	3870	92.00	940	106.00	189

Average of 2.811 to 2.822 min.: P106354.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
107.00	16467	119.10	169	130.90	214	139.90	167
108.00	2739	120.00	177	131.10	192	140.90	2916
110.00	29919	121.10	138	132.10	163	142.05	711
110.90	4425	121.95	1151	133.00	154	142.50	221
111.95	653	122.95	1672	133.90	514	142.95	379
113.00	297	123.95	988	135.00	2006	144.70	120
115.00	264	124.95	845	135.90	782	145.90	170
115.20	131	126.95	55532	137.00	867	146.10	225
116.00	1061	128.00	4693	138.00	130	146.90	1066
116.90	12855	128.90	22516	139.00	275	147.90	3478
117.95	1151	129.95	2111	139.70	163	148.95	587

Average of 2.811 to 2.822 min.: P106354.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
149.95	288	159.90	1044	172.90	643	183.00	133
150.20	124	160.95	1277	173.95	1108	183.95	382
151.10	525	161.95	356	175.00	2511	185.00	2286
152.90	901	164.90	1191	175.90	616	186.00	18203
154.00	356	166.05	939	176.95	1374	187.00	4975
154.95	1581	167.00	6118	177.90	352	188.05	476
156.00	2349	167.95	2844	178.90	4500	188.95	1180
157.05	674	168.95	567	180.00	3086	190.90	713
157.60	229	170.10	200	180.95	1256	192.00	1811
158.00	268	170.95	308	181.80	265	193.00	1650
158.90	161	172.00	626	182.00	136	193.95	296

Average of 2.811 to 2.822 min.: P106354.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
194.90	120	206.00	33719	216.10	425	227.85	1003
195.10	211	206.95	4351	216.90	8669	228.90	1542
196.00	3972	208.00	1507	217.95	1097	229.70	120
197.90	123128	209.00	348	219.20	119	230.10	132
198.90	8414	209.90	235	220.95	7312	231.00	653
200.00	711	210.15	393	221.90	132	233.90	383
201.20	277	210.95	1921	222.95	1883	234.85	480
201.50	376	212.00	144	224.00	19280	235.95	496
202.85	1089	213.00	134	225.00	4910	236.90	502
204.00	4587	214.80	196	225.90	348	238.80	149
205.00	8057	215.90	301	227.00	8066	239.80	167

Average of 2.811 to 2.822 min.: P106354.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
240.95	663	254.95	67528	274.90	29708	303.00	903
242.00	868	256.00	10568	276.00	4099	304.00	459
243.00	1059	256.90	691	277.00	2438	309.90	124
244.00	13939	257.95	4325	277.90	333	313.90	331

244.95	1709	259.05	625	283.00	149	314.90	824
245.90	3274	264.95	1704	285.00	510	315.95	485
246.95	480	265.75	515	285.90	132	321.90	130
247.90	147	270.80	134	292.95	619	323.00	2668
248.95	487	271.90	271	295.00	127	323.90	305
251.80	134	272.95	2196	295.90	8438	326.85	496
253.20	219	273.90	5981	296.95	1455	333.10	132

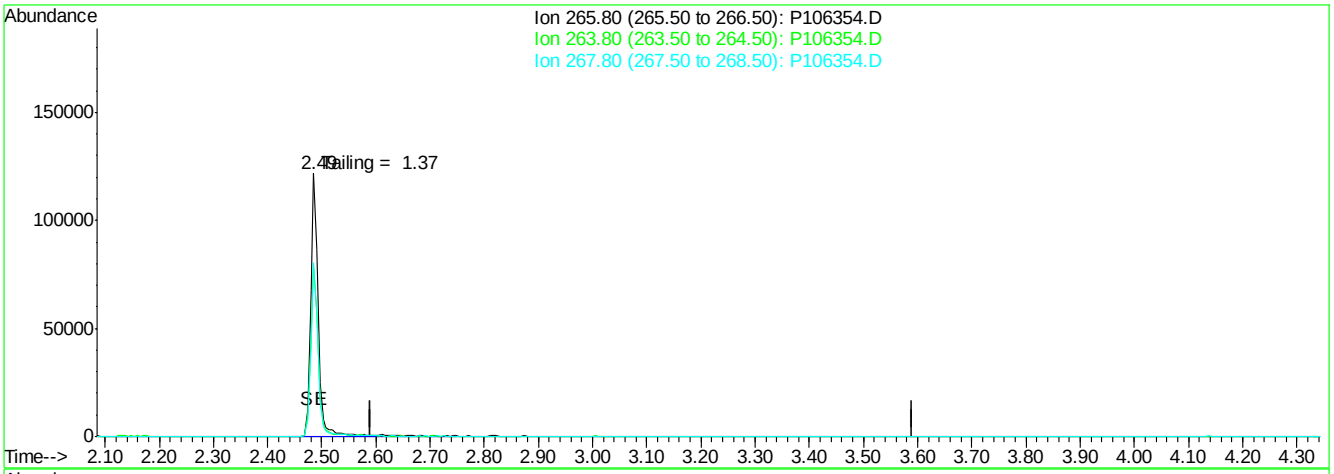
Average of 2.811 to 2.822 min.: P106354.D
dftpp
Modified:subtracted

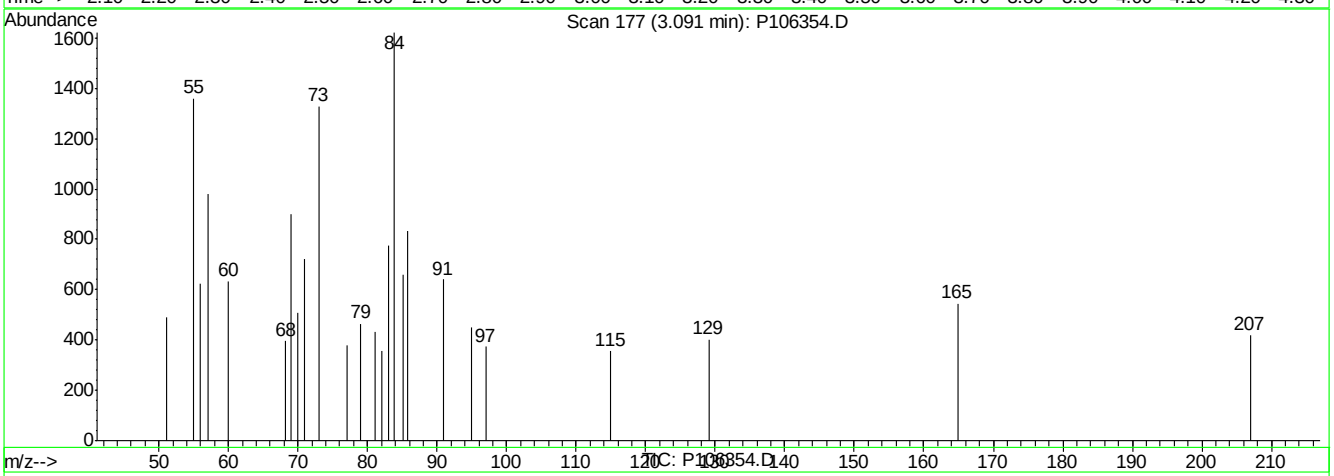
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
333.95	1610	373.00	214	441.00	11056		
334.90	292	383.00	191	441.95	73240		
340.95	278	389.80	124	442.95	13636		
345.90	650	401.80	274	443.95	1209		
351.90	844	402.00	117				
352.95	637	402.90	497				
354.05	422	404.00	131				
363.90	125	420.85	625				
364.85	3175	421.90	556				
365.75	486	423.00	3685				
371.90	1219	423.85	863				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106354.D Vial: 1
Acq On : 26 Jul 2016 12:09 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op95516,ep4702 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 12:15 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.09min 0.00ppb

response 0

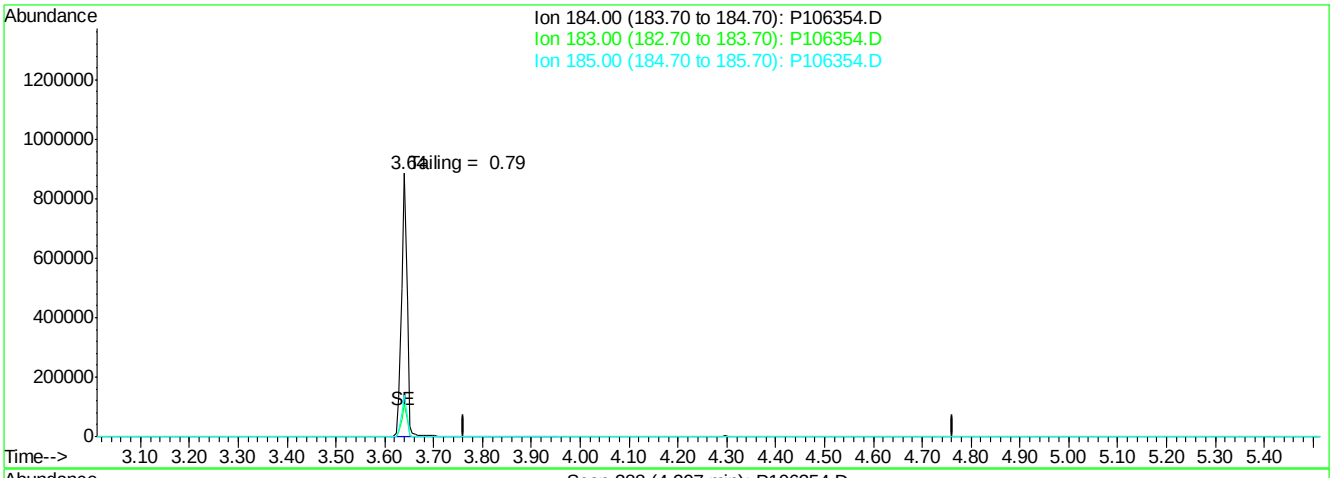
Ion	Exp%	Act%
265.80	100	0.00
263.80	67.60	0.00#
267.80	69.90	0.00#
0.00	0.00	0.00

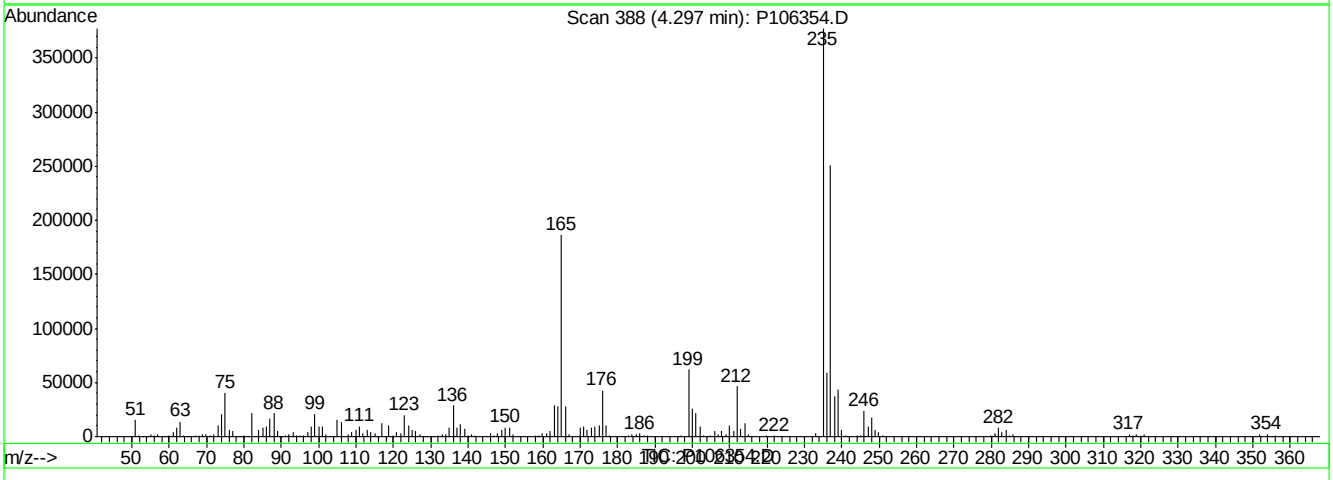
P106354.D DFTPPP.M Tue Jul 26 15:50:19 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106354.D Vial: 1
Acq On : 26 Jul 2016 12:09 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op95516,ep4702 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 12:15 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.30min 0.69ppb

response 1973

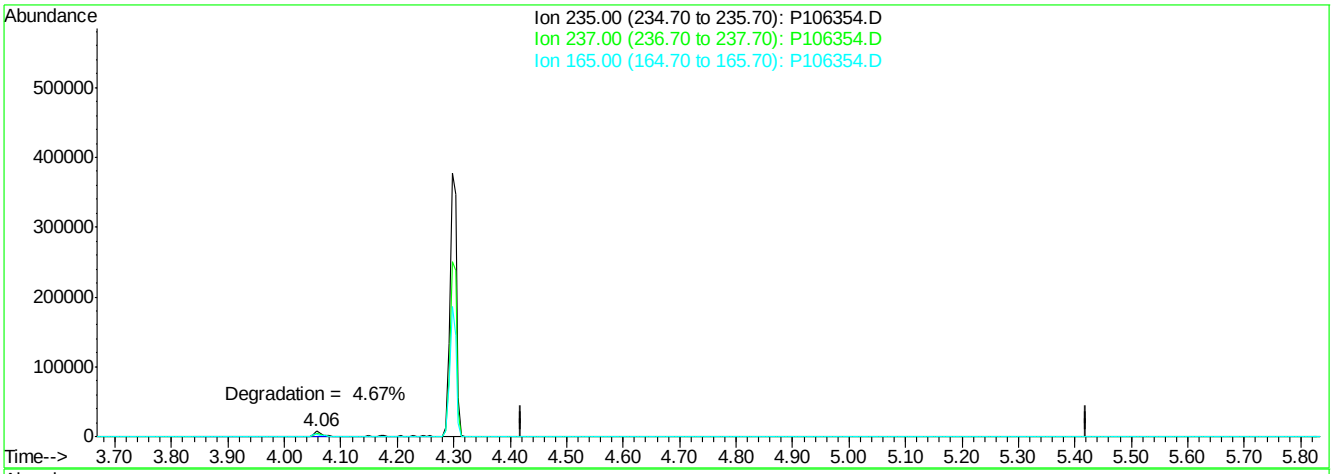
Ion	Exp%	Act%
184.00	100	100
183.00	10.20	0.00
185.00	13.60	68.98#
0.00	0.00	0.00

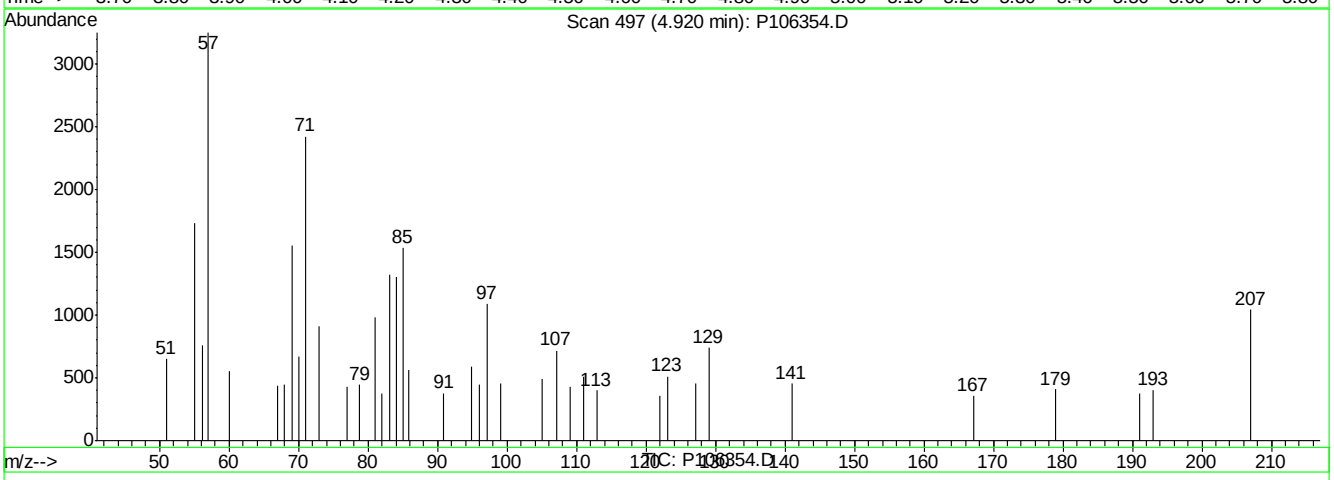
P106354.D DFTPPP.M Tue Jul 26 15:50:24 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106354.D Vial: 1
Acq On : 26 Jul 2016 12:09 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op95516,ep4702 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 12:15 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 : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(3) ddt

4.92min 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	55.80	0.00#
165.00	51.00	0.00#
0.00	0.00	0.00

P106354.D DFTPPP.M Tue Jul 26 15:50:37 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62950.D
Acq On : 14 Jul 2016 10:23 am
Operator : ashleyd
Sample : ic2975-0.2
Misc : op95160a,e3m2975
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:26:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.282	150	274664	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	443421	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	770447	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	658595	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	168357	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
4) Phenol-d5	5.891	99	252876	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
7) Nitrobenzene-d5	7.410	82	243228	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
15) 2-Fluorobiphenyl	10.958	172	558804	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
20) 2,4,6-Tribromophenol	13.822	330	77291	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
28) Terphenyl-d14	18.298	244	505225	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.081	88	3490	0.20	ppm	100
5) Phenol	5.915	94	65979	1.00	ppm	100
6) bis(2-Chloroethyl)ether	5.988	93	10011	0.20	ppm	100
8) Nitrobenzene	7.448	77	12801	0.20	ppm	100
9) Naphthalene	8.804	128	35278	0.20	ppm	100
10) Hexachlorobutadiene	9.105	225	6059	0.20	ppm	100
11) 2-Methylnaphthalene	10.179	141	18202	0.20	ppm	100
12) 1-Methylnaphthalene	10.364	141	18612	0.20	ppm	100
13) Hexachlorocyclopentadiene	10.528	237	8915	0.40	ppm	100
16) Acenaphthylene	11.931	152	32118	0.20	ppm	100
17) Acenaphthene	12.287	153	21647	0.20	ppm	100
18) 4,6-dinitro-2-methylph...	13.502	198	10109	1.00	ppm	100
19) Fluorene	13.313	166	23540	0.20	ppm	100
22) Hexachlorobenzene	14.434	284	8608	0.20	ppm	100
23) Pentachlorophenol	14.867	266	15705	1.00	ppm	100
24) Phenanthrene	15.222	178	35006	0.20	ppm	100
25) Anthracene	15.315	178	30805	0.20	ppm	100
26) Fluoranthene	17.510	202	43186	0.20	ppm	100
27) Pyrene	17.896	202	41279	0.20	ppm	100
29) Benzo[a]anthracene	19.998	228	36051	0.20	ppm	100
30) Chrysene	20.044	228	37086	0.20	ppm	100
32) Benzo[b]fluoranthene	21.657	252	44363	0.20	ppm	100
33) Benzo[k]fluoranthene	21.694	252	39275	0.20	ppm	100
34) Benzo[a]pyrene	22.108	252	39842	0.20	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.557	276	40948	0.20	ppm	100
36) Dibenz[a,h]anthracene	23.594	278	33518	0.20	ppm	100
37) Benzo[g,h,i]perylene	23.895	276	37590	0.20	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62950.D
Acq On : 14 Jul 2016 10:23 am
Operator : ashleyd
Sample : ic2975-0.2
Misc : op95160a,e3m2975
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:26:25 2016
Response via : Initial Calibration

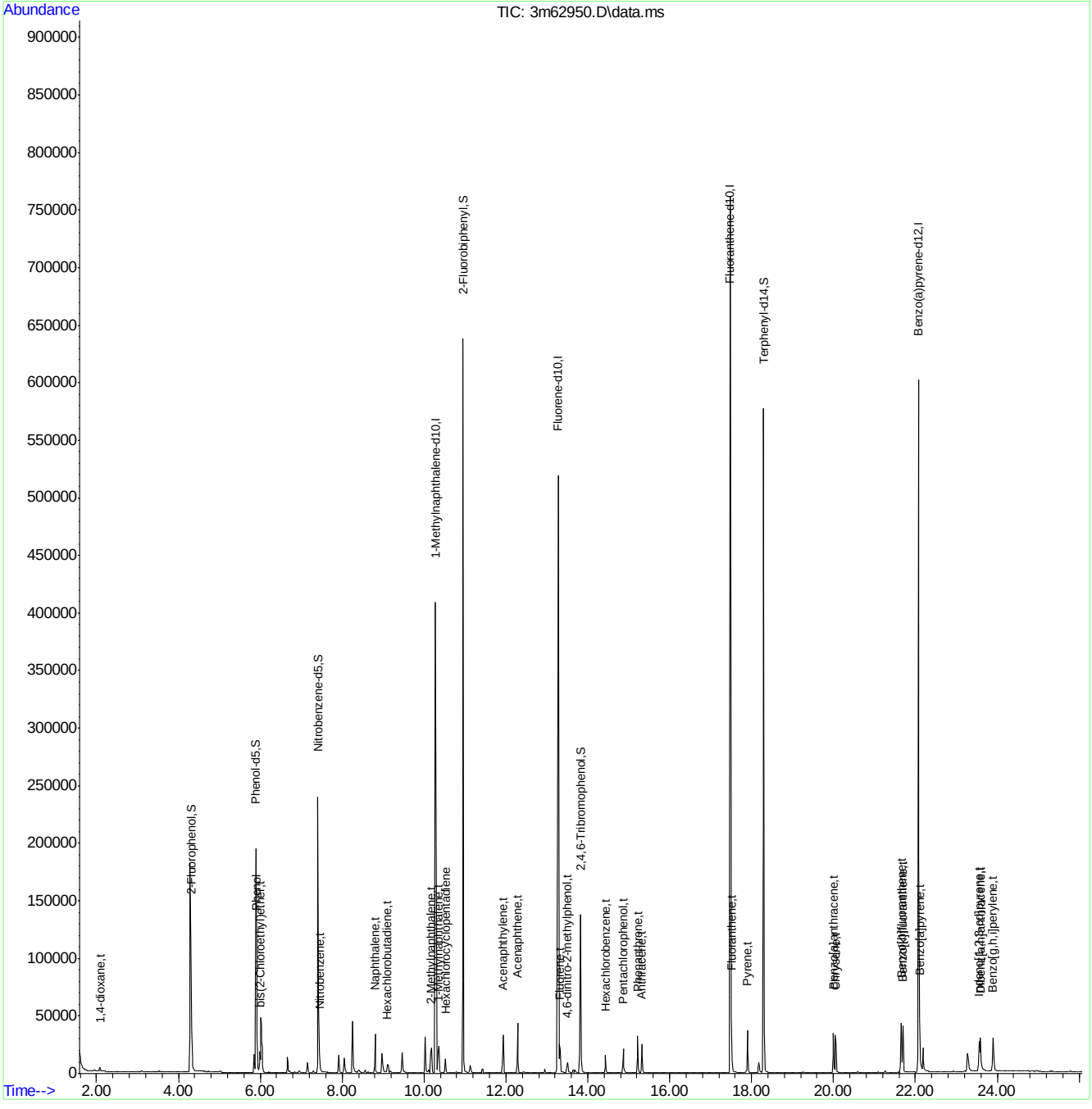
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62950.D
Acq On : 14 Jul 2016 10:23 am
Operator : ashleyd
Sample : ic2975-0.2
Misc : op95160a,e3m2975
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:26:25 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62951.D
Acq On : 14 Jul 2016 10:55 am
Operator : ashleyd
Sample : ic2975-0.1
Misc : op95160a,e3m2975
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 15:27:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.282	150	307580	4.00	ppm		0.00
14) Fluorene-d10	13.275	176	486308	4.00	ppm		0.00
21) Fluoranthene-d10	17.479	212	849737	4.00	ppm		0.00
31) Benzo(a)pyrene-d12	22.070	264	762984	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	4.307	112	81172	1.72	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.44%		
4) Phenol-d5	5.903	99	120628	1.70	ppm		0.01
Spiked Amount 50.000			Recovery	=	3.40%		
7) Nitrobenzene-d5	7.410	82	113912	1.67	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.34%		
15) 2-Fluorobiphenyl	10.958	172	277958	1.81	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.62%		
20) 2,4,6-Tribromophenol	13.822	330	34684	1.64	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.28%		
28) Terphenyl-d14	18.298	244	243933	1.75	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.50%		
Target Compounds							Qvalue
2) 1,4-dioxane	2.097	88	1717	0.09	ppm		75
5) Phenol	5.915	94	32525	0.44	ppm	#	78
6) bis(2-Chloroethyl)ether	5.988	93	4944	0.09	ppm		74
8) Nitrobenzene	7.448	77	6217	0.09	ppm		89
9) Naphthalene	8.803	128	17470	0.09	ppm		98
10) Hexachlorobutadiene	9.123	225	3112	0.09	ppm	#	59
11) 2-Methylnaphthalene	10.179	141	8271	0.08	ppm		92
12) 1-Methylnaphthalene	10.364	141	9466	0.09	ppm		97
13) Hexachlorocyclopentadiene	10.528	237	2941	0.12	ppm		99
16) Acenaphthylene	11.931	152	15281	0.09	ppm		99
17) Acenaphthene	12.287	153	10239	0.09	ppm		99
18) 4,6-dinitro-2-methylph...	13.501	198	3012	0.27	ppm	#	68
19) Fluorene	13.313	166	11553	0.09	ppm		98
22) Hexachlorobenzene	14.434	284	4350	0.09	ppm		98
23) Pentachlorophenol	14.867	266	3824	0.22	ppm		92
24) Phenanthrene	15.222	178	16617	0.09	ppm		99
25) Anthracene	15.315	178	14062	0.08	ppm		99
26) Fluoranthene	17.510	202	21581	0.09	ppm		99
27) Pyrene	17.896	202	19367	0.09	ppm		99
29) Benzo[a]anthracene	19.997	228	15815	0.08	ppm		100
30) Chrysene	20.044	228	16857	0.08	ppm		98
32) Benzo[b]fluoranthene	21.657	252	21246	0.08	ppm		97
33) Benzo[k]fluoranthene	21.694	252	17962	0.08	ppm		99
34) Benzo[a]pyrene	22.108	252	20682	0.09	ppm		98
35) Indeno[1,2,3-cd]pyrene	23.556	276	19077	0.08	ppm		99
36) Dibenz[a,h]anthracene	23.594	278	15514	0.08	ppm		99
37) Benzo[g,h,i]perylene	23.895	276	18899	0.09	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62951.D
Acq On : 14 Jul 2016 10:55 am
Operator : ashleyd
Sample : ic2975-0.1
Misc : op95160a,e3m2975
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 15:27:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:05 2016
Response via : Initial Calibration

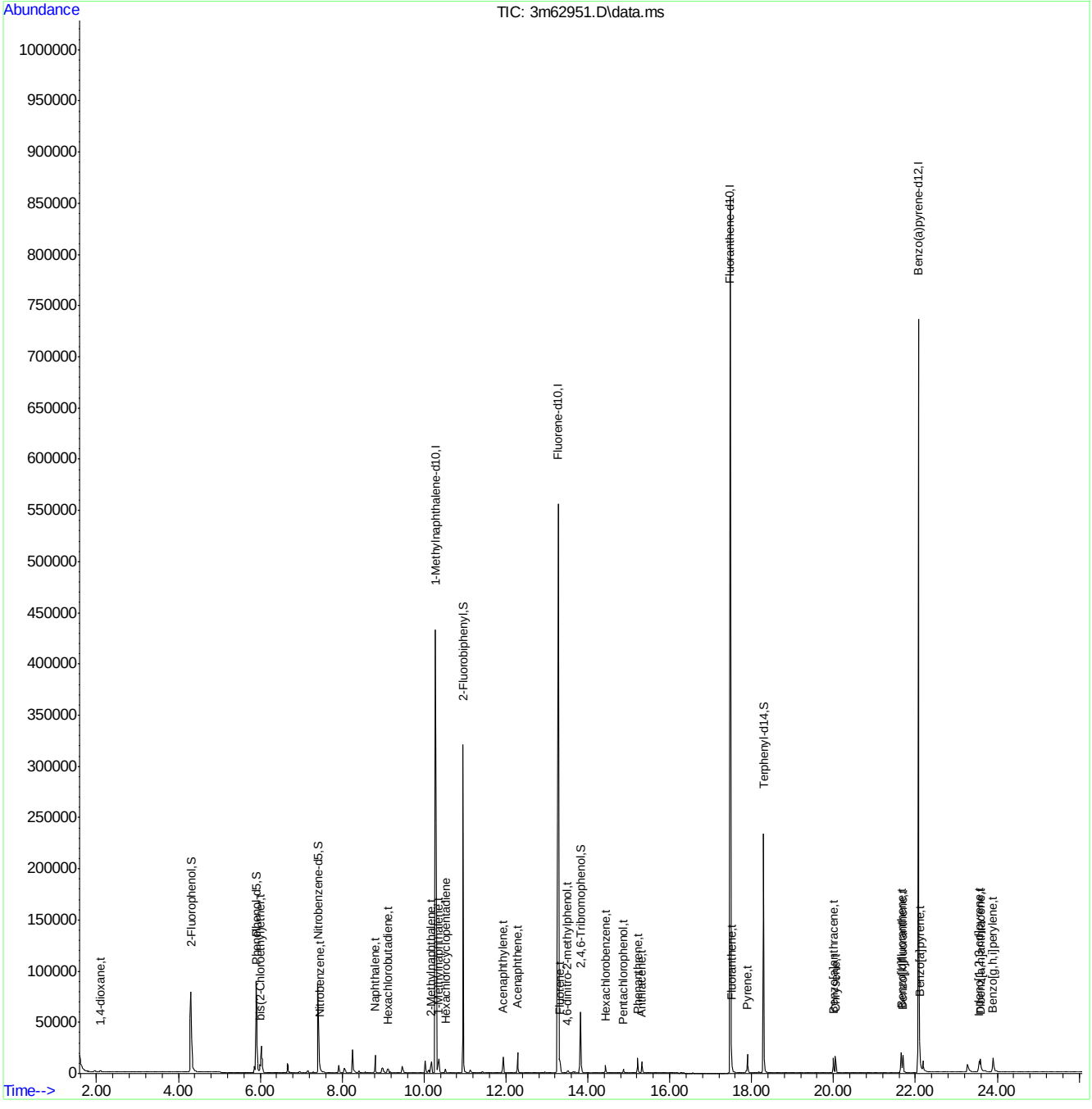
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62951.D
Acq On : 14 Jul 2016 10:55 am
Operator : ashleyd
Sample : ic2975-0.1
Misc : op95160a,e3m2975
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 15:27:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62952.D
Acq On : 14 Jul 2016 11:28 am
Operator : ashleyd
Sample : ic2975-0.05
Misc : op95160a,e3m2975
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 15:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.281	150	364800	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	586816	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1040150	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.070	264	912640	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.306	112	48304	0.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.86%	
4) Phenol-d5	5.903	99	70547	0.91	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.82%	
7) Nitrobenzene-d5	7.410	82	62689	0.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.70%	
15) 2-Fluorobiphenyl	10.958	172	171779	0.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.94%	
20) 2,4,6-Tribromophenol	13.822	330	19313	0.76	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.52%	
28) Terphenyl-d14	18.298	244	142787	0.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.78%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	1052	0.05	ppm	96
5) Phenol	5.915	94	18865	0.23	ppm #	89
6) bis(2-Chloroethyl)ether	6.000	93	2872	0.05	ppm	51
8) Nitrobenzene	7.448	77	3299	0.04	ppm	95
9) Naphthalene	8.803	128	10390	0.05	ppm	99
10) Hexachlorobutadiene	9.123	225	1864	0.05	ppm	100
11) 2-Methylnaphthalene	10.179	141	6008	0.05	ppm	99
12) 1-Methylnaphthalene	10.364	141	5959	0.05	ppm	98
13) Hexachlorocyclopentadiene	10.528	237	1290	0.05	ppm	97
16) Acenaphthylene	11.931	152	9187	0.05	ppm	99
17) Acenaphthene	12.286	153	6220	0.05	ppm	100
18) 4,6-dinitro-2-methylph...	13.501	198	2051	0.20	ppm #	80
19) Fluorene	13.313	166	7041	0.05	ppm	100
22) Hexachlorobenzene	14.434	284	2649	0.05	ppm	99
23) Pentachlorophenol	14.867	266	2622	0.17	ppm	97
24) Phenanthrene	15.222	178	9959	0.05	ppm	99
25) Anthracene	15.315	178	8858	0.05	ppm	99
26) Fluoranthene	17.510	202	14136	0.05	ppm	99
27) Pyrene	17.896	202	11496	0.04	ppm	99
29) Benzo[a]anthracene	19.997	228	8956	0.04	ppm	99
30) Chrysene	20.044	228	11074	0.05	ppm	98
32) Benzo[b]fluoranthene	21.657	252	11950	0.04	ppm	99
33) Benzo[k]fluoranthene	21.694	252	10807	0.04	ppm	99
34) Benzo[a]pyrene	22.108	252	14204	0.05	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.556	276	10836	0.04	ppm	99
36) Dibenz[a,h]anthracene	23.594	278	8934	0.04	ppm	87
37) Benzo[g,h,i]perylene	23.895	276	10723	0.04	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62952.D
Acq On : 14 Jul 2016 11:28 am
Operator : ashleyd
Sample : ic2975-0.05
Misc : op95160a,e3m2975
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 15:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:34 2016
Response via : Initial Calibration

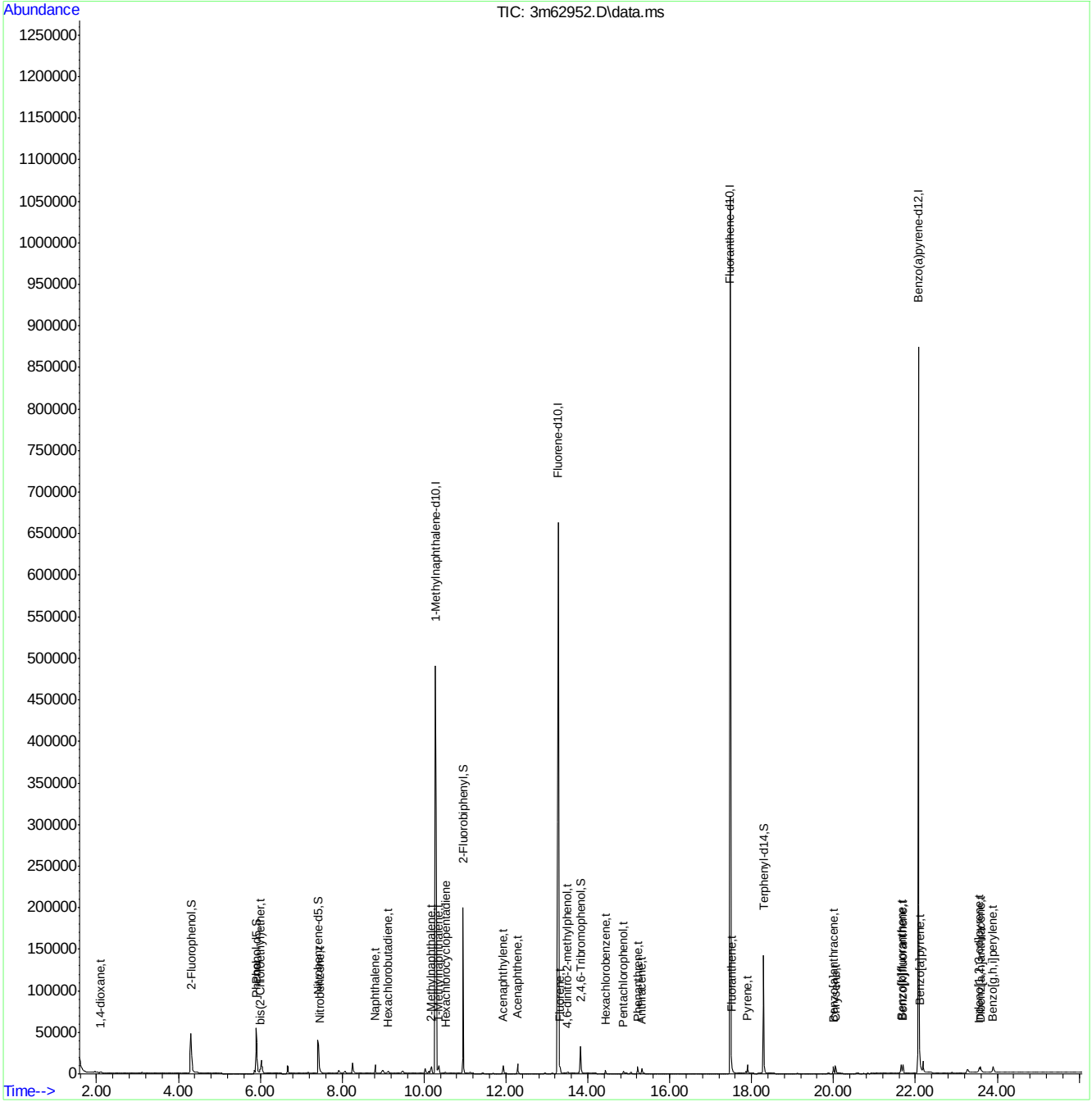
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62952.D
Acq On : 14 Jul 2016 11:28 am
Operator : ashleyd
Sample : ic2975-0.05
Misc : op95160a,e3m2975
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 15:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:34 2016
Response via : Initial Calibration



M3M2975SIM.M Thu Jul 14 15:27:59 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62953.D
Acq On : 14 Jul 2016 12:01 pm
Operator : ashleyd
Sample : ic2975-0.02
Misc : op95160a,e3m2975
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.282	150	291842	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	473899	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	805807	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	720786	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	14299	0.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.70%	
4) Phenol-d5	5.903	99	20010	0.33	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.66%	
7) Nitrobenzene-d5	7.429	82	17337	0.31	ppm	0.02
Spiked Amount 50.000			Recovery	=	0.62%	
15) 2-Fluorobiphenyl	10.958	172	53471	0.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.76%	
20) 2,4,6-Tribromophenol	13.822	330	5149	0.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.50%	
28) Terphenyl-d14	18.298	244	43176	0.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.70%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	320	0.02	ppm	98
5) Phenol	5.928	94	5591	0.09	ppm #	86
6) bis(2-Chloroethyl)ether	6.000	93	825	0.02	ppm	88
8) Nitrobenzene	7.448	77	931	0.02	ppm	91
9) Naphthalene	8.803	128	3353	0.02	ppm	99
10) Hexachlorobutadiene	9.124	225	596	0.02	ppm	95
11) 2-Methylnaphthalene	10.179	141	2901	0.03	ppm	97
12) 1-Methylnaphthalene	10.364	141	1975	0.02	ppm	94
13) Hexachlorocyclopentadiene	10.528	237	153	0.01	ppm	89
16) Acenaphthylene	11.931	152	2827	0.02	ppm	99
17) Acenaphthene	12.287	153	1933	0.02	ppm	96
18) 4,6-dinitro-2-methylph...	13.520	198	779	0.09	ppm	93
19) Fluorene	13.332	166	2272	0.02	ppm	73
22) Hexachlorobenzene	14.434	284	859	0.02	ppm	99
23) Pentachlorophenol	14.882	266	1098	0.10	ppm	87
24) Phenanthrene	15.222	178	3123	0.02	ppm	98
25) Anthracene	15.331	178	2803	0.02	ppm	90
26) Fluoranthene	17.510	202	4857	0.02	ppm	98
27) Pyrene	17.896	202	3541	0.02	ppm	99
29) Benzo[a]anthracene	19.997	228	2587	0.02	ppm	99
30) Chrysene	20.044	228	3492	0.02	ppm	99
32) Benzo[b]fluoranthene	21.657	252	3586	0.02	ppm	97
33) Benzo[k]fluoranthene	21.694	252	3496	0.02	ppm	97
35) Indeno[1,2,3-cd]pyrene	23.557	276	3456	0.02	ppm	98
36) Dibenz[a,h]anthracene	23.594	278	2772	0.02	ppm	97
37) Benzo[g,h,i]perylene	23.895	276	3398	0.02	ppm	100

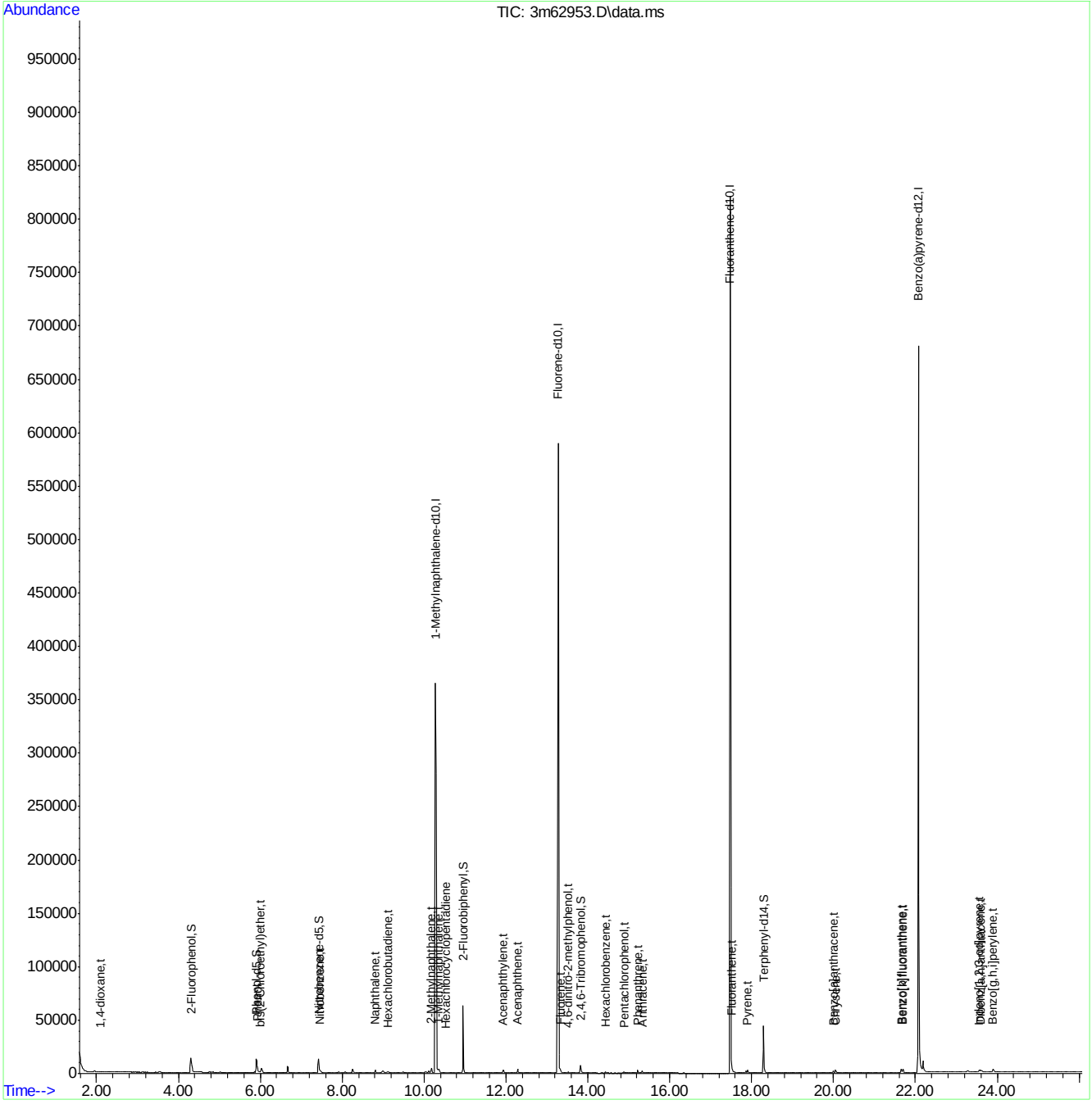
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62953.D
Acq On : 14 Jul 2016 12:01 pm
Operator : ashleyd
Sample : ic2975-0.02
Misc : op95160a,e3m2975
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62954.D
Acq On : 14 Jul 2016 12:34 pm
Operator : ashleyd
Sample : ic2975-0.01
Misc : op95160a,e3m2975
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 14 15:28:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.281	150	286676	4.00 ppm	0.00
14) Fluorene-d10	13.275	176	465149	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	822792	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.070	264	710813	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.306	112	6385	0.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.32%	
4) Phenol-d5	5.903	99	8853	0.15 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.30%	
7) Nitrobenzene-d5	7.429	82	8648	0.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.32%	
15) 2-Fluorobiphenyl	10.958	172	25237	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
20) 2,4,6-Tribromophenol	13.822	330	2153	0.11 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.22%	
28) Terphenyl-d14	18.298	244	20344	0.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.32%	
Target Compounds					Qvalue
5) Phenol	5.927	94	2320	0.04 ppm #	70
6) bis(2-Chloroethyl)ether	6.000	93	340	0.01 ppm	75
8) Nitrobenzene	7.466	77	432	0.01 ppm	66
9) Naphthalene	8.803	128	1600	0.01 ppm	99
10) Hexachlorobutadiene	9.123	225	296	0.01 ppm	97
11) 2-Methylnaphthalene	10.179	141	2216	0.02 ppm	97
12) 1-Methylnaphthalene	10.363	141	982	0.01 ppm	98
16) Acenaphthylene	11.931	152	1368	0.01 ppm	99
17) Acenaphthene	12.286	153	926	0.01 ppm	99
18) 4,6-dinitro-2-methylph...	13.520	198	584	0.07 ppm	85
22) Hexachlorobenzene	14.434	284	415	0.01 ppm	99
23) Pentachlorophenol	14.882	266	730	0.07 ppm	96
24) Phenanthrene	15.222	178	1543	0.01 ppm	98
25) Anthracene	15.330	178	1263	0.01 ppm	98
26) Fluoranthene	17.510	202	2762	0.01 ppm	98
27) Pyrene	17.896	202	1675	0.01 ppm	97
29) Benzo[a]anthracene	19.997	228	1263	0.01 ppm	99
30) Chrysene	20.059	228	1687	0.01 ppm	88
32) Benzo[b]fluoranthene	21.657	252	1655	0.01 ppm	97
33) Benzo[k]fluoranthene	21.694	252	1846	0.01 ppm	98
35) Indeno[1,2,3-cd]pyrene	23.556	276	1735	0.01 ppm	95
36) Dibenz[a,h]anthracene	23.594	278	1381	0.01 ppm	89
37) Benzo[g,h,i]perylene	23.895	276	1714	0.01 ppm	98

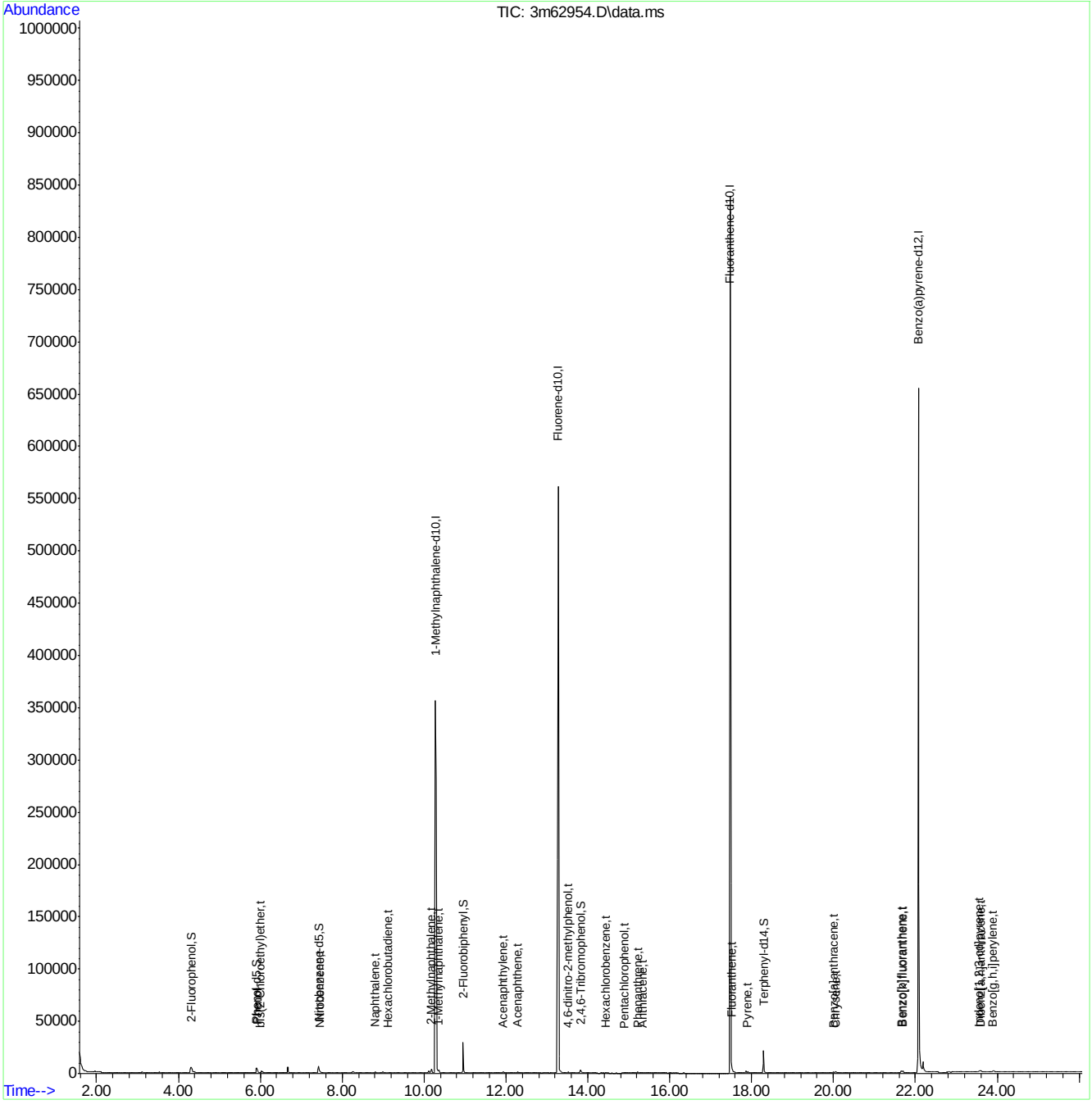
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62954.D
Acq On : 14 Jul 2016 12:34 pm
Operator : ashleyd
Sample : ic2975-0.01
Misc : op95160a,e3m2975
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 14 15:28:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62955.D
Acq On : 14 Jul 2016 1:07 pm
Operator : ashleyd
Sample : ic2975-5.0
Misc : op95160a,e3m2975
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 15:29:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	302894	4.00	ppm	0.02
14) Fluorene-d10	13.275	176	574117	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	860727	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	717014	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	4318750	102.43	ppm	0.00
Spiked Amount 50.000			Recovery	=	204.86%	
4) Phenol-d5	5.915	99	6082736	97.23	ppm	0.01
Spiked Amount 50.000			Recovery	=	194.46%	
7) Nitrobenzene-d5	7.429	82	6179269	105.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	211.62%	
15) 2-Fluorobiphenyl	10.979	172	13432150	80.85	ppm	0.02
Spiked Amount 50.000			Recovery	=	161.70%	
20) 2,4,6-Tribromophenol	13.841	330	2407229	96.22	ppm	0.02
Spiked Amount 50.000			Recovery	=	192.44%	
28) Terphenyl-d14	18.313	244	11677007	88.24	ppm	0.02
Spiked Amount 50.000			Recovery	=	176.48%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.081	88	83949	4.64	ppm #	20
5) Phenol	5.928	94	1592767	24.74	ppm #	61
6) bis(2-Chloroethyl)ether	6.000	93	254030	5.51	ppm #	78
8) Nitrobenzene	7.448	77	332950	5.93	ppm #	57
9) Naphthalene	8.804	128	904046	5.12	ppm	99
10) Hexachlorobutadiene	9.124	225	160067	5.09	ppm	97
11) 2-Methylnaphthalene	10.179	141	459838	4.90	ppm	93
12) 1-Methylnaphthalene	10.364	141	508067	5.07	ppm	97
13) Hexachlorocyclopentadiene	10.528	237	366074	18.74	ppm	85
16) Acenaphthylene	11.931	152	956438	5.17	ppm	99
17) Acenaphthene	12.287	153	598218	4.87	ppm	98
18) 4,6-dinitro-2-methylph...	13.502	198	596329	59.04	ppm #	58
19) Fluorene	13.332	166	654861	4.64	ppm	99
22) Hexachlorobenzene	14.434	284	223993	4.97	ppm	95
23) Pentachlorophenol	14.867	266	635745	56.14	ppm	94
24) Phenanthrene	15.222	178	985853	5.59	ppm	98
25) Anthracene	15.315	178	974752	6.20	ppm	91
26) Fluoranthene	17.510	202	1158185	5.01	ppm	98
27) Pyrene	17.896	202	1178028	5.73	ppm	98
29) Benzo[a]anthracene	19.998	228	1046106	6.16	ppm	99
30) Chrysene	20.044	228	1001850	5.36	ppm	87
32) Benzo[b]fluoranthene	21.657	252	1192553	5.41	ppm	98
33) Benzo[k]fluoranthene	21.694	252	1069373	5.59	ppm	98
34) Benzo[a]pyrene	22.108	252	1038380	4.91	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.557	276	1179649	5.87	ppm	98
36) Dibenz[a,h]anthracene	23.594	278	987225	6.02	ppm	84
37) Benzo[g,h,i]perylene	23.895	276	955285	5.00	ppm	99

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62955.D
Acq On : 14 Jul 2016 1:07 pm
Operator : ashleyd
Sample : ic2975-5.0
Misc : op95160a,e3m2975
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 15:29:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:56 2016
Response via : Initial Calibration

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

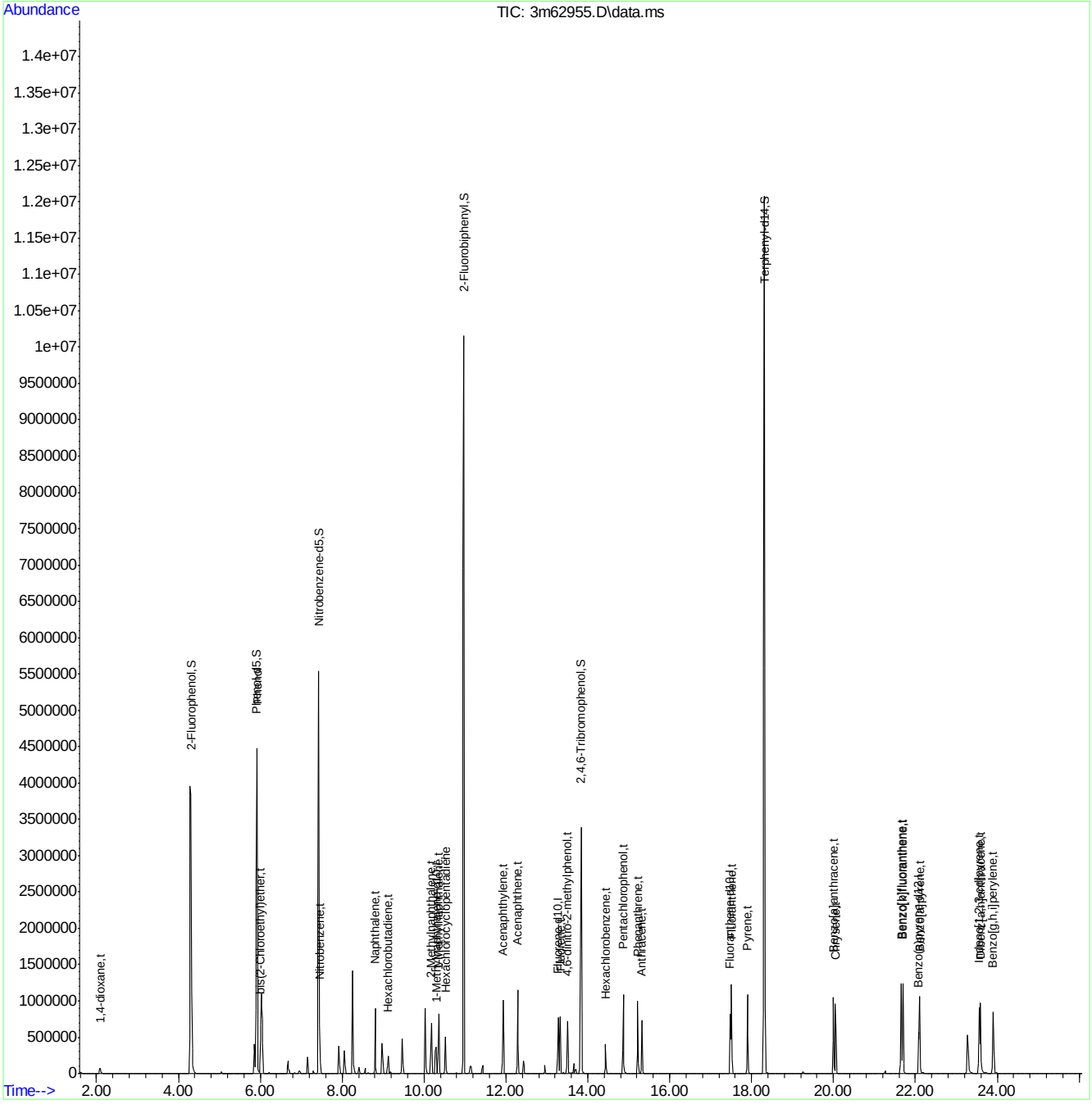
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62955.D
Acq On : 14 Jul 2016 1:07 pm
Operator : ashleyd
Sample : ic2975-5.0
Misc : op95160a,e3m2975
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 15:29:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62956.D
Acq On : 14 Jul 2016 1:40 pm
Operator : ashleyd
Sample : ic2975-2.5
Misc : op95160a,e3m2975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 15:29:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	285610	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	507003	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	780744	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.070	264	647332	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	1983802	49.60	ppm	0.00
Spiked Amount 50.000			Recovery = 99.20%			
4) Phenol-d5	5.903	99	2905488	49.60	ppm	-0.01
Spiked Amount 50.000			Recovery = 99.20%			
7) Nitrobenzene-d5	7.410	82	2634312	47.15	ppm	-0.02
Spiked Amount 50.000			Recovery = 94.30%			
15) 2-Fluorobiphenyl	10.958	172	5099733	34.76	ppm	-0.02
Spiked Amount 50.000			Recovery = 69.52%			
20) 2,4,6-Tribromophenol	13.822	330	958511	44.22	ppm	-0.02
Spiked Amount 50.000			Recovery = 88.44%			
28) Terphenyl-d14	18.298	244	5685434	49.30	ppm	-0.02
Spiked Amount 50.000			Recovery = 98.60%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	36776	2.21	ppm #	49
5) Phenol	5.915	94	777392	12.83	ppm	94
6) bis(2-Chloroethyl)ether	6.000	93	119739	2.71	ppm #	46
8) Nitrobenzene	7.448	77	157465	2.89	ppm	81
9) Naphthalene	8.803	128	423455	2.53	ppm	100
10) Hexachlorobutadiene	9.124	225	73731	2.48	ppm	98
11) 2-Methylnaphthalene	10.179	141	218761	2.48	ppm	95
12) 1-Methylnaphthalene	10.364	141	238134	2.51	ppm	99
13) Hexachlorocyclopentadiene	10.528	237	155288	6.53	ppm	98
16) Acenaphthylene	11.931	152	434834	2.65	ppm	100
17) Acenaphthene	12.287	153	273677	2.53	ppm	100
18) 4,6-dinitro-2-methylph...	13.501	198	284805	21.96	ppm #	46
19) Fluorene	13.332	166	294196	2.40	ppm	98
22) Hexachlorobenzene	14.434	284	104325	2.56	ppm	99
23) Pentachlorophenol	14.867	266	252598	18.75	ppm	96
24) Phenanthrene	15.222	178	448657	2.73	ppm	99
25) Anthracene	15.315	178	445790	2.89	ppm	100
26) Fluoranthene	17.510	202	536138	2.55	ppm	100
27) Pyrene	17.896	202	544179	2.81	ppm	99
29) Benzo[a]anthracene	19.997	228	458604	2.81	ppm	100
30) Chrysene	20.044	228	455740	2.64	ppm	100
32) Benzo[b]fluoranthene	21.657	252	551382	2.70	ppm	99
33) Benzo[k]fluoranthene	21.694	252	471150	2.62	ppm	98
34) Benzo[a]pyrene	22.108	252	473725	2.48	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.557	276	516726	2.69	ppm	99
36) Dibenz[a,h]anthracene	23.594	278	434078	2.74	ppm	98
37) Benzo[g,h,i]perylene	23.895	276	455460	2.64	ppm	100

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62956.D
Acq On : 14 Jul 2016 1:40 pm
Operator : ashleyd
Sample : ic2975-2.5
Misc : op95160a,e3m2975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 15:29:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:21 2016
Response via : Initial Calibration

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

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

7.6.7

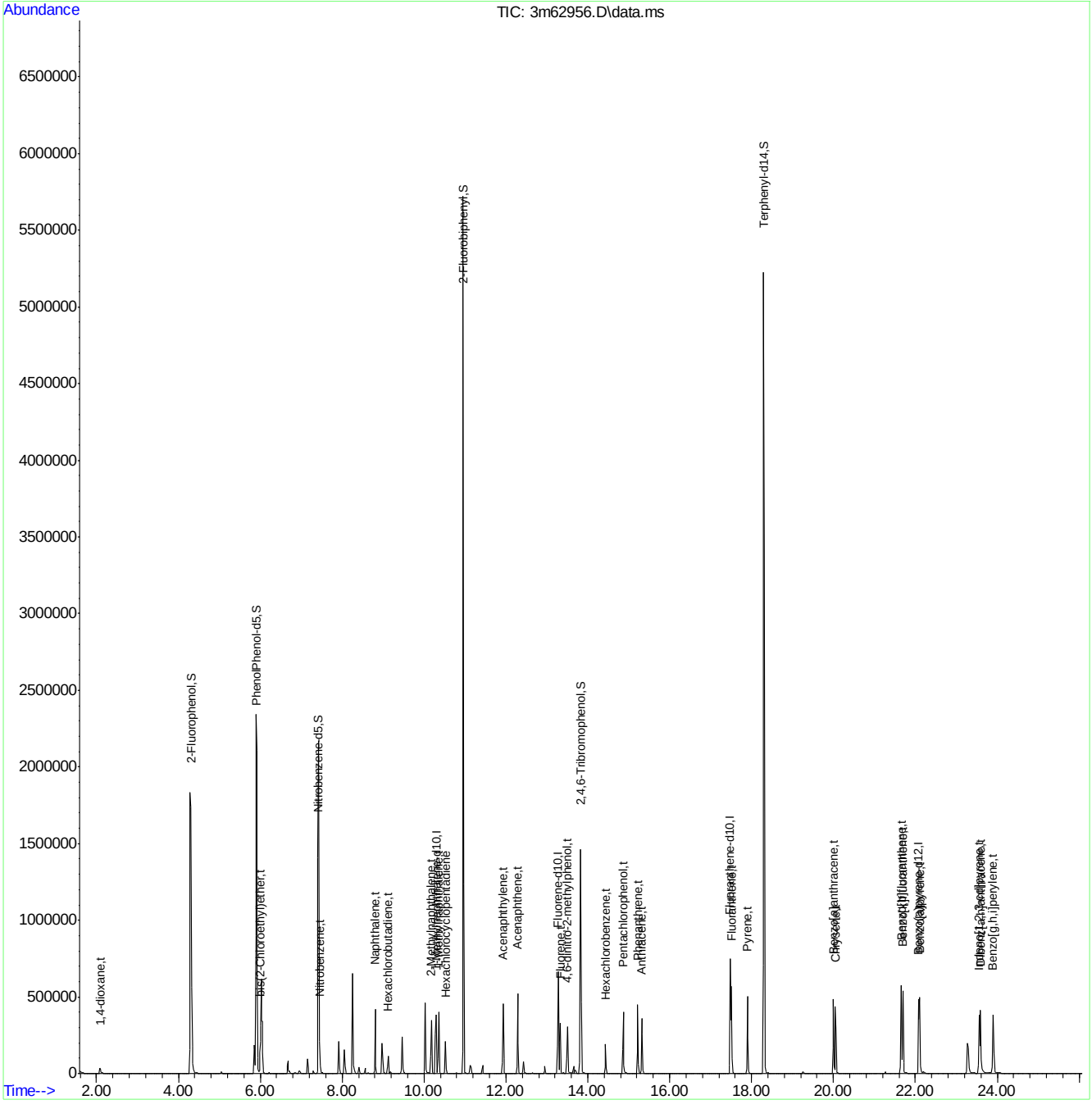
7

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62956.D
Acq On : 14 Jul 2016 1:40 pm
Operator : ashleyd
Sample : ic2975-2.5
Misc : op95160a,e3m2975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 15:29:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:21 2016
Response via : Initial Calibration



M3M2975SIM.M Thu Jul 14 15:29:43 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62957.D
Acq On : 14 Jul 2016 2:13 pm
Operator : ashleyd
Sample : icc2975-1.0
Misc : op95160a,e3m2975
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 15:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	228297	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	373616	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	574048	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.070	264	465703	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	621771	19.48	ppm	0.00
Spiked Amount 50.000			Recovery = 38.96%			
4) Phenol-d5	5.903	99	946661	20.25	ppm	0.00
Spiked Amount 50.000			Recovery = 40.50%			
7) Nitrobenzene-d5	7.410	82	884109	20.03	ppm	0.00
Spiked Amount 50.000			Recovery = 40.06%			
15) 2-Fluorobiphenyl	10.958	172	1961530	19.11	ppm	0.00
Spiked Amount 50.000			Recovery = 38.22%			
20) 2,4,6-Tribromophenol	13.822	330	317780	20.69	ppm	0.00
Spiked Amount 50.000			Recovery = 41.38%			
28) Terphenyl-d14	18.298	244	1844889	21.83	ppm	0.00
Spiked Amount 50.000			Recovery = 43.66%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	11914	0.92	ppm	93
5) Phenol	5.915	94	249953	5.14	ppm #	78
6) bis(2-Chloroethyl)ether	6.000	93	38215	1.07	ppm	82
8) Nitrobenzene	7.448	77	45371	1.02	ppm	95
9) Naphthalene	8.803	128	131390	0.98	ppm	100
10) Hexachlorobutadiene	9.123	225	24161	1.02	ppm	97
11) 2-Methylnaphthalene	10.179	141	68399	0.97	ppm	98
12) 1-Methylnaphthalene	10.364	141	76266	1.01	ppm	98
13) Hexachlorocyclopentadiene	10.528	237	38119	1.86	ppm	97
16) Acenaphthylene	11.931	152	127625	1.04	ppm	99
17) Acenaphthene	12.286	153	82317	1.03	ppm	97
18) 4,6-dinitro-2-methylph...	13.501	198	67675	5.95	ppm	97
19) Fluorene	13.332	166	89586	1.00	ppm	98
22) Hexachlorobenzene	14.434	284	32412	1.08	ppm	98
23) Pentachlorophenol	14.867	266	59091	5.42	ppm	94
24) Phenanthrene	15.222	178	138217	1.12	ppm	99
25) Anthracene	15.331	178	126386	1.07	ppm	89
26) Fluoranthene	17.510	202	159695	1.03	ppm	100
27) Pyrene	17.896	202	155527	1.07	ppm	98
29) Benzo[a]anthracene	19.997	228	127746	1.04	ppm	97
30) Chrysene	20.059	228	137402	1.07	ppm	84
32) Benzo[b]fluoranthene	21.657	252	155244	1.03	ppm	97
33) Benzo[k]fluoranthene	21.694	252	151903	1.16	ppm	98
34) Benzo[a]pyrene	22.108	252	140752	1.03	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.556	276	146193	1.04	ppm	99
36) Dibenz[a,h]anthracene	23.594	278	122655	1.05	ppm	96
37) Benzo[g,h,i]perylene	23.895	276	135161	1.07	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62957.D
Acq On : 14 Jul 2016 2:13 pm
Operator : ashleyd
Sample : icc2975-1.0
Misc : op95160a,e3m2975
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 15:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:47 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

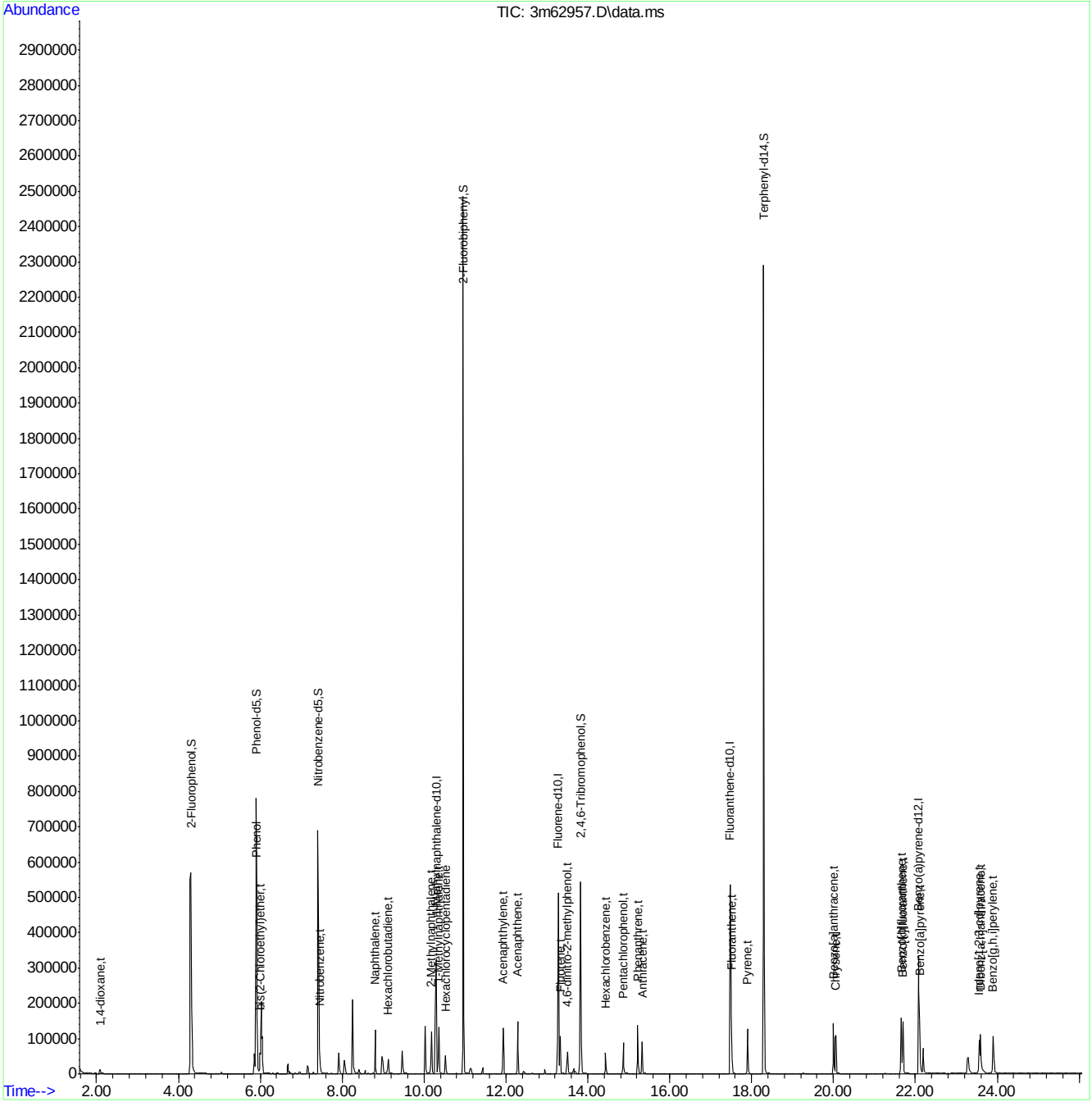
7

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62957.D
Acq On : 14 Jul 2016 2:13 pm
Operator : ashleyd
Sample : icc2975-1.0
Misc : op95160a,e3m2975
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 15:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62958.D
Acq On : 14 Jul 2016 2:47 pm
Operator : ashleyd
Sample : ic2975-0.5
Misc : op95160a,e3m2975
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 15:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:30:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	230723	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	358418	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	570136	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	456885	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	320713	9.98	ppm	0.00
Spiked Amount 50.000			Recovery = 19.96%			
4) Phenol-d5	5.903	99	483395	10.21	ppm	0.00
Spiked Amount 50.000			Recovery = 20.42%			
7) Nitrobenzene-d5	7.410	82	443910	9.95	ppm	0.00
Spiked Amount 50.000			Recovery = 19.90%			
15) 2-Fluorobiphenyl	10.958	172	1068117	10.92	ppm	0.00
Spiked Amount 50.000			Recovery = 21.84%			
20) 2,4,6-Tribromophenol	13.822	330	155369	10.46	ppm	0.00
Spiked Amount 50.000			Recovery = 20.92%			
28) Terphenyl-d14	18.298	244	947200	11.08	ppm	0.00
Spiked Amount 50.000			Recovery = 22.16%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	5941	0.46	ppm	96
5) Phenol	5.915	94	127606	2.59	ppm	97
6) bis(2-Chloroethyl)ether	6.000	93	19319	0.53	ppm	96
8) Nitrobenzene	7.448	77	22596	0.50	ppm	97
9) Naphthalene	8.803	128	67693	0.50	ppm	99
10) Hexachlorobutadiene	9.124	225	12542	0.52	ppm	99
11) 2-Methylnaphthalene	10.179	141	34939	0.49	ppm	97
12) 1-Methylnaphthalene	10.364	141	40136	0.52	ppm	97
13) Hexachlorocyclopentadiene	10.528	237	16452	0.81	ppm	99
16) Acenaphthylene	11.931	152	62095	0.53	ppm	99
17) Acenaphthene	12.287	153	41062	0.53	ppm	100
18) 4,6-dinitro-2-methylph...	13.501	198	25163	2.22	ppm	88
19) Fluorene	13.332	166	45274	0.53	ppm	99
22) Hexachlorobenzene	14.434	284	16559	0.55	ppm	100
23) Pentachlorophenol	14.867	266	22569	2.06	ppm	96
24) Phenanthrene	15.222	178	67150	0.54	ppm	99
25) Anthracene	15.331	178	60580	0.51	ppm	99
26) Fluoranthene	17.510	202	81489	0.53	ppm	100
27) Pyrene	17.896	202	75908	0.52	ppm	99
29) Benzo[a]anthracene	19.997	228	60028	0.49	ppm	100
30) Chrysene	20.059	228	65707	0.51	ppm	99
32) Benzo[b]fluoranthene	21.657	252	74987	0.51	ppm	99
33) Benzo[k]fluoranthene	21.694	252	73383	0.55	ppm	100
34) Benzo[a]pyrene	22.108	252	73339	0.54	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.557	276	69465	0.50	ppm	99
36) Dibenz[a,h]anthracene	23.594	278	57966	0.50	ppm	96
37) Benzo[g,h,i]perylene	23.895	276	66291	0.53	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62958.D
Acq On : 14 Jul 2016 2:47 pm
Operator : ashleyd
Sample : ic2975-0.5
Misc : op95160a,e3m2975
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 15:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:30:15 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

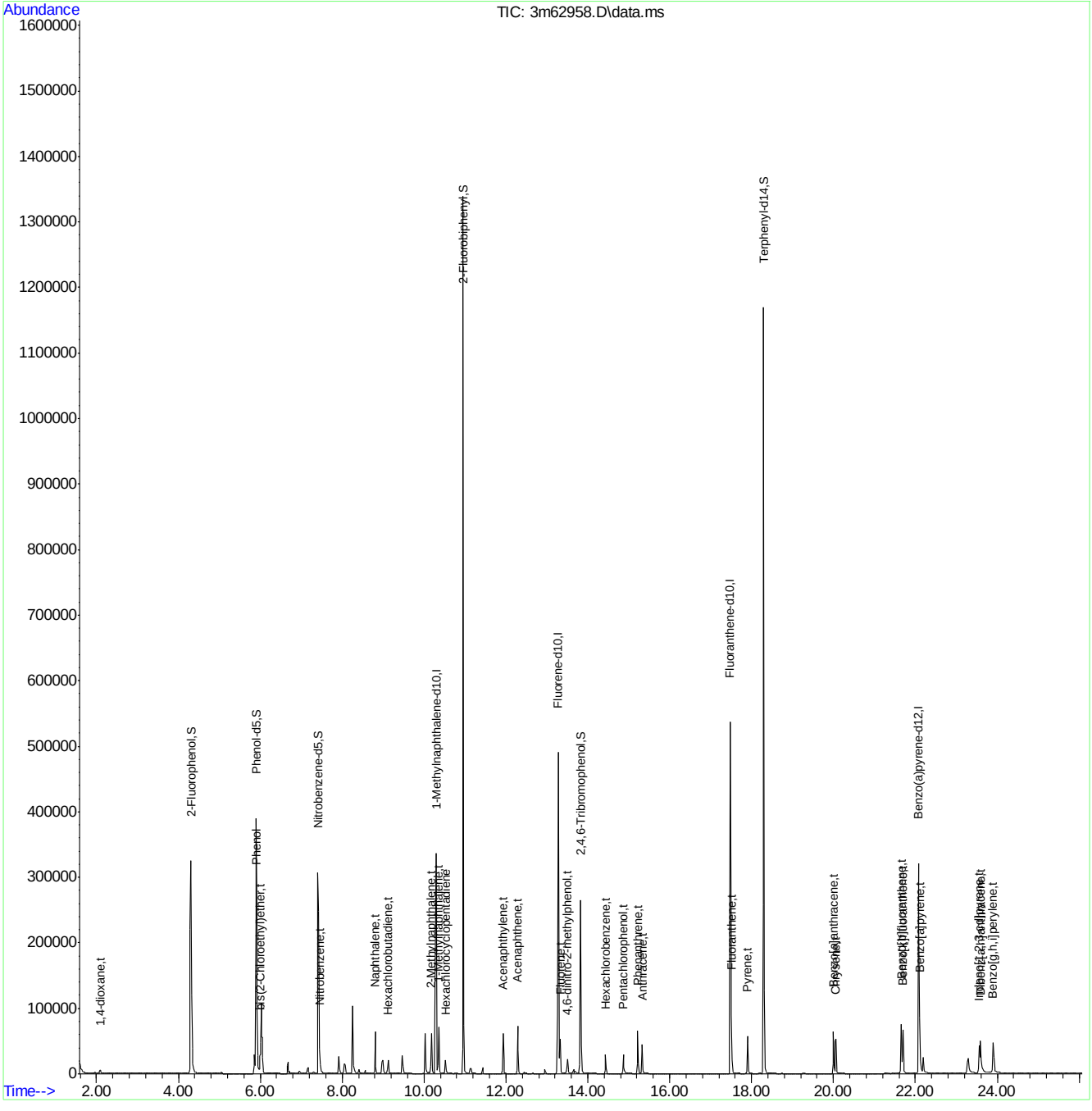
7

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62958.D
Acq On : 14 Jul 2016 2:47 pm
Operator : ashleyd
Sample : ic2975-0.5
Misc : op95160a,e3m2975
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 15:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:30:15 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62962.D
Acq On : 14 Jul 2016 5:18 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 17:53:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.282	150	326153	4.00	ppm	-0.02
14) Fluorene-d10	13.256	176	408071	4.00	ppm	-0.02
21) Fluoranthene-d10	17.463	212	674609	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.052	264	535649	4.00	ppm	-0.02
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
5) Phenol	5.915	94	292261	4.17	ppm	# 65
18) 4,6-dinitro-2-methylph...	13.483	198	63251	4.49	ppm	80
23) Pentachlorophenol	14.851	266	89609	5.89	ppm	98

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

7.6.10

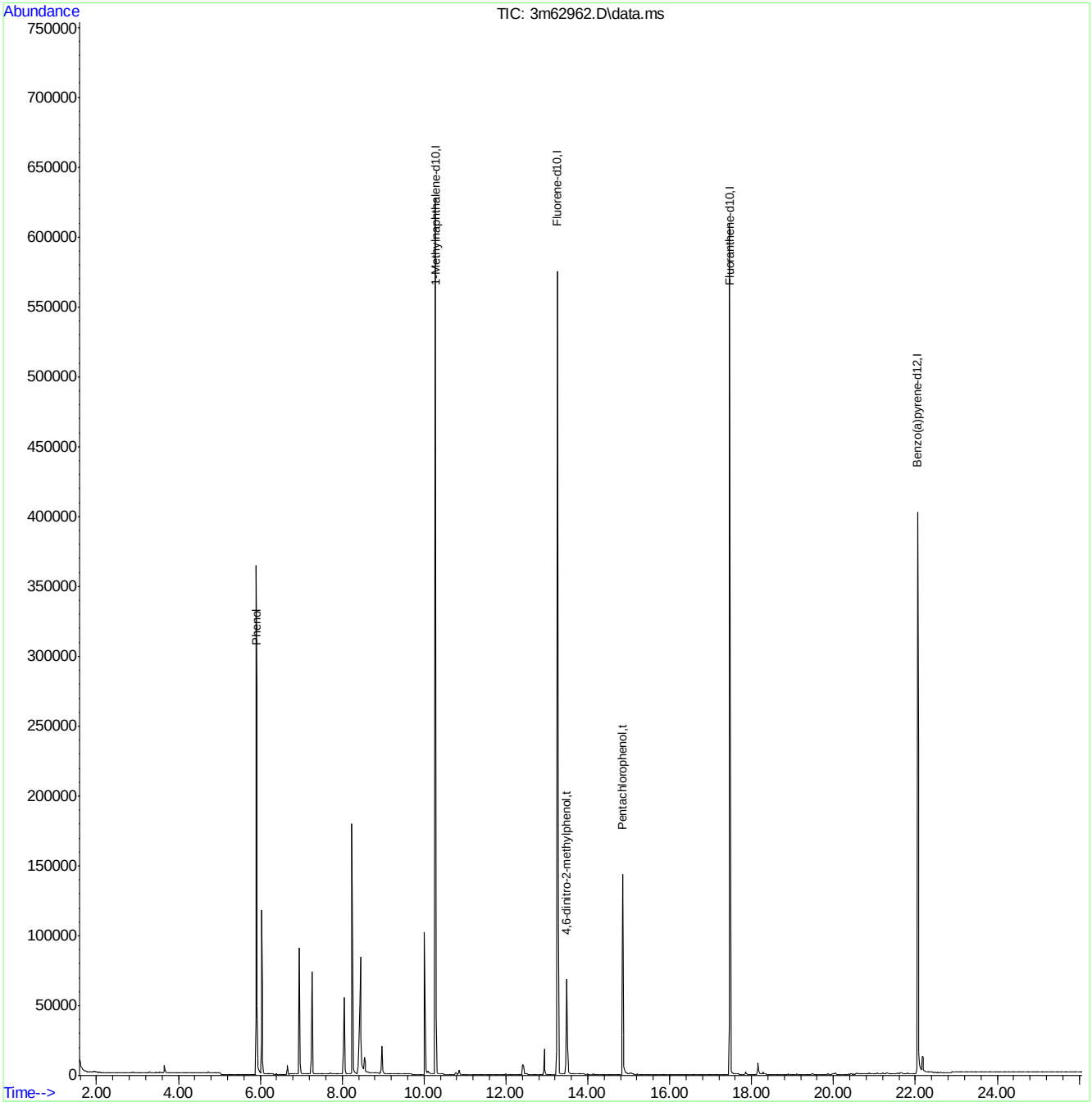
7

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62962.D
Acq On : 14 Jul 2016 5:18 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 17:53:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration



M3M2975SIM.M Thu Jul 14 17:53:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62963.D
Acq On : 14 Jul 2016 5:51 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 18:16:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.281	150	300470	4.00	ppm	-0.02
14) Fluorene-d10	13.256	176	378084	4.00	ppm	-0.02
21) Fluoranthene-d10	17.463	212	606745	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.052	264	480039	4.00	ppm	-0.02
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	0	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	2.097	88	13689	0.83	ppm	80
6) bis(2-Chloroethyl)ether	5.988	93	49746	1.04	ppm	81
8) Nitrobenzene	7.448	77	47032	0.80	ppm #	44
9) Naphthalene	8.803	128	146732	0.83	ppm	92
10) Hexachlorobutadiene	9.105	225	31565	1.00	ppm	77
11) 2-Methylnaphthalene	10.158	141	91200	0.99	ppm #	70
13) Hexachlorocyclopentadiene	10.528	237	15493	0.70	ppm	79
16) Acenaphthylene	11.915	152	156116	1.25	ppm	95
17) Acenaphthene	12.271	153	103254	1.26	ppm	91
19) Fluorene	13.313	166	120577	1.32	ppm	88
22) Hexachlorobenzene	14.418	284	38185	1.18	ppm	97
24) Phenanthrene	15.207	178	165938	1.24	ppm	99
25) Anthracene	15.315	178	146697	1.16	ppm	88
26) Fluoranthene	17.494	202	195403	1.18	ppm	99
27) Pyrene	17.881	202	193884	1.24	ppm	99
29) Benzo[a]anthracene	19.982	228	167952	1.29	ppm	99
30) Chrysene	20.028	228	160042	1.16	ppm	99
32) Benzo[b]fluoranthene	21.638	252	177150	1.14	ppm	98
33) Benzo[k]fluoranthene	21.675	252	167982	1.19	ppm	100
34) Benzo[a]pyrene	22.089	252	163851	1.14	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.538	276	171257	1.17	ppm	97
36) Dibenz[a,h]anthracene	23.575	278	135123	1.11	ppm	90
37) Benzo[g,h,i]perylene	23.876	276	149889	1.13	ppm	99

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

7.6.11

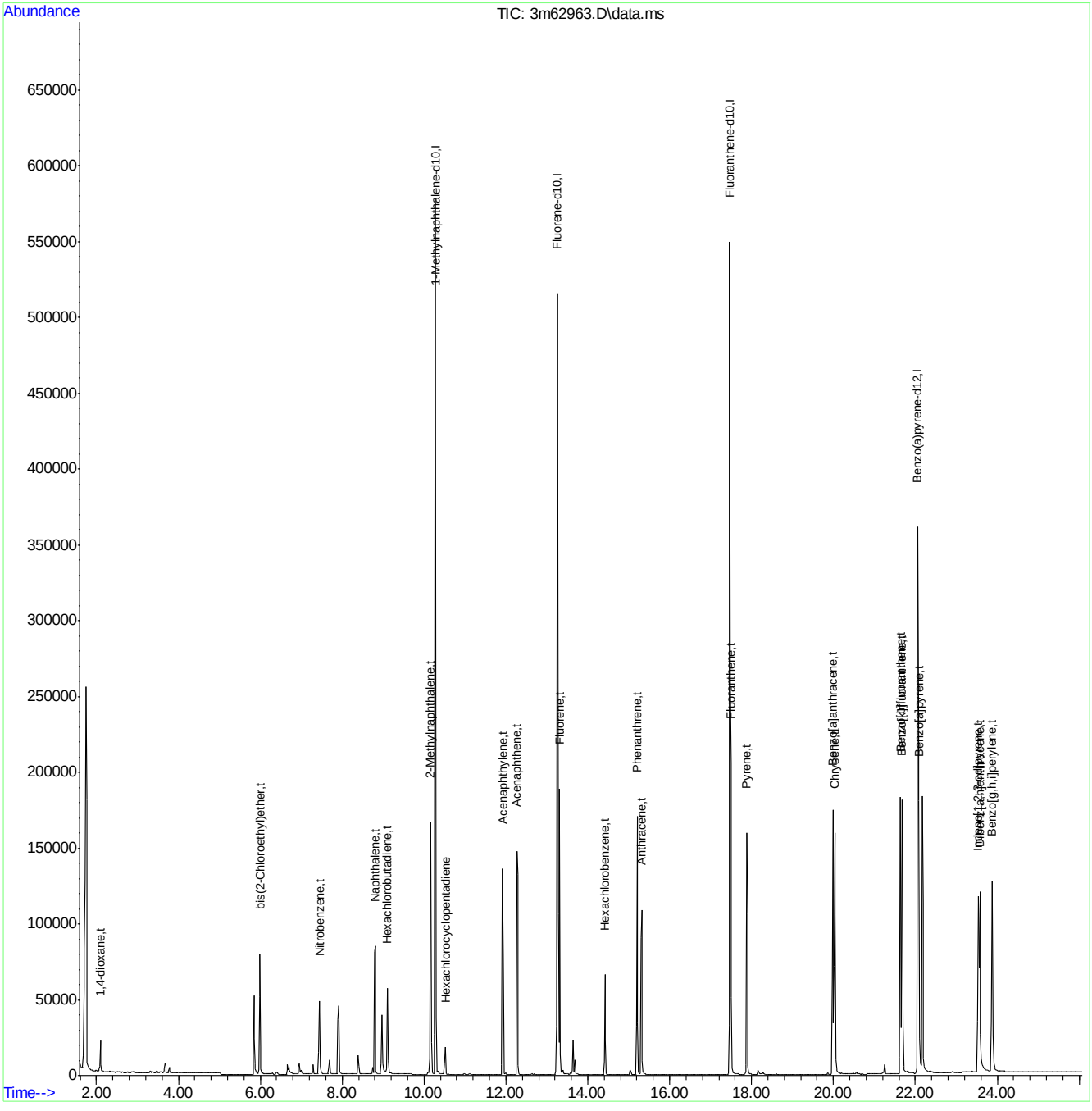
7

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62963.D
Acq On : 14 Jul 2016 5:51 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 18:16:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3002\
Data File : 3m63367.D
Acq On : 1 Aug 2016 10:43 am
Operator : shaniceg
Sample : cc2975-.5
Misc : op95160a,e3m3002
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 16:10:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Aug 01 15:46:07 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.138	150	361778	4.00	ppm	-0.08
14) Fluorene-d10	13.145	176	516496	4.00	ppm	0.00
21) Fluoranthene-d10	17.388	212	818562	4.00	ppm	-0.08
31) Benzo(a)pyrene-d12	21.997	264	498053	4.00	ppm	-0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.167	112	401223	7.97	ppm	-0.11
Spiked Amount 50.000			Recovery	=	15.94%	
4) Phenol-d5	5.782	99	617095	8.29	ppm	-0.09
Spiked Amount 50.000			Recovery	=	16.58%	
7) Nitrobenzene-d5	7.259	82	713808	10.21	ppm	-0.11
Spiked Amount 50.000			Recovery	=	20.42%	
15) 2-Fluorobiphenyl	10.815	172	1439951	10.27	ppm	-0.06
Spiked Amount 50.000			Recovery	=	20.54%	
20) 2,4,6-Tribromophenol	13.710	330	170251	7.88	ppm	0.00
Spiked Amount 50.000			Recovery	=	15.76%	
28) Terphenyl-d14	18.191	244	1254785	10.05	ppm	-0.11
Spiked Amount 50.000			Recovery	=	20.10%	
Target Compounds						Qvalue
2) 1,4-dioxane	1.958	88	11479	0.58	ppm #	61
5) Phenol	5.794	94	176072	2.27	ppm	91
6) bis(2-Chloroethyl)ether	5.843	93	24413	0.42	ppm #	52
8) Nitrobenzene	7.297	77	39183	0.55	ppm	80
9) Naphthalene	8.653	128	95488	0.45	ppm	97
10) Hexachlorobutadiene	8.954	225	16641	0.44	ppm	82
11) 2-Methylnaphthalene	10.035	141	52196	0.47	ppm	89
12) 1-Methylnaphthalene	10.220	141	56194	0.47	ppm	96
13) Hexachlorocyclopentadiene	10.384	237	5332	0.33	ppm	82
16) Acenaphthylene	11.792	152	104254	0.61	ppm	99
17) Acenaphthene	12.147	153	62420	0.56	ppm	98
18) 4,6-dinitro-2-methylph...	13.427	198	13951	1.10	ppm #	61
19) Fluorene	13.201	166	72375	0.58	ppm	93
22) Hexachlorobenzene	14.312	284	20256	0.46	ppm	99
23) Pentachlorophenol	14.775	266	26079	1.75	ppm	98
24) Phenanthrene	15.100	178	101654	0.56	ppm	99
25) Anthracene	15.208	178	106679	0.62	ppm	92
26) Fluoranthene	17.403	202	120458	0.54	ppm	96
27) Pyrene	17.805	202	122604	0.58	ppm	94
29) Benzo[a]anthracene	19.906	228	89647	0.51	ppm	89
30) Chrysene	19.968	228	99864	0.54	ppm	94
32) Benzo[b]fluoranthene	21.583	252	91150	0.56	ppm	97
33) Benzo[k]fluoranthene	21.620	252	78435	0.53	ppm	96
34) Benzo[a]pyrene	22.034	252	79486	0.53	ppm	97
35) Indeno[1,2,3-cd]pyrene	23.483	276	82682	0.55	ppm	98
36) Dibenz[a,h]anthracene	23.520	278	67313	0.53	ppm	100
37) Benzo[g,h,i]perylene	23.821	276	71396	0.52	ppm	99

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3002\
Data File : 3m63367.D
Acq On : 1 Aug 2016 10:43 am
Operator : shaniceg
Sample : cc2975-.5
Misc : op95160a,e3m3002
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 16:10:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Aug 01 15:46:07 2016
Response via : Initial Calibration

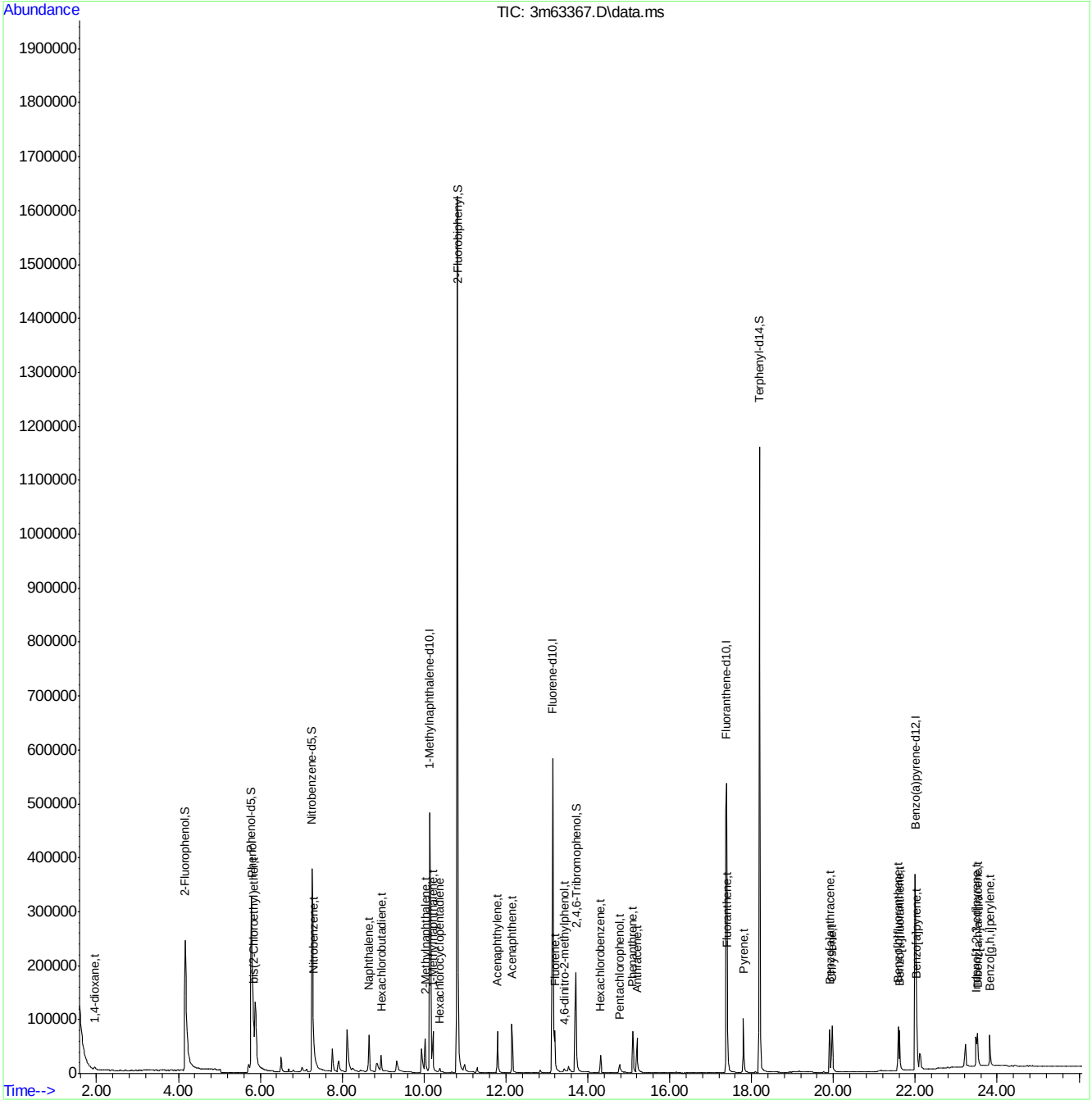
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3002\
Data File : 3m63367.D
Acq On : 1 Aug 2016 10:43 am
Operator : shaniceg
Sample : cc2975-.5
Misc : op95160a,e3m3002
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 16:10:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Aug 01 15:46:07 2016
Response via : Initial Calibration



M3M2975SIM.M Mon Aug 01 16:10:45 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3007\
Data File : 3m63451.D
Acq On : 4 Aug 2016 12:51 pm
Operator : shaniceg
Sample : CC2975-1
Misc : op95160a,e3m3007
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 14:33:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 04 12:44:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.015	150	357364	4.00	ppm	0.00
14) Fluorene-d10	12.997	176	473405	4.00	ppm	-0.02
21) Fluoranthene-d10	17.244	212	828418	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	21.879	264	678565	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.059	112	720855	14.49	ppm	-0.13
Spiked Amount 50.000			Recovery = 28.98%			
4) Phenol-d5	5.674	99	1193381	16.22	ppm	-0.08
Spiked Amount 50.000			Recovery = 32.44%			
7) Nitrobenzene-d5	7.146	82	1136248	16.45	ppm	-0.08
Spiked Amount 50.000			Recovery = 32.90%			
15) 2-Fluorobiphenyl	10.692	172	2449882	19.07	ppm	-0.07
Spiked Amount 50.000			Recovery = 38.14%			
20) 2,4,6-Tribromophenol	13.562	330	382323	19.30	ppm	0.00
Spiked Amount 50.000			Recovery = 38.60%			
28) Terphenyl-d14	18.078	244	2490945	19.70	ppm	0.01
Spiked Amount 50.000			Recovery = 39.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.865	88	18642	0.95	ppm	# 1
5) Phenol	5.698	94	315006	4.10	ppm	# 89
8) Nitrobenzene	7.184	77	67213	0.96	ppm	# 61
9) Naphthalene	8.521	128	172914	0.83	ppm	100
10) Hexachlorobutadiene	8.822	225	30891	0.83	ppm	79
11) 2-Methylnaphthalene	9.892	141	96282	0.88	ppm	# 66
12) 1-Methylnaphthalene	10.077	141	111938	0.94	ppm	76
13) Hexachlorocyclopentadiene	10.241	237	13293	0.56	ppm	99
16) Acenaphthylene	11.668	152	186292	1.19	ppm	96
17) Acenaphthene	12.024	153	117916	1.15	ppm	82
18) 4,6-dinitro-2-methylph...	13.280	198	64640	4.04	ppm	92
19) Fluorene	13.054	166	134121	1.17	ppm	77
22) Hexachlorobenzene	14.168	284	39879	0.90	ppm	94
23) Pentachlorophenol	14.632	266	64618	3.70	ppm	92
24) Phenanthrene	14.956	178	182144	0.99	ppm	99
25) Anthracene	15.065	178	173581	1.00	ppm	98
26) Fluoranthene	17.275	202	227808	1.01	ppm	98
27) Pyrene	17.677	202	235877	1.10	ppm	93
29) Benzo[a]anthracene	19.778	228	186210	1.05	ppm	94
30) Chrysene	19.840	228	230618	1.23	ppm	94
32) Benzo[b]fluoranthene	21.465	252	274372	1.24	ppm	83
33) Benzo[k]fluoranthene	21.503	252	127936	0.64	ppm	85
34) Benzo[a]pyrene	21.917	252	191595	0.95	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.346	276	152747	0.74	ppm	94
36) Dibenz[a,h]anthracene	23.384	278	125596	0.73	ppm	91
37) Benzo[g,h,i]perylene	23.685	276	128728	0.69	ppm	98

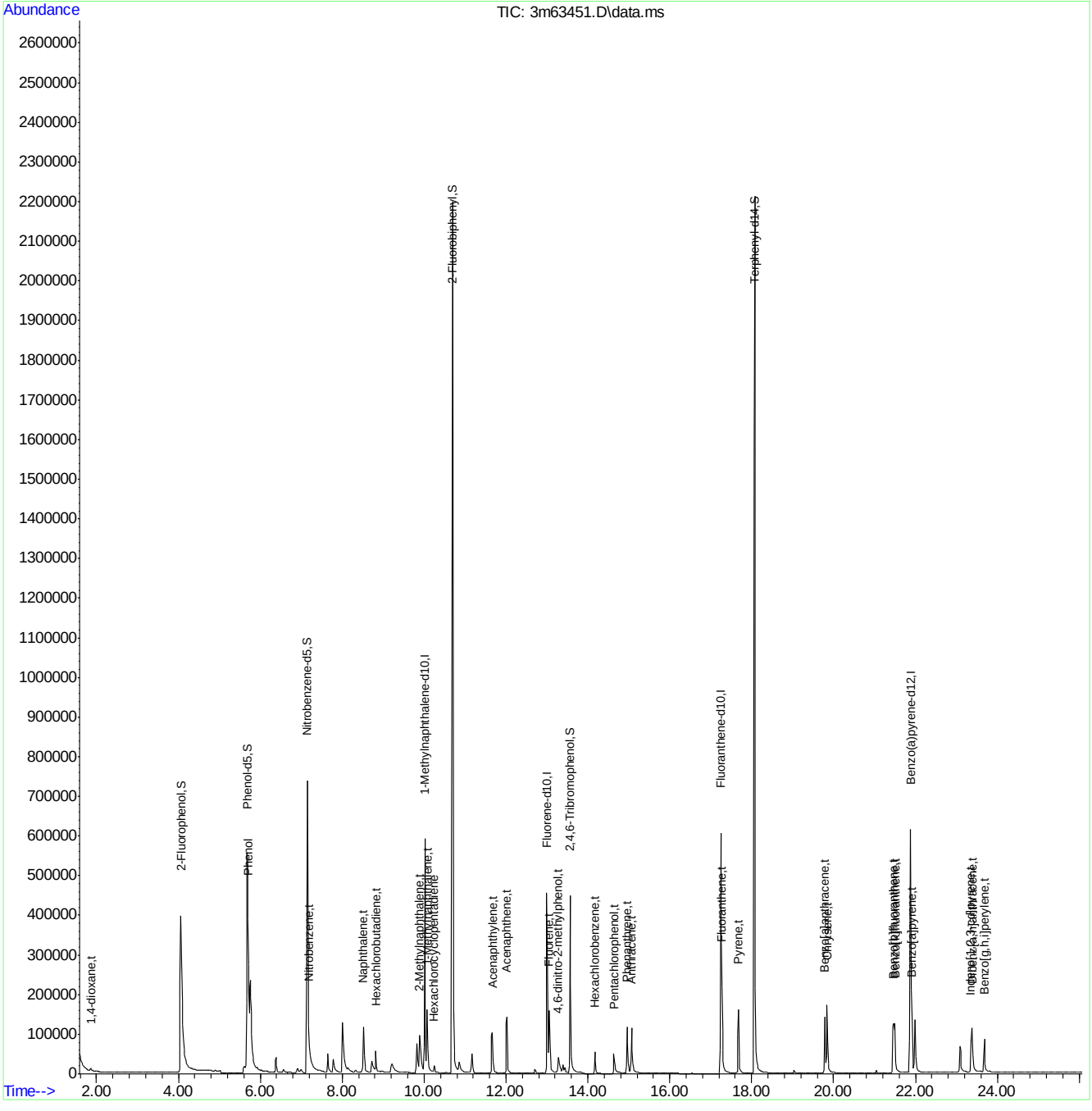
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3007\
Data File : 3m63451.D
Acq On : 4 Aug 2016 12:51 pm
Operator : shaniceg
Sample : CC2975-1
Misc : op95160a,e3m3007
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 14:33:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 04 12:44:35 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/11/16 10:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	54447	4.00	ppm	0.00
14) Fluorene-d10	14.093	176	82620	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	129840	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.812	264	96457	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.039	112	162469	20.41	ppm	0.00
Spiked Amount 50.000			Recovery = 40.82%			
4) Phenol-d5	6.603	99	205430	20.35	ppm	0.00
Spiked Amount 50.000			Recovery = 40.70%			
7) Nitrobenzene-d5	8.205	82	164537	20.35	ppm	0.00
Spiked Amount 50.000			Recovery = 40.70%			
15) 2-Fluorobiphenyl	11.756	172	344958	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
20) 2,4,6-Tribromophenol	14.639	330	56519	19.68	ppm	0.00
Spiked Amount 50.000			Recovery = 39.36%			
28) Terphenyl-d14	19.029	244	285010	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	5732	0.78	ppm #	1
5) Phenol	6.627	94	45417	5.09	ppm #	68
6) bis(2-Chloroethyl)ether	6.772	93	7943	0.99	ppm	91
8) Nitrobenzene	8.243	77	8332	0.98	ppm	74
9) Naphthalene	9.617	128	31368	1.02	ppm	98
10) Hexachlorobutadiene	9.919	225	4960	1.02	ppm	79
11) 2-Methylnaphthalene	10.977	141	16196	0.98	ppm	87
12) 1-Methylnaphthalene	11.182	141	13827	0.99	ppm #	58
13) Hexachlorocyclopentadiene	11.346	237	7201	2.04	ppm	99
16) Acenaphthylene	12.751	152	27400	0.99	ppm	98
17) Acenaphthene	13.107	153	17497	1.00	ppm	78
18) 4,6-dinitro-2-methylph...	14.300	198	6340	5.00	ppm	89
19) Fluorene	14.149	166	17779	1.00	ppm	97
22) Hexachlorobenzene	15.272	284	6556	1.00	ppm	98
23) Pentachlorophenol	15.674	266	15830	5.18	ppm	91
24) Phenanthrene	16.045	178	28166	0.99	ppm	92
25) Anthracene	16.154	178	25387	1.00	ppm	94
26) Fluoranthene	18.287	202	26178	1.00	ppm	98
27) Pyrene	18.673	202	29156	1.00	ppm	96
29) Benzo[a]anthracene	20.728	228	25038	0.98	ppm	90
30) Chrysene	20.790	228	26686	0.95	ppm	99
32) Benzo[b]fluoranthene	22.398	252	30952m	0.94	ppm	
33) Benzo[k]fluoranthene	22.436	252	27300m	0.98	ppm	
34) Benzo[a]pyrene	22.850	252	23964	1.00	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	29231	0.96	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	23777	1.02	ppm	76
37) Benzo[g,h,i]perylene	24.881	276	27395	1.01	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration

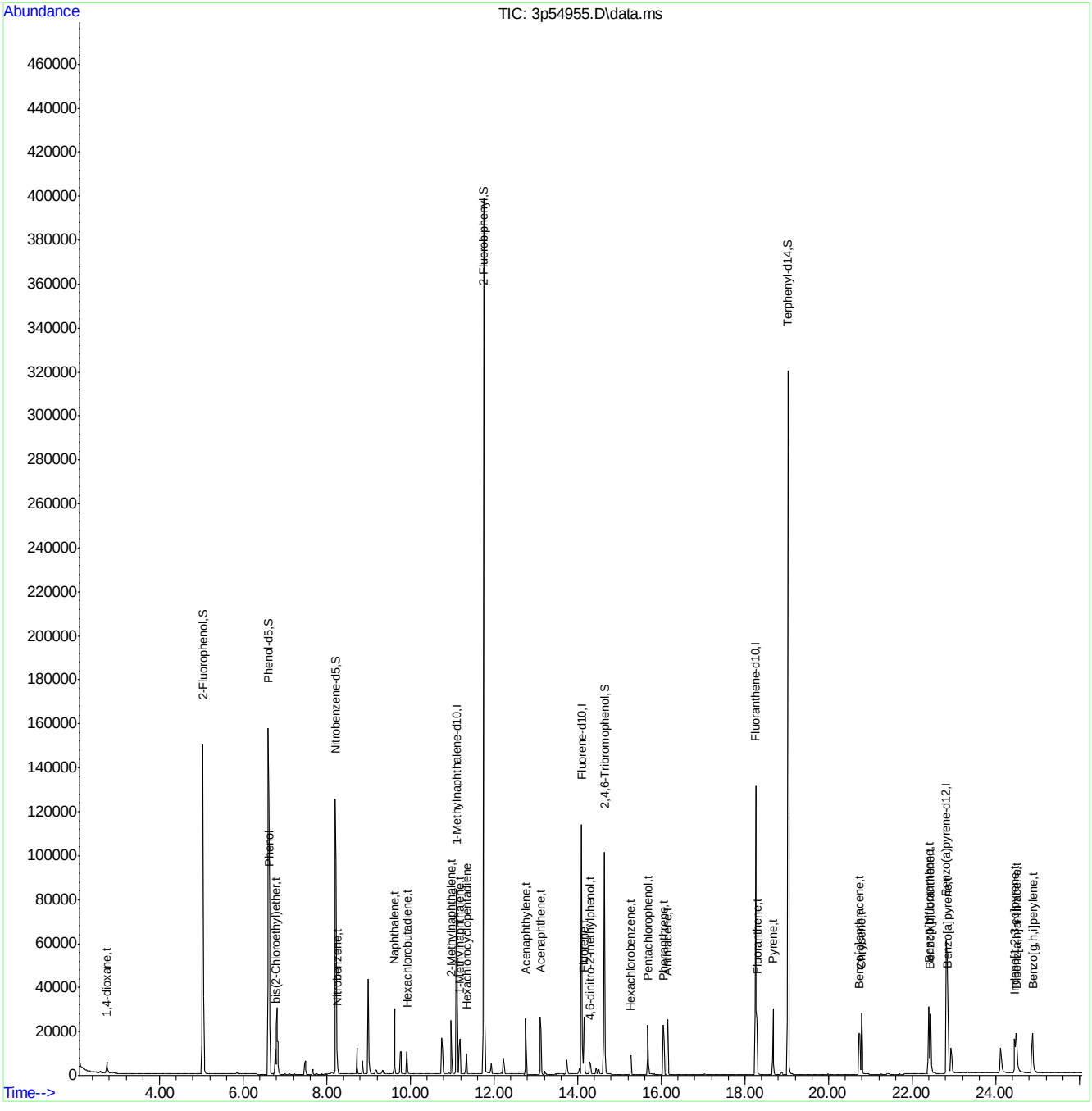
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:07:57 2016 Page: 3

Manual Integration Approval Summary

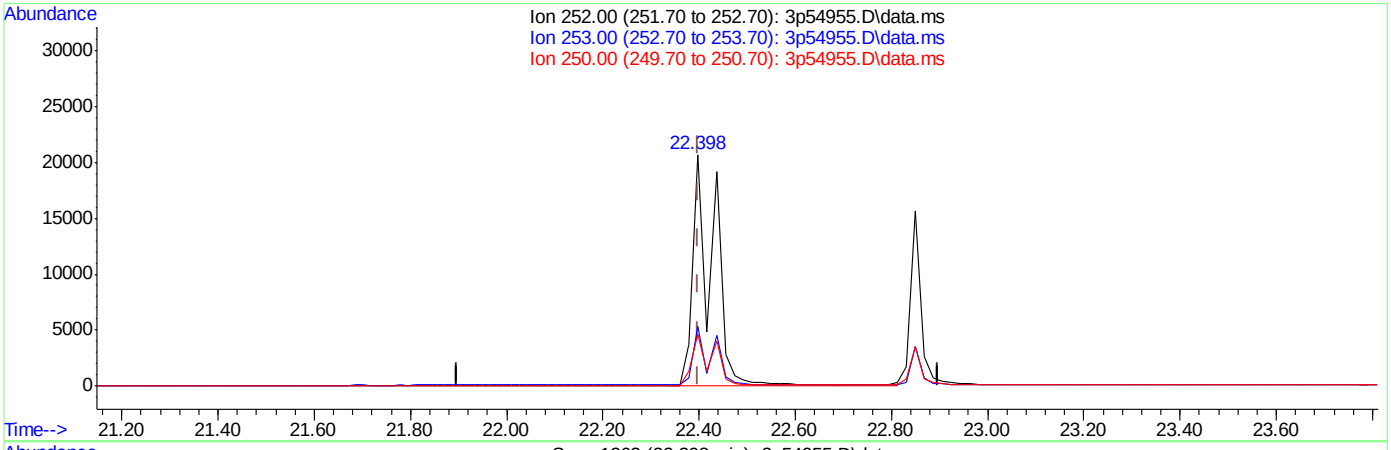
Sample Number:	E3P2503-ICC2503	**Method:**	SW846 8270D BY SIM
Lab FileID:	3P54955.D	**Analyst approved:**	07/11/16 10:13 Ashley Dye
Injection Time:	07/06/16 10:32	**Supervisor approved:**	07/11/16 10:45 Nina Pandya

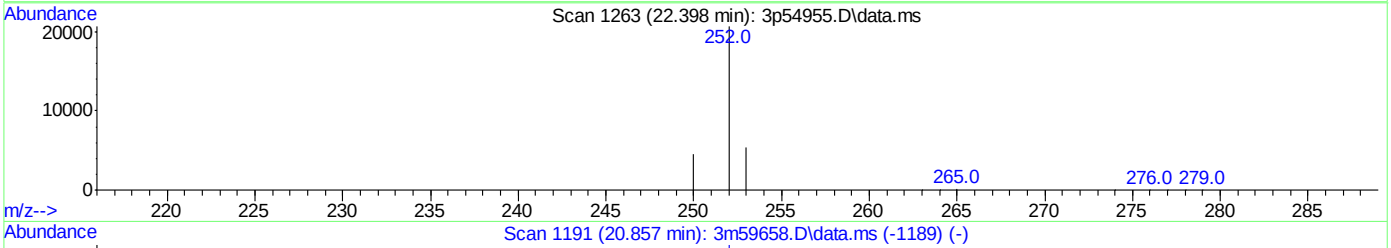
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		22.40	Overlapping peak
Benzo(k)fluoranthene	207-08-9		22.44	Overlapping peak

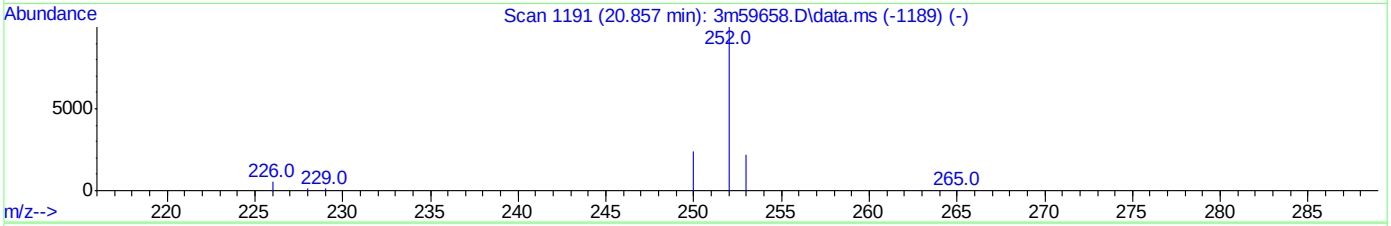
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op94978,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:24:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration







TIC: 3p54955.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (0.000) 1.85ppm

response 60924

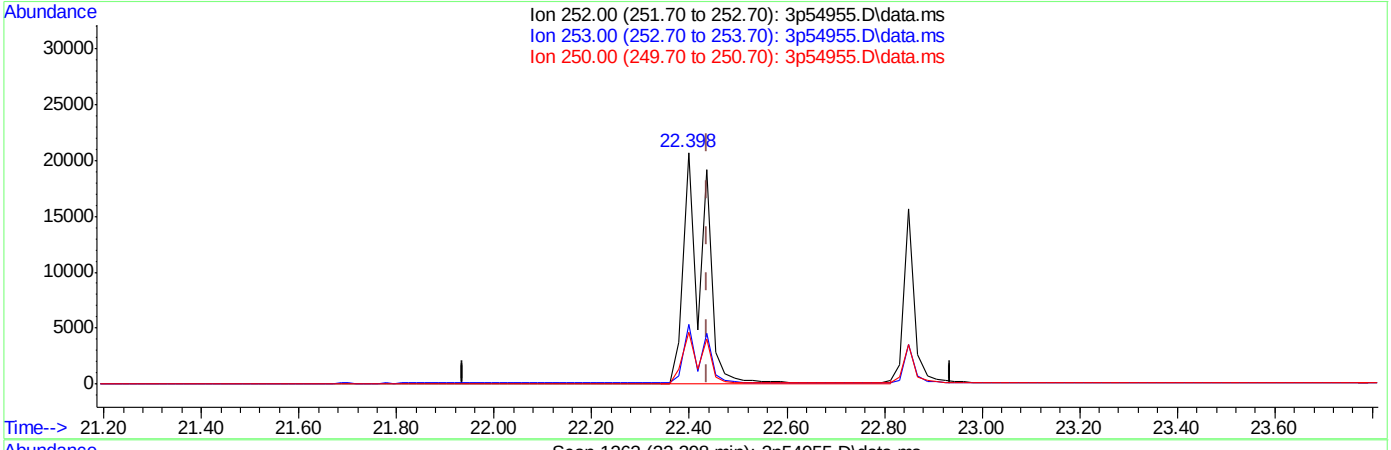
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.36
250.00	23.10	21.99
0.00	0.00	0.00

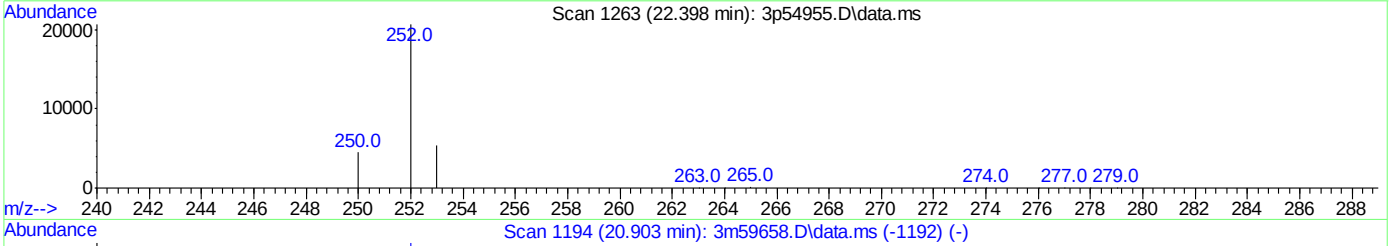
SGS ACCUTEST JC24622

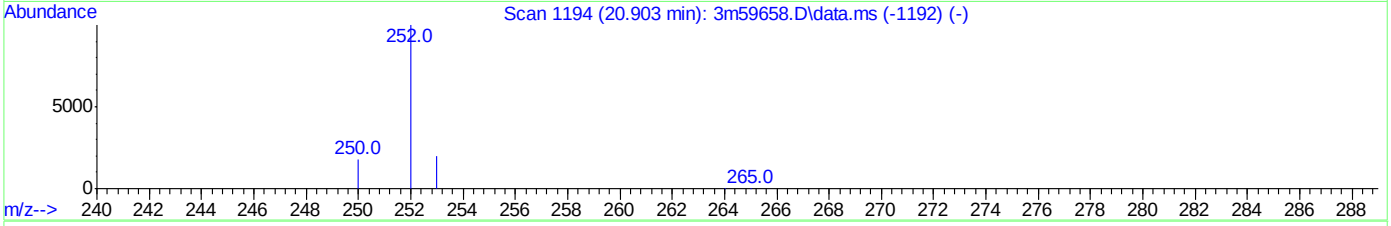
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op94978,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:24:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration







TIC: 3p54955.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.398min (-0.038) 2.19ppm

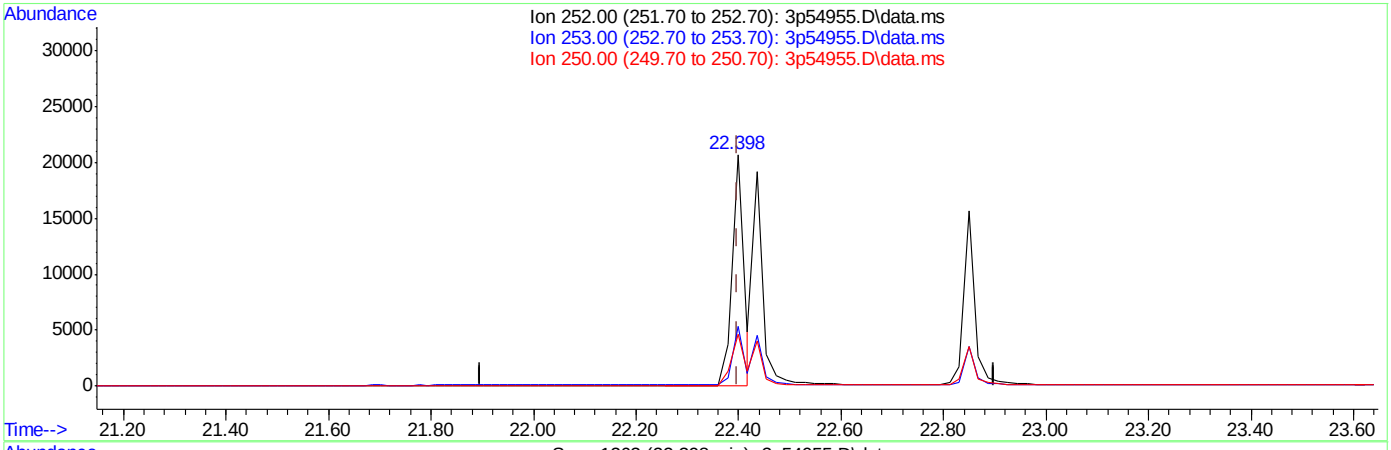
response 60924

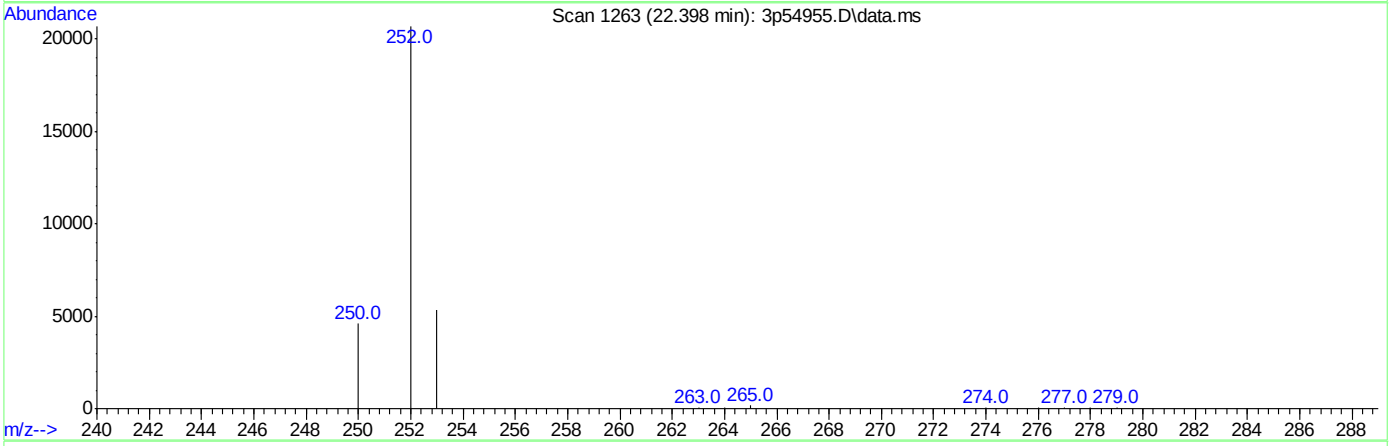
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.36
250.00	23.10	21.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration





TIC: 3p54955.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (0.000) 0.94ppm m

response 30952

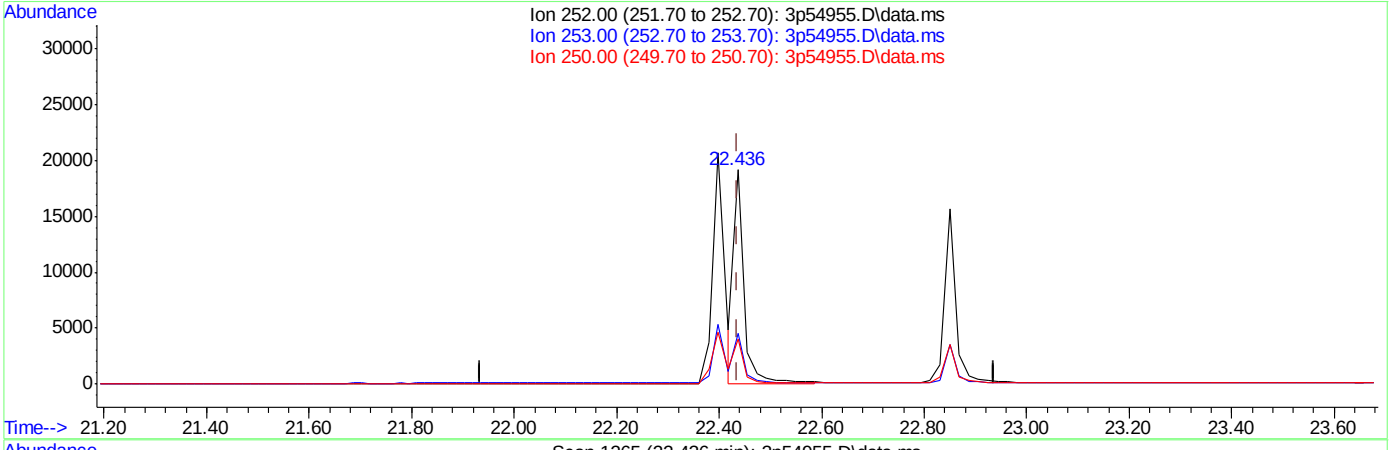
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.77
250.00	23.10	22.24
0.00	0.00	0.00

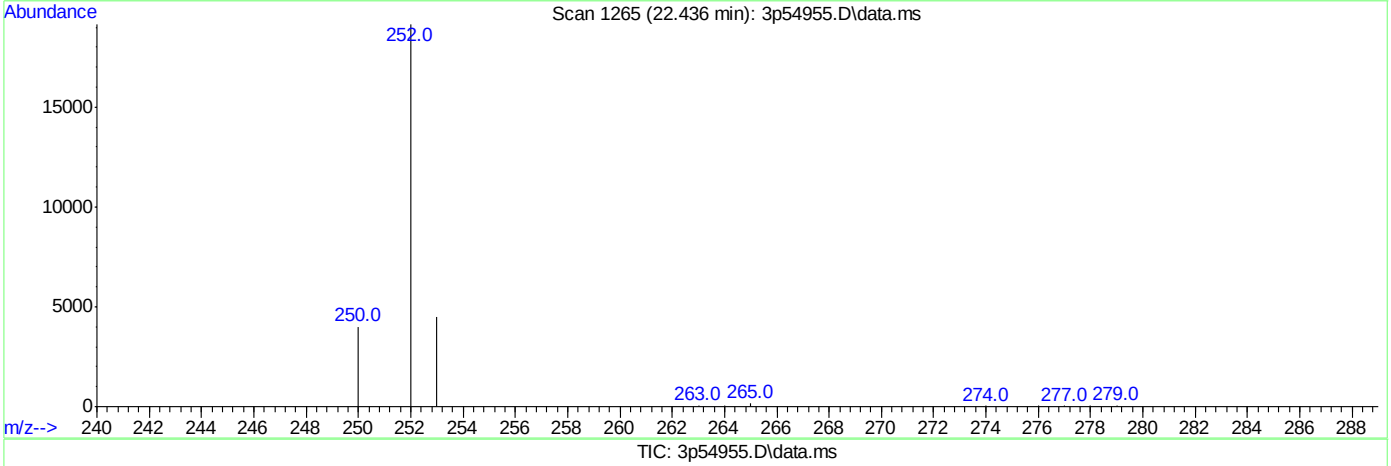
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration





TIC: 3p54955.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.436min (0.000) 0.98ppm m

response 27300

Ion	Exp%	Act%
252.00	100	100
253.00	23.60	23.48
250.00	23.10	20.89
0.00	0.00	0.00

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54956.D
Acq On : 6 Jul 2016 11:26 am
Operator : hankc
Sample : ic2503-0.01
Misc : op95179a,e3p2503
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 17:26:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:25:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	79545	4.00	ppm	0.00
14) Fluorene-d10	14.093	176	120952	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	177380	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	143417	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	2956	0.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.50%	
4) Phenol-d5	6.602	99	4067	0.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.54%	
7) Nitrobenzene-d5	8.205	82	3272	0.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.54%	
15) 2-Fluorobiphenyl	11.756	172	6506	0.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.52%	
20) 2,4,6-Tribromophenol	14.639	330	685	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
28) Terphenyl-d14	19.029	244	4989	0.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.52%	
Target Compounds						Qvalue
5) Phenol	6.627	94	1100	0.08	ppm	# 74
6) bis(2-Chloroethyl)ether	6.772	93	171	0.01	ppm	92
9) Naphthalene	9.617	128	584	0.01	ppm	98
11) 2-Methylnaphthalene	10.977	141	822	0.03	ppm	88
12) 1-Methylnaphthalene	11.182	141	249	0.01	ppm	# 66
13) Hexachlorocyclopentadiene	11.346	237	55	0.01	ppm	96
16) Acenaphthylene	12.751	152	434	0.01	ppm	99
17) Acenaphthene	13.107	153	301	0.01	ppm	79
18) 4,6-dinitro-2-methylph...	14.300	198	137	0.07	ppm	67
19) Fluorene	14.149	166	258	0.01	ppm	96
22) Hexachlorobenzene	15.272	284	101	0.01	ppm	99
23) Pentachlorophenol	15.674	266	544	0.13	ppm	98
24) Phenanthrene	16.045	178	465	0.01	ppm	93
25) Anthracene	16.154	178	405	0.01	ppm	94
26) Fluoranthene	18.287	202	485	0.01	ppm	99
27) Pyrene	18.673	202	436	0.01	ppm	97
29) Benzo[a]anthracene	20.744	228	406	0.01	ppm	92
30) Chrysene	20.790	228	418	0.01	ppm	99
32) Benzo[b]fluoranthene	22.398	252	640	0.01	ppm	99
33) Benzo[k]fluoranthene	22.436	252	580	0.01	ppm	94
35) Indeno[1,2,3-cd]pyrene	24.467	276	485	0.01	ppm	93
36) Dibenz[a,h]anthracene	24.505	278	351	0.01	ppm	54
37) Benzo[g,h,i]perylene	24.881	276	516	0.01	ppm	88

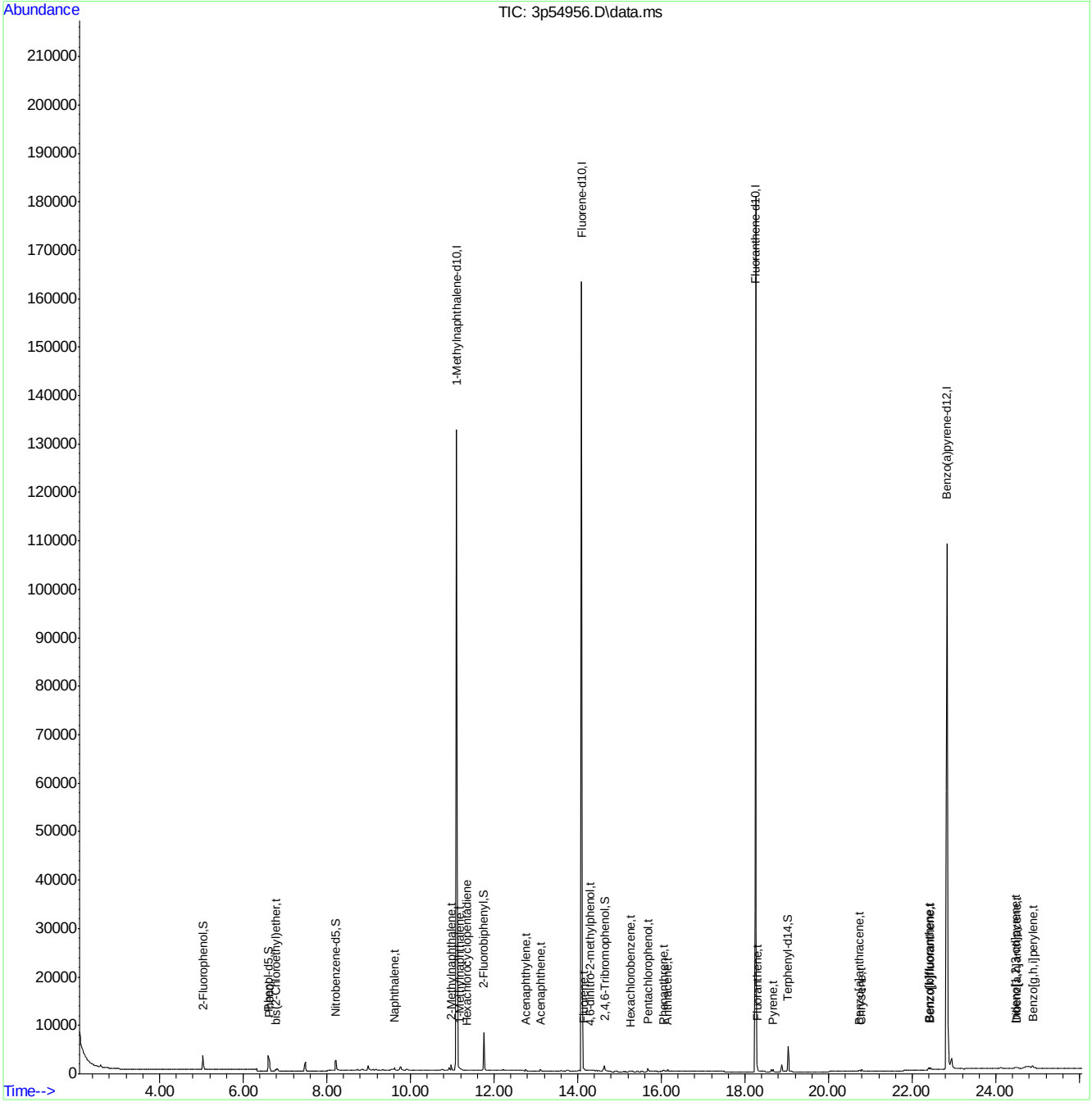
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54956.D
Acq On : 6 Jul 2016 11:26 am
Operator : hankc
Sample : ic2503-0.01
Misc : op95179a,e3p2503
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 17:26:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:25:20 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:08:04 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54957.D
Acq On : 6 Jul 2016 11:57 am
Operator : hankc
Sample : ic2503-0.02
Misc : op95179a,e3p2503
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 17:27:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:26:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	105023	4.00	ppm	# 0.00
14) Fluorene-d10	14.093	176	158303	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	232382	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	188456	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	7602	0.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.98%	
4) Phenol-d5	6.602	99	10549	0.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.06%	
7) Nitrobenzene-d5	8.205	82	7872	0.50	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.00%	
15) 2-Fluorobiphenyl	11.756	172	17810	0.47	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.94%	
20) 2,4,6-Tribromophenol	14.639	330	1705	0.31	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.62%	
28) Terphenyl-d14	19.028	244	13540	0.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.06%	
Target Compounds						Qvalue
5) Phenol	6.627	94	2821	0.16	ppm	# 71
6) bis(2-Chloroethyl)ether	6.772	93	458	0.02	ppm	92
8) Nitrobenzene	8.243	77	497	0.03	ppm	69
9) Naphthalene	9.617	128	1533	0.02	ppm	96
10) Hexachlorobutadiene	9.919	225	310	0.03	ppm	85
11) 2-Methylnaphthalene	10.977	141	1456	0.05	ppm	93
12) 1-Methylnaphthalene	11.161	141	588	0.02	ppm	93
13) Hexachlorocyclopentadiene	11.346	237	123	0.02	ppm	96
16) Acenaphthylene	12.751	152	1107	0.02	ppm	97
17) Acenaphthene	13.107	153	741	0.02	ppm	82
18) 4,6-dinitro-2-methylph...	14.300	198	215	0.09	ppm	76
19) Fluorene	14.149	166	635	0.02	ppm	96
22) Hexachlorobenzene	15.257	284	279	0.02	ppm	72
23) Pentachlorophenol	15.674	266	757	0.13	ppm	96
24) Phenanthrene	16.045	178	1192	0.02	ppm	95
25) Anthracene	16.154	178	1040	0.02	ppm	93
26) Fluoranthene	18.287	202	1096	0.02	ppm	98
27) Pyrene	18.673	202	1039	0.02	ppm	96
29) Benzo[a]anthracene	20.744	228	877	0.02	ppm	95
30) Chrysene	20.790	228	998	0.02	ppm	98
32) Benzo[b]fluoranthene	22.398	252	1188	0.02	ppm	97
33) Benzo[k]fluoranthene	22.436	252	1064	0.02	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	1060	0.02	ppm	91
36) Dibenz[a,h]anthracene	24.486	278	834	0.02	ppm	81
37) Benzo[g,h,i]perylene	24.881	276	1088	0.02	ppm	89

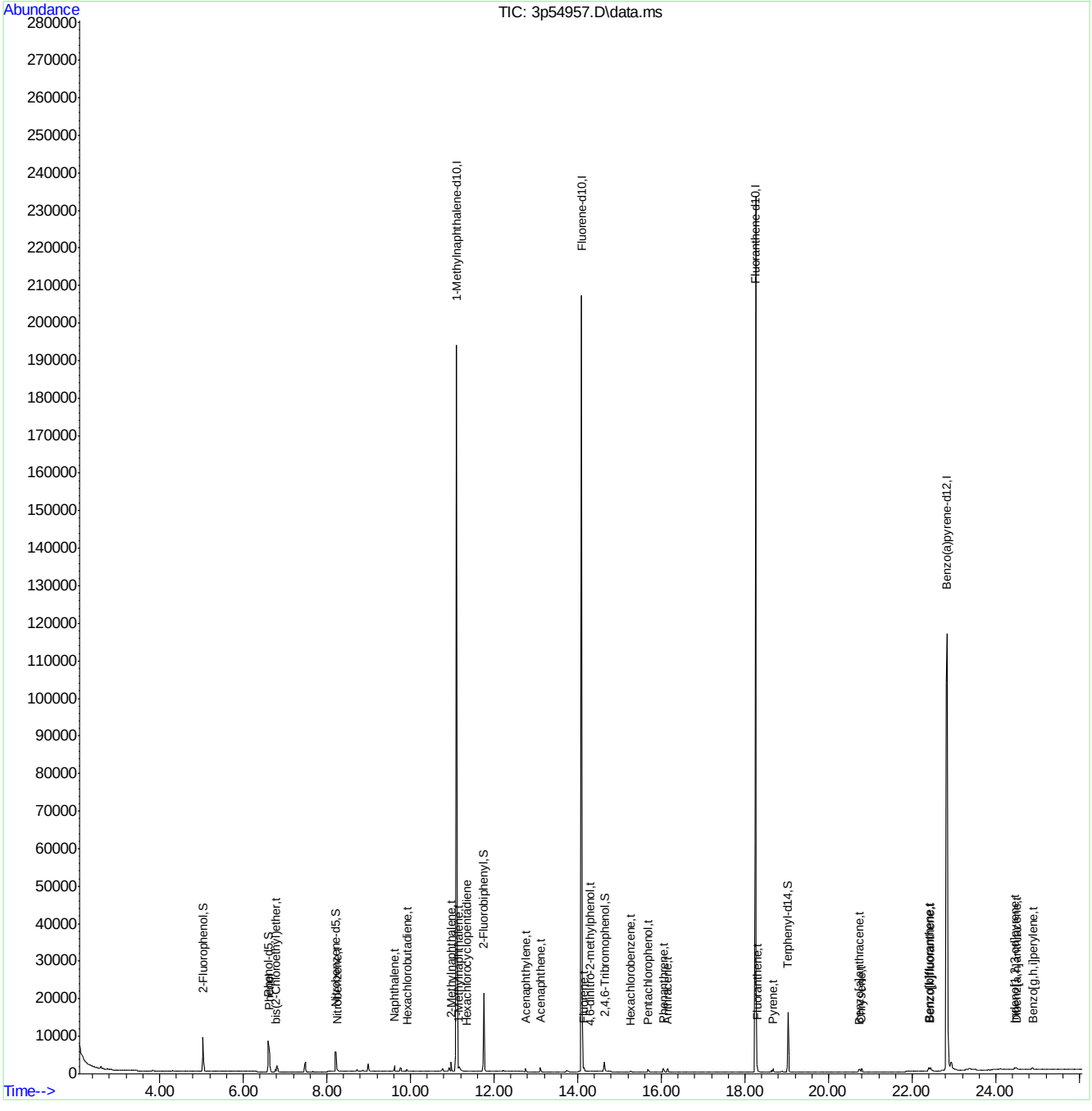
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54957.D
Acq On : 6 Jul 2016 11:57 am
Operator : hankc
Sample : ic2503-0.02
Misc : op95179a,e3p2503
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 17:27:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:26:47 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54958.D
Acq On : 6 Jul 2016 12:28 pm
Operator : hankc
Sample : ic2503-0.05
Misc : op95179a,e3p2503
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 17:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:33:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	95340	4.00	ppm	# 0.00
14) Fluorene-d10	14.093	176	145255	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	211286	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	168543	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.039	112	17235	1.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.24%	
4) Phenol-d5	6.603	99	23981	1.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.32%	
7) Nitrobenzene-d5	8.205	82	17781	1.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.30%	
15) 2-Fluorobiphenyl	11.756	172	39594	1.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.22%	
20) 2,4,6-Tribromophenol	14.639	330	4068	0.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.78%	
28) Terphenyl-d14	19.029	244	32347	1.23	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.46%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.752	88	702	0.07	ppm	70
5) Phenol	6.627	94	6117	0.20	ppm #	68
6) bis(2-Chloroethyl)ether	6.772	93	956	0.06	ppm	93
8) Nitrobenzene	8.243	77	1196	0.07	ppm	74
9) Naphthalene	9.618	128	3398	0.05	ppm	96
10) Hexachlorobutadiene	9.919	225	611	0.06	ppm	87
11) 2-Methylnaphthalene	10.977	141	2171	0.06	ppm	92
12) 1-Methylnaphthalene	11.162	141	1318	0.05	ppm	95
13) Hexachlorocyclopentadiene	11.346	237	348	0.19	ppm	94
16) Acenaphthylene	12.751	152	2693	0.05	ppm	97
17) Acenaphthene	13.107	153	1712	0.05	ppm	83
18) 4,6-dinitro-2-methylph...	14.300	198	328	0.69	ppm	83
19) Fluorene	14.149	166	1449	0.05	ppm	93
22) Hexachlorobenzene	15.257	284	620	0.05	ppm	74
23) Pentachlorophenol	15.674	266	997	0.45	ppm	99
24) Phenanthrene	16.046	178	2689	0.05	ppm	95
25) Anthracene	16.154	178	2314	0.06	ppm	92
26) Fluoranthene	18.287	202	2061	0.05	ppm	98
27) Pyrene	18.673	202	2349	0.05	ppm	93
29) Benzo[a]anthracene	20.728	228	1975	0.05	ppm	91
30) Chrysene	20.790	228	2524	0.06	ppm	99
32) Benzo[b]fluoranthene	22.398	252	2577	0.05	ppm	97
33) Benzo[k]fluoranthene	22.436	252	2325	0.05	ppm	95
34) Benzo[a]pyrene	22.850	252	2489	0.06	ppm	94
35) Indeno[1,2,3-cd]pyrene	24.448	276	2281	0.05	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	1819	0.05	ppm	81
37) Benzo[g,h,i]perylene	24.881	276	2387	0.05	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54958.D
Acq On : 6 Jul 2016 12:28 pm
Operator : hankc
Sample : ic2503-0.05
Misc : op95179a,e3p2503
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 17:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:33:16 2016
Response via : Initial Calibration

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

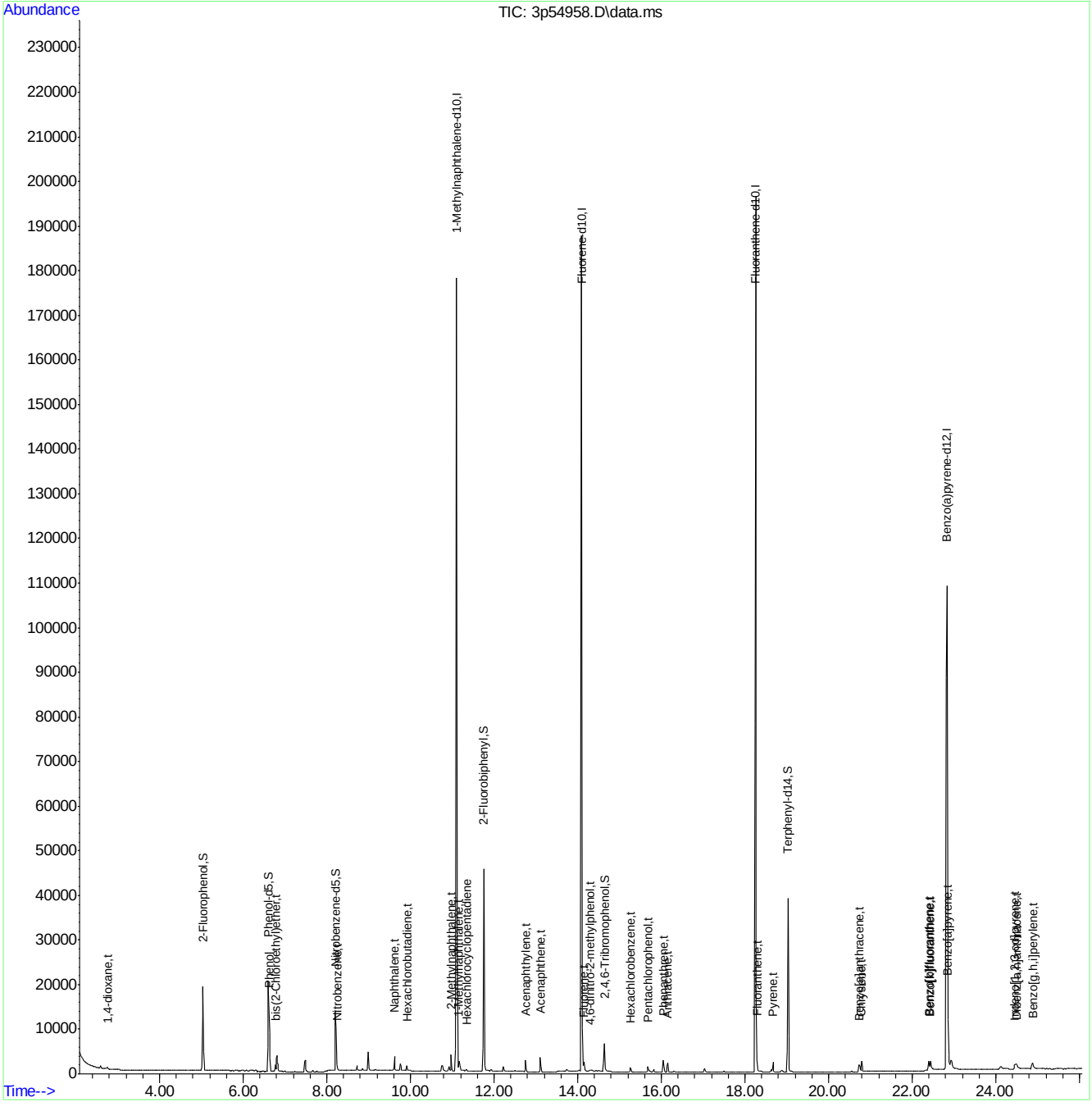
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54958.D
Acq On : 6 Jul 2016 12:28 pm
Operator : hankc
Sample : ic2503-0.05
Misc : op95179a,e3p2503
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 17:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:33:16 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54959.D
Acq On : 6 Jul 2016 12:59 pm
Operator : hankc
Sample : ic2503-0.1
Misc : op95179a,e3p2503
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 17:28:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:27:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	80575	4.00	ppm	# 0.00
14) Fluorene-d10	14.093	176	123488	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	180618	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	137267	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	28500	2.14	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.28%	
4) Phenol-d5	6.602	99	39059	2.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.40%	
7) Nitrobenzene-d5	8.205	82	28853	2.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.24%	
15) 2-Fluorobiphenyl	11.756	172	65085	2.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.08%	
20) 2,4,6-Tribromophenol	14.639	330	7100	1.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.36%	
28) Terphenyl-d14	19.028	244	52972	2.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	5.34%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.751	88	847	0.10	ppm	67
5) Phenol	6.627	94	9704	0.52	ppm #	67
6) bis(2-Chloroethyl)ether	6.772	93	1520	0.10	ppm	92
8) Nitrobenzene	8.243	77	1684	0.10	ppm	71
9) Naphthalene	9.617	128	5473	0.10	ppm	97
10) Hexachlorobutadiene	9.919	225	941	0.10	ppm	85
11) 2-Methylnaphthalene	10.977	141	2843	0.09	ppm	92
12) 1-Methylnaphthalene	11.161	141	2204	0.10	ppm	92
13) Hexachlorocyclopentadiene	11.346	237	681	0.13	ppm	96
16) Acenaphthylene	12.751	152	4073	0.09	ppm	97
17) Acenaphthene	13.107	153	2759	0.10	ppm	81
18) 4,6-dinitro-2-methylph...	14.300	198	425	0.22	ppm	88
19) Fluorene	14.149	166	2457	0.10	ppm	94
22) Hexachlorobenzene	15.257	284	1013	0.10	ppm	73
23) Pentachlorophenol	15.674	266	1274	0.33	ppm	99
24) Phenanthrene	16.045	178	4363	0.10	ppm	95
25) Anthracene	16.154	178	3806	0.11	ppm	92
26) Fluoranthene	18.287	202	3534	0.10	ppm	97
27) Pyrene	18.673	202	3868	0.10	ppm	94
29) Benzo[a]anthracene	20.728	228	3076	0.09	ppm	90
30) Chrysene	20.790	228	4050	0.10	ppm	100
32) Benzo[b]fluoranthene	22.398	252	4191	0.10	ppm	97
33) Benzo[k]fluoranthene	22.436	252	3842	0.10	ppm	96
34) Benzo[a]pyrene	22.849	252	3699	0.10	ppm	94
35) Indeno[1,2,3-cd]pyrene	24.448	276	3512	0.08	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	2784	0.08	ppm	83
37) Benzo[g,h,i]perylene	24.881	276	3878	0.10	ppm	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54959.D
Acq On : 6 Jul 2016 12:59 pm
Operator : hankc
Sample : ic2503-0.1
Misc : op95179a,e3p2503
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 17:28:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:27:37 2016
Response via : Initial Calibration

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

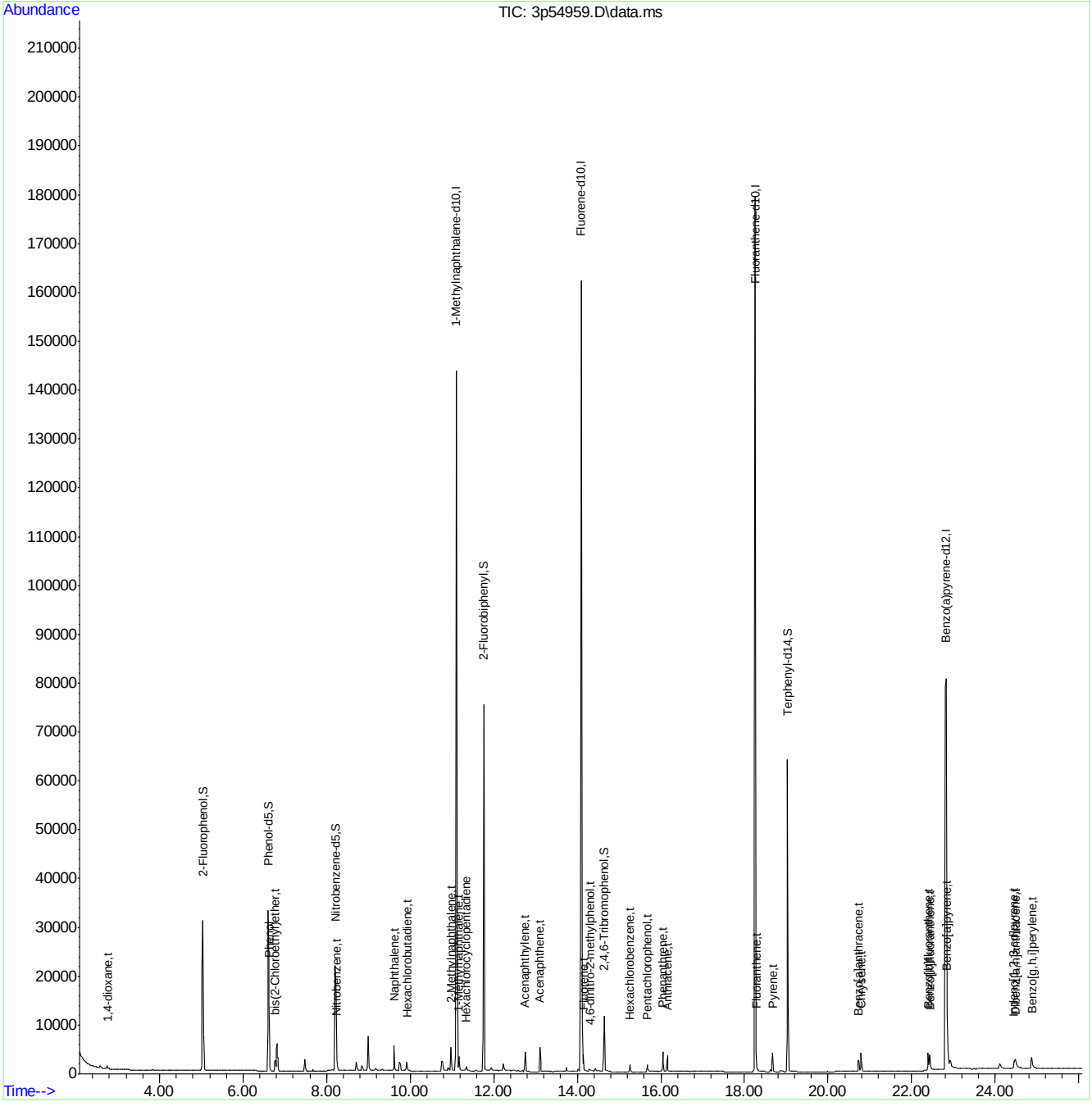
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54959.D
Acq On : 6 Jul 2016 12:59 pm
Operator : hankc
Sample : ic2503-0.1
Misc : op95179a,e3p2503
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 17:28:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:27:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54960.D
Acq On : 6 Jul 2016 1:30 pm
Operator : hankc
Sample : ic2503-0.2
Misc : op95179a,e3p2503
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 17:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:28:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	11.100	150	66048	4.00 ppm	# 0.00
14) Fluorene-d10	14.093	176	99585	4.00 ppm	0.00
21) Fluoranthene-d10	18.256	212	147162	4.00 ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	109620	4.00 ppm	0.02
System Monitoring Compounds					
3) 2-Fluorophenol	5.038	112	50614	4.54 ppm	0.00
Spiked Amount 50.000			Recovery	= 9.08%	
4) Phenol-d5	6.602	99	67367	4.48 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.96%	
7) Nitrobenzene-d5	8.205	82	50923	4.48 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.96%	
15) 2-Fluorobiphenyl	11.756	172	113318	4.39 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.78%	
20) 2,4,6-Tribromophenol	14.639	330	13649	4.01 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.02%	
28) Terphenyl-d14	19.029	244	90856	4.82 ppm	0.00
Spiked Amount 50.000			Recovery	= 9.64%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.736	88	1458	0.21 ppm	# 1
5) Phenol	6.627	94	16041	1.04 ppm	# 65
6) bis(2-Chloroethyl)ether	6.772	93	2522	0.20 ppm	90
8) Nitrobenzene	8.243	77	3042	0.22 ppm	75
9) Naphthalene	9.617	128	9348	0.21 ppm	96
10) Hexachlorobutadiene	9.919	225	1571	0.20 ppm	86
11) 2-Methylnaphthalene	10.977	141	5404	0.22 ppm	94
12) 1-Methylnaphthalene	11.161	141	4002	0.22 ppm	95
13) Hexachlorocyclopentadiene	11.346	237	1351	0.38 ppm	96
16) Acenaphthylene	12.751	152	7514	0.22 ppm	97
17) Acenaphthene	13.107	153	4798	0.21 ppm	83
18) 4,6-dinitro-2-methylph...	14.300	198	1203	1.09 ppm	83
19) Fluorene	14.149	166	4529	0.22 ppm	93
22) Hexachlorobenzene	15.257	284	1819	0.22 ppm	73
23) Pentachlorophenol	15.674	266	2921	1.04 ppm	95
24) Phenanthrene	16.045	178	7748	0.22 ppm	95
25) Anthracene	16.154	178	6641	0.22 ppm	92
26) Fluoranthene	18.287	202	6405	0.22 ppm	96
27) Pyrene	18.673	202	7087	0.22 ppm	95
29) Benzo[a]anthracene	20.744	228	5395	0.20 ppm	93
30) Chrysene	20.790	228	6901	0.21 ppm	99
32) Benzo[b]fluoranthene	22.398	252	6998	0.20 ppm	97
33) Benzo[k]fluoranthene	22.436	252	6625	0.21 ppm	96
34) Benzo[a]pyrene	22.850	252	6076	0.20 ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	6396	0.21 ppm	92
36) Dibenz[a,h]anthracene	24.486	278	5103	0.21 ppm	83
37) Benzo[g,h,i]perylene	24.881	276	6671	0.21 ppm	89

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54960.D
Acq On : 6 Jul 2016 1:30 pm
Operator : hankc
Sample : ic2503-0.2
Misc : op95179a,e3p2503
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 17:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:28:34 2016
Response via : Initial Calibration

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

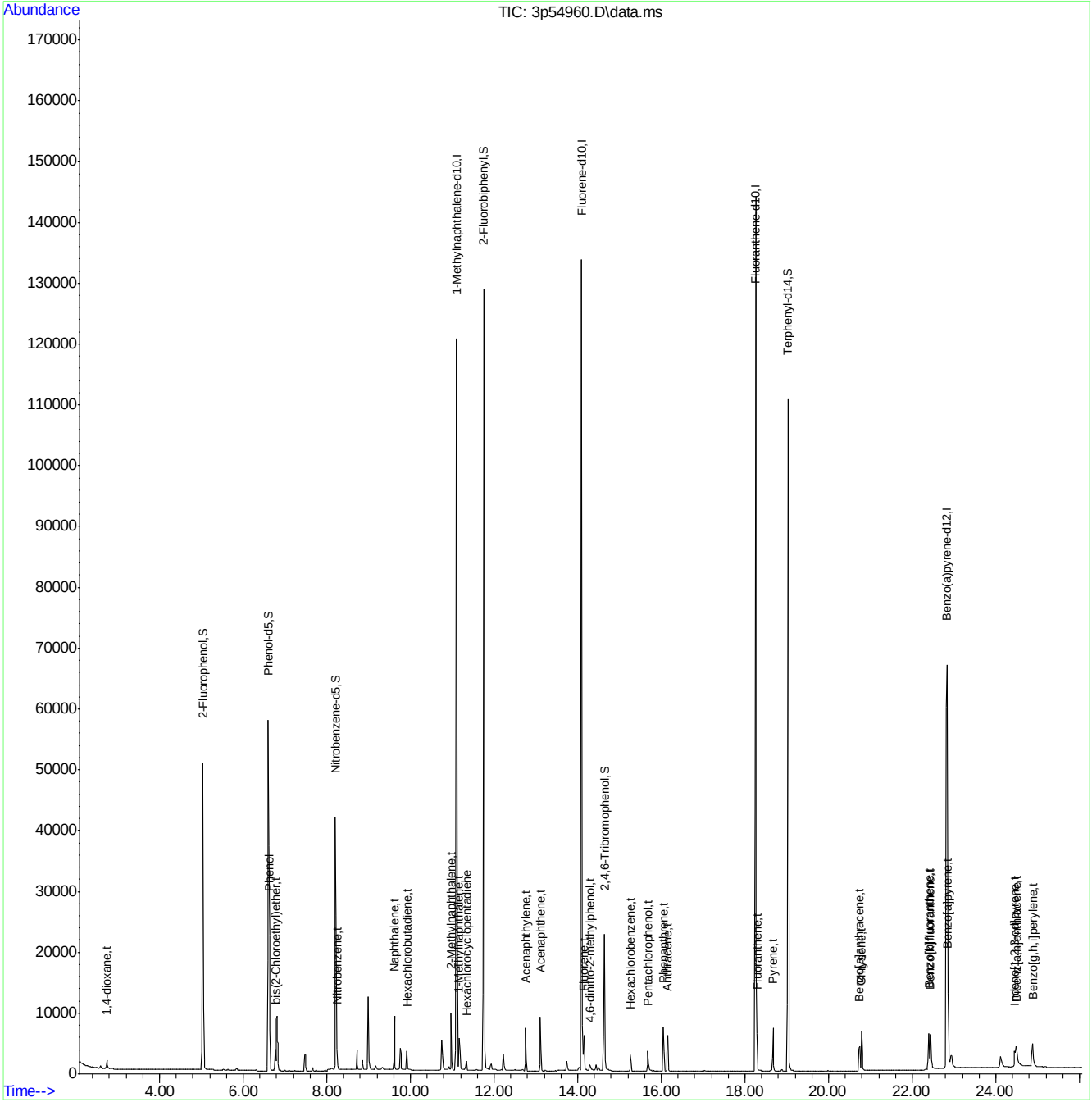
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54960.D
Acq On : 6 Jul 2016 1:30 pm
Operator : hankc
Sample : ic2503-0.2
Misc : op95179a,e3p2503
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 17:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:28:34 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54961.D
Acq On : 6 Jul 2016 2:02 pm
Operator : hankc
Sample : ic2503-5
Misc : op95179a,e3p2503
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 17:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	61525	4.00	ppm	0.00
14) Fluorene-d10	14.092	176	106137	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	179159	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	120627	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	647516	60.28	ppm	0.00
Spiked Amount 50.000			Recovery = 120.56%			
4) Phenol-d5	6.627	99	895989	62.13	ppm	0.02
Spiked Amount 50.000			Recovery = 124.26%			
7) Nitrobenzene-d5	8.224	82	800055	73.32	ppm	0.02
Spiked Amount 50.000			Recovery = 146.64%			
15) 2-Fluorobiphenyl	11.756	172	1343229	48.07	ppm	0.00
Spiked Amount 50.000			Recovery = 96.14%			
20) 2,4,6-Tribromophenol	14.639	330	249435	68.65	ppm	0.00
Spiked Amount 50.000			Recovery = 137.30%			
28) Terphenyl-d14	19.044	244	1032408	42.09	ppm	0.02
Spiked Amount 50.000			Recovery = 84.18%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	31180	4.74	ppm	# 49
5) Phenol	6.639	94	210004	14.51	ppm	# 79
6) bis(2-Chloroethyl)ether	6.772	93	46583	3.92	ppm	82
8) Nitrobenzene	8.243	77	41778	3.14	ppm	# 55
9) Naphthalene	9.617	128	182708	4.30	ppm	94
10) Hexachlorobutadiene	9.919	225	29671	4.00	ppm	86
11) 2-Methylnaphthalene	10.977	141	94727	4.07	ppm	97
12) 1-Methylnaphthalene	11.161	141	83239	4.78	ppm	96
13) Hexachlorocyclopentadiene	11.346	237	54397	16.63	ppm	96
16) Acenaphthylene	12.751	152	183790	4.92	ppm	93
17) Acenaphthene	13.107	153	101699	4.12	ppm	88
18) 4,6-dinitro-2-methylph...	14.300	198	87912	72.42	ppm	84
19) Fluorene	14.149	166	114988	5.18	ppm	90
22) Hexachlorobenzene	15.257	284	41582	4.05	ppm	72
23) Pentachlorophenol	15.674	266	118085	34.14	ppm	82
24) Phenanthrene	16.045	178	170430	3.90	ppm	97
25) Anthracene	16.154	178	152857	4.05	ppm	90
26) Fluoranthene	18.287	202	171110	4.72	ppm	94
27) Pyrene	18.673	202	190448	4.71	ppm	91
29) Benzo[a]anthracene	20.743	228	174583	5.31	ppm	89
30) Chrysene	20.790	228	157584	3.90	ppm	97
32) Benzo[b]fluoranthene	22.398	252	215963	5.68	ppm	92
33) Benzo[k]fluoranthene	22.436	252	159024	4.57	ppm	97
34) Benzo[a]pyrene	22.849	252	153670	4.67	ppm	96
35) Indeno[1,2,3-cd]pyrene	24.448	276	183558	5.37	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	131921	4.81	ppm	54
37) Benzo[g,h,i]perylene	24.881	276	166794	4.76	ppm	89

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54961.D
Acq On : 6 Jul 2016 2:02 pm
Operator : hankc
Sample : ic2503-5
Misc : op95179a,e3p2503
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 17:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:04 2016
Response via : Initial Calibration

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

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

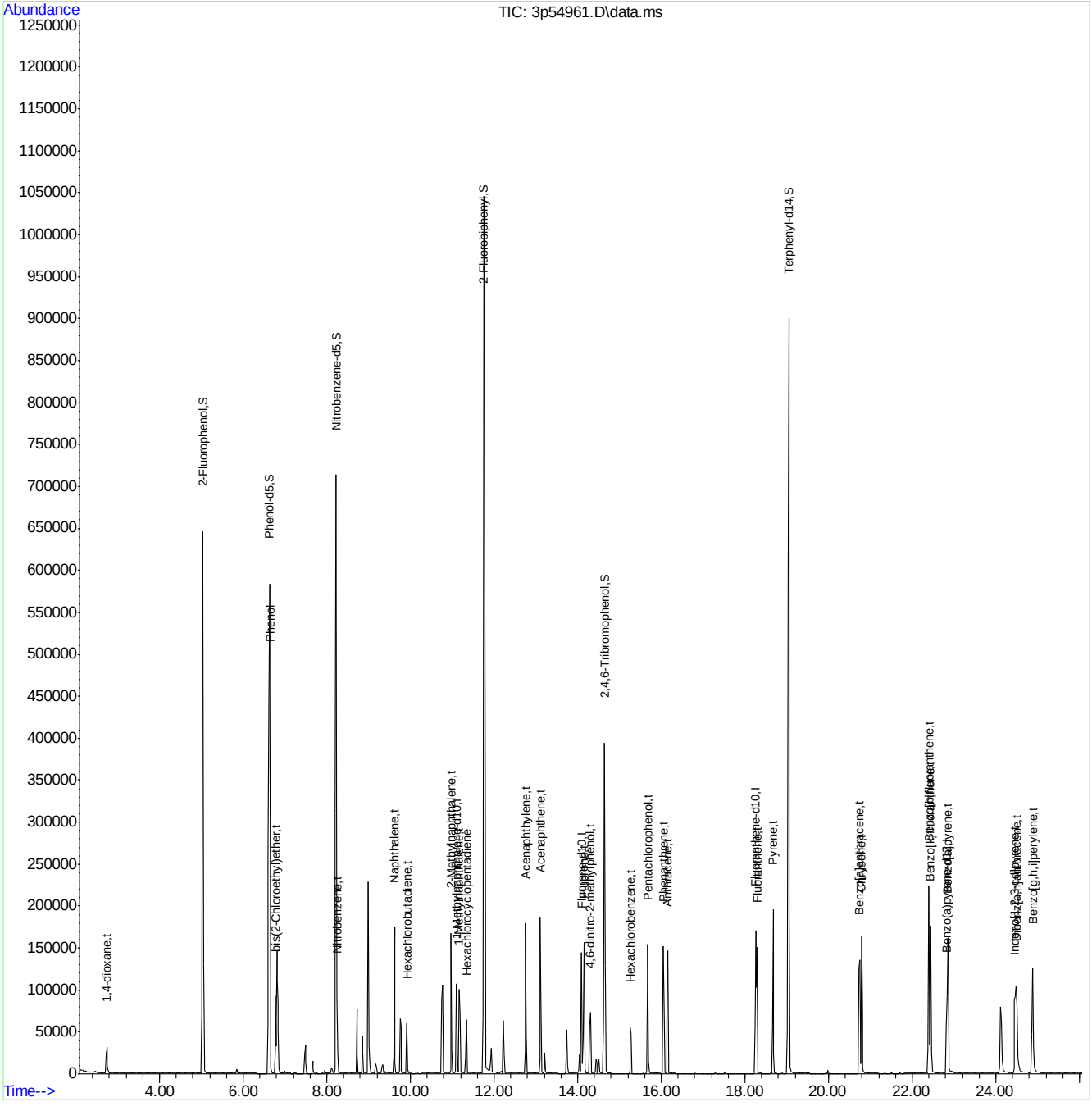
7.6.20

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54961.D
Acq On : 6 Jul 2016 2:02 pm
Operator : hankc
Sample : ic2503-5
Misc : op95179a,e3p2503
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 17:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:04 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54962.D
Acq On : 6 Jul 2016 2:33 pm
Operator : hankc
Sample : ic2503-2.5
Misc : op95179a,e3p2503
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 17:29:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	58818	4.00	ppm	# 0.00
14) Fluorene-d10	14.092	176	97541	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	156559	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	110080	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	376140	39.79	ppm	0.00
Spiked Amount 50.000			Recovery = 79.58%			
4) Phenol-d5	6.614	99	493254	38.71	ppm	-0.01
Spiked Amount 50.000			Recovery = 77.42%			
7) Nitrobenzene-d5	8.205	82	412360	41.76	ppm	-0.02
Spiked Amount 50.000			Recovery = 83.52%			
15) 2-Fluorobiphenyl	11.756	172	773441	30.12	ppm	0.00
Spiked Amount 50.000			Recovery = 60.24%			
20) 2,4,6-Tribromophenol	14.639	330	152849	51.12	ppm	0.00
Spiked Amount 50.000			Recovery = 102.24%			
28) Terphenyl-d14	19.028	244	672834	36.70	ppm	-0.02
Spiked Amount 50.000			Recovery = 73.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	14051	2.26	ppm	# 49
5) Phenol	6.627	94	109670	8.52	ppm	# 76
6) bis(2-Chloroethyl)ether	6.772	93	21874	1.99	ppm	89
8) Nitrobenzene	8.243	77	21431	1.80	ppm	75
9) Naphthalene	9.617	128	89873	2.26	ppm	94
10) Hexachlorobutadiene	9.919	225	14342	2.09	ppm	87
11) 2-Methylnaphthalene	10.977	141	48722	2.27	ppm	98
12) 1-Methylnaphthalene	11.161	141	40943	2.47	ppm	98
13) Hexachlorocyclopentadiene	11.346	237	22911	6.28	ppm	95
16) Acenaphthylene	12.751	152	86595	2.53	ppm	94
17) Acenaphthene	13.107	153	49818	2.25	ppm	86
18) 4,6-dinitro-2-methylph...	14.300	198	29862	18.16	ppm	80
19) Fluorene	14.149	166	52810	2.58	ppm	91
22) Hexachlorobenzene	15.257	284	19891	2.28	ppm	74
23) Pentachlorophenol	15.659	266	51486	15.87	ppm	86
24) Phenanthrene	16.045	178	83690	2.29	ppm	98
25) Anthracene	16.154	178	71928	2.29	ppm	90
26) Fluoranthene	18.287	202	80300	2.56	ppm	95
27) Pyrene	18.673	202	90291	2.59	ppm	92
29) Benzo[a]anthracene	20.728	228	76512	2.63	ppm	91
30) Chrysene	20.790	228	76758	2.27	ppm	98
32) Benzo[b]fluoranthene	22.398	252	97027	2.70	ppm	93
33) Benzo[k]fluoranthene	22.436	252	74773	2.41	ppm	96
34) Benzo[a]pyrene	22.849	252	68723	2.29	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	82881	2.61	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	57958	2.34	ppm	52
37) Benzo[g,h,i]perylene	24.881	276	76272	2.42	ppm	89

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54962.D
Acq On : 6 Jul 2016 2:33 pm
Operator : hankc
Sample : ic2503-2.5
Misc : op95179a,e3p2503
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 17:29:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:28 2016
Response via : Initial Calibration

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

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

7.6.21

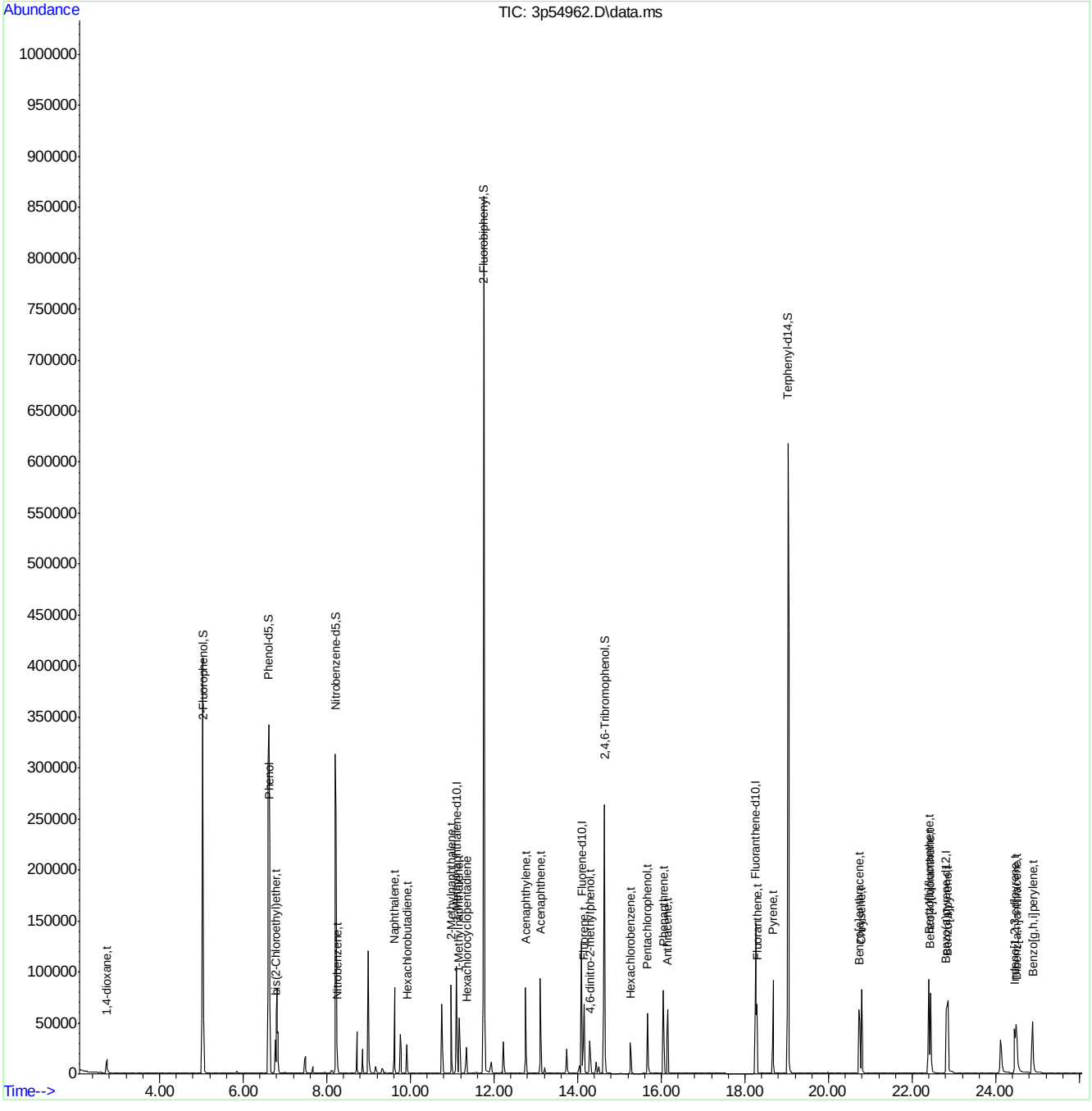
7

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54962.D
Acq On : 6 Jul 2016 2:33 pm
Operator : hankc
Sample : ic2503-2.5
Misc : op95179a,e3p2503
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 17:29:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:28 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/11/16 10:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	81223	4.00	ppm	# 0.00
14) Fluorene-d10	14.092	176	115674	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	175349	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	126215	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	115904	9.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.38%	
4) Phenol-d5	6.602	99	155488	9.18	ppm	-0.01
Spiked Amount 50.000			Recovery	=	18.36%	
7) Nitrobenzene-d5	8.205	82	128683	9.70	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.40%	
15) 2-Fluorobiphenyl	11.756	172	266716	9.29	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.58%	
20) 2,4,6-Tribromophenol	14.639	330	38410	10.77	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.54%	
28) Terphenyl-d14	19.028	244	221305	11.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	22.76%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	3525	0.42	ppm	# 42
5) Phenol	6.627	94	34474	2.03	ppm	# 62
6) bis(2-Chloroethyl)ether	6.772	93	5883	0.40	ppm	86
8) Nitrobenzene	8.243	77	6653	0.42	ppm	80
9) Naphthalene	9.617	128	23203	0.43	ppm	96
10) Hexachlorobutadiene	9.919	225	3815	0.41	ppm	87
11) 2-Methylnaphthalene	10.977	141	13042	0.45	ppm	96
12) 1-Methylnaphthalene	11.161	141	10262	0.45	ppm	97
13) Hexachlorocyclopentadiene	11.346	237	4486	0.85	ppm	95
16) Acenaphthylene	12.751	152	20901	0.51	ppm	96
17) Acenaphthene	13.107	153	12707	0.49	ppm	84
18) 4,6-dinitro-2-methylph...	14.281	198	3583	1.68	ppm	# 1
19) Fluorene	14.149	166	12043	0.49	ppm	92
22) Hexachlorobenzene	15.257	284	4853	0.50	ppm	75
23) Pentachlorophenol	15.674	266	9025	2.38	ppm	88
24) Phenanthrene	16.045	178	21809	0.54	ppm	96
25) Anthracene	16.154	178	18101	0.52	ppm	91
26) Fluoranthene	18.287	202	17629	0.50	ppm	96
27) Pyrene	18.673	202	19967	0.51	ppm	94
29) Benzo[a]anthracene	20.728	228	16414	0.50	ppm	91
30) Chrysene	20.790	228	19513	0.52	ppm	98
32) Benzo[b]fluoranthene	22.398	252	20946m	0.50	ppm	
33) Benzo[k]fluoranthene	22.436	252	17265m	0.49	ppm	
34) Benzo[a]pyrene	22.849	252	14751	0.44	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	17213	0.47	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	13842	0.49	ppm	82
37) Benzo[g,h,i]perylene	24.881	276	17492	0.49	ppm	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration

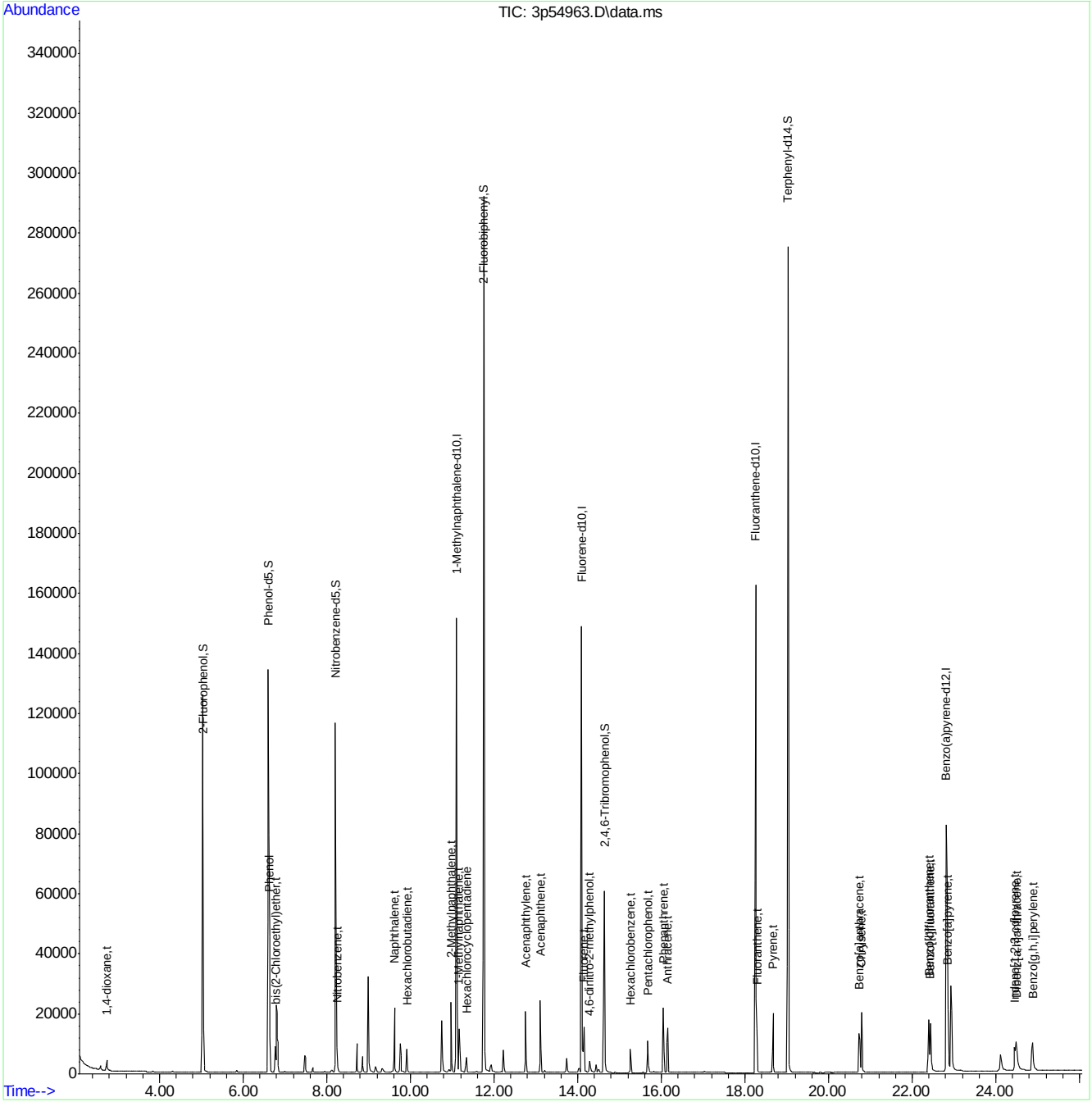
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Manual Integration Approval Summary

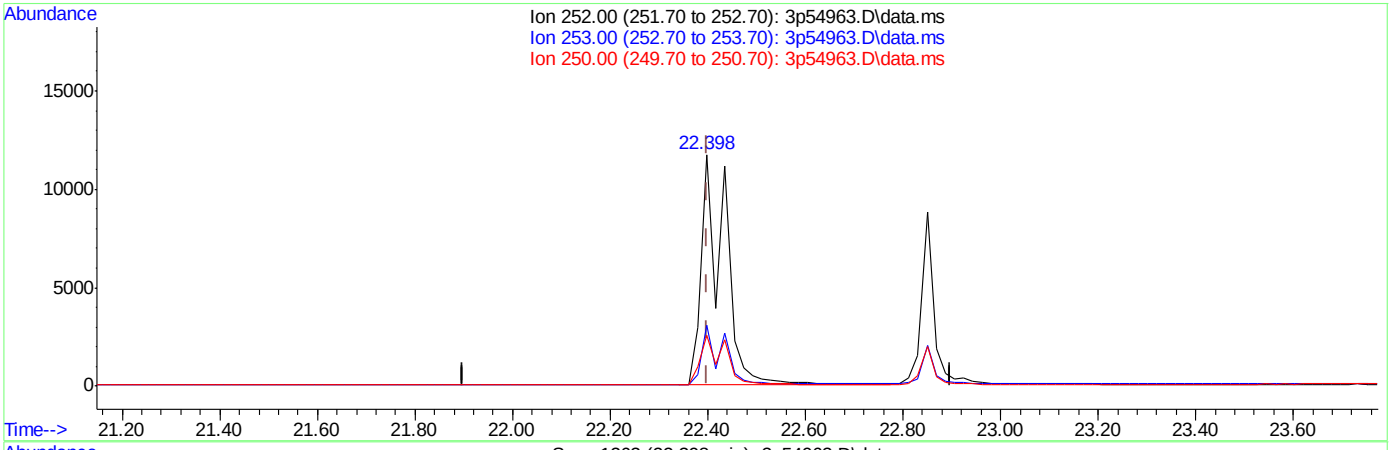
Sample Number:	E3P2503-IC2503	**Method:**	SW846 8270D BY SIM
Lab FileID:	3P54963.D	**Analyst approved:**	07/11/16 10:13 Ashley Dye
Injection Time:	07/06/16 15:04	**Supervisor approved:**	07/11/16 10:45 Nina Pandya

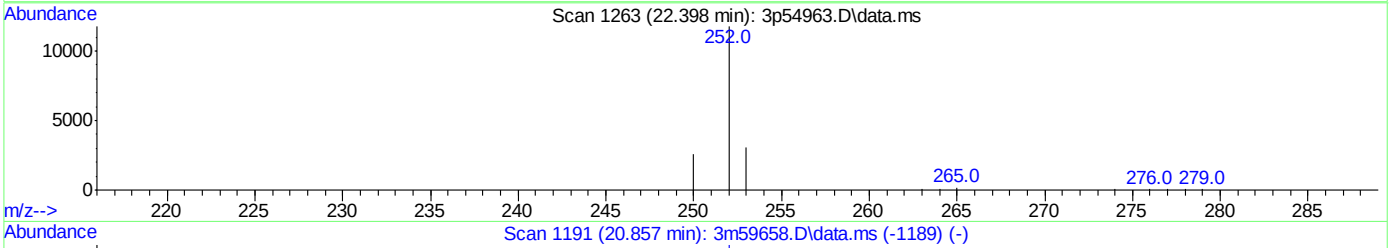
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		22.40	Overlapping peak
Benzo(k)fluoranthene	207-08-9		22.44	Overlapping peak

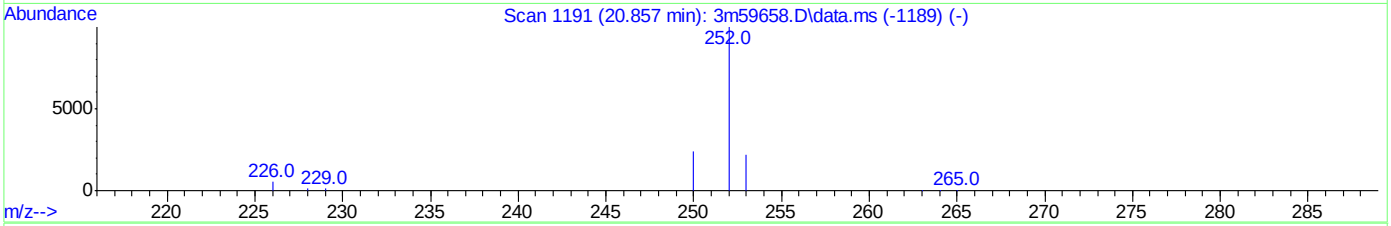
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op94978,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration







TIC: 3p54963.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (+0.000) 0.94ppm

response 39195

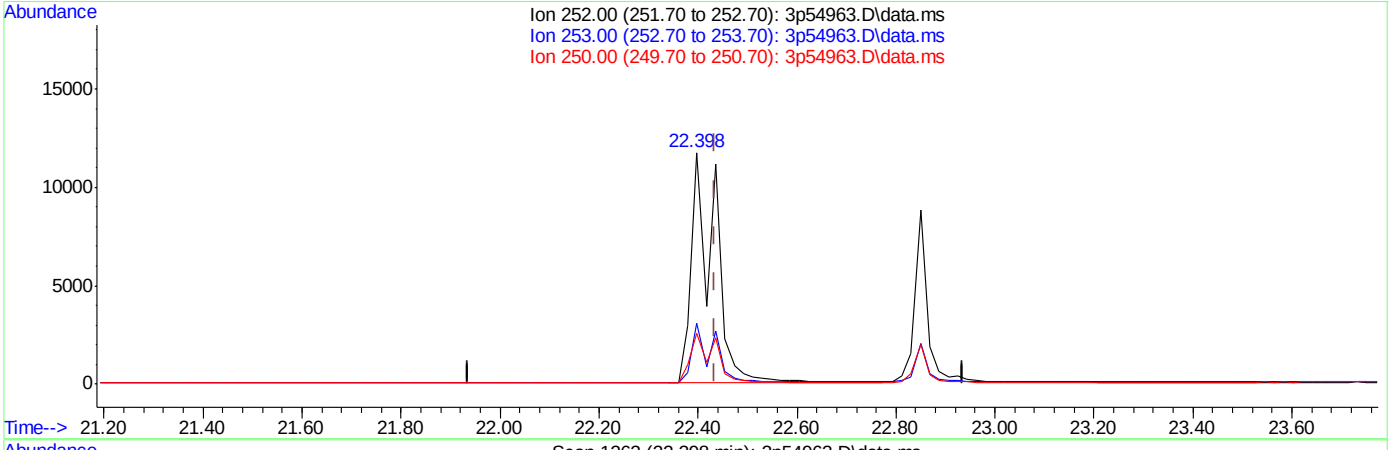
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.51
250.00	23.10	21.50
0.00	0.00	0.00

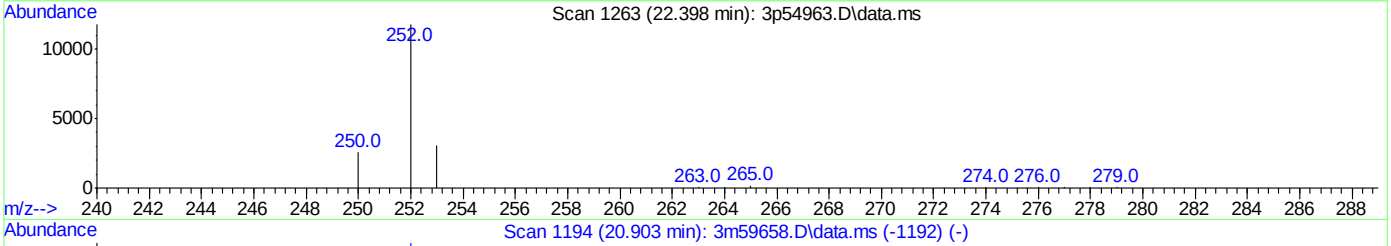
SGS ACCUTEST JC24622

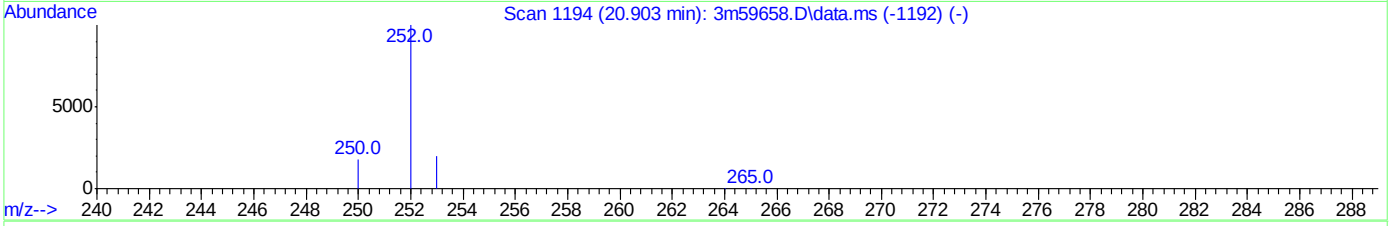
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op94978,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration







TIC: 3p54963.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.398min (-0.038) 1.11ppm

response 39195

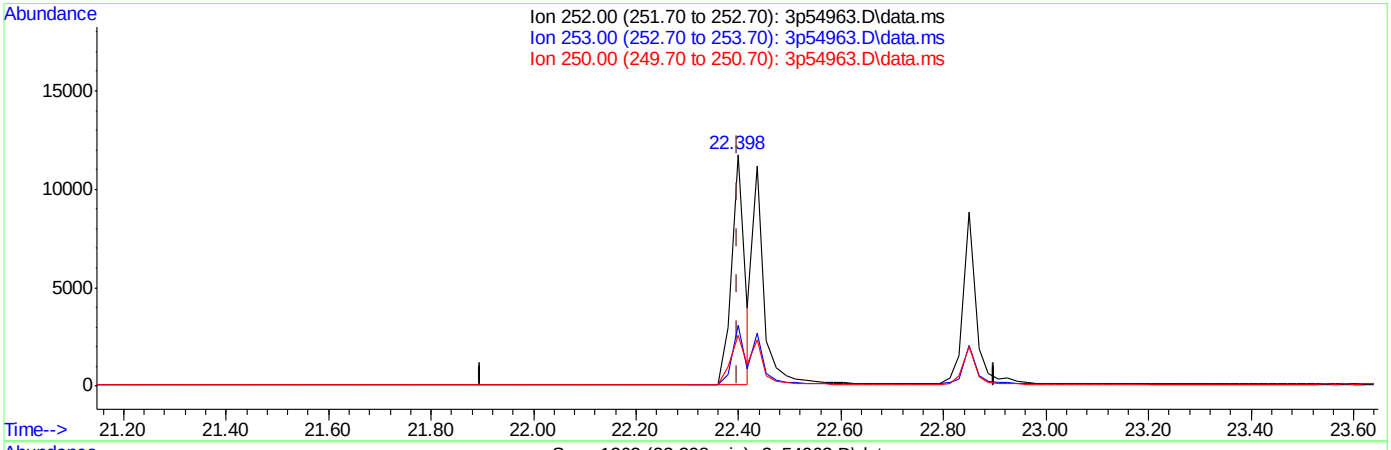
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.51
250.00	23.10	21.50
0.00	0.00	0.00

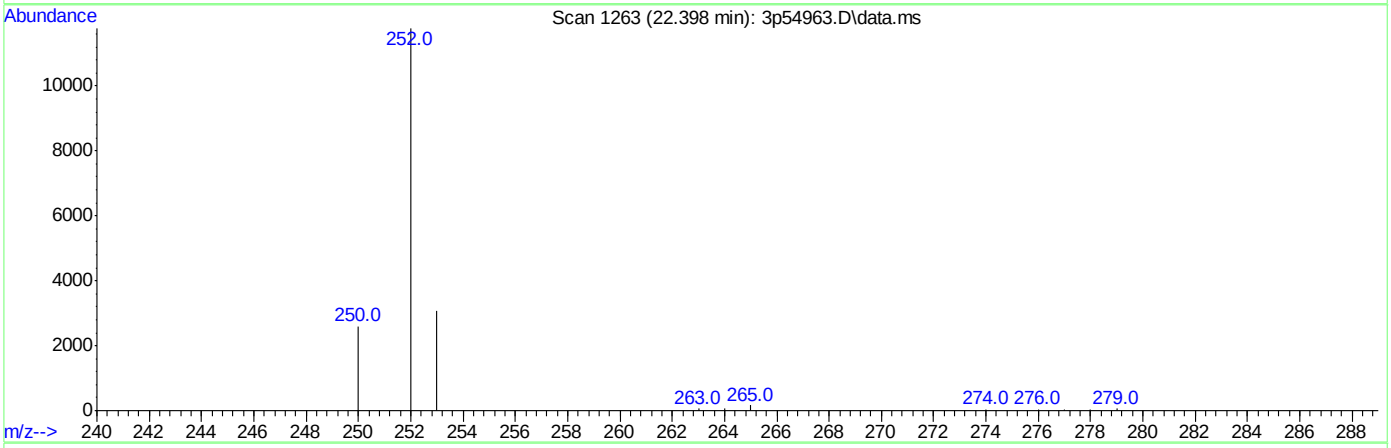
SGS ACCUTEST JC24622

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration





TIC: 3p54963.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (+0.000) 0.50ppm m

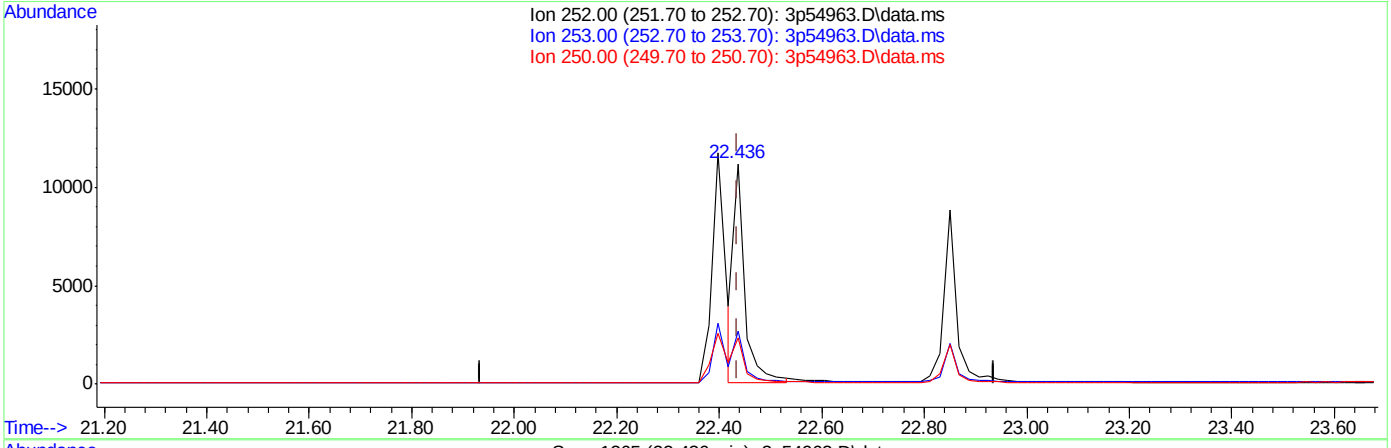
response 20946

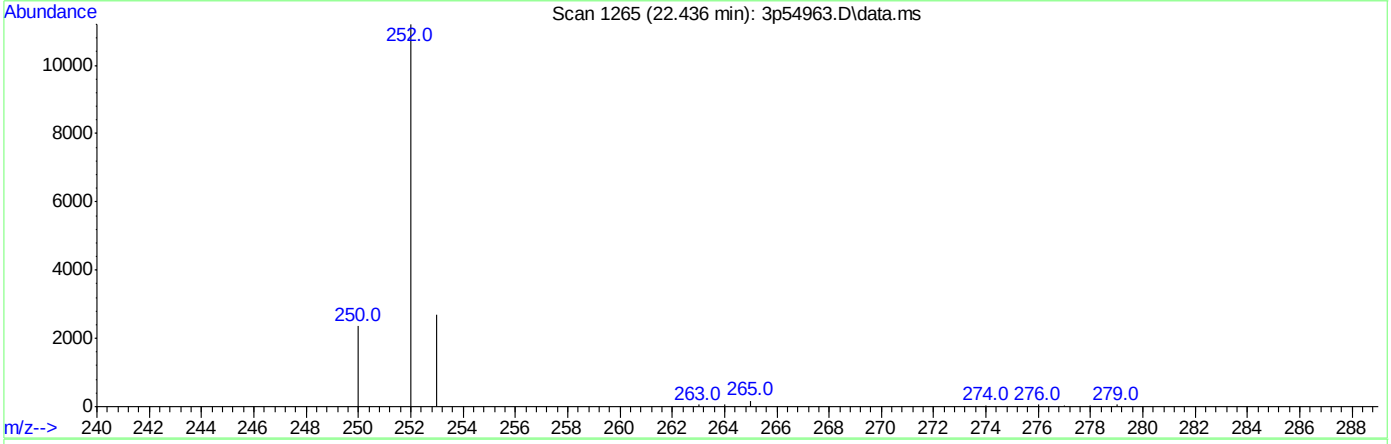
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	26.15
250.00	23.10	22.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration





TIC: 3p54963.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.436min (+0.000) 0.49ppm m

response 17265

Ion	Exp%	Act%
252.00	100	100
253.00	23.60	23.92
250.00	23.10	21.02
0.00	0.00	0.00

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54964.D
Acq On : 6 Jul 2016 5:37 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 09:41:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

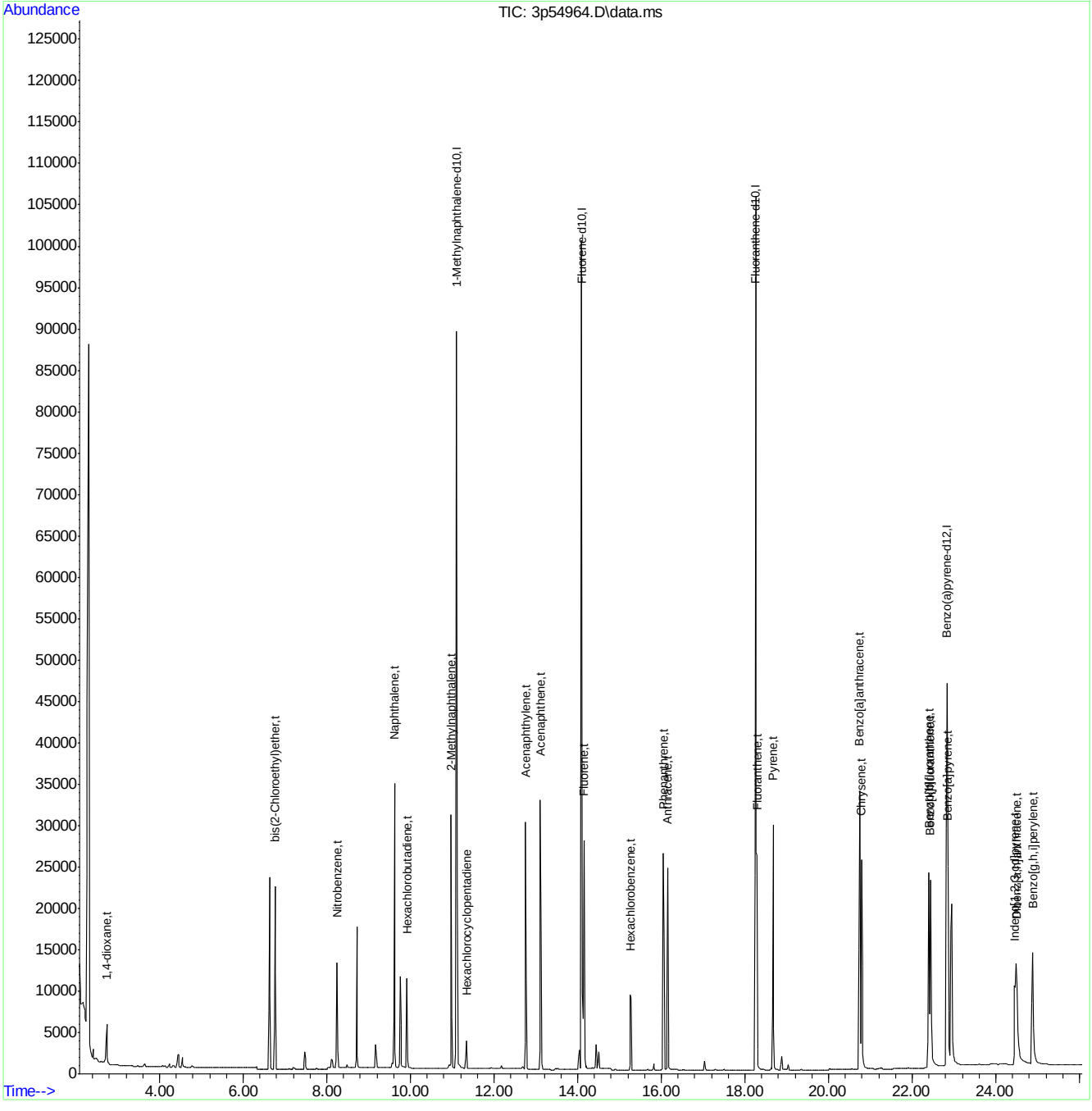
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	11.100	150	52064	4.00	ppm		0.00
14) Fluorene-d10	14.093	176	72894	4.00	ppm		0.00
21) Fluoranthene-d10	18.256	212	105662	4.00	ppm	#	0.00
31) Benzo(a)pyrene-d12	22.831	264	66096	4.00	ppm		0.00
System Monitoring 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	2.736	88	4123	0.79	ppm		58
6) bis(2-Chloroethyl)ether	6.760	93	12301	1.33	ppm	#	61
8) Nitrobenzene	8.243	77	11052	1.18	ppm		76
9) Naphthalene	9.618	128	37061	1.08	ppm		95
10) Hexachlorobutadiene	9.919	225	6032	1.04	ppm		85
11) 2-Methylnaphthalene	10.977	141	18358	1.00	ppm		92
13) Hexachlorocyclopentadiene	11.346	237	2810	0.90	ppm		99
16) Acenaphthylene	12.751	152	30926	1.20	ppm		98
17) Acenaphthene	13.107	153	19615	1.20	ppm		78
19) Fluorene	14.149	166	19330	1.26	ppm		95
22) Hexachlorobenzene	15.257	284	7137	1.22	ppm		69
24) Phenanthrene	16.046	178	30829	1.25	ppm		94
25) Anthracene	16.154	178	24958	1.19	ppm		93
26) Fluoranthene	18.287	202	27399	1.29	ppm		97
27) Pyrene	18.673	202	29057	1.22	ppm		96
29) Benzo[a]anthracene	20.744	228	26055	1.32	ppm		93
30) Chrysene	20.790	228	23433	1.04	ppm		99
32) Benzo[b]fluoranthene	22.398	252	25649	1.17	ppm		97
33) Benzo[k]fluoranthene	22.436	252	25258	1.37	ppm		96
34) Benzo[a]pyrene	22.850	252	21343	1.24	ppm		95
35) Indeno[1,2,3-cd]pyrene	24.448	276	23238	1.22	ppm		92
36) Dibenz[a,h]anthracene	24.486	278	18197	1.24	ppm		86
37) Benzo[g,h,i]perylene	24.881	276	22938	1.22	ppm		89

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54964.D
Acq On : 6 Jul 2016 5:37 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 09:41:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:09:14 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54965.D
Acq On : 6 Jul 2016 6:08 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 07 09:19:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	53847	4.00	ppm	# 0.00
14) Fluorene-d10	14.092	176	72209	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	102579	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	71944	4.00	ppm	-0.02
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
5) Phenol	6.614	94	60582	6.97	ppm	# 86
18) 4,6-dinitro-2-methylph...	14.281	198	4546	3.89	ppm	# 1
23) Pentachlorophenol	15.674	266	11230	4.41	ppm	89

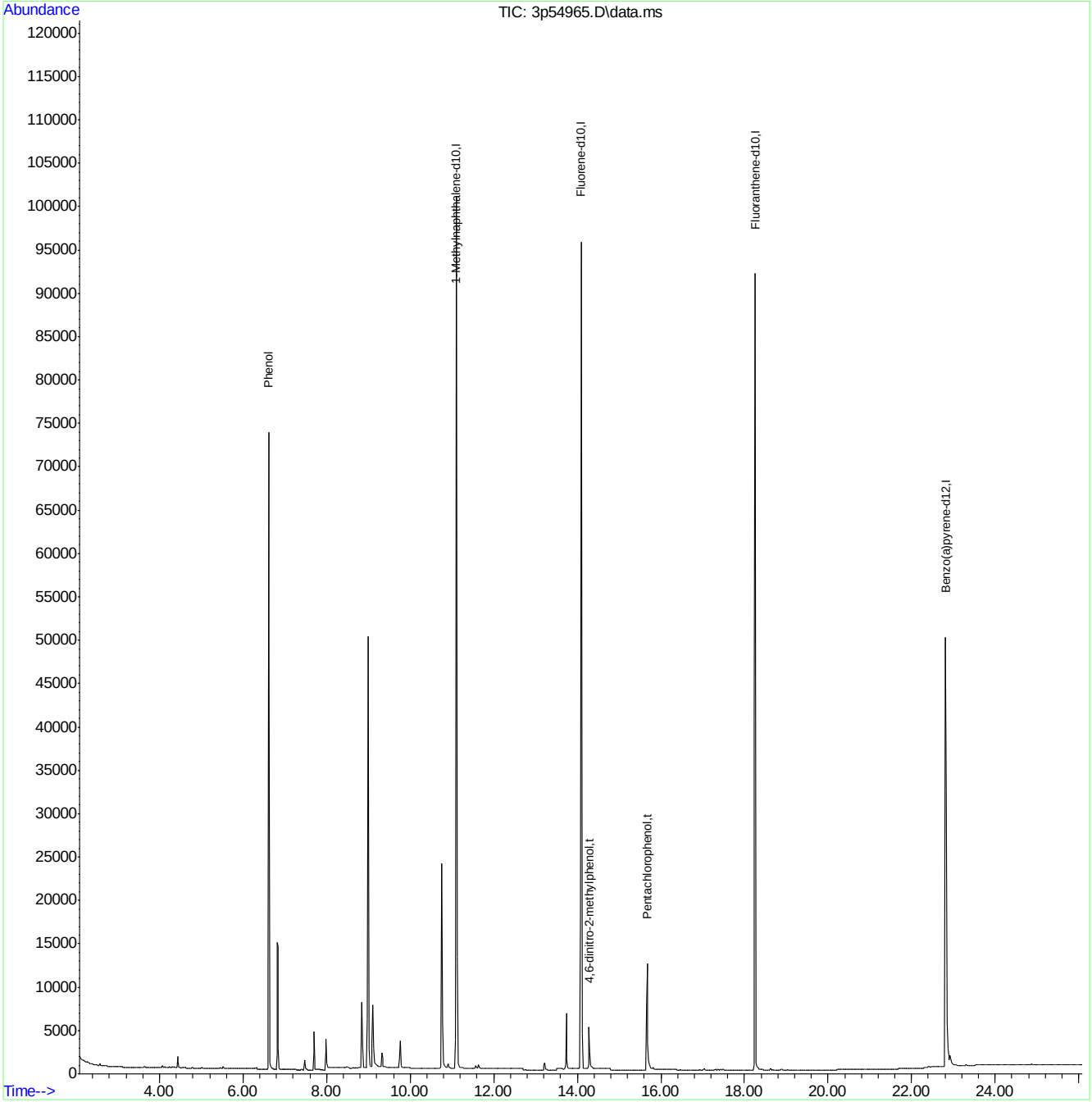
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54965.D
Acq On : 6 Jul 2016 6:08 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 07 09:19:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:09:22 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55256.D
Acq On : 26 Jul 2016 8:55 am
Operator : ashleyn
Sample : cc2503-0.5
Misc : op95775a,e3p2524
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 26 16:24:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.855	150	77256	4.00	ppm	0.00
14) Fluorene-d10	13.830	176	103616	4.00	ppm	-0.02
21) Fluoranthene-d10	18.010	212	159047	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.569	264	125885	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.838	112	126684	10.15	ppm	-0.09
Spiked Amount 50.000			Recovery = 20.30%			
4) Phenol-d5	6.409	99	163343	9.78	ppm	-0.05
Spiked Amount 50.000			Recovery = 19.56%			
7) Nitrobenzene-d5	7.981	82	144676	11.52	ppm	-0.04
Spiked Amount 50.000			Recovery = 23.04%			
15) 2-Fluorobiphenyl	11.512	172	278019	10.90	ppm	-0.04
Spiked Amount 50.000			Recovery = 21.80%			
20) 2,4,6-Tribromophenol	14.377	330	41371	12.76	ppm	0.00
Spiked Amount 50.000			Recovery = 25.52%			
28) Terphenyl-d14	18.783	244	219952	10.50	ppm	0.00
Spiked Amount 50.000			Recovery = 21.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.566	88	4485	0.58	ppm	82
5) Phenol	6.421	94	37526	2.76	ppm #	78
6) bis(2-Chloroethyl)ether	6.554	93	6779	0.49	ppm	86
8) Nitrobenzene	8.019	77	7502	0.54	ppm	88
9) Naphthalene	9.374	128	24561	0.48	ppm	99
10) Hexachlorobutadiene	9.676	225	3649	0.42	ppm	71
11) 2-Methylnaphthalene	10.732	141	12723	0.47	ppm	88
12) 1-Methylnaphthalene	10.917	141	10565	0.49	ppm	96
13) Hexachlorocyclopentadiene	11.102	237	4609	0.98	ppm	97
16) Acenaphthylene	12.496	152	18503	0.51	ppm	60
17) Acenaphthene	12.861	153	13568	0.59	ppm	94
18) 4,6-dinitro-2-methylph...	14.038	198	5516	3.42	ppm #	1
19) Fluorene	13.887	166	13063	0.60	ppm	92
22) Hexachlorobenzene	14.996	284	4894	0.56	ppm	72
23) Pentachlorophenol	15.413	266	9775	2.60	ppm	90
24) Phenanthrene	15.784	178	21697	0.59	ppm	95
25) Anthracene	15.892	178	17066	0.54	ppm	93
26) Fluoranthene	18.026	202	18093	0.57	ppm	94
27) Pyrene	18.427	202	19927	0.56	ppm	89
29) Benzo[a]anthracene	20.483	228	17125	0.57	ppm	88
30) Chrysene	20.544	228	20127	0.59	ppm	95
32) Benzo[b]fluoranthene	22.151	252	21070	0.51	ppm	99
33) Benzo[k]fluoranthene	22.182	252	17130	0.49	ppm	83
34) Benzo[a]pyrene	22.588	252	13633	0.41	ppm	92
35) Indeno[1,2,3-cd]pyrene	24.130	276	20344	0.56	ppm	93
36) Dibenz[a,h]anthracene	24.168	278	16191	0.58	ppm	54
37) Benzo[g,h,i]perylene	24.525	276	17984	0.50	ppm	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55256.D
Acq On : 26 Jul 2016 8:55 am
Operator : ashleyn
Sample : cc2503-0.5
Misc : op95775a,e3p2524
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 26 16:24:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

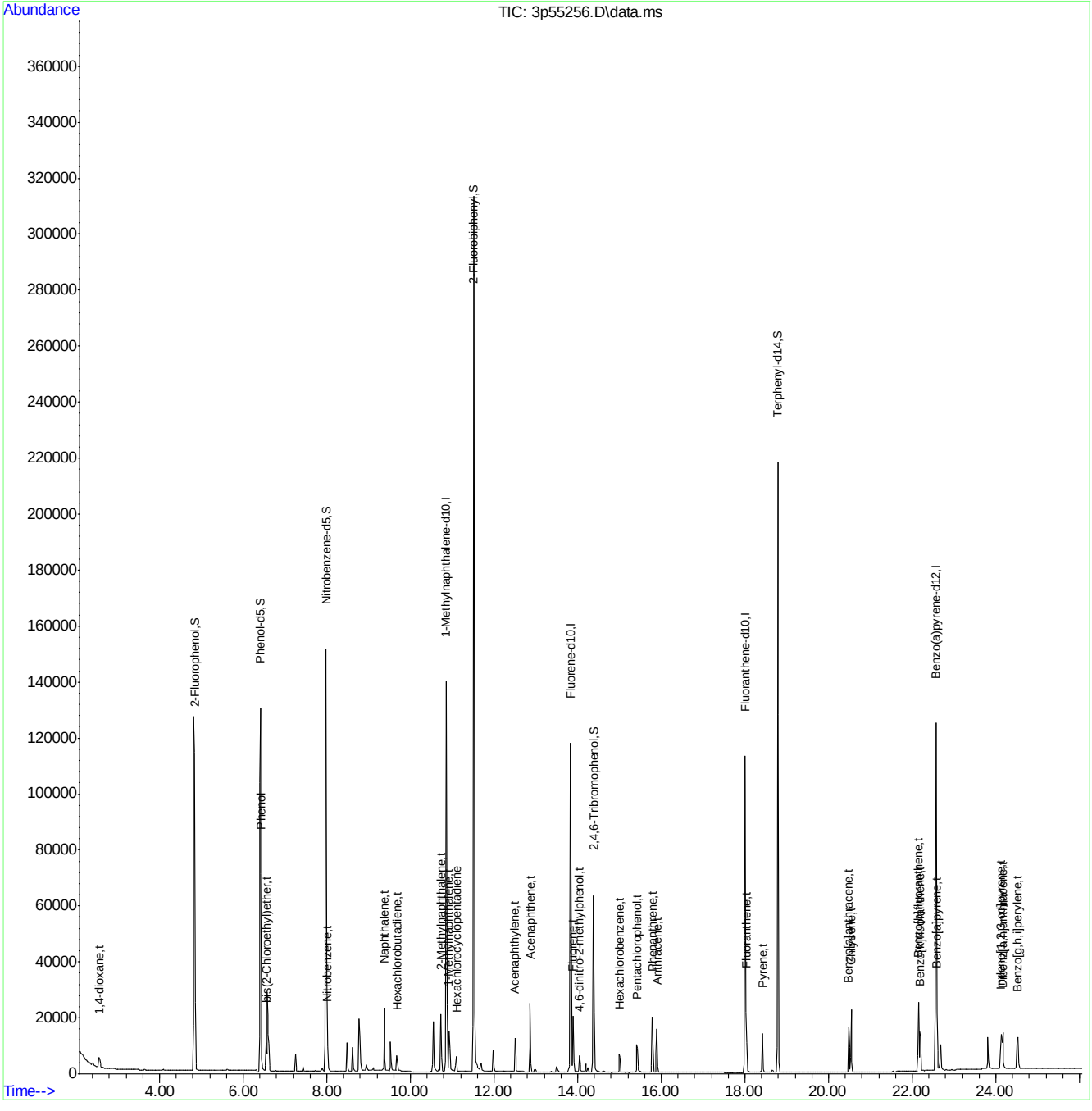
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2524\
Data File : 3p55256.D
Acq On : 26 Jul 2016 8:55 am
Operator : ashleyn
Sample : cc2503-0.5
Misc : op95775a,e3p2524
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 26 16:24:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55401.D
Acq On : 2 Aug 2016 9:07 am
Operator : ashleyd
Sample : cc2503-1
Misc : op95837a,e3p2534
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:12:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.768	150	66646	4.00	ppm		0.00
14) Fluorene-d10	13.739	176	111093	4.00	ppm		0.00
21) Fluoranthene-d10	17.905	212	168107	4.00	ppm		0.00
31) Benzo(a)pyrene-d12	22.478	264	123544	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	4.760	112	218707	20.32	ppm		-0.13
Spiked Amount 50.000			Recovery = 40.64%				
4) Phenol-d5	6.328	99	280337	19.46	ppm		-0.08
Spiked Amount 50.000			Recovery = 38.92%				
7) Nitrobenzene-d5	7.895	82	237820	21.95	ppm		-0.06
Spiked Amount 50.000			Recovery = 43.90%				
15) 2-Fluorobiphenyl	11.412	172	477247	17.46	ppm		-0.05
Spiked Amount 50.000			Recovery = 34.92%				
20) 2,4,6-Tribromophenol	14.286	330	74527	21.43	ppm		0.01
Spiked Amount 50.000			Recovery = 42.86%				
28) Terphenyl-d14	18.693	244	375460	16.96	ppm		0.03
Spiked Amount 50.000			Recovery = 33.92%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.489	88	8029	1.20	ppm		77
5) Phenol	6.352	94	62643	5.71	ppm	#	66
6) bis(2-Chloroethyl)ether	6.461	93	11288	0.95	ppm		89
8) Nitrobenzene	7.914	77	11460	0.95	ppm	#	58
9) Naphthalene	9.288	128	40700	0.93	ppm		92
10) Hexachlorobutadiene	9.589	225	6694	0.90	ppm		96
11) 2-Methylnaphthalene	10.648	141	19261	0.82	ppm	#	69
12) 1-Methylnaphthalene	10.815	141	19187	1.04	ppm		95
13) Hexachlorocyclopentadiene	11.006	237	7360	1.66	ppm		92
16) Acenaphthylene	12.391	152	31156	0.80	ppm		96
17) Acenaphthene	12.756	153	26218	1.06	ppm		88
18) 4,6-dinitro-2-methylph...	13.947	198	13135	6.29	ppm	#	47
19) Fluorene	13.796	166	22608	0.97	ppm		90
22) Hexachlorobenzene	14.906	284	8621	0.93	ppm		96
23) Pentachlorophenol	15.323	266	18713	4.48	ppm		98
24) Phenanthrene	15.679	178	39133	1.00	ppm		100
25) Anthracene	15.787	178	31815	0.95	ppm		99
26) Fluoranthene	17.936	202	34543	1.02	ppm		99
27) Pyrene	18.322	202	38835	1.03	ppm		98
29) Benzo[a]anthracene	20.393	228	35173	1.12	ppm		100
30) Chrysene	20.455	228	33910	0.94	ppm		99
32) Benzo[b]fluoranthene	22.062	252	40114	0.98	ppm		99
33) Benzo[k]fluoranthene	22.092	252	32241	0.94	ppm		98
34) Benzo[a]pyrene	22.497	252	26874	0.83	ppm		95
35) Indeno[1,2,3-cd]pyrene	24.020	276	37095	1.04	ppm		93
36) Dibenz[a,h]anthracene	24.058	278	28874	1.05	ppm		54
37) Benzo[g,h,i]perylene	24.397	276	32401	0.92	ppm		88

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55401.D
Acq On : 2 Aug 2016 9:07 am
Operator : ashleyd
Sample : cc2503-1
Misc : op95837a,e3p2534
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:12:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

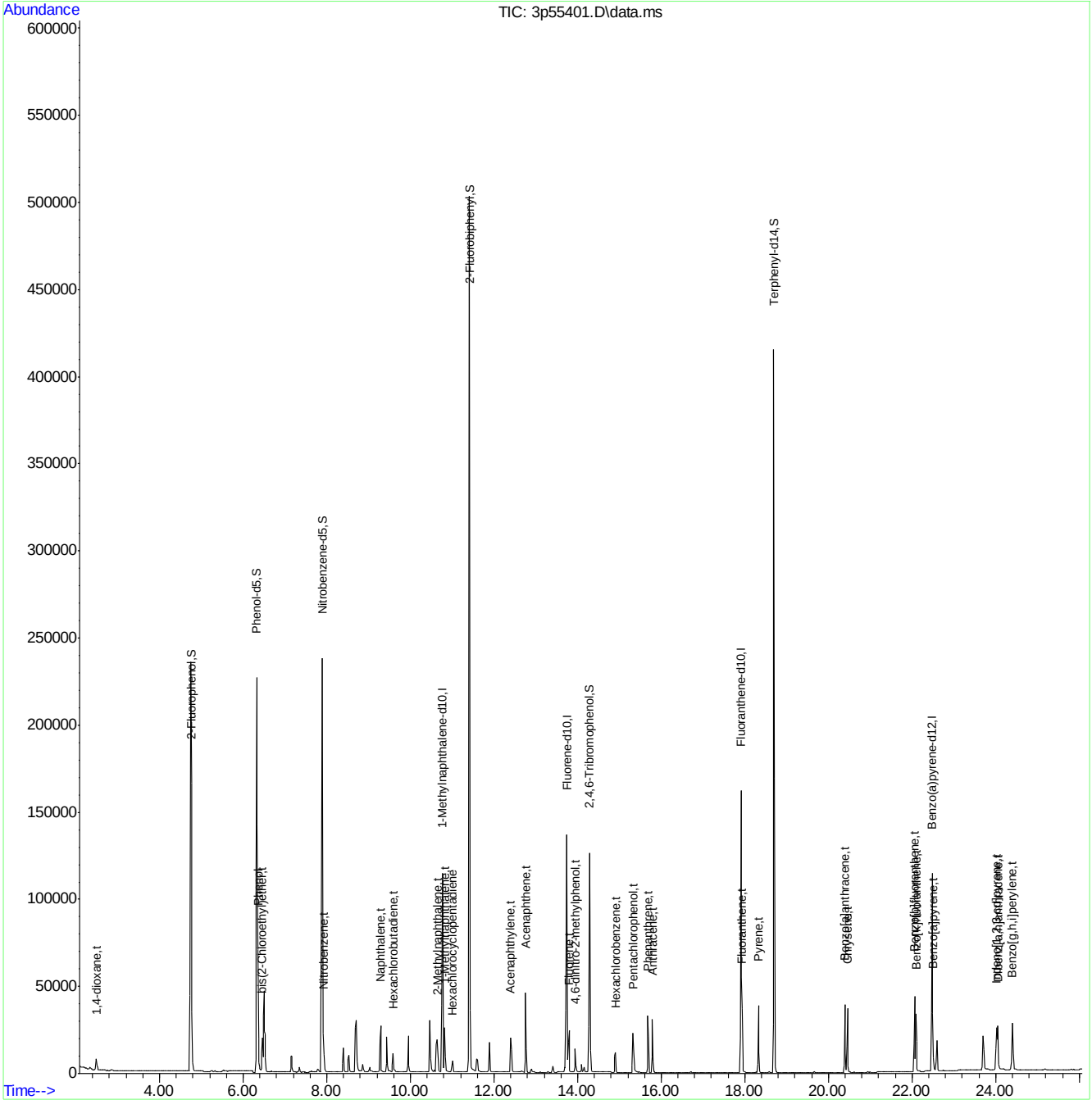
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55401.D
Acq On : 2 Aug 2016 9:07 am
Operator : ashleyd
Sample : cc2503-1
Misc : op95837a,e3p2534
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:12:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration



M3P2503SIM.M Tue Aug 02 12:12:54 2016 Page: 3

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67123.D
Acq On : 3 Aug 2016 4:19 pm
Operator : juliusj
Sample : ic3032-1.0
Misc : op95453a,e4m3032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 09:04:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.688	152	136859	4.00	ppm	#	0.00
12) Fluorene-d10	13.660	176	244828	4.00	ppm		0.00
22) Fluoranthene-d10	17.835	212	318318	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	22.407	264	266629	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	10.688	152	136859	4.00	ppm	#	0.00
38) Fluorene-d10a	13.660	176	244828	4.00	ppm	#	0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.828	112	360879	20.00	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 40.00%				
3) Phenol-d5	6.273	99	554135	20.00	ppm		0.00
Spiked Amount 50.000			Recovery = 40.00%				
6) Nitrobenzene-d5	7.823	82	451402	20.00	ppm		0.00
Spiked Amount 50.000			Recovery = 40.00%				
11) 2-Fluorobiphenyl	11.333	172	913774	20.00	ppm		0.00
Spiked Amount 50.000			Recovery = 40.00%				
17) 2,4,6-Tribromophenol	14.209	330	144781	20.00	ppm		0.00
Spiked Amount 50.000			Recovery = 40.00%				
25) Terphenyl-d14	18.606	244	839658	20.00	ppm		0.00
Spiked Amount 50.000			Recovery = 40.00%				
Target Compounds							Qvalue
4) Phenol	6.301	94	149727	5.00	ppm		85
5) bis(2-Chloroethyl)ether	6.439	93	22248	1.00	ppm	#	53
7) Naphthalene	9.200	128	79354	1.00	ppm		98
8) Hexachlorobutadiene	9.509	225	11153	1.00	ppm		88
9) 2-Methylnaphthalene	10.569	142	31531	1.00	ppm		86
10) Hexachlorocyclopentadiene	10.927	237	11042	2.00	ppm		83
13) Acenaphthylene	12.320	152	67547	1.00	ppm		87
14) Acenaphthene	12.675	153	40807	1.00	ppm		78
15) Dibenzofuran	13.030	168	53567	1.00	ppm		76
16) Fluorene	13.707	166	62699	1.00	ppm		88
18) Hexachlorobenzene	14.819	284	13555	1.00	ppm		81
19) Pentachlorophenol	15.255	266	34441	5.00	ppm		98
20) Phenanthrene	15.609	178	92596	1.00	ppm		95
21) Anthracene	15.718	178	92555	1.00	ppm		88
23) Fluoranthene	17.853	202	89971	1.00	ppm		90
24) Pyrene	18.249	202	87500	1.00	ppm		84
26) Benzo[a]anthracene	20.320	228	80782	1.00	ppm	#	94
27) Chrysene	20.376	228	77652	1.00	ppm		91
29) Benzo[b]fluoranthene	21.980	252	90773	1.00	ppm		91
30) Benzo[k]fluoranthene	22.021	252	62441	1.00	ppm		93
31) Benzo[a]pyrene	22.435	252	69859	1.00	ppm		99
32) Indeno[1,2,3-cd]pyrene	24.032	276	86015	1.00	ppm		99
33) Dibenz[a,h]anthracene	24.073	278	72848	1.00	ppm		95
34) Benzo[g,h,i]perylene	24.459	276	74539	1.00	ppm		100
36) 1,4-Dioxane	2.749	88	7809	1.04	ppm		76
37) 1-Methylnaphthalene	10.736	142	33390	1.00	ppm		98
39) 4,6-dinitro-2-methylph...	13.875	198	26071	5.00	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67123.D
Acq On : 3 Aug 2016 4:19 pm
Operator : juliusj
Sample : ic3032-1.0
Misc : op95453a,e4m3032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 09:04:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	14.066	77	52878	1.00	ppm	91
41) n-nitrosodiphenylamine	14.018	169	30200	1.00	ppm	99

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

7.6.27

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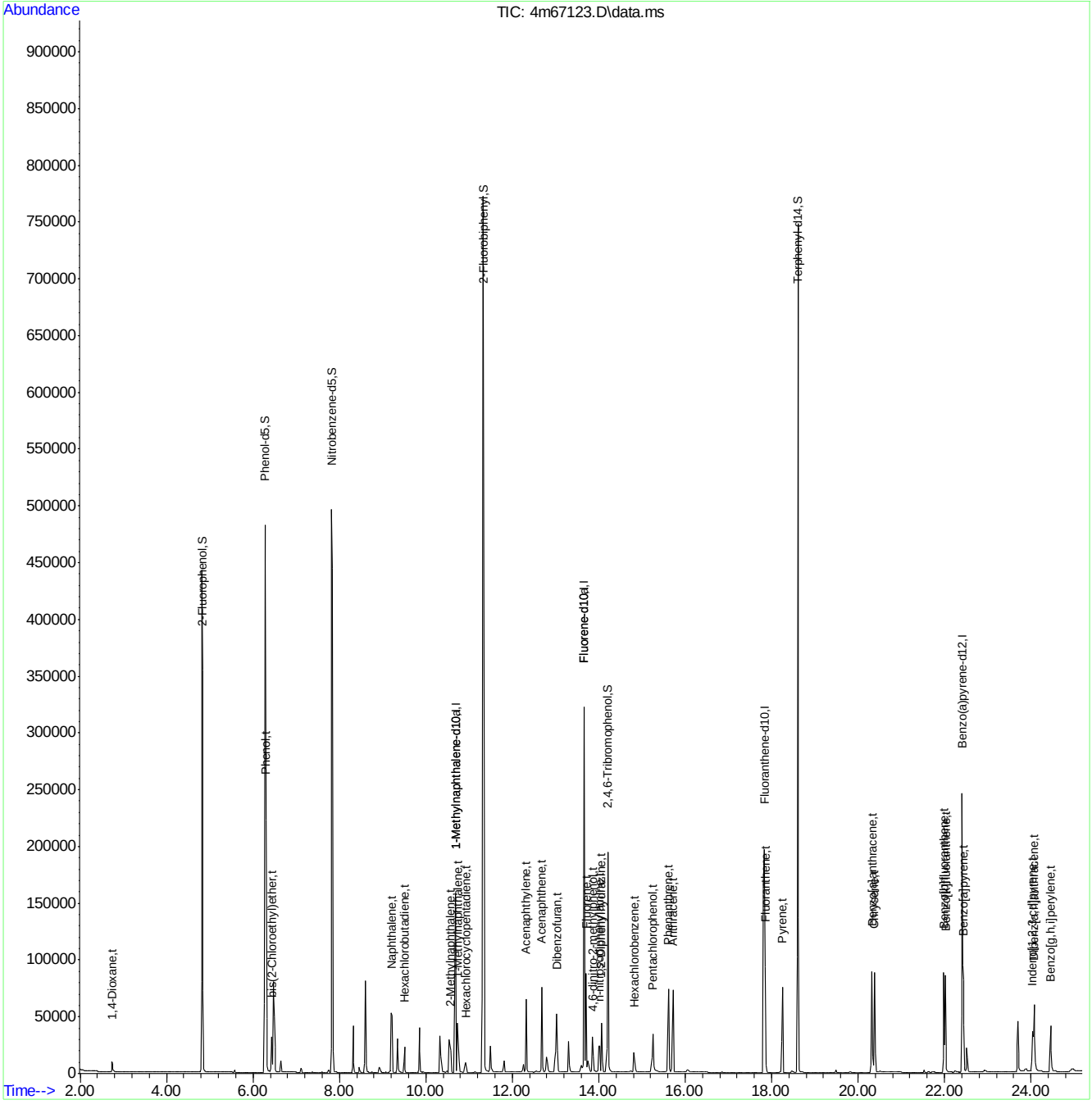
SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67123.D
Acq On : 3 Aug 2016 4:19 pm
Operator : juliusj
Sample : ic3032-1.0
Misc : op95453a,e4m3032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 09:04:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration



M4M3032SIM.M Thu Aug 04 10:09:53 2016 MANAGER Page: 3

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67124.D
Acq On : 3 Aug 2016 4:50 pm
Operator : juliusj
Sample : icc3032-0.5
Misc : op95453a,e4m3032
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 04 09:05:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.688	152	141031	4.00	ppm	#	0.00
12) Fluorene-d10	13.659	176	264548	4.00	ppm		0.00
22) Fluoranthene-d10	17.834	212	334590	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	22.407	264	283066	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	10.688	152	141031	4.00	ppm	#	0.00
38) Fluorene-d10a	13.659	176	264548	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.828	112	230885	12.42	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 24.84%				
3) Phenol-d5	6.273	99	354149	12.40	ppm		0.00
Spiked Amount 50.000			Recovery = 24.80%				
6) Nitrobenzene-d5	7.823	82	286166	12.30	ppm		0.00
Spiked Amount 50.000			Recovery = 24.60%				
11) 2-Fluorobiphenyl	11.332	172	537919	11.43	ppm		0.00
Spiked Amount 50.000			Recovery = 22.86%				
17) 2,4,6-Tribromophenol	14.209	330	81985	10.48	ppm		0.00
Spiked Amount 50.000			Recovery = 20.96%				
25) Terphenyl-d14	18.606	244	539437	12.22	ppm		0.00
Spiked Amount 50.000			Recovery = 24.44%				
Target Compounds							Qvalue
4) Phenol	6.301	94	93982	3.05	ppm		84
5) bis(2-Chloroethyl)ether	6.438	93	14183	0.62	ppm	#	52
7) Naphthalene	9.200	128	49605	0.61	ppm		99
8) Hexachlorobutadiene	9.509	225	6928	0.60	ppm		86
9) 2-Methylnaphthalene	10.545	142	19836	0.61	ppm	#	58
10) Hexachlorocyclopentadiene	10.927	237	5389	0.95	ppm		82
13) Acenaphthylene	12.320	152	41595	0.57	ppm		86
14) Acenaphthene	12.675	153	25575	0.58	ppm		75
15) Dibenzofuran	13.030	168	33806	0.58	ppm		83
16) Fluorene	13.707	166	39819	0.59	ppm		86
18) Hexachlorobenzene	14.819	284	8954	0.61	ppm		82
19) Pentachlorophenol	15.255	266	19083	2.56	ppm		97
20) Phenanthrene	15.609	178	59916	0.60	ppm		94
21) Anthracene	15.718	178	53448	0.53	ppm		88
23) Fluoranthene	17.853	202	55636	0.59	ppm		90
24) Pyrene	18.249	202	53485	0.58	ppm		85
26) Benzo[a]anthracene	20.320	228	47323	0.56	ppm	#	93
27) Chrysene	20.376	228	46730	0.57	ppm		90
29) Benzo[b]fluoranthene	21.980	252	55866	0.58	ppm		91
30) Benzo[k]fluoranthene	22.021	252	38554	0.58	ppm		92
31) Benzo[a]pyrene	22.434	252	42986	0.58	ppm		99
32) Indeno[1,2,3-cd]pyrene	24.032	276	54822	0.60	ppm		99
33) Dibenz[a,h]anthracene	24.073	278	45798	0.59	ppm		96
34) Benzo[g,h,i]perylene	24.458	276	47693	0.60	ppm		100
36) 1,4-Dioxane	2.749	88	5486	0.68	ppm		79
37) 1-Methylnaphthalene	10.736	142	20899	0.61	ppm		96
39) 4,6-dinitro-2-methylph...	13.874	198	12822	2.28	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67124.D
Acq On : 3 Aug 2016 4:50 pm
Operator : juliusj
Sample : icc3032-0.5
Misc : op95453a,e4m3032
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 04 09:05:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	14.066	77	31496	0.55 ppm	92
41) n-nitrosodiphenylamine	14.018	169	18729	0.57 ppm	99

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

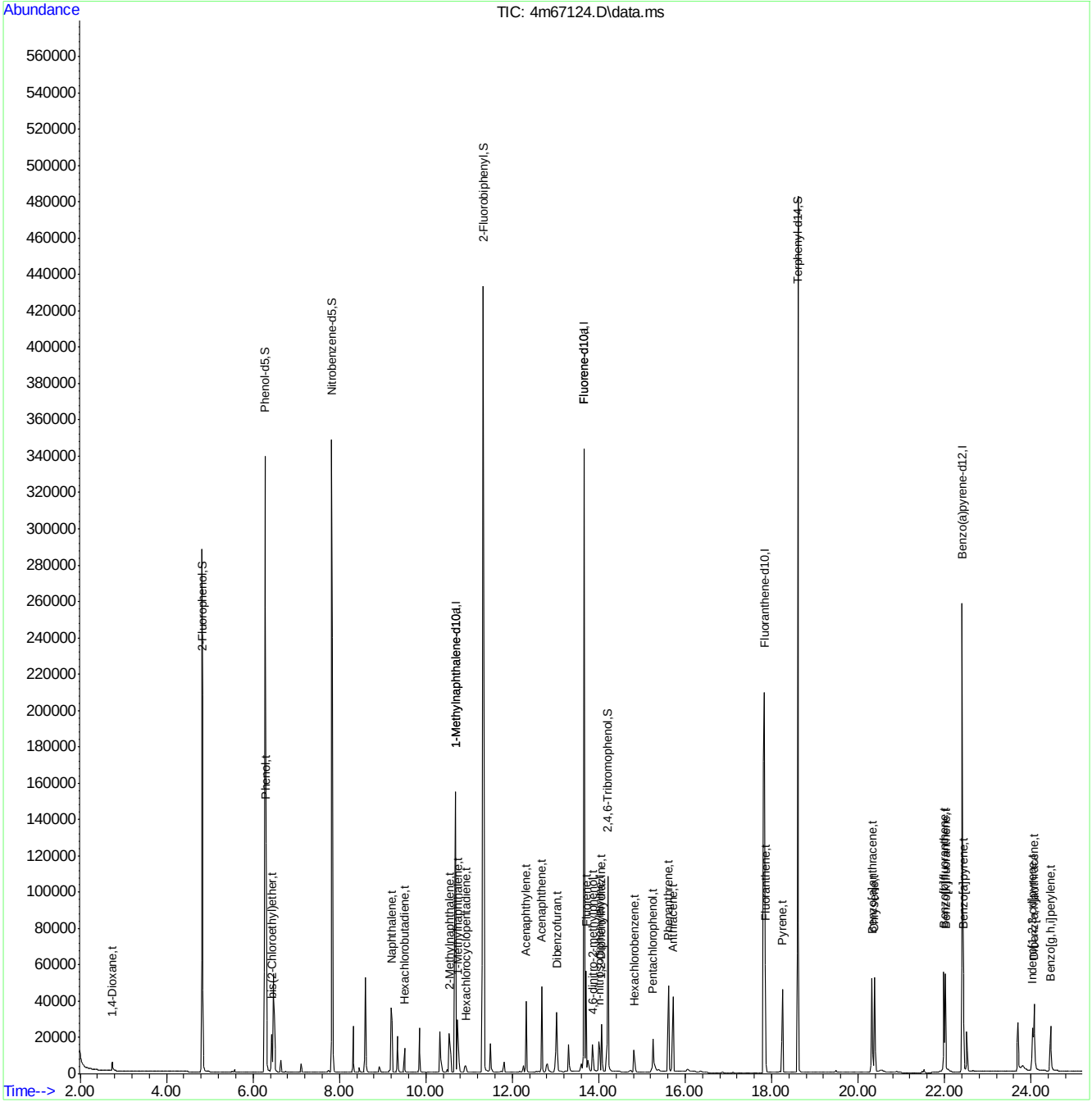
7.6.28

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67124.D
Acq On : 3 Aug 2016 4:50 pm
Operator : juliusj
Sample : icc3032-0.5
Misc : op95453a,e4m3032
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 04 09:05:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67125.D
Acq On : 3 Aug 2016 5:22 pm
Operator : juliusj
Sample : ic3032-0.2
Misc : op95453a,e4m3032
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 04 09:06:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.688	152	137207	4.00	ppm	#	0.00
12) Fluorene-d10	13.659	176	261451	4.00	ppm		0.00
22) Fluoranthene-d10	17.816	212	326628	4.00	ppm		-0.02
28) Benzo(a)pyrene-d12	22.407	264	283122	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	10.688	152	137207	4.00	ppm	#	0.00
38) Fluorene-d10a	13.659	176	261451	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.828	112	82574	4.07	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	8.14%#		
3) Phenol-d5	6.273	99	124553	4.00	ppm		0.00
Spiked Amount 50.000			Recovery	=	8.00%		
6) Nitrobenzene-d5	7.823	82	98576	3.91	ppm		0.00
Spiked Amount 50.000			Recovery	=	7.82%		
11) 2-Fluorobiphenyl	11.332	172	183097	3.73	ppm		0.00
Spiked Amount 50.000			Recovery	=	7.46%		
17) 2,4,6-Tribromophenol	14.209	330	27617	3.49	ppm		0.00
Spiked Amount 50.000			Recovery	=	6.98%		
25) Terphenyl-d14	18.606	244	202050	4.22	ppm		0.00
Spiked Amount 50.000			Recovery	=	8.44%		
Target Compounds							Qvalue
4) Phenol	6.301	94	33089	0.99	ppm		86
5) bis(2-Chloroethyl)ether	6.438	93	4991	0.20	ppm	#	52
7) Naphthalene	9.200	128	17789	0.20	ppm		99
8) Hexachlorobutadiene	9.509	225	2464	0.20	ppm		86
9) 2-Methylnaphthalene	10.545	142	6902	0.20	ppm	#	59
10) Hexachlorocyclopentadiene	10.927	237	1313	0.24	ppm		80
13) Acenaphthylene	12.320	152	13608	0.18	ppm		86
14) Acenaphthene	12.675	153	8844	0.19	ppm		77
15) Dibenzofuran	13.030	168	11753	0.19	ppm		93
16) Fluorene	13.707	166	13755	0.19	ppm		85
18) Hexachlorobenzene	14.819	284	3231	0.20	ppm		83
19) Pentachlorophenol	15.255	266	5450	0.73	ppm		87
20) Phenanthrene	15.609	178	20454	0.19	ppm		95
21) Anthracene	15.718	178	17662	0.17	ppm		88
23) Fluoranthene	17.853	202	19503	0.19	ppm		89
24) Pyrene	18.249	202	18366	0.19	ppm		86
26) Benzo[a]anthracene	20.320	228	17085	0.19	ppm	#	93
27) Chrysene	20.376	228	16941	0.20	ppm		92
29) Benzo[b]fluoranthene	21.980	252	20175	0.19	ppm		92
30) Benzo[k]fluoranthene	22.021	252	12985	0.18	ppm		91
31) Benzo[a]pyrene	22.434	252	16689	0.21	ppm		99
32) Indeno[1,2,3-cd]pyrene	24.032	276	19284	0.19	ppm		99
33) Dibenz[a,h]anthracene	24.073	278	16514	0.20	ppm		93
34) Benzo[g,h,i]perylene	24.458	276	16802	0.19	ppm		100
36) 1,4-Dioxane	2.749	88	2084	0.23	ppm		87
37) 1-Methylnaphthalene	10.736	142	7560	0.20	ppm		97
39) 4,6-dinitro-2-methylph...	13.874	198	3253	0.61	ppm		73

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67125.D
Acq On : 3 Aug 2016 5:22 pm
Operator : juliusj
Sample : ic3032-0.2
Misc : op95453a,e4m3032
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 04 09:06:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	14.066	77	10190	0.17	ppm	91
41) n-nitrosodiphenylamine	14.018	169	6316	0.18	ppm	98

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

7.6.29

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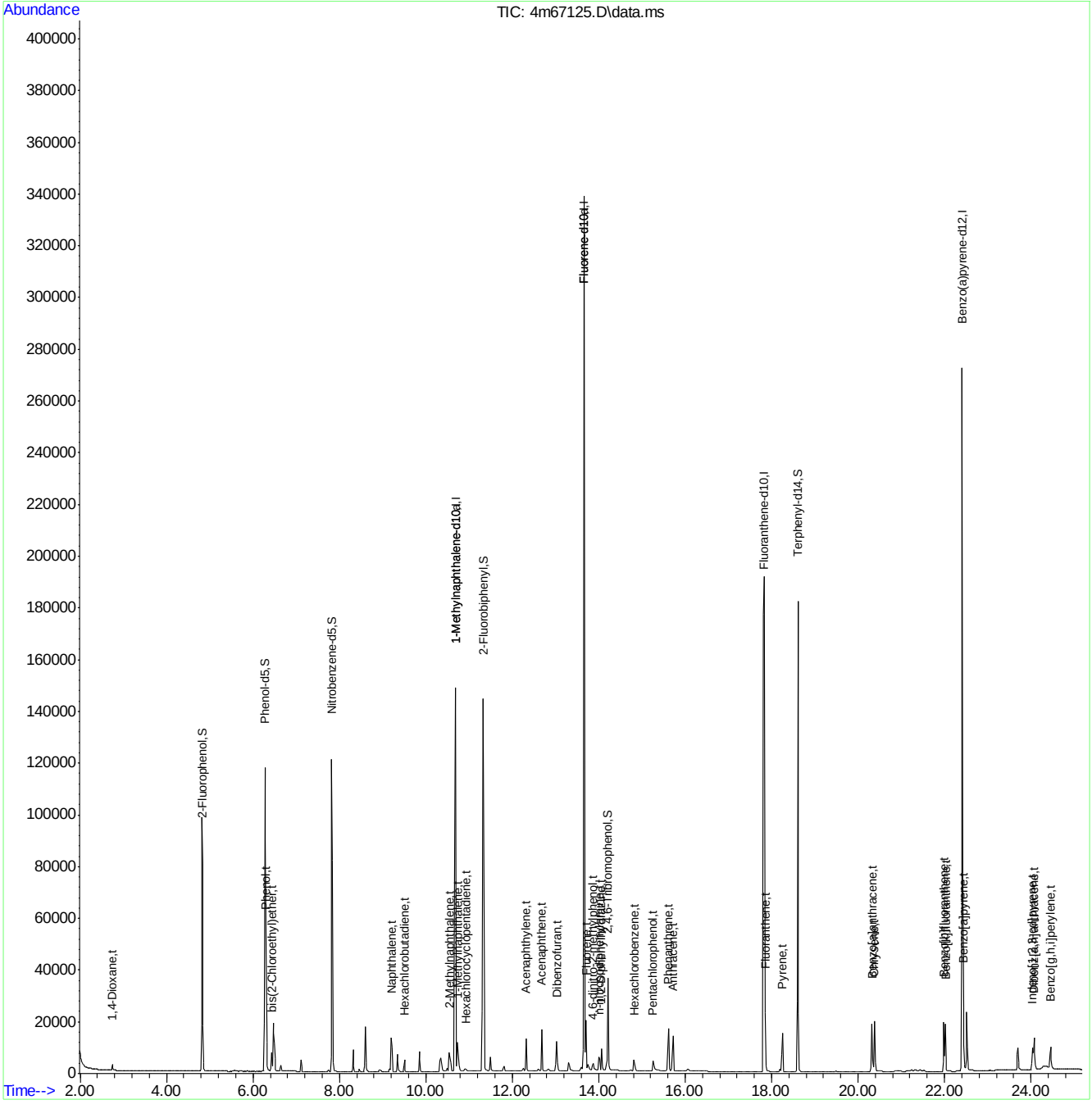
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67125.D
Acq On : 3 Aug 2016 5:22 pm
Operator : juliusj
Sample : ic3032-0.2
Misc : op95453a,e4m3032
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 04 09:06:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67126.D
Acq On : 3 Aug 2016 5:53 pm
Operator : juliusj
Sample : ic3032-0.1
Misc : op95453a,e4m3032
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 09:07:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.688	152	146234	4.00	ppm	#	0.00
12) Fluorene-d10	13.659	176	269749	4.00	ppm		0.00
22) Fluoranthene-d10	17.834	212	330934	4.00	ppm		0.02
28) Benzo(a)pyrene-d12	22.407	264	275038	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	10.688	152	146234	4.00	ppm	#	0.00
38) Fluorene-d10a	13.659	176	269749	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.828	112	41180	1.89	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 3.78%#				
3) Phenol-d5	6.273	99	61266	1.85	ppm		0.00
Spiked Amount 50.000			Recovery = 3.70%				
6) Nitrobenzene-d5	7.823	82	47583	1.78	ppm		0.00
Spiked Amount 50.000			Recovery = 3.56%				
11) 2-Fluorobiphenyl	11.332	172	94194	1.84	ppm		0.00
Spiked Amount 50.000			Recovery = 3.68%				
17) 2,4,6-Tribromophenol	14.209	330	12914	1.65	ppm		0.00
Spiked Amount 50.000			Recovery = 3.30%				
25) Terphenyl-d14	18.606	244	100481	2.03	ppm		0.00
Spiked Amount 50.000			Recovery = 4.06%				
Target Compounds							Qvalue
4) Phenol	6.301	94	16280	0.46	ppm		88
5) bis(2-Chloroethyl)ether	6.438	93	2496	0.09	ppm	#	53
7) Naphthalene	9.200	128	8791	0.09	ppm		98
8) Hexachlorobutadiene	9.509	225	1233	0.09	ppm		84
9) 2-Methylnaphthalene	10.545	142	3531	0.09	ppm	#	62
10) Hexachlorocyclopentadiene	10.927	237	470	0.09	ppm		86
13) Acenaphthylene	12.320	152	6767	0.09	ppm		86
14) Acenaphthene	12.675	153	4250	0.09	ppm		77
15) Dibenzofuran	13.030	168	5779	0.09	ppm		91
16) Fluorene	13.707	166	6765	0.09	ppm		87
18) Hexachlorobenzene	14.819	284	1537	0.09	ppm		83
19) Pentachlorophenol	15.282	266	2073	0.30	ppm		96
20) Phenanthrene	15.609	178	9892	0.09	ppm		95
21) Anthracene	15.718	178	8426	0.08	ppm		88
23) Fluoranthene	17.853	202	9949	0.10	ppm		88
24) Pyrene	18.249	202	9122	0.09	ppm		85
26) Benzo[a]anthracene	20.320	228	8476	0.10	ppm	#	92
27) Chrysene	20.376	228	8847	0.10	ppm		91
29) Benzo[b]fluoranthene	21.980	252	9596	0.10	ppm		93
30) Benzo[k]fluoranthene	22.021	252	6240	0.09	ppm		91
31) Benzo[a]pyrene	22.434	252	8505	0.11	ppm		99
32) Indeno[1,2,3-cd]pyrene	24.031	276	9135	0.09	ppm		99
33) Dibenz[a,h]anthracene	24.073	278	7671	0.09	ppm		96
34) Benzo[g,h,i]perylene	24.458	276	7976	0.10	ppm		100
36) 1,4-Dioxane	2.748	88	1363	0.13	ppm		86
37) 1-Methylnaphthalene	10.736	142	3707	0.09	ppm		97
39) 4,6-dinitro-2-methylph...	13.874	198	1178	0.25	ppm	#	14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67126.D
Acq On : 3 Aug 2016 5:53 pm
Operator : juliusj
Sample : ic3032-0.1
Misc : op95453a,e4m3032
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 09:07:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	14.065	77	4762	0.08 ppm	91
41) n-nitrosodiphenylamine	14.018	169	3155	0.09 ppm	95

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

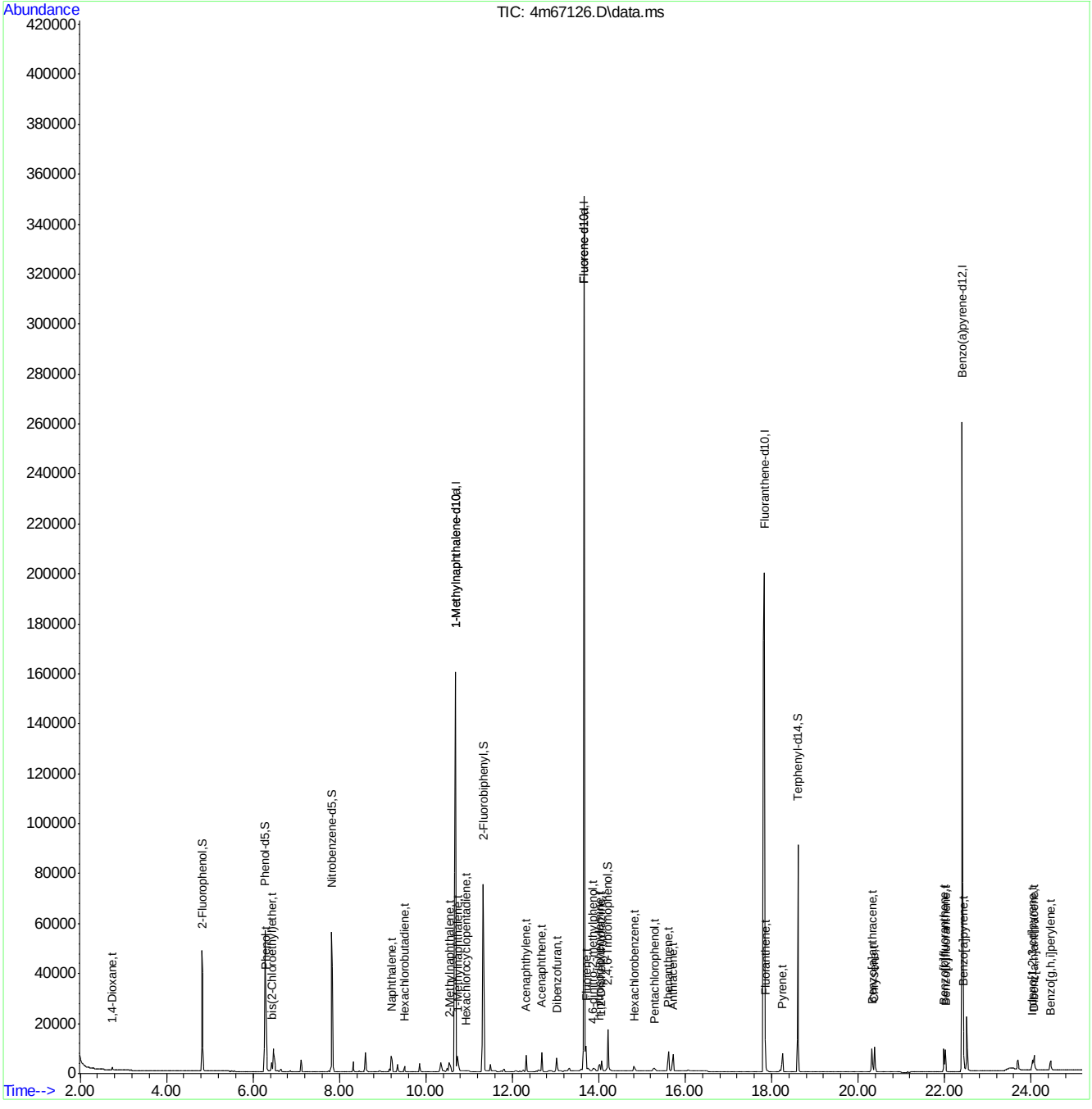
7.6.30

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67126.D
Acq On : 3 Aug 2016 5:53 pm
Operator : juliusj
Sample : ic3032-0.1
Misc : op95453a,e4m3032
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 09:07:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67127.D
Acq On : 3 Aug 2016 6:25 pm
Operator : juliusj
Sample : ic3032-0.05
Misc : op95453a,e4m3032
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 09:07:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.688	152	176151	4.00	ppm	#	0.00
12) Fluorene-d10	13.660	176	333931	4.00	ppm		0.00
22) Fluoranthene-d10	17.816	212	429648	4.00	ppm		-0.02
28) Benzo(a)pyrene-d12	22.407	264	366239	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	10.688	152	176151	4.00	ppm	#	0.00
38) Fluorene-d10a	13.660	176	333931	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.828	112	26046	0.99	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 1.98%#				
3) Phenol-d5	6.273	99	38365	0.96	ppm		0.00
Spiked Amount 50.000			Recovery = 1.92%				
6) Nitrobenzene-d5	7.823	82	30037	0.93	ppm		0.00
Spiked Amount 50.000			Recovery = 1.86%				
11) 2-Fluorobiphenyl	11.333	172	58636	0.31	ppm		0.00
Spiked Amount 50.000			Recovery = 0.62%				
17) 2,4,6-Tribromophenol	14.209	330	8026	0.83	ppm		0.00
Spiked Amount 50.000			Recovery = 1.66%				
25) Terphenyl-d14	18.606	244	71545	1.12	ppm		0.00
Spiked Amount 50.000			Recovery = 2.24%				
Target Compounds							Qvalue
4) Phenol	6.301	94	10471	0.25	ppm		87
5) bis(2-Chloroethyl)ether	6.439	93	1576	0.02	ppm	#	53
7) Naphthalene	9.200	128	5575	0.02	ppm		99
8) Hexachlorobutadiene	9.509	225	785	0.05	ppm		85
9) 2-Methylnaphthalene	10.545	142	2315	0.05	ppm	#	61
10) Hexachlorocyclopentadiene	10.927	237	236	0.04	ppm		80
13) Acenaphthylene	12.320	152	4306	0.02	ppm		86
14) Acenaphthene	12.675	153	2807	0.02	ppm		73
15) Dibenzofuran	13.030	168	3727	0.05	ppm		87
16) Fluorene	13.707	166	4469	0.05	ppm		85
18) Hexachlorobenzene	14.819	284	1074	0.02	ppm		85
19) Pentachlorophenol	15.282	266	1247	0.14	ppm		95
20) Phenanthrene	15.609	178	6873	0.05	ppm		94
21) Anthracene	15.718	178	5543	0.02	ppm		87
23) Fluoranthene	17.853	202	6985	0.05	ppm		85
24) Pyrene	18.249	202	6318	0.05	ppm		84
26) Benzo[a]anthracene	20.320	228	6286	0.05	ppm	#	95
27) Chrysene	20.376	228	6411	0.06	ppm		93
29) Benzo[b]fluoranthene	21.980	252	5779	0.04	ppm		91
30) Benzo[k]fluoranthene	22.021	252	5940	0.07	ppm		93
31) Benzo[a]pyrene	22.434	252	6629	0.06	ppm		98
32) Indeno[1,2,3-cd]pyrene	24.032	276	6430	0.05	ppm		99
33) Dibenz[a,h]anthracene	24.073	278	5619	0.05	ppm		96
34) Benzo[g,h,i]perylene	24.459	276	5756	0.05	ppm		100
36) 1,4-Dioxane	2.749	88	786	0.06	ppm		91
37) 1-Methylnaphthalene	10.736	142	2428	0.05	ppm		95
39) 4,6-dinitro-2-methylph...	13.898	198	805	0.14	ppm		70

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67127.D
Acq On : 3 Aug 2016 6:25 pm
Operator : juliusj
Sample : ic3032-0.05
Misc : op95453a,e4m3032
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 09:07:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	14.066	77	3051	0.04 ppm	92
41) n-nitrosodiphenylamine	14.018	169	2128	0.05 ppm	95

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

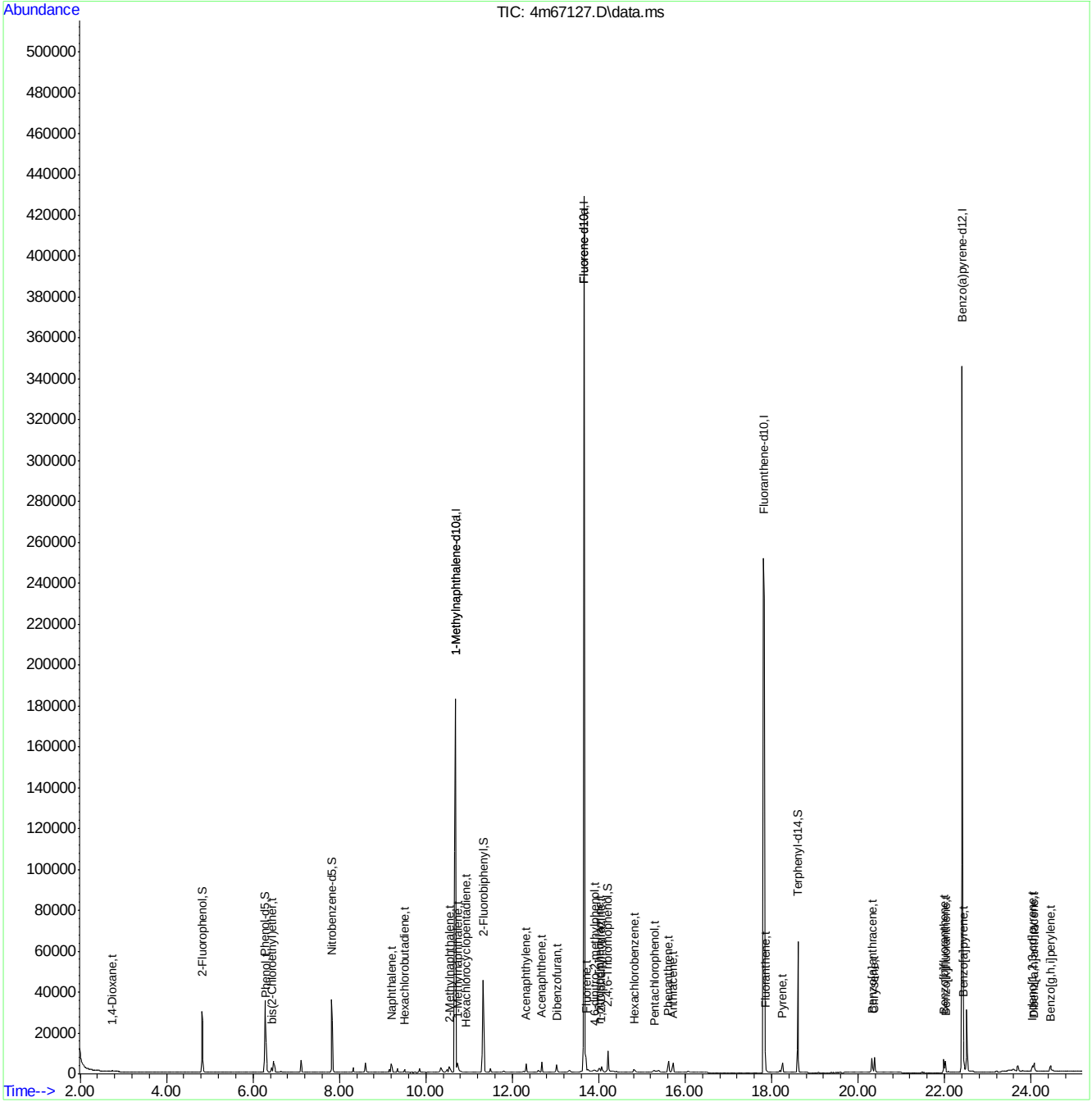
7.6.31

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67127.D
Acq On : 3 Aug 2016 6:25 pm
Operator : juliusj
Sample : ic3032-0.05
Misc : op95453a,e4m3032
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 09:07:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67128.D
Acq On : 3 Aug 2016 6:56 pm
Operator : juliusj
Sample : ic3032-0.02
Misc : op95453a,e4m3032
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 09:08:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.688	152	167851	4.00	ppm	#	0.00
12) Fluorene-d10	13.660	176	317411	4.00	ppm		0.00
22) Fluoranthene-d10	17.816	212	396698	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	22.407	264	337673	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	10.688	152	167851	4.00	ppm	#	0.00
38) Fluorene-d10a	13.660	176	317411	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.828	112	9505	0.38	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.76%#				
3) Phenol-d5	6.273	99	14168	0.38	ppm		0.00
Spiked Amount 50.000			Recovery = 0.76%				
6) Nitrobenzene-d5	7.823	82	10782	0.35	ppm		0.00
Spiked Amount 50.000			Recovery = 0.70%				
11) 2-Fluorobiphenyl	11.332	172	20694	0.13	ppm		0.00
Spiked Amount 50.000			Recovery = 0.26%				
17) 2,4,6-Tribromophenol	14.209	330	2622	0.30	ppm		0.00
Spiked Amount 50.000			Recovery = 0.60%				
25) Terphenyl-d14	18.606	244	26033	0.44	ppm		0.00
Spiked Amount 50.000			Recovery = 0.88%				
Target Compounds							Qvalue
4) Phenol	6.301	94	3763	0.09	ppm		88
5) bis(2-Chloroethyl)ether	6.439	93	596	0.01	ppm	#	54
7) Naphthalene	9.200	128	2122	0.01	ppm		99
8) Hexachlorobutadiene	9.509	225	298	0.02	ppm		85
9) 2-Methylnaphthalene	10.545	142	913	0.02	ppm		65
13) Acenaphthylene	12.320	152	1622	0.01	ppm		93
14) Acenaphthene	12.675	153	1057	0.01	ppm		75
15) Dibenzofuran	13.030	168	1432	0.02	ppm		74
16) Fluorene	13.707	166	1702	0.02	ppm		84
18) Hexachlorobenzene	14.819	284	397	0.01	ppm		84
20) Phenanthrene	15.609	178	2909	0.02	ppm		94
21) Anthracene	15.718	178	2259	0.01	ppm		88
23) Fluoranthene	17.853	202	3019	0.02	ppm		79
24) Pyrene	18.249	202	2885	0.02	ppm		85
26) Benzo[a]anthracene	20.320	228	2861	0.03	ppm		94
27) Chrysene	20.376	228	2933	0.03	ppm		91
29) Benzo[b]fluoranthene	21.980	252	2967	0.02	ppm		93
30) Benzo[k]fluoranthene	22.021	252	1990	0.02	ppm		89
31) Benzo[a]pyrene	22.434	252	1972	0.02	ppm		99
32) Indeno[1,2,3-cd]pyrene	24.032	276	2529	0.02	ppm		98
33) Dibenz[a,h]anthracene	24.073	278	2088	0.02	ppm		96
34) Benzo[g,h,i]perylene	24.458	276	2182	0.02	ppm		100
37) 1-Methylnaphthalene	10.736	142	977	0.02	ppm		95
39) 4,6-dinitro-2-methylph...	13.898	198	271	0.05	ppm	#	1
40) 1,2-Diphenylhydrazine	14.066	77	1102	0.02	ppm		90
41) n-nitrosodiphenylamine	14.018	169	817	0.02	ppm		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67128.D
Acq On : 3 Aug 2016 6:56 pm
Operator : juliusj
Sample : ic3032-0.02
Misc : op95453a,e4m3032
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 09:08:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

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

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

7.6.32

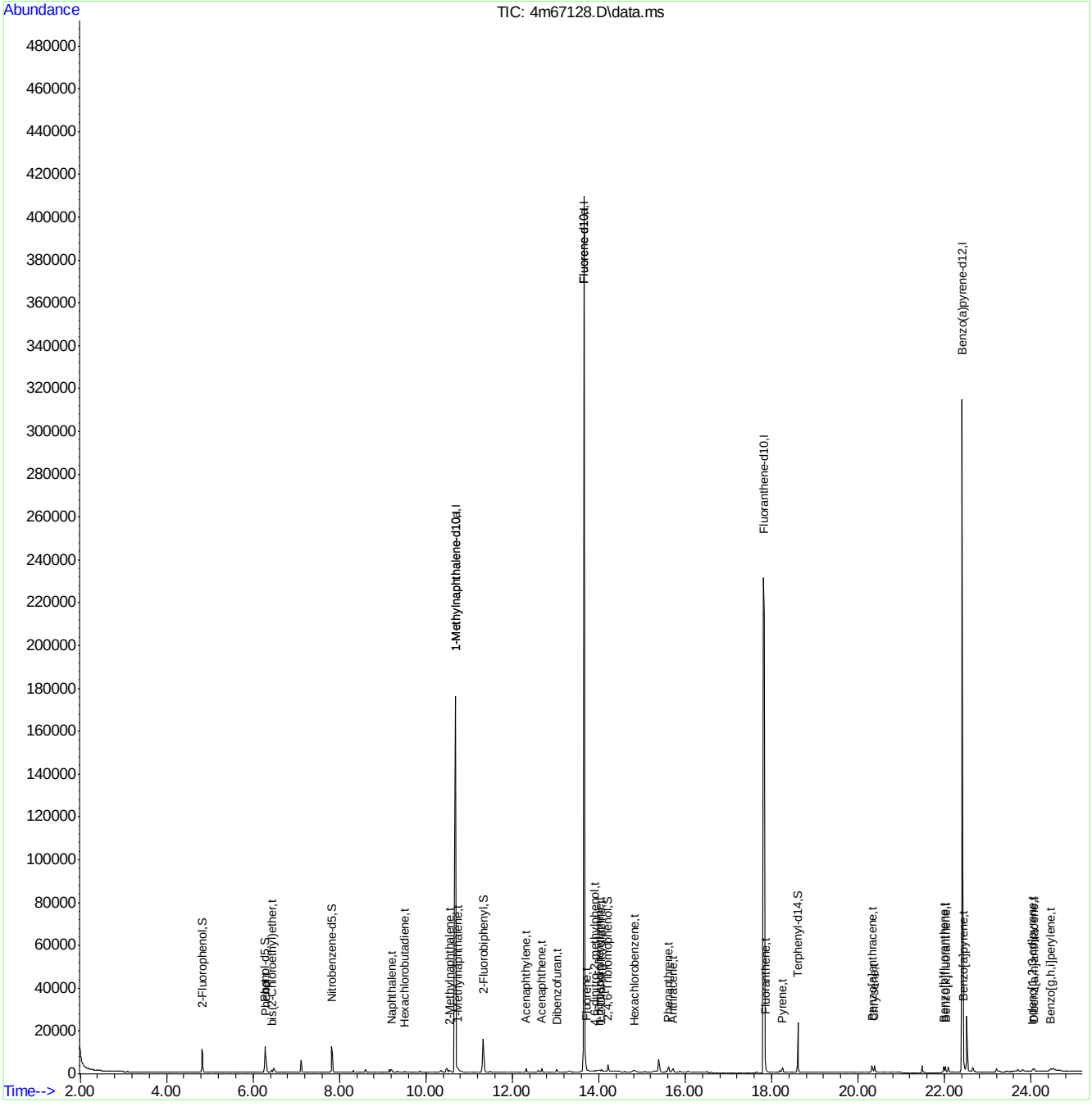
7

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67128.D
Acq On : 3 Aug 2016 6:56 pm
Operator : juliusj
Sample : ic3032-0.02
Misc : op95453a,e4m3032
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 09:08:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration



M4M3032SIM.M Thu Aug 04 10:10:14 2016 MANAGER Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67129.D
Acq On : 3 Aug 2016 7:27 pm
Operator : juliusj
Sample : ic3032-0.01
Misc : op95453a,e4m3032
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 04 09:11:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.688	152	124534	4.00	ppm	#	0.00
12) Fluorene-d10	13.660	176	233775	4.00	ppm		0.00
22) Fluoranthene-d10	17.816	212	299222	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	22.407	264	250390	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	10.688	152	124534	4.00	ppm	#	0.00
38) Fluorene-d10a	13.660	176	233775	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.828	112	3486	0.19	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.38%#				
3) Phenol-d5	6.273	99	5063	0.18	ppm		0.00
Spiked Amount 50.000			Recovery = 0.36%				
6) Nitrobenzene-d5	7.823	82	3911	0.17	ppm		0.00
Spiked Amount 50.000			Recovery = 0.34%				
11) 2-Fluorobiphenyl	11.333	172	7726	0.08	ppm		0.00
Spiked Amount 50.000			Recovery = 0.16%				
17) 2,4,6-Tribromophenol	14.209	330	926	0.14	ppm		0.00
Spiked Amount 50.000			Recovery = 0.28%				
25) Terphenyl-d14	18.606	244	9249	0.21	ppm		0.00
Spiked Amount 50.000			Recovery = 0.42%				
Target Compounds							Qvalue
4) Phenol	6.301	94	1316	0.04	ppm		92
5) bis(2-Chloroethyl)ether	6.439	93	226	0.00	ppm	#	48
7) Naphthalene	9.200	128	807	0.00	ppm		96
8) Hexachlorobutadiene	9.509	225	107	0.01	ppm		80
9) 2-Methylnaphthalene	10.545	142	357	0.01	ppm	#	62
13) Acenaphthylene	12.320	152	576	0.00	ppm		86
14) Acenaphthene	12.675	153	378	0.00	ppm		74
15) Dibenzofuran	13.030	168	520	0.01	ppm		61
16) Fluorene	13.707	166	636	0.01	ppm		82
18) Hexachlorobenzene	14.819	284	147	0.00	ppm		88
20) Phenanthrene	15.609	178	1115	0.01	ppm		95
21) Anthracene	15.718	178	860	0.00	ppm		86
23) Fluoranthene	17.853	202	1736	0.02	ppm		91
24) Pyrene	18.249	202	1397	0.02	ppm		85
26) Benzo[a]anthracene	20.320	228	1472	0.02	ppm	#	93
27) Chrysene	20.376	228	1634	0.02	ppm		92
29) Benzo[b]fluoranthene	21.980	252	1400	0.02	ppm		93
30) Benzo[k]fluoranthene	22.021	252	1009	0.02	ppm		91
31) Benzo[a]pyrene	22.434	252	894	0.01	ppm		97
32) Indeno[1,2,3-cd]pyrene	24.032	276	968	0.01	ppm		97
33) Dibenz[a,h]anthracene	24.073	278	793	0.01	ppm		97
34) Benzo[g,h,i]perylene	24.458	276	854	0.01	ppm		97
37) 1-Methylnaphthalene	10.736	142	371	0.01	ppm		94
40) 1,2-Diphenylhydrazine	14.066	77	401	0.01	ppm		88
41) n-nitrosodiphenylamine	14.018	169	290	0.01	ppm		99

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67129.D
Acq On : 3 Aug 2016 7:27 pm
Operator : juliusj
Sample : ic3032-0.01
Misc : op95453a,e4m3032
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 04 09:11:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

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

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

7.6.33

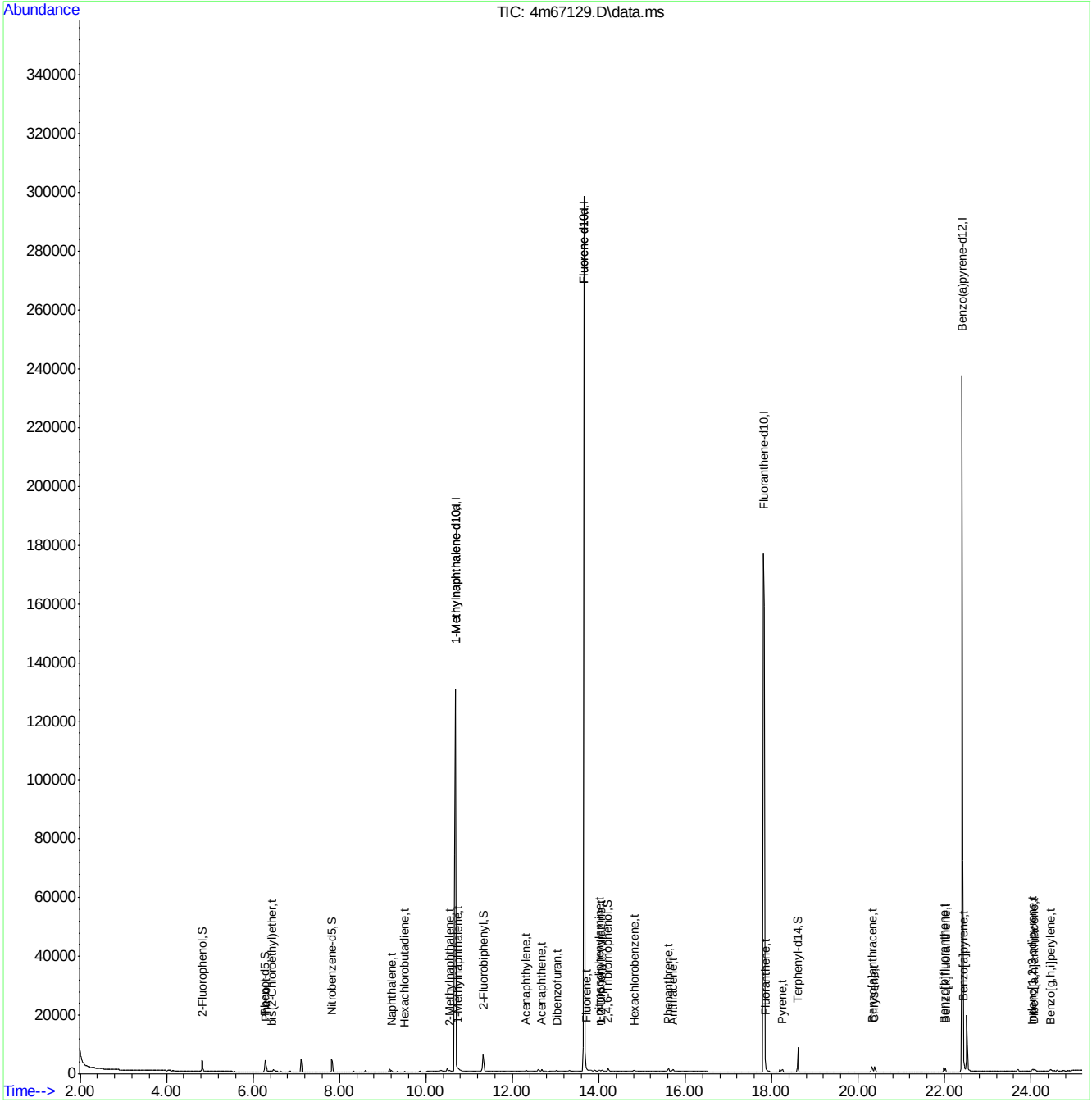
7

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67129.D
Acq On : 3 Aug 2016 7:27 pm
Operator : juliusj
Sample : ic3032-0.01
Misc : op95453a,e4m3032
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 04 09:11:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration



M4M3032SIM.M Thu Aug 04 10:10:17 2016 MANAGER Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67130.D
Acq On : 3 Aug 2016 7:58 pm
Operator : juliusj
Sample : ic3032-5
Misc : op95453a,e4m3032
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 04 09:11:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.688	152	141556	4.00	ppm	# 0.00
12) Fluorene-d10	13.660	176	262872	4.00	ppm	0.00
22) Fluoranthene-d10	17.816	212	332677	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	22.407	264	270866	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	10.688	152	141556	4.00	ppm	# 0.00
38) Fluorene-d10a	13.660	176	262872	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.828	112	1812619	87.06	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	174.12%#	
3) Phenol-d5	6.287	99	2729021	85.85	ppm	0.01
Spiked Amount 50.000			Recovery	=	171.70%	
6) Nitrobenzene-d5	7.838	82	2285705	88.49	ppm	0.02
Spiked Amount 50.000			Recovery	=	176.98%	
11) 2-Fluorobiphenyl	11.332	172	3482029	73.79	ppm	0.00
Spiked Amount 50.000			Recovery	=	147.58%	
17) 2,4,6-Tribromophenol	14.209	330	673087	92.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	184.54%	
25) Terphenyl-d14	18.625	244	3834363	77.22	ppm	0.02
Spiked Amount 50.000			Recovery	=	154.44%	
Target Compounds						Qvalue
4) Phenol	6.301	94	745353	22.15	ppm	77
5) bis(2-Chloroethyl)ether	6.439	93	116946	4.57	ppm	80
7) Naphthalene	9.200	128	403399	4.45	ppm	99
8) Hexachlorobutadiene	9.509	225	57226	4.51	ppm	86
9) 2-Methylnaphthalene	10.545	142	166967	4.64	ppm #	61
10) Hexachlorocyclopentadiene	10.927	237	64081	13.25	ppm	81
13) Acenaphthylene	12.320	152	343994	4.88	ppm	85
14) Acenaphthene	12.675	153	209079	4.65	ppm	75
15) Dibenzofuran	13.030	168	264014	4.36	ppm #	50
16) Fluorene	13.707	166	323837	4.53	ppm	87
18) Hexachlorobenzene	14.819	284	72675	4.43	ppm	83
19) Pentachlorophenol	15.228	266	226984	37.23	ppm	77
20) Phenanthrene	15.609	178	472129	4.29	ppm	95
21) Anthracene	15.718	178	461866	4.85	ppm	87
23) Fluoranthene	17.853	202	444039	4.31	ppm	90
24) Pyrene	18.249	202	428618	4.41	ppm	84
26) Benzo[a]anthracene	20.320	228	378076	4.17	ppm #	93
27) Chrysene	20.376	228	368347	4.10	ppm	90
29) Benzo[b]fluoranthene	21.980	252	423359	4.30	ppm	90
30) Benzo[k]fluoranthene	22.021	252	331479	4.99	ppm	95
31) Benzo[a]pyrene	22.434	252	349427	4.22	ppm	99
32) Indeno[1,2,3-cd]pyrene	24.045	276	428662	4.52	ppm	92
33) Dibenz[a,h]anthracene	24.073	278	363580	4.53	ppm	97
34) Benzo[g,h,i]perylene	24.458	276	371962	4.51	ppm	100
36) 1,4-Dioxane	2.736	88	41988	4.22	ppm	82
37) 1-Methylnaphthalene	10.736	142	174909	4.53	ppm	95
39) 4,6-dinitro-2-methylph...	13.874	198	189425	40.69	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67130.D
Acq On : 3 Aug 2016 7:58 pm
Operator : juliusj
Sample : ic3032-5
Misc : op95453a,e4m3032
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 04 09:11:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	14.066	77	256790	4.52 ppm	89
41) n-nitrosodiphenylamine	14.018	169	169657	5.02 ppm	96

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

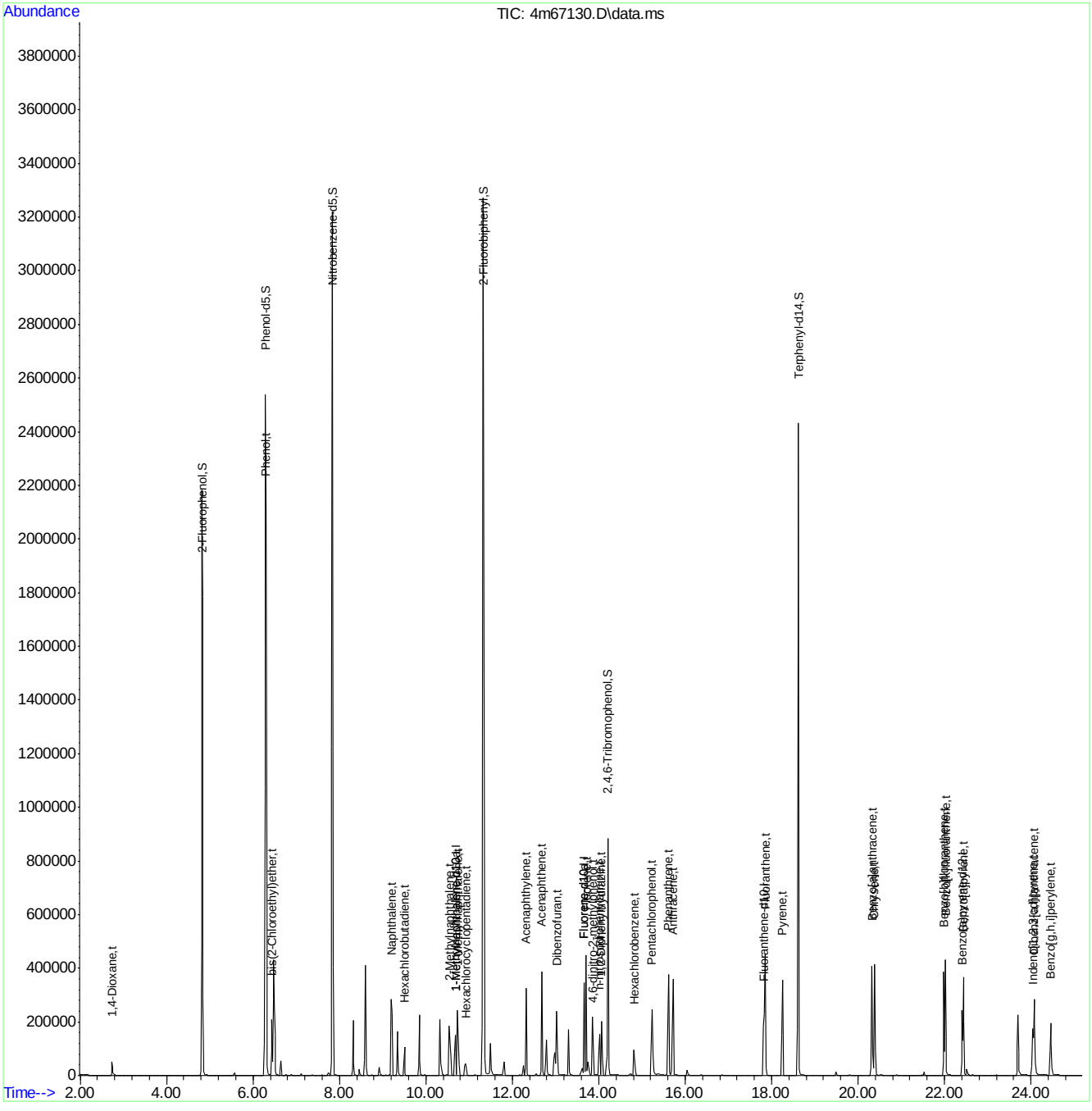
7.6.34

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67130.D
Acq On : 3 Aug 2016 7:58 pm
Operator : juliusj
Sample : ic3032-5
Misc : op95453a,e4m3032
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 04 09:11:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67131.D
Acq On : 3 Aug 2016 8:30 pm
Operator : juliusj
Sample : ic3032-2.5
Misc : op95453a,e4m3032
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 04 09:12:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.686	152	154574	4.00	ppm	#	0.00
12) Fluorene-d10	13.658	176	258621	4.00	ppm		0.00
22) Fluoranthene-d10	17.832	212	343328	4.00	ppm		0.02
28) Benzo(a)pyrene-d12	22.405	264	277902	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	10.686	152	154574	4.00	ppm	#	0.00
38) Fluorene-d10a	13.658	176	258621	4.00	ppm	#	0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.828	112	952735	42.83	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 85.66%#				
3) Phenol-d5	6.287	99	1472226	43.65	ppm		0.00
Spiked Amount 50.000			Recovery = 87.30%				
6) Nitrobenzene-d5	7.837	82	1202832	43.91	ppm		0.00
Spiked Amount 50.000			Recovery = 87.82%				
11) 2-Fluorobiphenyl	11.331	172	2215187	44.66	ppm		0.00
Spiked Amount 50.000			Recovery = 89.32%				
17) 2,4,6-Tribromophenol	14.207	330	379333	53.69	ppm		0.00
Spiked Amount 50.000			Recovery = 107.38%				
25) Terphenyl-d14	18.623	244	2064033	42.71	ppm		0.00
Spiked Amount 50.000			Recovery = 85.42%				
Target Compounds							Qvalue
4) Phenol	6.301	94	402447	11.17	ppm		85
5) bis(2-Chloroethyl)ether	6.438	93	59406	2.15	ppm	#	59
7) Naphthalene	9.213	128	209324	2.15	ppm		93
8) Hexachlorobutadiene	9.507	225	29817	2.19	ppm		89
9) 2-Methylnaphthalene	10.567	142	83431	2.16	ppm		87
10) Hexachlorocyclopentadiene	10.925	237	34480	6.04	ppm		85
13) Acenaphthylene	12.318	152	177907	2.57	ppm		87
14) Acenaphthene	12.673	153	105663	2.41	ppm		78
15) Dibenzofuran	13.028	168	135211	2.33	ppm		57
16) Fluorene	13.705	166	161479	2.34	ppm		90
18) Hexachlorobenzene	14.817	284	34001	2.14	ppm		80
19) Pentachlorophenol	15.253	266	95099	14.44	ppm		95
20) Phenanthrene	15.607	178	228912	2.17	ppm		96
21) Anthracene	15.716	178	248492	2.66	ppm		88
23) Fluoranthene	17.851	202	229525	2.22	ppm		93
24) Pyrene	18.247	202	229601	2.34	ppm		86
26) Benzo[a]anthracene	20.318	228	185746	2.05	ppm	#	89
27) Chrysene	20.374	228	190504	2.13	ppm		88
29) Benzo[b]fluoranthene	21.978	252	214990	2.20	ppm		86
30) Benzo[k]fluoranthene	22.019	252	177467	2.60	ppm		97
31) Benzo[a]pyrene	22.432	252	182868	2.22	ppm		96
32) Indeno[1,2,3-cd]pyrene	24.043	276	226461	2.38	ppm		98
33) Dibenz[a,h]anthracene	24.071	278	190364	2.37	ppm		95
34) Benzo[g,h,i]perylene	24.456	276	192227	2.33	ppm		100
36) 1,4-Dioxane	2.736	88	21507	2.06	ppm	#	71
37) 1-Methylnaphthalene	10.734	142	84241	2.04	ppm		100
39) 4,6-dinitro-2-methylph...	13.873	198	85089	16.06	ppm		92

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67131.D
Acq On : 3 Aug 2016 8:30 pm
Operator : juliusj
Sample : ic3032-2.5
Misc : op95453a,e4m3032
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 04 09:12:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	14.064	77	133405	2.44 ppm	89
41) n-nitrosodiphenylamine	14.016	169	85853	2.58 ppm	96

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

7.6.35

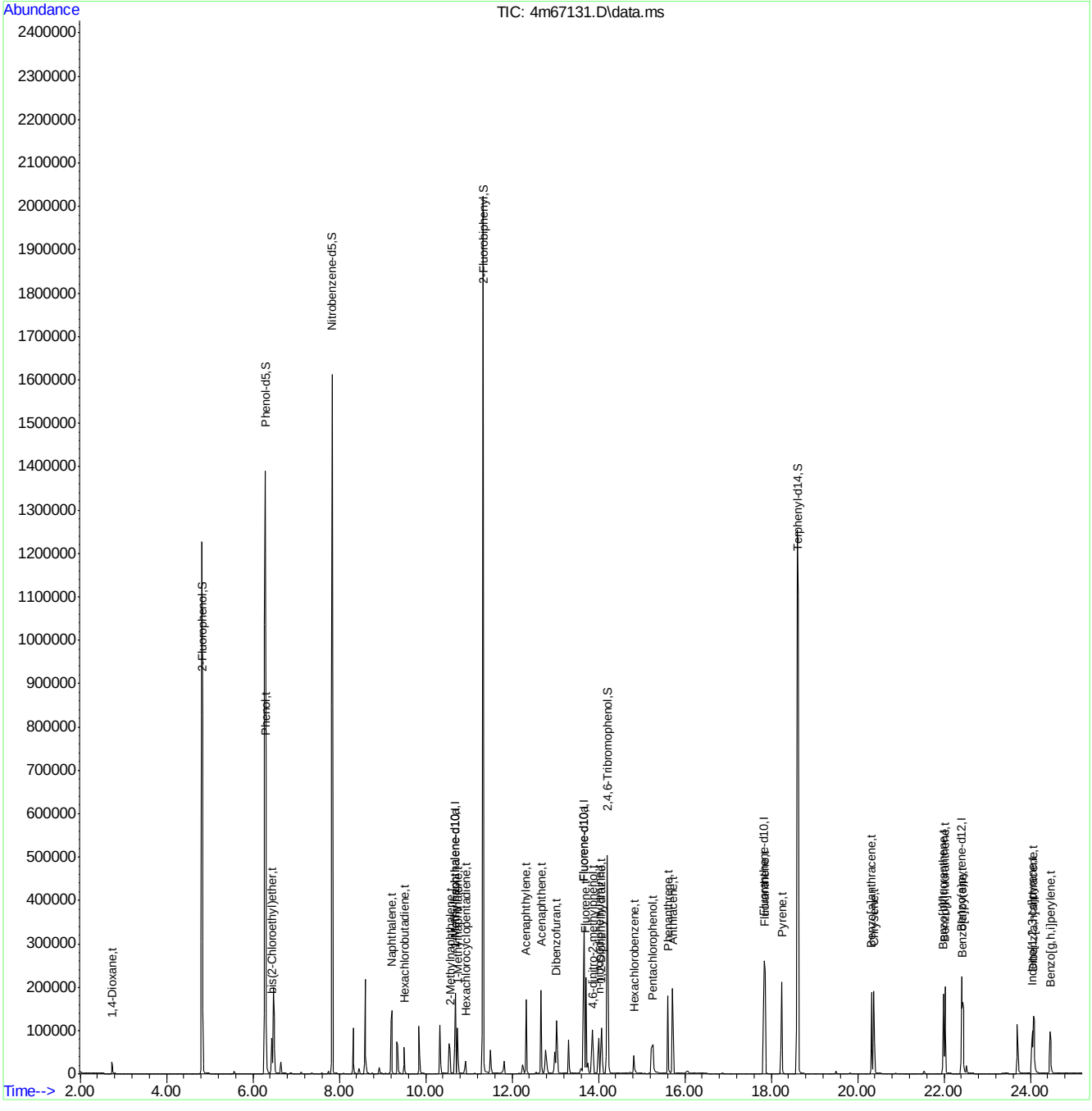
7

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67131.D
Acq On : 3 Aug 2016 8:30 pm
Operator : juliusj
Sample : ic3032-2.5
Misc : op95453a,e4m3032
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 04 09:12:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:04:08 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67132.D
Acq On : 3 Aug 2016 9:01 pm
Operator : juliusj
Sample : icv3032-1.0
Misc : op95453a,e4m3032
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 04 09:15:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:13:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.688	152	163480	4.00	ppm	# 0.00
12) Fluorene-d10	13.659	176	309913	4.00	ppm	0.00
22) Fluoranthene-d10	17.815	212	377677	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	22.407	264	297113	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	10.688	152	163480	4.00	ppm	# 0.00
38) Fluorene-d10a	13.659	176	309913	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
17) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) bis(2-Chloroethyl)ether	6.425	93	27699	0.97	ppm	# 57
7) Naphthalene	9.200	128	95160	0.94	ppm	99
8) Hexachlorobutadiene	9.509	225	13631	0.97	ppm	84
9) 2-Methylnaphthalene	10.545	142	38274	0.96	ppm	# 63
13) Acenaphthylene	12.320	152	70865	0.86	ppm	85
14) Acenaphthene	12.675	153	48483	0.94	ppm	74
15) Dibenzofuran	13.030	168	63408	0.93	ppm	67
16) Fluorene	13.707	166	73348	0.90	ppm	87
18) Hexachlorobenzene	14.819	284	17666	0.95	ppm	84
20) Phenanthrene	15.609	178	108448	0.88	ppm	94
21) Anthracene	15.718	178	87397	0.79	ppm	87
23) Fluoranthene	17.853	202	101414	0.91	ppm	89
24) Pyrene	18.248	202	96481	0.91	ppm	85
26) Benzo[a]anthracene	20.319	228	80947	0.84	ppm	# 92
27) Chrysene	20.376	228	80774	0.84	ppm	91
29) Benzo[b]fluoranthene	21.980	252	87776	0.86	ppm	92
30) Benzo[k]fluoranthene	22.021	252	63623	0.88	ppm	92
31) Benzo[a]pyrene	22.434	252	71473	0.82	ppm	100
32) Indeno[1,2,3-cd]pyrene	24.031	276	88718	0.88	ppm	99
33) Dibenz[a,h]anthracene	24.073	278	69795	0.82	ppm	# 68
34) Benzo[g,h,i]perylene	24.458	276	76699	0.88	ppm	100
36) 1,4-Dioxane	2.760	88	9241	0.97	ppm	82
40) 1,2-Diphenylhydrazine	14.065	77	60489	0.95	ppm	92
41) n-nitrosodiphenylamine	14.018	169	32390	0.82	ppm	100

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

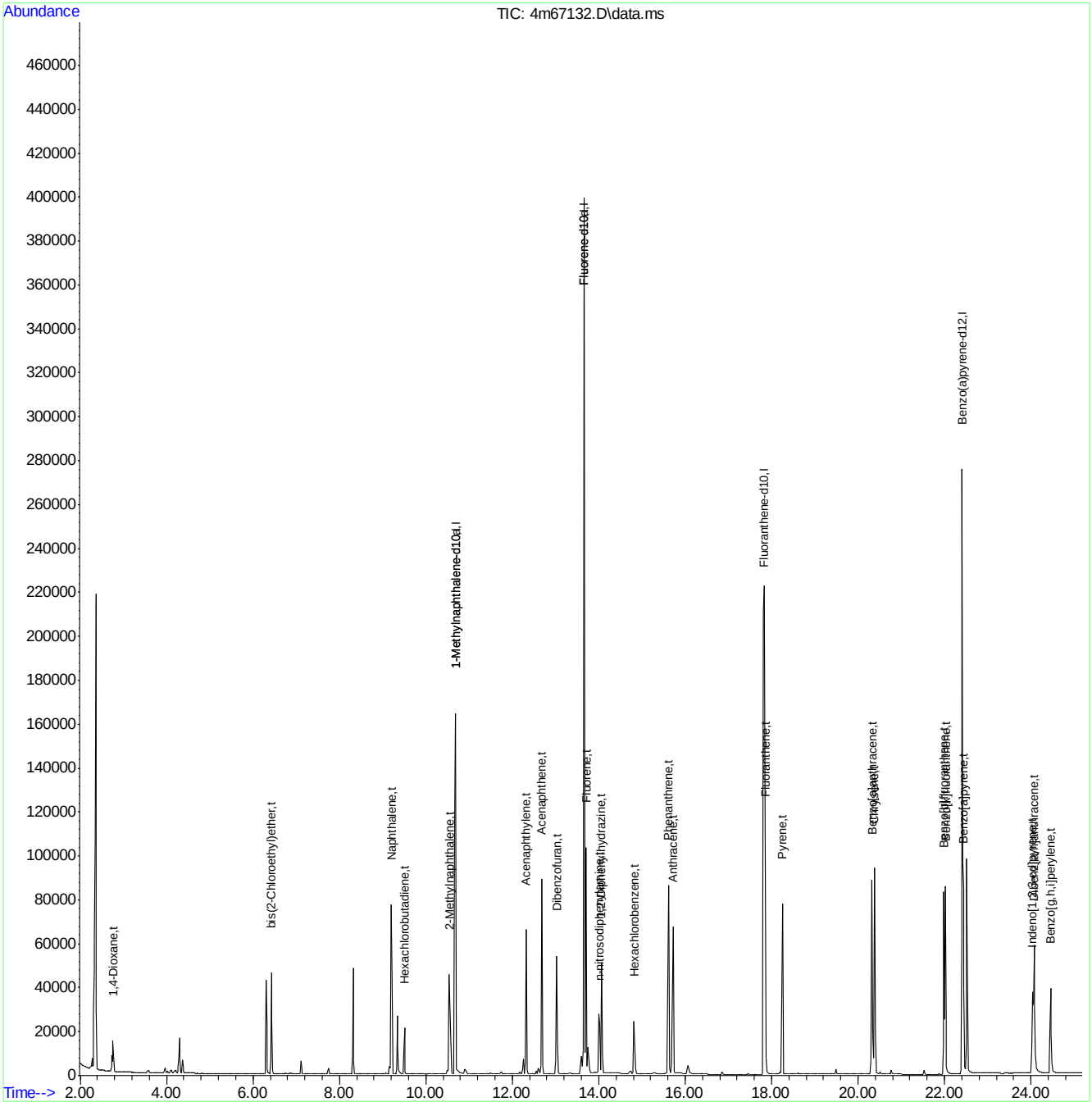
M4M3032SIM.M Thu Aug 04 10:10:27 2016 MANAGER

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3032\
Data File : 4m67132.D
Acq On : 3 Aug 2016 9:01 pm
Operator : juliusj
Sample : icv3032-1.0
Misc : op95453a,e4m3032
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 04 09:15:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:13:47 2016
Response via : Initial Calibration



M4M3032SIM.M Thu Aug 04 10:10:28 2016 MANAGER Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3033\
Data File : 4m67136.D
Acq On : 4 Aug 2016 10:22 am
Operator : juliusj
Sample : icv3032-1.0
Misc : op95453a,e4m3033
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 11:20:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:12:35 2016
Response via : Initial Calibration

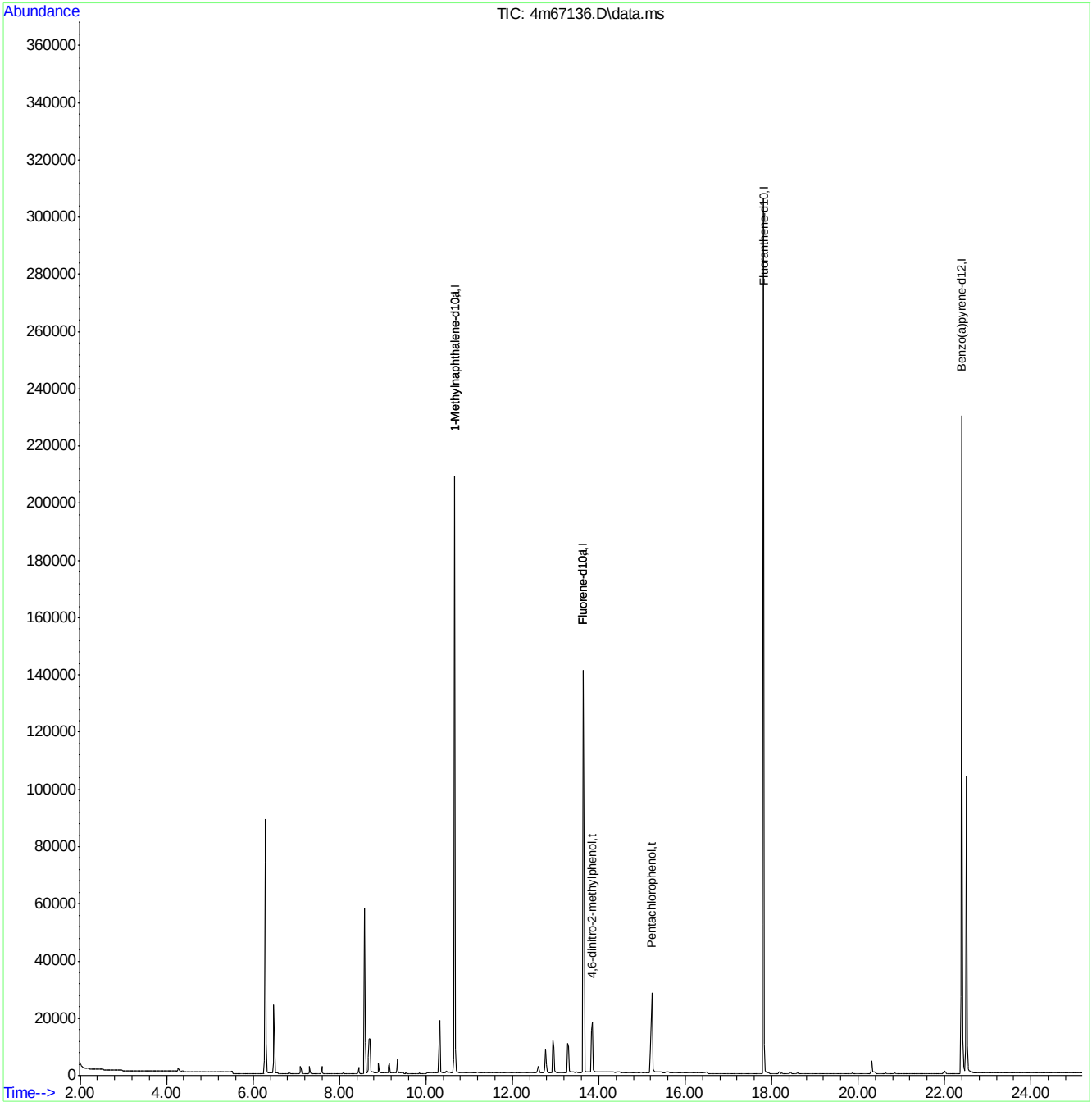
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.664	152	130812	4.00	ppm	-0.02
12) Fluorene-d10	13.636	176	156768	4.00	ppm	#-0.02
22) Fluoranthene-d10	17.816	212	322961	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	22.393	264	264253	4.00	ppm	-0.01
35) 1-Methylnaphthalene-d10a	10.664	152	130812	4.00	ppm	-0.02
38) Fluorene-d10a	13.636	176	156768	4.00	ppm	#-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
17) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
19) Pentachlorophenol	15.228	266	24734	5.78	ppm	91
39) 4,6-dinitro-2-methylph...	13.851	198	21694	5.89	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3033\
Data File : 4m67136.D
Acq On : 4 Aug 2016 10:22 am
Operator : juliusj
Sample : icv3032-1.0
Misc : op95453a,e4m3033
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 11:20:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Aug 04 09:12:35 2016
Response via : Initial Calibration



M4M3032SIM.M Thu Aug 04 11:20:58 2016 MANAGER Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3036\
Data File : 4m67180a.D
Acq On : 5 Aug 2016 10:06 am
Operator : shaniceg
Sample : cc3032-1
Misc : op95453a,e4m3036
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 10:32:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Aug 05 09:04:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.593	152	85370	4.00	ppm		#-0.10
12) Fluorene-d10	13.564	176	148400	4.00	ppm		-0.09
22) Fluoranthene-d10	17.722	212	188322	4.00	ppm		-0.02
28) Benzo(a)pyrene-d12	22.311	264	161076	4.00	ppm		-0.01
35) 1-Methylnaphthalene-d10a	10.593	152	85370	4.00	ppm		#-0.10
38) Fluorene-d10a	13.564	176	148400	4.00	ppm		-0.09
System Monitoring Compounds							
2) 2-Fluorophenol	4.744	112	223482	18.57	ppm		-0.08
Spiked Amount 50.000	Range 11 - 58		Recovery = 37.14%				
3) Phenol-d5	6.205	99	334802	18.41	ppm		-0.07
Spiked Amount 50.000			Recovery = 36.82%				
6) Nitrobenzene-d5	7.746	82	269088	18.41	ppm		-0.08
Spiked Amount 50.000			Recovery = 36.82%				
11) 2-Fluorobiphenyl	11.237	172	569631	21.04	ppm		-0.09
Spiked Amount 50.000			Recovery = 42.08%				
17) 2,4,6-Tribromophenol	14.113	330	74683	18.55	ppm		-0.10
Spiked Amount 50.000			Recovery = 37.10%				
25) Terphenyl-d14	18.512	244	483647	18.45	ppm		0.00
Spiked Amount 50.000			Recovery = 36.90%				
Target Compounds							Qvalue
4) Phenol	6.218	94	90090	4.61	ppm		91
5) bis(2-Chloroethyl)ether	6.356	93	13261	0.89	ppm	#	48
7) Naphthalene	9.107	128	46608	0.88	ppm		98
8) Hexachlorobutadiene	9.417	225	6815	0.93	ppm		91
9) 2-Methylnaphthalene	10.473	142	18595	0.90	ppm		90
10) Hexachlorocyclopentadiene	10.831	237	8708	2.40	ppm		87
13) Acenaphthylene	12.231	152	31539	0.80	ppm		80
14) Acenaphthene	12.586	153	20598	0.83	ppm	#	60
15) Dibenzofuran	12.941	168	34937	1.07	ppm	#	32
16) Fluorene	13.612	166	38072	0.98	ppm		84
18) Hexachlorobenzene	14.737	284	7236	0.81	ppm		77
19) Pentachlorophenol	15.146	266	19099	4.79	ppm		88
20) Phenanthrene	15.500	178	33321	0.57	ppm		97
21) Anthracene	15.609	178	49303	0.93	ppm		95
23) Fluoranthene	17.759	202	49943	0.90	ppm		88
24) Pyrene	18.155	202	48550	0.92	ppm		83
26) Benzo[a]anthracene	20.226	228	44988	0.93	ppm	#	92
27) Chrysene	20.282	228	44320	0.92	ppm		92
29) Benzo[b]fluoranthene	21.884	252	50531	0.91	ppm		89
30) Benzo[k]fluoranthene	21.925	252	40281	1.03	ppm		94
31) Benzo[a]pyrene	22.338	252	42589	0.90	ppm		99
32) Indeno[1,2,3-cd]pyrene	23.908	276	50853	0.94	ppm		99
33) Dibenz[a,h]anthracene	23.949	278	42125	0.92	ppm	#	68
34) Benzo[g,h,i]perylene	24.321	276	43643	0.93	ppm		100
36) 1,4-Dioxane	2.676	88	5226	1.06	ppm		85
37) 1-Methylnaphthalene	10.640	142	18746	0.85	ppm		98
39) 4,6-dinitro-2-methylph...	13.755	198	15008	4.49	ppm	#	1

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3036\
Data File : 4m67180a.D
Acq On : 5 Aug 2016 10:06 am
Operator : shaniceg
Sample : cc3032-1
Misc : op95453a,e4m3036
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 10:32:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Aug 05 09:04:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.970	77	29474	0.97	ppm	90
41) n-nitrosodiphenylamine	13.922	169	17547	0.93	ppm	99

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

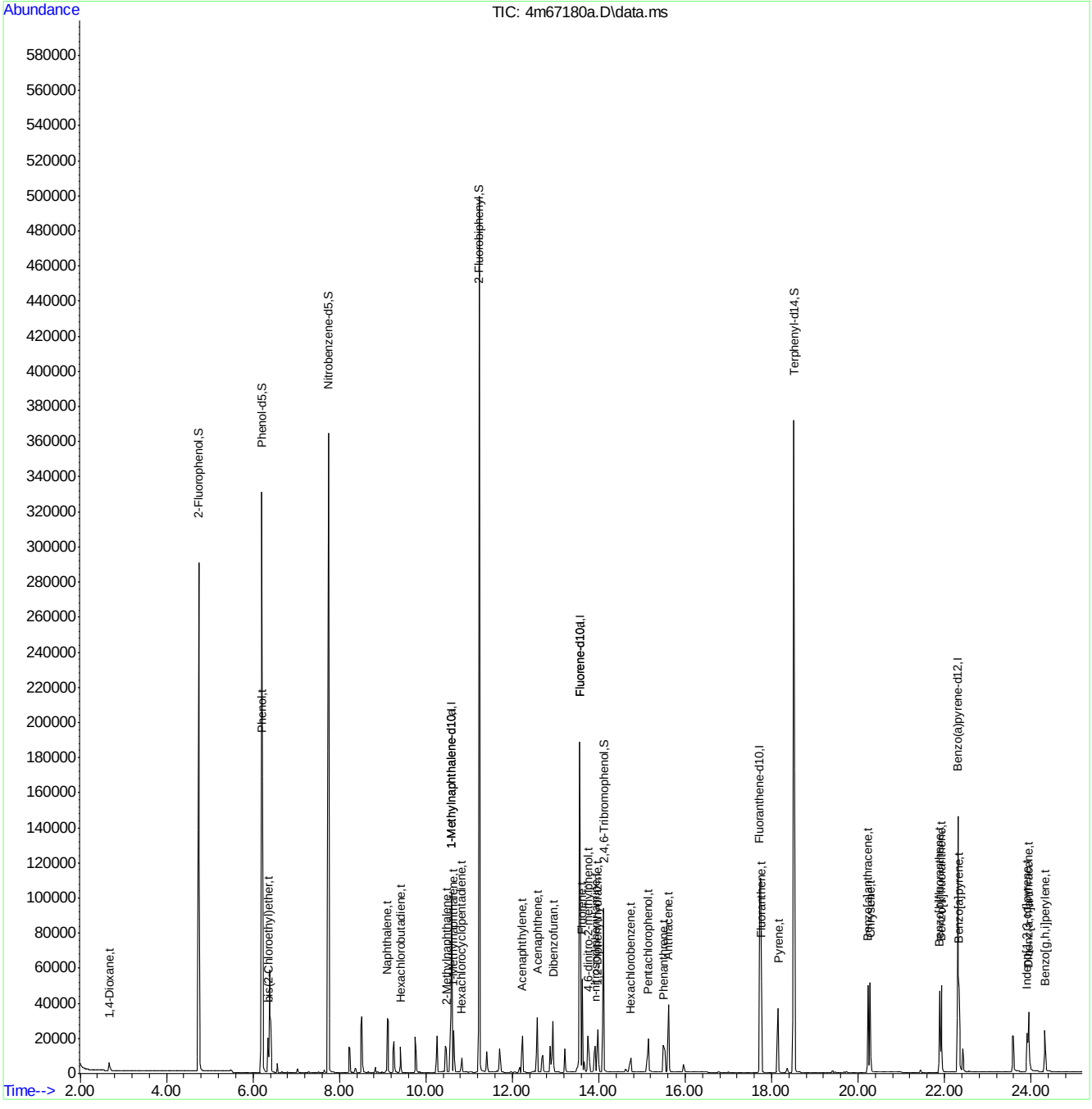
7.6.38

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3036\
Data File : 4m67180a.D
Acq On : 5 Aug 2016 10:06 am
Operator : shaniceg
Sample : cc3032-1
Misc : op95453a,e4m3036
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 10:32:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M3032SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Aug 05 09:04:55 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105969.D Vial: 3
Acq On : 11 Jul 2016 9:31 am Operator: brittanp
Sample : icc4681-50 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:05:53 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:05:48 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	174021	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	570275	40.00	ppm	0.00
47) Acenaphthene-d10	6.91	164	329946	40.00	ppm	0.00
69) Phenanthrene-d10	8.74	188	601494	40.00	ppm	0.00
83) Chrysene-d12	13.96	240	599774	40.00	ppm	0.00
91) Perylene-d12	16.99	264	425762	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	174021	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	570275	40.00	ppm	0.00
120) Acenaphthene-d10A	6.91	164	329946	40.00	ppm	0.00
131) Phenanthrene-d10A	8.74	188	601494	40.00	ppm	0.00
146) Chrysene-d12A	13.96	240	599774	40.00	ppm	0.00
154) Perylene-d12A	16.99	264	425762	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	174021	40.00	ppm	0.00
160) Phenanthrene-d10b	8.74	188	601494	40.00	ppm	0.00
162) Chrysene-d12b	13.96	240	599774	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	570275	40.00	ppm	0.00
166) Acenaphthene-d10b	6.91	164	329946	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	570275	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	174021	40.00	ppm	-0.01
175) Chrysene-d12c	13.96	240	599701	40.00	ppm	0.00
177) Chrysene-d12d	13.96	240	599701	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	570275	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.62	112	296647	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
8) Phenol-d5	4.34	99	411405	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
25) Nitrobenzene-d5	5.00	82	349171	50.12	ppm	0.00
Spiked Amount 50.000			Recovery = 100.24%			
51) 2-Fluorobiphenyl	6.31	172	508765	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
73) 2,4,6-Tribromophenol	7.77	330	69407	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
85) Terphenyl-d14	11.76	244	584136	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.14	88	144418	50.00	ppm	100
3) Pyridine	2.46	79	363420	50.00	ppm	100
4) N-Nitrosodimethylamine	2.43	42	149588	50.00	ppm	100
6) Indene	4.78	116	473909	50.00	ppm	100
7) Cumene	4.00	105	704374	50.00	ppm	100
9) Phenol	4.35	94	438837	49.91	ppm	100
10) Aniline	4.36	93	482981	50.25	ppm	99
11) bis(2-Chloroethyl)ether	4.41	93	296240	50.00	ppm	100
12) 2-Chlorophenol	4.45	128	284442	50.00	ppm	100
13) Decane	4.48	43	273901	50.00	ppm	100
14) 1,3-Dichlorobenzene	4.56	146	287458	50.00	ppm	100
15) 1,4-Dichlorobenzene	4.61	146	282251	50.00	ppm	100

(#) = qualifier out of range (m) = manual integration
P105969.D MP4681.M Mon Jul 11 14:08:36 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105969.D Vial: 3
Acq On : 11 Jul 2016 9:31 am Operator: brittanp
Sample : icc4681-50 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:05:53 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:05:48 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16) Benzyl alcohol	4.70	108	205708	50.00	ppm	100
17) 1,2-Dichlorobenzene	4.72	146	256744	50.00	ppm	100
18) Acetophenone	4.90	105	374224	50.00	ppm	100
19) 2-Methylphenol	4.79	108	253909	50.00	ppm	100
20) 2,2'-oxybis(1-Chloropropan	4.80	121	88126	50.00	ppm	100
21) 3&4-Methylphenol	4.90	108	263459	50.00	ppm	100
22) n-Nitroso-di-n-propylamine	4.89	70	197785	50.00	ppm	100
23) Hexachloroethane	4.97	201	115218	50.00	ppm	100
26) Nitrobenzene	5.02	77	343106	50.00	ppm	100
27) Quinoline	5.78	129	542476	50.00	ppm	100
28) Isophorone	5.19	82	586968	50.00	ppm	100
29) 2-Nitrophenol	5.24	139	154423	50.00	ppm	100
30) 2,4-Dimethylphenol	5.28	107	291018	50.00	ppm	100
31) Benzoic acid	5.37	105	253993	50.00	ppm	100
32) bis(2-Chloroethoxy)methane	5.35	93	334827	50.00	ppm	100
33) 2,4-Dichlorophenol	5.42	162	229279	50.00	ppm	100
34) 2,6-Dichlorophenol	5.58	162	222577	50.00	ppm	100
35) 1,3,5-Trichlorobenzene	5.25	180	256838	50.00	ppm	100
36) 1,2,4-Trichlorobenzene	5.48	180	242595	50.00	ppm	100
37) 1,2,3-Trichlorobenzene	5.63	180	238203	50.00	ppm	100
38) Naphthalene	5.53	128	681897	50.00	ppm	100
39) 4-Chloroaniline	5.58	127	340138	50.00	ppm	100
40) 2,3-Dichloroaniline	6.24	161	270776	50.00	ppm	100
41) Caprolactam	5.84	55	180473	50.00	ppm	100
42) Hexachlorobutadiene	5.62	225	160145	50.00	ppm	100
43) 4-Chloro-3-methylphenol	5.92	107	265595	50.00	ppm	100
44) 2-Methylnaphthalene	6.03	141	428008	50.00	ppm	100
45) 1-Methylnaphthalene	6.10	142	486708	50.00	ppm	100
46) Dimethylnaphthalene	6.52	156	442291	50.00	ppm	100
48) Hexachlorocyclopentadiene	6.14	237	367057	100.00	ppm	100
49) 2,4,6-Trichlorophenol	6.24	196	181170	50.00	ppm	100
50) 2,4,5-Trichlorophenol	6.28	196	186702	50.40	ppm	100
52) 2-Chloronaphthalene	6.41	162	428787	50.00	ppm	100
53) Biphenyl	6.39	154	602924	50.00	ppm	100
54) 2-Nitroaniline	6.50	65	221690	49.95	ppm	100
55) Dimethylphthalate	6.65	163	494364	50.05	ppm	100
56) Acenaphthylene	6.77	152	739770	50.00	ppm	100
57) 2,6-Dinitrotoluene	6.71	165	116429	50.00	ppm	100
58) 3-Nitroaniline	6.87	138	156908	50.00	ppm	100
59) Acenaphthene	6.94	153	443759	50.00	ppm	100
61) 4-Nitrophenol	7.03	109	113525	50.00	ppm	100
62) Dibenzofuran	7.11	168	692344	50.00	ppm	100
63) 2,4-Dinitrotoluene	7.10	165	169263	50.00	ppm	100
64) 2,3,4,6-Tetrachlorophenol	7.24	232	164485	50.00	ppm	100
65) Diethylphthalate	7.36	149	587981	50.00	ppm	100
66) Fluorene	7.48	166	558148	50.00	ppm	100
67) 4-Chlorophenyl-phenylether	7.48	204	282432	50.00	ppm	100
68) 4-Nitroaniline	7.52	138	159205	50.00	ppm	100
71) n-Nitrosodiphenylamine	7.63	169	385062	50.00	ppm	100

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

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105969.D Vial: 3
Acq On : 11 Jul 2016 9:31 am Operator: brittanp
Sample : icc4681-50 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:05:53 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:05:48 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	1,2-Diphenylhydrazine	7.68	77	666665	50.03	ppm	100
74)	4-Bromophenyl-phenylether	8.10	248	171405	50.00	ppm	100
75)	Hexachlorobenzene	8.17	284	166632	50.00	ppm	100
76)	Pentachlorophenol	8.46	266	223511	100.00	ppm	100
77)	Phenanthrene	8.78	178	711659	50.00	ppm	100
78)	Anthracene	8.86	178	726576	50.00	ppm	100
79)	Carbazole	9.13	167	776392	50.00	ppm	100
80)	Di-n-butylphthalate	9.82	149	1004233	50.00	ppm	100
81)	Fluoranthene	10.89	202	990812	50.00	ppm	100
82)	Octadecane	8.64	57	467589	50.00	ppm	100
84)	Pyrene	11.32	202	980646	50.00	ppm	100
86)	Butylbenzylphthalate	12.93	149	469603	50.00	ppm	100
87)	Benzo[a]anthracene	13.94	228	853772	50.00	ppm	100
88)	3,3'-Dichlorobenzidine	13.99	252	302064	50.00	ppm	100
89)	Chrysene	14.02	228	757937	50.00	ppm	100
90)	bis(2-Ethylhexyl)phthalate	14.34	149	550961	50.00	ppm	100
92)	Di-n-octylphthalate	15.78	149	952711	50.00	ppm	100
93)	Benzo[b]fluoranthene	16.24	252	797304	50.00	ppm	100
94)	Benzo[k]fluoranthene	16.30	252	646307	50.00	ppm	100
95)	Benzo[a]pyrene	16.87	252	674461	50.00	ppm	100
96)	Indeno[1,2,3-cd]pyrene	18.93	276	503589	50.00	ppm	100
97)	Dibenz(a,h)acridine	18.57	279	508694	50.00	ppm	100
98)	Dibenz[a,h]anthracene	18.99	278	459393	50.02	ppm	100
99)	7,12-Dimethylbenz(a)anthra	16.26	256	349267	50.00	ppm	100
100)	Benzo[g,h,i]perylene	19.35	276	507956	50.00	ppm	100

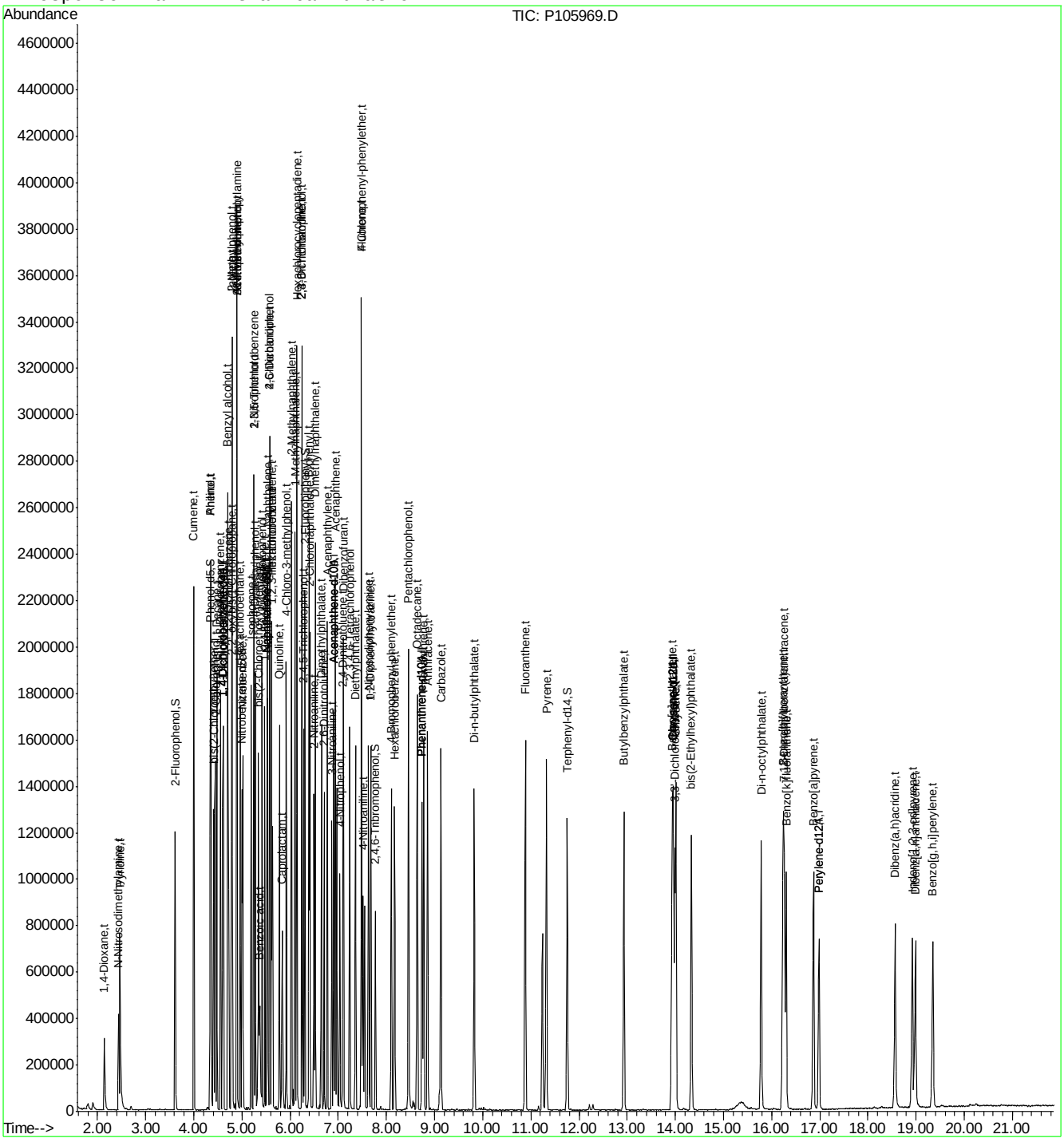
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105969.D Vial: 3
Acq On : 11 Jul 2016 9:31 am Operator: brittanp
Sample : icc4681-50 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:08 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:05:48 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105970.D Vial: 4
Acq On : 11 Jul 2016 10:00 am Operator: brittanp
Sample : ic4681-100 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:08:54 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:08:46 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	154937	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	510066	40.00	ppm	0.00
47) Acenaphthene-d10	6.91	164	296539	40.00	ppm	0.00
69) Phenanthrene-d10	8.74	188	540720	40.00	ppm	0.00
83) Chrysene-d12	13.96	240	564304	40.00	ppm	0.00
91) Perylene-d12	16.99	264	392818	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	154937	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	510066	40.00	ppm	0.00
120) Acenaphthene-d10A	6.91	164	296539	40.00	ppm	0.00
131) Phenanthrene-d10A	8.74	188	540720	40.00	ppm	0.00
146) Chrysene-d12A	13.96	240	564304	40.00	ppm	0.00
154) Perylene-d12A	16.99	264	392818	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	154937	40.00	ppm	0.00
160) Phenanthrene-d10b	8.74	188	540720	40.00	ppm	0.00
162) Chrysene-d12b	13.96	240	564304	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	510066	40.00	ppm	0.00
166) Acenaphthene-d10b	6.91	164	296539	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	510066	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	154937	40.00	ppm	-0.01
175) Chrysene-d12c	13.96	240	564304	40.00	ppm	0.00
177) Chrysene-d12d	13.96	240	564304	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	510066	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.62	112	504304	95.47	ppm	0.00
Spiked Amount 50.000			Recovery = 190.94%			
8) Phenol-d5	4.34	99	665130	90.79	ppm	0.00
Spiked Amount 50.000			Recovery = 181.58%			
25) Nitrobenzene-d5	5.01	82	564235	90.33	ppm	0.00
Spiked Amount 50.000			Recovery = 180.66%			
51) 2-Fluorobiphenyl	6.31	172	817189	89.36	ppm	0.00
Spiked Amount 50.000			Recovery = 178.72%			
73) 2,4,6-Tribromophenol	7.78	330	135621	108.68	ppm	0.00
Spiked Amount 50.000			Recovery = 217.36%			
85) Terphenyl-d14	11.76	244	1043972	94.98	ppm	0.00
Spiked Amount 50.000			Recovery = 189.96%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.14	88	258973	100.70	ppm	97
3) Pyridine	2.46	79	643121	99.38	ppm	94
4) N-Nitrosodimethylamine	2.43	42	245984	92.35	ppm	94
6) Indene	4.79	116	733804	86.96	ppm	99
7) Cumene	4.00	105	1106789	88.24	ppm	96
9) Phenol	4.36	94	673839	86.23	ppm	90
10) Aniline	4.36	93	771951	89.76	ppm	98
11) bis(2-Chloroethyl)ether	4.41	93	493082	93.47	ppm	99
12) 2-Chlorophenol	4.45	128	475472	93.87	ppm	99
13) Decane	4.48	43	386330	79.21	ppm	85
14) 1,3-Dichlorobenzene	4.56	146	483497	94.46	ppm	96
15) 1,4-Dichlorobenzene	4.61	146	475144	94.54	ppm	95

(#) = qualifier out of range (m) = manual integration
P105970.D MP4681.M Mon Jul 11 14:10:31 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105970.D Vial: 4
Acq On : 11 Jul 2016 10:00 am Operator: brittanp
Sample : ic4681-100 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:08:54 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:08:46 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.70	108	313515	85.59	ppm		99
17) 1,2-Dichlorobenzene	4.72	146	422132	92.33	ppm		98
18) Acetophenone	4.90	105	560329	84.09	ppm		78
19) 2-Methylphenol	4.80	108	390278	86.32	ppm		98
20) 2,2'-oxybis(1-Chloropropan	4.80	121	149055	94.99	ppm	#	71
21) 3&4-Methylphenol	4.90	108	402685	85.84	ppm		99
22) n-Nitroso-di-n-propylamine	4.90	70	268327	76.19	ppm	#	86
23) Hexachloroethane	4.97	201	199262	97.12	ppm		95
26) Nitrobenzene	5.02	77	540918	88.13	ppm		99
27) Quinoline	5.78	129	937207	96.58	ppm		99
28) Isophorone	5.20	82	935893	89.13	ppm		96
29) 2-Nitrophenol	5.25	139	249573	90.35	ppm		72
30) 2,4-Dimethylphenol	5.28	107	484645	93.10	ppm		95
31) Benzoic acid	5.39	105	461524	101.58	ppm		97
32) bis(2-Chloroethoxy)methane	5.35	93	548072	91.51	ppm		97
33) 2,4-Dichlorophenol	5.43	162	389294	94.92	ppm		95
34) 2,6-Dichlorophenol	5.58	162	377758	94.88	ppm		98
35) 1,3,5-Trichlorobenzene	5.26	180	417165	90.80	ppm		96
36) 1,2,4-Trichlorobenzene	5.48	180	404127	93.12	ppm		96
37) 1,2,3-Trichlorobenzene	5.64	180	389536	91.42	ppm		99
38) Naphthalene	5.54	128	1040492	85.30	ppm		97
39) 4-Chloroaniline	5.58	127	530806	87.24	ppm		98
40) 2,3-Dichloroaniline	6.24	161	442024	91.26	ppm		99
41) Caprolactam	5.85	55	305018	94.48	ppm		95
42) Hexachlorobutadiene	5.62	225	271395	94.74	ppm		100
43) 4-Chloro-3-methylphenol	5.93	107	439835	92.58	ppm		98
44) 2-Methylnaphthalene	6.03	141	674924	88.15	ppm		98
45) 1-Methylnaphthalene	6.10	142	784033	90.05	ppm		98
46) Dimethylnaphthalene	6.53	156	718268	90.78	ppm		98
48) Hexachlorocyclopentadiene	6.15	237	635521	192.64	ppm		94
49) 2,4,6-Trichlorophenol	6.25	196	305558	93.83	ppm		98
50) 2,4,5-Trichlorophenol	6.28	196	322781	96.18	ppm		100
52) 2-Chloronaphthalene	6.41	162	691732	89.75	ppm		95
53) Biphenyl	6.39	154	946157	87.30	ppm		95
54) 2-Nitroaniline	6.50	65	367658	92.26	ppm		98
55) Dimethylphthalate	6.65	163	833194	93.76	ppm		98
56) Acenaphthylene	6.77	152	1158116	87.09	ppm		97
57) 2,6-Dinitrotoluene	6.71	165	207741	99.26	ppm		92
58) 3-Nitroaniline	6.87	138	277616	98.43	ppm		94
59) Acenaphthene	6.94	153	739193	92.67	ppm		97
61) 4-Nitrophenol	7.04	109	198243	97.15	ppm		93
62) Dibenzofuran	7.11	168	1114971	89.59	ppm		96
63) 2,4-Dinitrotoluene	7.10	165	290570	95.50	ppm		98
64) 2,3,4,6-Tetrachlorophenol	7.24	232	289083	97.77	ppm		96
65) Diethylphthalate	7.36	149	950658	89.95	ppm		97
66) Fluorene	7.49	166	917679	91.47	ppm		99
67) 4-Chlorophenyl-phenylether	7.49	204	491489	96.81	ppm		93
68) 4-Nitroaniline	7.53	138	272907	95.37	ppm		98
71) n-Nitrosodiphenylamine	7.63	169	665423	96.12	ppm		99

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

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105970.D Vial: 4
Acq On : 11 Jul 2016 10:00 am Operator: brittanp
Sample : ic4681-100 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:08:54 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:08:46 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	1,2-Diphenylhydrazine	7.68	77	1033323	86.21	ppm	91
74)	4-Bromophenyl-phenylether	8.11	248	303259	98.41	ppm	96
75)	Hexachlorobenzene	8.18	284	301328	100.58	ppm	95
76)	Pentachlorophenol	8.47	266	412736	205.42	ppm	96
77)	Phenanthrene	8.78	178	1204401	94.13	ppm	96
78)	Anthracene	8.86	178	1221669	93.52	ppm	97
79)	Carbazole	9.14	167	1302557	93.31	ppm	98
80)	Di-n-butylphthalate	9.83	149	1630735	90.32	ppm	98
81)	Fluoranthene	10.89	202	1663636	93.39	ppm	98
82)	Octadecane	8.64	57	720479	85.70	ppm	94
84)	Pyrene	11.33	202	1655457	89.71	ppm	99
86)	Butylbenzylphthalate	12.94	149	823875	93.23	ppm	96
87)	Benzo[a]anthracene	13.94	228	1504480	93.65	ppm	98
88)	3,3'-Dichlorobenzidine	14.00	252	555807	97.78	ppm	99
89)	Chrysene	14.03	228	1332014	93.39	ppm	96
90)	bis(2-Ethylhexyl)phthalate	14.34	149	950960	91.72	ppm	97
92)	Di-n-octylphthalate	15.79	149	1640193	93.30	ppm	98
93)	Benzo[b]fluoranthene	16.25	252	1456865	99.02	ppm	97
94)	Benzo[k]fluoranthene	16.32	252	1120193	93.93	ppm	98
95)	Benzo[a]pyrene	16.88	252	1222522	98.23	ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.94	276	943271	101.51	ppm	98
97)	Dibenz(a,h)acridine	18.58	279	980561	104.46	ppm	97
98)	Dibenz[a,h]anthracene	19.00	278	859544	101.40	ppm	98
99)	7,12-Dimethylbenz(a)anthra	16.28	256	666242	103.38	ppm	98
100)	Benzo[g,h,i]perylene	19.37	276	943114	100.62	ppm	99

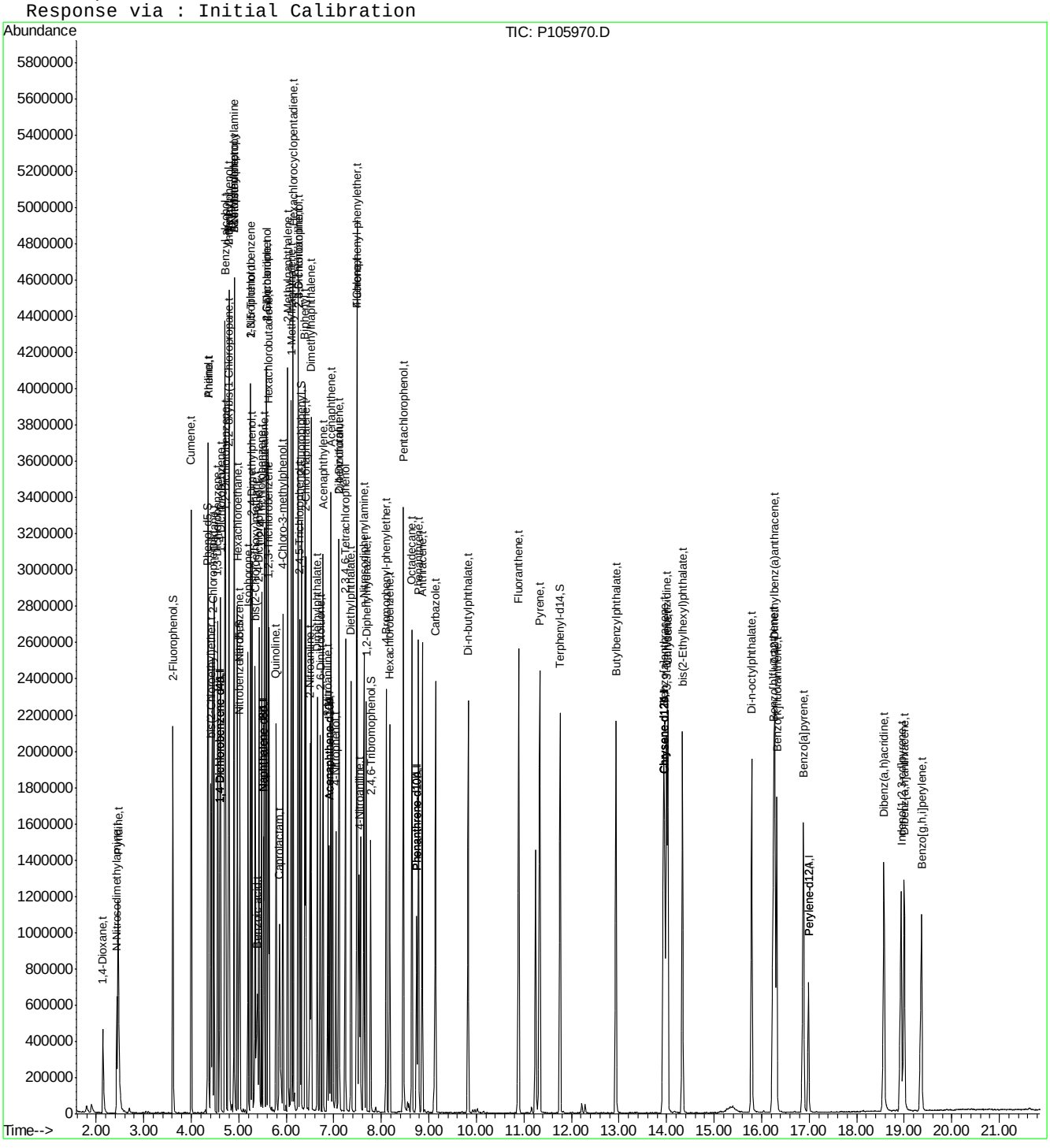
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105970.D Vial: 4
Acq On : 11 Jul 2016 10:00 am Operator: brittanp
Sample : ic4681-100 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:10 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:08:46 2016
Response via : Initial Calibration



P105970.D MP4681.M Mon Jul 11 14:10:31 2016 Page 4

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105976.D Vial: 10
Acq On : 11 Jul 2016 10:29 am Operator: brittanp
Sample : ic4681-1 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:32:47 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:31:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	182565	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	601278	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	349943	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	633167	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	618058	40.00	ppm	-0.01
91) Perylene-d12	16.98	264	519846	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	182565	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	601278	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	349943	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	633167	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	618058	40.00	ppm	-0.01
154) Perylene-d12A	16.98	264	519846	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	182565	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	633167	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	618058	40.00	ppm	-0.01
164) Naphthalene-d8b	5.52	136	601278	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	349943	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	601278	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	182565	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	617907	40.00	ppm	-0.01
177) Chrysene-d12d	13.95	240	617907	40.00	ppm	-0.01
179) Naphthalene-d8d	5.52	136	601278	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.62	112	5388	0.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.72%	
8) Phenol-d5	4.34	99	7595	0.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.72%	
25) Nitrobenzene-d5	5.00	82	7430	0.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.96%	
51) 2-Fluorobiphenyl	6.30	172	12222	1.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.16%	
73) 2,4,6-Tribromophenol	7.77	330	1226	0.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.72%	
85) Terphenyl-d14	11.75	244	12052	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.15	88	3092	0.94	ppm	91
3) Pyridine	2.48	79	6312	0.77	ppm	92
4) N-Nitrosodimethylamine	2.44	42	2505	0.82	ppm	97
6) Indene	4.79	116	11451	1.08	ppm	90
7) Cumene	4.00	105	17447	1.10	ppm	94
9) Phenol	4.35	94	11678	1.17	ppm	76
10) Aniline	4.35	93	13196	1.14	ppm	95
11) bis(2-Chloroethyl)ether	4.41	93	7008	1.05	ppm	91
12) 2-Chlorophenol	4.44	128	6392	1.02	ppm	84
13) Decane	4.48	43	7672	1.18	ppm	92
14) 1,3-Dichlorobenzene	4.56	146	6792	1.07	ppm	97
15) 1,4-Dichlorobenzene	4.61	146	6255	1.03	ppm	94

(#) = qualifier out of range (m) = manual integration
P105976.D MP4681.M Mon Jul 11 14:35:08 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105976.D Vial: 10
Acq On : 11 Jul 2016 10:29 am Operator: brittanp
Sample : ic4681-1 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:32:47 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:31:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.70	108	4889	1.13	ppm		92
17) 1,2-Dichlorobenzene	4.72	146	5887	1.03	ppm		95
18) Acetophenone	4.89	105	9707	1.15	ppm		87
19) 2-Methylphenol	4.79	108	5761	1.04	ppm		97
20) 2,2'-oxybis(1-Chloropropan	4.80	121	2261	1.18	ppm		99
21) 3&4-Methylphenol	4.89	108	6809	1.15	ppm		97
22) n-Nitroso-di-n-propylamine	4.89	70	5303	1.15	ppm	#	90
23) Hexachloroethane	4.97	201	2366	1.00	ppm		94
26) Nitrobenzene	5.01	77	9338	1.23	ppm		90
27) Quinoline	5.77	129	12438	1.04	ppm		91
28) Isophorone	5.18	82	14497	1.11	ppm		91
29) 2-Nitrophenol	5.24	139	2814	0.87	ppm		93
30) 2,4-Dimethylphenol	5.27	107	6259	0.95	ppm		84
31) Benzoic acid	5.31	105	3659	0.74	ppm		82
32) bis(2-Chloroethoxy)methane	5.34	93	8219	1.08	ppm		97
33) 2,4-Dichlorophenol	5.42	162	4981	1.02	ppm		98
34) 2,6-Dichlorophenol	5.58	162	4820	1.01	ppm		87
35) 1,3,5-Trichlorobenzene	5.25	180	5656	1.01	ppm		96
36) 1,2,4-Trichlorobenzene	5.47	180	5860	1.13	ppm		80
37) 1,2,3-Trichlorobenzene	5.63	180	5498	1.09	ppm		94
38) Naphthalene	5.53	128	17083	1.12	ppm		93
39) 4-Chloroaniline	5.57	127	7377	0.99	ppm		93
40) 2,3-Dichloroaniline	6.24	161	6261	1.06	ppm		82
41) Caprolactam	5.79	55	4095	1.04	ppm		90
42) Hexachlorobutadiene	5.61	225	3248	0.98	ppm		89
43) 4-Chloro-3-methylphenol	5.91	107	5039	0.89	ppm		82
44) 2-Methylnaphthalene	6.02	141	9529	1.03	ppm		91
45) 1-Methylnaphthalene	6.10	142	11233	1.05	ppm		98
46) Dimethylnaphthalene	6.52	156	10641	1.11	ppm		98
48) Hexachlorocyclopentadiene	6.14	237	5413	1.55	ppm		85
49) 2,4,6-Trichlorophenol	6.24	196	3477	0.91	ppm		96
50) 2,4,5-Trichlorophenol	6.27	196	4082	1.03	ppm		97
52) 2-Chloronaphthalene	6.40	162	10789	1.14	ppm		96
53) Biphenyl	6.39	154	13857	1.05	ppm		97
54) 2-Nitroaniline	6.49	65	5138	1.08	ppm		89
55) Dimethylphthalate	6.64	163	12401	1.14	ppm		99
56) Acenaphthylene	6.77	152	16815	1.04	ppm		99
57) 2,6-Dinitrotoluene	6.70	165	2279	0.96	ppm		94
58) 3-Nitroaniline	6.86	138	2745	0.81	ppm		77
59) Acenaphthene	6.93	153	9904	1.03	ppm		91
60) 2,4-Dinitrophenol	6.96	184	449	0.35	ppm	#	59
61) 4-Nitrophenol	7.03	109	1642	0.75	ppm		84
62) Dibenzofuran	7.10	168	16498	1.07	ppm		97
63) 2,4-Dinitrotoluene	7.09	165	2996	0.87	ppm		87
64) 2,3,4,6-Tetrachlorophenol	7.23	232	2815	0.87	ppm		95
65) Diethylphthalate	7.35	149	12765	1.03	ppm		99
66) Fluorene	7.48	166	12512	1.04	ppm		95
67) 4-Chlorophenyl-phenylether	7.48	204	6241	1.03	ppm		89
68) 4-Nitroaniline	7.49	138	3092	0.93	ppm		87

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

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105976.D Vial: 10
Acq On : 11 Jul 2016 10:29 am Operator: brittanp
Sample : ic4681-1 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:32:47 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:31:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
70)	4,6-Dinitro-2-methylphenol	7.54	198	785	0.40	ppm	#	39
71)	n-Nitrosodiphenylamine	7.62	169	8374	1.02	ppm		93
72)	1,2-Diphenylhydrazine	7.66	77	16207	1.09	ppm		91
74)	4-Bromophenyl-phenylether	8.10	248	3251	0.91	ppm		97
75)	Hexachlorobenzene	8.17	284	3764	1.05	ppm		71
76)	Pentachlorophenol	8.46	266	2275	1.12	ppm		85
77)	Phenanthrene	8.77	178	16717	1.08	ppm		92
78)	Anthracene	8.85	178	16614	1.04	ppm		95
79)	Carbazole	9.12	167	17090	1.02	ppm		92
80)	Di-n-butylphthalate	9.82	149	19410	0.93	ppm		96
81)	Fluoranthene	10.88	202	21098	1.00	ppm		94
82)	Octadecane	8.63	57	11328	1.09	ppm		93
84)	Pyrene	11.31	202	21969	1.07	ppm		97
86)	Butylbenzylphthalate	12.93	149	8366	0.90	ppm		98
87)	Benzo[a]anthracene	13.93	228	18712	1.06	ppm		91
88)	3,3'-Dichlorobenzidine	13.98	252	5867	0.99	ppm		83
89)	Chrysene	14.00	228	16456	1.05	ppm		98
90)	bis(2-Ethylhexyl)phthalate	14.33	149	9714	0.88	ppm		90
92)	Di-n-octylphthalate	15.77	149	20803	0.96	ppm		88
93)	Benzo[b]fluoranthene	16.22	252	17101	0.91	ppm		88
94)	Benzo[k]fluoranthene	16.27	252	15633	0.98	ppm		97
95)	Benzo[a]pyrene	16.85	252	15250	0.95	ppm		85
96)	Indeno[1,2,3-cd]pyrene	18.89	276	10964	0.90	ppm		78
97)	Dibenz(a,h)acridine	18.54	279	9955	0.81	ppm		88
98)	Dibenz[a,h]anthracene	18.96	278	11046	0.94	ppm		91
99)	7,12-Dimethylbenz(a)anthra	16.23	256	8433	1.00	ppm		89
100)	Benzo[g,h,i]perylene	19.32	276	11879	0.92	ppm		93

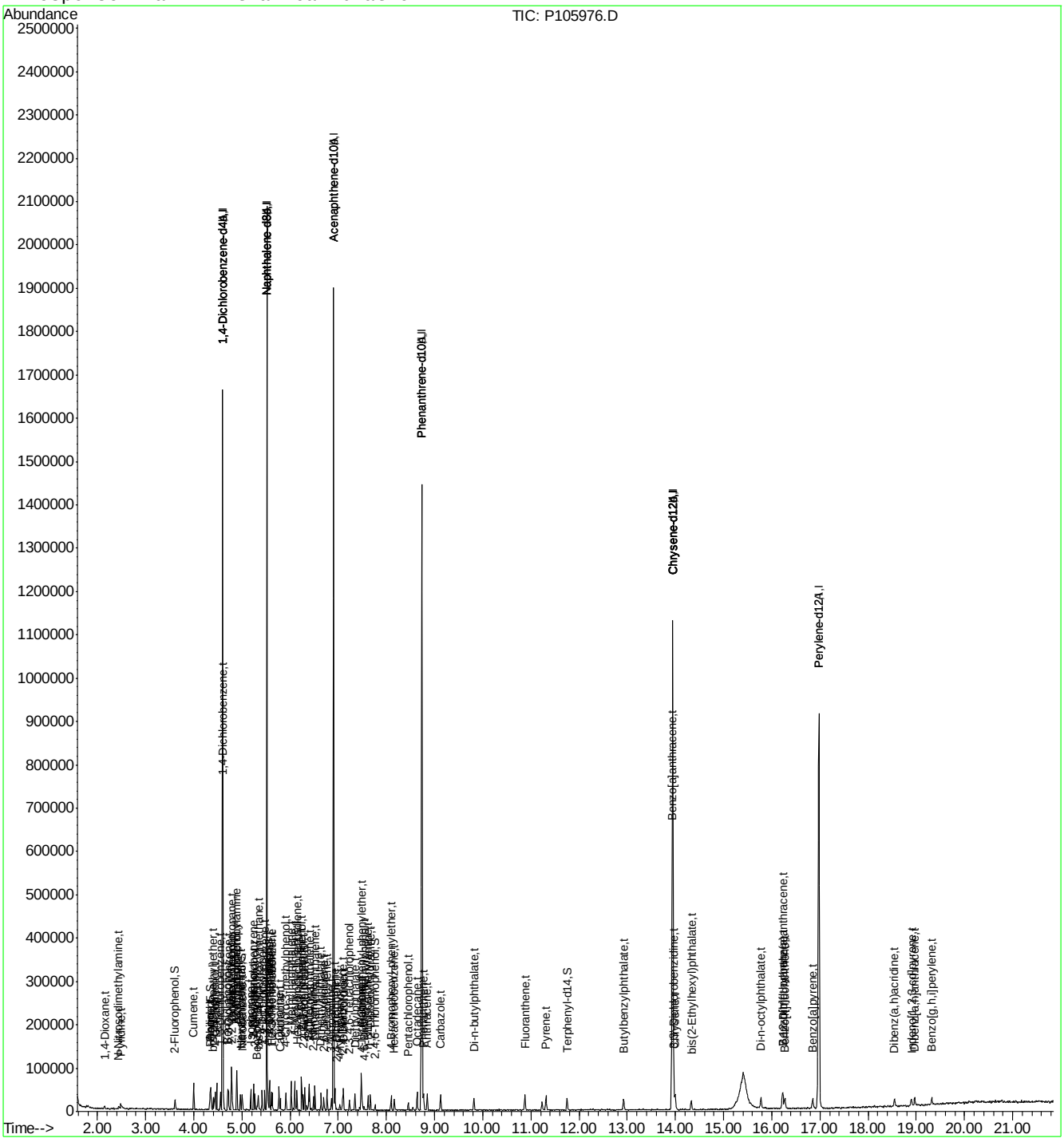
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105976.D Vial: 10
Acq On : 11 Jul 2016 10:29 am Operator: brittanp
Sample : ic4681-1 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:35 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:31:29 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105975.D Vial: 9
Acq On : 11 Jul 2016 10:58 am Operator: brittanp
Sample : ic4681-2 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:40:45 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:39:59 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	183298	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	606721	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	344574	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	631205	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	623252	40.00	ppm	-0.01
91) Perylene-d12	16.98	264	495369	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	183298	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	606721	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	344574	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	631205	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	623252	40.00	ppm	-0.01
154) Perylene-d12A	16.98	264	495369	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	183298	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	631205	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	623252	40.00	ppm	-0.01
164) Naphthalene-d8b	5.52	136	606721	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	344574	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	606721	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	183298	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	623252	40.00	ppm	-0.01
177) Chrysene-d12d	13.95	240	623252	40.00	ppm	-0.01
179) Naphthalene-d8d	5.52	136	606721	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.61	112	12601	2.04	ppm	0.00
Spiked Amount 50.000			Recovery = 4.08%			
8) Phenol-d5	4.34	99	19410	2.23	ppm	0.00
Spiked Amount 50.000			Recovery = 4.46%			
25) Nitrobenzene-d5	5.00	82	16836	2.20	ppm	0.00
Spiked Amount 50.000			Recovery = 4.40%			
51) 2-Fluorobiphenyl	6.30	172	26284	2.34	ppm	0.00
Spiked Amount 50.000			Recovery = 4.68%			
73) 2,4,6-Tribromophenol	7.77	330	2505	1.80	ppm	0.00
Spiked Amount 50.000			Recovery = 3.60%			
85) Terphenyl-d14	11.75	244	25180	2.08	ppm	0.00
Spiked Amount 50.000			Recovery = 4.16%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.15	88	6203	1.90	ppm	98
3) Pyridine	2.48	79	15558	1.94	ppm	84
4) N-Nitrosodimethylamine	2.45	42	6325	2.12	ppm	93
6) Indene	4.79	116	24174	2.24	ppm	90
7) Cumene	4.00	105	35710	2.21	ppm	99
9) Phenol	4.34	94	23691	2.31	ppm	77
10) Aniline	4.35	93	28267	2.40	ppm	94
11) bis(2-Chloroethyl)ether	4.41	93	15125	2.24	ppm	92
12) 2-Chlorophenol	4.44	128	13980	2.22	ppm	96
13) Decane	4.48	43	16757	2.41	ppm	98
14) 1,3-Dichlorobenzene	4.56	146	14877	2.31	ppm	85
15) 1,4-Dichlorobenzene	4.61	146	12898	2.10	ppm	92

(#) = qualifier out of range (m) = manual integration
P105975.D MP4681.M Mon Jul 11 14:42:58 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105975.D Vial: 9
Acq On : 11 Jul 2016 10:58 am Operator: brittanp
Sample : ic4681-2 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:40:45 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:39:59 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.70	108	9413	2.13	ppm		95
17)	1,2-Dichlorobenzene	4.72	146	12802	2.21	ppm		95
18)	Acetophenone	4.89	105	19857	2.31	ppm	#	68
19)	2-Methylphenol	4.79	108	12271	2.19	ppm		99
20)	2,2'-oxybis(1-Chloropropan	4.80	121	4046	2.05	ppm	#	46
21)	3&4-Methylphenol	4.89	108	14062	2.32	ppm		87
22)	n-Nitroso-di-n-propylamine	4.89	70	11756	2.38	ppm		98
23)	Hexachloroethane	4.97	201	4736	1.99	ppm		96
26)	Nitrobenzene	5.01	77	17369	2.20	ppm		96
27)	Quinoline	5.77	129	25335	2.10	ppm		99
28)	Isophorone	5.18	82	29374	2.20	ppm		95
29)	2-Nitrophenol	5.24	139	6610	2.07	ppm		72
30)	2,4-Dimethylphenol	5.27	107	14844	2.25	ppm		91
31)	Benzoic acid	5.31	105	8595	1.77	ppm		78
32)	bis(2-Chloroethoxy)methane	5.34	93	17475	2.26	ppm		88
33)	2,4-Dichlorophenol	5.42	162	10502	2.12	ppm		98
34)	2,6-Dichlorophenol	5.58	162	10139	2.10	ppm		95
35)	1,3,5-Trichlorobenzene	5.25	180	12481	2.20	ppm		96
36)	1,2,4-Trichlorobenzene	5.47	180	10957	2.05	ppm		91
37)	1,2,3-Trichlorobenzene	5.63	180	10666	2.07	ppm		98
38)	Naphthalene	5.53	128	34870	2.24	ppm		90
39)	4-Chloroaniline	5.57	127	16887	2.24	ppm		91
40)	2,3-Dichloroaniline	6.24	161	13685	2.28	ppm		95
41)	Caprolactam	5.79	55	8510	2.14	ppm		89
42)	Hexachlorobutadiene	5.61	225	6727	2.02	ppm		96
43)	4-Chloro-3-methylphenol	5.91	107	11988	2.13	ppm		96
44)	2-Methylnaphthalene	6.02	141	20782	2.21	ppm		98
45)	1-Methylnaphthalene	6.10	142	24347	2.24	ppm		93
46)	Dimethylnaphthalene	6.52	156	21604	2.20	ppm		92
48)	Hexachlorocyclopentadiene	6.14	237	11259	3.36	ppm		99
49)	2,4,6-Trichlorophenol	6.24	196	8313	2.23	ppm		85
50)	2,4,5-Trichlorophenol	6.27	196	8429	2.15	ppm		88
52)	2-Chloronaphthalene	6.40	162	22649	2.38	ppm		93
53)	Biphenyl	6.39	154	30732	2.34	ppm		92
54)	2-Nitroaniline	6.49	65	10313	2.17	ppm		90
55)	Dimethylphthalate	6.64	163	24317	2.23	ppm		96
56)	Acenaphthylene	6.77	152	36002	2.25	ppm		93
57)	2,6-Dinitrotoluene	6.70	165	4229	1.82	ppm		86
58)	3-Nitroaniline	6.86	138	6810	2.10	ppm		81
59)	Acenaphthene	6.93	153	21357	2.24	ppm		96
60)	2,4-Dinitrophenol	6.96	184	1922	7.05	ppm		77
61)	4-Nitrophenol	7.03	109	3489	1.67	ppm		90
62)	Dibenzofuran	7.10	168	35760	2.34	ppm		90
63)	2,4-Dinitrotoluene	7.09	165	6564	1.97	ppm		92
64)	2,3,4,6-Tetrachlorophenol	7.23	232	5733	1.83	ppm		93
65)	Diethylphthalate	7.35	149	26794	2.19	ppm		97
66)	Fluorene	7.48	166	25461	2.14	ppm		97
67)	4-Chlorophenyl-phenylether	7.48	204	13467	2.24	ppm		91
68)	4-Nitroaniline	7.50	138	6722	2.07	ppm		87

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

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105975.D Vial: 9
Acq On : 11 Jul 2016 10:58 am Operator: brittanp
Sample : ic4681-2 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:40:45 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:39:59 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

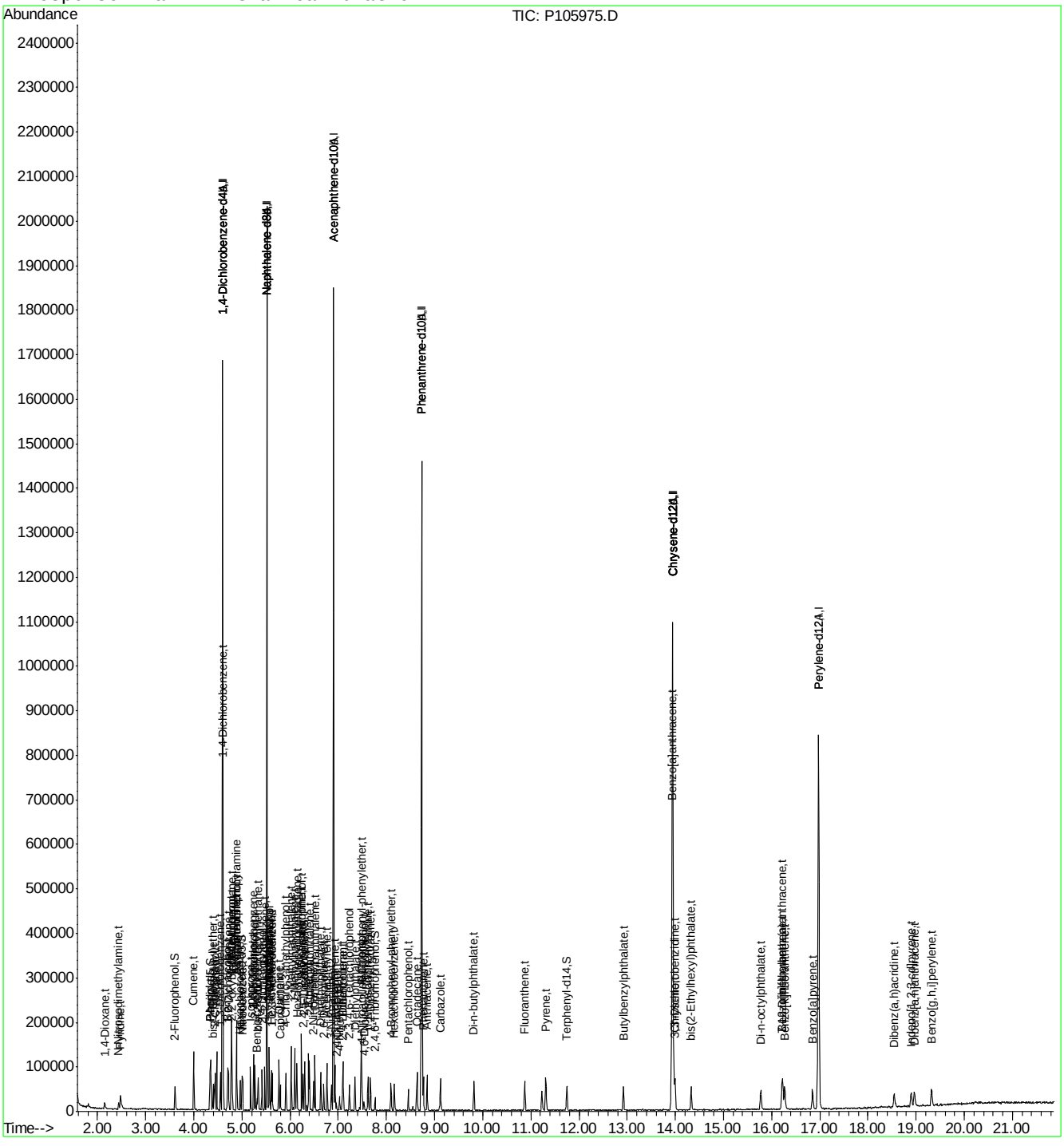
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.54	198	2473	1.19 ppm	89
71)	n-Nitrosodiphenylamine	7.62	169	17194	2.09 ppm	94
72)	1,2-Diphenylhydrazine	7.67	77	34030	2.27 ppm	97
74)	4-Bromophenyl-phenylether	8.10	248	7056	2.01 ppm	83
75)	Hexachlorobenzene	8.17	284	7262	2.03 ppm	93
76)	Pentachlorophenol	8.46	266	5329	2.64 ppm	91
77)	Phenanthrene	8.77	178	34484	2.21 ppm	98
78)	Anthracene	8.85	178	34914	2.19 ppm	98
79)	Carbazole	9.12	167	36725	2.19 ppm	97
80)	Di-n-butylphthalate	9.82	149	43519	2.11 ppm	95
81)	Fluoranthene	10.88	202	43483	2.07 ppm	95
82)	Octadecane	8.64	57	23712	2.26 ppm	90
84)	Pyrene	11.31	202	45893	2.20 ppm	95
86)	Butylbenzylphthalate	12.92	149	18826	2.03 ppm	94
87)	Benzo[a]anthracene	13.93	228	38284	2.13 ppm	96
88)	3,3'-Dichlorobenzidine	13.98	252	11349	1.90 ppm	91
89)	Chrysene	14.00	228	34150	2.14 ppm	97
90)	bis(2-Ethylhexyl)phthalate	14.33	149	22544	2.05 ppm	96
92)	Di-n-octylphthalate	15.78	149	37227	1.81 ppm	94
93)	Benzo[b]fluoranthene	16.22	252	34121	1.92 ppm	95
94)	Benzo[k]fluoranthene	16.27	252	33280	2.19 ppm	94
95)	Benzo[a]pyrene	16.85	252	28700	1.88 ppm	99
96)	Indeno[1,2,3-cd]pyrene	18.89	276	21207	1.86 ppm	87
97)	Dibenz(a,h)acridine	18.54	279	21155	1.86 ppm	93
98)	Dibenz[a,h]anthracene	18.96	278	23694	2.14 ppm	97
99)	7,12-Dimethylbenz(a)anthra	16.23	256	15846	1.98 ppm	91
100)	Benzo[g,h,i]perylene	19.32	276	24470	2.01 ppm	84

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105975.D Vial: 9
Acq On : 11 Jul 2016 10:58 am Operator: brittanp
Sample : ic4681-2 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:42 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:39:59 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105971.D Vial: 5
Acq On : 11 Jul 2016 11:27 am Operator: brittanp
Sample : ic4681-80 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:11:31 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:11:28 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	170632	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	556644	40.00	ppm	0.00
47) Acenaphthene-d10	6.91	164	324687	40.00	ppm	0.00
69) Phenanthrene-d10	8.74	188	574915	40.00	ppm	0.00
83) Chrysene-d12	13.96	240	591491	40.00	ppm	0.00
91) Perylene-d12	16.98	264	419486	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	170632	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	556644	40.00	ppm	0.00
120) Acenaphthene-d10A	6.91	164	324687	40.00	ppm	0.00
131) Phenanthrene-d10A	8.74	188	574915	40.00	ppm	0.00
146) Chrysene-d12A	13.96	240	591491	40.00	ppm	0.00
154) Perylene-d12A	16.98	264	419486	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	170632	40.00	ppm	0.00
160) Phenanthrene-d10b	8.74	188	574915	40.00	ppm	0.00
162) Chrysene-d12b	13.96	240	591491	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	556644	40.00	ppm	0.00
166) Acenaphthene-d10b	6.91	164	324687	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	556644	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	170632	40.00	ppm	-0.01
175) Chrysene-d12c	13.96	240	591491	40.00	ppm	0.00
177) Chrysene-d12d	13.96	240	591491	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	556644	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.62	112	452687	79.62	ppm	0.00
Spiked Amount 50.000			Recovery = 159.24%			
8) Phenol-d5	4.34	99	596399	77.49	ppm	0.00
Spiked Amount 50.000			Recovery = 154.98%			
25) Nitrobenzene-d5	5.00	82	503663	77.64	ppm	0.00
Spiked Amount 50.000			Recovery = 155.28%			
51) 2-Fluorobiphenyl	6.31	172	734354	77.46	ppm	0.00
Spiked Amount 50.000			Recovery = 154.92%			
73) 2,4,6-Tribromophenol	7.77	330	112224	81.06	ppm	0.00
Spiked Amount 50.000			Recovery = 162.12%			
85) Terphenyl-d14	11.76	244	883055	78.62	ppm	0.00
Spiked Amount 50.000			Recovery = 157.24%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.14	88	241514	84.98	ppm	94
3) Pyridine	2.46	79	589361	82.95	ppm	93
4) N-Nitrosodimethylamine	2.43	42	216472	76.73	ppm	86
6) Indene	4.79	116	668486	76.95	ppm	98
7) Cumene	4.00	105	1014112	78.00	ppm	98
9) Phenol	4.35	94	617529	77.06	ppm	98
10) Aniline	4.36	93	708985	78.89	ppm	81
11) bis(2-Chloroethyl)ether	4.41	93	442428	78.73	ppm	98
12) 2-Chlorophenol	4.45	128	420636	77.79	ppm	99
13) Decane	4.48	43	354900	73.74	ppm	93
14) 1,3-Dichlorobenzene	4.56	146	435938	79.54	ppm	97
15) 1,4-Dichlorobenzene	4.61	146	422587	78.49	ppm	98

(#) = qualifier out of range (m) = manual integration
P105971.D MP4681.M Mon Jul 11 14:14:00 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105971.D Vial: 5
Acq On : 11 Jul 2016 11:27 am Operator: brittanp
Sample : ic4681-80 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:11:31 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:11:28 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.71	108	294203	78.59	ppm		95
17) 1,2-Dichlorobenzene	4.72	146	383013	79.10	ppm		97
18) Acetophenone	4.90	105	509654	75.45	ppm		78
19) 2-Methylphenol	4.79	108	356687	76.89	ppm		100
20) 2,2'-oxybis(1-Chloropropan	4.80	121	131796	78.22	ppm	#	79
21) 3&4-Methylphenol	4.90	108	358509	74.68	ppm		99
22) n-Nitroso-di-n-propylamine	4.90	70	248747	72.80	ppm	#	82
23) Hexachloroethane	4.97	201	172319	77.38	ppm		95
26) Nitrobenzene	5.02	77	486401	77.20	ppm		97
27) Quinoline	5.78	129	808809	77.70	ppm		99
28) Isophorone	5.19	82	839226	77.45	ppm		99
29) 2-Nitrophenol	5.24	139	223009	77.73	ppm		94
30) 2,4-Dimethylphenol	5.28	107	431799	78.72	ppm		95
31) Benzoic acid	5.39	105	394099	78.86	ppm		95
32) bis(2-Chloroethoxy)methane	5.35	93	493682	78.88	ppm		98
33) 2,4-Dichlorophenol	5.42	162	340022	77.95	ppm		98
34) 2,6-Dichlorophenol	5.58	162	321736	75.99	ppm		97
35) 1,3,5-Trichlorobenzene	5.25	180	376177	78.64	ppm		97
36) 1,2,4-Trichlorobenzene	5.48	180	356610	77.98	ppm		97
37) 1,2,3-Trichlorobenzene	5.63	180	348359	78.27	ppm		98
38) Naphthalene	5.53	128	952618	77.24	ppm		97
39) 4-Chloroaniline	5.58	127	478749	77.01	ppm		99
40) 2,3-Dichloroaniline	6.24	161	389351	77.02	ppm		98
41) Caprolactam	5.85	55	264447	77.19	ppm		95
42) Hexachlorobutadiene	5.62	225	233896	76.84	ppm		98
43) 4-Chloro-3-methylphenol	5.92	107	383314	76.78	ppm		99
44) 2-Methylnaphthalene	6.03	141	605138	76.98	ppm		97
45) 1-Methylnaphthalene	6.10	142	696258	77.11	ppm		98
46) Dimethylnaphthalene	6.53	156	634652	77.05	ppm		98
48) Hexachlorocyclopentadiene	6.14	237	548855	154.80	ppm		96
49) 2,4,6-Trichlorophenol	6.25	196	262626	76.00	ppm		99
50) 2,4,5-Trichlorophenol	6.28	196	282408	78.35	ppm		99
52) 2-Chloronaphthalene	6.41	162	613351	76.61	ppm		96
53) Biphenyl	6.39	154	849454	76.44	ppm		98
54) 2-Nitroaniline	6.50	65	323632	77.16	ppm		99
55) Dimethylphthalate	6.65	163	737366	78.22	ppm		99
56) Acenaphthylene	6.77	152	1035801	76.05	ppm		97
57) 2,6-Dinitrotoluene	6.71	165	176599	77.35	ppm		96
58) 3-Nitroaniline	6.87	138	244099	79.67	ppm		98
59) Acenaphthene	6.94	153	647660	76.98	ppm		95
60) 2,4-Dinitrophenol	6.97	184	254455	160.69	ppm		89
61) 4-Nitrophenol	7.04	109	169068	76.76	ppm		91
62) Dibenzofuran	7.11	168	990728	76.70	ppm		99
63) 2,4-Dinitrotoluene	7.10	165	251528	77.24	ppm		94
64) 2,3,4,6-Tetrachlorophenol	7.24	232	249395	77.91	ppm		99
65) Diethylphthalate	7.36	149	836748	76.13	ppm		97
66) Fluorene	7.48	166	804560	76.50	ppm		98
67) 4-Chlorophenyl-phenylether	7.48	204	421788	77.11	ppm		98
68) 4-Nitroaniline	7.53	138	229016	74.82	ppm		98

(#) = qualifier out of range (m) = manual integration
P105971.D MP4681.M Mon Jul 11 14:14:00 2016

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105971.D Vial: 5
Acq On : 11 Jul 2016 11:27 am Operator: brittanp
Sample : ic4681-80 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:11:31 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:11:28 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.55	198	168292	79.26	ppm	94
71)	n-Nitrosodiphenylamine	7.63	169	573281	79.42	ppm	98
72)	1,2-Diphenylhydrazine	7.68	77	919769	77.52	ppm	97
74)	4-Bromophenyl-phenylether	8.10	248	262944	80.89	ppm	98
75)	Hexachlorobenzene	8.17	284	255272	79.91	ppm	99
76)	Pentachlorophenol	8.46	266	340165	157.10	ppm	99
77)	Phenanthrene	8.78	178	1038605	78.65	ppm	96
78)	Anthracene	8.86	178	1075654	80.04	ppm	99
79)	Carbazole	9.13	167	1110134	77.39	ppm	99
80)	Di-n-butylphthalate	9.83	149	1413939	77.40	ppm	99
81)	Fluoranthene	10.89	202	1434728	78.34	ppm	97
82)	Octadecane	8.64	57	644024	77.60	ppm	96
84)	Pyrene	11.33	202	1410837	76.90	ppm	99
86)	Butylbenzylphthalate	12.93	149	698789	78.09	ppm	99
87)	Benzo[a]anthracene	13.94	228	1285878	78.87	ppm	99
88)	3,3'-Dichlorobenzidine	14.00	252	473325	80.34	ppm	100
89)	Chrysene	14.02	228	1131935	78.30	ppm	97
90)	bis(2-Ethylhexyl)phthalate	14.34	149	811950	77.94	ppm	98
92)	Di-n-octylphthalate	15.78	149	1408301	77.62	ppm	99
93)	Benzo[b]fluoranthene	16.24	252	1220613	78.07	ppm	99
94)	Benzo[k]fluoranthene	16.31	252	953748	77.23	ppm	98
95)	Benzo[a]pyrene	16.88	252	1042734	79.16	ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.93	276	809932	81.01	ppm	99
97)	Dibenz(a,h)acridine	18.57	279	842284	82.19	ppm	97
98)	Dibenz[a,h]anthracene	19.00	278	726212	79.67	ppm	99
99)	7,12-Dimethylbenz(a)anthra	16.27	256	547011	78.16	ppm	99
100)	Benzo[g,h,i]perylene	19.36	276	824863	82.15	ppm	98

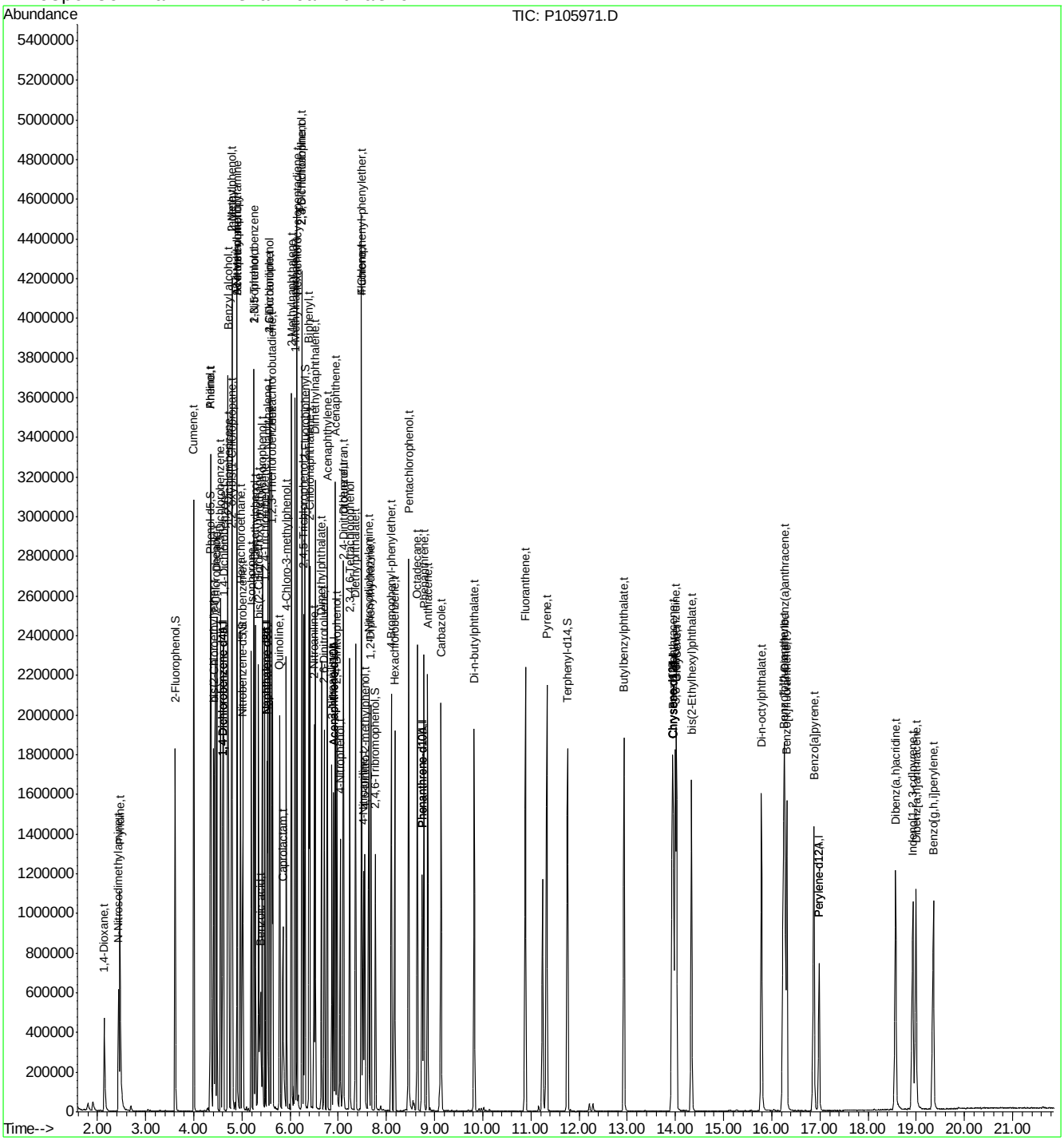
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105971.D Vial: 5
Acq On : 11 Jul 2016 11:27 am Operator: brittanp
Sample : ic4681-80 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:13 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:11:28 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105972A.D Vial: 6
Acq On : 11 Jul 2016 12:25 pm Operator: brittanp
Sample : ic4681-25 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:14:32 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:14:09 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	176551	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	584943	40.00	ppm	0.00
47) Acenaphthene-d10	6.91	164	348940	40.00	ppm	0.00
69) Phenanthrene-d10	8.74	188	617233	40.00	ppm	0.00
83) Chrysene-d12	13.96	240	632893	40.00	ppm	0.00
91) Perylene-d12	16.99	264	473534	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	176551	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	584943	40.00	ppm	0.00
120) Acenaphthene-d10A	6.91	164	348940	40.00	ppm	0.00
131) Phenanthrene-d10A	8.74	188	617233	40.00	ppm	0.00
146) Chrysene-d12A	13.96	240	632893	40.00	ppm	0.00
154) Perylene-d12A	16.99	264	473534	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	176551	40.00	ppm	0.00
160) Phenanthrene-d10b	8.74	188	617233	40.00	ppm	0.00
162) Chrysene-d12b	13.96	240	632893	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	584943	40.00	ppm	0.00
166) Acenaphthene-d10b	6.91	164	348940	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	584943	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	176551	40.00	ppm	-0.01
175) Chrysene-d12c	13.96	240	632893	40.00	ppm	0.00
177) Chrysene-d12d	13.96	240	632893	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	584943	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.61	112	153420	26.12	ppm	0.00
Spiked Amount 50.000			Recovery = 52.24%			
8) Phenol-d5	4.34	99	217308	27.58	ppm	0.00
Spiked Amount 50.000			Recovery = 55.16%			
25) Nitrobenzene-d5	5.00	82	181635	26.91	ppm	0.00
Spiked Amount 50.000			Recovery = 53.82%			
51) 2-Fluorobiphenyl	6.31	172	269379	26.72	ppm	0.00
Spiked Amount 50.000			Recovery = 53.44%			
73) 2,4,6-Tribromophenol	7.77	330	32832	21.99	ppm	0.00
Spiked Amount 50.000			Recovery = 43.98%			
85) Terphenyl-d14	11.76	244	298773	25.00	ppm	0.00
Spiked Amount 50.000			Recovery = 50.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.14	88	79973	26.64	ppm	99
3) Pyridine	2.46	79	209319	28.13	ppm	97
4) N-Nitrosodimethylamine	2.43	42	75386	26.18	ppm	95
6) Indene	4.79	116	269199	30.33	ppm	99
7) Cumene	4.00	105	401861	30.12	ppm	96
9) Phenol	4.35	94	251033	30.65	ppm	83
10) Aniline	4.36	93	280276	30.28	ppm	91
11) bis(2-Chloroethyl)ether	4.41	93	159220	27.53	ppm	97
12) 2-Chlorophenol	4.44	128	149317	26.94	ppm	92
13) Decane	4.48	43	163098	33.63	ppm	95
14) 1,3-Dichlorobenzene	4.56	146	150899	26.66	ppm	97
15) 1,4-Dichlorobenzene	4.61	146	144226	26.05	ppm	98

(#) = qualifier out of range (m) = manual integration
P105972A.D MP4681.M Mon Jul 11 14:16:38 2016

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105972A.D Vial: 6
Acq On : 11 Jul 2016 12:25 pm Operator: brittanp
Sample : ic4681-25 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:14:32 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:14:09 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
16)	Benzyl alcohol	4.70	108	108756	28.24 ppm		95
17)	1,2-Dichlorobenzene	4.72	146	137484	27.55 ppm		91
18)	Acetophenone	4.89	105	211273	30.81 ppm	#	67
19)	2-Methylphenol	4.79	108	139734	29.50 ppm		97
20)	2,2'-oxybis(1-Chloropropan	4.80	121	46353	26.79 ppm	#	86
21)	3&4-Methylphenol	4.90	108	153496	31.60 ppm		96
22)	n-Nitroso-di-n-propylamine	4.89	70	117870	34.37 ppm		95
23)	Hexachloroethane	4.97	201	56716	24.89 ppm		97
26)	Nitrobenzene	5.01	77	183170	27.99 ppm		94
27)	Quinoline	5.77	129	282927	26.12 ppm		97
28)	Isophorone	5.19	82	318860	28.30 ppm		97
29)	2-Nitrophenol	5.24	139	79957	26.77 ppm		96
30)	2,4-Dimethylphenol	5.28	107	158622	27.67 ppm		98
31)	Benzoic acid	5.36	105	120315	23.02 ppm		96
32)	bis(2-Chloroethoxy)methane	5.34	93	176276	26.93 ppm		98
33)	2,4-Dichlorophenol	5.42	162	118827	26.15 ppm		97
34)	2,6-Dichlorophenol	5.58	162	114335	26.14 ppm		96
35)	1,3,5-Trichlorobenzene	5.25	180	134949	27.00 ppm		98
36)	1,2,4-Trichlorobenzene	5.47	180	124946	26.22 ppm		99
37)	1,2,3-Trichlorobenzene	5.63	180	121895	26.25 ppm		97
38)	Naphthalene	5.53	128	376425	29.38 ppm		97
39)	4-Chloroaniline	5.57	127	181982	28.21 ppm		93
40)	2,3-Dichloroaniline	6.24	161	143341	27.32 ppm		96
41)	Caprolactam	5.82	55	92253	25.93 ppm		98
42)	Hexachlorobutadiene	5.62	225	79708	25.25 ppm		97
43)	4-Chloro-3-methylphenol	5.92	107	137249	26.52 ppm		96
44)	2-Methylnaphthalene	6.03	141	228059	27.96 ppm		97
45)	1-Methylnaphthalene	6.10	142	260613	27.80 ppm		97
46)	Dimethylnaphthalene	6.52	156	231313	27.06 ppm		99
48)	Hexachlorocyclopentadiene	6.14	237	177149	47.00 ppm		97
49)	2,4,6-Trichlorophenol	6.24	196	90434	24.76 ppm		99
50)	2,4,5-Trichlorophenol	6.28	196	94674	24.61 ppm		97
52)	2-Chloronaphthalene	6.41	162	226534	26.70 ppm		95
53)	Biphenyl	6.39	154	319843	27.18 ppm		95
54)	2-Nitroaniline	6.49	65	116854	26.23 ppm		93
55)	Dimethylphthalate	6.64	163	258872	25.74 ppm		98
56)	Acenaphthylene	6.77	152	392741	27.28 ppm		96
57)	2,6-Dinitrotoluene	6.70	165	58450	24.09 ppm		93
58)	3-Nitroaniline	6.86	138	81621	24.82 ppm		98
59)	Acenaphthene	6.94	153	232271	26.02 ppm		97
60)	2,4-Dinitrophenol	6.96	184	71694	42.07 ppm		89
61)	4-Nitrophenol	7.03	109	53993	23.12 ppm		90
62)	Dibenzofuran	7.11	168	366478	26.77 ppm		95
63)	2,4-Dinitrotoluene	7.09	165	83959	24.27 ppm		90
64)	2,3,4,6-Tetrachlorophenol	7.24	232	79603	23.34 ppm		94
65)	Diethylphthalate	7.35	149	296234	25.49 ppm		97
66)	Fluorene	7.48	166	294116	26.41 ppm		99
67)	4-Chlorophenyl-phenylether	7.48	204	145111	24.99 ppm		97
68)	4-Nitroaniline	7.51	138	80590	25.04 ppm		98

(#) = qualifier out of range (m) = manual integration
P105972A.D MP4681.M Mon Jul 11 14:16:38 2016

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105972A.D Vial: 6
Acq On : 11 Jul 2016 12:25 pm Operator: brittanp
Sample : ic4681-25 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:14:32 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:14:09 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.54	198	50410	22.18	ppm	97
71)	n-Nitrosodiphenylamine	7.63	169	192696	24.93	ppm	99
72)	1,2-Diphenylhydrazine	7.68	77	360434	28.59	ppm	97
74)	4-Bromophenyl-phenylether	8.10	248	80863	23.09	ppm	95
75)	Hexachlorobenzene	8.17	284	83377	24.32	ppm	99
76)	Pentachlorophenol	8.46	266	103127	44.63	ppm	95
77)	Phenanthrene	8.78	178	363288	25.77	ppm	99
78)	Anthracene	8.86	178	380502	26.37	ppm	98
79)	Carbazole	9.13	167	400011	26.26	ppm	98
80)	Di-n-butylphthalate	9.83	149	504494	26.00	ppm	98
81)	Fluoranthene	10.89	202	508413	26.04	ppm	99
82)	Octadecane	8.64	57	258107	29.26	ppm	97
84)	Pyrene	11.32	202	505400	26.08	ppm	99
86)	Butylbenzylphthalate	12.93	149	232041	24.43	ppm	95
87)	Benzo[a]anthracene	13.94	228	441874	25.45	ppm	97
88)	3,3'-Dichlorobenzidine	13.98	252	150181	23.79	ppm	99
89)	Chrysene	14.01	228	387811	25.25	ppm	99
90)	bis(2-Ethylhexyl)phthalate	14.34	149	281272	25.45	ppm	100
92)	Di-n-octylphthalate	15.78	149	492622	24.29	ppm	99
93)	Benzo[b]fluoranthene	16.23	252	420087	24.00	ppm	99
94)	Benzo[k]fluoranthene	16.30	252	345132	25.05	ppm	98
95)	Benzo[a]pyrene	16.86	252	361717	24.41	ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.92	276	273105	24.10	ppm	96
97)	Dibenz(a,h)acridine	18.56	279	269494	23.09	ppm	96
98)	Dibenz[a,h]anthracene	18.98	278	251514	24.48	ppm	98
99)	7,12-Dimethylbenz(a)anthra	16.25	256	180933	23.08	ppm	97
100)	Benzo[g,h,i]perylene	19.34	276	280387	24.52	ppm	96

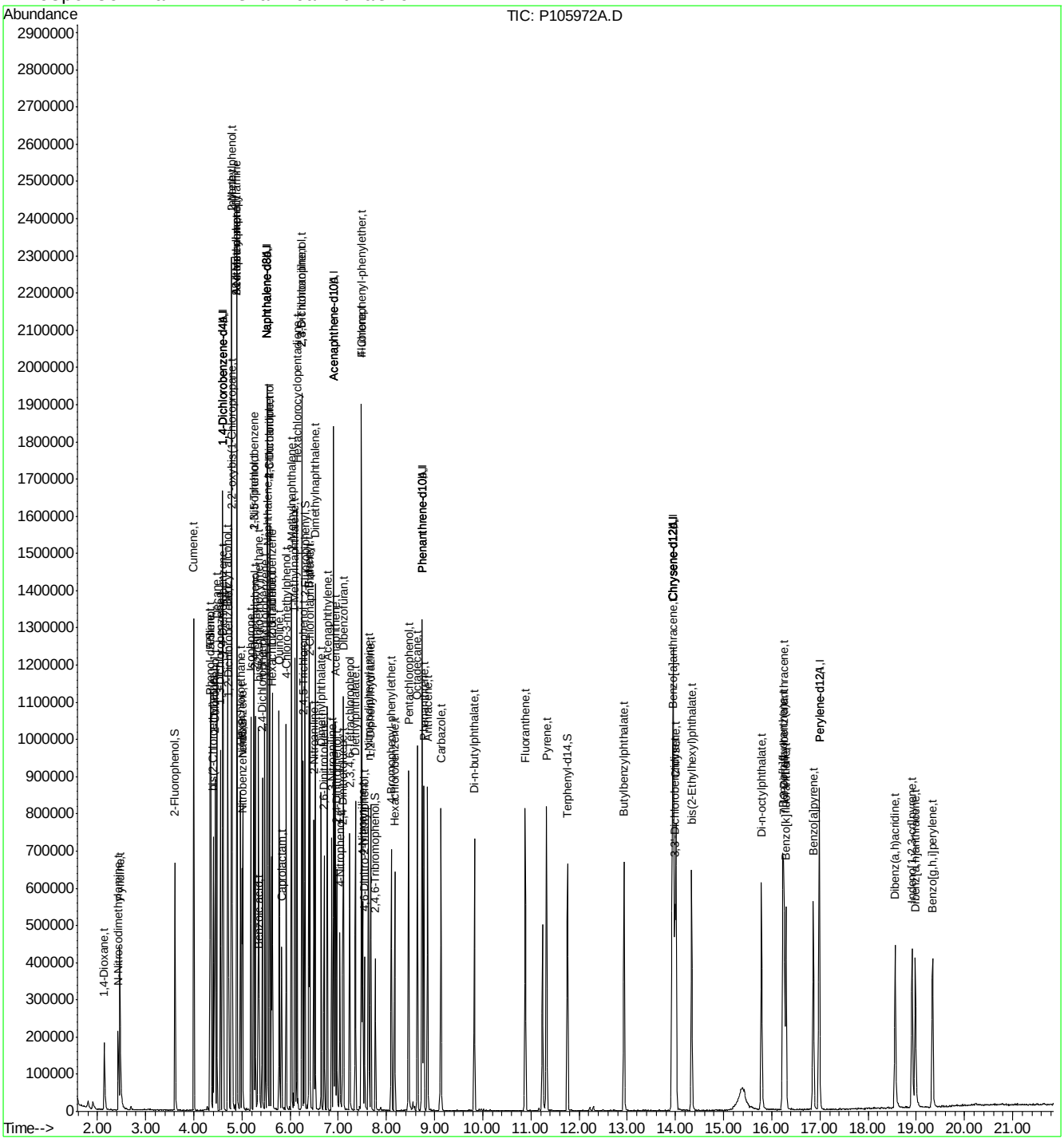
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105972A.D Vial: 6
Acq On : 11 Jul 2016 12:25 pm Operator: brittanp
Sample : ic4681-25 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:16 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:14:09 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105973.D Vial: 7
Acq On : 11 Jul 2016 12:57 pm Operator: brittanp
Sample : ic4681-10 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:23:44 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:23:24 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	185907	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	601452	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	357738	40.00	ppm	0.00
69) Phenanthrene-d10	8.74	188	643759	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	657472	40.00	ppm	0.00
91) Perylene-d12	16.98	264	495253	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	185907	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	601452	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	357738	40.00	ppm	0.00
131) Phenanthrene-d10A	8.74	188	643759	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	657472	40.00	ppm	0.00
154) Perylene-d12A	16.98	264	495253	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	185907	40.00	ppm	0.00
160) Phenanthrene-d10b	8.74	188	643759	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	657472	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	601452	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	357738	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	601452	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	185907	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	657472	40.00	ppm	0.00
177) Chrysene-d12d	13.95	240	657472	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	601452	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.61	112	67201	10.75	ppm	0.00
Spiked Amount 50.000			Recovery = 21.50%			
8) Phenol-d5	4.34	99	94484	11.10	ppm	0.00
Spiked Amount 50.000			Recovery = 22.20%			
25) Nitrobenzene-d5	5.00	82	80730	11.41	ppm	0.00
Spiked Amount 50.000			Recovery = 22.82%			
51) 2-Fluorobiphenyl	6.31	172	123323	11.73	ppm	0.00
Spiked Amount 50.000			Recovery = 23.46%			
73) 2,4,6-Tribromophenol	7.77	330	13879	9.19	ppm	0.00
Spiked Amount 50.000			Recovery = 18.38%			
85) Terphenyl-d14	11.75	244	129069	10.40	ppm	0.00
Spiked Amount 50.000			Recovery = 20.80%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.15	88	37024	11.52	ppm	88
3) Pyridine	2.47	79	92707	11.47	ppm	100
4) N-Nitrosodimethylamine	2.43	42	31171	10.16	ppm	83
6) Indene	4.79	116	119170	12.11	ppm	98
7) Cumene	4.00	105	179817	12.18	ppm	94
9) Phenol	4.34	94	112052	12.30	ppm	80
10) Aniline	4.35	93	130302	12.70	ppm	97
11) bis(2-Chloroethyl)ether	4.41	93	72590	11.62	ppm	96
12) 2-Chlorophenol	4.44	128	67688	11.38	ppm	92
13) Decane	4.48	43	74286	13.39	ppm	97
14) 1,3-Dichlorobenzene	4.56	146	67616	11.16	ppm	97
15) 1,4-Dichlorobenzene	4.61	146	68070	11.56	ppm	89

(#) = qualifier out of range (m) = manual integration
P105973.D MP4681.M Mon Jul 11 14:24:56 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105973.D Vial: 7
Acq On : 11 Jul 2016 12:57 pm Operator: brittanp
Sample : ic4681-10 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:23:44 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:23:24 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
16) Benzyl alcohol	4.70	108	46189	11.03 ppm		92
17) 1,2-Dichlorobenzene	4.72	146	62660	11.63 ppm		93
18) Acetophenone	4.89	105	96479	12.63 ppm	#	63
19) 2-Methylphenol	4.79	108	63445	12.17 ppm		97
20) 2,2'-oxybis(1-Chloropropan	4.80	121	20358	10.98 ppm	#	69
21) 3&4-Methylphenol	4.89	108	66758	12.24 ppm		93
22) n-Nitroso-di-n-propylamine	4.89	70	53795	13.62 ppm		98
23) Hexachloroethane	4.97	201	24339	10.15 ppm		97
26) Nitrobenzene	5.01	77	83531	12.05 ppm		95
27) Quinoline	5.77	129	124616	11.06 ppm		99
28) Isophorone	5.19	82	140652	11.75 ppm		97
29) 2-Nitrophenol	5.24	139	33756	10.80 ppm		81
30) 2,4-Dimethylphenol	5.27	107	70407	11.63 ppm		97
31) Benzoic acid	5.34	105	49526	9.40 ppm		95
32) bis(2-Chloroethoxy)methane	5.34	93	82239	11.99 ppm		96
33) 2,4-Dichlorophenol	5.42	162	51658	10.93 ppm		97
34) 2,6-Dichlorophenol	5.58	162	50818	11.17 ppm		97
35) 1,3,5-Trichlorobenzene	5.25	180	59845	11.42 ppm		96
36) 1,2,4-Trichlorobenzene	5.47	180	54805	11.05 ppm		96
37) 1,2,3-Trichlorobenzene	5.63	180	53925	11.16 ppm		97
38) Naphthalene	5.53	128	165967	12.07 ppm		95
39) 4-Chloroaniline	5.57	127	81818	11.95 ppm		93
40) 2,3-Dichloroaniline	6.24	161	63544	11.51 ppm		97
41) Caprolactam	5.81	55	41541	11.25 ppm		96
42) Hexachlorobutadiene	5.62	225	34572	10.62 ppm		96
43) 4-Chloro-3-methylphenol	5.92	107	59298	10.98 ppm		98
44) 2-Methylnaphthalene	6.02	141	100813	11.68 ppm		99
45) 1-Methylnaphthalene	6.10	142	113229	11.43 ppm		99
46) Dimethylnaphthalene	6.52	156	102226	11.40 ppm		99
48) Hexachlorocyclopentadiene	6.14	237	72560	19.06 ppm		100
49) 2,4,6-Trichlorophenol	6.24	196	40101	10.74 ppm		99
50) 2,4,5-Trichlorophenol	6.27	196	40538	10.32 ppm		93
52) 2-Chloronaphthalene	6.40	162	100410	11.35 ppm		97
53) Biphenyl	6.39	154	143443	11.64 ppm		96
54) 2-Nitroaniline	6.49	65	49925	10.80 ppm		87
55) Dimethylphthalate	6.64	163	115279	11.10 ppm		96
56) Acenaphthylene	6.77	152	177163	11.74 ppm		96
57) 2,6-Dinitrotoluene	6.70	165	25027	10.15 ppm		99
58) 3-Nitroaniline	6.86	138	34402	10.22 ppm		98
59) Acenaphthene	6.93	153	102873	11.13 ppm		98
60) 2,4-Dinitrophenol	6.96	184	24539	14.62 ppm		82
61) 4-Nitrophenol	7.03	109	21549	9.17 ppm		93
62) Dibenzofuran	7.10	168	169309	11.85 ppm		95
63) 2,4-Dinitrotoluene	7.09	165	35278	10.02 ppm		97
64) 2,3,4,6-Tetrachlorophenol	7.23	232	31474	9.15 ppm		94
65) Diethylphthalate	7.35	149	129385	10.81 ppm		97
66) Fluorene	7.48	166	129398	11.18 ppm		98
67) 4-Chlorophenyl-phenylether	7.48	204	62433	10.49 ppm		91
68) 4-Nitroaniline	7.50	138	35332	10.70 ppm		97

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

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105973.D Vial: 7
Acq On : 11 Jul 2016 12:57 pm Operator: brittanp
Sample : ic4681-10 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:23:44 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:23:24 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.54	198	18308	7.95	ppm	88
71)	n-Nitrosodiphenylamine	7.62	169	85822	10.65	ppm	98
72)	1,2-Diphenylhydrazine	7.67	77	161522	11.86	ppm	93
74)	4-Bromophenyl-phenylether	8.10	248	36121	10.08	ppm	97
75)	Hexachlorobenzene	8.17	284	34647	9.76	ppm	95
76)	Pentachlorophenol	8.46	266	39197	16.71	ppm	97
77)	Phenanthrene	8.77	178	160265	10.82	ppm	97
78)	Anthracene	8.85	178	171268	11.23	ppm	95
79)	Carbazole	9.13	167	179194	11.14	ppm	95
80)	Di-n-butylphthalate	9.82	149	219830	10.76	ppm	96
81)	Fluoranthene	10.88	202	222434	10.81	ppm	97
82)	Octadecane	8.64	57	114272	11.91	ppm	94
84)	Pyrene	11.31	202	227562	11.18	ppm	96
86)	Butylbenzylphthalate	12.93	149	100160	10.21	ppm	97
87)	Benzo[a]anthracene	13.93	228	192749	10.64	ppm	98
88)	3,3'-Dichlorobenzidine	13.98	252	62761	9.69	ppm	99
89)	Chrysene	14.00	228	170500	10.66	ppm	98
90)	bis(2-Ethylhexyl)phthalate	14.33	149	120831	10.48	ppm	99
92)	Di-n-octylphthalate	15.78	149	213297	10.13	ppm	98
93)	Benzo[b]fluoranthene	16.22	252	178218	9.83	ppm	99
94)	Benzo[k]fluoranthene	16.28	252	157738	10.94	ppm	96
95)	Benzo[a]pyrene	16.85	252	156860	10.18	ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.90	276	115963	9.87	ppm	95
97)	Dibenz(a,h)acridine	18.55	279	116348	9.72	ppm	94
98)	Dibenz[a,h]anthracene	18.97	278	113259	10.59	ppm	98
99)	7,12-Dimethylbenz(a)anthra	16.24	256	77850	9.68	ppm	93
100)	Benzo[g,h,i]perylene	19.33	276	131133	11.02	ppm	93

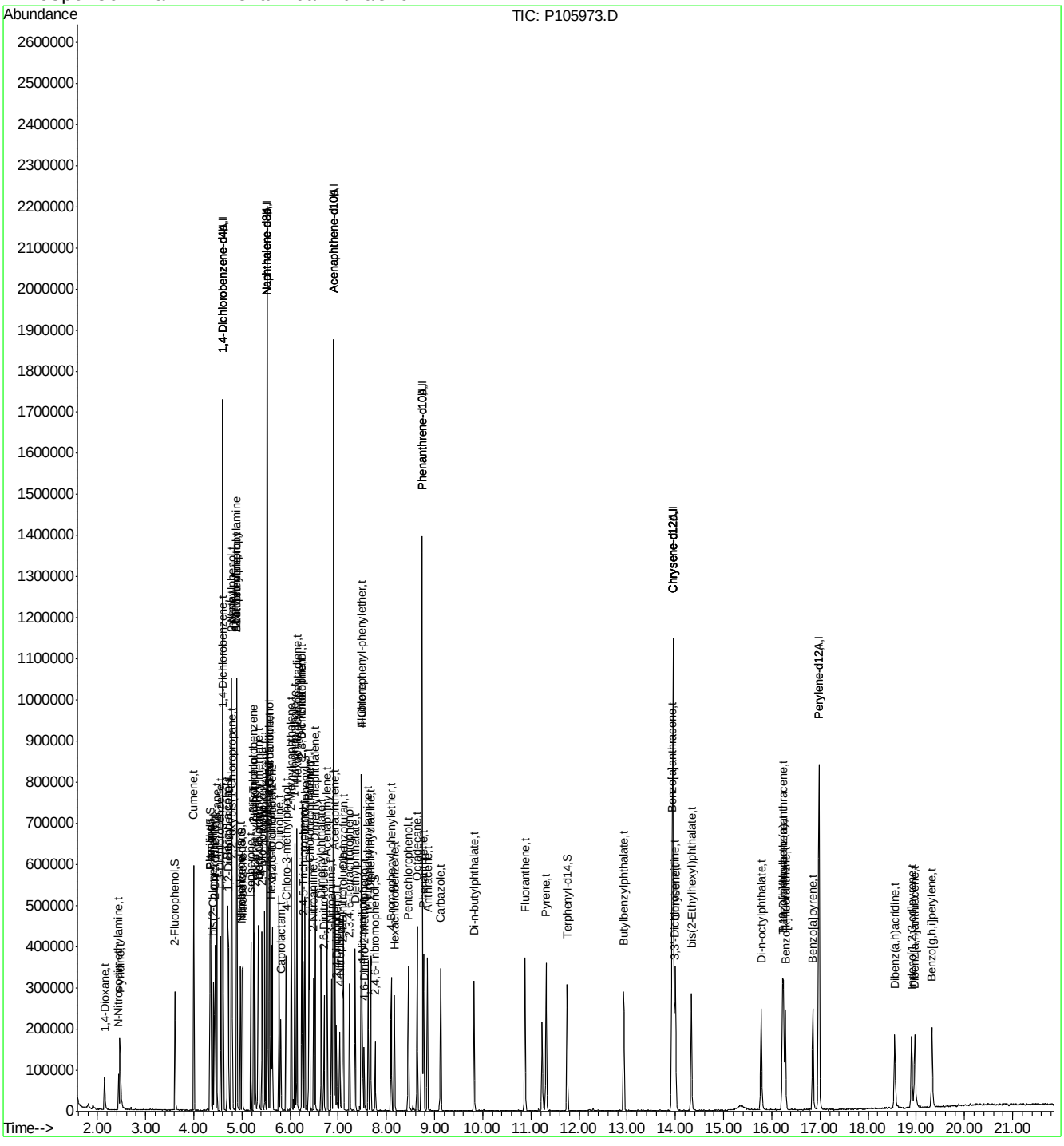
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105973.D Vial: 7
Acq On : 11 Jul 2016 12:57 pm Operator: brittanp
Sample : ic4681-10 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:24 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:23:24 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105974.D Vial: 8
Acq On : 11 Jul 2016 1:29 pm Operator: brittanp
Sample : ic4681-5 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:25:24 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:25:12 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	179313	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	571359	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	333358	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	598486	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	604447	40.00	ppm	-0.01
91) Perylene-d12	16.98	264	469835	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	179313	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	571359	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	333358	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	598486	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	604447	40.00	ppm	-0.01
154) Perylene-d12A	16.98	264	469835	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	179313	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	598486	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	604447	40.00	ppm	-0.01
164) Naphthalene-d8b	5.52	136	571359	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	333358	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	571359	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	179313	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	604399	40.00	ppm	-0.01
177) Chrysene-d12d	13.95	240	604399	40.00	ppm	-0.01
179) Naphthalene-d8d	5.52	136	571359	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.61	112	30858	5.04	ppm	0.00
Spiked Amount 50.000			Recovery = 10.08%			
8) Phenol-d5	4.34	99	45698	5.45	ppm	0.00
Spiked Amount 50.000			Recovery = 10.90%			
25) Nitrobenzene-d5	5.00	82	40320	5.84	ppm	0.00
Spiked Amount 50.000			Recovery = 11.68%			
51) 2-Fluorobiphenyl	6.31	172	60279	5.95	ppm	0.00
Spiked Amount 50.000			Recovery = 11.90%			
73) 2,4,6-Tribromophenol	7.77	330	6637	4.81	ppm	0.00
Spiked Amount 50.000			Recovery = 9.62%			
85) Terphenyl-d14	11.75	244	61190	5.32	ppm	0.00
Spiked Amount 50.000			Recovery = 10.64%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.15	88	17743	5.56	ppm	96
3) Pyridine	2.47	79	44397	5.53	ppm	93
4) N-Nitrosodimethylamine	2.44	42	14857	5.00	ppm	97
6) Indene	4.79	116	59344	6.00	ppm	98
7) Cumene	4.00	105	88437	5.95	ppm	92
9) Phenol	4.34	94	55600	6.05	ppm	80
10) Aniline	4.35	93	66415	6.37	ppm	98
11) bis(2-Chloroethyl)ether	4.41	93	37023	5.95	ppm	98
12) 2-Chlorophenol	4.44	128	33661	5.71	ppm	95
13) Decane	4.48	43	38754	6.78	ppm	93
14) 1,3-Dichlorobenzene	4.56	146	32488	5.43	ppm	95
15) 1,4-Dichlorobenzene	4.61	146	31244	5.33	ppm	93

(#) = qualifier out of range (m) = manual integration
P105974.D MP4681.M Mon Jul 11 14:27:24 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105974.D Vial: 8
Acq On : 11 Jul 2016 1:29 pm Operator: brittanp
Sample : ic4681-5 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:25:24 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:25:12 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.70	108	22511	5.46	ppm		94
17)	1,2-Dichlorobenzene	4.72	146	31903	5.94	ppm		90
18)	Acetophenone	4.89	105	46579	6.01	ppm	#	69
19)	2-Methylphenol	4.79	108	29729	5.67	ppm		92
20)	2,2'-oxybis(1-Chloropropan	4.80	121	10470	5.74	ppm		89
21)	3&4-Methylphenol	4.89	108	31557	5.74	ppm		87
22)	n-Nitroso-di-n-propylamine	4.89	70	27541	6.74	ppm		97
23)	Hexachloroethane	4.97	201	11975	5.16	ppm		88
26)	Nitrobenzene	5.01	77	40687	5.94	ppm		94
27)	Quinoline	5.77	129	63022	5.77	ppm		96
28)	Isophorone	5.18	82	70052	5.95	ppm		92
29)	2-Nitrophenol	5.24	139	16011	5.31	ppm		73
30)	2,4-Dimethylphenol	5.27	107	34895	5.88	ppm		98
31)	Benzoic acid	5.32	105	21562	4.36	ppm		97
32)	bis(2-Chloroethoxy)methane	5.34	93	41898	6.18	ppm		93
33)	2,4-Dichlorophenol	5.42	162	23898	5.23	ppm		94
34)	2,6-Dichlorophenol	5.58	162	24113	5.45	ppm		98
35)	1,3,5-Trichlorobenzene	5.25	180	29316	5.72	ppm		96
36)	1,2,4-Trichlorobenzene	5.47	180	27085	5.63	ppm		98
37)	1,2,3-Trichlorobenzene	5.63	180	25721	5.47	ppm		98
38)	Naphthalene	5.53	128	83842	6.16	ppm		95
39)	4-Chloroaniline	5.57	127	40308	5.97	ppm		97
40)	2,3-Dichloroaniline	6.24	161	29060	5.38	ppm		91
41)	Caprolactam	5.80	55	20445	5.69	ppm		98
42)	Hexachlorobutadiene	5.61	225	16065	5.13	ppm		95
43)	4-Chloro-3-methylphenol	5.91	107	28620	5.47	ppm		94
44)	2-Methylnaphthalene	6.02	141	48166	5.68	ppm		98
45)	1-Methylnaphthalene	6.10	142	56848	5.87	ppm		95
46)	Dimethylnaphthalene	6.52	156	49770	5.68	ppm		96
48)	Hexachlorocyclopentadiene	6.14	237	30600	8.71	ppm		99
49)	2,4,6-Trichlorophenol	6.24	196	19433	5.50	ppm		94
50)	2,4,5-Trichlorophenol	6.27	196	20121	5.46	ppm		92
52)	2-Chloronaphthalene	6.40	162	50460	5.96	ppm		94
53)	Biphenyl	6.39	154	70450	5.94	ppm		96
54)	2-Nitroaniline	6.49	65	24797	5.67	ppm		85
55)	Dimethylphthalate	6.64	163	55930	5.65	ppm		97
56)	Acenaphthylene	6.77	152	88491	6.08	ppm		96
57)	2,6-Dinitrotoluene	6.70	165	11174	4.85	ppm		97
58)	3-Nitroaniline	6.86	138	17439	5.54	ppm		99
59)	Acenaphthene	6.93	153	49687	5.64	ppm		95
60)	2,4-Dinitrophenol	6.96	184	8118	5.49	ppm		89
61)	4-Nitrophenol	7.03	109	10711	4.98	ppm		95
62)	Dibenzofuran	7.10	168	82301	5.96	ppm		95
63)	2,4-Dinitrotoluene	7.09	165	16478	5.02	ppm		92
64)	2,3,4,6-Tetrachlorophenol	7.23	232	14922	4.74	ppm		95
65)	Diethylphthalate	7.35	149	64683	5.71	ppm		97
66)	Fluorene	7.48	166	64223	5.82	ppm		96
67)	4-Chlorophenyl-phenylether	7.48	204	30347	5.42	ppm		98
68)	4-Nitroaniline	7.50	138	16749	5.37	ppm		91

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105974.D Vial: 8
Acq On : 11 Jul 2016 1:29 pm Operator: brittanp
Sample : ic4681-5 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:25:24 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:25:12 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.54	198	7717	3.76	ppm	96
71)	n-Nitrosodiphenylamine	7.62	169	41819	5.51	ppm	97
72)	1,2-Diphenylhydrazine	7.67	77	81769	6.23	ppm	94
74)	4-Bromophenyl-phenylether	8.10	248	17799	5.33	ppm	88
75)	Hexachlorobenzene	8.17	284	18781	5.72	ppm	96
76)	Pentachlorophenol	8.46	266	15908	7.54	ppm	95
77)	Phenanthrene	8.77	178	80344	5.74	ppm	95
78)	Anthracene	8.85	178	81015	5.58	ppm	98
79)	Carbazole	9.12	167	84749	5.54	ppm	95
80)	Di-n-butylphthalate	9.82	149	104045	5.39	ppm	100
81)	Fluoranthene	10.88	202	107918	5.55	ppm	96
82)	Octadecane	8.64	57	56667	6.12	ppm	92
84)	Pyrene	11.31	202	113300	5.92	ppm	99
86)	Butylbenzylphthalate	12.93	149	46982	5.19	ppm	92
87)	Benzo[a]anthracene	13.93	228	89919	5.33	ppm	99
88)	3,3'-Dichlorobenzidine	13.98	252	28137	4.75	ppm	98
89)	Chrysene	14.00	228	82601	5.54	ppm	96
90)	bis(2-Ethylhexyl)phthalate	14.33	149	57532	5.38	ppm	99
92)	Di-n-octylphthalate	15.78	149	97454	4.87	ppm	99
93)	Benzo[b]fluoranthene	16.22	252	85885	5.01	ppm	96
94)	Benzo[k]fluoranthene	16.28	252	79285	5.69	ppm	95
95)	Benzo[a]pyrene	16.85	252	74205	5.06	ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.90	276	55601	5.00	ppm	91
97)	Dibenz(a,h)acridine	18.55	279	53978	4.78	ppm	92
98)	Dibenz[a,h]anthracene	18.97	278	57281	5.58	ppm	98
99)	7,12-Dimethylbenz(a)anthra	16.24	256	38533	5.08	ppm	96
100)	Benzo[g,h,i]perylene	19.32	276	62145	5.39	ppm	91

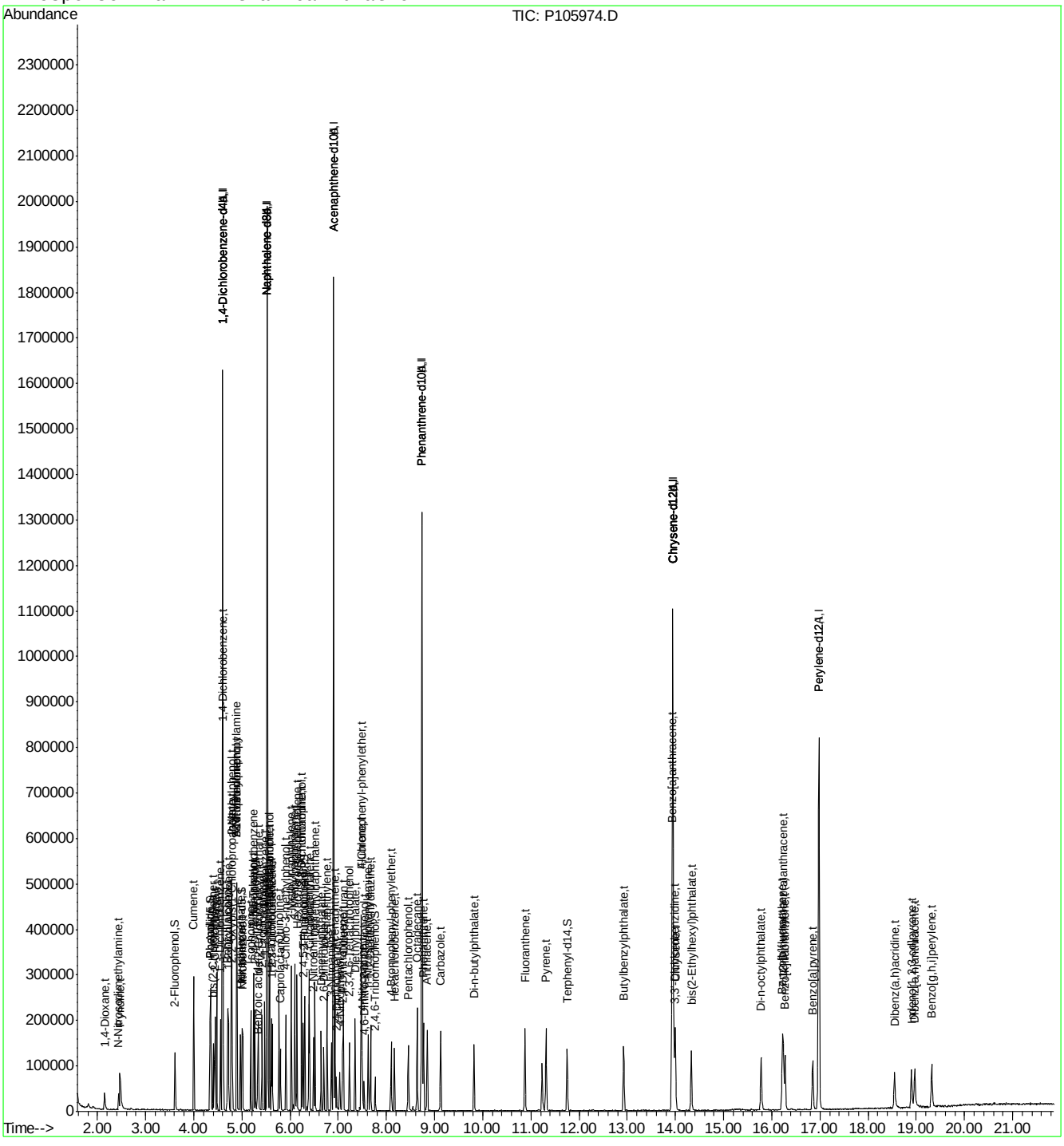
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105974.D Vial: 8
Acq On : 11 Jul 2016 1:29 pm Operator: brittanp
Sample : ic4681-5 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:27 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:25:12 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105978.D Vial: 2
Acq On : 11 Jul 2016 3:49 pm Operator: brittanp
Sample : ic4682-100 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:21:40 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	225846	40.00 ppm	0.00
24) Naphthalene-d8	5.52	136	734340	40.00 ppm	0.00
47) Acenaphthene-d10	6.90	164	427176	40.00 ppm	0.00
69) Phenanthrene-d10	8.74	188	732633	40.00 ppm	0.00
83) Chrysene-d12	13.95	240	682033	40.00 ppm	0.00
91) Perylene-d12	16.98	264	538918	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	225846	40.00 ppm	0.00
111) Naphthalene-d8A	5.52	136	734340	40.00 ppm	0.00
120) Acenaphthene-d10A	6.90	164	427176	40.00 ppm	0.00
131) Phenanthrene-d10A	8.74	188	732633	40.00 ppm	0.00
146) Chrysene-d12A	13.95	240	682033	40.00 ppm	0.00
154) Perylene-d12A	16.98	264	538918	40.00 ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	225846	40.00 ppm	0.00
160) Phenanthrene-d10b	8.74	188	732633	40.00 ppm	0.00
162) Chrysene-d12b	13.95	240	682033	40.00 ppm	0.00
164) Naphthalene-d8b	5.52	136	734340	40.00 ppm	0.00
166) Acenaphthene-d10b	6.90	164	427176	40.00 ppm	0.00
168) Naphthalene-d8c	5.52	136	734340	40.00 ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	225846	40.00 ppm	-0.01
175) Chrysene-d12c	13.95	240	682033	40.00 ppm	0.00
177) Chrysene-d12d	13.95	240	682033	40.00 ppm	0.00
179) Naphthalene-d8d	5.52	136	734340	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
159) Benzaldehyde	4.28	105	354431	61.00 ppm	84
161) Atrazine	8.36	200	337123	94.15 ppm	86
163) Benzidine	11.24	184	542374	66.33 ppm	100
165) Hydroquinone	5.82	110	661905	86.45 ppm	68
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	586407	89.20 ppm	96

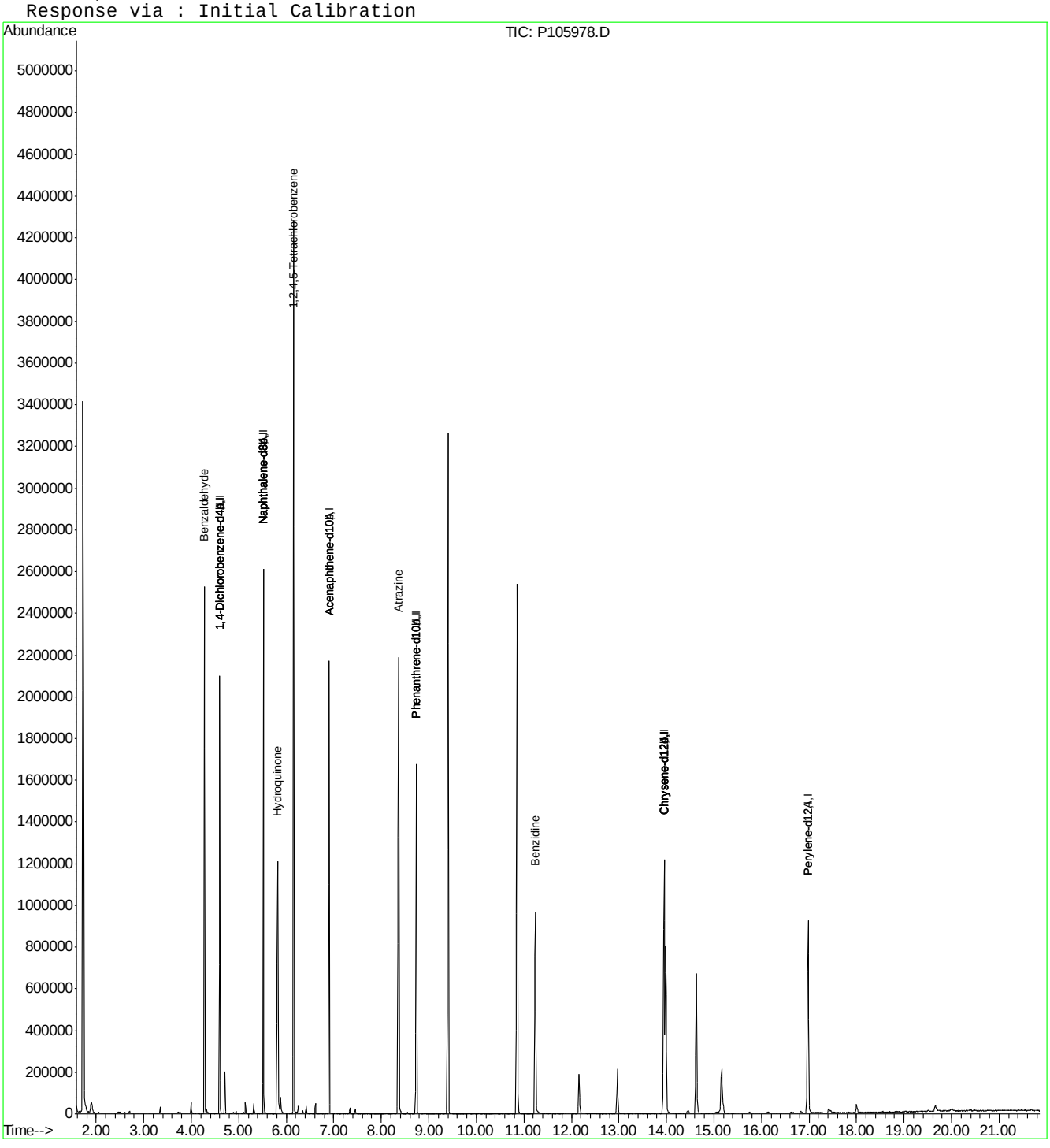
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105978.D Vial: 2
Acq On : 11 Jul 2016 3:49 pm Operator: brittanp
Sample : ic4682-100 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:22 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105979.D Vial: 3
Acq On : 11 Jul 2016 4:22 pm Operator: brittanp
Sample : ic4682-80 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:22:19 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	209417	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	686573	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	403327	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	705174	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	679064	40.00	ppm	-0.01
91) Perylene-d12	16.98	264	544024	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	209417	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	686573	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	403327	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	705174	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	679064	40.00	ppm	-0.01
154) Perylene-d12A	16.98	264	544024	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	209417	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	705174	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	679064	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	686573	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	403327	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	686573	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	209417	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	679064	40.00	ppm	-0.01
177) Chrysene-d12d	13.95	240	679064	40.00	ppm	-0.01
179) Naphthalene-d8d	5.52	136	686573	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
159) Benzaldehyde	4.28	105	295486	54.84	ppm	85
161) Atrazine	8.36	200	261778	75.96	ppm	84
163) Benzidine	11.24	184	479322	58.88	ppm	100
165) Hydroquinone	5.82	110	493394	68.92	ppm	66
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	446876	71.99	ppm	97

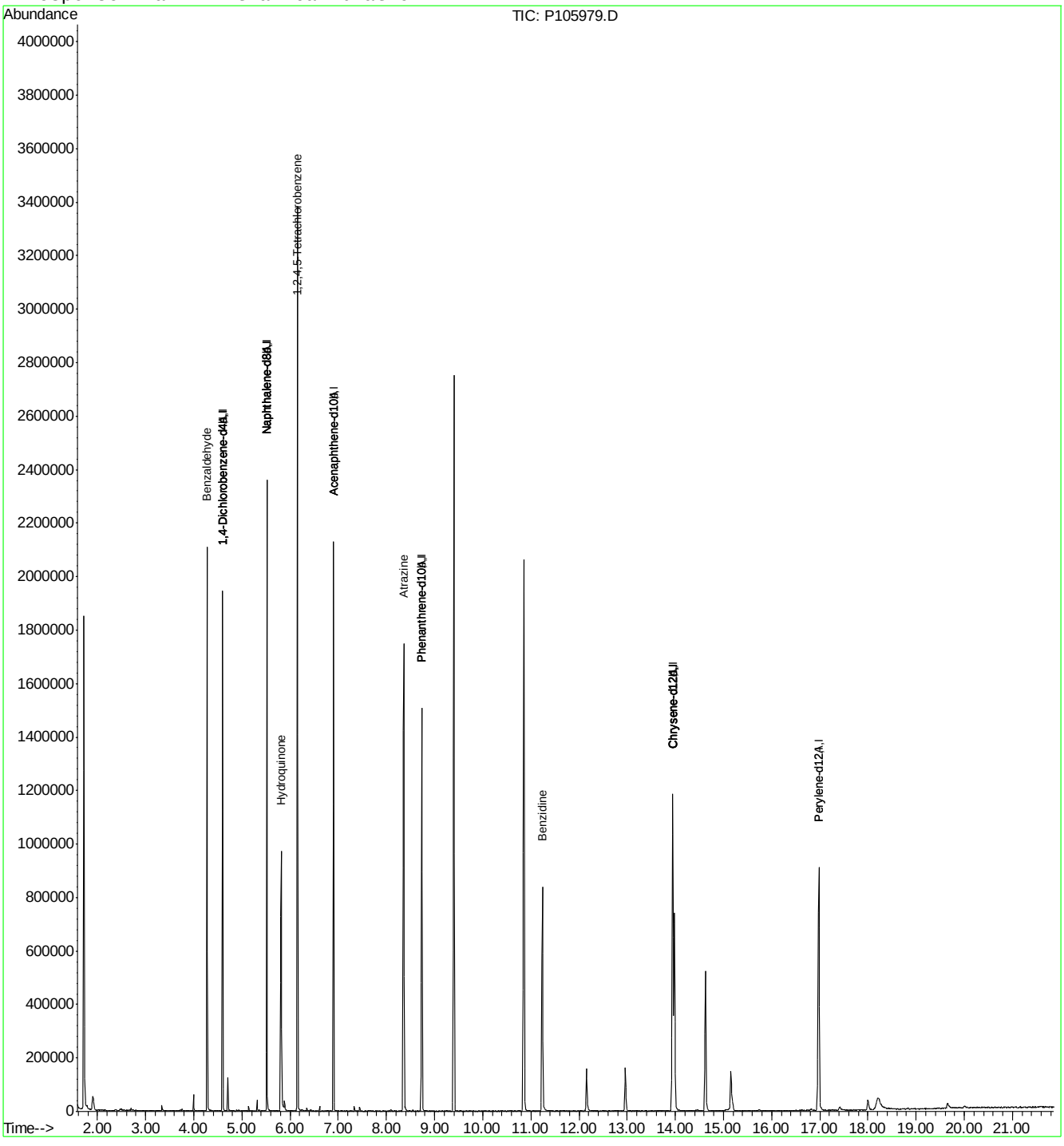
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105979.D Vial: 3
Acq On : 11 Jul 2016 4:22 pm Operator: brittanp
Sample : ic4682-80 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:22 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105980.D Vial: 4
Acq On : 11 Jul 2016 4:51 pm Operator: brittanp
Sample : icc4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:14:58 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:14:40 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	182354	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	616979	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	360349	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	667685	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	643034	40.00	ppm	-0.01
91) Perylene-d12	16.98	264	527742	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	182354	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	616979	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	360349	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	667685	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	643034	40.00	ppm	-0.01
154) Perylene-d12A	16.98	264	527742	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	182354	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	667685	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	643034	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	616979	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	360349	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	616979	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	182354	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	643034	40.00	ppm	-0.01
177) Chrysene-d12d	13.95	240	643034	40.00	ppm	-0.01
179) Naphthalene-d8d	5.52	136	616979	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
159) Benzaldehyde	4.28	105	234576	50.00	ppm	85
161) Atrazine	8.35	200	163159	50.00	ppm	76
163) Benzidine	11.23	184	385447	50.00	ppm	99
165) Hydroquinone	5.81	110	321655	50.00	ppm	71
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	277295	50.00	ppm	98

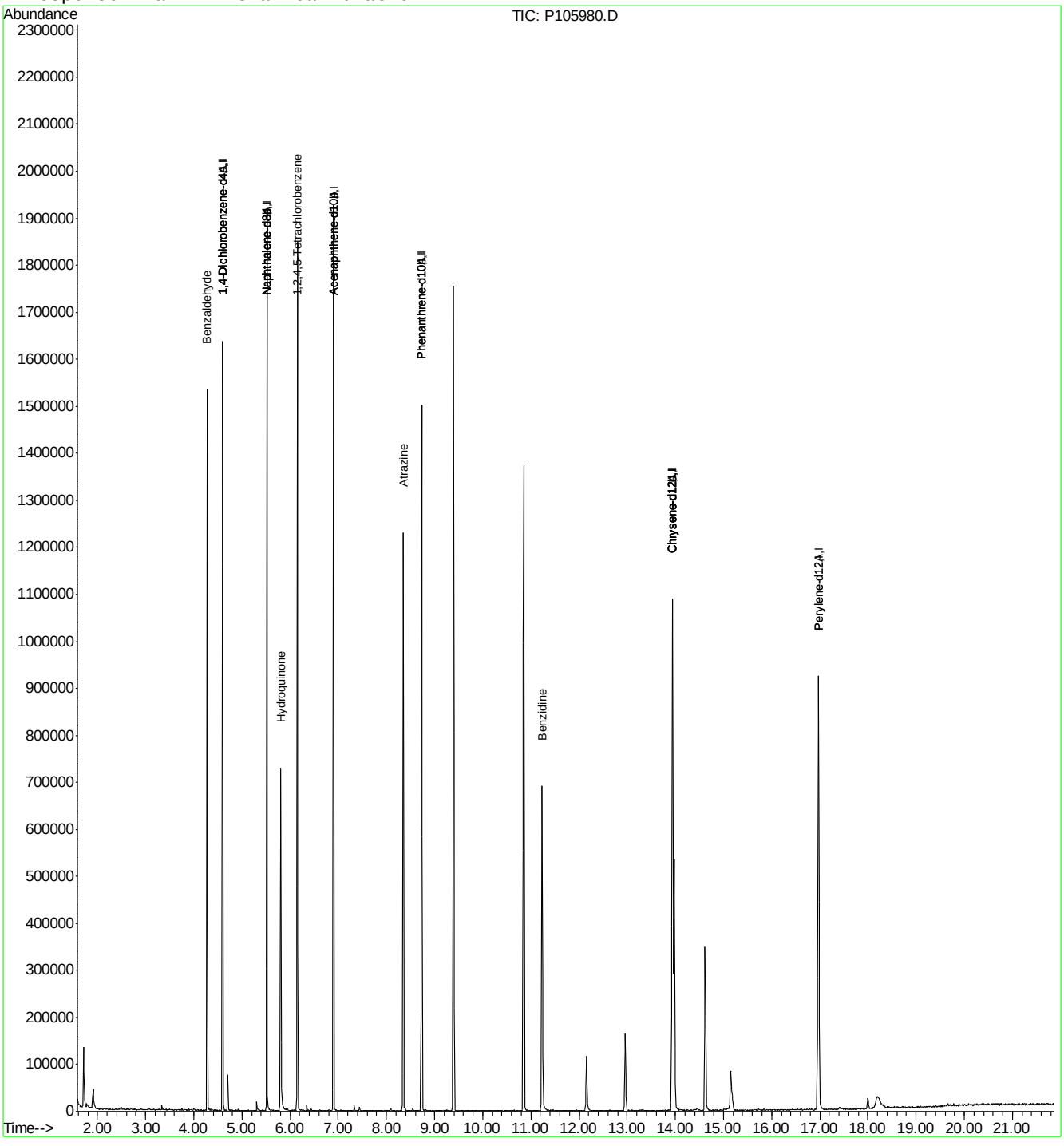
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105980.D Vial: 4
Acq On : 11 Jul 2016 4:51 pm Operator: brittanp
Sample : icc4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:15 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:14:40 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105981.D Vial: 5
Acq On : 11 Jul 2016 5:20 pm Operator: brittanp
Sample : ic4682-25 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:15:41 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	214359	40.00 ppm	0.00
24) Naphthalene-d8	5.52	136	693945	40.00 ppm	0.00
47) Acenaphthene-d10	6.90	164	414579	40.00 ppm	0.00
69) Phenanthrene-d10	8.73	188	741521	40.00 ppm	0.00
83) Chrysene-d12	13.94	240	719192	40.00 ppm	-0.02
91) Perylene-d12	16.98	264	591119	40.00 ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	214359	40.00 ppm	0.00
111) Naphthalene-d8A	5.52	136	693945	40.00 ppm	0.00
120) Acenaphthene-d10A	6.90	164	414579	40.00 ppm	0.00
131) Phenanthrene-d10A	8.73	188	741521	40.00 ppm	0.00
146) Chrysene-d12A	13.94	240	719192	40.00 ppm	-0.02
154) Perylene-d12A	16.98	264	591119	40.00 ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	214359	40.00 ppm	0.00
160) Phenanthrene-d10b	8.73	188	741521	40.00 ppm	0.00
162) Chrysene-d12b	13.94	240	719192	40.00 ppm	0.00
164) Naphthalene-d8b	5.52	136	693945	40.00 ppm	0.00
166) Acenaphthene-d10b	6.90	164	414579	40.00 ppm	0.00
168) Naphthalene-d8c	5.52	136	693945	40.00 ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	214359	40.00 ppm	-0.01
175) Chrysene-d12c	13.94	240	719192	40.00 ppm	-0.02
177) Chrysene-d12d	13.94	240	719192	40.00 ppm	-0.02
179) Naphthalene-d8d	5.52	136	693945	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
159) Benzaldehyde	4.27	105	141072	25.58 ppm #	81
161) Atrazine	8.35	200	88084	24.31 ppm	78
163) Benzidine	11.23	184	273380	31.71 ppm	99
165) Hydroquinone	5.80	110	158719	21.94 ppm	65
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	157429	24.67 ppm	97

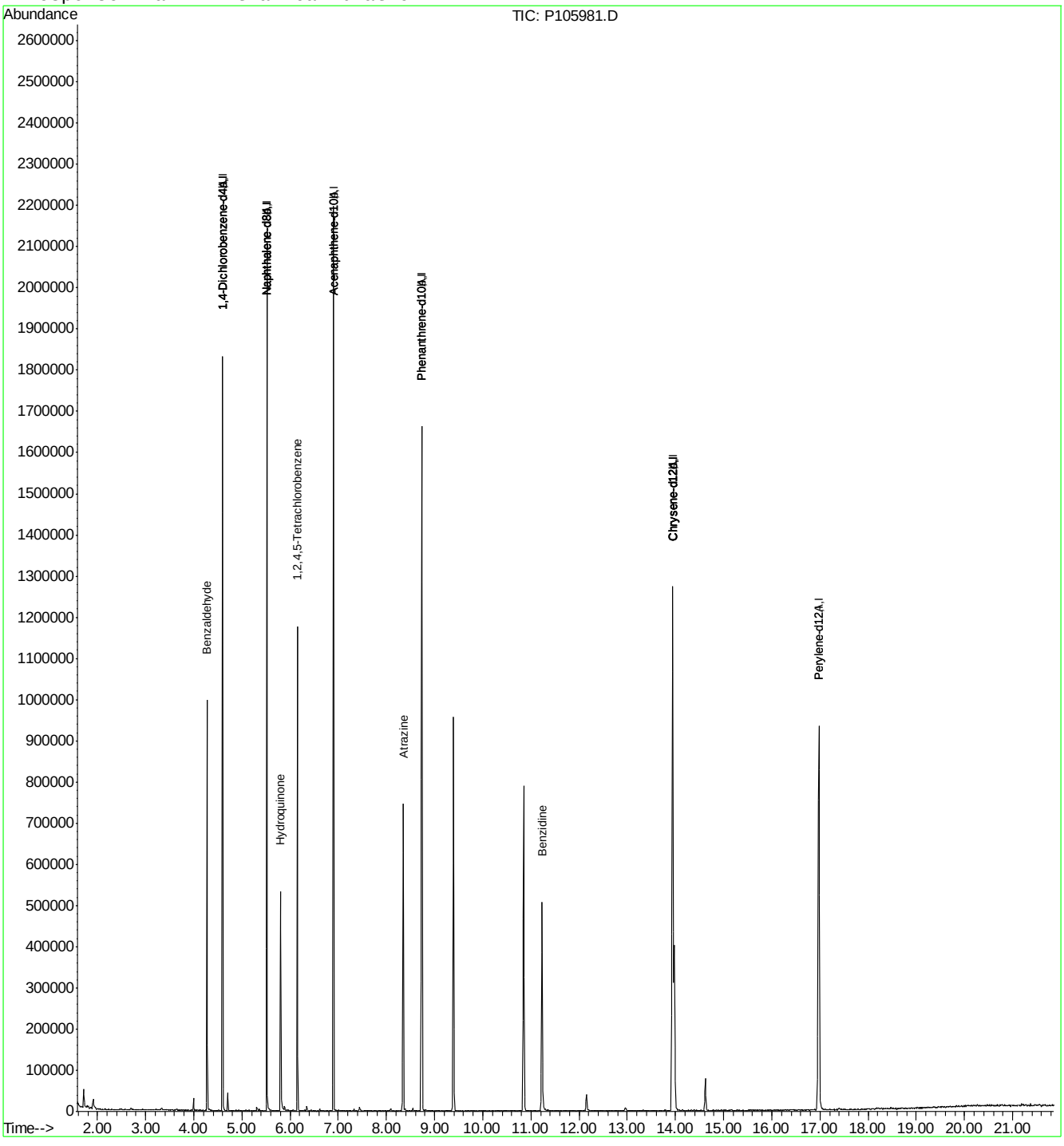
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105981.D Vial: 5
Acq On : 11 Jul 2016 5:20 pm Operator: brittanp
Sample : ic4682-25 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:15 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



P105981.D MP4681.M Tue Jul 12 13:16:14 2016 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105982.D Vial: 6
Acq On : 11 Jul 2016 5:49 pm Operator: brittanp
Sample : ic4682-10 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:16:20 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	224284	40.00 ppm	0.00
24) Naphthalene-d8	5.52	136	728659	40.00 ppm	0.00
47) Acenaphthene-d10	6.90	164	431121	40.00 ppm	0.00
69) Phenanthrene-d10	8.73	188	768763	40.00 ppm	0.00
83) Chrysene-d12	13.95	240	750603	40.00 ppm	-0.01
91) Perylene-d12	16.98	264	613162	40.00 ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	224284	40.00 ppm	0.00
111) Naphthalene-d8A	5.52	136	728659	40.00 ppm	0.00
120) Acenaphthene-d10A	6.90	164	431121	40.00 ppm	0.00
131) Phenanthrene-d10A	8.73	188	768763	40.00 ppm	0.00
146) Chrysene-d12A	13.95	240	750603	40.00 ppm	-0.01
154) Perylene-d12A	16.98	264	613162	40.00 ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	224284	40.00 ppm	0.00
160) Phenanthrene-d10b	8.73	188	768763	40.00 ppm	0.00
162) Chrysene-d12b	13.95	240	750603	40.00 ppm	0.00
164) Naphthalene-d8b	5.52	136	728659	40.00 ppm	0.00
166) Acenaphthene-d10b	6.90	164	431121	40.00 ppm	0.00
168) Naphthalene-d8c	5.52	136	728659	40.00 ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	224284	40.00 ppm	-0.01
175) Chrysene-d12c	13.95	240	750603	40.00 ppm	-0.01
177) Chrysene-d12d	13.95	240	750603	40.00 ppm	-0.01
179) Naphthalene-d8d	5.52	136	728659	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

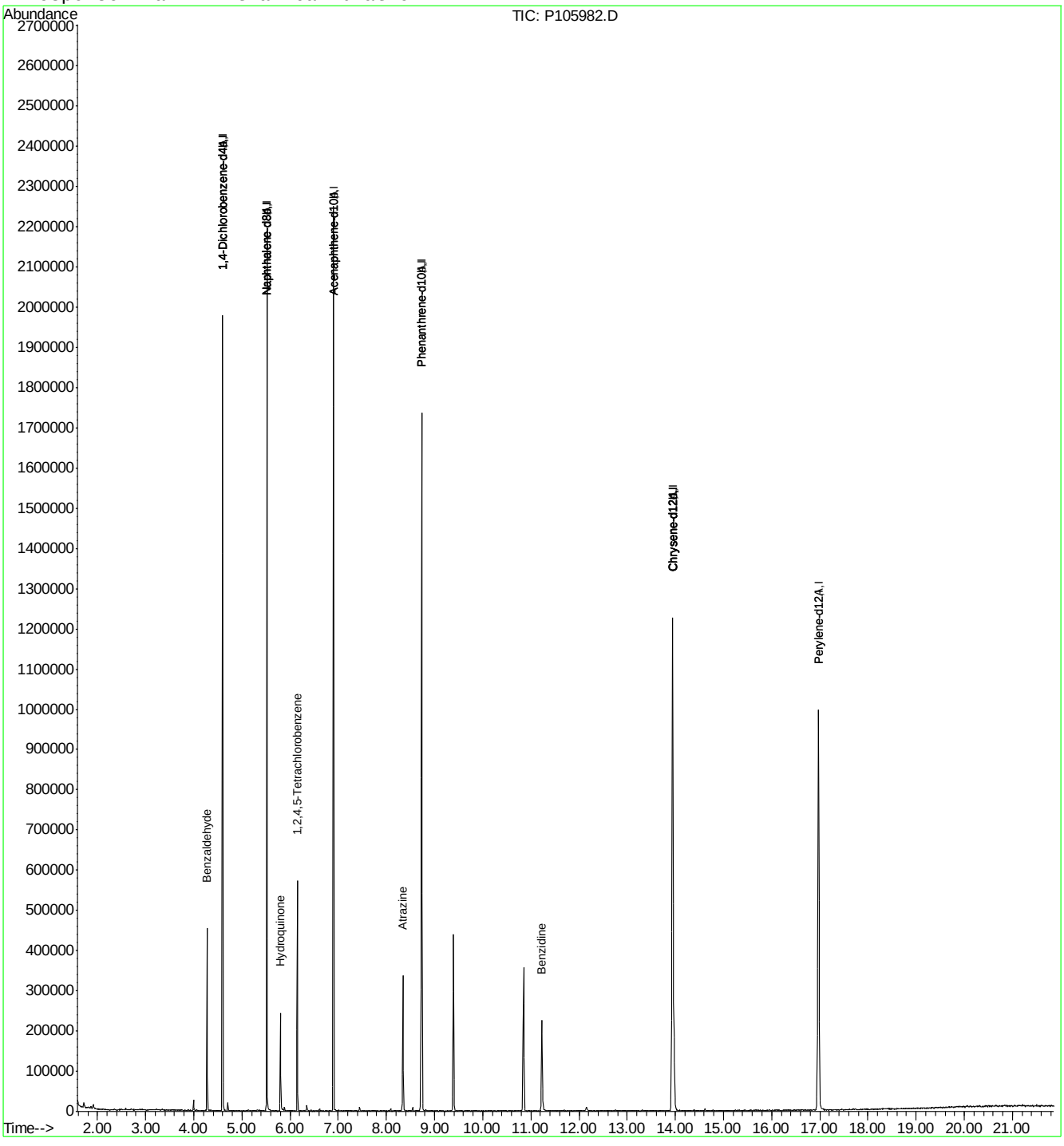
					Qvalue
159) Benzaldehyde	4.27	105	65664	11.38 ppm #	79
161) Atrazine	8.34	200	37378	9.95 ppm	67
163) Benzidine	11.23	184	131364	14.60 ppm	99
165) Hydroquinone	5.80	110	64339	8.47 ppm	76
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	68808	10.37 ppm	93

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105982.D Vial: 6
Acq On : 11 Jul 2016 5:49 pm Operator: brittanp
Sample : ic4682-10 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:16 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105983.D Vial: 7
Acq On : 11 Jul 2016 6:18 pm Operator: brittanp
Sample : ic4682-5 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:17:00 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	219612	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	715469	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	441496	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	780970	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	763491	40.00	ppm	-0.02
91) Perylene-d12	16.98	264	623020	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	219612	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	715469	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	441496	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	780970	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	763491	40.00	ppm	-0.02
154) Perylene-d12A	16.98	264	623020	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	219612	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	780970	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	763491	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	715469	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	441496	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	715469	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	219612	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	763491	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	763491	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	715469	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
159) Benzaldehyde	4.27	105	29371	5.20	ppm #	76
161) Atrazine	8.34	200	16901	4.43	ppm	74
163) Benzidine	11.23	184	53682	5.86	ppm	97
165) Hydroquinone	5.80	110	27851	3.73	ppm	79
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	33282	4.90	ppm	98

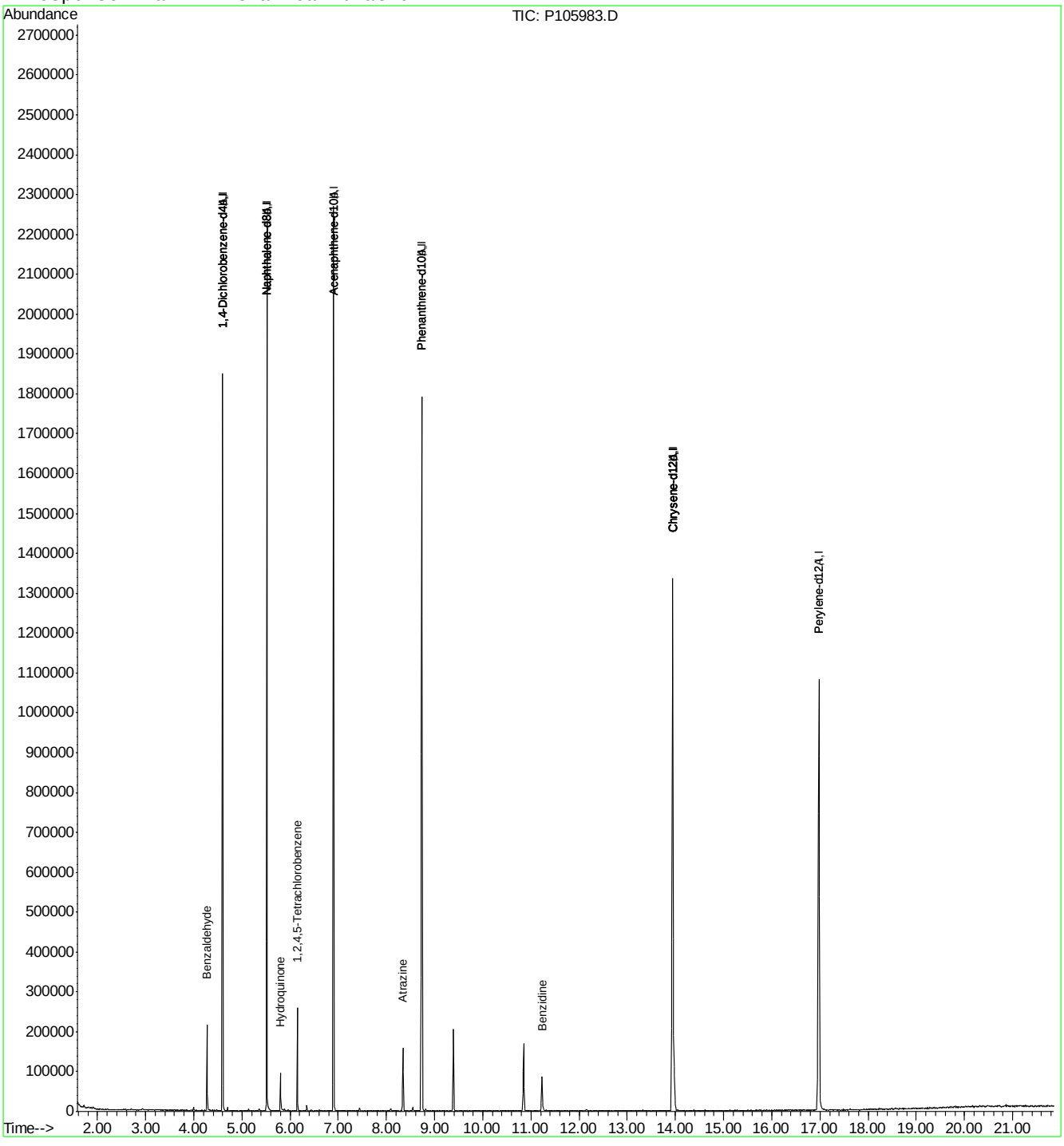
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105983.D Vial: 7
Acq On : 11 Jul 2016 6:18 pm Operator: brittanp
Sample : ic4682-5 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:19 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105984.D Vial: 8
Acq On : 11 Jul 2016 6:47 pm Operator: brittanp
Sample : ic4682-2 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:19:42 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	216513	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	703436	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	414686	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	747041	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	727742	40.00	ppm	-0.02
91) Perylene-d12	16.98	264	580306	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	216513	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	703436	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	414686	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	747041	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	727742	40.00	ppm	-0.02
154) Perylene-d12A	16.98	264	580306	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	216513	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	747041	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	727742	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	703436	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	414686	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	703436	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	216513	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	727742	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	727742	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	703436	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%			

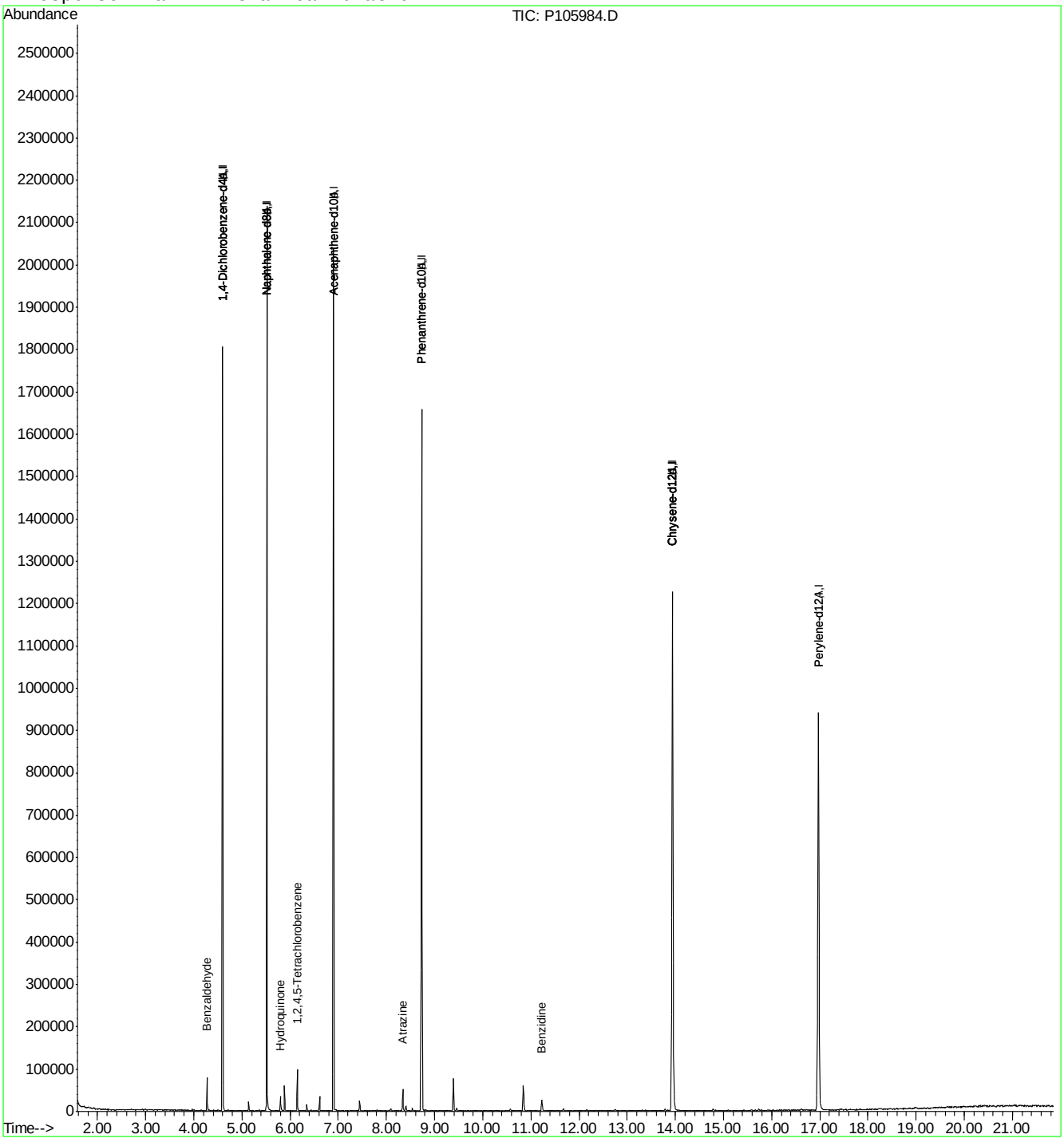
Target Compounds							Qvalue
159) Benzaldehyde	4.28	105	11551	2.07	ppm		83
161) Atrazine	8.34	200	6567	1.80	ppm		83
163) Benzidine	11.23	184	17878	2.05	ppm	#	68
165) Hydroquinone	5.80	110	9742	1.33	ppm		70
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	12348	1.93	ppm		90

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105984.D Vial: 8
Acq On : 11 Jul 2016 6:47 pm Operator: brittanp
Sample : ic4682-2 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:20 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105985.D Vial: 9
Acq On : 11 Jul 2016 7:16 pm Operator: brittanp
Sample : ic4682-1 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:20:44 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	218720	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	716330	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	425756	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	754402	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	737136	40.00	ppm	-0.02
91) Perylene-d12	16.98	264	594952	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	218720	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	716330	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	425756	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	754402	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	737136	40.00	ppm	-0.02
154) Perylene-d12A	16.98	264	594952	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	218720	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	754402	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	737136	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	716330	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	425756	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	716330	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	218720	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	737136	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	737136	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	716330	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
159) Benzaldehyde	4.28	105	5993	1.07	ppm		79
161) Atrazine	8.34	200	2862	0.78	ppm	#	39
163) Benzidine	11.23	184	8855	1.00	ppm	#	68
165) Hydroquinone	5.80	110	4519	0.61	ppm		55
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	6618	1.01	ppm		94

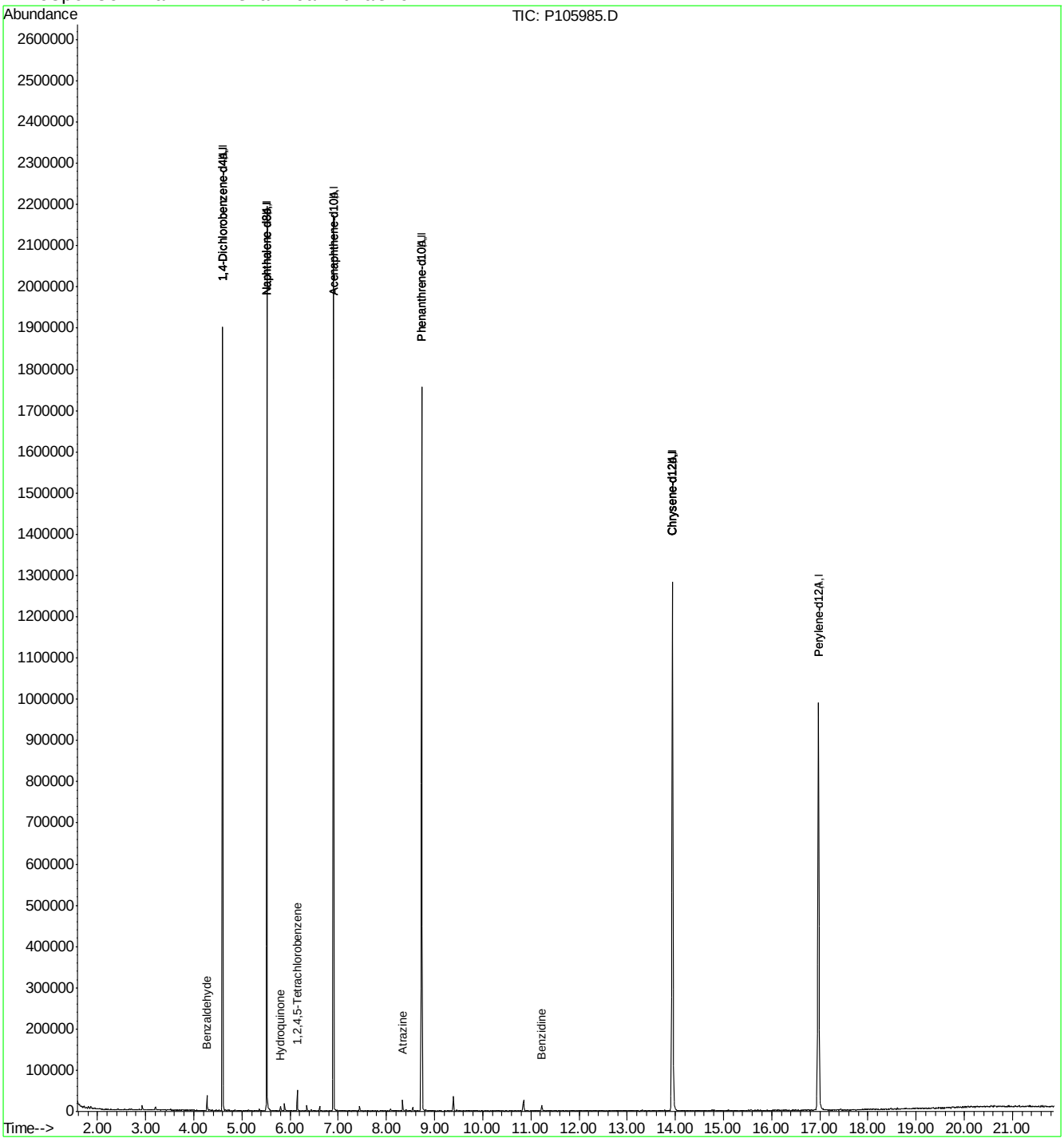
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105985.D Vial: 9
Acq On : 11 Jul 2016 7:16 pm Operator: brittanp
Sample : ic4682-1 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:21 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105986.D Vial: 10
Acq On : 11 Jul 2016 7:46 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:35:41 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	226615	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	675284	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	431603	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	733517	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	680895	40.00	ppm	-0.02
91) Perylene-d12	16.97	264	520803	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4A	4.60	152	226615	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	675284	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	431603	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	733517	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	680895	40.00	ppm	-0.02
154) Perylene-d12A	16.97	264	520803	40.00	ppm	-0.02
158) 1,4-Dichlorobenzene-d4b	4.60	152	226615	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	733517	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	680895	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	675284	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	431603	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	675284	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	226615	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	680895	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	680895	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	675284	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	0d	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
9) Phenol	4.35	94	458868	36.25	ppm	75
12) 2-Chlorophenol	4.44	128	314868	40.40	ppm	99
19) 2-Methylphenol	4.79	108	295778	42.71	ppm	99
21) 3&4-Methylphenol	4.89	108	303082	40.52	ppm	98
29) 2-Nitrophenol	5.24	139	164958	46.39	ppm	79
30) 2,4-Dimethylphenol	5.27	107	316819	43.23	ppm	99
31) Benzoic acid	5.37	105	238805	44.22	ppm	96
33) 2,4-Dichlorophenol	5.42	162	234242	42.48	ppm	100
34) 2,6-Dichlorophenol	5.58	162	230473	42.99	ppm	99
43) 4-Chloro-3-methylphenol	5.91	107	267453	42.78	ppm	100
49) 2,4,6-Trichlorophenol	6.24	196	189370	40.52	ppm	98
50) 2,4,5-Trichlorophenol	6.27	196	179260	36.42	ppm	99

(#) = qualifier out of range (m) = manual integration
P105986.D MP4681.M Tue Jul 12 13:45:57 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105986.D Vial: 10
Acq On : 11 Jul 2016 7:46 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:35:41 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
60)	2,4-Dinitrophenol	6.96	184	67141	37.25	ppm	#	96
61)	4-Nitrophenol	7.03	109	104194	39.85	ppm		95
64)	2,3,4,6-Tetrachlorophenol	7.23	232	151400	38.68	ppm		97
70)	4,6-Dinitro-2-methylphenol	7.54	198	101031	41.87	ppm		97
76)	Pentachlorophenol	8.45	266	101218	43.15	ppm		96

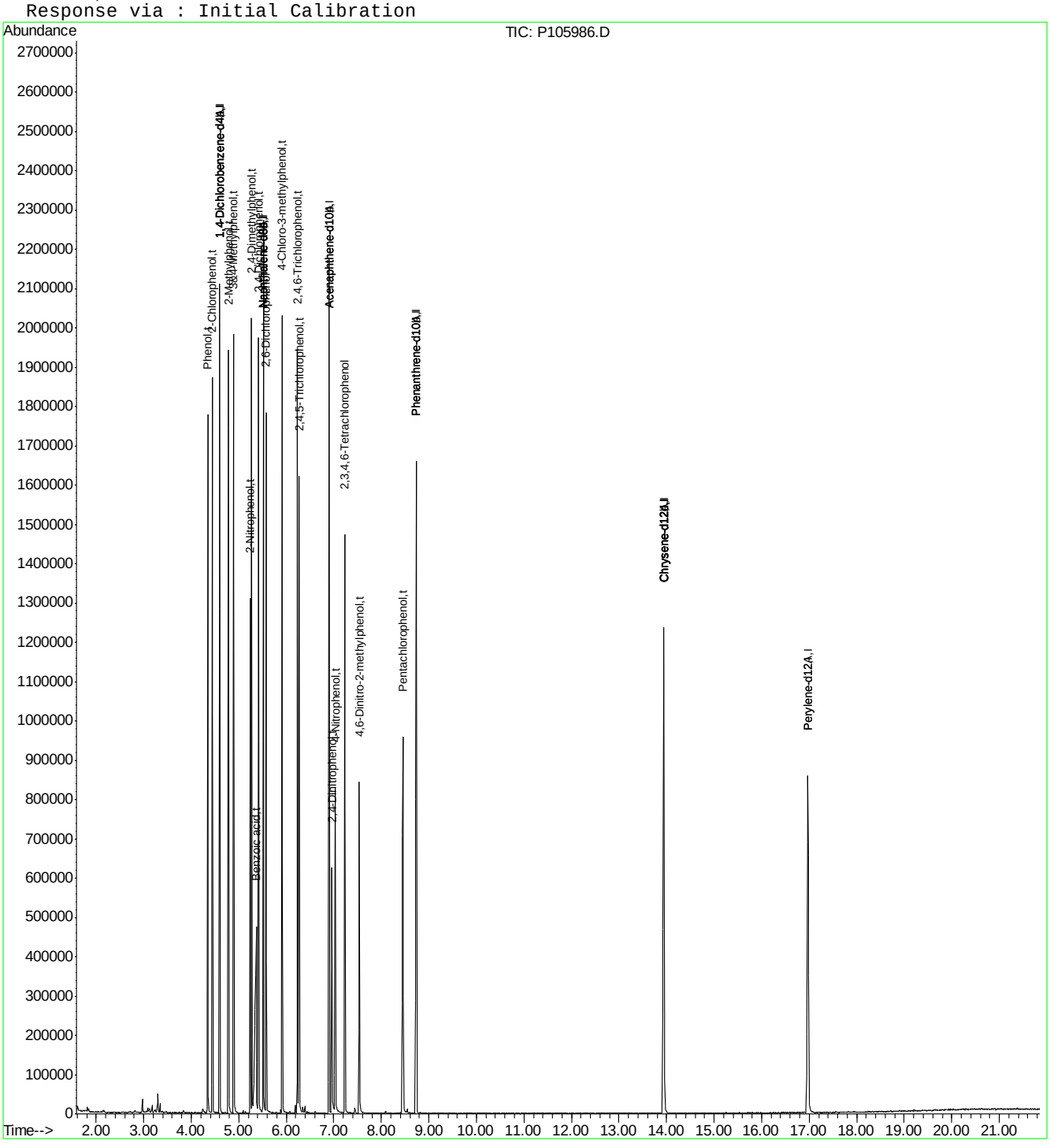
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105986.D Vial: 10
Acq On : 11 Jul 2016 7:46 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:36 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105987.D Vial: 11
Acq On : 11 Jul 2016 8:15 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:37:25 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	188706	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	672002	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	369475	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	713186	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	663589	40.00	ppm	-0.02
91) Perylene-d12	16.97	264	484526	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4A	4.60	152	188706	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	672002	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	369475	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	713186	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	663589	40.00	ppm	-0.02
154) Perylene-d12A	16.97	264	484526	40.00	ppm	-0.02
158) 1,4-Dichlorobenzene-d4b	4.60	152	188706	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	713186	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	663589	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	672002	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	369475	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	672002	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	188706	40.00	ppm	0.00
175) Chrysene-d12c	13.94	240	663589	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	663589	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	672002	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
3) Pyridine	2.57	79	431126	52.18	ppm	94
10) Aniline	4.37	93	581579	47.94	ppm	87
16) Benzyl alcohol	4.70	108	228342	50.29	ppm	99
39) 4-Chloroaniline	5.57	127	364146	43.60	ppm	97
44) 2-Methylnaphthalene	6.02	141	445503	42.76	ppm	97
54) 2-Nitroaniline	6.49	65	229168	45.04	ppm	98
58) 3-Nitroaniline	6.86	138	169723	48.72	ppm	92
62) Dibenzofuran	7.10	168	777188	47.34	ppm	100
68) 4-Nitroaniline	7.50	138	162677	46.70	ppm	98
79) Carbazole	9.13	167	857563	45.33	ppm	99

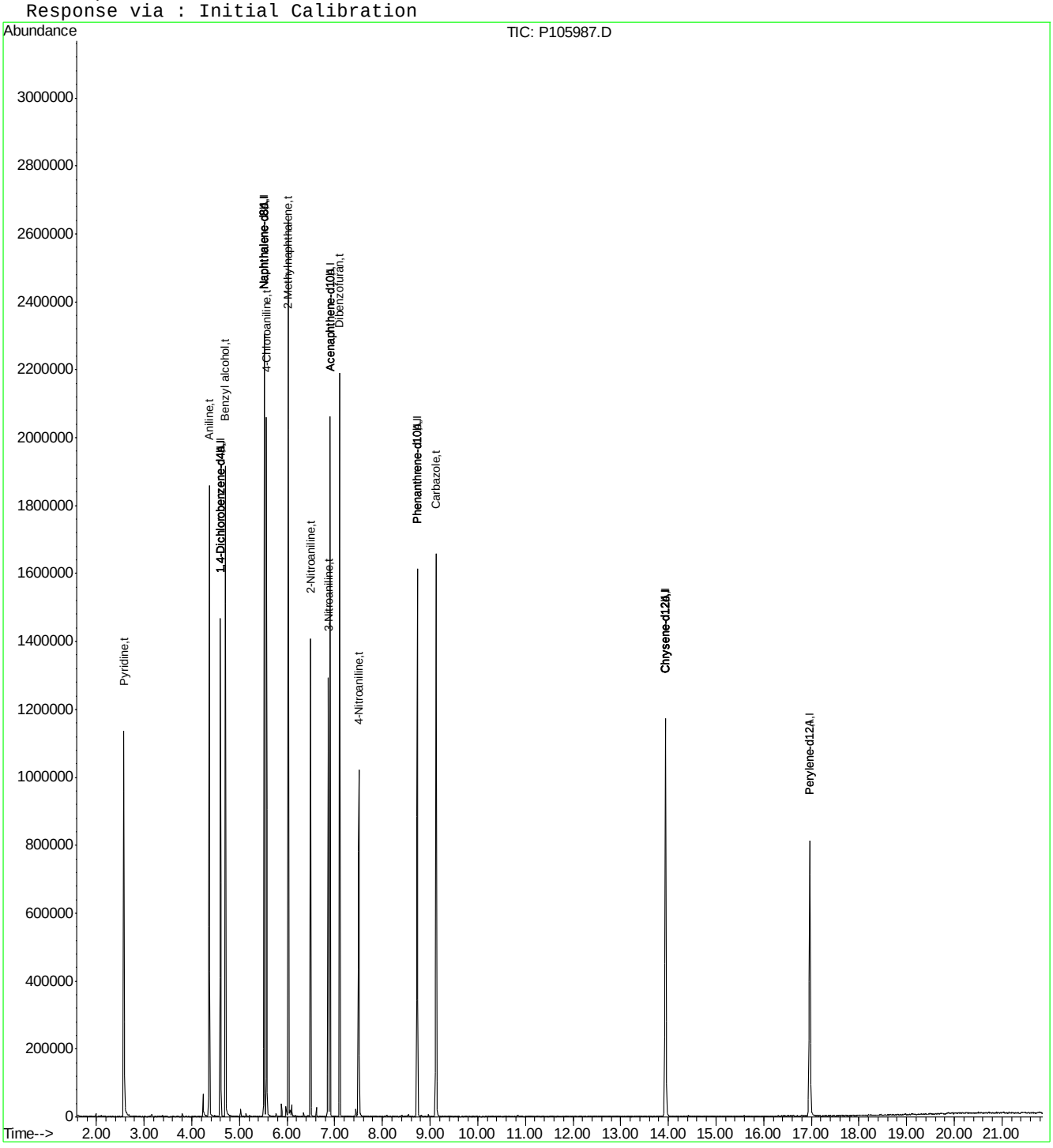
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105987.D Vial: 11
Acq On : 11 Jul 2016 8:15 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:38 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988A.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:39:42 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	213183	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	631560	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	359591	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	630857	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	529496	40.00	ppm	0.00
91) Perylene-d12	16.98	264	358059	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	213183	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	631560	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	359591	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	630857	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	529496	40.00	ppm	0.00
154) Perylene-d12A	16.98	264	358059	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	213183	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	630857	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	529496	40.00	ppm	0.01
164) Naphthalene-d8b	5.52	136	631560	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	359591	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	631560	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	213183	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	529391	40.00	ppm	0.00
177) Chrysene-d12d	13.95	240	529391	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	631560	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	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%			

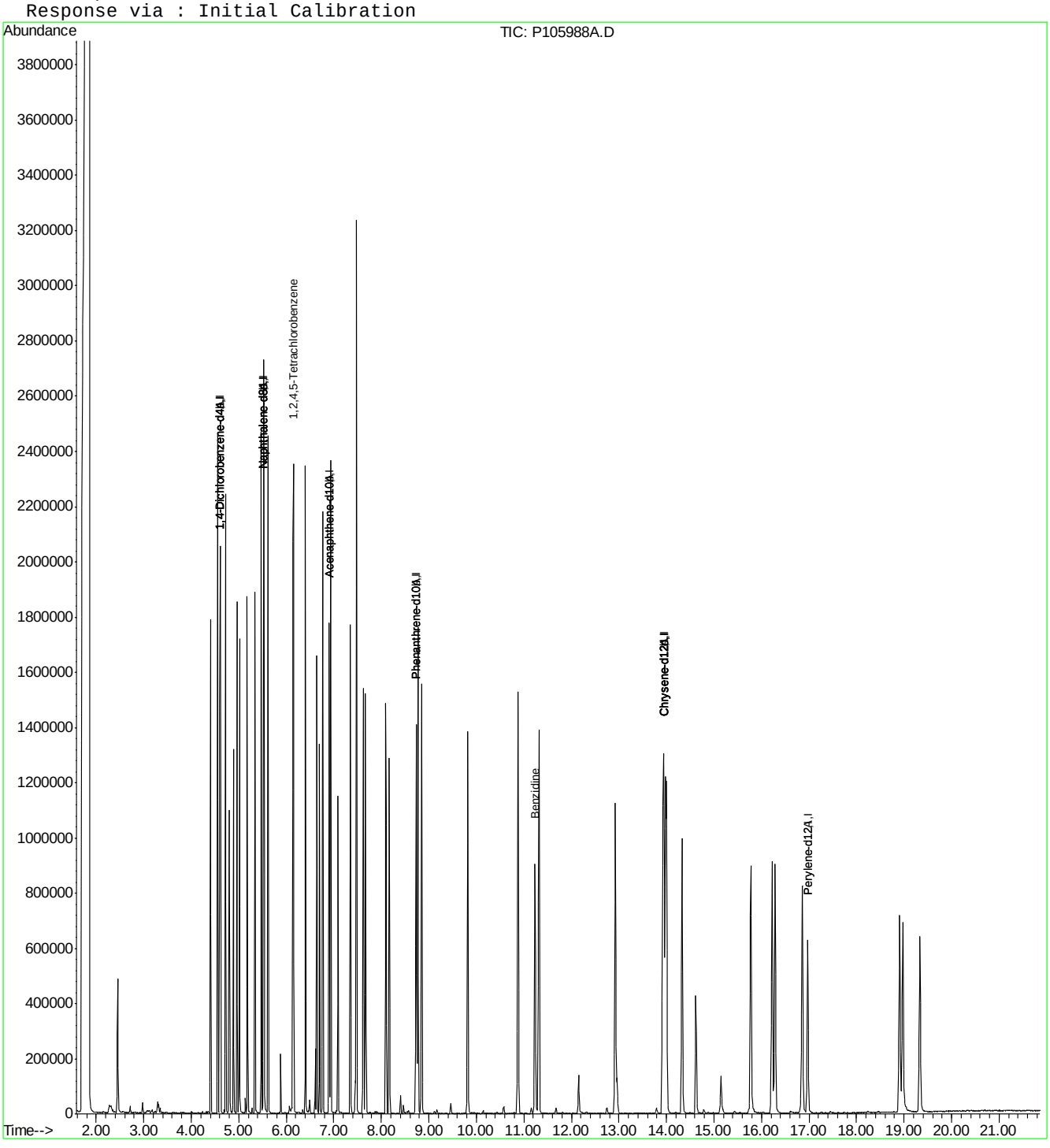
Target Compounds						Qvalue
163) Benzidine	11.23	184	557533	80.22	ppm	99
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	318933	59.31	ppm	95

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988A.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:45 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:39:42 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	213183	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	631560	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	359591	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	630857	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	529496	40.00	ppm	0.00
91) Perylene-d12	16.98	264	358059	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	213183	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	631560	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	359591	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	630857	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	529496	40.00	ppm	0.00
154) Perylene-d12A	16.98	264	358059	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	213183	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	630857	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	529496	40.00	ppm	0.01
164) Naphthalene-d8b	5.52	136	631560	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	359591	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	631560	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	213183	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	529391	40.00	ppm	0.00
177) Chrysene-d12d	13.95	240	529391	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	631560	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	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	2.45	42	147610	42.51	ppm	93
11) bis(2-Chloroethyl)ether	4.41	93	406320	51.80	ppm	98
14) 1,3-Dichlorobenzene	4.56	146	370292	49.49	ppm	96
15) 1,4-Dichlorobenzene	4.61	146	346998	48.65	ppm	97
17) 1,2-Dichlorobenzene	4.72	146	351885	52.31	ppm	97
20) 2,2'-oxybis(1-Chloropropan	4.80	121	112379	49.06	ppm	89
22) n-Nitroso-di-n-propylamine	4.89	70	263065	45.84	ppm	96
23) Hexachloroethane	4.97	201	144399	52.15	ppm	93
26) Nitrobenzene	5.01	77	389536	47.42	ppm	99
28) Isophorone	5.18	82	656010	47.27	ppm	98
32) bis(2-Chloroethoxy)methane	5.34	93	415960	51.64	ppm	98
36) 1,2,4-Trichlorobenzene	5.47	180	297031	53.48	ppm	98

(#) = qualifier out of range (m) = manual integration
P105988.D MP4681.M Tue Jul 12 13:46:21 2016

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:39:42 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Naphthalene	5.53	128	763643	47.06	ppm	98
42)	Hexachlorobutadiene	5.61	225	204443	58.91	ppm	96
48)	Hexachlorocyclopentadiene	6.14	237	178127	50.95	ppm	96
52)	2-Chloronaphthalene	6.40	162	528762	53.24	ppm	98
55)	Dimethylphthalate	6.64	163	528261	46.52	ppm	100
56)	Acenaphthylene	6.77	152	778336	46.59	ppm	99
57)	2,6-Dinitrotoluene	6.70	165	123227	50.85	ppm	95
59)	Acenaphthene	6.93	153	491088	49.38	ppm	95
63)	2,4-Dinitrotoluene	7.09	165	157213	45.31	ppm	98
65)	Diethylphthalate	7.35	149	594511	46.54	ppm	99
66)	Fluorene	7.48	166	562345	45.19	ppm	98
67)	4-Chlorophenyl-phenylether	7.48	204	292957	46.69	ppm	95
71)	n-Nitrosodiphenylamine	7.62	169	373330	45.43	ppm	100
72)	1,2-Diphenylhydrazine	7.67	77	639442	42.77	ppm	99
74)	4-Bromophenyl-phenylether	8.10	248	175452	49.94	ppm	97
75)	Hexachlorobenzene	8.17	284	173414	48.41	ppm	95
77)	Phenanthrene	8.77	178	753216	48.36	ppm	99
78)	Anthracene	8.85	178	727560	45.59	ppm	99
80)	Di-n-butylphthalate	9.82	149	923978	44.89	ppm	99
81)	Fluoranthene	10.88	202	945157	45.02	ppm	100
84)	Pyrene	11.32	202	902190	50.81	ppm	98
86)	Butylbenzylphthalate	12.93	149	425718	54.00	ppm	99
87)	Benzo[a]anthracene	13.93	228	780791	51.23	ppm	97
89)	Chrysene	14.01	228	645151	47.64	ppm	99
90)	bis(2-Ethylhexyl)phthalate	14.33	149	477488	51.03	ppm	99
92)	Di-n-octylphthalate	15.77	149	793190	53.34	ppm	99
93)	Benzo[b]fluoranthene	16.23	252	618354	48.26	ppm	99
94)	Benzo[k]fluoranthene	16.29	252	579109	52.66	ppm	99
95)	Benzo[a]pyrene	16.86	252	593565	53.91	ppm	95
96)	Indeno[1,2,3-cd]pyrene	18.91	276	515645	62.46	ppm	99
98)	Dibenz[a,h]anthracene	18.98	278	448532	56.06	ppm	99
100)	Benzo[g,h,i]perylene	19.34	276	487066	55.35	ppm	98

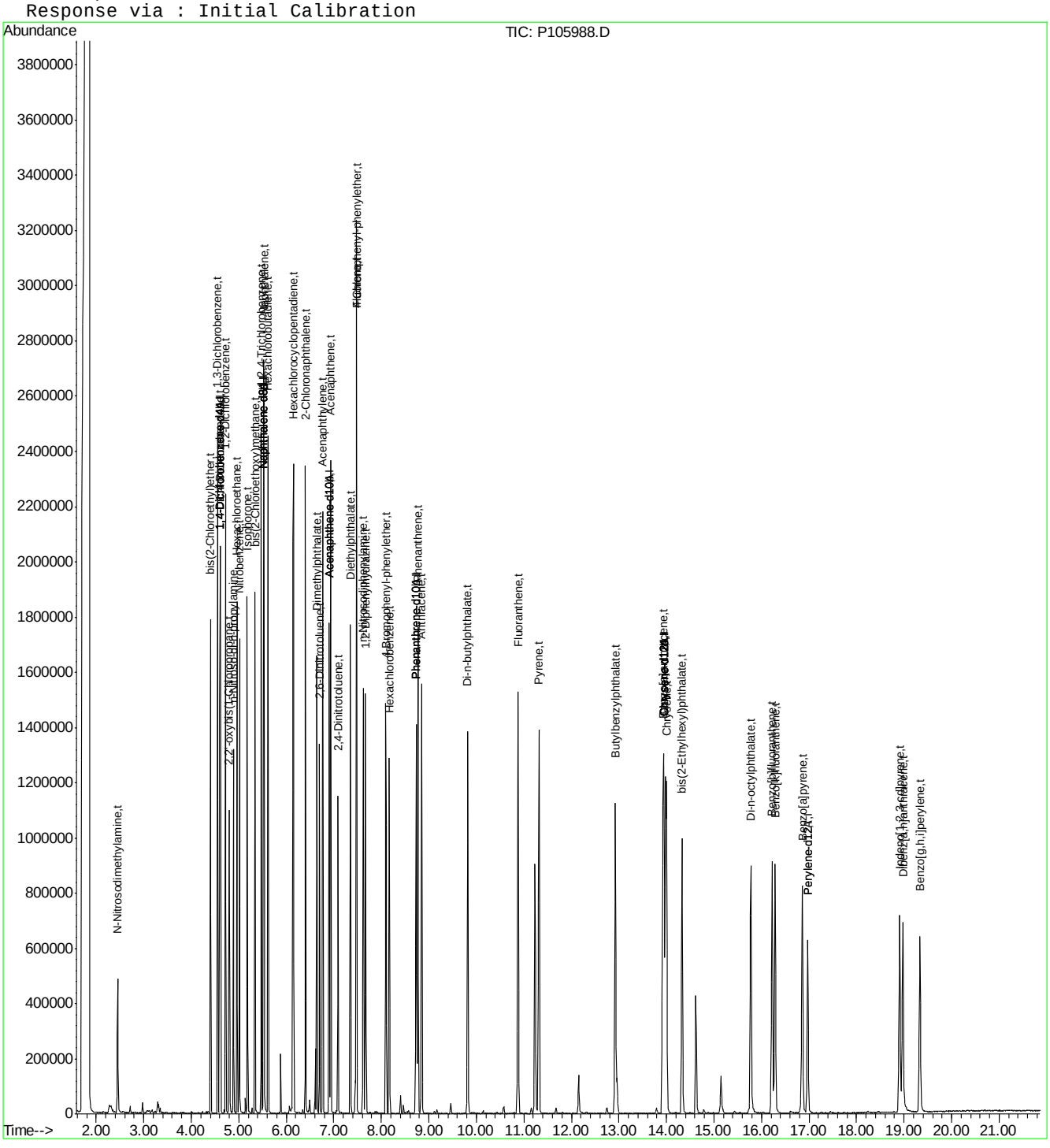
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:46 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105990.D Vial: 14
Acq On : 11 Jul 2016 9:42 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:42:10 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	233017	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	746725	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	416431	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	719432	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	644291	40.00	ppm	-0.02
91) Perylene-d12	16.98	264	498666	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	233017	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	746725	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	416431	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	719432	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	644291	40.00	ppm	-0.02
154) Perylene-d12A	16.98	264	498666	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	233017	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	719432	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	644291	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	746725	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	416431	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	746725	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	233017	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	644291	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	644291	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	746725	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.62	112	390234	49.80	ppm	0.00
Spiked Amount 50.000			Recovery = 99.60%			
8) Phenol-d5	4.34	99	499877	45.23	ppm	0.00
Spiked Amount 50.000			Recovery = 90.46%			
25) Nitrobenzene-d5	5.00	82	461624	49.06	ppm	0.00
Spiked Amount 50.000			Recovery = 98.12%			
51) 2-Fluorobiphenyl	6.31	172	720204	52.96	ppm	0.00
Spiked Amount 50.000			Recovery = 105.92%			
73) 2,4,6-Tribromophenol	7.77	330	88455	55.64	ppm	0.00
Spiked Amount 50.000			Recovery = 111.28%			
85) Terphenyl-d14	11.75	244	700835	56.11	ppm	0.00
Spiked Amount 50.000			Recovery = 112.22%			

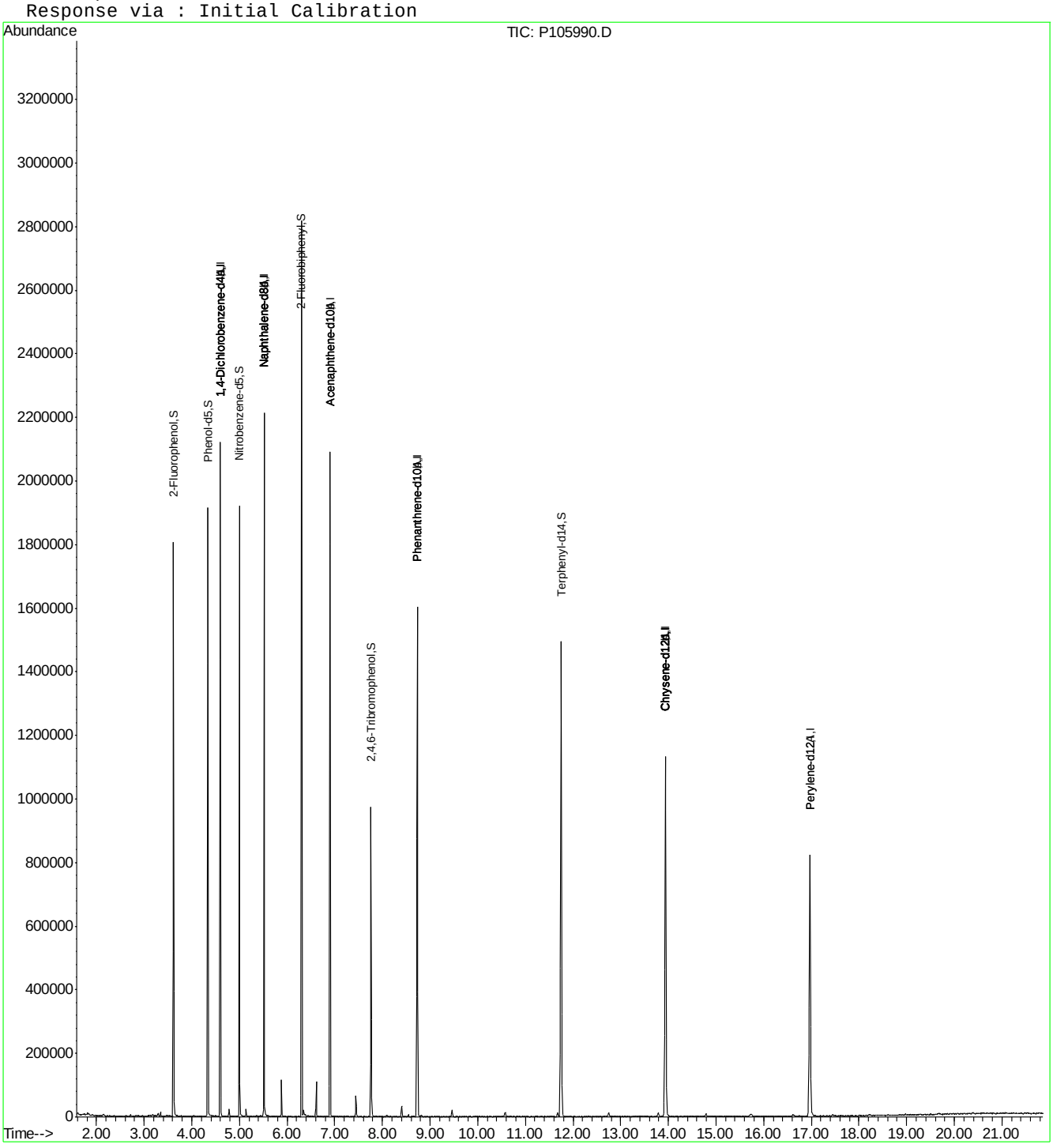
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105990.D Vial: 14
Acq On : 11 Jul 2016 9:42 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:42 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105991.D Vial: 15
Acq On : 11 Jul 2016 10:11 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:42:59 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	214429	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	671021	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	396321	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	714892	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	711507	40.00	ppm	-0.02
91) Perylene-d12	16.97	264	576704	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4A	4.60	152	214429	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	671021	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	396321	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	714892	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	711507	40.00	ppm	-0.02
154) Perylene-d12A	16.97	264	576704	40.00	ppm	-0.02
158) 1,4-Dichlorobenzene-d4b	4.60	152	214429	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	714892	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	711507	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	671021	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	396321	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	671021	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	214429	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	712028	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	712028	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	671021	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
88) 3,3'-Dichlorobenzidine	13.98	252	321658	47.05	ppm	98

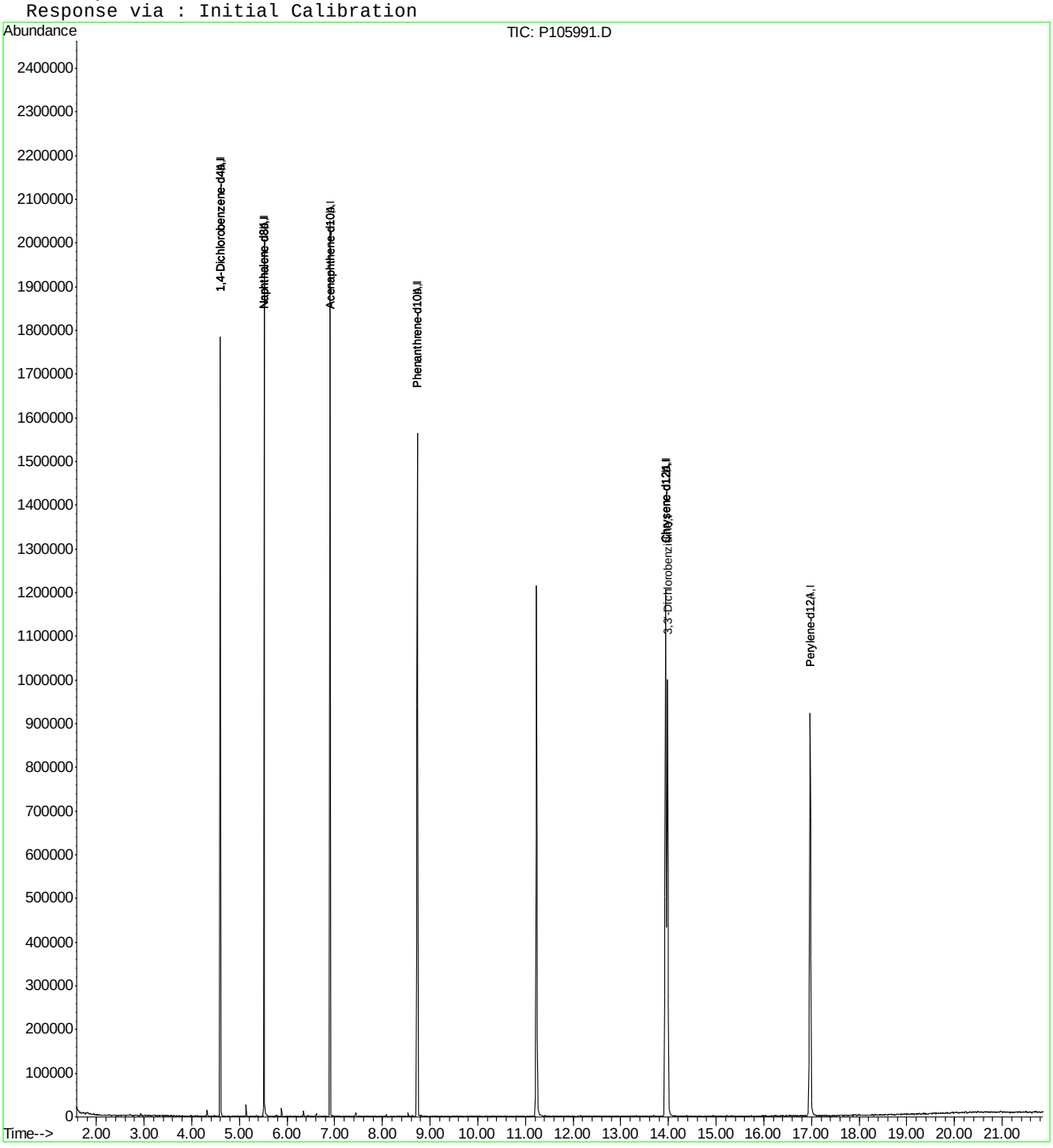
(#) = qualifier out of range (m) = manual integration (+) = signals summed
P105991.D MP4681.M Tue Jul 12 13:53:00 2016

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105991.D Vial: 15
Acq On : 11 Jul 2016 10:11 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:43 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



P105991.D MP4681.M Tue Jul 12 13:53:00 2016 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105992.D Vial: 16
Acq On : 11 Jul 2016 10:40 pm Operator: brittanp
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:43:57 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	211623	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	671498	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	387138	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	701924	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	704386	40.00	ppm	-0.02
91) Perylene-d12	16.97	264	564238	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4A	4.60	152	211623	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	671498	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	387138	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	701924	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	704386	40.00	ppm	-0.02
154) Perylene-d12A	16.97	264	564238	40.00	ppm	-0.02
158) 1,4-Dichlorobenzene-d4b	4.60	152	211623	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	701924	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	704386	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	671498	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	387138	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	671498	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	211623	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	704386	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	704386	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	671498	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
165) Hydroquinone	5.81	110	307115	52.39	ppm	70

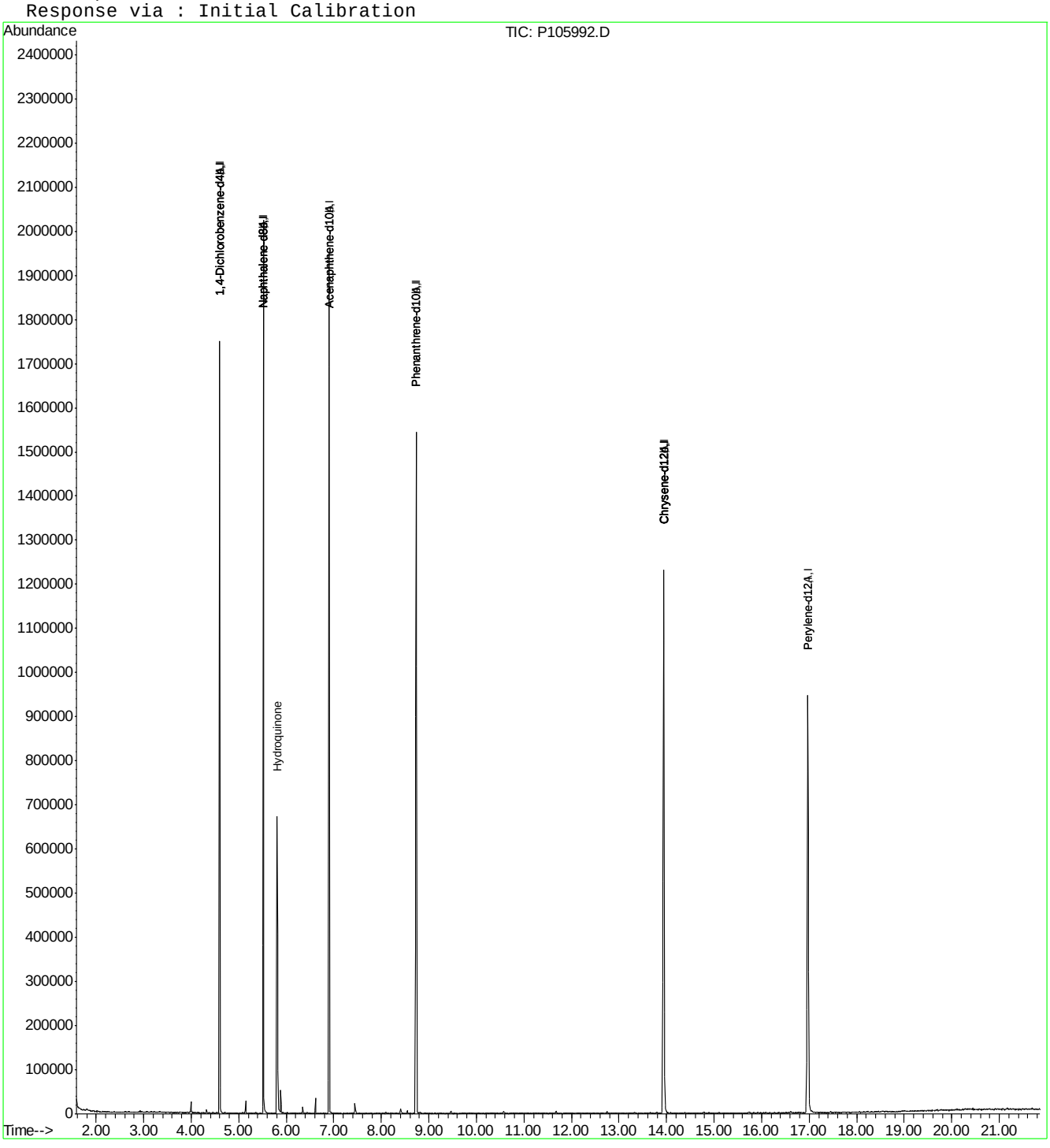
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105992.D Vial: 16
Acq On : 11 Jul 2016 10:40 pm Operator: brittanp
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:44 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105998.D Vial: 2
Acq On : 12 Jul 2016 4:43 pm Operator: ashleyd
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 17:11:20 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.58	152	196369	40.00	ppm	-0.02
24) Naphthalene-d8	5.50	136	744238	40.00	ppm	-0.02
47) Acenaphthene-d10	6.88	164	365397	40.00	ppm	-0.03
69) Phenanthrene-d10	8.70	188	628741	40.00	ppm	-0.04
83) Chrysene-d12	13.90	240	661098	40.00	ppm	-0.05
91) Perylene-d12	16.93	264	461690	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4A	4.58	152	196369	40.00	ppm	-0.02
111) Naphthalene-d8A	5.50	136	744238	40.00	ppm	-0.02
120) Acenaphthene-d10A	6.88	164	365397	40.00	ppm	-0.03
131) Phenanthrene-d10A	8.70	188	628741	40.00	ppm	-0.04
146) Chrysene-d12A	13.90	240	661098	40.00	ppm	-0.05
154) Perylene-d12A	16.93	264	461690	40.00	ppm	-0.05
158) 1,4-Dichlorobenzene-d4b	4.58	152	196369	40.00	ppm	-0.02
160) Phenanthrene-d10b	8.70	188	628741	40.00	ppm	-0.03
162) Chrysene-d12b	13.90	240	661098	40.00	ppm	-0.04
164) Naphthalene-d8b	5.50	136	744238	40.00	ppm	-0.02
166) Acenaphthene-d10b	6.88	164	365397	40.00	ppm	-0.02
168) Naphthalene-d8c	5.50	136	744238	40.00	ppm	-0.02
173) 1,4-Dichlorobenzene-d4a	4.58	152	196369	40.00	ppm	-0.03
175) Chrysene-d12c	13.90	240	661098	40.00	ppm	-0.05
177) Chrysene-d12d	13.90	240	661098	40.00	ppm	-0.05
179) Naphthalene-d8d	5.50	136	744238	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	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	2.12	88	132447	37.82	ppm	100
6) Indene	4.76	116	523238	45.28	ppm	99
7) Cumene	3.98	105	689994	39.81	ppm	98
13) Decane	4.46	43	256445	34.45	ppm	89
18) Acetophenone	4.87	105	419768	45.53	ppm	86
27) Quinoline	5.75	129	543304	36.67	ppm	98
40) 2,3-Dichloroaniline	6.22	161	263352	35.77	ppm	98
41) Caprolactam	5.79	55	170190	35.08	ppm	95
45) 1-Methylnaphthalene	6.08	142	508589	38.13	ppm	98
46) Dimethylnaphthalene	6.50	156	462878	38.40	ppm	99
53) Biphenyl	6.37	154	633830	45.59	ppm	97
82) Octadecane	8.61	57	454737	43.52	ppm	98

(#) = qualifier out of range (m) = manual integration
P105998.D MP4681.M Tue Jul 12 17:22:24 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105998.D Vial: 2
Acq On : 12 Jul 2016 4:43 pm Operator: ashleyd
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 17:11:20 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
99) 7,12-Dimethylbenz(a)anthra	16.20	256	250655	33.59 ppm	100

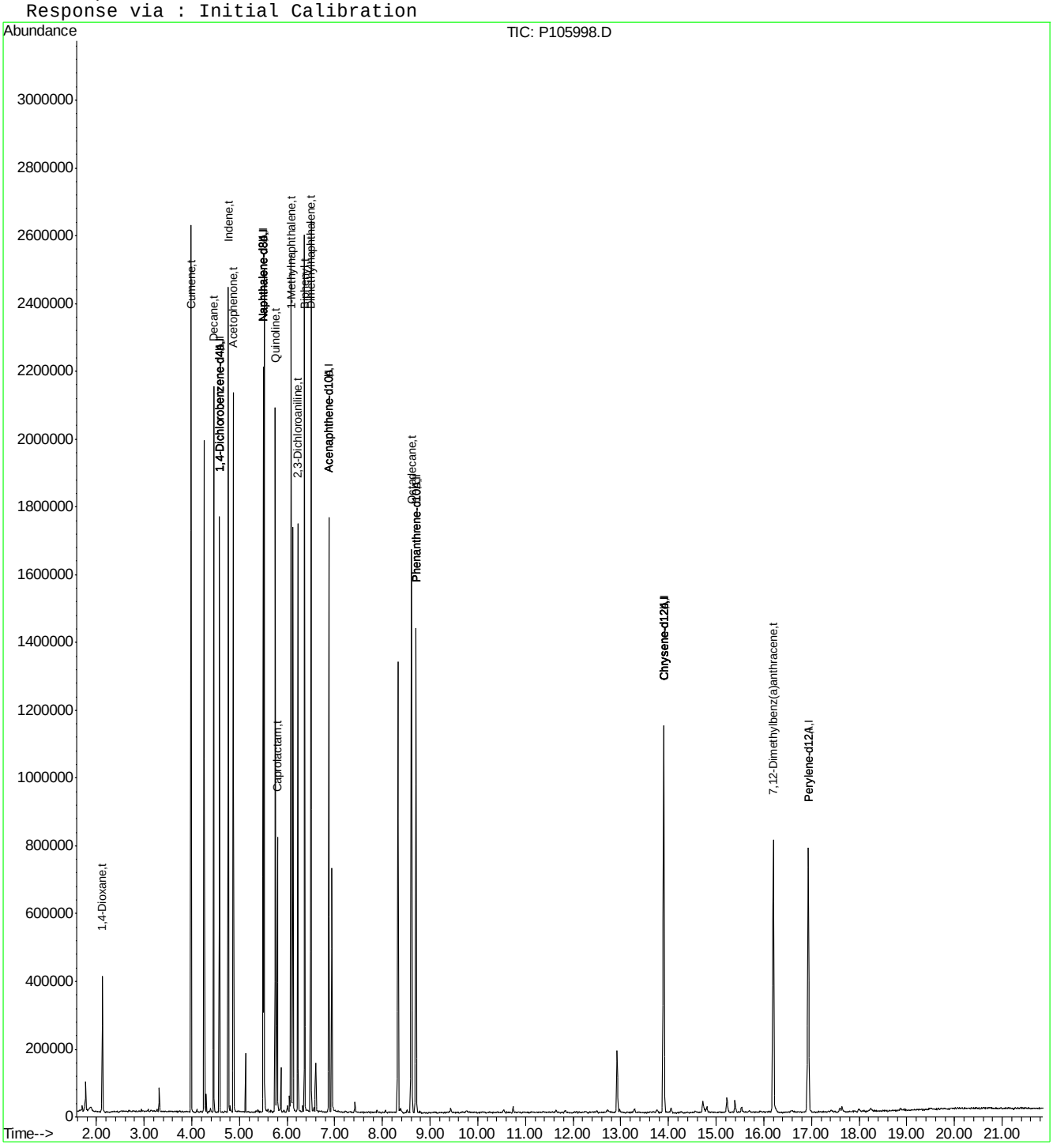
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105998.D Vial: 2
Acq On : 12 Jul 2016 4:43 pm Operator: ashleyd
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 17:22 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration



P105998.D MP4681.M Tue Jul 12 17:22:24 2016 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105998A.D Vial: 2
Acq On : 12 Jul 2016 4:43 pm Operator: ashleyd
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 17:11:20 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.58	152	196369	40.00	ppm	-0.02
24) Naphthalene-d8	5.50	136	744238	40.00	ppm	-0.02
47) Acenaphthene-d10	6.88	164	365397	40.00	ppm	-0.03
69) Phenanthrene-d10	8.70	188	628741	40.00	ppm	-0.04
83) Chrysene-d12	13.90	240	661098	40.00	ppm	-0.05
91) Perylene-d12	16.93	264	461690	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4A	4.58	152	196369	40.00	ppm	-0.02
111) Naphthalene-d8A	5.50	136	744238	40.00	ppm	-0.02
120) Acenaphthene-d10A	6.88	164	365397	40.00	ppm	-0.03
131) Phenanthrene-d10A	8.70	188	628741	40.00	ppm	-0.04
146) Chrysene-d12A	13.90	240	661098	40.00	ppm	-0.05
154) Perylene-d12A	16.93	264	461690	40.00	ppm	-0.05
158) 1,4-Dichlorobenzene-d4b	4.58	152	196369	40.00	ppm	-0.02
160) Phenanthrene-d10b	8.70	188	628741	40.00	ppm	-0.03
162) Chrysene-d12b	13.90	240	661098	40.00	ppm	-0.04
164) Naphthalene-d8b	5.50	136	744238	40.00	ppm	-0.02
166) Acenaphthene-d10b	6.88	164	365397	40.00	ppm	-0.02
168) Naphthalene-d8c	5.50	136	744238	40.00	ppm	-0.02
173) 1,4-Dichlorobenzene-d4a	4.58	152	196369	40.00	ppm	-0.03
175) Chrysene-d12c	13.90	240	661098	40.00	ppm	-0.05
177) Chrysene-d12d	13.90	240	661098	40.00	ppm	-0.05
179) Naphthalene-d8d	5.50	136	744238	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	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%			

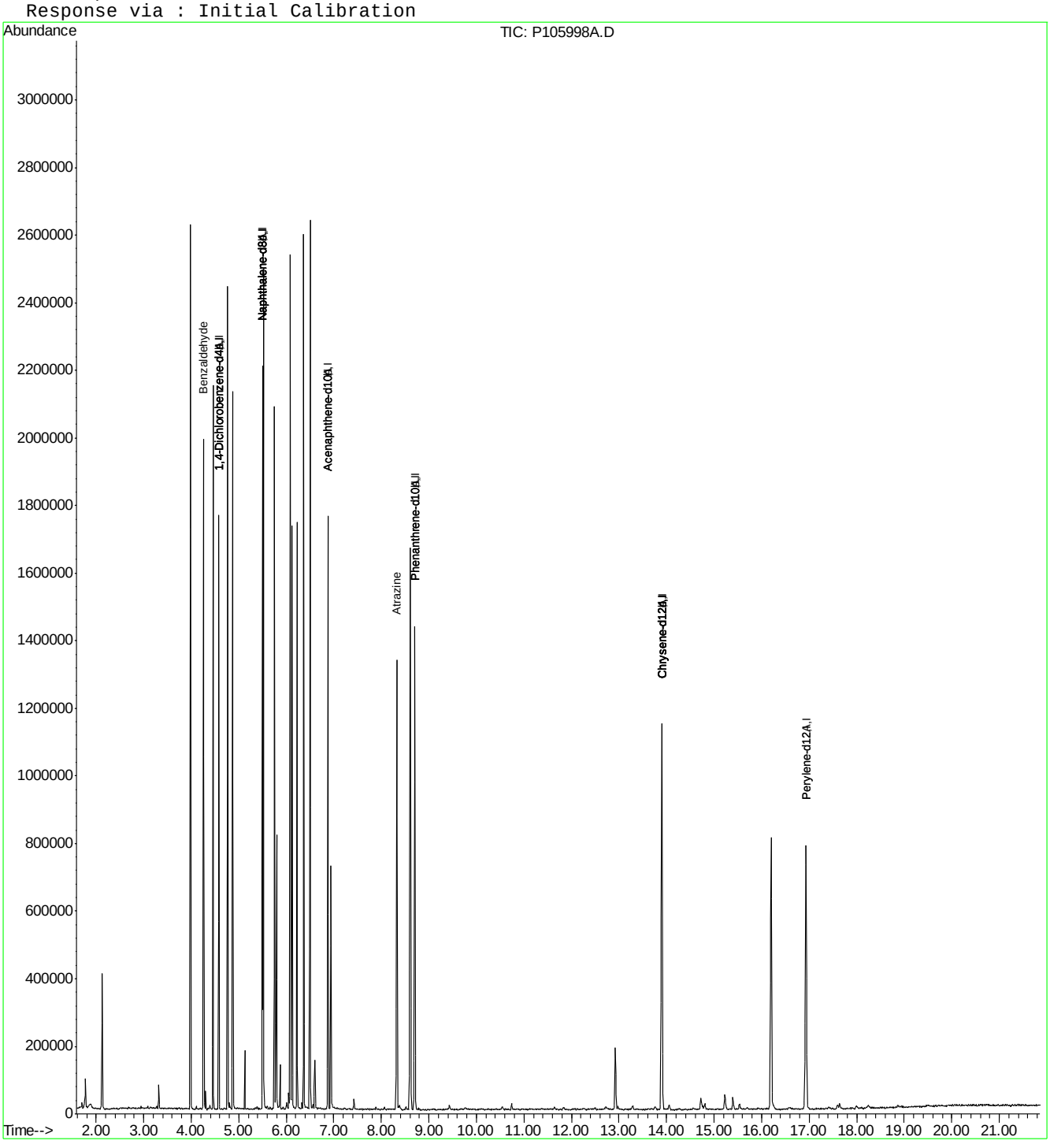
Target Compounds						Qvalue
159) Benzaldehyde	4.26	105	261801	51.91	ppm	84
161) Atrazine	8.33	200	174276	61.15	ppm	84

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105998A.D Vial: 2
Acq On : 12 Jul 2016 4:43 pm Operator: ashleyd
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 17:22 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration



P105998A.D MP4681.M Tue Jul 12 17:22:11 2016 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106355.D Vial: 2
Acq On : 26 Jul 2016 12:32 pm Operator: brittanp
Sample : cc4681-25 Inst : MSP
Misc : op95516,ep4702 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 12:54:06 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jul 21 12:24:47 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.42	152	134146	40.00	ppm	0.00
24) Naphthalene-d8	5.34	136	475737	40.00	ppm	0.00
47) Acenaphthene-d10	6.68	164	296703	40.00	ppm	-0.02
69) Phenanthrene-d10	8.43	188	540818	40.00	ppm	-0.03
83) Chrysene-d12	13.56	240	550356	40.00	ppm	-0.05
91) Perylene-d12	16.58	264	507140	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4b	4.42	152	134146	40.00	ppm	0.00
103) Phenanthrene-d10b	8.43	188	540818	40.00	ppm	-0.03
105) Chrysene-d12b	13.56	240	550356	40.00	ppm	-0.05
107) Naphthalene-d8b	5.34	136	475737	40.00	ppm	0.00
109) Acenaphthene-d10b	6.68	164	296703	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.44	112	129418	28.69	ppm	-0.03
Spiked Amount 50.000			Recovery = 57.38%			
8) Phenol-d5	4.19	99	155074	24.37	ppm	0.01
Spiked Amount 50.000			Recovery = 48.74%			
25) Nitrobenzene-d5	4.82	82	140160	23.38	ppm	-0.03
Spiked Amount 50.000			Recovery = 46.76%			
51) 2-Fluorobiphenyl	6.11	172	247070	25.50	ppm	0.00
Spiked Amount 50.000			Recovery = 51.00%			
73) 2,4,6-Tribromophenol	7.50	330	33612	28.13	ppm	-0.02
Spiked Amount 50.000			Recovery = 56.26%			
85) Terphenyl-d14	11.38	244	289725	27.15	ppm	-0.04
Spiked Amount 50.000			Recovery = 54.30%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.90	88	59268	24.77	ppm	# 64
3) Pyridine	2.24	79	155928	26.55	ppm	83
4) N-Nitrosodimethylamine	2.21	42	68224	31.22	ppm	# 64
6) Indene	4.60	116	225964	28.63	ppm	92
7) Cumene	3.81	105	321483	27.15	ppm	95
9) Phenol	4.20	94	183186	24.44	ppm	72
10) Aniline	4.18	93	200587	23.26	ppm	# 25
11) bis(2-Chloroethyl)ether	4.23	93	115604	23.42	ppm	89
12) 2-Chlorophenol	4.27	128	129471	28.06	ppm	92
13) Decane	4.30	43	108467	21.33	ppm	89
14) 1,3-Dichlorobenzene	4.37	146	136445	28.98	ppm	99
15) 1,4-Dichlorobenzene	4.43	146	133316	29.71	ppm	98
16) Benzyl alcohol	4.53	108	87713	27.18	ppm	99
17) 1,2-Dichlorobenzene	4.54	146	121618	28.73	ppm	97
18) Acetophenone	4.72	105	179847	28.56	ppm	87
19) 2-Methylphenol	4.63	108	117138	28.57	ppm	94
20) 2,2'-oxybis(1-Chloropropan	4.62	121	37975	26.35	ppm	# 45
21) 3&4-Methylphenol	4.74	108	127566	28.81	ppm	89
22) n-Nitroso-di-n-propylamine	4.72	70	92267	25.55	ppm	93
23) Hexachloroethane	4.78	201	49714	28.53	ppm	98
26) Nitrobenzene	4.84	77	140759	22.75	ppm	98
27) Quinoline	5.60	129	257905	27.23	ppm	98
28) Isophorone	5.01	82	243015	23.24	ppm	95

(#) = qualifier out of range (m) = manual integration
P106355.D MP4681.M Tue Jul 26 15:53:37 2016

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106355.D Vial: 2
Acq On : 26 Jul 2016 12:32 pm Operator: brittanp
Sample : cc4681-25 Inst : MSP
Misc : op95516,ep4702 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 12:54:06 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jul 21 12:24:47 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.07	139	73960	29.52	ppm		79
30)	2,4-Dimethylphenol	5.11	107	125795	24.37	ppm		95
31)	Benzoic acid	5.21	105	101505	26.68	ppm		91
32)	bis(2-Chloroethoxy)methane	5.17	93	139675	23.02	ppm		97
33)	2,4-Dichlorophenol	5.25	162	109861	28.28	ppm		96
34)	2,6-Dichlorophenol	5.40	162	102974	27.26	ppm		95
35)	1,3,5-Trichlorobenzene	5.07	180	125242	28.17	ppm		96
36)	1,2,4-Trichlorobenzene	5.30	180	112326	26.85	ppm		99
37)	1,2,3-Trichlorobenzene	5.45	180	112316	27.75	ppm		98
38)	Naphthalene	5.35	128	334861	27.40	ppm		97
39)	4-Chloroaniline	5.40	127	153444	25.95	ppm		94
40)	2,3-Dichloroaniline	6.05	161	126565	26.89	ppm		99
41)	Caprolactam	5.66	55	54280	17.50	ppm	#	77
42)	Hexachlorobutadiene	5.44	225	67630	25.87	ppm		99
43)	4-Chloro-3-methylphenol	5.76	107	123789	28.10	ppm		90
44)	2-Methylnaphthalene	5.84	141	214554	29.09	ppm		92
45)	1-Methylnaphthalene	5.91	142	236650	27.76	ppm		91
46)	Dimethylnaphthalene	6.31	156	217626	28.24	ppm		97
48)	Hexachlorocyclopentadiene	5.95	237	111459	38.64	ppm		92
49)	2,4,6-Trichlorophenol	6.06	196	80571	25.08	ppm		89
50)	2,4,5-Trichlorophenol	6.09	196	87050	25.73	ppm		98
52)	2-Chloronaphthalene	6.21	162	216317	26.40	ppm		95
53)	Biphenyl	6.19	154	294829	26.12	ppm		99
54)	2-Nitroaniline	6.30	65	87515	21.42	ppm		85
55)	Dimethylphthalate	6.44	163	267403	28.54	ppm		99
56)	Acenaphthylene	6.55	152	368129	26.70	ppm		97
57)	2,6-Dinitrotoluene	6.49	165	61917	30.97	ppm		78
58)	3-Nitroaniline	6.65	138	73785	26.37	ppm		80
59)	Acenaphthene	6.70	153	222415	27.11	ppm		97
60)	2,4-Dinitrophenol	6.75	184	57927	45.41	ppm	#	93
61)	4-Nitrophenol	6.84	109	41938	23.33	ppm		86
62)	Dibenzofuran	6.87	168	344017	26.10	ppm		83
63)	2,4-Dinitrotoluene	6.87	165	83077	29.02	ppm		98
64)	2,3,4,6-Tetrachlorophenol	7.00	232	69219	25.72	ppm		94
65)	Diethylphthalate	7.11	149	268046	25.43	ppm		99
66)	Fluorene	7.23	166	265121	25.82	ppm		94
67)	4-Chlorophenyl-phenylether	7.23	204	135432	26.16	ppm		93
68)	4-Nitroaniline	7.26	138	66999	23.95	ppm		85
70)	4,6-Dinitro-2-methylphenol	7.30	198	49861	28.03	ppm		79
71)	n-Nitrosodiphenylamine	7.37	169	191959	27.25	ppm		99
72)	1,2-Diphenylhydrazine	7.41	77	272716	21.28	ppm		94
74)	4-Bromophenyl-phenylether	7.81	248	78544	26.08	ppm		99
75)	Hexachlorobenzene	7.88	284	76465	24.90	ppm		93
76)	Pentachlorophenol	8.17	266	83536	48.30	ppm		95
77)	Phenanthrene	8.47	178	372304	27.88	ppm		97
78)	Anthracene	8.54	178	388681	28.41	ppm		96
79)	Carbazole	8.82	167	389677	27.16	ppm		98
80)	Di-n-butylphthalate	9.49	149	471135	26.70	ppm		97
81)	Fluoranthene	10.52	202	462572	25.70	ppm		98

(#) = qualifier out of range (m) = manual integration
P106355.D MP4681.M Tue Jul 26 15:53:37 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106355.D Vial: 2
Acq On : 26 Jul 2016 12:32 pm Operator: brittanp
Sample : cc4681-25 Inst : MSP
Misc : op95516,ep4702 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 12:54:06 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jul 21 12:24:47 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.34	57	159380	17.73	ppm	86
84)	Pyrene	10.94	202	476801	25.84	ppm	100
86)	Butylbenzylphthalate	12.55	149	218038	26.61	ppm	89
87)	Benzo[a]anthracene	13.54	228	440982	27.84	ppm	97
88)	3,3'-Dichlorobenzidine	13.60	252	146265	27.66	ppm	97
89)	Chrysene	13.61	228	406214	28.86	ppm	99
90)	bis(2-Ethylhexyl)phthalate	13.95	149	286481	29.46	ppm	93
92)	Di-n-octylphthalate	15.39	149	498486	23.67	ppm	99
93)	Benzo[b]fluoranthene	15.83	252	423520	23.34	ppm	97
94)	Benzo[k]fluoranthene	15.89	252	386016	24.78	ppm	98
95)	Benzo[a]pyrene	16.45	252	374467	24.01	ppm	94
96)	Indeno[1,2,3-cd]pyrene	18.51	276	323858	27.70	ppm	83
97)	Dibenz(a,h)acridine	18.16	279	298293	25.62	ppm	96
98)	Dibenz[a,h]anthracene	18.57	278	310048	27.36	ppm	94
99)	7,12-Dimethylbenz(a)anthra	15.85	256	189779	23.16	ppm	97
100)	Benzo[g,h,i]perylene	18.93	276	346211	27.78	ppm	97

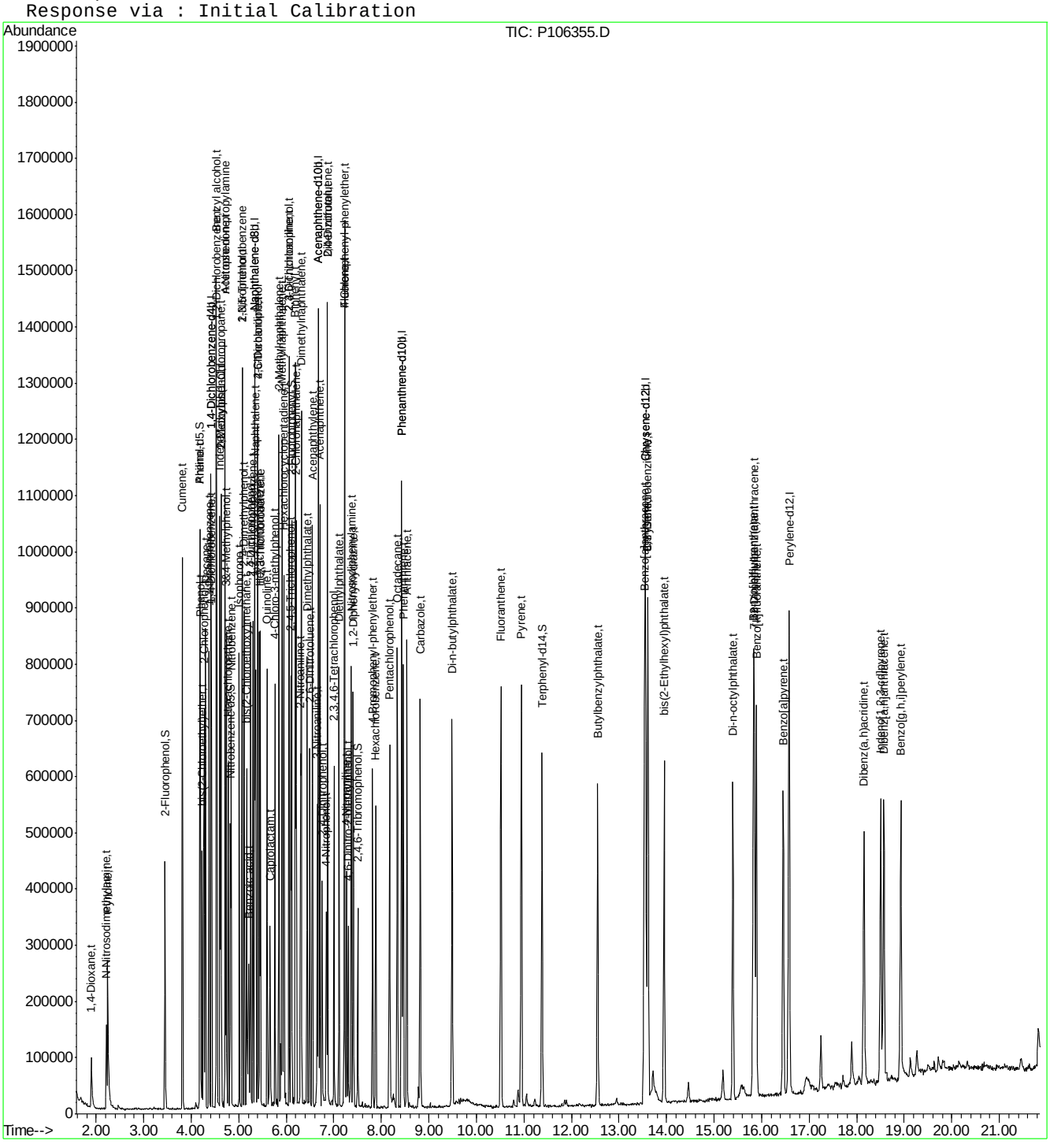
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106355.D Vial: 2
Acq On : 26 Jul 2016 12:32 pm Operator: brittanp
Sample : cc4681-25 Inst : MSP
Misc : op95516,ep4702 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 15:53 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 26 14:07:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106356.D Vial: 3
Acq On : 26 Jul 2016 1:08 pm Operator: brittanp
Sample : cc4682-25 Inst : MSP
Misc : op95516,ep4702 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 13:30:48 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jul 21 12:24:47 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.42	152	150720	40.00	ppm	0.00
24) Naphthalene-d8	5.34	136	544137	40.00	ppm	-0.01
47) Acenaphthene-d10	6.67	164	347063	40.00	ppm	-0.02
69) Phenanthrene-d10	8.42	188	607388	40.00	ppm	-0.04
83) Chrysene-d12	13.55	240	623358	40.00	ppm	-0.05
91) Perylene-d12	16.58	264	567300	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4b	4.42	152	150720	40.00	ppm	0.00
103) Phenanthrene-d10b	8.42	188	607388	40.00	ppm	-0.04
105) Chrysene-d12b	13.55	240	623358	40.00	ppm	-0.05
107) Naphthalene-d8b	5.34	136	544137	40.00	ppm	-0.01
109) Acenaphthene-d10b	6.67	164	347063	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	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
102) Benzaldehyde	4.10	105	106465	27.50	ppm #	74
104) Atrazine	8.07	200	82563	29.99	ppm	90
106) Benzidine	10.87	184	143174	17.50	ppm	98
108) Hydroquinone	5.65	110	141966	29.88	ppm	73
110) 1,2,4,5-Tetrachlorobenzene	5.96	216	120642	23.25	ppm	95

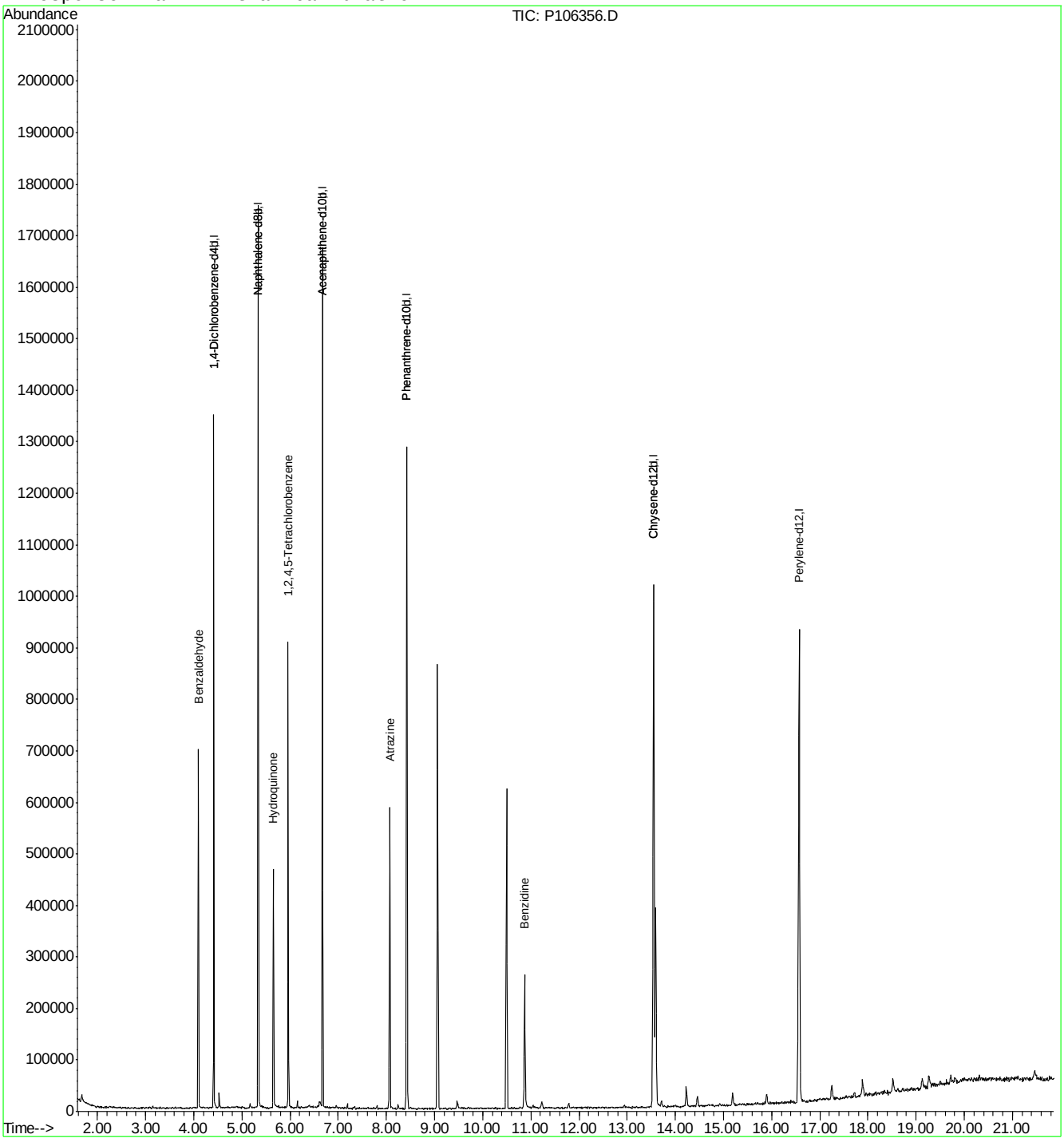
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24622

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4702\P106356.D Vial: 3
Acq On : 26 Jul 2016 1:08 pm Operator: brittanp
Sample : cc4682-25 Inst : MSP
Misc : op95516,ep4702 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 15:54 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 26 14:07:52 2016
Response via : Initial Calibration



SGS ACCUTEST JC24622

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2975

Print Analyst Name: Ashley MDyer

Date: 7/14/2016

Analyst Signature: AMD

Columns: Rtx5Sil ms30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975Sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFTPP	50 ppm
SV161935-04	SIM Internal	100 ppm
163039	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: [illegible]

Date: 7-18-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M62949	DFTPP				1					OK	930AM
	62950	IC2975-.2		BNASIM	W	2					OK	SV161935-60C
	62951	-.1				3					OK	SV161935-60D
	62952	-.05				4					OK	SV161935-60E
	62953	-.02				5					OK	SV161935-60F
	62954	-.01				6					OK	SV161935-60G
	62955	-5				7					OK	SV161935-60A
	62956	-2.5				8					OK	SV161935-60B
	62957	IC2975-1				9					OK	SV161935-100A
	62958	IC2975-.5				10					OK	SV161935-100B
	62959	CV2975-1.0		BN	W	11					not using	1,4Dioxane OP61770G
	62960	-1.0		Acid.	W	12					not using	acids SV161935-53 reinstall. 408PM.
												AMD

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

7.7.1

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2976

Print Analyst Name: Ashley M Dye

Date: 7/14/2016

Analyst Signature: AMD

Columns: 12x15ft x 3.0mm x 25mm x 5µm

Method 8270D/625

Initial Cal. Method M3M2975Sim

Injection Volume: 1 µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16193589	DFTPP	50 ppm
SV16193501	Sim std. internal	400 ppm
163039	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: [signature] Date: 7-18-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M62961	DFTPP				1					OK	504PM
	62962	ICV2975-1.0		Acid 2nd	W	2					OK	SV16193576
	62963	-1.0		BN 2nd	W	3					OK	OP16177012
												AMD

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

7.7.2

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3m 3002

Print Analyst Name: Shanice Grant

Analyst Signature: SG

Date: 8/1/2016

Columns: Rxi5sil ms 30m×25mm×.25µm

Method 8270D/625

Initial Cal. Method M3M2975 slm

Injection Volume: 1 µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1619 3589	dftpp	50 µg
1619351000	sim std ~~0.5~~	0.5
1619351115	sim intemal	400 ppm
1603534	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: [illegible]

Date: 8/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M63362	dftpp				1					not using	681 cc.
	63363	dftpp				1						9:02 am
	63364	cc2975-.5				2						blk split ht, / reinstall
	63365	DFTPP				1					not using	failing 127
	63366	DFTPP				1					OK	④ SGN ~~failing 127~~ 1032 AM.
	63367	cc2975-.5				2					OK	
	63368	op95759-mb1	95759-1	B8270	S	3		3↑	✓		OK	RR for cfi
	63369	-bs12				4		✓	✓		OK	
	63370	JC24483-1		Bsimpah		5		4↑	✓		OK	confirms w/ms/MSD. ~~ff fails~~ AM 08/11/16
	63371	op95759-ms				6		4↑	✓		OK	
	63372	-msd				7		4↑	✓		OK	
	63373	op95826-mb1	95821	ABS270	W	8		✓	✓		ok	
	63374	-BS12				9		✓	✓		ok	
	63375	JC24566-3				10		✓	✓		ok	
	63376	op95909-mb1	95909-1	AB8270	S	11		✓	✓		ok	
	63377	JC24566-1	95821	Bsimpah	S	12		4↑	✓		OK	cfi.
	63378	JC24483-1	95789	↓		~~13~~ 5		4↑	✓		not needed	

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

7.7.3

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SGS ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID E3M2002

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 8/1/16

Columns: Rtx 5ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M297581m

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 27	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMW

Date: 8/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M63379	0995789-MS	95789	B8270		6			✓	✓	not reported	
	63380	MSD				7			✓	✓		624PM

AMW

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M3007

Print Analyst Name: Shanice Grant

Analyst Signature: SG

Date: 08/04/2016

Columns: Rtx5Sil MS 30m x .25mm x .25µm

Method 8270D / 625

Initial Cal. Method M3M2975 sim

Injection Volume: 1.0 µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 16193589	dftpp	50µg
SV 16193510OA	sim std	1µg
SV 16193515	sim internal	40µg/mL
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: 8/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M 63443	dftpp				1					not using	70, 441, 443
	63444	dftpp				1						197↑
	63445	dftpp				1						Tailing↑ reinstall
	63446	dftpp				1						9:57 am.
	63447	CC2975-1		BNA sim.		2					↓	reinstall.
	63448	DFTPP				1					not using	127 cut reinn.
	63449	DFTPP ~~CC2975-1~~ SG @ 8/4		~~BNA sim~~		~~2~~ 1					OK	1205PM.
	63450	CC2975-1		BNA sim	N	2					not using	fix windows peaks cut off.
	63451	CC2975-1		BNA sim	N	2					OK	
	63452	JC24622-4	95824	1,4 DIOXANE	N	3			✓	N	OK	124PM.
												AMO

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P 2503

Print Analyst Name: Hank Chao

Analyst Signature: HC

Date: 7/6/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV515791	DFTPP	50ppm
SV16A3594	SIM internal	400ppm
163B9	DCMFshed	—

Columns: Rtx-5Sil ms 30m x .25mm x .25

Method 8270D/625

Initial Cal. Method M3P2503SIM

Injection Volume: 1.0µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to compl with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 7/8/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3P54953	DFTPP				1					OK	9:12 am
	54954	ICC2503-1.0		BMASIM	W	2					not using	fix grouping reran as A file no
	54955	ICC2503-1.0		BMASIM	W	2					OK	SV16A935-90A
	54956	IC2503-001				3					OK	SV16-1935-60G
	54957	-0.02				4					OK	-60F
	54958	-0.05				5					OK	-60E
	54959	-0.1				6					OK	-60D
	54960	-0.2				7					OK	-60C
	54961	-5				8					OK	-60A
	54962	-2.5				9					OK	-60B
	54963	-0.5				10					OK	-90B
	54964	ICV2503-1.0		BSIM2nd	W	11					OK	OP16A7972 pan ST Rerun.
	54965	-1.0		Acid2nd	W	12					OK	SV16A93596 phenol T

AMO

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P2524

Print Analyst Name: Shanice Grant

Date: 7-26-16

Analyst Signature: SG

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 161835889	dFtpp	50ppm
SV 16193510	sim standard	0.5ppm
SV 16193510	sim internal	400ppm
163534	DCM (Fisher)	

Columns: Rxissilms 30m X 0.25mm x 125µm

Method 8270D/625

Initial Cal. Method m3P2503sim

Injection Volume: 1.0µL

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: 8-3-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3P55255	dFtpp			W	1					OK	827AM.
	3P35256	CC2503-0.5		BNAsim	W	2					OK	
	3P35257	OP95827A-MB	95827A	B8270	W	3			✓	✓	OK	
	3P35258	-BS2				4			✓	✓	OK	
	3P35259	-MS				5			✓	✓	OK	
	3P35260	-MSD				6			✓	✓	OK	
	3P35261	SC 24622-2		BSIM 14D1ox, BSIM+NAP		7			✓	✓	OK	
	3P35262	-1				8			✓	✓	OK	
	3P35263	-3				9			✓	✓	OK	109PM. run by 8270

BP 07/28/2016

AMO

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P2534

Print Analyst Name: Ashley Updyke

Date: 8/2/2016

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

	Lot #	Description	Conc.
SV	16193589	dft pp	50 µg
SV	16193510A	sim std	1 µg
SV	16193511S	sim internal	400 µg
	162989	DCM (FS) (C)	—

Columns: Rx1Fsil ms30m×25mm×25µL

Method 8270D/625

Initial Cal. Method M3P2503sim

Injection Volume: µL

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: 8-3-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3P55400	DFTPP			W	1					OK	855AM
	55401	CC2503-1 CC2956		BNAsim	W	2					OK	
	55402	JC24258-1	95661	ABSIMNJ + 14 D10X	W	3			✓	✓	OK	
	55403A	-3				4			✓	✓	OK	from 00 A-file instrument shut down
	55404	-4				5			✓	✓	OK	
	55405	-5				6			✓	✓	OK	
	55406	JC24230-8				7			✓		RR	cannot report hits.
	55407	-10				8			✓	✓	OK	
	55408	OP95661A-MS		AB8270 sim		9			✓	✓	OK	
	55409	-MSD				10			✓	✓	OK	
	55410	OP95821A-MB1	95821	AB8270	W	11			✓	✓	OK	
	55411	-BS12				12			✓	✓	OK	
	55412	-MS				13			✓	✓	OK	
	55413	-MSD				14			✓	✓	OK	
	55414	JC24549-20		ABSIMNJ + 14 D10X		15			✓	✓	OK	
	55415	-21				16			✓	✓	OK	
	55416	-22				17			✓	✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.2.7

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P2534

Print Analyst Name: Shanice Grant

Analyst Signature: SG

Date: 8-2-16

Columns: Rxi5silms 30m×.25mm×.25µm

Method 8270D | 625

Initial Cal. Method M3P2503sim

Injection Volume: 1.0 µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 95	

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: AMM Date: 8-3-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3P55417	JC24549-23	95821	AB8270simMJ +14D10X	W	18			✓	✓	RR	instrumental carryover 8:35PM
	55418	JC24563-1				19			✓	✓	ok	
	55419	JC24606-1				20					Not using	} cont of Tune, RR 9:07
	55420	-2				21					↓	
	55421	OP95939MB	95939	AB8270	W	22			✓	✓	OK	run before 55407
	55422	-BS12				23			✓	✓	OK	hexbutadiene ↓ RR to confirm failure
	55423	JC24978-6		1,4DIOX+ nap.		24			✓	✓	OK	

8/3/16

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.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M3032

Print Analyst Name: Julius M Johnson

Date: 8/3/16

Analyst Signature: JMJ

Columns: Rx5Si/MS 30m x .25mm x .25 µm

Method 8270D/625

Initial Cal. Method M4M3032im

Injection Volume: 1 µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161335589	DFTPP	50 ppm
163582	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: [signature] Date: 8/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M67119	DFTPP				1					OK	3:58 pm 4M67122
	4M67120	ICV3032-1.0				2					OK	SV161935-126C
	4M67121	ICV3032-0.5				3					OK	-126D
	67122	ICV3032-0.2				4					OK	-126E
	67123	ICV3032-0.1				5					OK	-126F
	67124	ICV3032-0.05				6					OK	-126G
	67125	ICV3032-0.02				7					OK	-126H
	67126	ICV3032-0.01				8					OK	-126I
	67127	ICV3032-5				9					OK	-126A
AMO 8/4/16	67128	ICV3032-2.5				10					OK	-126B
	67129	ICV3032-1.0		BSIM		11					OK	OP16177041
	67130	ICV3032-1.0		~~BSIM~~ Acid Spike		12					12R	SV16M35106 ~~OP16177041~~ 4M67133 932 PM
	~~67131~~	~~ICV3032-1.0~~	8/3/16	Acid Spike		13						SV161935106 8/3/16

AMO

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M3033

Print Analyst Name: Ashley Dye

Date: 8/4/2016.

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16193589	DFTPP	50 ng
SV16193515	sim internal	400 ng/mL
163582	DCM (Fisher)	—

Columns: RV1551 (m) 30m x .25mm x .25 µm

Method 8270D/625

Initial Cal. Method M4M3032Sim

Injection Volume: mL

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: 8/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4M67134	dftpp				1					not sig	442 ↑ Rerun.
	67135	DFTPP				1					OK	1010 AM.
	67136	rv3032-1		Acid	W	2					OK	SV16193510 6. 1022 AM

ALL

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.9

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M3036

Print Analyst Name: Shanice Grant

Analyst Signature: SG

Date: 08/05/2016

Columns: Rxi5Sil ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M4M3032 sim

Injection Volume: 1.0 µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 16193589	dfmp	50µg
SV ~~16193580A~~	~~sim std~~	~~1µg~~
SV 16193512br	sim std	1µg
SV 16193515	sim internal	400ppm
163534	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: [signature] Date: 8/8/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M67178	dfmp				1					not using	442 rrm
	67179	dfmp				1					OK	945AM
	67180A	CC3032-1				2					OK	rerun as "A" file name
	67181	op95661mb1	95661	A13270	W	3			✓	✓	OK	
	67182	JC24230-8		ABSimNS+ 1,4Dlox		4			✓	✓	OK	
	67183	JC24230-6	95641	ABSimNS+ 1,4Dlox	W	5			All ↓		RR	
	67184A	op95848mb1	95848	A13270	W	6			All ↓	✓	OK RR AMG 8/5/16	ran after 4M678
	67185	TS12				7			✓	✓	OK	
	67186	JC24282-5	95671	ABSimNS+ 1,4Dlox	W	8			✓	✓	OK	
	67187	op95821mb1	95821	ABS270	W	9			✓	✓	OK	
	67188	JC24549-23		ABSimNS+ 1,4Dlox		10			✓	✓	OK	
	67189	JC24230-6				~~11~~ 5	AMG 8/5/16		All ↓		RR	Reinstall 422PM
						12						
						13						
						14						
						15						
						16	AMG 8/5/16					

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: EP4681

Print Analyst Name: Brittany Piercy

Analyst Signature: BP

Date: 07/11/2016

Columns: ZB-5MS® 30m x .25mm x .25µm

Method: 8270D/1625

Initial Cal. Method: MP4667 81

Injection Volume: 1.0µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1619358 9	DFTPP	50ppm
CM-5732	Internal Std.	4000ppm
1683536	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: [signature] Date: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	P105964	DFTPP			W	1					not using	51, 69↑ 442, 443↓
	105965	DFTPP			W	1						51, 127↑ 442, 443↓ retune IRB min
	105966	DFTPP			W	1						442↓ retune
	105967	DFTPP			W	1					ok	837AM.
	105968	CC466750		BVA	W	2					not using	recalibrate
	105969	ICC466150			W	3					ok	SV1619351 02C
	105970	IC4681-100			W	4					ok	
	105971	IC4681-80			W	5					ok	
	105972A	IC4681-25			W	6					ok	reran as "A" file normal
	105973	IC4681-10			W	7					ok	
	105974	IC4681-5			W	8					ok	
	105975	IC4681-2			W	9					ok	
	105976	IC4681-1			W	10					ok	
												BP 7/11/16

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.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4682

Print Analyst Name: Brittany Piercy

Date: 07/11/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM6193589	DFTPP	50ppm
CM-5732	Internal Std.	4000ppm
163634	DCM (Fisher)	—

Columns: ZB-5MS® 30m×.25mm×.25µm

Method 8270D/625

Initial Cal. Method MP4681

Injection Volume: 1.0µL

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: EQ Date: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	P105977	DFTPP			W	1					OK	3:24pm
	105978	IC4682-100		TCL42	W	2					OK	SV161935-3A
	105979	IC4682-80				3					OK	-3B
	105980	IC4682-50				4					OK	-32K
	105981	IC4682-25				5					OK	-3D
	105982	IC4682-10				6					OK	-3E
	105983	IC4682-5				7					OK	-3G
	105984	IC4682-2				8					OK	-3H
	105985	IC4682-1				9					OK	-3I
	105986	ICV4681-50		Acids		10					OK	-98
	105987	ICV4681-50		Aniline spike		11					OK	-86
	105988	ICV4681-50 / ICV4682 50		BN1		12					OK	-75
	105989	ICV4681-50		BN2		13					RR	SV151829-116 RR41L
	105990	ICV4681-50		ABN surr		14					OK	OP161712136
	105991	ICV4681-50		Benzidine 3rd		15					OK	SV151827-38F
	105992	ICV4681-50		HQ		16					OK	-98A 1040PM
		AW 7/12/16										AW

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.12

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E P4683

Print Analyst Name: Ashley Mayo

Date: 7/12/2016

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SU15187791	DFTPP	50ppm
CW5732	Internal Std.	4000ppm
1B3139	DCM Flushed	

Columns: 7135MS @30m x 0.5mm x 0.5µm

Method 8270D/625

Initial Cal. Method MP4681

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: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	P105993	DFTPP				1					not using	442 ↓ reinjected
	105994	DFTPP				1					↓	2APM.
	105995	ICV4681-50		BN2 2nd	W	2					RR	41 ↓ reinstall SU16193596
	105996	DFTPP AMO 7/12/16				1					not using	ion sat reinj
	105997	DFTPP				1					OK	419PM
	105998	ICV4681-50		BN2nd	W	2					OK	#99 #13 decline ↓ 7/12 Dim ↓ SU15829116.
												AMO

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.13

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4702

Print Analyst Name: Brittany Piercy

Analyst Signature: B.P.

Date: 07/26/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFTPP	50 ppm
-108	BNA	25 ppm
41-30	TCL42	25 ppm
BP 7/26	16	
CM-5732	ISTD	4000 ppm
153038	DCM (Fisher)	

Columns: ZB-5MS® 30m×.25mm×.25µm

Method 8270D/625

Initial Cal. Method MP4681

Injection Volume: 1.0µl

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:** 7/27/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	P106350	DFTPP			W	1					not using	10:05 Am
	106351	CC4681-25		BNA	W	2					↓	Areas ↓ / retune
	106352	DFTPP			W	1					not using	abundances dropped /
	106353	DFTPP			W	1					↓	lower error / remount
	106354	DFTPP			W	1					OK	12:09 pm
	106355	CC4681-25		BNA	W	2					OK	4,571 ↑ 29,48 ↓
	106356	CC4682-25		TCL42	W	3					OK	
	106357	BNA-verf. 1ppm			W	4					OK	SV161935-67.1
R	106358	JC23919-11	95516-1	ABNJTCL20+	W	5	2	+	/	/	NOT USING ~~OK~~	Not Needed
R	106359	JC24488-1	95784-1	BNJTCL20+	W	6		+	/	/	OK	
R	106360	-7		(		7		+	/	✓	OK	RR 1:10
R	106361	-10				8		+	/	✓	OK	
R	106362	OP95784-MS				9			/	✓	OK	
R	106363	-MSD				10			/	✓	OK	
R	106364	JC24468-3 ~~JC95~~	95774-1	ABTCL20+	W	11		+	/	✓	OK	
	106365	OP95827-mb1	95827-A1	AB8270	W	12			/	/	OK	ran after P106359
	106366	JC29622-3		(1:10)10X+ nap		13			✓	✓	OK	↓

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.14

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EP4702

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 7/26/16

Columns: ZB-5MS (30m x .25mm x .25µm)

Method: 8270D/625

Initial Cal. Method: MP4681

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 111	

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: 7/27/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	106367	OP95825-MB1	95825	AB8270+		14		+	/	/	OK	Hit for Bis2e
	106368	-BS1				15			/	/	OK	
	106369	-MS				16			/	/	OK	
	106370	-MSD				17			/	/	OK	
	106371	JC24431-1		AB24DMP+PN		18			/	/	OK	
	106372	-2		↓		19			/	/	OK	
	106373	-3		↓		20			/	/	OK	
	106374	JC24568-1		ABNSTCL20+		21		+	/	/	OK	
	106375	-2		↓		22		+	/	/	OK	
	106376	-3		↓		23		+	/	/	OK	12:03 AM
	106377	-4		↓		24					RR	Outside 12 Hours
	106378	-5		↓		25					↓	↓
	106379	-6		↓		26					↓	↓
												BP 07/27/16

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.

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Form: OR015-07
Rev. Date: 1/19/16

LOGBOOK ID: 6-1786

ABN Aqueous Extraction Logbook

Date Started: 7/26/16 Time Started: 0800
Date Finished: 7/26/16 Time Finished: 1500

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

BATCH # MS 95821	RACK# C-17
Extracted by:	NL VP AD MP KM
Concentrated by:	KM NL
Vialed by:	NL
Relinquished by:	
Accepted by:	
Supervisor Review:	7/26/17

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked
BS13	1mL	Skinner	1617121	50	1

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

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) <2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	4	Clear	1		
	BS1			DI H2O	1000	1	4	Yellow	1		
	JC24496-13 MS		2	Peach	500	1	4	Yellow	1		
	↓ MSD	↓	2	Peach	500	1	4	Yellow	1		
	BS	12 SIM		DI H2O	1000	1	4	Yellow	1		
	JC24549-20 MS		2	Yellow	500	1	4	Yellow	1		
	↓ MSD	↓	2	Yellow	500	1	4	Yellow	1		
1	JC24549-20	ABN	1	Yellow	1000	1	4	Yellow	1		
2	-21		1	Yellow	1000	1	4	Yellow	1		
3	-22		1	Yellow	1000	1	4	Yellow	1		
4	-23		2	Yellow	1000	1	4	L.Brown	1		
5	JC24491-1		2	L.Brown	1000	1	4	Yellow	1		
6	JC24496-13		1	Peach	910	1	4	Yellow	1		
7	-14		2	Peach	900	1	4	Clear	1		
8	-15		2	Peach	1000	1	4	L.Peach	1		
9	JC24563-1		1	Yellow	1000	1	4	Yellow	1		
10	JC24566-3		4	Clear	1000	1	4	Clear	1		
11	JC24606-1		2	Yellow	920	1	4	Yellow	1		
12	-2		2	Yellow	1000	1	4	Yellow	1		
13	JC24622-4		1	Clear	950	1	4	Clear	1		
+ 14	JC24577-1		2	Green	1000	1	4	Brown	1		
+ 15	-2		2	Black	1000	1	4	Brown	1		
+ 16	-3		1	L.Yellow	1000	1	4	Yellow	1		
+ 17	-4		2	Yellow	1000	1	4	Yellow	1		
+ 18	-5		2	L.Yellow	1000	1	4	Yellow	1		
+ 19	-6		2	Yellow	1000	1	4	Brown	1		
+ 20	BS13	Skinner		DI H2O	1000	1	4	Clear	1		

Comments: Okay to split HS/HSD

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	75.75	0.5, 0.1	74.75	NA
Waterbath Chiller (GPM)	F2	4	—	—	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1617042	50	1

WITNESS SIGN: VP SPIKE SIGN: NL

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	181935106	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	161935114	50	1
Base #2	161935113	50	1
Anilines	161935111	50	1
BSIM	1617041	50	1

WITNESS SIGN: VP SPIKE SIGN: NL

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	182484	Fisher	666

REAGENT	LOT #	BRAND
NaOH	157441	Fisher
H2SO4	4603644	Ricca
Sodium Sulfate	157477	Fisher
Glass Wool	05026	C&S
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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LOGBOOK ID: 6-1786

ABN Aqueous Extraction Logbook

Date Started: 7/25/16 Time Started: 1:00 pm
Date Finished: 7/25/16 Time Finished: 10:25 pm

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

BATCH # MS 958274	RACK# 14-1
Extracted by:	YB
Concentrated by:	YB
Vialed by:	YB
Relinquished by:	
Accepted by:	
Supervisor Review:	7/25/16

Special Client Spike Instructions

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

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) <2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
MB1	ABN		DI H2O	1000	1	5	clear	1		
BS1	25IM		DI H2O	1000	1	5	lt yellow	1		
JC24622-2 MS		4	yellow	920	1	5	lt yellow	1		
MSD		6	yellow	910	1	5	lt yellow	1		
BS										
MS										
MSD										
1 JC24622-1	ABN	1	yellow	~~1000~~	1	5	clear	1		(*)
2 -2		5	yellow	920	1	5	clear	1		
3 -3		1	yellow	890	1	5	lt yellow	1		
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

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

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking: 10day TAT

Weights/Volumes:

Required MS/MSD: is JC24622-2

Final Volume:

Other: 'A' sim batch only

Comments: (*) JC24622-1 sample volume = 910mL

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	7.3	76.76	0.8±0.1	75.76	N/A
Waterbath Chiller (GPM)	F2	0	—	—	2
NEVAP (32-38°C, LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16177042	50	1

WITNESS SIGN: SD SPIKE SIGN: RF

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	161935106	50	Acid:
Acid (for SIM) SV			A(SIM): 0.1
Base #1			
Base #2			
Anilines			
BSIM	16177041	1	1

WITNESS SIGN: SD SPIKE SIGN: RF

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	168534	Fisher	60x6

REAGENT	LOT #	BRAND
NaOH	157991	Fisher
H2SO4	46038999	Riccca
Sodium Sulfate	157477	Fisher
Glass Wool	05Q26	Lab
Filter Paper		
pH strips		

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

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