Apex Laboratories, LLC
6700 SW Sandburg St. Tigard, Oregon 97223
503.718.2323

Level IV Data Package for

Anchor QEA, LLC

Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores

Apex Laboratories Work Order #:

A0E0347

The information contained in this Data Package is intended solely for the purpose of validating client sample results submitted under the associated Chain of Custody(ies). An effort has been made to remove all traceable non-client data. Any incidental inclusion of non-client data is considered privileged and confidential information. The use of this information for any purpose other than data validation is strictly prohibited, and constitutes a breach of contract.

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard, OR 97223 phone 503-718-2323

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CLP-Like Forms
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Selected Volatile Organic Compounds by EPA 5035A/8260C
Benchsheet & Analysis Sequence Data
Batch 0050467
Sequence 0E13029 (A0E0347-01,02)

Calibration Data
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Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data
Batch 0050585
Sequence 0E18036 (A0E0347-01,02)

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Sequence 0C26027 (Cal ID A0C3001) DUALECD6F

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Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data
Batch 0050624
Sequence 0E18040 (A0E0347-01RE1)

Batch 0050699
Sequence 0E20035 (A0E0347-02RE2)

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Calibration Data
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Sequence 0E20067

Metals IFA/IFB Metals Internal Standards Recovery Summary
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A20E206 IFB
A0E0347 (I.S Tables)

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Analytical Case Narrative

APEX LABORATORIES, LLC
6700 SW Sandburg St Tigard, OR 97223 phone 503-718-2323

Analytical Case Narrative

Client: Anchor QEA, LLC Date: 07/15/2020
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Apex Work Order Number: A0E0347

This data package contains data associated with analysis of samples for the above referenced Apex work order numbers. The data package Table of Contents, along with the PDF bookmarks, allow for ease of navigation and location of items within the data deliverable.

The Sample Receipt Documentation section of this package contains sample receipt information, including sample temperature and condition of receipt documented on Cooler Receipt Form(s). Apex analyzed the samples by the methods indicated on the Chain of Custody. Any additional analyses requested are indicated on the Apex Work Order.

If any anomalies were encountered during analysis that could potentially impact data quality, sample results are qualified and/or a separate Case Narrative is included in the Analytical Report. Please refer to the Notes and Definition section of the Analytical Report(s) for Qualifier explanations, Conventions, and the Blank Policy.

Data represented in this package are in compliance with the referenced method(s), both technically and for completeness, for all conditions other than those stated above and/or noted by qualification of the reported data. The signature below verifies that the Laboratory Director or his designee has authorized release of this data package.



Estella Rieben,
Quality Systems Manager
Apex Laboratories, LLC

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Analytical Report

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Wednesday, June 10, 2020

Ryan Barth
Anchor QEA, LLC
6720 SW Macadam Ave. Suite 125
Portland, OR 97219

RE: A0E0347 - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A0E0347, which was received by the laboratory on 5/13/2020 at 10:05:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	0.5 degC	Cooler #2	1.4 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PDI-FB-2005121245	A0E0347-01	WQ	05/12/20 12:45	05/13/20 10:05
PDI-RB-2005121245	A0E0347-02	WQ	05/12/20 12:45	05/13/20 10:05

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-FB-2005121245 (A0E0347-01)				**Matrix: WQ**		**Batch: 0050467**		
Benzene	ND	0.100	0.200	ug/L	1	05/13/20 16:50	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	05/13/20 16:50	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	05/13/20 16:50	EPA 8260C	
m,p-Xylene	ND	0.500	1.00	ug/L	1	05/13/20 16:50	EPA 8260C	
o-Xylene	ND	0.250	0.500	ug/L	1	05/13/20 16:50	EPA 8260C	
Chlorobenzene	ND	0.250	0.500	ug/L	1	05/13/20 16:50	EPA 8260C	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	05/13/20 16:50	EPA 8260C	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	05/13/20 16:50	EPA 8260C	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	05/13/20 16:50	EPA 8260C	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	05/13/20 16:50	EPA 8260C	
Vinyl chloride	ND	0.200	0.400	ug/L	1	05/13/20 16:50	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*108 %*	*Limits: 80-120 %*	*1*	*05/13/20 16:50*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*05/13/20 16:50*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*05/13/20 16:50*	*EPA 8260C*	
PDI-RB-2005121245 (A0E0347-02)				**Matrix: WQ**		**Batch: 0050467**		
Benzene	ND	0.100	0.200	ug/L	1	05/13/20 17:17	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	05/13/20 17:17	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	05/13/20 17:17	EPA 8260C	
m,p-Xylene	ND	0.500	1.00	ug/L	1	05/13/20 17:17	EPA 8260C	
o-Xylene	ND	0.250	0.500	ug/L	1	05/13/20 17:17	EPA 8260C	
Chlorobenzene	ND	0.250	0.500	ug/L	1	05/13/20 17:17	EPA 8260C	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	05/13/20 17:17	EPA 8260C	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	05/13/20 17:17	EPA 8260C	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	05/13/20 17:17	EPA 8260C	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	05/13/20 17:17	EPA 8260C	
Vinyl chloride	ND	0.200	0.400	ug/L	1	05/13/20 17:17	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*110 %*	*Limits: 80-120 %*	*1*	*05/13/20 17:17*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*05/13/20 17:17*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*05/13/20 17:17*	*EPA 8260C*	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-FB-2005121245 (A0E0347-01)				**Matrix: WQ**		**Batch: 0050585**		**C-07**
Aroclor 1016	ND	0.0187	0.0374	ug/L	1	05/18/20 17:52	EPA 8082A	
Aroclor 1221	ND	0.0187	0.0374	ug/L	1	05/18/20 17:52	EPA 8082A	
Aroclor 1232	ND	0.0187	0.0374	ug/L	1	05/18/20 17:52	EPA 8082A	
Aroclor 1242	ND	0.0187	0.0374	ug/L	1	05/18/20 17:52	EPA 8082A	
Aroclor 1248	ND	0.0187	0.0374	ug/L	1	05/18/20 17:52	EPA 8082A	
Aroclor 1254	ND	0.0187	0.0374	ug/L	1	05/18/20 17:52	EPA 8082A	
Aroclor 1260	ND	0.0187	0.0374	ug/L	1	05/18/20 17:52	EPA 8082A	
Aroclor 1262	ND	0.0187	0.0374	ug/L	1	05/18/20 17:52	EPA 8082A	
Aroclor 1268	ND	0.0187	0.0374	ug/L	1	05/18/20 17:52	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 105 %*		*Limits: 40-135 %*	*1*	*05/18/20 17:52*	*EPA 8082A*	
PDI-RB-2005121245 (A0E0347-02)				**Matrix: WQ**		**Batch: 0050585**		**C-07**
Aroclor 1016	ND	0.0189	0.0377	ug/L	1	05/18/20 18:10	EPA 8082A	
Aroclor 1221	ND	0.0189	0.0377	ug/L	1	05/18/20 18:10	EPA 8082A	
Aroclor 1232	ND	0.0189	0.0377	ug/L	1	05/18/20 18:10	EPA 8082A	
Aroclor 1242	ND	0.0189	0.0377	ug/L	1	05/18/20 18:10	EPA 8082A	
Aroclor 1248	ND	0.0189	0.0377	ug/L	1	05/18/20 18:10	EPA 8082A	
Aroclor 1254	ND	0.0189	0.0377	ug/L	1	05/18/20 18:10	EPA 8082A	
Aroclor 1260	ND	0.0189	0.0377	ug/L	1	05/18/20 18:10	EPA 8082A	
Aroclor 1262	ND	0.0189	0.0377	ug/L	1	05/18/20 18:10	EPA 8082A	
Aroclor 1268	ND	0.0189	0.0377	ug/L	1	05/18/20 18:10	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 101 %*		*Limits: 40-135 %*	*1*	*05/18/20 18:10*	*EPA 8082A*	

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Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-FB-2005121245 (A0E0347-01)				**Matrix: WQ**		**Batch: 0050653**		
2,4'-DDD	ND	0.00472	0.00943	ug/L	1	05/28/20 16:50	EPA 8081B	
2,4'-DDE	ND	0.00472	0.00943	ug/L	1	05/28/20 16:50	EPA 8081B	
2,4'-DDT	ND	0.00472	0.00943	ug/L	1	05/28/20 16:50	EPA 8081B	
4,4'-DDD	ND	0.00472	0.00943	ug/L	1	05/28/20 16:50	EPA 8081B	
4,4'-DDE	ND	0.00472	0.00943	ug/L	1	05/28/20 16:50	EPA 8081B	
4,4'-DDT	ND	0.00472	0.00943	ug/L	1	05/28/20 16:50	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*60 %*	*Limits: 25-140 %*	*1*	*05/28/20 16:50*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*51 %*	*30-135 %*	*1*	*05/28/20 16:50*	*EPA 8081B*	
PDI-RB-2005121245 (A0E0347-02)				**Matrix: WQ**		**Batch: 0050653**		
2,4'-DDD	ND	0.00472	0.00943	ug/L	1	05/28/20 17:07	EPA 8081B	
2,4'-DDE	ND	0.00472	0.00943	ug/L	1	05/28/20 17:07	EPA 8081B	
2,4'-DDT	ND	0.00472	0.00943	ug/L	1	05/28/20 17:07	EPA 8081B	
4,4'-DDD	ND	0.00472	0.00943	ug/L	1	05/28/20 17:07	EPA 8081B	
4,4'-DDE	ND	0.00472	0.00943	ug/L	1	05/28/20 17:07	EPA 8081B	
4,4'-DDT	ND	0.00472	0.00943	ug/L	1	05/28/20 17:07	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*63 %*	*Limits: 25-140 %*	*1*	*05/28/20 17:07*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*55 %*	*30-135 %*	*1*	*05/28/20 17:07*	*EPA 8081B*	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-FB-2005121245 (A0E0347-01RE1)				**Matrix: WQ**		**Batch: 0050624**		
Acenaphthene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Acenaphthylene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Anthracene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Benz(a)anthracene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Benzo(a)pyrene	ND	0.0142	0.0283	ug/L	1	05/18/20 17:08	EPA 8270D	
Benzo(b)fluoranthene	ND	0.0142	0.0283	ug/L	1	05/18/20 17:08	EPA 8270D	
Benzo(k)fluoranthene	ND	0.0142	0.0283	ug/L	1	05/18/20 17:08	EPA 8270D	
Benzo(g,h,i)perylene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Chrysene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Dibenz(a,h)anthracene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Fluoranthene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Fluorene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Indeno(1,2,3-cd)pyrene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
2-Methylnaphthalene	ND	0.0189	0.0377	ug/L	1	05/18/20 17:08	EPA 8270D	
Naphthalene	ND	0.0189	0.0377	ug/L	1	05/18/20 17:08	EPA 8270D	
Phenanthrene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Pyrene	ND	0.00943	0.0189	ug/L	1	05/18/20 17:08	EPA 8270D	
Bis(2-ethylhexyl)phthalate	ND	0.189	0.377	ug/L	1	05/18/20 17:08	EPA 8270D	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*56 %*	*Limits: 44-120 %*	*1*	*05/18/20 17:08*	*EPA 8270D*	*Q-41*
2-Fluorobiphenyl (Surr)			*41 %*	*44-120 %*	*1*	*05/18/20 17:08*	*EPA 8270D*	*S-03*
Phenol-d6 (Surr)			*16 %*	*10-133 %*	*1*	*05/18/20 17:08*	*EPA 8270D*	
p-Terphenyl-d14 (Surr)			*77 %*	*50-134 %*	*1*	*05/18/20 17:08*	*EPA 8270D*	
2-Fluorophenol (Surr)			*22 %*	*19-120 %*	*1*	*05/18/20 17:08*	*EPA 8270D*	
2,4,6-Tribromophenol (Surr)			*62 %*	*43-140 %*	*1*	*05/18/20 17:08*	*EPA 8270D*	
PDI-RB-2005121245 (A0E0347-02RE2)				**Matrix: WQ**		**Batch: 0050699**		
Acenaphthene	ND	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	
Acenaphthylene	ND	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	
Anthracene	ND	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	
Benz(a)anthracene	**0.0251**	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	
Benzo(a)pyrene	**0.0214**	0.0144	0.0288	ug/L	1	05/20/20 13:42	EPA 8270D	**J**
Benzo(b)fluoranthene	**0.0268**	0.0144	0.0288	ug/L	1	05/20/20 13:42	EPA 8270D	**J**
Benzo(k)fluoranthene	**0.0151**	0.0144	0.0288	ug/L	1	05/20/20 13:42	EPA 8270D	**J**
Benzo(g,h,i)perylene	ND	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-RB-2005121245 (A0E0347-02RE2)				**Matrix: WQ**		**Batch: 0050699**		
Chrysene	**0.0259**	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	
Dibenz(a,h)anthracene	ND	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	
Fluoranthene	**0.0913**	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	
Fluorene	ND	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	
Indeno(1,2,3-cd)pyrene	ND	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	
2-Methylnaphthalene	ND	0.0192	0.0385	ug/L	1	05/20/20 13:42	EPA 8270D	
Naphthalene	**0.0236**	0.0192	0.0385	ug/L	1	05/20/20 13:42	EPA 8270D	**J**
Phenanthrene	**0.0151**	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	**J**
Pyrene	**0.111**	0.00962	0.0192	ug/L	1	05/20/20 13:42	EPA 8270D	
Bis(2-ethylhexyl)phthalate	ND	0.192	0.385	ug/L	1	05/20/20 13:42	EPA 8270D	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*29 %*	*Limits: 44-120 %*	*1*	*05/20/20 13:42*	*EPA 8270D*	*S-03*
2-Fluorobiphenyl (Surr)			*27 %*	*44-120 %*	*1*	*05/20/20 13:42*	*EPA 8270D*	*S-03*
Phenol-d6 (Surr)			*10 %*	*10-133 %*	*1*	*05/20/20 13:42*	*EPA 8270D*	
p-Terphenyl-d14 (Surr)			*58 %*	*50-134 %*	*1*	*05/20/20 13:42*	*EPA 8270D*	
2-Fluorophenol (Surr)			*15 %*	*19-120 %*	*1*	*05/20/20 13:42*	*EPA 8270D*	*S-03*
2,4,6-Tribromophenol (Surr)			*72 %*	*43-140 %*	*1*	*05/20/20 13:42*	*EPA 8270D*	*Q-41*

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020A (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-FB-2005121245 (A0E0347-01)				**Matrix: WQ**				
Batch: 0050749								
Arsenic	ND	0.500	1.00	ug/L	1	05/21/20 02:33	EPA 6020A	
PDI-RB-2005121245 (A0E0347-02)				**Matrix: WQ**				
Batch: 0050749								
Arsenic	ND	0.500	1.00	ug/L	1	05/21/20 02:56	EPA 6020A	

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Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050467 - EPA 5030B												**Water**
Blank (0050467-BLK1)			Prepared: 05/13/20 07:30 Analyzed: 05/13/20 09:35									
EPA 8260C												
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 108 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*99 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*102 %*		*80-120 %*			*"*				
LCS (0050467-BS1)			Prepared: 05/13/20 07:30 Analyzed: 05/13/20 08:41									
EPA 8260C												
Benzene	20.9	0.100	0.200	ug/L	1	20.0	---	104	80-120%	---	---	
Toluene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Ethylbenzene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
m,p-Xylene	40.1	0.500	1.00	ug/L	1	40.0	---	100	80-120%	---	---	
o-Xylene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Chlorobenzene	19.9	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,1-Dichloroethene	20.1	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
cis-1,2-Dichloroethene	19.7	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
Tetrachloroethene (PCE)	21.4	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
Trichloroethene (TCE)	19.2	0.200	0.400	ug/L	1	20.0	---	96	80-120%	---	---	
Vinyl chloride	18.0	0.200	0.400	ug/L	1	20.0	---	90	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 99 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*96 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*96 %*		*80-120 %*			*"*				
Duplicate (0050467-DUP1)			Prepared: 05/13/20 09:21 Analyzed: 05/13/20 10:57									

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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050467 - EPA 5030B							**Water**					
Duplicate (0050467-DUP1)			Prepared: 05/13/20 09:21		Analyzed: 05/13/20 10:57							
QC Source Sample: Non-SDG (A0E0326-01)												
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 107 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*101 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*102 %*		*80-120 %*			*"*				
Matrix Spike (0050467-MS1)			Prepared: 05/13/20 09:21		Analyzed: 05/13/20 12:45							
QC Source Sample: Non-SDG (A0E0328-02)												
EPA 8260C												
Benzene	22.2	0.100	0.200	ug/L	1	20.0	ND	111	79-120%	---	---	
Toluene	20.8	0.500	1.00	ug/L	1	20.0	ND	104	80-121%	---	---	
Ethylbenzene	22.1	0.250	0.500	ug/L	1	20.0	ND	110	79-121%	---	---	
m,p-Xylene	42.6	0.500	1.00	ug/L	1	40.0	ND	106	80-121%	---	---	
o-Xylene	20.3	0.250	0.500	ug/L	1	20.0	ND	102	78-122%	---	---	
Chlorobenzene	20.9	0.250	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
1,1-Dichloroethene	21.9	0.200	0.400	ug/L	1	20.0	ND	109	71-131%	---	---	
cis-1,2-Dichloroethene	21.1	0.200	0.400	ug/L	1	20.0	ND	105	78-123%	---	---	
Tetrachloroethene (PCE)	22.8	0.200	0.400	ug/L	1	20.0	ND	114	74-129%	---	---	
Trichloroethene (TCE)	19.5	0.200	0.400	ug/L	1	20.0	ND	97	79-123%	---	---	
Vinyl chloride	19.6	0.200	0.400	ug/L	1	20.0	ND	98	58-137%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 100 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*97 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*94 %*		*80-120 %*			*"*				

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050585 - EPA 3510C (Neutral pH)							**Water**					
Blank (0050585-BLK1)			Prepared: 05/15/20 10:24		Analyzed: 05/18/20 16:59							**C-07**
EPA 8082A												
Aroclor 1016	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Aroclor 1260	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Aroclor 1262	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Aroclor 1268	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 104 %*		*Limits: 40-135 %*			*Dilution: 1x*				
LCS (0050585-BS1)			Prepared: 05/15/20 10:24		Analyzed: 05/18/20 17:17							**C-07**
EPA 8082A												
Aroclor 1016	2.28	0.0200	0.0400	ug/L	1	2.50	---	91	46-129%	---	---	
Aroclor 1260	2.57	0.0200	0.0400	ug/L	1	2.50	---	103	45-134%	---	---	Q-41
Surr: Decachlorobiphenyl (Surr)			*Recovery: 106 %*		*Limits: 40-135 %*			*Dilution: 1x*				
LCS Dup (0050585-BSD1)			Prepared: 05/15/20 10:24		Analyzed: 05/18/20 17:35							**C-07, Q-19**
EPA 8082A												
Aroclor 1016	2.40	0.0200	0.0400	ug/L	1	2.50	---	96	46-129%	5	30%	
Aroclor 1260	2.77	0.0200	0.0400	ug/L	1	2.50	---	111	45-134%	7	30%	Q-41
Surr: Decachlorobiphenyl (Surr)			*Recovery: 108 %*		*Limits: 40-135 %*			*Dilution: 1x*				

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050653 - EPA 3510C (Neutral pH)							**Water**					
Blank (0050653-BLK1)			Prepared: 05/18/20 14:41		Analyzed: 05/28/20 15:58							
EPA 8081B												
2,4'-DDD	ND	0.00455	0.00909	ug/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.00455	0.00909	ug/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.00455	0.00909	ug/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.00455	0.00909	ug/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.00455	0.00909	ug/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.00455	0.00909	ug/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 45 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*58 %*		*30-135 %*				*"*			
LCS (0050653-BS1)			Prepared: 05/18/20 14:41		Analyzed: 05/28/20 16:15							
EPA 8081B												
2,4'-DDD	0.483	0.00500	0.0100	ug/L	1	0.500	---	97	60-140%	---	---	
2,4'-DDE	0.436	0.00500	0.0100	ug/L	1	0.500	---	87	60-140%	---	---	
2,4'-DDT	0.530	0.00500	0.0100	ug/L	1	0.500	---	106	60-140%	---	---	
4,4'-DDD	0.466	0.00500	0.0100	ug/L	1	0.500	---	93	60-140%	---	---	
4,4'-DDE	0.459	0.00500	0.0100	ug/L	1	0.500	---	92	60-140%	---	---	
4,4'-DDT	0.449	0.00500	0.0100	ug/L	1	0.500	---	90	60-140%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 51 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*58 %*		*30-135 %*				*"*			
LCS Dup (0050653-BSD1)			Prepared: 05/18/20 14:41		Analyzed: 05/28/20 16:33							**Q-19**
EPA 8081B												
2,4'-DDD	0.490	0.00500	0.0100	ug/L	1	0.500	---	98	60-140%	1	30%	
2,4'-DDE	0.475	0.00500	0.0100	ug/L	1	0.500	---	95	60-140%	8	30%	
2,4'-DDT	0.521	0.00500	0.0100	ug/L	1	0.500	---	104	60-140%	2	30%	
4,4'-DDD	0.462	0.00500	0.0100	ug/L	1	0.500	---	92	60-140%	1	30%	
4,4'-DDE	0.478	0.00500	0.0100	ug/L	1	0.500	---	96	60-140%	4	30%	
4,4'-DDT	0.437	0.00500	0.0100	ug/L	1	0.500	---	87	60-140%	3	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 71 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*58 %*		*30-135 %*				*"*			

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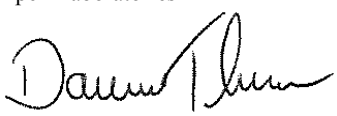
Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050512 - EPA 3510C (Acid Extraction)							**Water**					
Blank (0050512-BLK1)			Prepared: 05/14/20 06:57		Analyzed: 05/14/20 13:54							
EPA 8270D												
Acenaphthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Naphthalene	**0.0228**	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	B-02, J
Phenanthrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Phenol	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050512 - EPA 3510C (Acid Extraction)							**Water**					
Blank (0050512-BLK1)			Prepared: 05/14/20 06:57 Analyzed: 05/14/20 13:54									
2,3,5,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 71 %*	*Limits: 44-120 %*			*Dilution: 1x*					
2-Fluorobiphenyl (Surr)			*61 %*	*44-120 %*			*"*					
Phenol-d6 (Surr)			*22 %*	*10-133 %*			*"*					
p-Terphenyl-d14 (Surr)			*81 %*	*50-134 %*			*"*					
2-Fluorophenol (Surr)			*38 %*	*19-120 %*			*"*					
2,4,6-Tribromophenol (Surr)			*74 %*	*43-140 %*			*"*					
LCS (0050512-BS1)			Prepared: 05/14/20 06:57 Analyzed: 05/14/20 14:31									
EPA 8270D												
Acenaphthene	2.72	0.0200	0.0400	ug/L	2	4.00	---	68	47-122%	---	---	
Acenaphthylene	2.88	0.0200	0.0400	ug/L	2	4.00	---	72	41-130%	---	---	
Anthracene	3.14	0.0200	0.0400	ug/L	2	4.00	---	78	57-123%	---	---	
Benz(a)anthracene	3.33	0.0200	0.0400	ug/L	2	4.00	---	83	58-125%	---	---	
Benzo(a)pyrene	3.52	0.0300	0.0600	ug/L	2	4.00	---	88	54-128%	---	---	
Benzo(b)fluoranthene	3.48	0.0300	0.0600	ug/L	2	4.00	---	87	53-131%	---	---	
Benzo(k)fluoranthene	3.49	0.0300	0.0600	ug/L	2	4.00	---	87	57-129%	---	---	
Benzo(g,h,i)perylene	3.59	0.0200	0.0400	ug/L	2	4.00	---	90	50-134%	---	---	
Chrysene	3.33	0.0200	0.0400	ug/L	2	4.00	---	83	59-123%	---	---	
Dibenz(a,h)anthracene	3.36	0.0200	0.0400	ug/L	2	4.00	---	84	51-134%	---	---	
Fluoranthene	3.31	0.0200	0.0400	ug/L	2	4.00	---	83	57-128%	---	---	
Fluorene	3.02	0.0200	0.0400	ug/L	2	4.00	---	76	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.22	0.0200	0.0400	ug/L	2	4.00	---	81	52-134%	---	---	
1-Methylnaphthalene	2.67	0.0400	0.0800	ug/L	2	4.00	---	67	41-120%	---	---	
2-Methylnaphthalene	2.63	0.0400	0.0800	ug/L	2	4.00	---	66	40-121%	---	---	
Naphthalene	2.51	0.0400	0.0800	ug/L	2	4.00	---	63	40-121%	---	---	B-02

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Darwin Thomas, Business Development Director

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050512 - EPA 3510C (Acid Extraction)							**Water**					
LCS (0050512-BS1)			Prepared: 05/14/20 06:57		Analyzed: 05/14/20 14:31							
Phenanthrene	3.00	0.0200	0.0400	ug/L	2	4.00	---	75	59-120%	---	---	
Pyrene	3.31	0.0200	0.0400	ug/L	2	4.00	---	83	57-126%	---	---	
Carbazole	3.78	0.0300	0.0600	ug/L	2	4.00	---	94	60-122%	---	---	
Dibenzofuran	2.91	0.0200	0.0400	ug/L	2	4.00	---	73	53-120%	---	---	
4-Chloro-3-methylphenol	3.21	0.200	0.400	ug/L	2	4.00	---	80	52-120%	---	---	
2-Chlorophenol	2.65	0.100	0.200	ug/L	2	4.00	---	66	38-120%	---	---	
2,4-Dichlorophenol	2.85	0.100	0.200	ug/L	2	4.00	---	71	47-121%	---	---	
2,4-Dimethylphenol	2.42	0.100	0.200	ug/L	2	4.00	---	60	31-124%	---	---	
2,4-Dinitrophenol	3.70	0.500	1.00	ug/L	2	4.00	---	93	23-143%	---	---	
4,6-Dinitro-2-methylphenol	3.38	0.500	1.00	ug/L	2	4.00	---	85	44-137%	---	---	
2-Methylphenol	2.44	0.0500	0.100	ug/L	2	4.00	---	61	30-120%	---	---	
3+4-Methylphenol(s)	2.17	0.0500	0.100	ug/L	2	4.00	---	54	29-120%	---	---	
2-Nitrophenol	2.75	0.200	0.400	ug/L	2	4.00	---	69	47-123%	---	---	Q-41
4-Nitrophenol	1.05	0.200	0.400	ug/L	2	4.00	---	26	10-120%	---	---	
Pentachlorophenol (PCP)	3.50	0.200	0.400	ug/L	2	4.00	---	88	35-138%	---	---	
Phenol	0.966	0.400	0.800	ug/L	2	4.00	---	24	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	3.24	0.100	0.200	ug/L	2	4.00	---	81	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.29	0.100	0.200	ug/L	2	4.00	---	82	50-121%	---	---	
2,4,5-Trichlorophenol	3.21	0.100	0.200	ug/L	2	4.00	---	80	53-123%	---	---	
2,4,6-Trichlorophenol	3.16	0.100	0.200	ug/L	2	4.00	---	79	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	3.70	0.400	0.800	ug/L	2	4.00	---	92	55-135%	---	---	
Butyl benzyl phthalate	3.69	0.400	0.800	ug/L	2	4.00	---	92	53-134%	---	---	
Diethylphthalate	3.19	0.400	0.800	ug/L	2	4.00	---	80	56-125%	---	---	
Dimethylphthalate	3.19	0.400	0.800	ug/L	2	4.00	---	80	45-127%	---	---	
Di-n-butylphthalate	3.49	0.400	0.800	ug/L	2	4.00	---	87	59-127%	---	---	
Di-n-octyl phthalate	3.64	0.400	0.800	ug/L	2	4.00	---	91	51-140%	---	---	

Surr: Nitrobenzene-d5 (Surr)	*Recovery: 73 %*	*Limits: 44-120 %*	*Dilution: 2x*	
2-Fluorobiphenyl (Surr)	*63 %*	*44-120 %*	*"*	
Phenol-d6 (Surr)	*22 %*	*10-133 %*	*"*	
p-Terphenyl-d14 (Surr)	*83 %*	*50-134 %*	*"*	
2-Fluorophenol (Surr)	*34 %*	*19-120 %*	*"*	
2,4,6-Tribromophenol (Surr)	*80 %*	*43-140 %*	*"*	

LCS Dup (0050512-BSD1) Prepared: 05/14/20 06:57 Analyzed: 05/14/20 15:08 **Q-19**

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project:	**Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A0E0347 - 06 10 20 0829

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050512 - EPA 3510C (Acid Extraction)							**Water**					
LCS Dup (0050512-BSD1)			Prepared: 05/14/20 06:57		Analyzed: 05/14/20 15:08							**Q-19**
EPA 8270D												
Acenaphthene	2.89	0.0200	0.0400	ug/L	2	4.00	---	72	47-122%	6	30%	
Acenaphthylene	2.92	0.0200	0.0400	ug/L	2	4.00	---	73	41-130%	1	30%	
Anthracene	3.29	0.0200	0.0400	ug/L	2	4.00	---	82	57-123%	5	30%	
Benz(a)anthracene	3.49	0.0200	0.0400	ug/L	2	4.00	---	87	58-125%	5	30%	
Benzo(a)pyrene	3.77	0.0300	0.0600	ug/L	2	4.00	---	94	54-128%	7	30%	
Benzo(b)fluoranthene	3.66	0.0300	0.0600	ug/L	2	4.00	---	92	53-131%	5	30%	
Benzo(k)fluoranthene	3.68	0.0300	0.0600	ug/L	2	4.00	---	92	57-129%	5	30%	
Benzo(g,h,i)perylene	3.72	0.0200	0.0400	ug/L	2	4.00	---	93	50-134%	4	30%	
Chrysene	3.58	0.0200	0.0400	ug/L	2	4.00	---	89	59-123%	7	30%	
Dibenz(a,h)anthracene	3.62	0.0200	0.0400	ug/L	2	4.00	---	90	51-134%	7	30%	
Fluoranthene	3.39	0.0200	0.0400	ug/L	2	4.00	---	85	57-128%	2	30%	
Fluorene	3.03	0.0200	0.0400	ug/L	2	4.00	---	76	52-124%	0.4	30%	
Indeno(1,2,3-cd)pyrene	3.41	0.0200	0.0400	ug/L	2	4.00	---	85	52-134%	5	30%	
1-Methylnaphthalene	2.56	0.0400	0.0800	ug/L	2	4.00	---	64	41-120%	4	30%	
2-Methylnaphthalene	2.57	0.0400	0.0800	ug/L	2	4.00	---	64	40-121%	2	30%	
Naphthalene	2.48	0.0400	0.0800	ug/L	2	4.00	---	62	40-121%	1	30%	B-02
Phenanthrene	3.14	0.0200	0.0400	ug/L	2	4.00	---	78	59-120%	5	30%	
Pyrene	3.43	0.0200	0.0400	ug/L	2	4.00	---	86	57-126%	4	30%	
Carbazole	3.83	0.0300	0.0600	ug/L	2	4.00	---	96	60-122%	1	30%	
Dibenzofuran	2.96	0.0200	0.0400	ug/L	2	4.00	---	74	53-120%	2	30%	
4-Chloro-3-methylphenol	3.00	0.200	0.400	ug/L	2	4.00	---	75	52-120%	7	30%	
2-Chlorophenol	2.48	0.100	0.200	ug/L	2	4.00	---	62	38-120%	6	30%	
2,4-Dichlorophenol	2.95	0.100	0.200	ug/L	2	4.00	---	74	47-121%	3	30%	
2,4-Dimethylphenol	2.40	0.100	0.200	ug/L	2	4.00	---	60	31-124%	0.8	30%	
2,4-Dinitrophenol	3.83	0.500	1.00	ug/L	2	4.00	---	96	23-143%	3	30%	
4,6-Dinitro-2-methylphenol	3.57	0.500	1.00	ug/L	2	4.00	---	89	44-137%	5	30%	
2-Methylphenol	2.22	0.0500	0.100	ug/L	2	4.00	---	55	30-120%	10	30%	
3+4-Methylphenol(s)	2.04	0.0500	0.100	ug/L	2	4.00	---	51	29-120%	6	30%	
2-Nitrophenol	2.94	0.200	0.400	ug/L	2	4.00	---	73	47-123%	6	30%	Q-41
4-Nitrophenol	1.06	0.200	0.400	ug/L	2	4.00	---	27	10-120%	1	30%	
Pentachlorophenol (PCP)	3.60	0.200	0.400	ug/L	2	4.00	---	90	35-138%	3	30%	
Phenol	0.927	0.400	0.800	ug/L	2	4.00	---	23	10-120%	4	30%	
2,3,4,6-Tetrachlorophenol	3.29	0.100	0.200	ug/L	2	4.00	---	82	50-128%	2	30%	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050512 - EPA 3510C (Acid Extraction)							**Water**					
LCS Dup (0050512-BSD1)			Prepared: 05/14/20 06:57		Analyzed: 05/14/20 15:08							**Q-19**
2,3,5,6-Tetrachlorophenol	3.37	0.100	0.200	ug/L	2	4.00	---	84	50-121%	2	30%	
2,4,5-Trichlorophenol	3.17	0.100	0.200	ug/L	2	4.00	---	79	53-123%	1	30%	
2,4,6-Trichlorophenol	3.25	0.100	0.200	ug/L	2	4.00	---	81	50-125%	3	30%	
Bis(2-ethylhexyl)phthalate	3.84	0.400	0.800	ug/L	2	4.00	---	96	55-135%	4	30%	
Butyl benzyl phthalate	3.83	0.400	0.800	ug/L	2	4.00	---	96	53-134%	4	30%	
Diethylphthalate	3.26	0.400	0.800	ug/L	2	4.00	---	82	56-125%	2	30%	
Dimethylphthalate	3.29	0.400	0.800	ug/L	2	4.00	---	82	45-127%	3	30%	
Di-n-butylphthalate	3.58	0.400	0.800	ug/L	2	4.00	---	90	59-127%	3	30%	
Di-n-octyl phthalate	3.66	0.400	0.800	ug/L	2	4.00	---	91	51-140%	0.6	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 68 %*		*Limits: 44-120 %*			*Dilution: 2x*				
2-Fluorobiphenyl (Surr)			*63 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*21 %*		*10-133 %*			*"*				
p-Terphenyl-d14 (Surr)			*85 %*		*50-134 %*			*"*				
2-Fluorophenol (Surr)			*32 %*		*19-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*84 %*		*43-140 %*			*"*				

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: **OR100062**

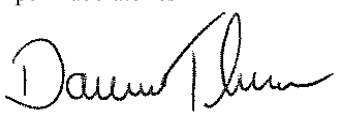
Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050624 - EPA 3510C (Acid Extraction)							**Water**					
Blank (0050624-BLK2)			Prepared: 05/18/20 09:39 Analyzed: 05/18/20 14:04									
EPA 8270D												
Acenaphthene	**0.0116**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B-02, J
Acenaphthylene	**0.0106**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B-02, J
Anthracene	**0.0144**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B-02, J
Benz(a)anthracene	**0.0305**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B
Benzo(a)pyrene	**0.0538**	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	B
Benzo(b)fluoranthene	**0.0435**	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	B
Benzo(k)fluoranthene	**0.0180**	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	B-02, J
Benzo(g,h,i)perylene	**0.0352**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B
Chrysene	**0.0361**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B
Dibenz(a,h)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluoranthene	**0.0678**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B
Fluorene	**0.0111**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B-02, J
Indeno(1,2,3-cd)pyrene	**0.0297**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B
1-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Phenanthrene	**0.0845**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B
Pyrene	**0.0896**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B
Carbazole	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Phenol	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050624 - EPA 3510C (Acid Extraction)							**Water**					
Blank (0050624-BLK2)			Prepared: 05/18/20 09:39 Analyzed: 05/18/20 14:04									
2,3,5,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 87 %*	*Limits: 44-120 %*			*Dilution: 1x*					Q-41
2-Fluorobiphenyl (Surr)			*73 %*	*44-120 %*			*"*					
Phenol-d6 (Surr)			*28 %*	*10-133 %*			*"*					
p-Terphenyl-d14 (Surr)			*89 %*	*50-134 %*			*"*					
2-Fluorophenol (Surr)			*45 %*	*19-120 %*			*"*					
2,4,6-Tribromophenol (Surr)			*84 %*	*43-140 %*			*"*					
LCS (0050624-BS2)			Prepared: 05/18/20 09:39 Analyzed: 05/18/20 14:41									
EPA 8270D												
Acenaphthene	3.57	0.0200	0.0400	ug/L	2	4.00	---	89	47-122%	---	---	B-02
Acenaphthylene	3.68	0.0200	0.0400	ug/L	2	4.00	---	92	41-130%	---	---	B-02
Anthracene	3.80	0.0200	0.0400	ug/L	2	4.00	---	95	57-123%	---	---	B-02
Benz(a)anthracene	3.81	0.0200	0.0400	ug/L	2	4.00	---	95	58-125%	---	---	B
Benzo(a)pyrene	4.15	0.0300	0.0600	ug/L	2	4.00	---	104	54-128%	---	---	B
Benzo(b)fluoranthene	4.06	0.0300	0.0600	ug/L	2	4.00	---	101	53-131%	---	---	B
Benzo(k)fluoranthene	4.04	0.0300	0.0600	ug/L	2	4.00	---	101	57-129%	---	---	B-02
Benzo(g,h,i)perylene	4.00	0.0200	0.0400	ug/L	2	4.00	---	100	50-134%	---	---	B
Chrysene	3.89	0.0200	0.0400	ug/L	2	4.00	---	97	59-123%	---	---	B
Dibenz(a,h)anthracene	3.96	0.0200	0.0400	ug/L	2	4.00	---	99	51-134%	---	---	
Fluoranthene	3.92	0.0200	0.0400	ug/L	2	4.00	---	98	57-128%	---	---	B
Fluorene	3.69	0.0200	0.0400	ug/L	2	4.00	---	92	52-124%	---	---	B-02
Indeno(1,2,3-cd)pyrene	3.74	0.0200	0.0400	ug/L	2	4.00	---	93	52-134%	---	---	B
1-Methylnaphthalene	3.54	0.0400	0.0800	ug/L	2	4.00	---	88	41-120%	---	---	
2-Methylnaphthalene	3.53	0.0400	0.0800	ug/L	2	4.00	---	88	40-121%	---	---	
Naphthalene	3.44	0.0400	0.0800	ug/L	2	4.00	---	86	40-121%	---	---	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050624 - EPA 3510C (Acid Extraction)							**Water**					
LCS (0050624-BS2)			Prepared: 05/18/20 09:39 Analyzed: 05/18/20 14:41									
Phenanthrene	3.59	0.0200	0.0400	ug/L	2	4.00	---	90	59-120%	---	---	B
Pyrene	3.85	0.0200	0.0400	ug/L	2	4.00	---	96	57-126%	---	---	B
Carbazole	5.09	0.0300	0.0600	ug/L	2	4.00	---	**127**	**60-122%**	---	---	Q-29
Dibenzofuran	3.56	0.0200	0.0400	ug/L	2	4.00	---	89	53-120%	---	---	
4-Chloro-3-methylphenol	3.85	0.200	0.400	ug/L	2	4.00	---	96	52-120%	---	---	
2-Chlorophenol	3.45	0.100	0.200	ug/L	2	4.00	---	86	38-120%	---	---	
2,4-Dichlorophenol	3.76	0.100	0.200	ug/L	2	4.00	---	94	47-121%	---	---	
2,4-Dimethylphenol	3.36	0.100	0.200	ug/L	2	4.00	---	84	31-124%	---	---	
2,4-Dinitrophenol	3.85	0.500	1.00	ug/L	2	4.00	---	96	23-143%	---	---	
4,6-Dinitro-2-methylphenol	3.70	0.500	1.00	ug/L	2	4.00	---	92	44-137%	---	---	
2-Methylphenol	3.14	0.0500	0.100	ug/L	2	4.00	---	78	30-120%	---	---	
3+4-Methylphenol(s)	2.78	0.0500	0.100	ug/L	2	4.00	---	70	29-120%	---	---	Q-41
2-Nitrophenol	3.78	0.200	0.400	ug/L	2	4.00	---	94	47-123%	---	---	
4-Nitrophenol	1.45	0.200	0.400	ug/L	2	4.00	---	36	10-120%	---	---	
Pentachlorophenol (PCP)	3.92	0.200	0.400	ug/L	2	4.00	---	98	35-138%	---	---	
Phenol	1.39	0.400	0.800	ug/L	2	4.00	---	35	10-120%	---	---	Q-41
2,3,4,6-Tetrachlorophenol	3.81	0.100	0.200	ug/L	2	4.00	---	95	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.91	0.100	0.200	ug/L	2	4.00	---	98	50-121%	---	---	
2,4,5-Trichlorophenol	3.87	0.100	0.200	ug/L	2	4.00	---	97	53-123%	---	---	
2,4,6-Trichlorophenol	3.96	0.100	0.200	ug/L	2	4.00	---	99	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	4.44	0.400	0.800	ug/L	2	4.00	---	111	55-135%	---	---	
Butyl benzyl phthalate	4.26	0.400	0.800	ug/L	2	4.00	---	107	53-134%	---	---	
Diethylphthalate	3.69	0.400	0.800	ug/L	2	4.00	---	92	56-125%	---	---	
Dimethylphthalate	3.81	0.400	0.800	ug/L	2	4.00	---	95	45-127%	---	---	
Di-n-butylphthalate	4.11	0.400	0.800	ug/L	2	4.00	---	103	59-127%	---	---	
Di-n-octyl phthalate	4.56	0.400	0.800	ug/L	2	4.00	---	114	51-140%	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 88 %*		*Limits: 44-120 %*			*Dilution: 2x*				Q-41
2-Fluorobiphenyl (Surr)			*84 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*32 %*		*10-133 %*			*"*				
p-Terphenyl-d14 (Surr)			*96 %*		*50-134 %*			*"*				
2-Fluorophenol (Surr)			*50 %*		*19-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*91 %*		*43-140 %*			*"*				
LCS Dup (0050624-BSD2)			Prepared: 05/18/20 09:39 Analyzed: 05/18/20 15:18									**Q-19**

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project:	**Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**
		Report ID: **A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050624 - EPA 3510C (Acid Extraction)							**Water**					
LCS Dup (0050624-BSD2)			Prepared: 05/18/20 09:39		Analyzed: 05/18/20 15:18							**Q-19**
EPA 8270D												
Acenaphthene	3.45	0.0200	0.0400	ug/L	2	4.00	---	86	47-122%	3	30%	B-02
Acenaphthylene	3.56	0.0200	0.0400	ug/L	2	4.00	---	89	41-130%	3	30%	B-02
Anthracene	3.72	0.0200	0.0400	ug/L	2	4.00	---	93	57-123%	2	30%	B-02
Benz(a)anthracene	3.76	0.0200	0.0400	ug/L	2	4.00	---	94	58-125%	1	30%	B
Benzo(a)pyrene	4.13	0.0300	0.0600	ug/L	2	4.00	---	103	54-128%	0.5	30%	B
Benzo(b)fluoranthene	3.98	0.0300	0.0600	ug/L	2	4.00	---	99	53-131%	2	30%	B
Benzo(k)fluoranthene	4.03	0.0300	0.0600	ug/L	2	4.00	---	101	57-129%	0.3	30%	B-02
Benzo(g,h,i)perylene	3.91	0.0200	0.0400	ug/L	2	4.00	---	98	50-134%	2	30%	B
Chrysene	3.83	0.0200	0.0400	ug/L	2	4.00	---	96	59-123%	2	30%	B
Dibenz(a,h)anthracene	3.91	0.0200	0.0400	ug/L	2	4.00	---	98	51-134%	1	30%	
Fluoranthene	3.82	0.0200	0.0400	ug/L	2	4.00	---	95	57-128%	3	30%	B
Fluorene	3.61	0.0200	0.0400	ug/L	2	4.00	---	90	52-124%	2	30%	B-02
Indeno(1,2,3-cd)pyrene	3.70	0.0200	0.0400	ug/L	2	4.00	---	93	52-134%	1	30%	B
1-Methylnaphthalene	3.43	0.0400	0.0800	ug/L	2	4.00	---	86	41-120%	3	30%	
2-Methylnaphthalene	3.35	0.0400	0.0800	ug/L	2	4.00	---	84	40-121%	5	30%	
Naphthalene	3.32	0.0400	0.0800	ug/L	2	4.00	---	83	40-121%	3	30%	
Phenanthrene	3.48	0.0200	0.0400	ug/L	2	4.00	---	87	59-120%	3	30%	B
Pyrene	3.79	0.0200	0.0400	ug/L	2	4.00	---	95	57-126%	2	30%	B
Carbazole	4.96	0.0300	0.0600	ug/L	2	4.00	---	**124**	**60-122%**	3	30%	Q-29
Dibenzofuran	3.49	0.0200	0.0400	ug/L	2	4.00	---	87	53-120%	2	30%	
4-Chloro-3-methylphenol	3.64	0.200	0.400	ug/L	2	4.00	---	91	52-120%	6	30%	
2-Chlorophenol	3.43	0.100	0.200	ug/L	2	4.00	---	86	38-120%	0.7	30%	
2,4-Dichlorophenol	3.60	0.100	0.200	ug/L	2	4.00	---	90	47-121%	4	30%	
2,4-Dimethylphenol	3.11	0.100	0.200	ug/L	2	4.00	---	78	31-124%	8	30%	
2,4-Dinitrophenol	3.73	0.500	1.00	ug/L	2	4.00	---	93	23-143%	3	30%	
4,6-Dinitro-2-methylphenol	3.73	0.500	1.00	ug/L	2	4.00	---	93	44-137%	0.7	30%	
2-Methylphenol	3.06	0.0500	0.100	ug/L	2	4.00	---	77	30-120%	2	30%	
3+4-Methylphenol(s)	2.81	0.0500	0.100	ug/L	2	4.00	---	70	29-120%	0.9	30%	Q-41
2-Nitrophenol	3.69	0.200	0.400	ug/L	2	4.00	---	92	47-123%	2	30%	
4-Nitrophenol	1.39	0.200	0.400	ug/L	2	4.00	---	35	10-120%	4	30%	
Pentachlorophenol (PCP)	3.84	0.200	0.400	ug/L	2	4.00	---	96	35-138%	2	30%	
Phenol	1.37	0.400	0.800	ug/L	2	4.00	---	34	10-120%	2	30%	Q-41
2,3,4,6-Tetrachlorophenol	3.73	0.100	0.200	ug/L	2	4.00	---	93	50-128%	2	30%	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050624 - EPA 3510C (Acid Extraction)							**Water**					
LCS Dup (0050624-BSD2)			Prepared: 05/18/20 09:39		Analyzed: 05/18/20 15:18							**Q-19**
2,3,5,6-Tetrachlorophenol	3.72	0.100	0.200	ug/L	2	4.00	---	93	50-121%	5	30%	
2,4,5-Trichlorophenol	3.65	0.100	0.200	ug/L	2	4.00	---	91	53-123%	6	30%	
2,4,6-Trichlorophenol	3.76	0.100	0.200	ug/L	2	4.00	---	94	50-125%	5	30%	
Bis(2-ethylhexyl)phthalate	4.41	0.400	0.800	ug/L	2	4.00	---	110	55-135%	0.8	30%	
Butyl benzyl phthalate	4.28	0.400	0.800	ug/L	2	4.00	---	107	53-134%	0.4	30%	
Diethylphthalate	3.58	0.400	0.800	ug/L	2	4.00	---	90	56-125%	3	30%	
Dimethylphthalate	3.72	0.400	0.800	ug/L	2	4.00	---	93	45-127%	2	30%	
Di-n-butylphthalate	3.98	0.400	0.800	ug/L	2	4.00	---	99	59-127%	3	30%	
Di-n-octyl phthalate	4.41	0.400	0.800	ug/L	2	4.00	---	110	51-140%	3	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 88 %*		*Limits: 44-120 %*		*Dilution: 2x*					Q-41
2-Fluorobiphenyl (Surr)			*80 %*		*44-120 %*		*"*					
Phenol-d6 (Surr)			*32 %*		*10-133 %*		*"*					
p-Terphenyl-d14 (Surr)			*94 %*		*50-134 %*		*"*					
2-Fluorophenol (Surr)			*48 %*		*19-120 %*		*"*					
2,4,6-Tribromophenol (Surr)			*89 %*		*43-140 %*		*"*					

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project:	**Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A0E0347 - 06 10 20 0829

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050699 - EPA 3510C (Acid Extraction)							**Water**					
Blank (0050699-BLK1)			Prepared: 05/19/20 15:21		Analyzed: 05/20/20 11:55							
EPA 8270D												
Acenaphthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 78 %*		*Limits: 44-120 %*			*Dilution: 1x*				
2-Fluorobiphenyl (Surr)			*68 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*25 %*		*10-133 %*			*"*				
p-Terphenyl-d14 (Surr)			*87 %*		*50-134 %*			*"*				
2-Fluorophenol (Surr)			*42 %*		*19-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*74 %*		*43-140 %*			*"*				Q-41
LCS (0050699-BS1)			Prepared: 05/19/20 15:21		Analyzed: 05/20/20 12:31							
EPA 8270D												
Acenaphthene	2.93	0.0100	0.0200	ug/L	1	4.00	---	73	47-122%	---	---	
Acenaphthylene	3.10	0.0100	0.0200	ug/L	1	4.00	---	78	41-130%	---	---	
Anthracene	3.37	0.0100	0.0200	ug/L	1	4.00	---	84	57-123%	---	---	
Benz(a)anthracene	3.57	0.0100	0.0200	ug/L	1	4.00	---	89	58-125%	---	---	
Benzo(a)pyrene	3.60	0.0150	0.0300	ug/L	1	4.00	---	90	54-128%	---	---	

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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050699 - EPA 3510C (Acid Extraction)							**Water**					
LCS (0050699-BS1)			Prepared: 05/19/20 15:21		Analyzed: 05/20/20 12:31							
Benzo(b)fluoranthene	3.72	0.0150	0.0300	ug/L	1	4.00	---	93	53-131%	---	---	
Benzo(k)fluoranthene	3.41	0.0150	0.0300	ug/L	1	4.00	---	85	57-129%	---	---	
Benzo(g,h,i)perylene	3.70	0.0100	0.0200	ug/L	1	4.00	---	93	50-134%	---	---	
Chrysene	3.49	0.0100	0.0200	ug/L	1	4.00	---	87	59-123%	---	---	
Dibenz(a,h)anthracene	3.55	0.0100	0.0200	ug/L	1	4.00	---	89	51-134%	---	---	
Fluoranthene	3.82	0.0100	0.0200	ug/L	1	4.00	---	96	57-128%	---	---	
Fluorene	3.36	0.0100	0.0200	ug/L	1	4.00	---	84	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.64	0.0100	0.0200	ug/L	1	4.00	---	91	52-134%	---	---	
1-Methylnaphthalene	2.82	0.0200	0.0400	ug/L	1	4.00	---	70	41-120%	---	---	
2-Methylnaphthalene	2.76	0.0200	0.0400	ug/L	1	4.00	---	69	40-121%	---	---	
Naphthalene	2.53	0.0200	0.0400	ug/L	1	4.00	---	63	40-121%	---	---	
Phenanthrene	3.09	0.0100	0.0200	ug/L	1	4.00	---	77	59-120%	---	---	
Pyrene	3.70	0.0100	0.0200	ug/L	1	4.00	---	93	57-126%	---	---	
Bis(2-ethylhexyl)phthalate	3.36	0.200	0.400	ug/L	1	4.00	---	84	55-135%	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 84 %*		*Limits: 44-120 %*				*Dilution: 1x*			
2-Fluorobiphenyl (Surr)			*69 %*		*44-120 %*				*"*			
Phenol-d6 (Surr)			*29 %*		*10-133 %*				*"*			
p-Terphenyl-d14 (Surr)			*84 %*		*50-134 %*				*"*			
2-Fluorophenol (Surr)			*46 %*		*19-120 %*				*"*			
2,4,6-Tribromophenol (Surr)			*96 %*		*43-140 %*				*"*			Q-41
LCS Dup (0050699-BSD1)			Prepared: 05/19/20 15:21		Analyzed: 05/20/20 13:06							**Q-19**
EPA 8270D												
Acenaphthene	2.96	0.0100	0.0200	ug/L	1	4.00	---	74	47-122%	1	30%	
Acenaphthylene	3.19	0.0100	0.0200	ug/L	1	4.00	---	80	41-130%	3	30%	
Anthracene	3.54	0.0100	0.0200	ug/L	1	4.00	---	89	57-123%	5	30%	
Benz(a)anthracene	3.63	0.0100	0.0200	ug/L	1	4.00	---	91	58-125%	2	30%	
Benzo(a)pyrene	3.58	0.0150	0.0300	ug/L	1	4.00	---	89	54-128%	0.5	30%	
Benzo(b)fluoranthene	3.59	0.0150	0.0300	ug/L	1	4.00	---	90	53-131%	4	30%	
Benzo(k)fluoranthene	3.57	0.0150	0.0300	ug/L	1	4.00	---	89	57-129%	5	30%	
Benzo(g,h,i)perylene	3.74	0.0100	0.0200	ug/L	1	4.00	---	93	50-134%	0.9	30%	
Chrysene	3.54	0.0100	0.0200	ug/L	1	4.00	---	88	59-123%	1	30%	
Dibenz(a,h)anthracene	3.72	0.0100	0.0200	ug/L	1	4.00	---	93	51-134%	5	30%	
Fluoranthene	3.98	0.0100	0.0200	ug/L	1	4.00	---	99	57-128%	4	30%	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project:	**Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A0E0347 - 06 10 20 0829

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050699 - EPA 3510C (Acid Extraction)							**Water**					
LCS Dup (0050699-BSD1)			Prepared: 05/19/20 15:21		Analyzed: 05/20/20 13:06							**Q-19**
Fluorene	3.50	0.0100	0.0200	ug/L	1	4.00	---	87	52-124%	4	30%	
Indeno(1,2,3-cd)pyrene	3.64	0.0100	0.0200	ug/L	1	4.00	---	91	52-134%	0.1	30%	
1-Methylnaphthalene	2.92	0.0200	0.0400	ug/L	1	4.00	---	73	41-120%	3	30%	
2-Methylnaphthalene	2.81	0.0200	0.0400	ug/L	1	4.00	---	70	40-121%	2	30%	
Naphthalene	2.56	0.0200	0.0400	ug/L	1	4.00	---	64	40-121%	1	30%	
Phenanthrene	3.21	0.0100	0.0200	ug/L	1	4.00	---	80	59-120%	4	30%	
Pyrene	3.84	0.0100	0.0200	ug/L	1	4.00	---	96	57-126%	4	30%	
Bis(2-ethylhexyl)phthalate	3.44	0.200	0.400	ug/L	1	4.00	---	86	55-135%	2	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 83 %*		*Limits: 44-120 %*		*Dilution: 1x*					
2-Fluorobiphenyl (Surr)			*68 %*		*44-120 %*		*"*					
Phenol-d6 (Surr)			*31 %*		*10-133 %*		*"*					
p-Terphenyl-d14 (Surr)			*84 %*		*50-134 %*		*"*					
2-Fluorophenol (Surr)			*49 %*		*19-120 %*		*"*					
2,4,6-Tribromophenol (Surr)			*96 %*		*43-140 %*		*"*					Q-41

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020A (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050749 - EPA 3015A							**Water**					
Blank (0050749-BLK1)			Prepared: 05/20/20 12:17		Analyzed: 05/21/20 02:09							
EPA 6020A												
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
LCS (0050749-BS1)			Prepared: 05/20/20 12:17		Analyzed: 05/21/20 02:14							
EPA 6020A												
Arsenic	55.9	0.500	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Duplicate (0050749-DUP1)			Prepared: 05/20/20 12:17		Analyzed: 05/21/20 02:37							
QC Source Sample: PDI-FB-2005121245 (A0E0347-01)												
EPA 6020A												
Arsenic	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Matrix Spike (0050749-MS1)			Prepared: 05/20/20 12:17		Analyzed: 05/21/20 02:52							
QC Source Sample: PDI-FB-2005121245 (A0E0347-01)												
EPA 6020A												
Arsenic	55.9	0.500	1.00	ug/L	1	55.6	ND	101	75-125%	---	---	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

SAMPLE PREPARATION INFORMATION

Selected Volatile Organic Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0050467							
A0E0347-01	WQ	EPA 8260C	05/12/20 12:45	05/13/20 15:00	5mL/5mL	5mL/5mL	1.00
A0E0347-02	WQ	EPA 8260C	05/12/20 12:45	05/13/20 15:00	5mL/5mL	5mL/5mL	1.00

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3510C (Neutral pH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0050585							
A0E0347-01	WQ	EPA 8082A	05/12/20 12:45	05/15/20 10:24	1070mL/2mL	1000mL/2mL	0.94
A0E0347-02	WQ	EPA 8082A	05/12/20 12:45	05/15/20 10:24	1060mL/2mL	1000mL/2mL	0.94

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0050653							
A0E0347-01	WQ	EPA 8081B	05/12/20 12:45	05/18/20 14:41	1060mL/5mL	1000mL/5mL	0.94
A0E0347-02	WQ	EPA 8081B	05/12/20 12:45	05/18/20 14:41	1060mL/5mL	1000mL/5mL	0.94

Semivolatile Organic Compounds by EPA 8270D

Prep: EPA 3510C (Acid Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0050624							
A0E0347-01RE1	WQ	EPA 8270D	05/12/20 12:45	05/18/20 09:39	1060mL/1mL	1000mL/1mL	0.94
Batch: 0050699							
A0E0347-02RE2	WQ	EPA 8270D	05/12/20 12:45	05/19/20 15:21	1040mL/1mL	1000mL/1mL	0.96

Total Metals by EPA 6020A (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0050749							
A0E0347-01	WQ	EPA 6020A	05/12/20 12:45	05/20/20 12:17	45mL/50mL	45mL/50mL	1.00
A0E0347-02	WQ	EPA 6020A	05/12/20 12:45	05/20/20 12:17	45mL/50mL	45mL/50mL	1.00

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

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B	Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
B-02	Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-29	Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
S-03	Reextraction and analysis, or analysis of laboratory duplicate, confirms surrogate failure due to sample matrix effect.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories



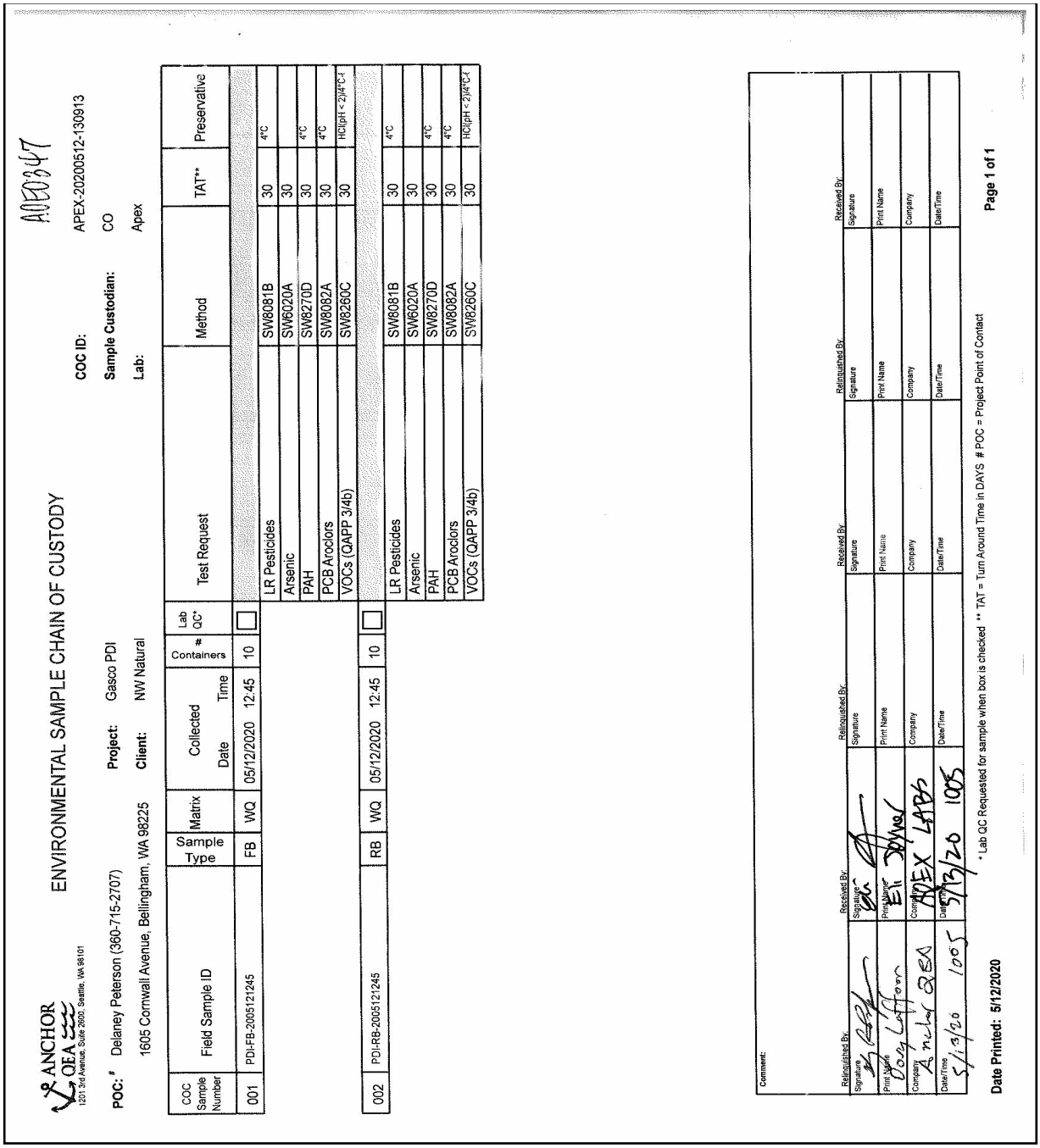
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Report ID:
A0E0347 - 06 10 20 0829



ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0E0347

COC ID: APEX-20200512-130913

POC: Delaney Peterson (360-715-2707) Project: Gasco PDI Sample Custodian: CO

1605 Cornwall Avenue, Bellingham, WA 98225 Client: NW Natural Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-FB-20051212245	FB	WQ	05/12/2020	12:45	10	☐				
								LR Pesticides	SW8081B	30	4°C
								Arsenic	SW6020A	30	
								PAH	SW8270D	30	4°C
								PCB Aroclors	SW8082A	30	4°C
								VOCs (QAPP 3/4b)	SW8260C	30	HCl(pH < 2)/4°C-f
002	PDI-RB-20051212245	RB	WQ	05/12/2020	12:45	10	☐				
								LR Pesticides	SW8081B	30	4°C
								Arsenic	SW6020A	30	
								PAH	SW8270D	30	4°C
								PCB Aroclors	SW8082A	30	4°C
								VOCs (QAPP 3/4b)	SW8260C	30	HCl(pH < 2)/4°C-f

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
5/13/20 1005	5/13/20 1005				

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS #POC = Project Point of Contact

Page 1 of 1

Date Printed: 5/12/2020

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0347 - 06 10 20 0829**

APEX LABS COOLER RECEIPT FORM

Client: Anchor Element WO#: A0 E0347

Project/Project #: Gasco PDI 20200512-130913

Delivery Info:

Date/time received: 5/13/20 @ 1005 By: EJ

Delivered by: Apex X Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 5/13/20 @ 1045 By: EJ

Chain of Custody included? Yes X No Custody seals? Yes X No

Signed/dated by client? Yes X No

Signed/dated by Apex? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	0.5	1.4					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	Y					
Ice type: (Gel/Real/Other)	Real	Real					
Condition:	Good	Good					

Cooler out of temp? (Y)(N) Possible reason why:

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/(NA)

Out of temperature samples form initiated? Yes/No/(NA)

Samples Inspection: Date/time inspected: 5/13/20 @ 1200 By: (EJ)

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No NA X

Comments

Water samples: pH checked: Yes X No NA pH appropriate? Yes X No NA

Comments:

Additional information:

Labeled by: (EJ) Witness: APK Cooler Inspected by: (EJ) See Project Contact Form: Y

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Sample Receipt Documentation
(Work orders, Chain of Custody & Cooler Receipt Forms)

A0E0347

Apex Laboratories

Client:	**Anchor QEA, LLC**	**Project Manager:**	**Darwin Thomas**
Project:	**Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores**	**Project Number:**	**[none]**

Report To:

Anchor QEA, LLC
Ryan Barth
6720 SW Macadam Ave. Suite 125
Portland, OR 97219
Phone: (503) 670-1108
Fax: na

Invoice To:

Anchor QEA, LLC Seattle
Accounts Payable
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone :(206) 287-9130
Fax: (206) 287-9131

Date Due:	05/28/20 17:00 (10 day TAT)		
Received By:	Eli S. Joyner	Date Received:	05/13/20 10:05
Logged In By:	Susan L. Treat	Date Logged In:	05/13/20 11:33

Cooler #1 received at 0.5°C

Custody Seals	Yes	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	Yes	Received On Ice	Yes
Temperature OK	Yes								

Cooler #2 received at 1.4°C

Custody Seals	Yes	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	Yes	Received On Ice	Yes
Temperature OK	Yes								

Analysis	Due	TAT	Expires	Comments
A0E0347-01 PDI-FB-2005121245 [Water] Sampled 05/12/20 12:45				
(GMT-08:00) Pacific Time (US & Canada) 10 Containers				
Metals				
As (Arsenic) - 6020 - Total	05/27/20 17:00	10	11/08/20 12:45	
Project Mgmt				
Data Package	05/27/20 17:00	10	08/19/20 12:45	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	05/27/20 17:00	10	05/19/20 12:45	MDL. Use Custom Spike.
8082 PCBs - Low Level (2mL FV)	05/27/20 17:00	10	05/12/21 12:45	Waters only,+1262,1268
Semivols (Scan)				
8270D LL PAH/PHTH/Phenols	05/27/20 17:00	10	05/19/20 12:45	
Volatiles				
8260C BTEX+Halo6	05/27/20 17:00	10	05/26/20 12:45	CAP TESTING/Waters
A0E0347-02 PDI-RB-2005121245 [Water] Sampled 05/12/20 12:45				
(GMT-08:00) Pacific Time (US & Canada) 10 Containers				
Metals				
As (Arsenic) - 6020 - Total	05/27/20 17:00	10	11/08/20 12:45	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	05/27/20 17:00	10	05/19/20 12:45	MDL. Use Custom Spike.
8082 PCBs - Low Level (2mL FV)	05/27/20 17:00	10	05/12/21 12:45	Waters only,+1262,1268
Semivols (Scan)				
8270D LL PAH/PHTH/Phenols	05/27/20 17:00	10	05/19/20 12:45	
Volatiles				
8260C BTEX+Halo6	05/27/20 17:00	10	05/26/20 12:45	CAP TESTING/Waters

Reviewed By

Date

A0E0347

Apex Laboratories

Client:	**Anchor QEA, LLC**	**Project Manager:**	**Darwin Thomas**
Project:	**Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores**	**Project Number:**	**[none]**

Reviewed By

Date

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0E0347

COC ID: APEX-20200512-130913

POC: # Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

Sample Custodian: CO
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-FB-2005121245	FB	WQ	05/12/2020	12:45	10	☐				
								LR Pesticides	SW8081B	30	4°C
								Arsenic	SW6020A	30	
								PAH	SW8270D	30	4°C
								PCB Aroclors	SW8082A	30	4°C
								VOCs (QAPP 3/4b)	SW8260C	30	HCl(pH < 2)/4°C-(
002	PDI-RB-2005121245	RB	WQ	05/12/2020	12:45	10	☐				
								LR Pesticides	SW8081B	30	4°C
								Arsenic	SW6020A	30	
								PAH	SW8270D	30	4°C
								PCB Aroclors	SW8082A	30	4°C
								VOCs (QAPP 3/4b)	SW8260C	30	HCl(pH < 2)/4°C-(

07/15/20 Anchor QEA, LLC - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 43 of 1443

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: Dory Laffoon	Print Name: Eli Joyner	Print Name	Print Name	Print Name	Print Name
Company: Anchor QEA	Company: APEX LABS	Company	Company	Company	Company
Date/Time: 5/13/20 1005	Date/Time: 5/13/20 1005	Date/Time	Date/Time	Date/Time	Date/Time

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Date Printed: 5/12/2020

APEX LABS COOLER RECEIPT FORM

Client: Anchor Element WO#: A0 E0347

Project/Project #: Gasco PDI 20200512-130913

Delivery Info:

Date/time received: 5/13/20 @ 1005 By: EJ

Delivered by: Apex X Client ___ ESS ___ FedEx ___ UPS ___ Swift ___ Senvoy ___ SDS ___ Other ___

Cooler Inspection Date/time inspected: 5/13/20 @ 1045 By: EJ

Chain of Custody included? Yes X No ___ Custody seals? Yes X No ___

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	0.5	1.4					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	Y					
Ice type: (Gel/Real/Other)	Real	Real					
Condition:	Good	Good					

Cooler out of temp? (Y/(N)) Possible reason why: ___

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/(NA)

Out of temperature samples form initiated? Yes/No/(NA)

Samples Inspection: Date/time inspected: 5/13/20 @ 1200 By: (8)

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: ___

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes √ No ___ Comments: ___

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments ___

Water samples: pH checked: Yes X No ___ NA ___ pH appropriate? Yes X No ___ NA ___

Comments: ___

Additional information: ___

Labeled by: (8) Witness: PPK Cooler Inspected by: (8) See Project Contact Form: Y

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

CLP-Like Forms

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GCMS

METHOD: EPA 8260C

ANALYSES DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-FB-2005121245	A0E0347-01	WQ
PDI-RB-2005121245	A0E0347-02	WQ

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 
Name: David G. Jack

Forms Created: 7/7/2020 12:31PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: Apex Laboratories **SDG:** Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC **Project:** Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Water

Analyte	MDL	MRL	Units
Benzene	0.100	0.200	ug/L
Toluene	0.500	1.00	ug/L
Ethylbenzene	0.250	0.500	ug/L
m,p-Xylene	0.500	1.00	ug/L
o-Xylene	0.250	0.500	ug/L
Chlorobenzene	0.250	0.500	ug/L
1,1-Dichloroethene	0.200	0.400	ug/L
cis-1,2-Dichloroethene	0.200	0.400	ug/L
Tetrachloroethene (PCE)	0.200	0.400	ug/L
Trichloroethene (TCE)	0.200	0.400	ug/L
Vinyl chloride	0.200	0.400	ug/L

Note: MDLs are listed only if the corresponding analyte was evalutated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PDI-FB-2005121245

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	WQ	Laboratory ID:	A0E0347-01	File ID:	VG20051321.D
Sampled:	05/12/20 12:45	Prepared:	05/13/20 15:00	Analyzed:	05/13/20 16:50
		Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL

Batch: 0050467 Sequence: 0E13029 Calibration: A0D3007 Instrument: VOA-GCMS7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-43-2	Benzene	1	0.100	U
108-88-3	Toluene	1	0.500	U
100-41-4	Ethylbenzene	1	0.250	U
179601-23-1	m,p-Xylene	1	0.500	U
95-47-6	o-Xylene	1	0.250	U
108-90-7	Chlorobenzene	1	0.250	U
127-18-4	Tetrachloroethene (PCE)	1	0.200	U
75-35-4	1,1-Dichloroethene	1	0.200	U
79-01-6	Trichloroethene (TCE)	1	0.200	U
156-59-2	cis-1,2-Dichloroethene	1	0.200	U
75-01-4	Vinyl chloride	1	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ng/mL)	CONC (ng/mL)	% REC	QC LIMITS	Q
1,4-Difluorobenzene (Surr)	50.0	54.2	108	80 - 120	
Toluene-d8 (Surr)	50.0	50.3	101	80 - 120	
4-Bromofluorobenzene (Surr)	50.0	50.2	100	80 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (ISTD)	122743	6.837	162765	6.837	
Chlorobenzene-d5 (ISTD)	369047	10.434	467489	10.434	
1,4-Dichlorobenzene-d4 (ISTD)	162453	12.275	238883	12.275	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PDI-RB-2005121245

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	WQ	Laboratory ID:	A0E0347-02	File ID:	VG20051322.D
Sampled:	05/12/20 12:45	Prepared:	05/13/20 15:00	Analyzed:	05/13/20 17:17
		Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL

Batch: 0050467 Sequence: 0E13029 Calibration: A0D3007 Instrument: VOA-GCMS7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-43-2	Benzene	1	0.100	U
108-88-3	Toluene	1	0.500	U
100-41-4	Ethylbenzene	1	0.250	U
179601-23-1	m,p-Xylene	1	0.500	U
95-47-6	o-Xylene	1	0.250	U
108-90-7	Chlorobenzene	1	0.250	U
127-18-4	Tetrachloroethene (PCE)	1	0.200	U
75-35-4	1,1-Dichloroethene	1	0.200	U
79-01-6	Trichloroethene (TCE)	1	0.200	U
156-59-2	cis-1,2-Dichloroethene	1	0.200	U
75-01-4	Vinyl chloride	1	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ng/mL)	CONC (ng/mL)	% REC	QC LIMITS	Q
1,4-Difluorobenzene (Surr)	50.0	54.8	110	80 - 120	
Toluene-d8 (Surr)	50.0	50.1	100	80 - 120	
4-Bromofluorobenzene (Surr)	50.0	50.2	100	80 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (ISTD)	129552	6.837	162765	6.837	
Chlorobenzene-d5 (ISTD)	392597	10.434	467489	10.434	
1,4-Dichlorobenzene-d4 (ISTD)	172205	12.275	238883	12.275	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8260C

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0050467 Batch Matrix: Water
Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0050467-BLK1	VG20051305.D	05/13/20 07:30	
LCS	0050467-BS1	VG20051303.D	05/13/20 07:30	
PDI-FB-2005121245	A0E0347-01	VG20051321.D	05/13/20 15:00	
PDI-RB-2005121245	A0E0347-02	VG20051322.D	05/13/20 15:00	

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Water	Laboratory ID:	0050467-BLK1	File ID:	VG20051305.D
Prepared:	05/13/20 07:30	Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL
Analyzed:	05/13/20 09:35	Instrument:	VOA-GCMS7		
Batch:	0050467	Sequence:	0E13029	Calibration:	A0D3007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
71-43-2	Benzene	0.100	U
108-88-3	Toluene	0.500	U
100-41-4	Ethylbenzene	0.250	U
179601-23-1	m,p-Xylene	0.500	U
95-47-6	o-Xylene	0.250	U
108-90-7	Chlorobenzene	0.250	U
127-18-4	Tetrachloroethene (PCE)	0.200	U
75-35-4	1,1-Dichloroethene	0.200	U
79-01-6	Trichloroethene (TCE)	0.200	U
156-59-2	cis-1,2-Dichloroethene	0.200	U
75-01-4	Vinyl chloride	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ng/mL)	CONC (ng/mL)	% REC	QC LIMITS	Q
1,4-Difluorobenzene (Surr)	50.0	54.0	108	80 - 120	
Toluene-d8 (Surr)	50.0	49.5	99	80 - 120	
4-Bromofluorobenzene (Surr)	50.0	51.0	102	80 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (ISTD)	137620	6.837	162765	6.837	
Chlorobenzene-d5 (ISTD)	414132	10.434	467489	10.434	
1,4-Dichlorobenzene-d4 (ISTD)	181058	12.275	238883	12.275	

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050467	Laboratory ID:	0050467-BS1
Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Benzene	20.0	20.9	104	80 - 120
Toluene	20.0	19.6	98	80 - 120
Ethylbenzene	20.0	20.8	104	80 - 120
m,p-Xylene	40.0	40.1	100	80 - 120
o-Xylene	20.0	18.8	94	80 - 120
Chlorobenzene	20.0	19.9	99	80 - 120
Tetrachloroethene (PCE)	20.0	21.4	107	80 - 120
1,1-Dichloroethene	20.0	20.1	101	80 - 120
Trichloroethene (TCE)	20.0	19.2	96	80 - 120
cis-1,2-Dichloroethene	20.0	19.7	98	80 - 120
Vinyl chloride	20.0	18.0	90	80 - 120

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0D28059	Instrument:	VOA-GCMS7
Matrix:	Water	Calibration:	A0D3007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0D28059-TUN1	VG20042803.D	04/28/20 14:55
Initial Cal Blank	0D28059-ICB1	VG20042804.D	04/28/20 15:22
Cal Standard	0D28059-CAL1	VG20042805.D	04/28/20 15:49
Cal Standard	0D28059-CAL2	VG20042806.D	04/28/20 16:16
Cal Standard	0D28059-CAL3	VG20042807.D	04/28/20 16:43
Cal Standard	0D28059-CAL4	VG20042808.D	04/28/20 17:10
Cal Standard	0D28059-CAL5	VG20042809.D	04/28/20 17:37
Cal Standard	0D28059-CAL6	VG20042810.D	04/28/20 18:04
Cal Standard	0D28059-CAL7	VG20042811.D	04/28/20 18:31
Cal Standard	0D28059-CAL8	VG20042812.D	04/28/20 18:58
Cal Standard	0D28059-CAL9	VG20042813.D	04/28/20 19:25
Cal Standard	0D28059-CALA	VG20042815.D	04/28/20 20:19
Cal Standard	0D28059-CALB	VG20042817.D	04/28/20 21:14
Initial Cal Check	0D28059-ICV1	VG20042820.D	04/28/20 22:35

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E13029	Instrument:	VOA-GCMS7
Matrix:	Water	Calibration:	A0D3007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0E13029-TUN1	VG20051302.D	05/13/20 08:14
Calibration Check	0E13029-CCV1	VG20051303.D	05/13/20 08:41
Blank	0050467-BLK1	VG20051305.D	05/13/20 09:35
PDI-FB-2005121245	A0E0347-01	VG20051321.D	05/13/20 16:50
PDI-RB-2005121245	A0E0347-02	VG20051322.D	05/13/20 17:17

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	VG20042803.D	Injection Date:	04/28/20
Instrument ID:	VOA-GCMS7	Injection Time:	14:55
Sequence:	0D28059	Lab Sample ID:	0D28059-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 95	50 - 200% of m/z 174	122.11	PASS
m/z 96	5 - 9% of m/z 95	6.59	PASS
m/z 173	Less than 2% of m/z 174	0.59	PASS
m/z 174	50 - 200% of m/z 95	81.89	PASS
m/z 175	5 - 9% of m/z 174	6.98	PASS
m/z 176	95 - 105% of m/z 174	96.48	PASS
m/z 177	5 - 10% of m/z 176	6.50	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	VG20051302.D	Injection Date:	05/13/20
Instrument ID:	VOA-GCMS7	Injection Time:	08:14
Sequence:	0E13029	Lab Sample ID:	0E13029-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 95	50 - 200% of m/z 174	120.77	PASS
m/z 96	5 - 9% of m/z 95	6.66	PASS
m/z 173	Less than 2% of m/z 174	0.60	PASS
m/z 174	50 - 200% of m/z 95	82.80	PASS
m/z 175	5 - 9% of m/z 174	7.01	PASS
m/z 176	95 - 105% of m/z 174	97.22	PASS
m/z 177	5 - 10% of m/z 176	6.32	PASS

INITIAL CALIBRATION DATA (Summary)

EPA 8260C

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing
Calibration: A0D3007
Date: 04/30/20 16:18
Instrument: VOA-GCMS7

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	3.96816	Ave	7.851201	6.727	5.778003E-02			20	
Toluene	1.580707	Ave	10.0996	9.020091	1.535634E-02			20	
Ethylbenzene	1.561105	Ave	7.392247	10.46873	4.114612E-02			20	
m,p-Xylene	1.057092	XXX	15.25919	10.59327	3.120231E-02				
o-Xylene	1.011683	XXX	20.67143	10.94764	2.606792E-02				
Chlorobenzene	0.9963687	Ave	9.125382	10.44545	2.048998E-02			20	
Tetrachloroethene (PCE)	0.3268779	Ave	6.62251	9.411091	2.342388E-02			20	
1,1-Dichloroethene	1.392254	Ave	5.338628	3.563545	9.267448E-02			20	
Trichloroethene (TCE)	1.096361	Ave	10.32083	7.382	5.522908E-02			20	
cis-1,2-Dichloroethene	1.307613	Ave	7.479204	5.798091	7.700076E-02			20	
Vinyl chloride	1.231398	Ave	5.857741	2.098909	0.1131401			20	
1,4-Difluorobenzene (Surr)	3.216917	Ave	1.750201	7.422	1.021206E-02			20	
Toluene-d8 (Surr)	1.365108	Ave	2.733357	8.965	2.139081E-02			20	
4-Bromofluorobenzene (Surr)	0.8021398	Ave	3.410392	11.42782	1.185887E-02			20	

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a2) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Calibration: A0D3007

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Instrument: VOA-GCMS7
Calibration Date: 04/30/20 16:18

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Benzene	0.1	4.417295	0.2	3.805997	0.4	3.472035	1	3.62183	2	3.628158	5	3.914027
Toluene	0.1	2.039612	0.2	1.606634	0.4	1.601195	1	1.506691	2	1.464126	5	1.517766
Ethylbenzene	0.1	1.741329	0.2	1.390234	0.4	1.395905	1	1.506301	2	1.470853	5	1.528409
m,p-Xylene	0.2	0.9424136	0.4	0.900484	0.8	0.8399966	2	0.9115889	4	0.9161075	10	1.04835
o-Xylene	0.1	1.064145	0.2	0.74459	0.4	0.7548046	1	0.7945953	2	0.821777	5	0.947403
Xylenes, total	0.3	0.9829909	0.6	0.8485193	1.2	0.8115993	3	0.8725911	6	0.884664	15	1.014701
Chlorobenzene	0.1	1.264076	0.2	0.9766515	0.4	0.9728823	1	0.9584254	2	0.9364336	5	0.9718497
Tetrachloroethene (PCE)	0.1	0.3031202	0.2	0.3075171	0.4	0.350445	1	0.3144082	2	0.2933691	5	0.3330258
1,1-Dichloroethene	0.1	1.567854	0.2	1.412351	0.4	1.393041	1	1.366715	2	1.314063	5	1.317396
Trichloroethene (TCE)	0.1	1.400499	0.2	1.136237	0.4	1.161508	1	1.038502	2	1.008476	5	1.057264
cis-1,2-Dichloroethene	0.1	1.347649	0.2	1.203776	0.4	1.16343	1	1.211945	2	1.22117	5	1.276643
Vinyl chloride	0.1	1.387286	0.2	1.293165	0.4	1.210505	1	1.211227	2	1.167554	5	1.165308
1,4-Difluorobenzene (Surr)	50	3.247175	50	3.304631	50	3.282782	50	3.271734	50	3.226354	50	3.185244
Toluene-d8 (Surr)	50	1.410628	50	1.406848	50	1.386443	50	1.387665	50	1.393789	50	1.369514
4-Bromofluorobenzene (Surr)	50	0.8326555	50	0.8264596	50	0.8297939	50	0.8241855	50	0.8227063	50	0.8043802

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0D3007
Instrument: VOA-GCMS7
Matrix:
Calibration Date: 04/30/20 16:18

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Benzene	10	3.992491	20	4.253417	50	4.216124	100	4.026935	200	4.301454		
Toluene	10	1.512633	20	1.583339	50	1.561497	100	1.472939	200	1.52134		
Ethylbenzene	10	1.563588	20	1.665245	50	1.668314	100	1.585854	200	1.656126		
m,p-Xylene	20	1.12378	40	1.22953	100	1.255705	200	1.209829	400	1.250222		
o-Xylene	10	1.049828	20	1.194388	50	1.258466	100	1.223484	200	1.275031		
Xylenes, total	30	1.099129	60	1.217816	150	1.256626	300	1.214381	600	1.258492		
Chlorobenzene	10	0.957436	20	1.004701	50	0.9915996	100	0.9457738	200	0.9802268		
Tetrachloroethene (PCE)	10	0.3196402	20	0.3441199	50	0.3413264	100	0.3255426	200	0.3631428		
1,1-Dichloroethene	10	1.329623	20	1.420733	50	1.41049	100	1.333962	200	1.448569		
Trichloroethene (TCE)	10	1.023145	20	1.091477	50	1.058137	100	0.9953207	200	1.089405		
cis-1,2-Dichloroethene	10	1.319115	20	1.400257	50	1.417377	100	1.374669	200	1.447717		
Vinyl chloride	10	1.154867	20	1.202211	50	1.30238	100	1.187962	200	1.262908		
1,4-Difluorobenzene (Surr)	50	3.155319	50	3.149654	50	3.169607	50	3.156234	50	3.237351		
Toluene-d8 (Surr)	50	1.361381	50	1.350286	50	1.33504	50	1.322794	50	1.291798		
4-Bromofluorobenzene (Surr)	50	0.7985304	50	0.7814303	50	0.7680889	50	0.7553605	50	0.7799467		

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Instrument ID:	VOA-GCMS7	Calibration:	A0D3007
Lab File ID:	VG20042820.D		
Sequence:	0D28059	Inject Date:	04/28/20
Lab Sample ID:	0D28059-ICV1	Inject Time:	22:35

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Benzene	20.0	21.1	5.3	70 - 130
Toluene	20.0	20.0	0.1	70 - 130
Ethylbenzene	20.0	21.8	8.8	70 - 130
Xylenes, total	60.0	63.0	4.9	70 - 130
Chlorobenzene	20.0	20.6	3.2	70 - 130
Tetrachloroethene (PCE)	20.0	21.4	7.0	70 - 130
1,1-Dichloroethene	20.0	17.0	-14.8	70 - 130
Trichloroethene (TCE)	20.0	20.2	1.0	70 - 130
cis-1,2-Dichloroethene	20.0	20.9	4.6	70 - 130
Vinyl chloride	20.0	19.5	-2.6	70 - 130

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0D28059	Instrument:	VOA-GCMS7
Matrix:	Water	Calibration:	A0D3007

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0D28059-ICV1)				Lab File ID: VG20042820.D		Analyzed: 04/28/20 22:35		
1,4-Difluorobenzene (Surr)	50.0	98	70 - 130	7.422	7.422	0.0000	+/-1.0	
Toluene-d8 (Surr)	50.0	99	70 - 130	8.965	8.965	0.0000	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	98	70 - 130	11.428	11.42782	0.0002	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E13029	Instrument:	VOA-GCMS7
Matrix:	Water	Calibration:	A0D3007

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (0050467-BS1)			Lab File ID: VG20051303.D		Analyzed: 05/13/20 08:41			
1,4-Difluorobenzene (Surr)	50.0	99	80 - 120	7.422	7.422	0.0000	+/-1.0	
Toluene-d8 (Surr)	50.0	96	80 - 120	8.965	8.965	0.0000	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	96	80 - 120	11.428	11.42782	0.0002	+/-1.0	
Blank (0050467-BLK1)			Lab File ID: VG20051305.D		Analyzed: 05/13/20 09:35			
1,4-Difluorobenzene (Surr)	50.0	108	80 - 120	7.422	7.422	0.0000	+/-1.0	
Toluene-d8 (Surr)	50.0	99	80 - 120	8.965	8.965	0.0000	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	102	80 - 120	11.428	11.42782	0.0002	+/-1.0	
PDI-FB-2005121245 (A0E0347-01)			Lab File ID: VG20051321.D		Analyzed: 05/13/20 16:50			
1,4-Difluorobenzene (Surr)	50.0	108	80 - 120	7.422	7.422	0.0000	+/-1.0	
Toluene-d8 (Surr)	50.0	101	80 - 120	8.965	8.965	0.0000	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	100	80 - 120	11.428	11.42782	0.0002	+/-1.0	
PDI-RB-2005121245 (A0E0347-02)			Lab File ID: VG20051322.D		Analyzed: 05/13/20 17:17			
1,4-Difluorobenzene (Surr)	50.0	110	80 - 120	7.422	7.422	0.0000	+/-1.0	
Toluene-d8 (Surr)	50.0	100	80 - 120	8.965	8.965	0.0000	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	100	80 - 120	11.427	11.42782	-0.0008	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E13029	Instrument:	VOA-GCMS7
Matrix:	Water	Calibration:	A0D3007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (0050467-BS1)			Lab File ID: VG20051303.D			Analyzed: 05/13/20 08:41			
Pentafluorobenzene (ISTD)	162765	6.837	162765	6.837	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	467489	10.434	467489	10.434	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	238883	12.275	238883	12.275	100	50 - 200	0.0000	+/-0.50	
Calibration Check (0E13029-CCV1)			Lab File ID: VG20051303.D			Analyzed: 05/13/20 08:41			
Pentafluorobenzene (ISTD)	162765	6.837	145168	6.837	112	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	467489	10.434	402229	10.434	116	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	238883	12.275	194144	12.275	123	50 - 200	0.0000	+/-0.50	
Blank (0050467-BLK1)			Lab File ID: VG20051305.D			Analyzed: 05/13/20 09:35			
Pentafluorobenzene (ISTD)	137620	6.837	162765	6.837	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	414132	10.434	467489	10.434	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	181058	12.275	238883	12.275	76	50 - 200	0.0000	+/-0.50	
Duplicate (0050467-DUP1)			Lab File ID: VG20051308.D			Analyzed: 05/13/20 10:57			
Pentafluorobenzene (ISTD)	140917	6.837	162765	6.837	87	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	413843	10.434	467489	10.434	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	182873	12.275	238883	12.275	77	50 - 200	0.0000	+/-0.50	
Matrix Spike (0050467-MS1)			Lab File ID: VG20051312.D			Analyzed: 05/13/20 12:45			
Pentafluorobenzene (ISTD)	169776	6.837	162765	6.837	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	482278	10.434	467489	10.434	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	250199	12.275	238883	12.275	105	50 - 200	0.0000	+/-0.50	
PDI-FB-2005121245 (A0E0347-01)			Lab File ID: VG20051321.D			Analyzed: 05/13/20 16:50			
Pentafluorobenzene (ISTD)	122743	6.837	162765	6.837	75	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	369047	10.434	467489	10.434	79	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	162453	12.275	238883	12.275	68	50 - 200	0.0000	+/-0.50	
PDI-RB-2005121245 (A0E0347-02)			Lab File ID: VG20051322.D			Analyzed: 05/13/20 17:17			
Pentafluorobenzene (ISTD)	129552	6.837	162765	6.837	80	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	392597	10.434	467489	10.434	84	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	172205	12.275	238883	12.275	72	50 - 200	0.0000	+/-0.50	

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-FB-2005121245	05/12/20 12:45	05/13/20 10:05	05/13/20 15:00	1.09	14.00	05/13/20 16:50	1.17	14.00	
PDI-RB-2005121245	05/12/20 12:45	05/13/20 10:05	05/13/20 15:00	1.09	14.00	05/13/20 17:17	1.19	14.00	

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GC

METHOD: EPA 8082A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-FB-2005121245	A0E0347-01	WQ
PDI-RB-2005121245	A0E0347-02	WQ

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 
Name: David G. Jack

Forms Created: 7/7/2020 12:31PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Apex Laboratories **SDG:** Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC **Project:** Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Water

Analyte	MDL	MRL	Units
Aroclor 1016	0.0200	0.0400	ug/L
Aroclor 1221	0.0200	0.0400	ug/L
Aroclor 1232	0.0200	0.0400	ug/L
Aroclor 1242	0.0200	0.0400	ug/L
Aroclor 1248	0.0200	0.0400	ug/L
Aroclor 1254	0.0200	0.0400	ug/L
Aroclor 1260	0.0200	0.0400	ug/L
Aroclor 1262	0.0200	0.0400	ug/L
Aroclor 1268	0.0200	0.0400	ug/L

Note: MDLs are listed only if the corresponding analyte was evalutated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-FB-2005121245

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	WQ	Laboratory ID:	A0E0347-01	File ID:	ECD6F022.D
Sampled:	05/12/20 12:45	Prepared:	05/15/20 10:24	Analyzed:	05/18/20 17:52
		Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1070 mL / 2 mL

Batch: 0050585 Sequence: 0E18036 Calibration: A0C3001 Instrument: DUALECD6F

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
12674-11-2	Aroclor 1016	1	0.0187	U
11104-28-2	Aroclor 1221	1	0.0187	U
11141-16-5	Aroclor 1232	1	0.0187	U
53469-21-9	Aroclor 1242	1	0.0187	U
12672-29-6	Aroclor 1248	1	0.0187	U
11097-69-1	Aroclor 1254	1	0.0187	U
11096-82-5	Aroclor 1260	1	0.0187	U
37324-23-5	Aroclor 1262	1	0.0187	U
11100-14-4	Aroclor 1268	1	0.0187	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	0.467	0.493	105	40 - 135	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-RB-2005121245

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	WQ	Laboratory ID:	A0E0347-02	File ID:	ECD6F023.D
Sampled:	05/12/20 12:45	Prepared:	05/15/20 10:24	Analyzed:	05/18/20 18:10
		Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1060 mL / 2 mL

Batch: 0050585 Sequence: 0E18036 Calibration: A0C3001 Instrument: DUALECD6F

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
12674-11-2	Aroclor 1016	1	0.0189	U
11104-28-2	Aroclor 1221	1	0.0189	U
11141-16-5	Aroclor 1232	1	0.0189	U
53469-21-9	Aroclor 1242	1	0.0189	U
12672-29-6	Aroclor 1248	1	0.0189	U
11097-69-1	Aroclor 1254	1	0.0189	U
11096-82-5	Aroclor 1260	1	0.0189	U
37324-23-5	Aroclor 1262	1	0.0189	U
11100-14-4	Aroclor 1268	1	0.0189	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	0.472	0.476	101	40 - 135	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Batch: 0050585 Batch Matrix: Water
Preparation: EPA 3510C (Neutral pH)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0050585-BLK1	ECD6F019.D	05/15/20 10:24	
LCS	0050585-BS1	ECD6F020.D	05/15/20 10:24	
LCS Dup	0050585-BSD1	ECD6F021.D	05/15/20 10:24	
PDI-FB-2005121245	A0E0347-01	ECD6F022.D	05/15/20 10:24	
PDI-RB-2005121245	A0E0347-02	ECD6F023.D	05/15/20 10:24	

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET

EPA 8082A

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Water	Laboratory ID:	0050585-BLK1	File ID:	ECD6F019.D
Prepared:	05/15/20 10:24	Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1100 mL / 2 mL
Analyzed:	05/18/20 16:59	Instrument:	DUALECD6F		
Batch:	0050585	Sequence:	0E18036	Calibration:	A0C3001

CAS NO.	COMPOUND	CONC. (ug/L)	Q
12674-11-2	Aroclor 1016	0.0182	U
11104-28-2	Aroclor 1221	0.0182	U
11141-16-5	Aroclor 1232	0.0182	U
53469-21-9	Aroclor 1242	0.0182	U
12672-29-6	Aroclor 1248	0.0182	U
11097-69-1	Aroclor 1254	0.0182	U
11096-82-5	Aroclor 1260	0.0182	U
37324-23-5	Aroclor 1262	0.0182	U
11100-14-4	Aroclor 1268	0.0182	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	0.455	0.474	104	40 - 135	

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050585	Laboratory ID:	0050585-BS1
Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1000 mL / 2 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	2.50	2.28	91	46 - 129
Aroclor 1260	2.50	2.57	103	45 - 134

* = Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050585	Laboratory ID:	0050585-BSD1
Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1000 mL / 2 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS
Aroclor 1016	2.50	2.40	96	5	30	46 - 129
Aroclor 1260	2.50	2.77	111	7	30	45 - 134

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0C26027	Instrument:	DUALECD6F
Matrix:	Water	Calibration:	A0C3001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0C26027-ICB1	ECD6F006.D	03/26/20 08:31
Cal Standard	0C26027-CAL1	ECD6F007.D	03/26/20 08:49
Cal Standard	0C26027-CAL2	ECD6F008.D	03/26/20 09:06
Cal Standard	0C26027-CAL3	ECD6F009.D	03/26/20 09:24
Cal Standard	0C26027-CAL4	ECD6F010.D	03/26/20 09:42
Cal Standard	0C26027-CAL5	ECD6F011.D	03/26/20 09:59
Cal Standard	0C26027-CAL6	ECD6F012.D	03/26/20 10:17
Cal Standard	0C26027-CAL7	ECD6F013.D	03/26/20 10:35
Initial Cal Check	0C26027-ICV1	ECD6F015.D	03/26/20 16:11
Cal Standard	0C26027-CAL8	ECD6F016.D	03/26/20 16:29
Cal Standard	0C26027-CAL9	ECD6F017.D	03/26/20 16:46
Cal Standard	0C26027-CALA	ECD6F018.D	03/26/20 17:04
Cal Standard	0C26027-CALB	ECD6F019.D	03/26/20 17:22
Cal Standard	0C26027-CALC	ECD6F020.D	03/26/20 17:39
Cal Standard	0C26027-CALD	ECD6F021.D	03/26/20 17:57
Cal Standard	0C26027-CALE	ECD6F022.D	03/26/20 18:15
Initial Cal Check	0C26027-ICV2	ECD6F023.D	03/26/20 18:33
Initial Cal Check	0C26027-ICV3	ECD6F024.D	03/26/20 18:50
Initial Cal Check	0C26027-ICV4	ECD6F025.D	03/26/20 19:08
Initial Cal Check	0C26027-ICV5	ECD6F026.D	03/26/20 19:26

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E18036	Instrument:	DUALECD6F
Matrix:	Water	Calibration:	A0C3001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0E18036-CCV2	ECD6F016.D	05/18/20 16:06
Calibration Blank	0E18036-CCB2	ECD6F017.D	05/18/20 16:24
Blank	0050585-BLK1	ECD6F019.D	05/18/20 16:59
LCS	0050585-BS1	ECD6F020.D	05/18/20 17:17
LCS Dup	0050585-BSD1	ECD6F021.D	05/18/20 17:35
PDI-FB-2005121245	A0E0347-01	ECD6F022.D	05/18/20 17:52
PDI-RB-2005121245	A0E0347-02	ECD6F023.D	05/18/20 18:10
Calibration Check	0E18036-CCV3	ECD6F028.D	05/18/20 19:38
Calibration Blank	0E18036-CCB3	ECD6F029.D	05/18/20 19:56

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

INITIAL CALIBRATION DATA (Summary)

EPA 8082A

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0C3001 Date: 03/30/20 09:06 Instrument: DUALECD6F

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor 1016		Ave						20	
Aroclor 1221		Ave						20	
Aroclor 1232		Ave						20	
Aroclor 1242		Ave						20	
Aroclor 1248		Ave						20	
Aroclor 1254		Ave						20	
Aroclor 1260		Ave						20	
Aroclor 1262		Ave						20	
Aroclor 1268		Ave						20	
Decachlorobiphenyl (Surr)	171697.4	Ave	10.93101	10.18029	1.534707E-02			20	

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a2) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0C3001

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te

Instrument: DUALECD6F

Calibration Date: 03/30/20 09:06

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
1016 (1)	20	8165.15	50	7597.88	100	7335.69	200	6657.295	500	6597.976	1000	6626.227
1016 (2)	20	12699.25	50	12584.68	100	12858.23	200	11980.4	500	12552.47	1000	12970.6
1016 (3)	20	7649.65	50	7367.7	100	6956.11	200	6629.07	500	6806.08	1000	6668.552
1016 (4)	20	7800.65	50	7358.48	100	7109.28	200	6467.12	500	6451.69	1000	6426.72
1016 (5)	20	8096.85	50	7700.32	100	7309.89	200	6942.165	500	7089.454	1000	7100.299
1016 (6)	20	5680.95	50	5426.04	100	5376.65	200	4904.265	500	4989.682	1000	4961.279
Aroclor 1016	20	~~0~~	50	~~0~~	100	~~0~~	200	~~0~~	500	~~0~~	1000	~~0~~
1260 (1)	20	15361.4	50	14160.5	100	14283.37	200	13583.62	500	14043.6	1000	14113.36
1260 (2)	20	19717.95	50	18733.84	100	18492.57	200	17573.38	500	18305.32	1000	17711.36
1260 (3)	20	14113.5	50	13621.74	100	13914.66	200	12928.28	500	13238.27	1000	12925.75
1260 (4)	20	31709.2	50	31421.66	100	32030.39	200	31281.52	500	32379.08	1000	34191.08
1260 (5)	20	19061.6	50	19134.78	100	19226.04	200	18536.19	500	19366.03	1000	20280.07
1260 (6)	20	7428.35	50	7294.8	100	7368.93	200	6984.29	500	6892.298	1000	7107.312
Aroclor 1260	20	~~0~~	50	~~0~~	100	~~0~~	200	~~0~~	500	~~0~~	1000	~~0~~
Decachlorobiphenyl (Surr)	10	158632.2	25	156827.4	50	163434	100	161936.7	250	163236.1	500	200600.6

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration:	A0C3001	Instrument:	DUALECD6F
Matrix:		Calibration Date:	03/30/20 09:06

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
1016 (1)	1500	6364.406										
1016 (2)	1500	12996.29										
1016 (3)	1500	6708.327										
1016 (4)	1500	6228.198										
1016 (5)	1500	6833.973										
1016 (6)	1500	4944.412										
Aroclor 1016	1500	0										
1254 (1)											500	11206.6
1254 (2)											500	13805.61
1254 (3)											500	21110.48
1254 (4)											500	13377.74
1254 (5)											500	14191.62
1254 (6)											500	4428.966
Aroclor 1254											500	0
1260 (1)	1500	14034.53										
1260 (2)	1500	18258.34										
1260 (3)	1500	12983.28										
1260 (4)	1500	36398.07										
1260 (5)	1500	20703.01										
1260 (6)	1500	7098.473										
Aroclor 1260	1500	0										
Decachlorobiphenyl (Surr)	800	197214.5			200	0	200	0	200	0	200	0

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0C3001
Instrument: DUALECD6F
Matrix:
Calibration Date: 03/30/20 09:06

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
1262 (1)	500	14040.67										
1262 (2)	500	19529.19										
1262 (3)	500	16322.65										
1262 (4)	500	36791.4										
1262 (5)	500	20192.48										
1262 (6)	500	10022.4										
Aroclor 1262	500	0										
Decachlorobiphenyl (Surr)	200	0	200	0								

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD6F	Calibration:	A0C3001
Lab File ID:	ECD6F015.D		
Sequence:	0C26027	Inject Date:	03/26/20
Lab Sample ID:	0C26027-ICV1	Inject Time:	16:11

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1016	500	497	-0.6	70 - 130
Aroclor 1260	500	484	-3.1	70 - 130
Decachlorobiphenyl (Surr)	200	212	6.0	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD6F	Calibration:	A0C3001
Lab File ID:	ECD6F023.D		
Sequence:	0C26027	Inject Date:	03/26/20
Lab Sample ID:	0C26027-ICV2	Inject Time:	18:33

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1221	1000	960	-4.0	70 - 130
Aroclor 1254	500	500	-0.08	70 - 130
Decachlorobiphenyl (Surr)	80.0	78.4	-2.0	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD6F	Calibration:	A0C3001
Lab File ID:	ECD6F024.D		
Sequence:	0C26027	Inject Date:	03/26/20
Lab Sample ID:	0C26027-ICV3	Inject Time:	18:50

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1232	500	553	10.7	70 - 130
Aroclor 1262	500	540	7.9	70 - 130
Decachlorobiphenyl (Surr)	80.0	85.8	7.3	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD6F	Calibration:	A0C3001
Lab File ID:	ECD6F025.D		
Sequence:	0C26027	Inject Date:	03/26/20
Lab Sample ID:	0C26027-ICV4	Inject Time:	19:08

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1242	500	542	8.4	70 - 130
Aroclor 1268	500	511	2.2	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD6F	Calibration:	A0C3001
Lab File ID:	ECD6F026.D		
Sequence:	0C26027	Inject Date:	03/26/20
Lab Sample ID:	0C26027-ICV5	Inject Time:	19:26

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1248	500	511	2.1	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD6F	Calibration:	A0C3001
Lab File ID:	ECD6F016.D	Calibration Date:	03/30/20 09:06
Sequence:	0E18036	Injection Date:	05/18/20
Lab Sample ID:	0E18036-CCV2	Injection Time:	16:06

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	593				18.6	20
Aroclor 1260	Ave	500	618				23.6	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD6F	Calibration:	A0C3001
Lab File ID:	ECD6F028.D	Calibration Date:	03/30/20 09:06
Sequence:	0E18036	Injection Date:	05/18/20
Lab Sample ID:	0E18036-CCV3	Injection Time:	19:38

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	556				11.2	20
Aroclor 1260	Ave	500	607				21.3	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0C26027	Instrument:	DUALECD6F
Matrix:	Water	Calibration:	A0C3001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0C26027-ICV1)			Lab File ID: ECD6F015.D		Analyzed: 03/26/20 16:11			
Decachlorobiphenyl (Surr)	200	106	70 - 130	10.183	10.18029	0.0027	+/-1.0	
Initial Cal Check (0C26027-ICV2)			Lab File ID: ECD6F023.D		Analyzed: 03/26/20 18:33			
Decachlorobiphenyl (Surr)	80.0	98	70 - 130	10.18	10.18029	-0.0003	+/-1.0	
Initial Cal Check (0C26027-ICV3)			Lab File ID: ECD6F024.D		Analyzed: 03/26/20 18:50			
Decachlorobiphenyl (Surr)	80.0	107	70 - 130	10.179	10.18029	-0.0013	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E18036	Instrument:	DUALECD6F
Matrix:	Water	Calibration:	A0C3001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0E18036-CCV2)			Lab File ID: ECD6F016.D		Analyzed: 05/18/20 16:06			
Decachlorobiphenyl (Surr)	250	116	80 - 120	10.18	10.18029	-0.0003	+/-1.0	
Calibration Blank (0E18036-CCB2)			Lab File ID: ECD6F017.D		Analyzed: 05/18/20 16:24			
Decachlorobiphenyl (Surr)	100	111	40 - 135	10.179	10.18029	-0.0013	+/-1.0	
Blank (0050585-BLK1)			Lab File ID: ECD6F019.D		Analyzed: 05/18/20 16:59			
Decachlorobiphenyl (Surr)	0.455	104	40 - 135	10.179	10.18029	-0.0013	+/-1.0	
LCS (0050585-BS1)			Lab File ID: ECD6F020.D		Analyzed: 05/18/20 17:17			
Decachlorobiphenyl (Surr)	0.500	106	40 - 135	10.179	10.18029	-0.0013	+/-1.0	
LCS Dup (0050585-BSD1)			Lab File ID: ECD6F021.D		Analyzed: 05/18/20 17:35			
Decachlorobiphenyl (Surr)	0.500	108	40 - 135	10.18	10.18029	-0.0003	+/-1.0	
PDI-FB-2005121245 (A0E0347-01)			Lab File ID: ECD6F022.D		Analyzed: 05/18/20 17:52			
Decachlorobiphenyl (Surr)	0.467	105	40 - 135	10.178	10.18029	-0.0023	+/-1.0	
PDI-RB-2005121245 (A0E0347-02)			Lab File ID: ECD6F023.D		Analyzed: 05/18/20 18:10			
Decachlorobiphenyl (Surr)	0.472	101	40 - 135	10.179	10.18029	-0.0013	+/-1.0	
Calibration Check (0E18036-CCV3)			Lab File ID: ECD6F028.D		Analyzed: 05/18/20 19:38			
Decachlorobiphenyl (Surr)	250	120	80 - 120	10.178	10.18029	-0.0023	+/-1.0	
Calibration Blank (0E18036-CCB3)			Lab File ID: ECD6F029.D		Analyzed: 05/18/20 19:56			
Decachlorobiphenyl (Surr)	100	113	40 - 135	10.176	10.18029	-0.0043	+/-1.0	

HOLDING TIME SUMMARY

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-FB-2005121245	05/12/20 12:45	05/13/20 10:05	05/15/20 10:24	2.90	365.00	05/18/20 17:52	3.31	40.00	
PDI-RB-2005121245	05/12/20 12:45	05/13/20 10:05	05/15/20 10:24	2.90	365.00	05/18/20 18:10	3.32	40.00	

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GC

METHOD: EPA 8081B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-FB-2005121245	A0E0347-01	WQ
PDI-RB-2005121245	A0E0347-02	WQ

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 
Name: David G. Jack

Forms Created: 7/7/2020 12:31PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Water

Analyte	MDL	MRL	Units
2,4'-DDD	0.00500	0.0100	ug/L
2,4'-DDE	0.00500	0.0100	ug/L
2,4'-DDT	0.00500	0.0100	ug/L
4,4'-DDD	0.00500	0.0100	ug/L
4,4'-DDE	0.00500	0.0100	ug/L
4,4'-DDT	0.00500	0.0100	ug/L

Note: MDLs are listed only if the corresponding analyte was evalutated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-FB-2005121245

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	WQ	Laboratory ID:	A0E0347-01	File ID:	ECD3-05282014.D
Sampled:	05/12/20 12:45	Prepared:	05/18/20 14:41	Analyzed:	05/28/20 16:50
		Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1060 mL / 5 mL

Batch: 0050653 Sequence: 0E28051 Calibration: A0D1308 Instrument: DUALECD3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
53-19-0	2,4'-DDD	1	0.00472	U
3424-82-6	2,4'-DDE	1	0.00472	U
789-02-6	2,4'-DDT	1	0.00472	U
72-54-8	4,4'-DDD	1	0.00472	U
72-55-9	4,4'-DDE	1	0.00472	U
50-29-3	4,4'-DDT	1	0.00472	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr)	0.472	0.284	60	25 - 140	
Decachlorobiphenyl (Surr)	0.472	0.242	51	30 - 135	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-RB-2005121245

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	WQ	Laboratory ID:	A0E0347-02	File ID:	ECD3-05282015.D
Sampled:	05/12/20 12:45	Prepared:	05/18/20 14:41	Analyzed:	05/28/20 17:07
		Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1060 mL / 5 mL

Batch: 0050653 Sequence: 0E28051 Calibration: A0D1308 Instrument: DUALECD3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
53-19-0	2,4'-DDD	1	0.00472	U
3424-82-6	2,4'-DDE	1	0.00472	U
789-02-6	2,4'-DDT	1	0.00472	U
72-54-8	4,4'-DDD	1	0.00472	U
72-55-9	4,4'-DDE	1	0.00472	U
50-29-3	4,4'-DDT	1	0.00472	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr)	0.472	0.296	63	25 - 140	
Decachlorobiphenyl (Surr)	0.472	0.258	55	30 - 135	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0050653
Batch Matrix: Water
Preparation: EPA 3510C (Neutral pH)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0050653-BLK1	ECD3-05282011.D	05/18/20 14:41	
LCS	0050653-BS1	ECD3-05282012.D	05/18/20 14:41	
LCS Dup	0050653-BSD1	ECD3-05282013.D	05/18/20 14:41	
PDI-FB-2005121245	A0E0347-01	ECD3-05282014.D	05/18/20 14:41	
PDI-RB-2005121245	A0E0347-02	ECD3-05282015.D	05/18/20 14:41	

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET

EPA 8081B

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Water	Laboratory ID:	0050653-BLK1	File ID:	ECD3-05282011.D
Prepared:	05/18/20 14:41	Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1100 mL / 5 mL
Analyzed:	05/28/20 15:58	Instrument:	DUALECD3		
Batch:	0050653	Sequence:	0E28051	Calibration:	A0D1308

CAS NO.	COMPOUND	CONC. (ug/L)	Q
53-19-0	2,4'-DDD	0.00455	U
3424-82-6	2,4'-DDE	0.00455	U
789-02-6	2,4'-DDT	0.00455	U
72-54-8	4,4'-DDD	0.00455	U
72-55-9	4,4'-DDE	0.00455	U
50-29-3	4,4'-DDT	0.00455	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr)	0.455	0.206	45	25 - 140	
Decachlorobiphenyl (Surr)	0.455	0.262	58	30 - 135	

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050653	Laboratory ID:	0050653-BS1
Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1000 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. (*=Out)	QC LIMITS REC.
2,4'-DDD	0.500	0.483	97	60 - 140
2,4'-DDE	0.500	0.436	87	60 - 140
2,4'-DDT	0.500	0.530	106	60 - 140
4,4'-DDD	0.500	0.466	93	60 - 140
4,4'-DDE	0.500	0.459	92	60 - 140
4,4'-DDT	0.500	0.449	90	60 - 140

* = Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050653	Laboratory ID:	0050653-BSD1
Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1000 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	
2,4'-DDD	0.500	0.490	98	1	30	60 - 140
2,4'-DDE	0.500	0.475	95	8	30	60 - 140
2,4'-DDT	0.500	0.521	104	2	30	60 - 140
4,4'-DDD	0.500	0.462	92	1	30	60 - 140
4,4'-DDE	0.500	0.478	96	4	30	60 - 140
4,4'-DDT	0.500	0.437	87	3	30	60 - 140

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0D10031	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0D10031-ICB1	ECD3-04102004.D	04/10/20 12:05
Cal Standard	0D10031-CAL1	ECD3-04102005.D	04/10/20 12:22
Cal Standard	0D10031-CAL2	ECD3-04102006.D	04/10/20 12:39
Cal Standard	0D10031-CAL3	ECD3-04102007.D	04/10/20 12:56
Cal Standard	0D10031-CAL4	ECD3-04102008.D	04/10/20 13:14
Cal Standard	0D10031-CAL5	ECD3-04102009.D	04/10/20 13:31
Cal Standard	0D10031-CAL6	ECD3-04102010.D	04/10/20 13:48
Cal Standard	0D10031-CAL7	ECD3-04102011.D	04/10/20 14:05
Cal Standard	0D10031-CAL8	ECD3-04102012.D	04/10/20 14:22
Cal Standard	0D10031-CAL9	ECD3-04102013.D	04/10/20 14:40
Initial Cal Check	0D10031-ICV1	ECD3-04102015.D	04/10/20 15:14
Cal Standard	0D10031-CALA	ECD3-04102016.D	04/10/20 15:31
Cal Standard	0D10031-CALB	ECD3-04102017.D	04/10/20 15:48
Cal Standard	0D10031-CALC	ECD3-04102018.D	04/10/20 16:06
Cal Standard	0D10031-CALD	ECD3-04102019.D	04/10/20 16:23
Cal Standard	0D10031-CALE	ECD3-04102020.D	04/10/20 16:40
Cal Standard	0D10031-CALF	ECD3-04102021.D	04/10/20 16:57
Cal Standard	0D10031-CALG	ECD3-04102022.D	04/10/20 17:14
Cal Standard	0D10031-CALH	ECD3-04102023.D	04/10/20 17:31
Cal Standard	0D10031-CALI	ECD3-04102024.D	04/10/20 17:49
Initial Cal Check	0D10031-ICV2	ECD3-04102026.D	04/10/20 18:23

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E28051	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0E28051-CCV1	ECD3-05282007.D	05/28/20 14:32
Calibration Check	0E28051-CCV2	ECD3-05282008.D	05/28/20 14:50
Calibration Blank	0E28051-CCB1	ECD3-05282009.D	05/28/20 15:07
Blank	0050653-BLK1	ECD3-05282011.D	05/28/20 15:58
LCS	0050653-BS1	ECD3-05282012.D	05/28/20 16:15
LCS Dup	0050653-BSD1	ECD3-05282013.D	05/28/20 16:33
PDI-FB-2005121245	A0E0347-01	ECD3-05282014.D	05/28/20 16:50
PDI-RB-2005121245	A0E0347-02	ECD3-05282015.D	05/28/20 17:07
Calibration Check	0E28051-CCV3	ECD3-05282020.D	05/28/20 18:34
Calibration Check	0E28051-CCV4	ECD3-05282021.D	05/28/20 18:51
Calibration Blank	0E28051-CCB2	ECD3-05282022.D	05/28/20 19:08
Calibration Check	0E28051-CCV5	ECD3-05282040.D	05/29/20 00:41
Calibration Check	0E28051-CCV6	ECD3-05282041.D	05/29/20 00:58
Calibration Blank	0E28051-CCB3	ECD3-05282042.D	05/29/20 01:15

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

INITIAL CALIBRATION DATA (Summary)

EPA 8081B

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0D1308 Date: 04/13/20 15:25 Instrument: DUALECD3

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD	89307.32	XXX	13.78791	7.898111	1.598432E-02				
2,4'-DDE	98516.12	XXX	11.22848	7.521	2.351506E-02				
2,4'-DDT	75279.45	Ave	8.596744	8.081889	8.523939E-03			20	
4,4'-DDD	121405	Ave	6.232612	8.200222	1.283599E-02			20	
4,4'-DDE	144252.5	Ave	6.206514	7.773333	6.988753E-03			20	
4,4'-DDT	91546.28	XXX	19.93372	8.398889	7.56836E-03				
2,4,5,6-TCMX (Surr)	148107.1	Ave	6.310794	5.562111	2.006371E-02			20	
Decachlorobiphenyl (Surr)	120280.6	XXX	14.04069	9.807	8.727167E-03				

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a2) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0D1308

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te

Instrument: DUALECD3

Calibration Date: 04/13/20 15:25

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
4,4'-DDD	0.5	135350	1	118335	2	114551	5	116080.6	10	114385.8	25	122264.2
4,4'-DDD [2C]	0.5	117444	1	101471	2	92223.5	5	93297.8	10	88969.2	25	88490.04
4,4'-DDE	0.5	153276	1	132356	2	132289.5	5	142562.8	10	138247.6	25	147017
4,4'-DDE [2C]	0.5	128668	1	115967	2	115455	5	116955.6	10	113728.8	25	115097.3
4,4'-DDT	0.5	74814	1	73450	2	72721	5	80515	10	87548.3	25	98250.52
4,4'-DDT [2C]	0.5	49558	1	49721	2	44665	5	52033	10	57869.4	25	59859.88
2,4,5,6-TCMX (Surr)	0.5	171498	1	150599	2	147314.5	5	145504.8	10	144995.5	25	144829.2
2,4,5,6-TCMX (Surr) [2C]	0.5	146014	1	127191	2	121084.5	5	120362.4	10	116465.1	25	111743.8
Decachlorobiphenyl (Surr)	0.5	157490	1	135418	2	124797	5	117403.2	10	113052.7	25	109084.3
Decachlorobiphenyl (Surr) [2C]	0.5	100898	1	81619	2	76587.5	5	72873.2	10	70173.7	25	66379.4

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0D1308
Instrument: DUALECD3
Matrix:
Calibration Date: 04/13/20 15:25

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
2,4'-DDD							0.5	113088	1	106028	2	93679
2,4'-DDD [2C]							0.5	101166	1	93331	2	79054
2,4'-DDE							0.5	119766	1	114378	2	98851.5
2,4'-DDE [2C]							0.5	109508	1	102014	2	87910.5
2,4'-DDT							0.5	83314	1	77977	2	66988.5
2,4'-DDT [2C]							0.5	64868	1	56936	2	48302
4,4'-DDD	50	116278.3	100	124287.9	200	131111.9						
4,4'-DDD [2C]	50	88654.62	100	91583.53	200	87163.65						
4,4'-DDE	50	143019.7	100	152928.6	200	156575						
4,4'-DDE [2C]	50	108553	100	113676.3	200	108264.3						
4,4'-DDT	50	101815.7	100	111186.7	200	123615.3						
4,4'-DDT [2C]	50	63783.72	100	70159.04	200	75293.8						
2,4,5,6-TCMX (Surr)	50	138171.2	100	145089.6	200	144961.7						
2,4,5,6-TCMX (Surr) [2C]	50	107016.2	100	109426.7	200	102072.5						
Decachlorobiphenyl (Surr)	50	103451.8	100	109675.1	200	112153.1						
Decachlorobiphenyl (Surr) [2C]	50	63540.54	100	64967.05	200	62203.3						

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration:	A0D1308	Instrument:	DUALECD3
Matrix:		Calibration Date:	04/13/20 15:25

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
2,4'-DDD	5	80488.4	10	80976	25	84049.12	50	80039.06	100	82008.34	200	83410
2,4'-DDD [2C]	5	68430.8	10	66550.3	25	65943.16	50	64103.9	100	63894.5	200	63526.25
2,4'-DDE	5	89799.2	10	88908.7	25	94809.64	50	90378.34	100	94201.36	200	95552.3
2,4'-DDE [2C]	5	79088.8	10	77610.5	25	77530.4	50	73197.7	100	73192.58	200	71315.7
2,4'-DDT	5	68792.2	10	66539.8	25	75635.36	50	76121.52	100	79068.36	200	83078.35
2,4'-DDT [2C]	5	48078.6	10	47215.9	25	53266.96	50	52898.36	100	54268.18	200	56923.65

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-04102015.D		
Sequence:	0D10031	Inject Date:	04/10/20
Lab Sample ID:	0D10031-ICV1	Inject Time:	15:14

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
4,4'-DDD	50.0	51.3	2.6	70 - 130
4,4'-DDD [2C]	50.0	47.0	-6.0	70 - 130
4,4'-DDE	50.0	52.1	4.2	70 - 130
4,4'-DDE [2C]	50.0	47.8	-4.4	70 - 130
4,4'-DDT	50.0	52.9	5.9	70 - 130
4,4'-DDT [2C]	50.0	54.0	8.0	70 - 130
2,4,5,6-TCMX (Surr)	50.0	48.3	-3.4	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	51.1	2.2	70 - 130
Decachlorobiphenyl (Surr)	50.0	50.0	0.01	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	49.8	-0.5	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-04102026.D		
Sequence:	0D10031	Inject Date:	04/10/20
Lab Sample ID:	0D10031-ICV2	Inject Time:	18:23

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,4'-DDD	50.0	50.3	0.5	70 - 130
2,4'-DDD [2C]	50.0	49.4	-1.3	70 - 130
2,4'-DDE	50.0	51.5	2.9	70 - 130
2,4'-DDE [2C]	50.0	51.6	3.3	70 - 130
2,4'-DDT	50.0	59.0	17.9	70 - 130
2,4'-DDT [2C]	50.0	58.0	16.0	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-05282007.D	Calibration Date:	04/13/20 15:25
Sequence:	0E28051	Injection Date:	05/28/20
Lab Sample ID:	0E28051-CCV1	Injection Time:	14:32

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	48.9		121405	118825	-2.1	20
4,4'-DDD [2C]	Ave	50.0	39.8		94366.37	75186.7	-20.3*	20
4,4'-DDE	Ave	50.0	52.7		144252.5	151976.3	5.4	20
4,4'-DDE [2C]	Ave	50.0	46.1		115151.7	106229.4	-7.7	20
4,4'-DDT	XXX	50.0	44.1	-11.8				20
4,4'-DDT [2C]	XXX	50.0	36.3	-27.3 *				20

** Quadratic Curve fit may be weighted (1/a or 1/a2). * = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-05282008.D	Calibration Date:	04/13/20 15:25
Sequence:	0E28051	Injection Date:	05/28/20
Lab Sample ID:	0E28051-CCV2	Injection Time:	14:50

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	XXX	50.0	51.1	2.2				20
2,4'-DDD [2C]	XXX	50.0	42.9	-14.3				20
2,4'-DDE	XXX	50.0	54.3	8.7				20
2,4'-DDE [2C]	XXX	50.0	46.9	-6.3				20
2,4'-DDT	Ave	50.0	48.3		75279.45	72738.9	-3.4	20
2,4'-DDT [2C]	Ave	50.0	37.6		53639.74	40329.54	-24.8*	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-05282020.D	Calibration Date:	04/13/20 15:25
Sequence:	0E28051	Injection Date:	05/28/20
Lab Sample ID:	0E28051-CCV3	Injection Time:	18:34

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	100	96.7		121405	117347	-3.3	20
4,4'-DDD [2C]	Ave	100	78.4		94366.37	74004.82	-21.6*	20
4,4'-DDE	Ave	100	103		144252.5	148839.8	3.2	20
4,4'-DDE [2C]	Ave	100	88.2		115151.7	101612.5	-11.8	20
4,4'-DDT	XXX	100	94.9	-5.1				20
4,4'-DDT [2C]	XXX	100	83.2	-16.8				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-05282021.D	Calibration Date:	04/13/20 15:25
Sequence:	0E28051	Injection Date:	05/28/20
Lab Sample ID:	0E28051-CCV4	Injection Time:	18:51

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	XXX	100	96.2	-3.8				20
2,4'-DDD [2C]	XXX	100	82.9	-17.1				20
2,4'-DDE	XXX	100	102	1.5				20
2,4'-DDE [2C]	XXX	100	88.1	-11.9				20
2,4'-DDT	Ave	100	93.5		75279.45	70405.18	-6.5	20
2,4'-DDT [2C]	Ave	100	75.8		53639.74	40656.23	-24.2*	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-05282040.D	Calibration Date:	04/13/20 15:25
Sequence:	0E28051	Injection Date:	05/29/20
Lab Sample ID:	0E28051-CCV5	Injection Time:	00:41

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	49.8		121405	120897	-0.4	20
4,4'-DDD [2C]	Ave	50.0	41.3		94366.37	77909.56	-17.4	20
4,4'-DDE	Ave	50.0	50.6		144252.5	145918.6	1.2	20
4,4'-DDE [2C]	Ave	50.0	42.8		115151.7	98615.8	-14.4	20
4,4'-DDT	XXX	50.0	51.2	2.4				20
4,4'-DDT [2C]	XXX	50.0	45.8	-8.3				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-05282041.D	Calibration Date:	04/13/20 15:25
Sequence:	0E28051	Injection Date:	05/29/20
Lab Sample ID:	0E28051-CCV6	Injection Time:	00:58

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	XXX	50.0	51.1	2.1				20
2,4'-DDD [2C]	XXX	50.0	44.4	-11.1				20
2,4'-DDE	XXX	50.0	52.6	5.1				20
2,4'-DDE [2C]	XXX	50.0	45.5	-9.0				20
2,4'-DDT	Ave	50.0	53.6		75279.45	80645.08	7.1	20
2,4'-DDT [2C]	Ave	50.0	46.7		53639.74	50098.7	-6.6	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0D10031	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0D10031-ICV1)				Lab File ID: ECD3-04102015.D		Analyzed: 04/10/20 15:14		
2,4,5,6-TCMX (Surr)	50.0	97	70 - 130	5.562	5.562111	-0.0001	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	102	70 - 130	6.062	6.061333	0.0007	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	100	70 - 130	9.807	9.807	0.0000	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	100	70 - 130	10.679	10.67878	0.0002	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E28051	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0E28051-CCV1)			Lab File ID: ECD3-05282007.D		Analyzed: 05/28/20 14:32			
2,4,5,6-TCMX (Surr)	50.0	99	80 - 120	5.501	5.562111	-0.0611	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	85	80 - 120	6.018	6.061333	-0.0433	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	99	80 - 120	9.731	9.807	-0.0760	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	100	80 - 120	10.612	10.67878	-0.0668	+/-1.0	
Calibration Blank (0E28051-CCB1)			Lab File ID: ECD3-05282009.D		Analyzed: 05/28/20 15:07			
2,4,5,6-TCMX (Surr)	100	97	42 - 129	5.504	5.562111	-0.0581	+/-1.0	
Decachlorobiphenyl (Surr)	100	89	55 - 130	9.733	9.807	-0.0740	+/-1.0	
Blank (0050653-BLK1)			Lab File ID: ECD3-05282011.D		Analyzed: 05/28/20 15:58			
2,4,5,6-TCMX (Surr)	0.455	45	25 - 140	5.506	5.562111	-0.0561	+/-1.0	
Decachlorobiphenyl (Surr)	0.455	58	30 - 135	9.733	9.807	-0.0740	+/-1.0	
LCS (0050653-BS1)			Lab File ID: ECD3-05282012.D		Analyzed: 05/28/20 16:15			
2,4,5,6-TCMX (Surr)	0.500	51	25 - 140	5.505	5.562111	-0.0571	+/-1.0	
Decachlorobiphenyl (Surr)	0.500	58	30 - 135	9.734	9.807	-0.0730	+/-1.0	
LCS Dup (0050653-BSD1)			Lab File ID: ECD3-05282013.D		Analyzed: 05/28/20 16:33			
2,4,5,6-TCMX (Surr)	0.500	71	25 - 140	5.505	5.562111	-0.0571	+/-1.0	
Decachlorobiphenyl (Surr)	0.500	58	30 - 135	9.733	9.807	-0.0740	+/-1.0	
PDI-FB-2005121245 (A0E0347-01)			Lab File ID: ECD3-05282014.D		Analyzed: 05/28/20 16:50			
2,4,5,6-TCMX (Surr)	0.472	60	25 - 140	5.505	5.562111	-0.0571	+/-1.0	
Decachlorobiphenyl (Surr)	0.472	51	30 - 135	9.733	9.807	-0.0740	+/-1.0	
PDI-RB-2005121245 (A0E0347-02)			Lab File ID: ECD3-05282015.D		Analyzed: 05/28/20 17:07			
2,4,5,6-TCMX (Surr)	0.472	63	25 - 140	5.506	5.562111	-0.0561	+/-1.0	
Decachlorobiphenyl (Surr)	0.472	55	30 - 135	9.734	9.807	-0.0730	+/-1.0	
Calibration Check (0E28051-CCV3)			Lab File ID: ECD3-05282020.D		Analyzed: 05/28/20 18:34			
2,4,5,6-TCMX (Surr)	100	94	80 - 120	5.507	5.562111	-0.0551	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	84	80 - 120	6.024	6.061333	-0.0373	+/-1.0	
Decachlorobiphenyl (Surr)	100	98	80 - 120	9.736	9.807	-0.0710	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	98	80 - 120	10.617	10.67878	-0.0618	+/-1.0	
Calibration Blank (0E28051-CCB2)			Lab File ID: ECD3-05282022.D		Analyzed: 05/28/20 19:08			
2,4,5,6-TCMX (Surr)	100	93	42 - 129	5.507	5.562111	-0.0551	+/-1.0	
Decachlorobiphenyl (Surr)	100	91	55 - 130	9.737	9.807	-0.0700	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E28051	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0E28051-CCV5)			Lab File ID: ECD3-05282040.D		Analyzed: 05/29/20 00:41			
2,4,5,6-TCMX (Surr)	50.0	100	80 - 120	5.498	5.562111	-0.0641	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	73	80 - 120	6.018	6.061333	-0.0433	+/-1.0	*
Decachlorobiphenyl (Surr)	50.0	106	80 - 120	9.728	9.807	-0.0790	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	104	80 - 120	10.609	10.67878	-0.0698	+/-1.0	
Calibration Blank (0E28051-CCB3)			Lab File ID: ECD3-05282042.D		Analyzed: 05/29/20 01:15			
2,4,5,6-TCMX (Surr)	100	100	42 - 129	5.499	5.562111	-0.0631	+/-1.0	
Decachlorobiphenyl (Surr)	100	103	55 - 130	9.729	9.807	-0.0780	+/-1.0	

HOLDING TIME SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-FB-2005121245	05/12/20 12:45	05/13/20 10:05	05/18/20 14:41	6.08	7.00	05/28/20 16:50	10.09	40.00	
PDI-RB-2005121245	05/12/20 12:45	05/13/20 10:05	05/18/20 14:41	6.08	7.00	05/28/20 17:07	10.10	40.00	

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GCMS

METHOD: EPA 8270D

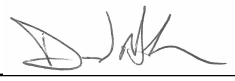
ANALYSES DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-FB-2005121245	A0E0347-01	WQ
PDI-RB-2005121245	A0E0347-02	WQ

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 
Name: David G. Jack

Forms Created: 7/15/2020 5:27PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Water

Analyte	MDL	MRL	Units
Acenaphthene	0.0100	0.0200	ug/L
Acenaphthylene	0.0100	0.0200	ug/L
Anthracene	0.0100	0.0200	ug/L
Benz(a)anthracene	0.0100	0.0200	ug/L
Benzo(a)pyrene	0.0150	0.0300	ug/L
Benzo(b)fluoranthene	0.0150	0.0300	ug/L
Benzo(k)fluoranthene	0.0150	0.0300	ug/L
Benzo(g,h,i)perylene	0.0100	0.0200	ug/L
Chrysene	0.0100	0.0200	ug/L
Dibenz(a,h)anthracene	0.0100	0.0200	ug/L
Fluoranthene	0.0100	0.0200	ug/L
Fluorene	0.0100	0.0200	ug/L
Indeno(1,2,3-cd)pyrene	0.0100	0.0200	ug/L
1-Methylnaphthalene	0.0200	0.0400	ug/L
2-Methylnaphthalene	0.0200	0.0400	ug/L
Naphthalene	0.0200	0.0400	ug/L
Phenanthrene	0.0100	0.0200	ug/L
Pyrene	0.0100	0.0200	ug/L
Carbazole	0.0150	0.0300	ug/L
Dibenzofuran	0.0100	0.0200	ug/L
4-Chloro-3-methylphenol	0.100	0.200	ug/L
2-Chlorophenol	0.0500	0.100	ug/L
2,4-Dichlorophenol	0.0500	0.100	ug/L
2,4-Dimethylphenol	0.0500	0.100	ug/L
2,4-Dinitrophenol	0.250	0.500	ug/L
4,6-Dinitro-2-methylphenol	0.250	0.500	ug/L
2-Methylphenol	0.0250	0.0500	ug/L
3+4-Methylphenol(s)	0.0250	0.0500	ug/L
2-Nitrophenol	0.100	0.200	ug/L
4-Nitrophenol	0.100	0.200	ug/L
Pentachlorophenol (PCP)	0.100	0.200	ug/L
Phenol	0.200	0.400	ug/L
2,3,4,6-Tetrachlorophenol	0.0500	0.100	ug/L
2,3,5,6-Tetrachlorophenol	0.0500	0.100	ug/L
2,4,5-Trichlorophenol	0.0500	0.100	ug/L
2,4,6-Trichlorophenol	0.0500	0.100	ug/L
Bis(2-ethylhexyl)phthalate	0.200	0.400	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Water

Analyte	MDL	MRL	Units
Butyl benzyl phthalate	0.200	0.400	ug/L
Diethylphthalate	0.200	0.400	ug/L
Dimethylphthalate	0.200	0.400	ug/L
Di-n-butylphthalate	0.200	0.400	ug/L
Di-n-octyl phthalate	0.200	0.400	ug/L

Note: MDLs are listed only if the corresponding analyte was evalutated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-FB-2005121245

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	WQ	Laboratory ID:	A0E0347-01RE1	File ID:	J05182012.D
Sampled:	05/12/20 12:45	Prepared:	05/18/20 09:39	Analyzed:	05/18/20 17:08
		Preparation:	EPA 3510C (Acid Extraction	Initial/Final:	1060 mL / 1 mL

Batch: 0050624 Sequence: 0E18040 Calibration: A0E0506 Instrument: SV-GCMS10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.00943	U
208-96-8	Acenaphthylene	1	0.00943	U
120-12-7	Anthracene	1	0.00943	U
56-55-3	Benz(a)anthracene	1	0.00943	U
50-32-8	Benzo(a)pyrene	1	0.0142	U
205-99-2	Benzo(b)fluoranthene	1	0.0142	U
207-08-9	Benzo(k)fluoranthene	1	0.0142	U
191-24-2	Benzo(g,h,i)perylene	1	0.00943	U
218-01-9	Chrysene	1	0.00943	U
53-70-3	Dibenz(a,h)anthracene	1	0.00943	U
206-44-0	Fluoranthene	1	0.00943	U
86-73-7	Fluorene	1	0.00943	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.00943	U
91-57-6	2-Methylnaphthalene	1	0.0189	U
91-20-3	Naphthalene	1	0.0189	U
85-01-8	Phenanthrene	1	0.00943	U
129-00-0	Pyrene	1	0.00943	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.189	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Nitrobenzene-d5 (Surr)	4.72	2.64	56	44 - 120	
2-Fluorobiphenyl (Surr)	4.72	1.93	41	44 - 120	*
Phenol-d6 (Surr)	4.72	0.751	16	10 - 133	
p-Terphenyl-d14 (Surr)	4.72	3.64	77	50 - 134	
2-Fluorophenol (Surr)	4.72	1.05	22	19 - 120	
2,4,6-Tribromophenol (Surr)	4.72	2.94	62	43 - 140	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4 (ISTD)	133519	6.803	141701	6.803	
Naphthalene-d8 (ISTD)	637728	8.076	592157	8.076	
Acenaphthene-d10 (ISTD)	325786	9.862	278615	9.868	
Phenanthrene-d10 (ISTD)	605176	11.381	508244	11.387	
Chrysene-d12 (ISTD)	601140	15.382	518911	15.393	
Perylene-d12 (ISTD)	565306	18.907	470754	18.918	
Dibenz(a,h)anthracene-d14 (ISTD)	469791	21.303	391285	21.319	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-RB-2005121245

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	WQ	Laboratory ID:	A0E0347-02RE2	File ID:	E05202010.D
Sampled:	05/12/20 12:45	Prepared:	05/19/20 15:21	Analyzed:	05/20/20 13:42
		Preparation:	EPA 3510C (Acid Extraction	Initial/Final:	1040 mL / 1 mL

Batch: 0050699 Sequence: 0E20035 Calibration: A0A0704 Instrument: SV-GCMS5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.00962	U
208-96-8	Acenaphthylene	1	0.00962	U
120-12-7	Anthracene	1	0.00962	U
56-55-3	Benz(a)anthracene	1	0.0251	
50-32-8	Benzo(a)pyrene	1	0.0214	J
205-99-2	Benzo(b)fluoranthene	1	0.0268	J
207-08-9	Benzo(k)fluoranthene	1	0.0151	J
191-24-2	Benzo(g,h,i)perylene	1	0.00962	U
218-01-9	Chrysene	1	0.0259	
53-70-3	Dibenz(a,h)anthracene	1	0.00962	U
206-44-0	Fluoranthene	1	0.0913	
86-73-7	Fluorene	1	0.00962	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.00962	U
91-57-6	2-Methylnaphthalene	1	0.0192	U
91-20-3	Naphthalene	1	0.0236	J
85-01-8	Phenanthrene	1	0.0151	J
129-00-0	Pyrene	1	0.111	
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.192	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Nitrobenzene-d5 (Surr)	4.81	1.41	29	44 - 120	*
2-Fluorobiphenyl (Surr)	4.81	1.28	27	44 - 120	*
Phenol-d6 (Surr)	4.81	0.489	10	10 - 133	
p-Terphenyl-d14 (Surr)	4.81	2.77	58	50 - 134	
2-Fluorophenol (Surr)	4.81	0.713	15	19 - 120	*
2,4,6-Tribromophenol (Surr)	4.81	3.45	72	43 - 140	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4 (ISTD)	343343	6.423	333200	6.423	
Naphthalene-d8 (ISTD)	1412457	7.67	1345507	7.669	
Acenaphthene-d10 (ISTD)	693544	9.44	672243	9.445	
Phenanthrene-d10 (ISTD)	1310823	10.954	1294900	10.953	
Chrysene-d12 (ISTD)	1299563	14.564	1289443	14.569	
Perylene-d12 (ISTD)	1196677	18.014	1205981	18.019	
Dibenz(a,h)anthracene-d14 (ISTD)	982727	20.405	990727	20.41	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0050624
Batch Matrix: Water
Preparation: EPA 3510C (Acid Extraction)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0050624-BLK2	J05182007.D	05/18/20 09:39	
LCS	0050624-BS2	J05182008.D	05/18/20 09:39	
LCS Dup	0050624-BSD2	J05182009.D	05/18/20 09:39	
PDI-FB-2005121245	A0E0347-01RE1	J05182012.D	05/18/20 09:39	

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0050699 Batch Matrix: Water
Preparation: EPA 3510C (Acid Extraction)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0050699-BLK1	E05202007.D	05/19/20 15:21	
LCS	0050699-BS1	E05202008.D	05/19/20 15:21	
LCS Dup	0050699-BSD1	E05202009.D	05/19/20 15:21	
PDI-RB-2005121245	A0E0347-02RE2	E05202010.D	05/19/20 15:21	

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Water	Laboratory ID:	0050624-BLK2	File ID:	J05182007.D
Prepared:	05/18/20 09:39	Preparation:	EPA 3510C (Acid Extraction	Initial/Final:	1100 mL / 1 mL
Analyzed:	05/18/20 14:04	Instrument:	SV-GCMS10		
Batch:	0050624	Sequence:	0E18040	Calibration:	A0E0506

CAS NO.	COMPOUND	CONC. (ug/L)	Q
83-32-9	Acenaphthene	0.0116	J
208-96-8	Acenaphthylene	0.0106	J
120-12-7	Anthracene	0.0144	J
56-55-3	Benz(a)anthracene	0.0305	B
50-32-8	Benzo(a)pyrene	0.0538	B
205-99-2	Benzo(b)fluoranthene	0.0435	B
207-08-9	Benzo(k)fluoranthene	0.0180	J
191-24-2	Benzo(g,h,i)perylene	0.0352	B
218-01-9	Chrysene	0.0361	B
53-70-3	Dibenz(a,h)anthracene	0.00909	U
206-44-0	Fluoranthene	0.0678	B
86-73-7	Fluorene	0.0111	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.0297	B
90-12-0	1-Methylnaphthalene	0.0182	U
91-57-6	2-Methylnaphthalene	0.0182	U
91-20-3	Naphthalene	0.0182	U
85-01-8	Phenanthrene	0.0845	B
129-00-0	Pyrene	0.0896	B
86-74-8	Carbazole	0.0136	U
132-64-9	Dibenzofuran	0.00909	U
59-50-7	4-Chloro-3-methylphenol	0.0909	U
95-57-8	2-Chlorophenol	0.0455	U
120-83-2	2,4-Dichlorophenol	0.0455	U
105-67-9	2,4-Dimethylphenol	0.0455	U
51-28-5	2,4-Dinitrophenol	0.227	U
534-52-1	4,6-Dinitro-2-methylphenol	0.227	U
95-48-7	2-Methylphenol	0.0227	U
NA	3+4-Methylphenol(s)	0.0227	U
88-75-5	2-Nitrophenol	0.0909	U
100-02-7	4-Nitrophenol	0.0909	U
87-86-5	Pentachlorophenol (PCP)	0.0909	U
108-95-2	Phenol	0.182	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.0455	U
935-95-5	2,3,5,6-Tetrachlorophenol	0.0455	U
95-95-4	2,4,5-Trichlorophenol	0.0455	U

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Water	Laboratory ID:	0050624-BLK2	File ID:	J05182007.D
Prepared:	05/18/20 09:39	Preparation:	EPA 3510C (Acid Extraction	Initial/Final:	1100 mL / 1 mL
Analyzed:	05/18/20 14:04	Instrument:	SV-GCMS10		
Batch:	0050624	Sequence:	0E18040	Calibration:	A0E0506

CAS NO.	COMPOUND	CONC. (ug/L)	Q
88-06-2	2,4,6-Trichlorophenol	0.0455	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.182	U
85-68-7	Butyl benzyl phthalate	0.182	U
84-66-2	Diethylphthalate	0.182	U
131-11-3	Dimethylphthalate	0.182	U
84-74-2	Di-n-butylphthalate	0.182	U
117-84-0	Di-n-octyl phthalate	0.182	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Nitrobenzene-d5 (Surr)	4.55	3.97	87	44 - 120	
2-Fluorobiphenyl (Surr)	4.55	3.31	73	44 - 120	
Phenol-d6 (Surr)	4.55	1.27	28	10 - 133	
p-Terphenyl-d14 (Surr)	4.55	4.04	89	50 - 134	
2-Fluorophenol (Surr)	4.55	2.07	45	19 - 120	
2,4,6-Tribromophenol (Surr)	4.55	3.84	84	43 - 140	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4 (ISTD)	156216	6.808	141701	6.803	
Naphthalene-d8 (ISTD)	592981	8.076	592157	8.076	
Acenaphthene-d10 (ISTD)	278641	9.862	278615	9.868	
Phenanthrene-d10 (ISTD)	497796	11.381	508244	11.387	
Chrysene-d12 (ISTD)	517206	15.388	518911	15.393	
Perylene-d12 (ISTD)	478591	18.907	470754	18.918	
Dibenz(a,h)anthracene-d14 (ISTD)	402502	21.308	391285	21.319	

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Water	Laboratory ID:	0050699-BLK1	File ID:	E05202007.D
Prepared:	05/19/20 15:21	Preparation:	EPA 3510C (Acid Extraction	Initial/Final:	1100 mL / 1 mL
Analyzed:	05/20/20 11:55	Instrument:	SV-GCMS5		
Batch:	0050699	Sequence:	0E20035	Calibration:	A0A0704

CAS NO.	COMPOUND	CONC. (ug/L)	Q
83-32-9	Acenaphthene	0.00909	U
208-96-8	Acenaphthylene	0.00909	U
120-12-7	Anthracene	0.00909	U
56-55-3	Benz(a)anthracene	0.00909	U
50-32-8	Benzo(a)pyrene	0.0136	U
205-99-2	Benzo(b)fluoranthene	0.0136	U
207-08-9	Benzo(k)fluoranthene	0.0136	U
191-24-2	Benzo(g,h,i)perylene	0.00909	U
218-01-9	Chrysene	0.00909	U
53-70-3	Dibenz(a,h)anthracene	0.00909	U
206-44-0	Fluoranthene	0.00909	U
86-73-7	Fluorene	0.00909	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.00909	U
90-12-0	1-Methylnaphthalene	0.0182	U
91-57-6	2-Methylnaphthalene	0.0182	U
91-20-3	Naphthalene	0.0182	U
85-01-8	Phenanthrene	0.00909	U
129-00-0	Pyrene	0.00909	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.182	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Nitrobenzene-d5 (Surr)	4.55	3.54	78	44 - 120	
2-Fluorobiphenyl (Surr)	4.55	3.08	68	44 - 120	
Phenol-d6 (Surr)	4.55	1.12	25	10 - 133	
p-Terphenyl-d14 (Surr)	4.55	3.95	87	50 - 134	
2-Fluorophenol (Surr)	4.55	1.90	42	19 - 120	
2,4,6-Tribromophenol (Surr)	4.55	3.37	74	43 - 140	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4 (ISTD)	330561	6.423	333200	6.423	
Naphthalene-d8 (ISTD)	1298193	7.67	1345507	7.669	
Acenaphthene-d10 (ISTD)	640178	9.44	672243	9.445	
Phenanthrene-d10 (ISTD)	1238737	10.954	1294900	10.953	
Chrysene-d12 (ISTD)	1236324	14.564	1289443	14.569	

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Water	Laboratory ID:	0050699-BLK1	File ID:	E05202007.D
Prepared:	05/19/20 15:21	Preparation:	EPA 3510C (Acid Extraction	Initial/Final:	1100 mL / 1 mL
Analyzed:	05/20/20 11:55	Instrument:	SV-GCMS5		
Batch:	0050699	Sequence:	0E20035	Calibration:	A0A0704

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perylene-d12 (ISTD)	1102203	18.014	1205981	18.019	
Dibenz(a,h)anthracene-d14 (ISTD)	928627	20.399	990727	20.41	

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050624	Laboratory ID:	0050624-BS2
Preparation:	EPA 3510C (Acid Extraction)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	4.00	3.57	89	47 - 122
Acenaphthylene	4.00	3.68	92	41 - 130
Anthracene	4.00	3.80	95	57 - 123
Benz(a)anthracene	4.00	3.81	95	58 - 125
Benzo(a)pyrene	4.00	4.15	104	54 - 128
Benzo(b)fluoranthene	4.00	4.06	101	53 - 131
Benzo(k)fluoranthene	4.00	4.04	101	57 - 129
Benzo(g,h,i)perylene	4.00	4.00	100	50 - 134
Chrysene	4.00	3.89	97	59 - 123
Dibenz(a,h)anthracene	4.00	3.96	99	51 - 134
Fluoranthene	4.00	3.92	98	57 - 128
Fluorene	4.00	3.69	92	52 - 124
Indeno(1,2,3-cd)pyrene	4.00	3.74	93	52 - 134
1-Methylnaphthalene	4.00	3.54	88	41 - 120
2-Methylnaphthalene	4.00	3.53	88	40 - 121
Naphthalene	4.00	3.44	86	40 - 121
Phenanthrene	4.00	3.59	90	59 - 120
Pyrene	4.00	3.85	96	57 - 126
Carbazole	4.00	5.09	127 *	60 - 122
Dibenzofuran	4.00	3.56	89	53 - 120
4-Chloro-3-methylphenol	4.00	3.85	96	52 - 120
2-Chlorophenol	4.00	3.45	86	38 - 120
2,4-Dichlorophenol	4.00	3.76	94	47 - 121
2,4-Dimethylphenol	4.00	3.36	84	31 - 124
2,4-Dinitrophenol	4.00	3.85	96	23 - 143
4,6-Dinitro-2-methylphenol	4.00	3.70	92	44 - 137
2-Methylphenol	4.00	3.14	78	30 - 120
3+4-Methylphenol(s)	4.00	2.78	70	29 - 120
2-Nitrophenol	4.00	3.78	94	47 - 123
4-Nitrophenol	4.00	1.45	36	10 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050624	Laboratory ID:	0050624-BS2
Preparation:	EPA 3510C (Acid Extraction)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Pentachlorophenol (PCP)	4.00	3.92	98	35 - 138
Phenol	4.00	1.39	35	10 - 120
2,3,4,6-Tetrachlorophenol	4.00	3.81	95	50 - 128
2,3,5,6-Tetrachlorophenol	4.00	3.91	98	50 - 121
2,4,5-Trichlorophenol	4.00	3.87	97	53 - 123
2,4,6-Trichlorophenol	4.00	3.96	99	50 - 125
Bis(2-ethylhexyl)phthalate	4.00	4.44	111	55 - 135
Butyl benzyl phthalate	4.00	4.26	107	53 - 134
Diethylphthalate	4.00	3.69	92	56 - 125
Dimethylphthalate	4.00	3.81	95	45 - 127
Di-n-butylphthalate	4.00	4.11	103	59 - 127
Di-n-octyl phthalate	4.00	4.56	114	51 - 140

* = Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix: Water
Batch: 0050624
Laboratory ID: 0050624-BSD2
Preparation: EPA 3510C (Acid Extraction)
Initial/Final: 1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS
Acenaphthene	4.00	3.45	86	3	30	47 - 122
Acenaphthylene	4.00	3.56	89	3	30	41 - 130
Anthracene	4.00	3.72	93	2	30	57 - 123
Benz(a)anthracene	4.00	3.76	94	1	30	58 - 125
Benzo(a)pyrene	4.00	4.13	103	0.5	30	54 - 128
Benzo(b)fluoranthene	4.00	3.98	99	2	30	53 - 131
Benzo(k)fluoranthene	4.00	4.03	101	0.3	30	57 - 129
Benzo(g,h,i)perylene	4.00	3.91	98	2	30	50 - 134
Chrysene	4.00	3.83	96	2	30	59 - 123
Dibenz(a,h)anthracene	4.00	3.91	98	1	30	51 - 134
Fluoranthene	4.00	3.82	95	3	30	57 - 128
Fluorene	4.00	3.61	90	2	30	52 - 124
Indeno(1,2,3-cd)pyrene	4.00	3.70	93	1	30	52 - 134
1-Methylnaphthalene	4.00	3.43	86	3	30	41 - 120
2-Methylnaphthalene	4.00	3.35	84	5	30	40 - 121
Naphthalene	4.00	3.32	83	3	30	40 - 121
Phenanthrene	4.00	3.48	87	3	30	59 - 120
Pyrene	4.00	3.79	95	2	30	57 - 126
Carbazole	4.00	4.96	124 *	3	30	60 - 122
Dibenzofuran	4.00	3.49	87	2	30	53 - 120
4-Chloro-3-methylphenol	4.00	3.64	91	6	30	52 - 120
2-Chlorophenol	4.00	3.43	86	0.7	30	38 - 120
2,4-Dichlorophenol	4.00	3.60	90	4	30	47 - 121
2,4-Dimethylphenol	4.00	3.11	78	8	30	31 - 124
2,4-Dinitrophenol	4.00	3.73	93	3	30	23 - 143
4,6-Dinitro-2-methylphenol	4.00	3.73	93	0.7	30	44 - 137
2-Methylphenol	4.00	3.06	77	2	30	30 - 120
3+4-Methylphenol(s)	4.00	2.81	70	0.9	30	29 - 120
2-Nitrophenol	4.00	3.69	92	2	30	47 - 123
4-Nitrophenol	4.00	1.39	35	4	30	10 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050624	Laboratory ID:	0050624-BSD2
Preparation:	EPA 3510C (Acid Extraction)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	
Pentachlorophenol (PCP)	4.00	3.84	96	2	30	35 - 138
Phenol	4.00	1.37	34	2	30	10 - 120
2,3,4,6-Tetrachlorophenol	4.00	3.73	93	2	30	50 - 128
2,3,5,6-Tetrachlorophenol	4.00	3.72	93	5	30	50 - 121
2,4,5-Trichlorophenol	4.00	3.65	91	6	30	53 - 123
2,4,6-Trichlorophenol	4.00	3.76	94	5	30	50 - 125
Bis(2-ethylhexyl)phthalate	4.00	4.41	110	0.8	30	55 - 135
Butyl benzyl phthalate	4.00	4.28	107	0.4	30	53 - 134
Diethylphthalate	4.00	3.58	90	3	30	56 - 125
Dimethylphthalate	4.00	3.72	93	2	30	45 - 127
Di-n-butylphthalate	4.00	3.98	99	3	30	59 - 127
Di-n-octyl phthalate	4.00	4.41	110	3	30	51 - 140

* = Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050699	Laboratory ID:	0050699-BS1
Preparation:	EPA 3510C (Acid Extraction)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	4.00	2.93	73	47 - 122
Acenaphthylene	4.00	3.10	78	41 - 130
Anthracene	4.00	3.37	84	57 - 123
Benz(a)anthracene	4.00	3.57	89	58 - 125
Benzo(a)pyrene	4.00	3.60	90	54 - 128
Benzo(b)fluoranthene	4.00	3.72	93	53 - 131
Benzo(k)fluoranthene	4.00	3.41	85	57 - 129
Benzo(g,h,i)perylene	4.00	3.70	93	50 - 134
Chrysene	4.00	3.49	87	59 - 123
Dibenz(a,h)anthracene	4.00	3.55	89	51 - 134
Fluoranthene	4.00	3.82	96	57 - 128
Fluorene	4.00	3.36	84	52 - 124
Indeno(1,2,3-cd)pyrene	4.00	3.64	91	52 - 134
1-Methylnaphthalene	4.00	2.82	70	41 - 120
2-Methylnaphthalene	4.00	2.76	69	40 - 121
Naphthalene	4.00	2.53	63	40 - 121
Phenanthrene	4.00	3.09	77	59 - 120
Pyrene	4.00	3.70	93	57 - 126
Bis(2-ethylhexyl)phthalate	4.00	3.36	84	55 - 135

* = Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050699	Laboratory ID:	0050699-BSD1
Preparation:	EPA 3510C (Acid Extraction)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	
Acenaphthene	4.00	2.96	74	1	30	47 - 122
Acenaphthylene	4.00	3.19	80	3	30	41 - 130
Anthracene	4.00	3.54	89	5	30	57 - 123
Benz(a)anthracene	4.00	3.63	91	2	30	58 - 125
Benzo(a)pyrene	4.00	3.58	89	0.5	30	54 - 128
Benzo(b)fluoranthene	4.00	3.59	90	4	30	53 - 131
Benzo(k)fluoranthene	4.00	3.57	89	5	30	57 - 129
Benzo(g,h,i)perylene	4.00	3.74	93	0.9	30	50 - 134
Chrysene	4.00	3.54	88	1	30	59 - 123
Dibenz(a,h)anthracene	4.00	3.72	93	5	30	51 - 134
Fluoranthene	4.00	3.98	99	4	30	57 - 128
Fluorene	4.00	3.50	87	4	30	52 - 124
Indeno(1,2,3-cd)pyrene	4.00	3.64	91	0.1	30	52 - 134
1-Methylnaphthalene	4.00	2.92	73	3	30	41 - 120
2-Methylnaphthalene	4.00	2.81	70	2	30	40 - 121
Naphthalene	4.00	2.56	64	1	30	40 - 121
Phenanthrene	4.00	3.21	80	4	30	59 - 120
Pyrene	4.00	3.84	96	4	30	57 - 126
Bis(2-ethylhexyl)phthalate	4.00	3.44	86	2	30	55 - 135

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0A03043	Instrument:	SV-GCMS5
Matrix:	Water	Calibration:	A0A0704

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0A03043-TUN1	E01032013.D	01/03/20 16:14
Initial Cal Blank	0A03043-ICB1	E01032015.D	01/03/20 17:20
Cal Standard	0A03043-CAL1	E01032016.D	01/03/20 17:56
Cal Standard	0A03043-CAL2	E01032017.D	01/03/20 18:33
Cal Standard	0A03043-CAL3	E01032019.D	01/03/20 19:47
Cal Standard	0A03043-CAL4	E01032020.D	01/03/20 20:24
Cal Standard	0A03043-CAL5	E01032021.D	01/03/20 21:00
Cal Standard	0A03043-CAL6	E01032022.D	01/03/20 21:37
Cal Standard	0A03043-CAL7	E01032023.D	01/03/20 22:13
Cal Standard	0A03043-CAL8	E01032024.D	01/03/20 22:50
Cal Standard	0A03043-CAL9	E01032025.D	01/03/20 23:27
Cal Standard	0A03043-CALA	E01032026.D	01/04/20 00:04
Initial Cal Check	0A03043-ICV1	E01032028.D	01/04/20 01:17

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E01048	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0E01048-TUN1	J05012009.D	05/01/20 14:11
Initial Cal Blank	0E01048-ICB1	J05012010.D	05/01/20 14:39
Cal Standard	0E01048-CAL1	J05012011.D	05/01/20 15:16
Cal Standard	0E01048-CAL2	J05012012.D	05/01/20 15:53
Cal Standard	0E01048-CAL3	J05012013.D	05/01/20 18:15
Cal Standard	0E01048-CAL4	J05012014.D	05/01/20 18:50
Cal Standard	0E01048-CAL5	J05012015.D	05/01/20 19:26
Cal Standard	0E01048-CAL6	J05012016.D	05/01/20 20:01
Cal Standard	0E01048-CAL7	J05012017.D	05/01/20 20:36
Cal Standard	0E01048-CAL8	J05012018.D	05/01/20 21:11
Cal Standard	0E01048-CAL9	J05012019.D	05/01/20 21:46
Cal Standard	0E01048-CALA	J05012020.D	05/01/20 22:21
Initial Cal Check	0E01048-ICV1	J05012022.D	05/01/20 23:31

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E18040	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0E18040-TUN1	J05182001.D	05/18/20 10:32
Calibration Check	0E18040-CCV1	J05182002.D	05/18/20 11:00
Calibration Blank	0E18040-CCB1	J05182003.D	05/18/20 11:37
Blank	0050624-BLK2	J05182007.D	05/18/20 14:04
LCS	0050624-BS2	J05182008.D	05/18/20 14:41
LCS Dup	0050624-BSD2	J05182009.D	05/18/20 15:18
PDI-FB-2005121245	A0E0347-01RE1	J05182012.D	05/18/20 17:08

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E20035	Instrument:	SV-GCMS5
Matrix:	Water	Calibration:	A0A0704

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0E20035-TUN2	E05202003.D	05/20/20 09:40
Calibration Check	0E20035-CCV1	E05202005.D	05/20/20 10:44
Calibration Blank	0E20035-CCB1	E05202006.D	05/20/20 11:20
Blank	0050699-BLK1	E05202007.D	05/20/20 11:55
LCS	0050699-BS1	E05202008.D	05/20/20 12:31
LCS Dup	0050699-BSD1	E05202009.D	05/20/20 13:06
PDI-RB-2005121245	A0E0347-02RE2	E05202010.D	05/20/20 13:42

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	E01032013.D	Injection Date:	01/03/20
Instrument ID:	SV-GCMS5	Injection Time:	16:14
Sequence:	0A03043	Lab Sample ID:	0A03043-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.86	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.49	PASS
m/z 197	Less than 2% of m/z 198	0.00	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.73	PASS
m/z 365	1 - 100% of m/z 198	3.06	PASS
m/z 441	Less than 150% of m/z 443	78.71	PASS
m/z 442	0.1 - 200% of m/z 198	108.29	PASS
m/z 443	15 - 24% of m/z 442	19.21	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	J05012009.D	Injection Date:	05/01/20
Instrument ID:	SV-GCMS10	Injection Time:	14:11
Sequence:	0E01048	Lab Sample ID:	0E01048-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.50	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.48	PASS
m/z 197	Less than 2% of m/z 198	0.11	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.80	PASS
m/z 365	1 - 100% of m/z 198	4.67	PASS
m/z 441	Less than 150% of m/z 443	75.92	PASS
m/z 442	0.1 - 200% of m/z 198	144.26	PASS
m/z 443	15 - 24% of m/z 442	19.76	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	J05182001.D	Injection Date:	05/18/20
Instrument ID:	SV-GCMS10	Injection Time:	10:32
Sequence:	0E18040	Lab Sample ID:	0E18040-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.57	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.49	PASS
m/z 197	Less than 2% of m/z 198	0.13	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	7.01	PASS
m/z 365	1 - 100% of m/z 198	4.64	PASS
m/z 441	Less than 150% of m/z 443	73.31	PASS
m/z 442	0.1 - 200% of m/z 198	138.24	PASS
m/z 443	15 - 24% of m/z 442	19.99	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	E05202003.D	Injection Date:	05/20/20
Instrument ID:	SV-GCMS5	Injection Time:	09:40
Sequence:	0E20035	Lab Sample ID:	0E20035-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.80	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.44	PASS
m/z 197	Less than 2% of m/z 198	0.00	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.81	PASS
m/z 365	1 - 100% of m/z 198	3.03	PASS
m/z 441	Less than 150% of m/z 443	79.05	PASS
m/z 442	0.1 - 200% of m/z 198	104.91	PASS
m/z 443	15 - 24% of m/z 442	19.24	PASS

INITIAL CALIBRATION DATA (Summary)

EPA 8270D

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0A0704 Date: 01/07/20 14:36 Instrument: SV-GCMS5

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.36144	Ave	4.158273	9.6329	6.487895E-02			20	
Acenaphthylene	1.91264	Ave	9.236079	9.4556	5.923274E-02			20	
Anthracene	1.085446	Ave	9.371259	11.1867	3.959629E-02			20	
Benz(a)anthracene	1.116458	Ave	7.577437	14.8393	6.742719E-02			20	
Benzo(a)pyrene	0.792132	XXX	35.14867	18.18856	8.263977E-02				
Benzo(b)fluoranthene	1.019625	XXX	23.44938	17.4216	0.1041487				
Benzo(k)fluoranthene	1.034688	XXX	22.53694	17.4873	0.1133317				
Benzo(g,h,i)perylene	1.144278	Ave	14.30081	21.2632	0.1138351			20	
Chrysene	1.109027	Ave	1.780193	14.9216	0.1026655			20	
Dibenz(a,h)anthracene	1.140679	Ave	7.986001	20.7907	8.982664E-02			20	
Fluoranthene	1.063392	Ave	11.68704	12.3982	4.758143E-02			20	
Fluorene	1.367886	Ave	7.384183	10.156	5.796299E-02			20	
Indeno(1,2,3-cd)pyrene	1.192132	Ave	4.88389	20.7275	0.1065447			20	
2-Methylnaphthalene	0.6919904	Ave	3.840948	8.5402	4.643241E-02			20	
Naphthalene	1.101591	Ave	5.739151	7.8461	6.975889E-02			20	
Phenanthrene	1.172057	Ave	4.485662	11.1358	4.742187E-02			20	
Pyrene	1.115661	Ave	10.4187	12.6859	5.310302E-02			20	
Bis(2-ethylhexyl)phthalate	0.711541	XXX	34.09254	14.99725	3.972722E-02				
Nitrobenzene-d5 (Surr)	1.400414	Ave	8.488554	7.1133	8.118174E-02			20	
2-Fluorobiphenyl (Surr)	1.499579	Ave	4.156523	8.9076	4.242422E-02			20	
Phenol-d6 (Surr)	1.605875	Ave	10.88655	6.2323	0.1165488			20	
p-Terphenyl-d14 (Surr)	0.8995022	Ave	9.332496	12.8869	4.259489E-02			20	
2-Fluorophenol (Surr)	1.26325	Ave	13.30726	5.372	6.501677E-02			20	
2,4,6-Tribromophenol (Surr)	7.517888E-02	XXX	33.66724	10.40456	4.218327E-02				

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a2) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Calibration: A0A0704

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Instrument: SV-GCMS5
Calibration Date: 01/07/20 14:36

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Acenaphthene	20	1.357228	50	1.353212	100	1.404701	200	1.410032	500	1.41489	1000	1.395511
Acenaphthylene	20	1.535164	50	1.703529	100	1.876213	200	2.011547	500	2.054725	1000	2.058327
Anthracene	20	0.8836881	50	0.9540468	100	1.037174	200	1.1104	500	1.168121	1000	1.177864
Benz(a)anthracene	20	1.06764	50	0.9493668	100	1.008314	200	1.08974	500	1.152384	1000	1.162981
Benzo(a)pyrene	20	0.3521013	50	0.4566897	100	0.5631887	200	0.7180257	500	0.8982438	1000	0.9641908
Benzo(b)fluoranthene	20	0.6050607	50	0.723398	100	0.8084175	200	0.9246281	500	1.070525	1000	1.131764
Benzo(k)fluoranthene	20	0.591511	50	0.6978098	100	0.8732245	200	1.033863	500	1.142005	1000	1.180686
Benzo(b+k)fluoranthene(s)	40	0.6384579	100	0.7689156	200	0.8868934	400	1.017473	1000	1.141535	2000	1.190085
Benzo(g,h,i)perylene	20	0.8370584	50	0.8968452	100	1.039827	200	1.140162	500	1.249402	1000	1.258859
Chrysene	20	1.082971	50	1.065246	100	1.111416	200	1.116069	500	1.11428	1000	1.115538
Dibenz(a,h)anthracene	20	1.00951	50	0.9862461	100	1.072224	200	1.116696	500	1.168488	1000	1.164118
Fluoranthene	20	0.8137518	50	0.8975814	100	0.9944479	200	1.071697	500	1.140536	1000	1.17971
Fluorene	20	1.174978	50	1.294039	100	1.354207	200	1.428753	500	1.473871	1000	1.45517
Indeno(1,2,3-cd)pyrene	20	1.125659	50	1.111761	100	1.132237	200	1.154381	500	1.198366	1000	1.196471
1-Methylnaphthalene	20	0.6226636	50	0.6302286	100	0.6603592	200	0.6655601	500	0.6762234	1000	0.6700569
2-Methylnaphthalene	20	0.6794804	50	0.6742897	100	0.6954905	200	0.7060648	500	0.7282301	1000	0.711908
Naphthalene	20	1.132168	50	1.138976	100	1.157433	200	1.155583	500	1.14153	1000	1.123643
Phenanthrene	20	1.22114	50	1.161444	100	1.198687	200	1.20922	500	1.214473	1000	1.19916
Pyrene	20	0.8792942	50	0.9662398	100	1.050176	200	1.157049	500	1.209915	1000	1.229003
Carbazole	20	0.6334551	50	0.7215663	100	0.8614283	200	0.9506509	500	1.016544	1000	1.042256
Dibenzofuran	20	1.65894	50	1.650654	100	1.742471	200	1.763488	500	1.791553	1000	1.7491
4-Chloro-3-methylphenol	20	~~1.403275E-02~~	50	~~4.823359E-02~~	100	8.972751E-02	200	0.1282732	500	0.1890691	1000	0.218564
2-Chlorophenol	20	1.071073	50	1.125629	100	1.25764	200	1.34401	500	1.410724	1000	1.442335
2,4-Dichlorophenol	20	0.1310427	50	0.1524198	100	0.1609345	200	0.1849551	500	0.2186085	1000	0.2372932
2,4-Dimethylphenol	20	0.128827	50	0.1540262	100	0.1901686	200	0.2269892	500	0.2494309	1000	0.2644112
2,4-Dinitrophenol	20	~~0~~	50	~~0~~	100	~~0~~	200	5.696172E-03	500	2.779054E-02	1000	0.0673778
4,6-Dinitro-2-methylphenol	20	~~0~~	50	~~0.0102122~~	100	~~2.743127E-02~~	200	5.529398E-02	500	0.1115855	1000	0.1601839
2-Methylphenol	20	0.7313672	50	0.8212982	100	0.9438038	200	1.064192	500	1.138641	1000	1.12424
3+4-Methylphenol(s)	20	0.8186601	50	1.083151	100	1.210663	200	1.300868	500	1.426266	1000	1.420384
2-Nitrophenol	20	~~7.818245E-02~~	50	9.083437E-02	100	0.1099584	200	0.1377322	500	0.1601812	1000	0.1825529
4-Nitrophenol	20	~~8.028096E-03~~	50	0.0180861	100	3.948766E-02	200	6.762589E-02	500	0.1305615	1000	0.1805553

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0A0704

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te

Instrument: SV-GCMS5

Calibration Date: 01/07/20 14:36

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Pentachlorophenol (PCP)	20	~~0~~	50	~~1.184466E-02~~	100	1.149223E-02	200	2.252627E-02	500	0.0494126	1000	7.047127E-02
Phenol	20	1.59441	50	1.661165	100	1.810624	200	1.913368	500	1.985498	1000	2.000773
2,3,4,6-Tetrachlorophenol	20	~~4.637124E-02~~	50	8.995327E-02	100	0.1132584	200	0.1602797	500	0.2175049	1000	0.2369964
2,3,5,6-Tetrachlorophenol	20	~~3.546741E-02~~	50	4.237586E-02	100	6.887661E-02	200	0.1202068	500	0.1931195	1000	0.2252134
2,4,5-Trichlorophenol	20	~~0.118025~~	50	0.1220692	100	0.1686223	200	0.1895005	500	0.2532407	1000	0.2926098
2,4,6-Trichlorophenol	20	~~0.1096374~~	50	0.1408711	100	0.1671422	200	0.2254745	500	0.2896342	1000	0.3164966
Bis(2-ethylhexyl)phthalate	20	~~0.2053969~~	50	~~0.2218156~~	100	0.2835566	200	0.4157587	500	0.6471943	1000	0.7703578
Butyl benzyl phthalate	20	~~0.1637246~~	50	~~0.1679404~~	100	0.2065594	200	0.2951129	500	0.4298797	1000	0.5117579
Diethylphthalate	20	0.960376	50	1.082302	100	1.227173	200	1.304235	500	1.389018	1000	1.364012
Dimethylphthalate	20	1.012139	50	1.123676	100	1.23171	200	1.32695	500	1.393351	1000	1.376948
Di-n-butylphthalate	20	~~0.550044~~	50	0.6575529	100	0.7993022	200	0.9777103	500	1.184756	1000	1.275576
Di-n-octyl phthalate	20	~~0.2781504~~	50	~~0.2656106~~	100	0.3037721	200	0.4119931	500	0.7527712	1000	1.072374
2,3,5-Trimethylnaphthalene	20	1.01813	50	1.011199	100	1.077316	200	1.124953	500	1.15306	1000	1.158326
2,6-Dimethylnaphthalene	20	1.161558	50	1.192203	100	1.247442	200	1.289613	500	1.322361	1000	1.297002
Benzo(e)pyrene	20	0.6695649	50	0.7555726	100	0.87047	200	0.9488244	500	1.062041	1000	1.102561
1,1'-Biphenyl	20	1.663014	50	1.772915	100	1.738842	200	1.793801	500	1.773289	1000	1.759918
Perylene	20	0.9362649	50	0.8998282	100	0.902732	200	0.9480752	500	0.9774968	1000	0.9981939
Nitrobenzene-d5 (Surr)	20	1.190338	50	1.222663	100	1.319948	200	1.388142	500	1.497442	1000	1.468069
2-Fluorobiphenyl (Surr)	20	1.532168	50	1.485398	100	1.530612	200	1.563734	500	1.559923	1000	1.538316
Phenol-d6 (Surr)	20	1.274266	50	1.362175	100	1.483876	200	1.591873	500	1.671378	1000	1.719609
p-Terphenyl-d14 (Surr)	20	0.7392594	50	0.7819639	100	0.8435564	200	0.9108506	500	0.9210048	1000	0.9276425
2-Fluorophenol (Surr)	20	0.9652701	50	1.048725	100	1.116012	200	1.233017	500	1.275929	1000	1.347674
2,4,6-Tribromophenol (Surr)	20	~~1.940643E-02~~	50	2.879878E-02	100	4.447314E-02	200	5.912046E-02	500	7.763765E-02	1000	0.0844912

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0A0704
Instrument: SV-GCMS5
Matrix:
Calibration Date: 01/07/20 14:36

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Acenaphthene	2000	1.39699	4000	1.347692	6000	1.292023	8000	1.24212				
Acenaphthylene	2000	2.082126	4000	2.008246	6000	1.942069	8000	1.854455				
Anthracene	2000	1.190672	4000	1.150186	6000	1.11847	8000	1.063836				
Benz(a)anthracene	2000	1.174552	4000	1.179417	6000	1.195692	8000	1.184497				
Benzo(a)pyrene	2000	1.025738	4000	1.069701	6000	1.081309	8000	~~1.079471~~				
Benzo(b)fluoranthene	2000	1.181178	4000	1.253958	6000	1.239594	8000	1.257722				
Benzo(k)fluoranthene	2000	1.214647	4000	1.234998	6000	1.203434	8000	1.174705				
Benzo(b+k)fluoranthene(s)	4000	1.227253	8000	1.271701	12000	1.26582	16000	1.264656				
Benzo(g,h,i)perylene	2000	1.271327	4000	1.266961	6000	1.253889	8000	1.228449				
Chrysene	2000	1.129139	4000	1.126258	6000	1.117963	8000	1.111392				
Dibenz(a,h)anthracene	2000	1.233293	4000	1.212822	6000	1.229907	8000	1.21349				
Fluoranthene	2000	1.180219	4000	1.152092	6000	1.11613	8000	1.08775				
Fluorene	2000	1.473336	4000	1.415268	6000	1.354824	8000	1.254411				
Indeno(1,2,3-cd)pyrene	2000	1.228127	4000	1.24704	6000	1.267012	8000	1.260271				
1-Methylnaphthalene	2000	0.6727687	4000	0.655434	6000	0.6274435	8000	0.5943109				
2-Methylnaphthalene	2000	0.7183167	4000	0.6970203	6000	0.6694872	8000	0.6396167				
Naphthalene	2000	1.104889	4000	1.076658	6000	1.015936	8000	0.9690903				
Phenanthrene	2000	1.196143	4000	1.148461	6000	1.115543	8000	1.056297				
Pyrene	2000	1.218736	4000	1.180371	6000	1.144439	8000	1.121384				
Carbazole	2000	1.057555	4000	1.037891	6000	1.012307	8000	0.982417				
Dibenzofuran	2000	1.785006	4000	1.734304	6000	1.685456	8000	1.601304				
4-Chloro-3-methylphenol	2000	0.2536975	4000	0.2667109	6000	0.271085	8000	0.2706071				
2-Chlorophenol	2000	1.462376	4000	1.480063	6000	1.479762	8000	1.455368				
2,4-Dichlorophenol	2000	0.254851	4000	0.2684434	6000	0.2740296	8000	0.2707908				
2,4-Dimethylphenol	2000	0.2777508	4000	0.2838868	6000	0.2860679	8000	0.2843162				
2,4-Dinitrophenol	2000	0.1238381	4000	0.1535011	6000	0.1711904	8000	0.1924826				
4,6-Dinitro-2-methylphenol	2000	0.2111791	4000	0.2274608	6000	0.2371485	8000	0.2512239				
2-Methylphenol	2000	1.17952	4000	1.154243	6000	1.116229	8000	1.086291				
3+4-Methylphenol(s)	2000	1.493706	4000	1.449973	6000	1.362305	8000	1.315014				
2-Nitrophenol	2000	0.1862909	4000	0.1943836	6000	0.1983187	8000	0.1977312				
4-Nitrophenol	2000	0.2281556	4000	0.2443549	6000	0.2520547	8000	~~0.2671773~~				

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0A0704
Instrument: SV-GCMS5
Matrix:
Calibration Date: 01/07/20 14:36

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Pentachlorophenol (PCP)	2000	9.300712E-02	4000	0.1041156	6000	0.1109856	8000	~~0.1150255~~				
Phenol	2000	2.035719	4000	1.992862	6000	1.964415	8000	1.895148				
2,3,4,6-Tetrachlorophenol	2000	0.2701929	4000	0.2771909	6000	0.281875	8000	0.2947692				
2,3,5,6-Tetrachlorophenol	2000	0.2620533	4000	0.2733286	6000	0.2815874	8000	~~0.2932692~~				
2,4,5-Trichlorophenol	2000	0.3360908	4000	0.354065	6000	0.364775	8000	0.3722959				
2,4,6-Trichlorophenol	2000	0.3467929	4000	0.3636577	6000	0.3627664	8000	0.3639102				
Bis(2-ethylhexyl)phthalate	2000	0.8721675	4000	0.8945556	6000	0.9060119	8000	0.9027259				
Butyl benzyl phthalate	2000	0.5893657	4000	0.6290312	6000	0.6405555	8000	0.6297039				
Diethylphthalate	2000	1.409663	4000	1.353749	6000	1.301334	8000	1.251729				
Dimethylphthalate	2000	1.407726	4000	1.368399	6000	1.353491	8000	1.346114				
Di-n-butylphthalate	2000	1.319719	4000	1.285469	6000	1.221577	8000	1.16506				
Di-n-octyl phthalate	2000	1.412951	4000	1.618535	6000	1.678942	8000	1.691555				
2,3,5-Trimethylnaphthalene	2000	1.159045	4000	1.108792	6000	1.052807	8000	0.9977343				
2,6-Dimethylnaphthalene	2000	1.290835	4000	1.250782	6000	1.192377	8000	1.143066				
Benzo(e)pyrene	2000	1.133435	4000	1.166406	6000	1.163761	8000	1.170003				
1,1'-Biphenyl	2000	1.744778	4000	1.68163	6000	1.5997	8000	1.504895				
Perylene	2000	0.9879861	4000	1.006538	6000	0.996441	8000	0.9904659				
Nitrobenzene-d5 (Surr)	2000	1.539318	4000	1.486098	6000	1.441961	8000	1.45016				
2-Fluorobiphenyl (Surr)	2000	1.51657	4000	1.4735	6000	1.427701	8000	1.367872				
Phenol-d6 (Surr)	2000	1.767561	4000	1.758664	6000	1.725863	8000	1.703488				
p-Terphenyl-d14 (Surr)	2000	0.9495588	4000	0.9732174	6000	0.9877976	8000	0.9601708				
2-Fluorophenol (Surr)	2000	1.378748	4000	1.428708	6000	1.430898	8000	1.407522				
2,4,6-Tribromophenol (Surr)	2000	9.219964E-02	4000	9.424335E-02	6000	9.687951E-02	8000	9.876619E-02				

INITIAL CALIBRATION DATA (Summary)

EPA 8270D

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0E0506 Date: 05/05/20 15:37 Instrument: SV-GCMS10

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.309699	Ave	11.31475	9.9043	6.321452E-02			20	
Acenaphthylene	1.93992	Ave	12.46611	9.7264	4.858635E-02			20	
Anthracene	1.080799	Ave	10.09827	11.4678	6.934735E-02			20	
Benz(a)anthracene	1.134038	Ave	3.288159	15.3897	0.1038462			20	
Benzo(a)pyrene	0.8542591	XXX	19.92698	18.8022	0.1382656				
Benzo(b)fluoranthene	1.039929	XXX	18.25386	18.0196	0.1276842				
Benzo(k)fluoranthene	1.012403	XXX	17.07778	18.0875	0.1448591				
Benzo(g,h,i)perylene	1.100612	Ave	14.05655	21.8979	0.1561685			20	
Chrysene	1.068175	Ave	4.133873	15.4737	0.1269752			20	
Dibenz(a,h)anthracene	1.080508	Ave	4.796201	21.4183	0.1300863			20	
Fluoranthene	1.207959	Ave	9.905785	12.74275	3.500751E-02			20	
Fluorene	1.394564	Ave	12.18488	10.4298	6.269565E-02			20	
Indeno(1,2,3-cd)pyrene	1.162765	Ave	3.343229	21.3529	0.1512898			20	
2-Methylnaphthalene	0.7270146	Ave	9.11916	8.8043	4.382354E-02			20	
Naphthalene	1.068379	Ave	12.09706	8.1055	5.728119E-02			20	
Phenanthrene	1.125548	Ave	11.62566	11.4173	4.393023E-02			20	
Pyrene	1.208958	Ave	9.926796	13.0627	7.064713E-02			20	
Bis(2-ethylhexyl)phthalate	0.615669	Ave	13.35685	15.55571	7.679306E-02			20	
Nitrobenzene-d5 (Surr)	1.127464	Ave	7.149164	7.3561	7.308526E-02			20	
2-Fluorobiphenyl (Surr)	1.593321	Ave	10.79334	9.1703	4.828418E-02			20	
Phenol-d6 (Surr)	1.42936	Ave	8.143197	6.4373	0.1441756			20	
p-Terphenyl-d14 (Surr)	0.970764	Ave	8.781384	13.2783	0.0697478			20	
2-Fluorophenol (Surr)	1.214138	Ave	8.482968	5.528	6.164641E-02			20	
2,4,6-Tribromophenol (Surr)	0.1326031	XXX	21.88443	10.6754	6.113921E-02				

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a2) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Calibration: A0E0506

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Instrument: SV-GCMS10
Calibration Date: 05/05/20 15:37

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Acenaphthene	20	1.331898	50	1.472711	100	1.41018	200	1.448985	500	1.417782	1000	1.36651
Acenaphthylene	20	1.83821	50	2.044467	100	2.139708	200	2.179846	500	2.197474	1000	2.076766
Anthracene	20	1.03303	50	1.092533	100	1.169903	200	1.197055	500	1.199932	1000	1.163532
Benz(a)anthracene	20	1.183775	50	1.080124	100	1.084719	200	1.128312	500	1.173007	1000	1.164557
Benzo(a)pyrene	20	0.5484383	50	0.6298965	100	0.695746	200	0.8163063	500	0.9564716	1000	0.97207
Benzo(b)fluoranthene	20	0.7089108	50	0.7662897	100	0.8868251	200	0.990949	500	1.136772	1000	1.129014
Benzo(k)fluoranthene	20	0.68248	50	0.7588512	100	0.9259456	200	1.026977	500	1.178769	1000	1.161588
Benzo(b+k)fluoranthene(s)	40	0.7430505	100	0.8206033	200	0.9574229	400	1.059036	1000	1.19528	2000	1.18069
Benzo(g,h,i)perylene	20	0.776435	50	0.896235	100	1.041168	200	1.10611	500	1.226413	1000	1.207231
Chrysene	20	1.001226	50	1.081166	100	1.053245	200	1.112157	500	1.132419	1000	1.096594
Dibenz(a,h)anthracene	20	0.9964774	50	1.003322	100	1.042121	200	1.089272	500	1.14769	1000	1.104047
Fluoranthene	20	0.9816777	50	1.089265	100	1.193993	200	1.282702	500	1.317878	1000	1.315075
Fluorene	20	1.355942	50	1.310574	100	1.559843	200	1.582909	500	1.61896	1000	1.486134
Indeno(1,2,3-cd)pyrene	20	1.154043	50	1.139056	100	1.125996	200	1.112089	500	1.174755	1000	1.132274
1-Methylnaphthalene	20	0.6973106	50	0.7177634	100	0.7614049	200	0.7374633	500	0.7277502	1000	0.7060984
2-Methylnaphthalene	20	0.6787302	50	0.755966	100	0.7859385	200	0.8038993	500	0.7774539	1000	0.7657392
Naphthalene	20	1.12179	50	1.191588	100	1.159673	200	1.177242	500	1.164551	1000	1.122173
Phenanthrene	20	1.251568	50	1.20559	100	1.226887	200	1.236509	500	1.220081	1000	1.163501
Pyrene	20	1.048319	50	1.13154	100	1.246667	200	1.314269	500	1.389376	1000	1.315815
Carbazole	20	0.7335577	50	0.8581456	100	0.9241725	200	0.9747673	500	1.005365	1000	0.9295579
Dibenzofuran	20	1.8712	50	1.826996	100	1.992013	200	1.997131	500	1.970977	1000	1.896201
4-Chloro-3-methylphenol	20	~~0.146867~~	50	0.184265	100	0.2145163	200	0.2398795	500	0.2667763	1000	0.2691635
2-Chlorophenol	20	1.185736	50	1.225892	100	1.295827	200	1.346318	500	1.457381	1000	1.442836
2,4-Dichlorophenol	20	~~0.2084828~~	50	0.2286023	100	0.2648909	200	0.2869749	500	0.3114867	1000	0.3142751
2,4-Dimethylphenol	20	~~0.2050673~~	50	0.2463373	100	0.2661426	200	0.3003978	500	0.3148234	1000	0.316034
2,4-Dinitrophenol	20	~~0~~	50	~~0~~	100	~~1.046119E-02~~	200	1.696333E-02	500	0.0498375	1000	8.098746E-02
4,6-Dinitro-2-methylphenol	20	~~0~~	50	~~1.606124E-02~~	100	~~4.302587E-02~~	200	7.389113E-02	500	0.1352937	1000	0.1789672
2-Methylphenol	20	0.9329525	50	0.8360099	100	0.9482015	200	1.003228	500	1.054378	1000	1.057172
3+4-Methylphenol(s)	20	1.01009	50	1.04744	100	1.23693	200	1.269677	500	1.337077	1000	1.34751
2-Nitrophenol	20	~~0.101509~~	50	~~0.1093097~~	100	0.1517636	200	0.1622001	500	0.1966295	1000	0.2096594
4-Nitrophenol	20	~~5.116234E-02~~	50	4.994226E-02	100	0.1071991	200	0.1329753	500	0.1941165	1000	0.2288886

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0E0506

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te

Instrument: SV-GCMS10

Calibration Date: 05/05/20 15:37

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Pentachlorophenol (PCP)	20	~~1.695127E-02~~	50	3.838084E-02	100	0.0731054	200	8.501701E-02	500	0.11981	1000	0.1408718
Phenol	20	1.412459	50	1.18664	100	1.283273	200	1.631418	500	1.524032	1000	1.534988
2,3,4,6-Tetrachlorophenol	20	~~0.1070775~~	50	0.170343	100	0.2424634	200	0.3101415	500	0.3563781	1000	0.3694198
2,3,5,6-Tetrachlorophenol	20	~~8.191565E-02~~	50	0.1286072	100	0.1904949	200	0.2480959	500	0.3267098	1000	0.3607763
2,4,5-Trichlorophenol	20	0.2289724	50	0.2694068	100	0.3362205	200	0.3717558	500	0.4337691	1000	0.4333678
2,4,6-Trichlorophenol	20	0.2121979	50	0.2633106	100	0.3484814	200	0.3641079	500	0.4333867	1000	0.4446764
Bis(2-ethylhexyl)phthalate	20	~~0.251626~~	50	~~0.248849~~	100	~~0.3216496~~	200	0.4411809	500	0.5893591	1000	0.6288373
Butyl benzyl phthalate	20	~~0.1601962~~	50	0.1987408	100	0.2534455	200	0.3035203	500	0.4027831	1000	0.4495893
Diethylphthalate	20	1.385018	50	1.505419	100	1.5464	200	1.545848	500	1.547866	1000	1.461831
Dimethylphthalate	20	1.286887	50	1.435899	100	1.564567	200	1.595013	500	1.578108	1000	1.529428
Di-n-butylphthalate	20	~~0.8452366~~	50	~~0.9292753~~	100	1.04307	200	1.113723	500	1.221495	1000	1.2278
Di-n-octyl phthalate	20	~~0.2597452~~	50	~~0.2806736~~	100	0.3548922	200	0.4701071	500	0.7662946	1000	0.9394232
2,3,5-Trimethylnaphthalene	20	1.116345	50	1.141169	100	1.229246	200	1.283722	500	1.292023	1000	1.198981
2,6-Dimethylnaphthalene	20	1.220348	50	1.310691	100	1.347694	200	1.361034	500	1.33505	1000	1.287144
Benzo(e)pyrene	20	0.7119	50	0.7724456	100	0.9149332	200	1.019418	500	1.110174	1000	1.098998
1,1'-Biphenyl	20	1.708487	50	1.817969	100	1.908043	200	1.844029	500	1.836998	1000	1.779743
Perylene	20	0.8841719	50	0.9296793	100	0.9921135	200	0.9795014	500	1.026057	1000	0.9925298
Nitrobenzene-d5 (Surr)	20	1.006963	50	0.9926101	100	1.086289	200	1.165283	500	1.193067	1000	1.228916
2-Fluorobiphenyl (Surr)	20	1.634958	50	1.703312	100	1.766254	200	1.741099	500	1.737167	1000	1.660838
Phenol-d6 (Surr)	20	1.234729	50	1.266761	100	1.312878	200	1.434988	500	1.505472	1000	1.542301
p-Terphenyl-d14 (Surr)	20	0.7648127	50	0.8950494	100	1.000177	200	1.007628	500	1.055936	1000	1.036517
2-Fluorophenol (Surr)	20	1.017909	50	1.114815	100	1.117568	200	1.166497	500	1.27047	1000	1.258543
2,4,6-Tribromophenol (Surr)	20	7.395405E-02	50	9.289276E-02	100	0.1194551	200	0.1283914	500	0.1423239	1000	0.1490775

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0E0506
Instrument: SV-GCMS10
Matrix:
Calibration Date: 05/05/20 15:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Acenaphthene	2000	1.307658	4000	1.193469	6000	1.100858	8000	1.046944				
Acenaphthylene	2000	2.000918	4000	1.807614	6000	1.621115	8000	1.493078				
Anthracene	2000	1.106916	4000	1.020236	6000	0.9374081	8000	0.8874469				
Benz(a)anthracene	2000	1.168494	4000	1.131065	6000	1.121852	8000	1.104473				
Benzo(a)pyrene	2000	1.004276	4000	0.9954656	6000	0.9760354	8000	0.9478857				
Benzo(b)fluoranthene	2000	1.208503	4000	1.197609	6000	1.191767	8000	1.182647				
Benzo(k)fluoranthene	2000	1.16426	4000	1.111765	6000	1.083351	8000	1.030047				
Benzo(b+k)fluoranthene(s)	4000	1.21611	8000	1.181162	12000	1.163569	16000	1.130412				
Benzo(g,h,i)perylene	2000	1.240317	4000	1.207841	6000	1.179189	8000	1.12518				
Chrysene	2000	1.093082	4000	1.066936	6000	1.044867	8000	1.000057				
Dibenz(a,h)anthracene	2000	1.114819	4000	1.13228	6000	1.104529	8000	1.070526				
Fluoranthene	2000	1.282415	4000	1.200664	6000	~~1.088323~~	8000	~~1.065193~~				
Fluorene	2000	1.428979	4000	1.301415	6000	1.169774	8000	1.131113				
Indeno(1,2,3-cd)pyrene	2000	1.158007	4000	1.183312	6000	1.221725	8000	1.226388				
1-Methylnaphthalene	2000	0.6918355	4000	0.6370839	6000	0.5936092	8000	0.5534062				
2-Methylnaphthalene	2000	0.7567649	4000	0.6907538	6000	0.6490809	8000	0.6058197				
Naphthalene	2000	1.063865	4000	0.9666643	6000	0.882492	8000	0.8337508				
Phenanthrene	2000	1.091363	4000	1.022345	6000	0.9467416	8000	0.8908922				
Pyrene	2000	1.288683	4000	1.197327	6000	1.100761	8000	1.056822				
Carbazole	2000	0.8131273	4000	0.4804392	6000	~~0.3709254~~	8000	~~0.420948~~				
Dibenzofuran	2000	1.840875	4000	1.695526	6000	1.543593	8000	1.476867				
4-Chloro-3-methylphenol	2000	0.2827642	4000	0.2766351	6000	0.2690648	8000	0.2591972				
2-Chlorophenol	2000	1.439568	4000	1.384201	6000	1.369414	8000	1.315337				
2,4-Dichlorophenol	2000	0.3225524	4000	0.3023123	6000	0.2902244	8000	0.2759573				
2,4-Dimethylphenol	2000	0.3033706	4000	0.2765431	6000	0.2661205	8000	~~0.2568604~~				
2,4-Dinitrophenol	2000	0.1181806	4000	0.1525979	6000	0.162063	8000	0.1773479				
4,6-Dinitro-2-methylphenol	2000	0.215326	4000	0.2441277	6000	0.2378605	8000	0.2439411				
2-Methylphenol	2000	1.047302	4000	0.9770164	6000	0.9246923	8000	0.8856925				
3+4-Methylphenol(s)	2000	1.320772	4000	1.19856	6000	1.135726	8000	~~1.086924~~				
2-Nitrophenol	2000	0.2008244	4000	0.2003265	6000	0.1927349	8000	0.1934816				
4-Nitrophenol	2000	0.2490834	4000	0.2605745	6000	0.2501795	8000	0.262054				

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0E0506
Instrument: SV-GCMS10
Matrix:
Calibration Date: 05/05/20 15:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Pentachlorophenol (PCP)	2000	0.1610317	4000	0.1684072	6000	0.168955	8000	0.1716657				
Phenol	2000	1.658253	4000	1.575755	6000	1.544399	8000	1.492794				
2,3,4,6-Tetrachlorophenol	2000	0.3847489	4000	0.3856842	6000	0.3664249	8000	0.3711595				
2,3,5,6-Tetrachlorophenol	2000	0.3820095	4000	0.3883279	6000	0.3704171	8000	0.3771013				
2,4,5-Trichlorophenol	2000	0.4461997	4000	0.4378847	6000	0.4142294	8000	0.3945401				
2,4,6-Trichlorophenol	2000	0.4331596	4000	0.4458716	6000	0.420599	8000	0.4198224				
Bis(2-ethylhexyl)phthalate	2000	0.6671	4000	0.6739882	6000	0.6642011	8000	0.6450161				
Butyl benzyl phthalate	2000	0.4796208	4000	0.5067436	6000	0.5039344	8000	0.5117562				
Diethylphthalate	2000	1.353731	4000	1.223408	6000	1.052155	8000	1.01217				
Dimethylphthalate	2000	1.482711	4000	1.391273	6000	1.285786	8000	1.252565				
Di-n-butylphthalate	2000	1.168264	4000	1.112702	6000	0.9896788	8000	~~0.9690213~~				
Di-n-octyl phthalate	2000	1.102547	4000	1.18442	6000	1.175675	8000	1.158736				
2,3,5-Trimethylnaphthalene	2000	1.124604	4000	1.008588	6000	0.9160567	8000	0.8612319				
2,6-Dimethylnaphthalene	2000	1.22497	4000	1.134281	6000	1.025679	8000	0.9723181				
Benzo(e)pyrene	2000	1.125403	4000	1.113865	6000	1.07445	8000	1.054871				
1,1'-Biphenyl	2000	1.678499	4000	1.550044	6000	1.390287	8000	1.301724				
Perylene	2000	0.998988	4000	0.9650619	6000	0.9441094	8000	0.9225709				
Nitrobenzene-d5 (Surr)	2000	1.209807	4000	1.14777	6000	1.141868	8000	1.102066				
2-Fluorobiphenyl (Surr)	2000	1.59082	4000	1.473729	6000	1.353338	8000	1.271692				
Phenol-d6 (Surr)	2000	1.560852	4000	1.493668	6000	1.487917	8000	1.454036				
p-Terphenyl-d14 (Surr)	2000	1.021674	4000	0.9907016	6000	0.9824467	8000	0.9526973				
2-Fluorophenol (Surr)	2000	1.313984	4000	1.292324	6000	1.32031	8000	1.268959				
2,4,6-Tribromophenol (Surr)	2000	0.1548827	4000	0.1555956	6000	0.1556971	8000	0.1537608				

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	SV-GCMS5	Calibration:	A0A0704
Lab File ID:	E01032028.D		
Sequence:	0A03043	Inject Date:	01/04/20
Lab Sample ID:	0A03043-ICV1	Inject Time:	01:17

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Acenaphthene	1000	982	-1.8	70 - 130
Acenaphthylene	1000	1060	6.4	70 - 130
Anthracene	1000	1040	3.7	70 - 130
Benz(a)anthracene	1000	1010	1.4	70 - 130
Benzo(a)pyrene	1000	1100	9.7	70 - 130
Benzo(b)fluoranthene	1000	1050	4.8	70 - 130
Benzo(k)fluoranthene	1000	1020	2.2	70 - 130
Benzo(g,h,i)perylene	1000	1060	6.2	70 - 130
Chrysene	1000	977	-2.3	70 - 130
Dibenz(a,h)anthracene	1000	983	-1.7	70 - 130
Fluoranthene	1000	1060	5.8	70 - 130
Fluorene	1000	1010	0.7	70 - 130
Indeno(1,2,3-cd)pyrene	1000	972	-2.8	70 - 130
1-Methylnaphthalene	1000	1030	2.7	70 - 130
2-Methylnaphthalene	1000	1010	1.1	70 - 130
Naphthalene	1000	982	-1.8	70 - 130
Phenanthrene	1000	972	-2.8	70 - 130
Pyrene	1000	1050	5.0	70 - 130
Carbazole	1000	991	-0.9	70 - 130
Dibenzofuran	1000	998	-0.2	70 - 130
4-Chloro-3-methylphenol	1000	882	-11.8	70 - 130
2-Chlorophenol	1000	1040	4.5	70 - 130
2,4-Dichlorophenol	1000	1020	1.9	70 - 130
2,4-Dimethylphenol	1000	872	-12.8	70 - 130
2,4-Dinitrophenol	1000	893	-10.7	70 - 130
4,6-Dinitro-2-methylphenol	1000	945	-5.5	70 - 130
2-Methylphenol	1000	1030	3.5	70 - 130
3+4-Methylphenol(s)	1000	965	-3.5	70 - 130
2-Nitrophenol	1000	1030	3.0	70 - 130
4-Nitrophenol	1000	865	-13.5	70 - 130
Pentachlorophenol (PCP)	1000	946	-5.4	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	SV-GCMS5	Calibration:	A0A0704
Lab File ID:	E01032028.D		
Sequence:	0A03043	Inject Date:	01/04/20
Lab Sample ID:	0A03043-ICV1	Inject Time:	01:17

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Phenol	1000	1030	3.0	70 - 130
2,3,4,6-Tetrachlorophenol	1000	1020	1.6	70 - 130
2,3,5,6-Tetrachlorophenol	1000	1050	4.7	70 - 130
2,4,5-Trichlorophenol	1000	948	-5.2	70 - 130
2,4,6-Trichlorophenol	1000	978	-2.2	70 - 130
Bis(2-ethylhexyl)phthalate	1000	1000	-0.02	70 - 130
Butyl benzyl phthalate	1000	1020	2.1	70 - 130
Diethylphthalate	1000	1050	4.9	70 - 130
Dimethylphthalate	1000	1030	3.4	70 - 130
Di-n-butylphthalate	1000	1020	1.7	70 - 130
Di-n-octyl phthalate	1000	1050	4.8	70 - 130
Nitrobenzene-d5 (Surr)	1000	1040	4.1	70 - 130
2-Fluorobiphenyl (Surr)	1000	1020	2.0	70 - 130
Phenol-d6 (Surr)	1000	1040	4.0	70 - 130
p-Terphenyl-d14 (Surr)	1000	1030	3.0	70 - 130
2-Fluorophenol (Surr)	1000	1030	3.4	70 - 130
2,4,6-Tribromophenol (Surr)	1000	999	-0.1	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	SV-GCMS10	Calibration:	A0E0506
Lab File ID:	J05012022.D		
Sequence:	0E01048	Inject Date:	05/01/20
Lab Sample ID:	0E01048-ICV1	Inject Time:	23:31

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Acenaphthene	1000	1060	6.3	70 - 130
Acenaphthylene	1000	1120	12.4	70 - 130
Anthracene	1000	1090	9.5	70 - 130
Benz(a)anthracene	1000	1020	2.0	70 - 130
Benzo(a)pyrene	1000	1110	11.3	70 - 130
Benzo(b)fluoranthene	1000	1100	9.7	70 - 130
Benzo(k)fluoranthene	1000	1080	8.3	70 - 130
Benzo(g,h,i)perylene	1000	1130	13.4	70 - 130
Chrysene	1000	1050	5.2	70 - 130
Dibenz(a,h)anthracene	1000	1070	7.1	70 - 130
Fluoranthene	1000	1090	9.4	70 - 130
Fluorene	1000	1050	5.4	70 - 130
Indeno(1,2,3-cd)pyrene	1000	1020	1.9	70 - 130
1-Methylnaphthalene	1000	1150	15.2	70 - 130
2-Methylnaphthalene	1000	1130	13.1	70 - 130
Naphthalene	1000	1060	6.4	70 - 130
Phenanthrene	1000	1060	5.9	70 - 130
Pyrene	1000	1100	9.9	70 - 130
Carbazole	1000	1040	4.2	70 - 130
Dibenzofuran	1000	1050	5.4	70 - 130
4-Chloro-3-methylphenol	1000	1150	14.6	70 - 130
2-Chlorophenol	1000	1130	12.7	70 - 130
2,4-Dichlorophenol	1000	1150	15.3	70 - 130
2,4-Dimethylphenol	1000	1020	2.1	70 - 130
2,4-Dinitrophenol	1000	985	-1.5	70 - 130
4,6-Dinitro-2-methylphenol	1000	1000	0.3	70 - 130
2-Methylphenol	1000	1190	18.6	70 - 130
3+4-Methylphenol(s)	1000	1200	20.3	70 - 130
2-Nitrophenol	1000	1170	16.6	70 - 130
4-Nitrophenol	1000	1050	5.2	70 - 130
Pentachlorophenol (PCP)	1000	1110	10.9	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	SV-GCMS10	Calibration:	A0E0506
Lab File ID:	J05012022.D		
Sequence:	0E01048	Inject Date:	05/01/20
Lab Sample ID:	0E01048-ICV1	Inject Time:	23:31

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Phenol	1000	1230	23.0	70 - 130
2,3,4,6-Tetrachlorophenol	1000	1080	8.4	70 - 130
2,3,5,6-Tetrachlorophenol	1000	1090	8.6	70 - 130
2,4,5-Trichlorophenol	1000	1100	10.2	70 - 130
2,4,6-Trichlorophenol	1000	1070	6.8	70 - 130
Bis(2-ethylhexyl)phthalate	1000	1020	1.6	70 - 130
Butyl benzyl phthalate	1000	1090	9.2	70 - 130
Diethylphthalate	1000	1030	2.7	70 - 130
Dimethylphthalate	1000	1090	8.8	70 - 130
Di-n-butylphthalate	1000	1060	5.9	70 - 130
Di-n-octyl phthalate	1000	1020	2.1	70 - 130
Nitrobenzene-d5 (Surr)	1000	1150	14.7	70 - 130
2-Fluorobiphenyl (Surr)	1000	1050	4.8	70 - 130
Phenol-d6 (Surr)	1000	1140	14.4	70 - 130
p-Terphenyl-d14 (Surr)	1000	1050	5.3	70 - 130
2-Fluorophenol (Surr)	1000	1090	9.0	70 - 130
2,4,6-Tribromophenol (Surr)	1000	1110	11.4	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	SV-GCMS10	Calibration:	A0E0506
Lab File ID:	J05182002.D	Calibration Date:	05/05/20 15:37
Sequence:	0E18040	Injection Date:	05/18/20
Lab Sample ID:	0E18040-CCV1	Injection Time:	11:00

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	1000	1030		1.309699	1.345807	2.8	20
Acenaphthylene	Ave	1000	1080		1.93992	2.095451	8.0	20
Anthracene	Ave	1000	1070		1.080799	1.157893	7.1	20
Benz(a)anthracene	Ave	1000	1010		1.134038	1.149835	1.4	20
Benzo(a)pyrene	XXX	1000	1050	5.2				20
Benzo(b)fluoranthene	XXX	1000	1030	3.2				20
Benzo(k)fluoranthene	XXX	1000	1060	6.0				20
Benzo(g,h,i)perylene	Ave	1000	1010		1.100612	1.10659	0.5	20
Chrysene	Ave	1000	1010		1.068175	1.079611	1.1	20
Dibenz(a,h)anthracene	Ave	1000	1030		1.080508	1.118157	3.5	20
Fluoranthene	Ave	1000	1080		1.207959	1.307789	8.3	20
Fluorene	Ave	1000	1050		1.394564	1.464946	5.0	20
Indeno(1,2,3-cd)pyrene	Ave	1000	952		1.162765	1.10707	-4.8	20
1-Methylnaphthalene	Ave	1000	1020		0.6823726	0.6929142	1.5	20
2-Methylnaphthalene	Ave	1000	1040		0.7270146	0.7541277	3.7	20
Naphthalene	Ave	1000	1020		1.068379	1.094804	2.5	20
Phenanthrene	Ave	1000	1030		1.125548	1.155874	2.7	20
Pyrene	Ave	1000	1100		1.208958	1.324443	9.6	20
Carbazole	XXX	1000	983	-1.7				20
Dibenzofuran	Ave	1000	1040		1.811138	1.878973	3.7	20
4-Chloro-3-methylphenol	Ave	1000	1000		0.2513624	0.2519399	0.2	20
2-Chlorophenol	Ave	1000	1100		1.346251	1.479199	9.9	20
2,4-Dichlorophenol	Ave	1000	1030		0.2885863	0.2972995	3.0	20
2,4-Dimethylphenol	Ave	1000	1100		0.2862212	0.3143018	9.8	20
2,4-Dinitrophenol	XXX	1000	797	-20.3 *				20
4,6-Dinitro-2-methylphenol	XXX	1000	811	-18.9				20
2-Methylphenol	Ave	1000	1190		0.9666645	1.145835	18.5	20
3+4-Methylphenol(s)	Ave	1000	1220		1.211531	1.473356	21.6*	20
2-Nitrophenol	Ave	1000	1190		0.1884525	0.2246262	19.2	20
4-Nitrophenol	XXX	1000	872	-12.8				20

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	SV-GCMS10	Calibration:	A0E0506
Lab File ID:	J05182002.D	Calibration Date:	05/05/20 15:37
Sequence:	0E18040	Injection Date:	05/18/20
Lab Sample ID:	0E18040-CCV1	Injection Time:	11:00

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Pentachlorophenol (PCP)	XXX	1000	981	-1.9				20
Phenol	Ave	1000	1210		1.484401	1.792041	20.7*	20
2,3,4,6-Tetrachlorophenol	XXX	1000	951	-4.9				20
2,3,5,6-Tetrachlorophenol	XXX	1000	1010	0.6				20
2,4,5-Trichlorophenol	XXX	1000	1020	1.7				20
2,4,6-Trichlorophenol	XXX	1000	1060	5.7				20
Bis(2-ethylhexyl)phthalate	Ave	1000	1020		0.615669	0.6255948	1.6	20
Butyl benzyl phthalate	XXX	1000	1040	4.2				20
Diethylphthalate	Ave	1000	1060		1.363385	1.444129	5.9	20
Dimethylphthalate	Ave	1000	1020		1.440224	1.462362	1.5	20
Di-n-butylphthalate	Ave	1000	1070		1.125248	1.200848	6.7	20
Di-n-octyl phthalate	XXX	1000	999	-0.06				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	SV-GCMS5	Calibration:	A0A0704
Lab File ID:	E05202005.D	Calibration Date:	01/07/20 14:36
Sequence:	0E20035	Injection Date:	05/20/20
Lab Sample ID:	0E20035-CCV1	Injection Time:	10:44

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	1000	993		1.36144	1.352556	-0.7	20
Acenaphthylene	Ave	1000	1060		1.91264	2.019219	5.6	20
Anthracene	Ave	1000	1090		1.085446	1.178486	8.6	20
Benz(a)anthracene	Ave	1000	1040		1.116458	1.166595	4.5	20
Benzo(a)pyrene	XXX	1000	1170	16.8				20
Benzo(b)fluoranthene	XXX	1000	1090	9.0				20
Benzo(k)fluoranthene	XXX	1000	1040	4.3				20
Benzo(b+k)fluoranthene(s)	XXX	2000	2130	6.3				20
Benzo(g,h,i)perylene	Ave	1000	1070		1.144278	1.22416	7.0	20
Chrysene	Ave	1000	1010		1.109027	1.117124	0.7	20
Dibenz(a,h)anthracene	Ave	1000	1000		1.140679	1.143786	0.3	20
Fluoranthene	Ave	1000	1180		1.063392	1.250574	17.6	20
Fluorene	Ave	1000	1130		1.367886	1.541475	12.7	20
Indeno(1,2,3-cd)pyrene	Ave	1000	1020		1.192132	1.21193	1.7	20
1-Methylnaphthalene	Ave	1000	1040		0.6475049	0.672759	3.9	20
2-Methylnaphthalene	Ave	1000	1040		0.6919904	0.7176759	3.7	20
Naphthalene	Ave	1000	994		1.101591	1.094877	-0.6	20
Phenanthrene	Ave	1000	994		1.172057	1.164538	-0.6	20
Pyrene	Ave	1000	1170		1.115661	1.300156	16.5	20
Bis(2-ethylhexyl)phthalate	XXX	1000	988	-1.2				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0A03043	Instrument:	SV-GCMS5
Matrix:	Water	Calibration:	A0A0704

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0A03043-ICV1)			Lab File ID: E01032028.D		Analyzed: 01/04/20 01:17			
Nitrobenzene-d5 (Surr)	1000	104	70 - 130	7.113	7.1133	-0.0003	+/-1.0	
2-Fluorobiphenyl (Surr)	1000	102	70 - 130	8.905	8.9076	-0.0026	+/-1.0	
Phenol-d6 (Surr)	1000	104	70 - 130	6.231	6.2323	-0.0013	+/-1.0	
p-Terphenyl-d14 (Surr)	1000	103	70 - 130	12.884	12.8869	-0.0029	+/-1.0	
2-Fluorophenol (Surr)	1000	103	70 - 130	5.37	5.372	-0.0020	+/-1.0	
2,4,6-Tribromophenol (Surr)	1000	100	70 - 130	10.403	10.40456	-0.0016	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E01048	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0E01048-ICV1)			Lab File ID: J05012022.D		Analyzed: 05/01/20 23:31			
Nitrobenzene-d5 (Surr)	1000	115	70 - 130	7.354	7.3561	-0.0021	+/-1.0	
2-Fluorobiphenyl (Surr)	1000	105	70 - 130	9.172	9.1703	0.0017	+/-1.0	
Phenol-d6 (Surr)	1000	114	70 - 130	6.434	6.4373	-0.0033	+/-1.0	
p-Terphenyl-d14 (Surr)	1000	105	70 - 130	13.28	13.2783	0.0017	+/-1.0	
2-Fluorophenol (Surr)	1000	109	70 - 130	5.525	5.528	-0.0030	+/-1.0	
2,4,6-Tribromophenol (Surr)	1000	111	70 - 130	10.675	10.6754	-0.0004	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence: 0E18040
Instrument: SV-GCMS10
Matrix: Water
Calibration: A0E0506

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0E18040-CCV1)			Lab File ID: J05182002.D		Analyzed: 05/18/20 11:00			
Nitrobenzene-d5 (Surr)	1000	122	80 - 120	7.349	7.3561	-0.0071	+/-1.0	*
2-Fluorobiphenyl (Surr)	1000	107	80 - 120	9.167	9.1703	-0.0033	+/-1.0	
Phenol-d6 (Surr)	1000	115	80 - 120	6.439	6.4373	0.0017	+/-1.0	
p-Terphenyl-d14 (Surr)	1000	106	80 - 120	13.264	13.2783	-0.0143	+/-1.0	
2-Fluorophenol (Surr)	1000	101	80 - 120	5.53	5.528	0.0020	+/-1.0	
2,4,6-Tribromophenol (Surr)	1000	100	80 - 120	10.67	10.6754	-0.0054	+/-1.0	
Calibration Blank (0E18040-CCB1)			Lab File ID: J05182003.D		Analyzed: 05/18/20 11:37			
Nitrobenzene-d5 (Surr)			44 - 120	0	7.3561	-7.3561	+/-1.0	
2-Fluorobiphenyl (Surr)			44 - 120	0	9.1703	-9.1703	+/-1.0	
Phenol-d6 (Surr)			10 - 133	0	6.4373	-6.4373	+/-1.0	
p-Terphenyl-d14 (Surr)			50 - 134	0	13.2783	-13.2783	+/-1.0	
2-Fluorophenol (Surr)			19 - 120	0	5.528	-5.5280	+/-1.0	
2,4,6-Tribromophenol (Surr)			43 - 140	0	10.6754	-10.6754	+/-1.0	
Blank (0050624-BLK2)			Lab File ID: J05182007.D		Analyzed: 05/18/20 14:04			
Nitrobenzene-d5 (Surr)	4.55	87	44 - 120	7.354	7.3561	-0.0021	+/-1.0	
2-Fluorobiphenyl (Surr)	4.55	73	44 - 120	9.167	9.1703	-0.0033	+/-1.0	
Phenol-d6 (Surr)	4.55	28	10 - 133	6.439	6.4373	0.0017	+/-1.0	
p-Terphenyl-d14 (Surr)	4.55	89	50 - 134	13.269	13.2783	-0.0093	+/-1.0	
2-Fluorophenol (Surr)	4.55	45	19 - 120	5.535	5.528	0.0070	+/-1.0	
2,4,6-Tribromophenol (Surr)	4.55	84	43 - 140	10.67	10.6754	-0.0054	+/-1.0	
LCS (0050624-BS2)			Lab File ID: J05182008.D		Analyzed: 05/18/20 14:41			
Nitrobenzene-d5 (Surr)	5.00	88	44 - 120	7.354	7.3561	-0.0021	+/-1.0	
2-Fluorobiphenyl (Surr)	5.00	84	44 - 120	9.167	9.1703	-0.0033	+/-1.0	
Phenol-d6 (Surr)	5.00	32	10 - 133	6.439	6.4373	0.0017	+/-1.0	
p-Terphenyl-d14 (Surr)	5.00	96	50 - 134	13.264	13.2783	-0.0143	+/-1.0	
2-Fluorophenol (Surr)	5.00	50	19 - 120	5.53	5.528	0.0020	+/-1.0	
2,4,6-Tribromophenol (Surr)	5.00	91	43 - 140	10.67	10.6754	-0.0054	+/-1.0	
LCS Dup (0050624-BSD2)			Lab File ID: J05182009.D		Analyzed: 05/18/20 15:18			
Nitrobenzene-d5 (Surr)	5.00	88	44 - 120	7.354	7.3561	-0.0021	+/-1.0	
2-Fluorobiphenyl (Surr)	5.00	80	44 - 120	9.167	9.1703	-0.0033	+/-1.0	
Phenol-d6 (Surr)	5.00	32	10 - 133	6.439	6.4373	0.0017	+/-1.0	
p-Terphenyl-d14 (Surr)	5.00	94	50 - 134	13.27	13.2783	-0.0083	+/-1.0	
2-Fluorophenol (Surr)	5.00	48	19 - 120	5.53	5.528	0.0020	+/-1.0	
2,4,6-Tribromophenol (Surr)	5.00	89	43 - 140	10.67	10.6754	-0.0054	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E18040	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
PDI-FB-2005121245 (A0E0347-01RE1)			Lab File ID: J05182012.D		Analyzed: 05/18/20 17:08			
Nitrobenzene-d5 (Surr)	4.72	56	44 - 120	7.348	7.3561	-0.0081	+/-1.0	
2-Fluorobiphenyl (Surr)	4.72	41	44 - 120	9.167	9.1703	-0.0033	+/-1.0	*
Phenol-d6 (Surr)	4.72	16	10 - 133	6.445	6.4373	0.0077	+/-1.0	
p-Terphenyl-d14 (Surr)	4.72	77	50 - 134	13.269	13.2783	-0.0093	+/-1.0	
2-Fluorophenol (Surr)	4.72	22	19 - 120	5.53	5.528	0.0020	+/-1.0	
2,4,6-Tribromophenol (Surr)	4.72	62	43 - 140	10.67	10.6754	-0.0054	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E20035	Instrument:	SV-GCMS5
Matrix:	Water	Calibration:	A0A0704

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0E20035-CCV1)			Lab File ID: E05202005.D		Analyzed: 05/20/20 10:44			
Nitrobenzene-d5 (Surr)	1000	106	80 - 120	6.958	7.1133	-0.1553	+/-1.0	
2-Fluorobiphenyl (Surr)	1000	101	80 - 120	8.755	8.9076	-0.1526	+/-1.0	
Phenol-d6 (Surr)	1000	106	80 - 120	6.086	6.2323	-0.1463	+/-1.0	
p-Terphenyl-d14 (Surr)	1000	108	80 - 120	12.686	12.8869	-0.2009	+/-1.0	
2-Fluorophenol (Surr)	1000	107	80 - 120	5.22	5.372	-0.1520	+/-1.0	
2,4,6-Tribromophenol (Surr)	1000	123	80 - 120	10.247	10.40456	-0.1576	+/-1.0	*
Calibration Blank (0E20035-CCB1)			Lab File ID: E05202006.D		Analyzed: 05/20/20 11:20			
Nitrobenzene-d5 (Surr)			44 - 120	6.963	7.1133	-0.1503	+/-1.0	
2-Fluorobiphenyl (Surr)			44 - 120	0	8.9076	-8.9076	+/-1.0	
Phenol-d6 (Surr)			10 - 133	0	6.2323	-6.2323	+/-1.0	
p-Terphenyl-d14 (Surr)			50 - 134	0	12.8869	-12.8869	+/-1.0	
2-Fluorophenol (Surr)			19 - 120	0	5.372	-5.3720	+/-1.0	
2,4,6-Tribromophenol (Surr)			43 - 140	0	10.40456	-10.4046	+/-1.0	
Blank (0050699-BLK1)			Lab File ID: E05202007.D		Analyzed: 05/20/20 11:55			
Nitrobenzene-d5 (Surr)	4.55	78	44 - 120	6.958	7.1133	-0.1553	+/-1.0	
2-Fluorobiphenyl (Surr)	4.55	68	44 - 120	8.755	8.9076	-0.1526	+/-1.0	
Phenol-d6 (Surr)	4.55	25	10 - 133	6.092	6.2323	-0.1403	+/-1.0	
p-Terphenyl-d14 (Surr)	4.55	87	50 - 134	12.692	12.8869	-0.1949	+/-1.0	
2-Fluorophenol (Surr)	4.55	42	19 - 120	5.22	5.372	-0.1520	+/-1.0	
2,4,6-Tribromophenol (Surr)	4.55	74	43 - 140	10.248	10.40456	-0.1566	+/-1.0	
LCS (0050699-BS1)			Lab File ID: E05202008.D		Analyzed: 05/20/20 12:31			
Nitrobenzene-d5 (Surr)	5.00	84	44 - 120	6.963	7.1133	-0.1503	+/-1.0	
2-Fluorobiphenyl (Surr)	5.00	69	44 - 120	8.755	8.9076	-0.1526	+/-1.0	
Phenol-d6 (Surr)	5.00	29	10 - 133	6.092	6.2323	-0.1403	+/-1.0	
p-Terphenyl-d14 (Surr)	5.00	84	50 - 134	12.692	12.8869	-0.1949	+/-1.0	
2-Fluorophenol (Surr)	5.00	46	19 - 120	5.22	5.372	-0.1520	+/-1.0	
2,4,6-Tribromophenol (Surr)	5.00	96	43 - 140	10.253	10.40456	-0.1516	+/-1.0	
LCS Dup (0050699-BSD1)			Lab File ID: E05202009.D		Analyzed: 05/20/20 13:06			
Nitrobenzene-d5 (Surr)	5.00	83	44 - 120	6.963	7.1133	-0.1503	+/-1.0	
2-Fluorobiphenyl (Surr)	5.00	68	44 - 120	8.755	8.9076	-0.1526	+/-1.0	
Phenol-d6 (Surr)	5.00	31	10 - 133	6.092	6.2323	-0.1403	+/-1.0	
p-Terphenyl-d14 (Surr)	5.00	84	50 - 134	12.692	12.8869	-0.1949	+/-1.0	
2-Fluorophenol (Surr)	5.00	49	19 - 120	5.22	5.372	-0.1520	+/-1.0	
2,4,6-Tribromophenol (Surr)	5.00	96	43 - 140	10.253	10.40456	-0.1516	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence:	0E20035	Instrument:	SV-GCMS5
Matrix:	Water	Calibration:	A0A0704

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
PDI-RB-2005121245 (A0E0347-02RE2)			Lab File ID: E05202010.D		Analyzed: 05/20/20 13:42			
Nitrobenzene-d5 (Surr)	4.81	29	44 - 120	6.958	7.1133	-0.1553	+/-1.0	*
2-Fluorobiphenyl (Surr)	4.81	27	44 - 120	8.755	8.9076	-0.1526	+/-1.0	*
Phenol-d6 (Surr)	4.81	10	10 - 133	6.092	6.2323	-0.1403	+/-1.0	
p-Terphenyl-d14 (Surr)	4.81	58	50 - 134	12.692	12.8869	-0.1949	+/-1.0	
2-Fluorophenol (Surr)	4.81	15	19 - 120	5.22	5.372	-0.1520	+/-1.0	*
2,4,6-Tribromophenol (Surr)	4.81	72	43 - 140	10.248	10.40456	-0.1566	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E18040	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (0E18040-CCV1)			Lab File ID: J05182002.D			Analyzed: 05/18/20 11:00			
1,4-Dichlorobenzene-d4 (ISTD)	141701	6.803	180245	6.808	79	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8 (ISTD)	592157	8.076	673130	8.081	88	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10 (ISTD)	278615	9.868	339213	9.868	82	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	508244	11.387	643209	11.392	79	50 - 200	-0.0050	+/-0.50	
Chrysene-d12 (ISTD)	518911	15.393	647204	15.404	80	50 - 200	-0.0110	+/-0.50	
Perylene-d12 (ISTD)	470754	18.918	635590	18.928	74	50 - 200	-0.0100	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	391285	21.319	543591	21.335	72	50 - 200	-0.0160	+/-0.50	
Calibration Blank (0E18040-CCB1)			Lab File ID: J05182003.D			Analyzed: 05/18/20 11:37			
1,4-Dichlorobenzene-d4 (ISTD)	151127	6.803	141701	6.803	107	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (ISTD)	597966	8.076	592157	8.076	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	274458	9.862	278615	9.868	99	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	472478	11.381	508244	11.387	93	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	478389	15.382	518911	15.393	92	50 - 200	-0.0110	+/-0.50	
Perylene-d12 (ISTD)	428534	18.912	470754	18.918	91	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	349012	21.314	391285	21.319	89	50 - 200	-0.0050	+/-0.50	
Blank (0050624-BLK2)			Lab File ID: J05182007.D			Analyzed: 05/18/20 14:04			
1,4-Dichlorobenzene-d4 (ISTD)	156216	6.808	141701	6.803	110	50 - 200	0.0050	+/-0.50	
Naphthalene-d8 (ISTD)	592981	8.076	592157	8.076	100	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	278641	9.862	278615	9.868	100	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	497796	11.381	508244	11.387	98	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	517206	15.388	518911	15.393	100	50 - 200	-0.0050	+/-0.50	
Perylene-d12 (ISTD)	478591	18.907	470754	18.918	102	50 - 200	-0.0110	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	402502	21.308	391285	21.319	103	50 - 200	-0.0110	+/-0.50	
LCS (0050624-BS2)			Lab File ID: J05182008.D			Analyzed: 05/18/20 14:41			
1,4-Dichlorobenzene-d4 (ISTD)	163008	6.803	141701	6.803	115	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (ISTD)	575214	8.081	592157	8.076	97	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10 (ISTD)	279810	9.868	278615	9.868	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	534643	11.387	508244	11.387	105	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	522171	15.393	518911	15.393	101	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	492566	18.912	470754	18.918	105	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	424257	21.314	391285	21.319	108	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E18040	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (0050624-BSD2)			Lab File ID: J05182009.D			Analyzed: 05/18/20 15:18			
1,4-Dichlorobenzene-d4 (ISTD)	161300	6.803	141701	6.803	114	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (ISTD)	599974	8.081	592157	8.076	101	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10 (ISTD)	293642	9.868	278615	9.868	105	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	558407	11.387	508244	11.387	110	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	536761	15.393	518911	15.393	103	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	507045	18.918	470754	18.918	108	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	435719	21.319	391285	21.319	111	50 - 200	0.0000	+/-0.50	
PDI-FB-2005121245 (A0E0347-01RE1)			Lab File ID: J05182012.D			Analyzed: 05/18/20 17:08			
1,4-Dichlorobenzene-d4 (ISTD)	133519	6.803	141701	6.803	94	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (ISTD)	637728	8.076	592157	8.076	108	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	325786	9.862	278615	9.868	117	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	605176	11.381	508244	11.387	119	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	601140	15.382	518911	15.393	116	50 - 200	-0.0110	+/-0.50	
Perylene-d12 (ISTD)	565306	18.907	470754	18.918	120	50 - 200	-0.0110	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	469791	21.303	391285	21.319	120	50 - 200	-0.0160	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E20035	Instrument:	SV-GCMS5
Matrix:	Water	Calibration:	A0A0704

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (0E20035-CCV1)			Lab File ID: E05202005.D			Analyzed: 05/20/20 10:44			
1,4-Dichlorobenzene-d4 (ISTD)	333200	6.423	499189	6.573	67	50 - 200	-0.1500	+/-0.50	
Naphthalene-d8 (ISTD)	1345507	7.669	1906856	7.825	71	50 - 200	-0.1560	+/-0.50	
Acenaphthene-d10 (ISTD)	672243	9.445	860224	9.6	78	50 - 200	-0.1550	+/-0.50	
Phenanthrene-d10 (ISTD)	1294900	10.953	1377611	11.109	94	50 - 200	-0.1560	+/-0.50	
Chrysene-d12 (ISTD)	1289443	14.569	1239637	14.863	104	50 - 200	-0.2940	+/-0.50	
Perylene-d12 (ISTD)	1205981	18.019	1104605	18.329	109	50 - 200	-0.3100	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	990727	20.41	815694	20.72	121	50 - 200	-0.3100	+/-0.50	
Calibration Blank (0E20035-CCB1)			Lab File ID: E05202006.D			Analyzed: 05/20/20 11:20			
1,4-Dichlorobenzene-d4 (ISTD)	339256	6.418	333200	6.423	102	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8 (ISTD)	1333694	7.669	1345507	7.669	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	592934	9.44	672243	9.445	88	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	1091996	10.953	1294900	10.953	84	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	904661	14.558	1289443	14.569	70	50 - 200	-0.0110	+/-0.50	
Perylene-d12 (ISTD)	784905	18.008	1205981	18.019	65	50 - 200	-0.0110	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	602297	20.399	990727	20.41	61	50 - 200	-0.0110	+/-0.50	
Blank (0050699-BLK1)			Lab File ID: E05202007.D			Analyzed: 05/20/20 11:55			
1,4-Dichlorobenzene-d4 (ISTD)	330561	6.423	333200	6.423	99	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (ISTD)	1298193	7.67	1345507	7.669	96	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10 (ISTD)	640178	9.44	672243	9.445	95	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	1238737	10.954	1294900	10.953	96	50 - 200	0.0010	+/-0.50	
Chrysene-d12 (ISTD)	1236324	14.564	1289443	14.569	96	50 - 200	-0.0050	+/-0.50	
Perylene-d12 (ISTD)	1102203	18.014	1205981	18.019	91	50 - 200	-0.0050	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	928627	20.399	990727	20.41	94	50 - 200	-0.0110	+/-0.50	
LCS (0050699-BS1)			Lab File ID: E05202008.D			Analyzed: 05/20/20 12:31			
1,4-Dichlorobenzene-d4 (ISTD)	355614	6.423	333200	6.423	107	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (ISTD)	1453007	7.669	1345507	7.669	108	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	729082	9.445	672243	9.445	108	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	1338773	10.954	1294900	10.953	103	50 - 200	0.0010	+/-0.50	
Chrysene-d12 (ISTD)	1298183	14.58	1289443	14.569	101	50 - 200	0.0110	+/-0.50	
Perylene-d12 (ISTD)	1214325	18.024	1205981	18.019	101	50 - 200	0.0050	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	1047025	20.431	990727	20.41	106	50 - 200	0.0210	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence:	0E20035	Instrument:	SV-GCMS5
Matrix:	Water	Calibration:	A0A0704

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (0050699-BSD1)			Lab File ID: E05202009.D			Analyzed: 05/20/20 13:06			
1,4-Dichlorobenzene-d4 (ISTD)	321185	6.423	333200	6.423	96	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (ISTD)	1318808	7.669	1345507	7.669	98	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	695229	9.445	672243	9.445	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	1328532	10.959	1294900	10.953	103	50 - 200	0.0060	+/-0.50	
Chrysene-d12 (ISTD)	1311831	14.585	1289443	14.569	102	50 - 200	0.0160	+/-0.50	
Perylene-d12 (ISTD)	1229895	18.035	1205981	18.019	102	50 - 200	0.0160	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	1046477	20.437	990727	20.41	106	50 - 200	0.0270	+/-0.50	
PDI-RB-2005121245 (A0E0347-02RE2)			Lab File ID: E05202010.D			Analyzed: 05/20/20 13:42			
1,4-Dichlorobenzene-d4 (ISTD)	343343	6.423	333200	6.423	103	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (ISTD)	1412457	7.67	1345507	7.669	105	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10 (ISTD)	693544	9.44	672243	9.445	103	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	1310823	10.954	1294900	10.953	101	50 - 200	0.0010	+/-0.50	
Chrysene-d12 (ISTD)	1299563	14.564	1289443	14.569	101	50 - 200	-0.0050	+/-0.50	
Perylene-d12 (ISTD)	1196677	18.014	1205981	18.019	99	50 - 200	-0.0050	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	982727	20.405	990727	20.41	99	50 - 200	-0.0050	+/-0.50	

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-FB-2005121245	05/12/20 12:45	05/13/20 10:05	05/18/20 09:39	5.87	7.00	05/18/20 17:08	0.31	40.00	
PDI-RB-2005121245	05/12/20 12:45	05/13/20 10:05	05/19/20 15:21	7.11	7.00	05/20/20 13:42	0.93	40.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: METALS

METHOD: EPA 6020A

ANALYSES DATA PACKAGE COVER PAGE

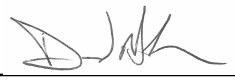
EPA 6020A

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-FB-2005121245	A0E0347-01	WQ
PDI-RB-2005121245	A0E0347-02	WQ

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 
Name: David G. Jack

Forms Created: 7/7/2020 12:31PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 6020A

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Water

Analyte	MDL	MRL	Units
Arsenic	0.500	1.00	ug/L

Note: MDLs are listed only if the corresponding analyte was evalutated to the MDL in this report .

INORGANIC ANALYSIS DATA SHEET

EPA 6020A

PDI-FB-2005121245

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: WQ
Laboratory ID: A0E0347-01
File ID: 0E20067-082
Sampled: 05/12/20 12:45
Prepared: 05/20/20 12:17
Analyzed: 05/21/20 02:33
Solids: N/A
Preparation: EPA 3015A
Initial/Final: 45 mL / 50 mL
Batch: 0050749
Sequence: 0E20067
Instrument: ICPMS6

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.500	1	U	EPA 6020A

INORGANIC ANALYSIS DATA SHEET

EPA 6020A

PDI-RB-2005121245

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: WQ
Laboratory ID: A0E0347-02
File ID: 0E20067-087
Sampled: 05/12/20 12:45
Prepared: 05/20/20 12:17
Analyzed: 05/21/20 02:56
Solids: N/A
Preparation: EPA 3015A
Initial/Final: 45 mL / 50 mL
Batch: 0050749
Sequence: 0E20067
Instrument: ICPMS6

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.500	1	U	EPA 6020A

PREPARATION BATCH SUMMARY

EPA 6020A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0050749
Batch Matrix: Water
Preparation: EPA 3015A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0050749-BLK1	0E20067-077	05/20/20 12:17	
LCS	0050749-BS1	0E20067-078	05/20/20 12:17	
PDI-FB-2005121245 (Dup)	0050749-DUP1	0E20067-083	05/20/20 12:17	
PDI-FB-2005121245 (MS)	0050749-MS1	0E20067-086	05/20/20 12:17	
PDI-FB-2005121245	A0E0347-01	0E20067-082	05/20/20 12:17	
PDI-RB-2005121245	A0E0347-02	0E20067-087	05/20/20 12:17	

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET

EPA 6020A

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Water	Laboratory ID:	0050749-BLK1	File ID:	0E20067-077
Prepared:	05/20/20 12:17	Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL
Analyzed:	05/21/20 02:09	Instrument:	ICPMS6		
Batch:	0050749	Sequence:	0E20067	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7440-38-2	Arsenic	0.500	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050749	Laboratory ID:	0050749-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Arsenic	55.6	55.9	101	80 - 120

* = Values outside of QC limits

DUPLICATES

EPA 6020A

PDI-FB-2005121245

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Water
Batch: 0050749
Preparation: EPA 3015A
Source Sample Name: PDI-FB-2005121245

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Laboratory ID: 0050749-DUP1
Lab Source ID: A0E0347-01
Initial/Final: 45 mL / 50 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/L)	C	DUPLICATE CONCENTRATION (ug/L)	C	RPD %	Q	METHOD
Arsenic	20	0.129		ND				EPA 6020A

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6020A

PDI-FB-2005121245

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050749	Laboratory ID:	0050749-MS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

Source Sample Name: PDI-FB-2005121245

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. (*=Out)	QC LIMITS REC.
Arsenic	55.6	ND	55.9	101	75 - 125

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E20067	Instrument:	ICPMS6
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0E20067-CAL2	0E20067-006	05/20/20 20:31
Cal Standard	0E20067-CAL3	0E20067-007	05/20/20 20:36
Cal Standard	0E20067-CAL4	0E20067-008	05/20/20 20:41
Cal Standard	0E20067-CAL5	0E20067-009	05/20/20 20:46
Cal Standard	0E20067-CAL6	0E20067-010	05/20/20 20:51
Cal Standard	0E20067-CAL7	0E20067-011	05/20/20 20:56
Cal Standard	0E20067-CAL8	0E20067-012	05/20/20 21:01
Initial Cal Check	0E20067-ICV1	0E20067-014	05/20/20 21:10
Initial Cal Blank	0E20067-ICB1	0E20067-015	05/20/20 21:15
Instrument RL Check	0E20067-CRL1	0E20067-016	05/20/20 21:20
Instrument RL Check	0E20067-CRL2	0E20067-017	05/20/20 21:25
Instrument RL Check	0E20067-CRL3	0E20067-018	05/20/20 21:29
Instrument RL Check	0E20067-CRL4	0E20067-019	05/20/20 21:34
Calibration Check	0E20067-CCV1	0E20067-032	05/20/20 22:36
Calibration Blank	0E20067-CCB1	0E20067-033	05/20/20 22:41
Calibration Check	0E20067-CCV2	0E20067-044	05/20/20 23:33
Calibration Blank	0E20067-CCB2	0E20067-045	05/20/20 23:37
Instrument RL Check	0E20067-CRL5	0E20067-046	05/20/20 23:42
Instrument RL Check	0E20067-CRL6	0E20067-047	05/20/20 23:47
Instrument RL Check	0E20067-CRL7	0E20067-048	05/20/20 23:52
Instrument RL Check	0E20067-CRL8	0E20067-049	05/20/20 23:56
Calibration Check	0E20067-CCV3	0E20067-060	05/21/20 00:48
Calibration Blank	0E20067-CCB3	0E20067-061	05/21/20 00:53
Calibration Check	0E20067-CCV4	0E20067-072	05/21/20 01:45
Calibration Blank	0E20067-CCB4	0E20067-073	05/21/20 01:50
Blank	0050749-BLK1	0E20067-077	05/21/20 02:09
LCS	0050749-BS1	0E20067-078	05/21/20 02:14
PDI-FB-2005121245	A0E0347-01	0E20067-082	05/21/20 02:33
PDI-FB-2005121245 (Dup)	0050749-DUP1	0E20067-083	05/21/20 02:37
Calibration Check	0E20067-CCV5	0E20067-084	05/21/20 02:42
Calibration Blank	0E20067-CCB5	0E20067-085	05/21/20 02:47
PDI-FB-2005121245 (MS)	0050749-MS1	0E20067-086	05/21/20 02:52
PDI-RB-2005121245	A0E0347-02	0E20067-087	05/21/20 02:56

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E20067	Instrument:	ICPMS6
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0E20067-CCV6	0E20067-089	05/21/20 03:06
Calibration Blank	0E20067-CCB6	0E20067-090	05/21/20 03:11
Instrument RL Check	0E20067-CRLA	0E20067-092	05/21/20 03:20
Instrument RL Check	0E20067-CRLB	0E20067-093	05/21/20 03:25
Instrument RL Check	0E20067-CRLC	0E20067-094	05/21/20 03:30
Calibration Check	0E20067-CCV7	0E20067-102	05/21/20 04:08
Calibration Blank	0E20067-CCB7	0E20067-103	05/21/20 04:13
Instrument RL Check	0E20067-CRLE	0E20067-105	05/21/20 04:22
Instrument RL Check	0E20067-CRLF	0E20067-106	05/21/20 04:27
Instrument RL Check	0E20067-CRLG	0E20067-107	05/21/20 04:32

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Instrument ID: ICPMS6
Calibration: UNASSIGNED
Control Limt: +/- 10.00%
Sequence: 0E20067

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0E20067-ICV1	Arsenic	100	101	101	ug/L	EPA 6020A
0E20067-CCV1	Arsenic	100	102	102	ug/L	EPA 6020A
0E20067-CCV2	Arsenic	100	102	102	ug/L	EPA 6020A
0E20067-CCV3	Arsenic	100	108	108	ug/L	EPA 6020A
0E20067-CCV4	Arsenic	100	99.2	99	ug/L	EPA 6020A
0E20067-CCV5	Arsenic	100	101	101	ug/L	EPA 6020A
0E20067-CCV6	Arsenic	100	101	101	ug/L	EPA 6020A
0E20067-CCV7	Arsenic	100	99.5	100	ug/L	EPA 6020A

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Instrument ID: ICPMS6
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Sequence: 0E20067
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0E20067-ICB1	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
0E20067-CCB1	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
0E20067-CCB2	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
0E20067-CCB3	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
0E20067-CCB4	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
0E20067-CCB5	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
0E20067-CCB6	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
0E20067-CCB7	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A

(Inst) indicates on-Instrument Result and Reporting Level. Used for non-digested Instrument Blanks.

CRDL STANDARD

EPA 6020A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Instrument ID: ICPMS6
Calibration: UNASSIGNED
Sequence: 0E20067

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0E20067-CRL1	Arsenic	0.180	0.159	88	ug/L	70 - 130
0E20067-CRL2	Arsenic	0.900	0.926	103	ug/L	70 - 130
0E20067-CRL3	Arsenic	1.80	1.86	103	ug/L	70 - 130
0E20067-CRL4	Arsenic	3.60	3.64	101	ug/L	70 - 130
0E20067-CRL5	Arsenic	0.180	0.153	85	ug/L	70 - 130
0E20067-CRL6	Arsenic	0.900	0.859	95	ug/L	70 - 130
0E20067-CRL7	Arsenic	1.80	1.78	99	ug/L	70 - 130
0E20067-CRL8	Arsenic	3.60	3.72	103	ug/L	70 - 130
0E20067-CRLA	Arsenic	0.900	0.941	105	ug/L	70 - 130
0E20067-CRLB	Arsenic	1.80	1.88	105	ug/L	70 - 130
0E20067-CRLC	Arsenic	3.60	3.66	102	ug/L	70 - 130
0E20067-CRLE	Arsenic	0.900	0.792	88	ug/L	70 - 130
0E20067-CRLF	Arsenic	1.80	1.68	93	ug/L	70 - 130
0E20067-CRLG	Arsenic	3.60	3.46	96	ug/L	70 - 130

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 6020A

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-FB-2005121245	05/12/20 12:45	05/13/20 10:05	05/20/20 12:17	7.98	180.00	05/21/20 02:33	8.58	180.00	
PDI-RB-2005121245	05/12/20 12:45	05/13/20 10:05	05/20/20 12:17	7.98	180.00	05/21/20 02:56	8.59	180.00	

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Raw Data

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Selected Volatile Organic Compounds by EPA 5035A/8260C
Benchsheet & Analysis Sequence Data

Batch 0050467
Sequence 0E13029 (A0E0347-01,02)

PREPARATION BENCH SHEET

Apex Laboratories

BATCH #: 0050467 (Water)

Prep Method: EPA 5030B

Lab Number	Cont.	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	ClientID / Sample	Extraction Comments	pH*
0050467-BLK1		QC	05/13/20 07:30	5	5							
0050467-BS1		QC	05/13/20 07:30	5	5	A20E075		5				
0050467-BS2		QC	05/13/20 07:30	5	5	A20E074		5				
A0E0326-01	A	8260D Halogenated VOCs	05/13/20 09:21	5	5					P89332 / EFF-051220	Run trip blanks at all times	<2
A0E0326-01	A	8260D Full List	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2
A0E0326-01	A	8260D BTEX	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2
A0E0326-01	A	8260C BTEX+Halo6	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2
A0E0326-01	A	624.1 Volatiles	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2
A0E0326-01	A	NWTPH-Gx	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2
A0E0326-01	A	624.1 TCE+Naphthalene	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2
0050467-DUP1		QC	05/13/20 09:21	5	5		A0E0326-01					<2
A0E0326-02	A	8260D Halogenated VOCs	05/13/20 09:21	5	5					P89332 / INF-051220	Run trip blanks at all times	<2
A0E0326-02RE1	A	8260D Halogenated VOCs	05/13/20 09:21	5	5					P89332 / INF-051220	10X RR-02B TCE only	<2
A0E0326-03	A	8260D Halogenated VOCs	05/13/20 09:21	5	5					P89332 / Trip Blank #2168	Run trip blanks at all times	<2
A0E0328-01	A	NWTPH-Gx	05/13/20 09:21	5	5					P89332 / INF-051220	MDL	<2
A0E0328-01	A	8260D BTEX	05/13/20 09:21	5	5					P89332 / INF-051220	MDL	<2
A0E0328-02	A	8260D Full List	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2
A0E0328-02	A	8260C BTEX+Halo6	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2
A0E0328-02	A	8260D Halogenated VOCs	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2
A0E0328-02	A	NWTPH-Gx	05/13/20 09:21	5	5					P89332 / EFF-051220	MDL	<2
A0E0328-02	A	8260D BTEX	05/13/20 09:21	5	5					P89332 / EFF-051220	MDL	<2
A0E0328-02	A	624.1 Volatiles	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2

PS/TNL 05/14/20
Prepared By: Date

dgj 5/14/20
Reviewed By: Date

Printed: 5/14/2020 1:02:02PM

PREPARATION BENCH SHEET

Apex Laboratories

BATCH #: 0050467 (Water)

Prep Method: EPA 5030B

Lab Number	Cont.	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	ClientID / Sample	Extraction Comments	pH*
A0E0328-02	A	624.1 TCE+Naphthalene	05/13/20 09:21	5	5					P89332 / EFF-051220	Added for BatchQC in: 0050467	<2
0050467-MS1		QC	05/13/20 09:21	5	5	A20E075	A0E0328-02	5				<2
A0E0340-01	A	624.1 Volatiles	05/13/20 13:33	5	5					CI	Custom: Trihalomethanes only	<2
A0E0344-01	A	624.1 Volatiles	05/13/20 13:33	5	5					Small Evap. Pond	Custom: Trihalomethanes only	<2
A0E0344-02	A	624.1 Volatiles	05/13/20 13:33	5	5					Large Evap. Pond	2/3 Voas have HS. Custom: Trihalor	<2
A0E0345-01	A	624.1 TCE+Naphthalene	05/13/20 13:33	5	5					Wastewater-Grab		<2
A0E0346-01	A	NWTPH-Gx	05/13/20 13:33	5	5					Tank #11	5 day TAT	<2
A0E0346-01	A	8260D BTEX	05/13/20 13:33	5	5					Tank #11	5 day TAT	<2
A0E0347-01	A	8260C BTEX+Halo6	05/13/20 15:00	5	5					PDI-FB-2005121245	CAP TESTING/Waters	<2
A0E0347-02	A	8260C BTEX+Halo6	05/13/20 15:00	5	5					PDI-RB-2005121245	CAP TESTING/Waters	<2
A0E0368-01	A	NWTPH-Gx	05/13/20 15:00	5	5					MW1		<2
A0E0368-01	A	8260D Full List	05/13/20 15:00	5	5					MW1	mg/kg	<2
A0E0368-02	A	NWTPH-Gx	05/13/20 15:00	5	5					MW2		<2
A0E0368-02	A	8260D Full List	05/13/20 15:00	5	5					MW2	mg/kg	<2
A0E0368-03	A	NWTPH-Gx	05/13/20 15:00	5	5					MW3		<2
A0E0368-03	A	8260D Full List	05/13/20 15:00	5	5					MW3	mg/kg	<2
A0E0368-04	A	8260D Full List	05/13/20 15:00	5	5					MW4	mg/kg	<2
A0E0368-04	A	NWTPH-Gx	05/13/20 15:00	5	5					MW4		<2
A0E0368-05	A	8260D Full List	05/13/20 15:00	5	5					MW4-DUP	mg/kg	<2
A0E0368-05	A	NWTPH-Gx	05/13/20 15:00	5	5					MW4-DUP		<2
A0E0368-06	A	NWTPH-Gx	05/13/20 15:00	5	5					MW5		<2
A0E0368-06	A	8260D Full List	05/13/20 15:00	5	5					MW5	mg/kg	<2

Prepared By: Date

dgj 5/14/20

Reviewed By: Date

Printed: 5/14/2020 1:02:02PM

PREPARATION BENCH SHEET

Apex Laboratories

BATCH #: 0050467 (Water)

Prep Method: EPA 5030B

Lab Number	Cont.	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	ClientID / Sample	Extraction Comments	pH*
A0E0368-07	A	8260D Full List	05/13/20 15:00	5	5					Trip Blank	mg/kg	<2

*pH <2 verified PS 05/14/20

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description

Analyte Spike(s)

Std ID	Exp. Date	Description
A20E074	09/13/20	Prim NWTPH-Gx Spike (500 ug/mL)
A20E075	10/05/20	8260 Cal. Std. B VOC+OXY Spike (20-40ug/mL

Surrogate(s)

Std ID	Exp. Date	Description

GCMS7

PS/TNL 05/14/20
Prepared By: Date

dgj 5/14/20
Reviewed By: Date

Printed: 5/14/2020 1:02:02PM

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 0E13029 Instrument: VOA-GCMS7

Date: **05/13/20 07:14** Calibration: **A0D3007**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E13029-IBL1	Water	QC	QC			A20D005	
2	0E13029-TUN1	Water	QC	QC			A20D005	
3	0E13029-CCV1	Water	QC	QC			A20C050	
4	0050467-BS1	Water	QC	QC		0050467	A20D005	
5	0E13029-CCV2	Water	QC	QC			A20C050	
6	0050467-BS2	Water	QC	QC		0050467	A20D005	
7	0050467-BLK1	Water	QC	QC		0050467	A20D005	
8	A0E0326-03	Water	8260D Halogenated VOCs		05/26/20	0050467	A20D005	
9	A0E0326-01	Water	8260D Halogenated VOCs		05/26/20	0050467	A20D005	
"	"	Water	624.1 Volatiles	(QC Source)		0050467	A20D005	
"	"	Water	624.1 TCE+Naphthalene	(QC Source)		0050467	A20D005	
"	"	Water	8260C BTEX+Halo6	(QC Source)		0050467	A20D005	
"	"	Water	8260D Full List	(QC Source)		0050467	A20D005	
"	"	Water	8260D BTEX	(QC Source)		0050467	A20D005	
"	"	Water	NWTPH-Gx	(QC Source)		0050467	A20D005	
10	0050467-DUP1	Water	QC	QC		0050467	A20D005	
11	A0E0326-02	Water	8260D Halogenated VOCs		05/26/20	0050467	A20D005	
12	A0E0328-01	Water	8260D BTEX		05/19/20	0050467	A20D005	
"	"	Water	NWTPH-Gx	"	05/19/20	0050467	A20D005	
13	A0E0328-02	Water	8260D BTEX		05/19/20	0050467	A20D005	
"	"	Water	NWTPH-Gx	"	05/19/20	0050467	A20D005	
"	"	Water	624.1 Volatiles	(QC Source)		0050467	A20D005	
"	"	Water	624.1 TCE+Naphthalene	(QC Source)		0050467	A20D005	
"	"	Water	8260C BTEX+Halo6	(QC Source)		0050467	A20D005	
"	"	Water	8260D Full List	(QC Source)		0050467	A20D005	
"	"	Water	8260D Halogenated VOCs	(QC Source)		0050467	A20D005	
14	0050467-MS1	Water	QC	QC		0050467	A20D005	
15	0E13029-IBL2	Water	QC	QC			A20D005	
16	A0E0326-02RE1	Water	8260D Halogenated VOCs		05/26/20	0050467	A20D005	
17	A0E0345-01	Water	624.1 TCE+Naphthalene		05/27/20	0050467	A20D005	
18	A0E0346-01	Water	8260D BTEX		05/19/20	0050467	A20D005	
"	"	Water	NWTPH-Gx	"	05/19/20	0050467	A20D005	
19	A0E0340-01	Water	624.1 Volatiles		05/27/20	0050467	A20D005	
20	A0E0344-01	Water	624.1 Volatiles		05/27/20	0050467	A20D005	
21	A0E0344-02	Water	624.1 Volatiles		05/27/20	0050467	A20D005	
22	0E13029-IBL3	Water	QC	QC			A20D005	
23	A0E0347-01	Water	8260C BTEX+Halo6	Anchor QEA, LLC	05/27/20	0050467	A20D005	
24	A0E0347-02	Water	8260C BTEX+Halo6	Anchor QEA, LLC	05/27/20	0050467	A20D005	
25	A0E0368-07	Water	8260D Full List		05/22/20	0050467	A20D005	
26	A0E0368-01	Water	8260D Full List		05/22/20	0050467	A20D005	
"	"	Water	NWTPH-Gx		05/20/20	0050467	A20D005	
27	A0E0368-02	Water	8260D Full List		05/22/20	0050467	A20D005	
"	"	Water	NWTPH-Gx		05/20/20	0050467	A20D005	
28	A0E0368-03	Water	8260D Full List		05/22/20	0050467	A20D005	
"	"	Water	NWTPH-Gx		05/20/20	0050467	A20D005	
29	A0E0368-04	Water	8260D Full List		05/22/20	0050467	A20D005	
"	"	Water	NWTPH-Gx		05/20/20	0050467	A20D005	
30	A0E0368-05	Water	8260D Full List		05/22/20	0050467	A20D005	
"	"	Water	NWTPH-Gx		05/20/20	0050467	A20D005	
31	A0E0368-06	Water	8260D Full List		05/22/20	0050467	A20D005	
"	"	Water	NWTPH-Gx	"	05/20/20	0050467	A20D005	

Sequence:	0E13029	Instrument:	VOA-GCMS7		
Date:	**05/13/20 07:14**	Calibration:	**A0D3007**		

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
32	0E13029-IBL4	Water	QC	QC			A20D005	
33	0E13029-IBL5	Water	QC	QC			A20D005	

cis-1,3-DCP MDL & MRL UP 1/2ppb
A0E0344 & A0E0340 Trihalomethane only

Comments:

Data Entered By: PS/TNL 05/14/20

Data Reviewed By: dgj 5/14/20

5/14/2020 1:02:47PM

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051302.D
Acq On : 13 May 2020 8:14 am 05/14/20 tnl
Operator : PS
Sample : 0E13029-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 16:52:30 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

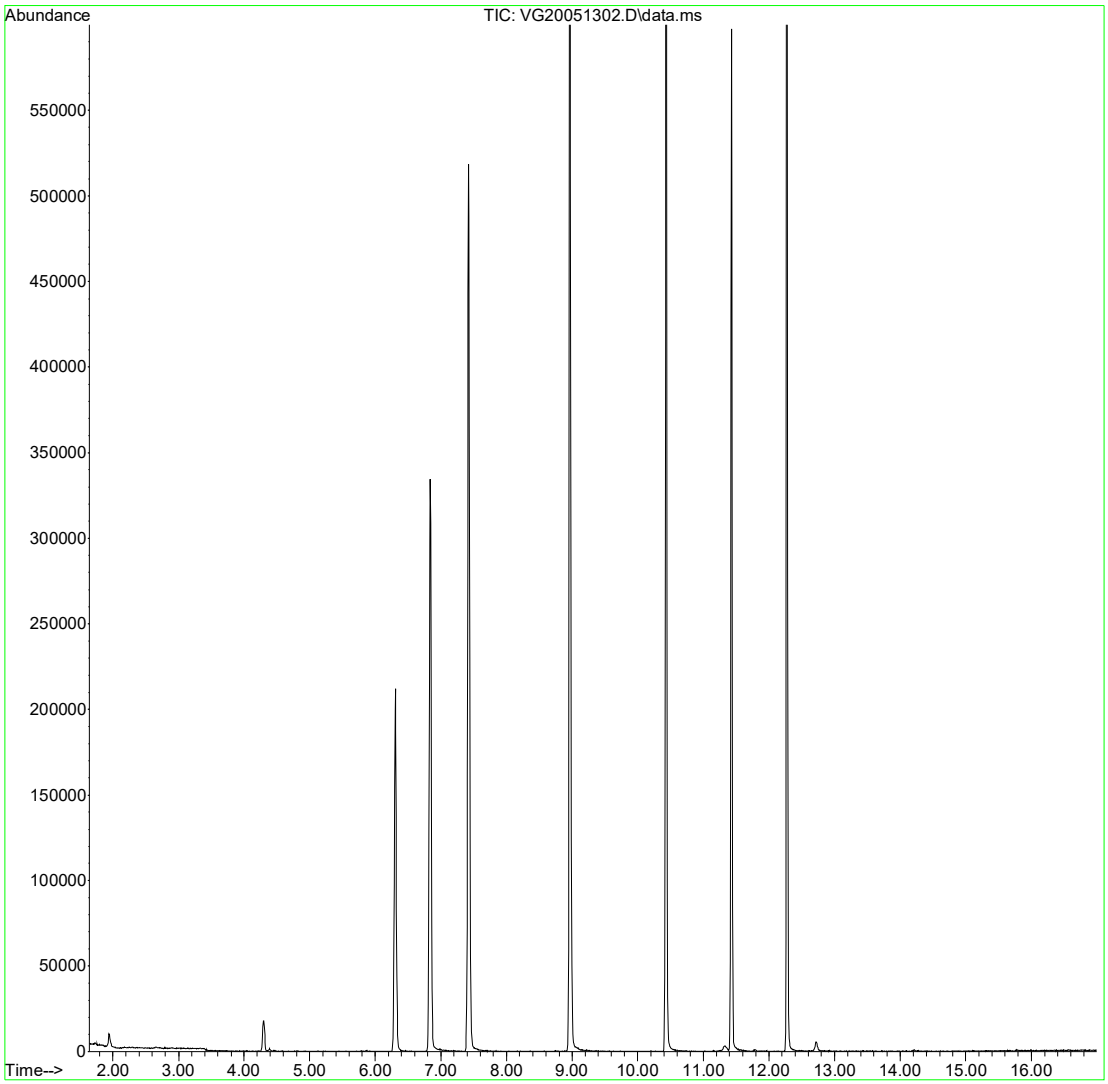
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	130207	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	395923	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	173170	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	146312	56.52	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	461434	55.08	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	538589	49.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	140281	50.49	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.978	50	296	0.09	ug/L		79
6) Chloroethane	2.722	64	143	Below Cal		#	61
8) Ethanol	3.606	45	111	1.65	ug/L	#	29
14) Methylene Chloride	4.301	84	8549	2.88	ug/L		97
15) Acetone	4.392	43	1537	1.15	ug/L		78
19) tert-Butanol (TBA)	4.807	59	132	0.33	ug/L	#	46
23) Vinyl Acetate	5.386	43	10	1.13	ug/L		74
61) m,p-Xylenes (2)	10.599	91	10	0.14	ug/L	#	34

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051302.D
Acq On : 13 May 2020 8:14 am
Operator : PS
Sample : 0E13029-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 16:52:30 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



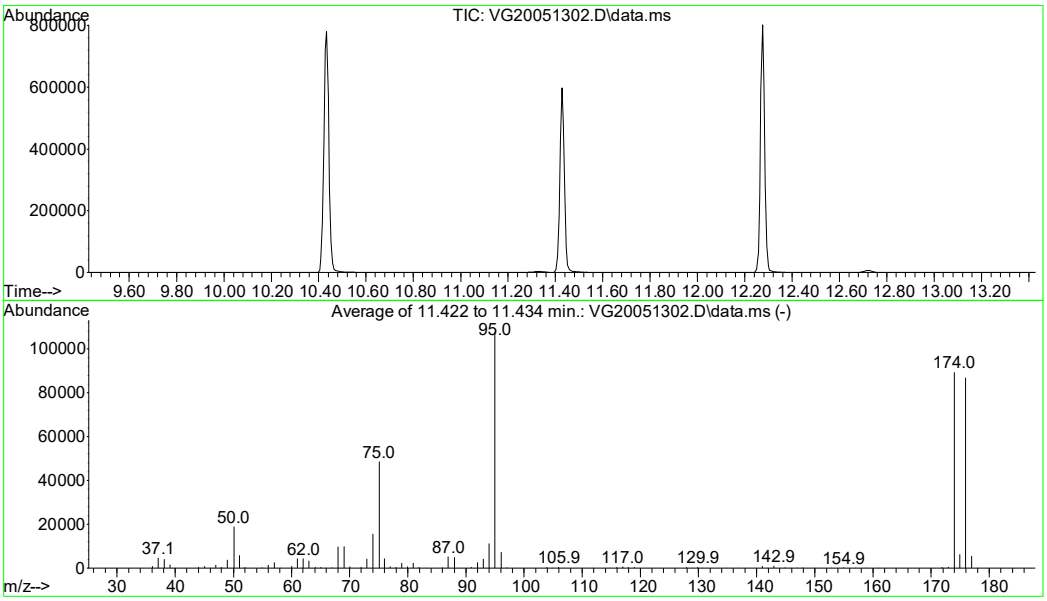
BFB

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051302.D
Acq On : 13 May 2020 8:14 am
Operator : PS
Sample : 0E13029-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 2 Sample Multiplier: 1

05/14/20 tnl

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Wed Apr 29 15:17:10 2020



AutoFind: Scans 1605, 1606, 1607; Background Corrected with Scan 1598

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	120.8	107717	PASS
96	95	5	9	6.7	7169	PASS
173	174	0.00	2	0.6	538	PASS
174	95	50	200	82.8	89195	PASS
175	174	5	9	7.0	6253	PASS
176	174	95	105	97.2	86717	PASS
177	176	5	10	6.3	5484	PASS

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051303.D 05/14/20 tnl
Acq On : 13 May 2020 8:41 am
Operator : PS
Sample : 0050467-BS1
Misc : 1X 5mL A20E075 20-40PPB VOCO
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 16:52:53 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)	
1	I	Pentafluorobenzene (I)	50.000	50.000	0.0	112	0.00	
2		Dichlorodifluoromethane	20.000	16.664	16.7	99	0.00	
3	P	Chloromethane	20.000	16.006	20.0	94	0.00	
4	C	Vinyl Chloride	20.000	17.961	10.2	103	0.00	
5		Bromomethane	20.000	18.081	9.6	98	0.00	
6		Chloroethane	20.000	19.973	0.1	116	-0.01	
7		Trichlorofluoromethane	20.000	20.314	-1.6	118	-0.02	
8		Ethanol	1250.000	1169.015	6.5	104	0.00	
9	C	1,1-Dichloroethene	20.000	20.119	-0.6	111	0.00	
10		Carbon Disulfide	20.000	22.428	-12.1	118	0.00	
11		Freon 113	20.000	21.920	-9.6	123	-0.02	
12		Iodomethane	20.000	8.781	56.1#	35	0.00	NR
13		Acrolein	20.000	0.000	100.0#	0	-4.01#	
14		Methylene Chloride	20.000	19.817	0.9	111	0.00	
15		Acetone	40.000	35.055	12.4	98	-0.01	
16		t-1,2-Dichloroethene	20.000	19.367	3.2	107	0.00	
17		n-Hexane	20.000	22.636	-13.2	125	0.00	
18		Methyl-tert-butyl-ether	20.000	21.855	-9.3	109	0.00	
19		tert-Butanol (TBA)	1250.000	1458.650	-16.7	113	0.00	
20		Diisopropyl ether (DIPE)	5.000	4.853	2.9	100	0.00	
21	P	1,1-Dichloroethane	20.000	20.445	-2.2	111	0.00	
22		Acrylonitrile	20.000	20.268	-1.3	103	0.00	
23		Vinyl Acetate	20.000	1.827	90.9#	5	-0.01	
24		Ethyl-tert-butyl ether (ETB	5.000	4.930	1.4	100	0.00	
25		c-1,2-Dichloroethene	20.000	19.694	1.5	103	0.00	
26		2,2-Dichloropropane	20.000	27.482	-37.4#	147	-0.01	Q56
27		Bromochloromethane	20.000	19.314	3.4	109	0.00	
28	C	Chloroform	20.000	20.377	-1.9	113	0.00	
29		Carbon Tetrachloride	20.000	24.566	-22.8#	124	-0.01	Q56
30		Tetrahydrofuran	20.000	18.051	9.7	96	0.00	
31		1,1,1-Trichloroethane	20.000	22.115	-10.6	119	0.00	
32	S	Dibromofluoromethane (S)	50.000	50.936	-1.9	116	0.00	
33		1,1-Dichloropropene	20.000	22.080	-10.4	110	-0.01	
34		2-Butanone (MEK)	40.000	41.022	-2.6	104	0.00	

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051303.D
Acq On : 13 May 2020 8:41 am
Operator : PS
Sample : 0050467-BS1
Misc : 1X 5mL A20E075 20-40PPB VOCO
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 16:52:53 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
35		Benzene	20.000	20.879	-4.4	109	0.00
36		tert-Amyl methyl ether (TAM	5.000	5.188	-3.8	112	0.03
37		1,2-Dichloroethane (EDC)	20.000	20.549	-2.7	113	0.00
38		iso-Butyl Alcohol	500.000	474.374	5.1	103	-0.02
39	S	1,4-Difluorobenzene (S)	50.000	49.667	0.7	114	0.00
40		Trichloroethene (TCE)	20.000	19.162	4.2	108	-0.01
41		tert-Amyl ethyl ether (TAEE	5.000	5.373	-7.5	110	0.00
42		Dibromomethane	20.000	20.716	-3.6	114	0.01
43	C	1,2-Dichloropropane	20.000	20.042	-0.2	108	-0.01
44		Bromodichloromethane	20.000	21.784	-8.9	112	0.00
45		Chlorobenzene-d5 (I)	50.000	50.000	0.0	116	0.00
46		2-Chloroethyl Vinyl Ether	20.000	1.050	94.8#	2	0.06
47		c-1,3-Dichloropropene	20.000	17.285	13.6	101	-0.01
48	S	Toluene-d8 (S)	50.000	47.827	4.3	112	0.00
49	C	Toluene	20.000	19.546	2.3	113	0.00
50		Tetrachloroethene (PCE)	20.000	21.405	-7.0	118	0.00
51		4-Methyl-2-Pentanone (MIBK)	40.000	39.591	1.0	106	-0.03
52		t-1,3-Dichloropropene	20.000	20.231	-1.2	119	-0.02
53		1,1,2-Trichloroethane	20.000	20.267	-1.3	113	-0.02
54		Dibromochloromethane	20.000	19.641	1.8	115	0.00
55		1,3-Dichloropropane	20.000	19.974	0.1	109	0.00
56		1,2-Dibromoethane (EDB)	20.000	21.034	-5.2	110	0.00
57		2-Hexanone	40.000	38.522	3.7	105	-0.03
58	P	Chlorobenzene	20.000	19.872	0.6	115	0.00
59	C	Ethylbenzene	20.000	20.766	-3.8	113	-0.01
60		1,1,1,2-Tetrachloroethane	20.000	21.591	-8.0	117	0.00
61		m,p-Xylenes (2)	40.000	40.069	-0.2	113	0.00
62		o-Xylene	20.000	18.847	5.8	108	0.00
63		Styrene	20.000	19.783	1.1	111	-0.02
64	P	Bromoform	20.000	19.542	2.3	120	0.00
65		Isopropylbenzene	20.000	19.582	2.1	111	0.00
66	I	1,4-Dichlorobenzene-d4 (I)	50.000	50.000	0.0	123	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051303.D
Acq On : 13 May 2020 8:41 am
Operator : PS
Sample : 0050467-BS1
Misc : 1X 5mL A20E075 20-40PPB VOCO
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 16:52:53 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
67	S	4-Bromofluorobenzene (S)	50.000	47.815	4.4	121	0.00
68		Bromobenzene	20.000	19.310	3.5	117	0.00
69		n-Propylbenzene	20.000	19.854	0.7	114	0.00
70	P	1,1,2,2-Tetrachloroethane	20.000	19.742	1.3	122	-0.01
71		2-Chlorotoluene	20.000	19.834	0.8	115	-0.01
72		1,3,5-Trimethylbenzene	20.000	20.853	-4.3	115	0.00
73		1,2,3-Trichloropropane	20.000	19.672	1.6	117	0.00
74		t-1,4-Dichloro-2-butene	20.000	19.819	0.9	128	0.00
75		4-Chlorotoluene	20.000	20.244	-1.2	113	0.00
76		tert-Butylbenzene	20.000	20.115	-0.6	112	0.00
77		1,2,4-Trimethylbenzene	20.000	20.737	-3.7	115	0.00
78		sec-Butylbenzene	20.000	20.486	-2.4	115	0.00
79		4-Isopropyltoluene	20.000	19.291	3.5	115	0.00
80		1,3-Dichlorobenzene	20.000	20.937	-4.7	120	0.00
81		1,4-Dichlorobenzene	20.000	19.080	4.6	119	0.00
82		n-Butylbenzene	20.000	20.741	-3.7	116	0.00
83		1,2-Dichlorobenzene	20.000	20.816	-4.1	117	0.00
84		1,2-Dibromo-3-Chloropropane	20.000	19.581	2.1	121	0.00
85		Hexachlorobutadiene	20.000	21.895	-9.5	125	0.00
86		1,2,4-Trichlorobenzene	20.000	19.211	3.9	110	-0.02
87		Naphthalene	20.000	18.641	6.8	109	-0.01
88		1,2,3-Trichlorobenzene	20.000	21.639	-8.2	116	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051303.D
Acq On : 13 May 2020 8:41 am
Operator : PS
Sample : 0050467-BS1
Misc : 1X 5mL A20E075 20-40PPB VOCO 05/14/20 tnl
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 16:52:53 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	162765	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	467489	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	238883	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.301	111	164836	50.94	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	520119	49.67	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	610433	47.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	183245	47.82	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	56377	16.66	ug/L		98
3) Chloromethane	1.978	50	64217	16.01	ug/L		97
4) Vinyl Chloride	2.100	62	71999	17.96	ug/L		98
5) Bromomethane	2.533	96	43311	18.08	ug/L		97
6) Chloroethane	2.710	64	24354	19.97	ug/L		93
7) Trichlorofluoromethane	2.899	101	82882	20.31	ug/L		99
8) Ethanol	3.618	45	98520	1169.02	ug/L		85
9) 1,1-Dichloroethene	3.563	61	91184	20.12	ug/L		96
10) Carbon Disulfide	3.563	76	127116	22.43	ug/L		99
11) Freon 113	3.636	101	62763	21.92	ug/L		93
12) Iodomethane	3.722	142	5373	8.78	ug/L		98
14) Methylene Chloride	4.295	84	73484	19.82	ug/L		95
15) Acetone	4.380	43	58583	35.05	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	85742	19.37	ug/L		99
17) n-Hexane	4.588	86	9333	22.64	ug/L	#	43
18) Methyl-tert-butyl-ether	4.636	73	157059	21.86	ug/L		99
19) tert-Butanol (TBA)	4.801	59	719078	1458.65	ug/L	#	76
20) Diisopropyl ether (DIPE)	5.087	45	39334	4.85	ug/L		97
21) 1,1-Dichloroethane	5.191	63	119463	20.45	ug/L		99
22) Acrylonitrile	5.264	53	37330	20.27	ug/L		96
23) Vinyl Acetate	5.490	43	4170	1.83	ug/L		58
24) Ethyl-tert-butyl ether...	5.490	59	30875	4.93	ug/L		91
25) c-1,2-Dichloroethene	5.795	61	83833	19.69	ug/L		100
26) 2,2-Dichloropropane	5.910	77	67671	27.48	ug/L		77
27) Bromochloromethane	6.014	49	61847	19.31	ug/L		95
28) Chloroform	6.106	83	114629	20.38	ug/L		96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051303.D
Acq On : 13 May 2020 8:41 am
Operator : PS
Sample : 0050467-BS1
Misc : 1X 5mL A20E075 20-40PPB VOCO
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 16:52:53 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) Carbon Tetrachloride	6.234	117	69930	24.57	ug/L		98
30) Tetrahydrofuran	6.282	42	28619	18.05	ug/L		93
31) 1,1,1-Trichloroethane	6.313	97	90035	22.11	ug/L		95
33) 1,1-Dichloropropene	6.453	75	83580	22.08	ug/L		98
34) 2-Butanone (MEK)	6.453	43	100315	41.02	ug/L		100
35) Benzene	6.727	78	269712	20.88	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	32193	5.19	ug/L		73
37) 1,2-Dichloroethane (EDC)	6.953	62	90253	20.55	ug/L		99
38) iso-Butyl Alcohol	7.014	43	146058	474.37	ug/L		91
40) Trichloroethene (TCE)	7.380	130	68388	19.16	ug/L		96
41) tert-Amyl ethyl ether ...	7.654	59	22270	5.37	ug/L		86
42) Dibromomethane	7.855	93	45330	20.72	ug/L		89
43) 1,2-Dichloropropane	7.965	63	69724	20.04	ug/L		98
44) Bromodichloromethane	8.044	83	76114	21.78	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.776	63	453	1.05	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	77329	17.29	ug/L		96
49) Toluene	9.020	91	288881	19.55	ug/L		99
50) Tetrachloroethene (PCE)	9.410	166	65419	21.41	ug/L		92
51) 4-Methyl-2-Pentanone (...	9.410	43	191492	39.59	ug/L		100
52) t-1,3-Dichloropropene	9.446	75	82195	20.23	ug/L		98
53) 1,1,2-Trichloroethane	9.599	97	67491	20.27	ug/L		96
54) Dibromochloromethane	9.769	129	59427	19.64	ug/L		98
55) 1,3-Dichloropropane	9.855	76	106511	19.97	ug/L		98
56) 1,2-Dibromoethane (EDB)	9.983	107	65323	21.03	ug/L		98
57) 2-Hexanone	10.190	43	138186	38.52	ug/L		100
58) Chlorobenzene	10.446	112	185128	19.87	ug/L		99
59) Ethylbenzene	10.464	91	303096	20.77	ug/L		98
60) 1,1,1,2-Tetrachloroethane	10.501	131	57117	21.59	ug/L		94
61) m,p-Xylenes (2)	10.592	91	447788	40.07	ug/L		98
62) o-Xylene	10.946	91	206589	18.85	ug/L		96
63) Styrene	10.995	104	173260	19.78	ug/L		97
64) Bromoform	11.019	173	42498	19.54	ug/L		97
65) Isopropylbenzene	11.202	105	249634	19.58	ug/L		99
68) Bromobenzene	11.513	156	75603	19.31	ug/L		91
69) n-Propylbenzene	11.525	91	308754	19.85	ug/L		97
70) 1,1,2,2-Tetrachloroethane	11.586	83	95531	19.74	ug/L		97
71) 2-Chlorotoluene	11.647	126	64332	19.83	ug/L		93
72) 1,3,5-Trimethylbenzene	11.672	105	211379	20.85	ug/L		95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051303.D
Acq On : 13 May 2020 8:41 am
Operator : PS
Sample : 0050467-BS1
Misc : 1X 5mL A20E075 20-40PPB VOCO
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 16:52:53 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

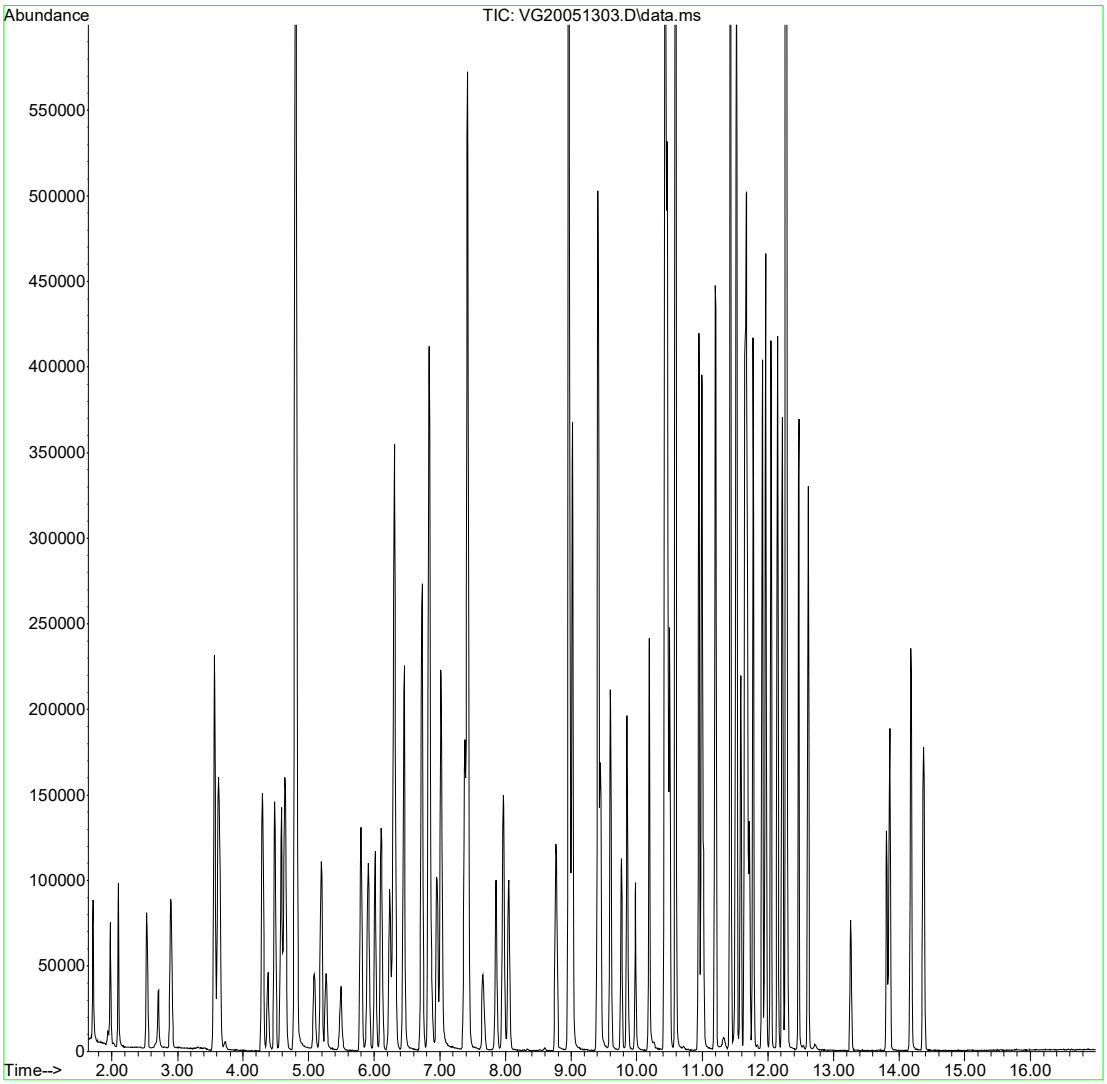
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,2,3-Trichloropropane	11.690	110	29968	19.67	ug/L #	80
74) t-1,4-Dichloro-2-butene	11.720	88	10419	19.82	ug/L #	83
75) 4-Chlorotoluene	11.775	91	193669	20.24	ug/L	97
76) tert-Butylbenzene	11.915	91	104690	20.11	ug/L	94
77) 1,2,4-Trimethylbenzene	11.964	105	207575	20.74	ug/L	97
78) sec-Butylbenzene	12.043	105	240301	20.49	ug/L	94
79) 4-Isopropyltoluene	12.147	119	187372	19.29	ug/L	98
80) 1,3-Dichlorobenzene	12.220	146	129955	20.94	ug/L	98
81) 1,4-Dichlorobenzene	12.287	146	134655	19.08	ug/L	97
82) n-Butylbenzene	12.470	91	173311	20.74	ug/L	96
83) 1,2-Dichlorobenzene	12.610	146	122769	20.82	ug/L	97
84) 1,2-Dibromo-3-Chloropr...	13.263	157	18482	19.58	ug/L	81
85) Hexachlorobutadiene	13.811	223	15873	21.89	ug/L	96
86) 1,2,4-Trichlorobenzene	13.854	180	60152	19.21	ug/L	98
87) Naphthalene	14.177	128	191928	18.64	ug/L	99
88) 1,2,3-Trichlorobenzene	14.372	180	64102	21.64	ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051303.D
Acq On : 13 May 2020 8:41 am
Operator : PS
Sample : 0050467-BS1
Misc : 1X 5mL A20E075 20-40PPB VOCO
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 16:52:53 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051304.D
Acq On : 13 May 2020 9:08 am
Operator : PS
Sample : 0050467-BS2 05/14/20 tnl
Misc : 1X 5mL A20E074 500PPB GX
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 16:53:19 2020
Quant Method : C:\msdchem\1\methods\VG200429G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 30 13:33:36 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene (IS)	50.000	50.000	0.0	92	0.00
2	S	1,4-Difluorobenzene (Sur)	50.000	49.750	0.5	91	0.00
3	S	4-Bromofluorobenzene (Sur)	50.000	50.252	-0.5	93	0.00
4	H	NWTPH-Gx (TPH)	500.000	471.471	5.7	95	0.00
5	H	TPHg (C5-C9)	500.000	493.435	1.3	95	0.00
6	H	TPHg (C6-C10)	500.000	495.406	0.9	96	0.00
7	H	CA-LUFT (C5-C12)	500.000	485.319	2.9	94	0.00
8		Benzene (NR)	-1.000	0.000	0.0	0	0.00
9	S	Toluene-d8 (NR)	-1.000	0.000	0.0	0	0.00
10		Toluene (NR)	-1.000	0.000	0.0	0	0.00
11	S	Chlorobenzene-d5 (NR)	-1.000	0.000	0.0	0	0.00
12	S	1,4-Dichlorobenzene-d4 (NR)	-1.000	0.000	0.0	0	0.00
13		Naphthalene (NR)	-1.000	0.000	0.0	0	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051304.D
Acq On : 13 May 2020 9:08 am 05/14/20 tnl
Operator : PS
Sample : 0050467-BS2
Misc : 1X 5mL A20E074 500PPB GX
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 16:53:19 2020
Quant Method : C:\msdchem\1\methods\VG200429G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 30 13:33:36 2020
Response via : Initial Calibration

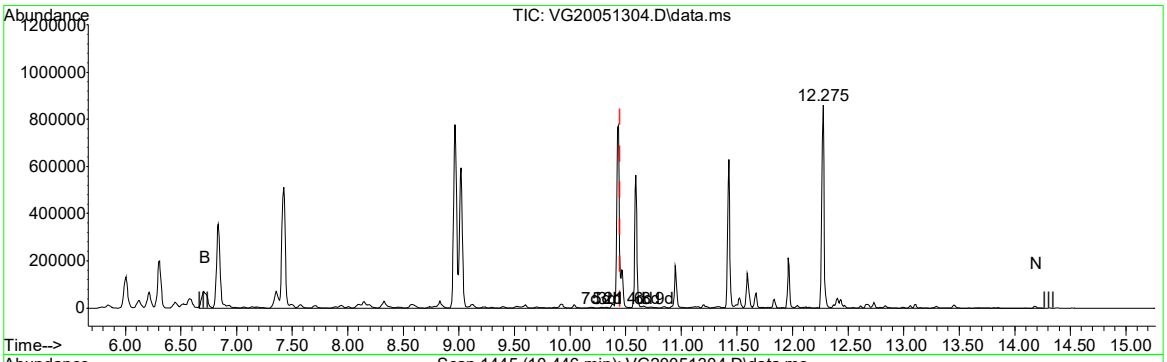
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	6.837	168	274219	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	7.422	114	457575	49.75	ug/L	0.00
3) 4-Bromofluorobenzene (...	11.428	174	147001	50.25	ug/L	0.00
9) Toluene-d8 (NR)	8.965	98	539013	0.00	ug/L	0.00
11) Chlorobenzene-d5 (NR)	10.434	117	399948	0.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4...	12.275	150	294832	0.00	ug/L	0.00
Target Compounds						Qvalue
4) NWTPH-Gx (TPH)	10.446	TIC	4807033m	471.47	ug/L	
5) TPHg (C5-C9)	10.446	TIC	6263475m	493.44	ug/L	
6) TPHg (C6-C10)	10.446	TIC	5442097m	495.41	ug/L	
7) CA-LUFT (C5-C12)	10.446	TIC	7498086m	485.32	ug/L	

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051304.D
Acq On : 13 May 2020 9:08 am
Operator : PS
Sample : 0050467-BS2
Misc : 1X 5mL A20E074 500PPB GX
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 16:53:19 2020
Quant Method : C:\msdchem\1\methods\VG200429G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 30 13:33:36 2020
Response via : Initial Calibration



TIC: VG20051304.D\data.ms

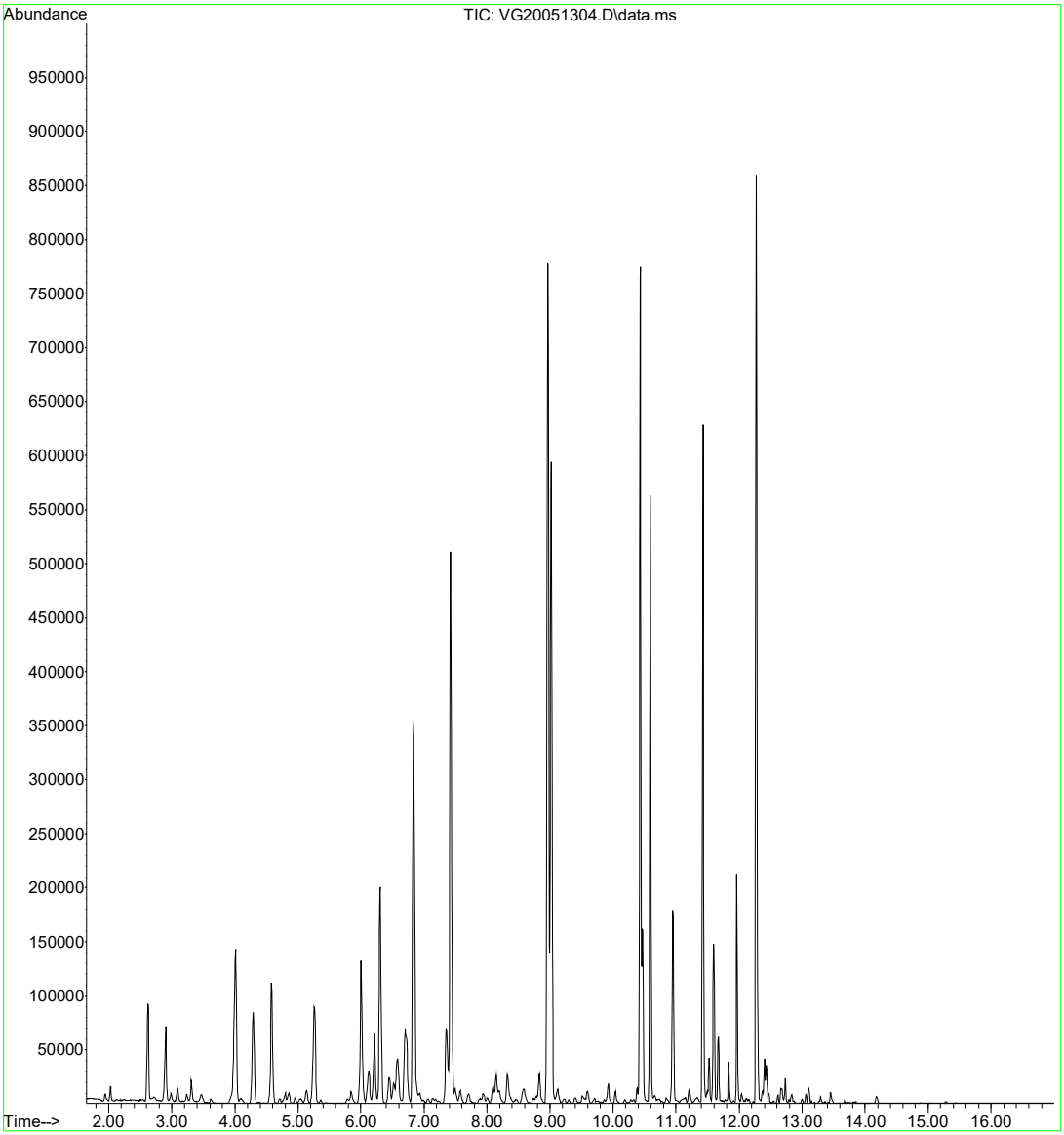
(4) NWTPH-Gx (TPH) (H)

10.446min (0.000) 471.47 ug/L m

response 4807033

Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.01#
0.00	0.00	0.01#
0.00	0.00	0.00

File   :C:\msdchem\1\data\2020-05\0E13029\VG20051304.D
Operator   : PS
Acquired   : 13 May 2020   9:08 am using AcqMethod VG1808RUN.M
Instrument :   VOA-GCMS7
Sample Name: 0050467-BS2
Misc Info : 1X   5mL A20E074 500PPB GX
Vial Number: 4



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051305.D
Acq On : 13 May 2020 9:35 am
Operator : PS
Sample : 0050467-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1

05/14/20 tnl

Quant Time: May 13 16:54:12 2020
Quant Method : C:\msdchem\1\methods\VG200429G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 30 13:33:36 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	6.837	168	265897	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	7.422	114	478137	53.61	ug/L	0.00
3) 4-Bromofluorobenzene (...	11.428	174	148622	52.40	ug/L	0.00
9) Toluene-d8 (NR)	8.965	98	560620	0.00	ug/L	0.00
11) Chlorobenzene-d5 (NR)	10.434	117	415082	0.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4...	12.275	150	285377	0.00	ug/L	0.00
Target Compounds						Qvalue
4) NWTPH-Gx (TPH)	10.446	TIC	90086m	26.61	ug/L	
5) TPHg (C5-C9)	10.446	TIC	577590m	31.09	ug/L	
6) TPHg (C6-C10)	10.446	TIC	530114m	32.74	ug/L	
7) CA-LUFT (C5-C12)	10.446	TIC	599598m	37.52	ug/L	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051305.D
Acq On : 13 May 2020 9:35 am
Operator : PS
Sample : 0050467-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 16:54:22 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

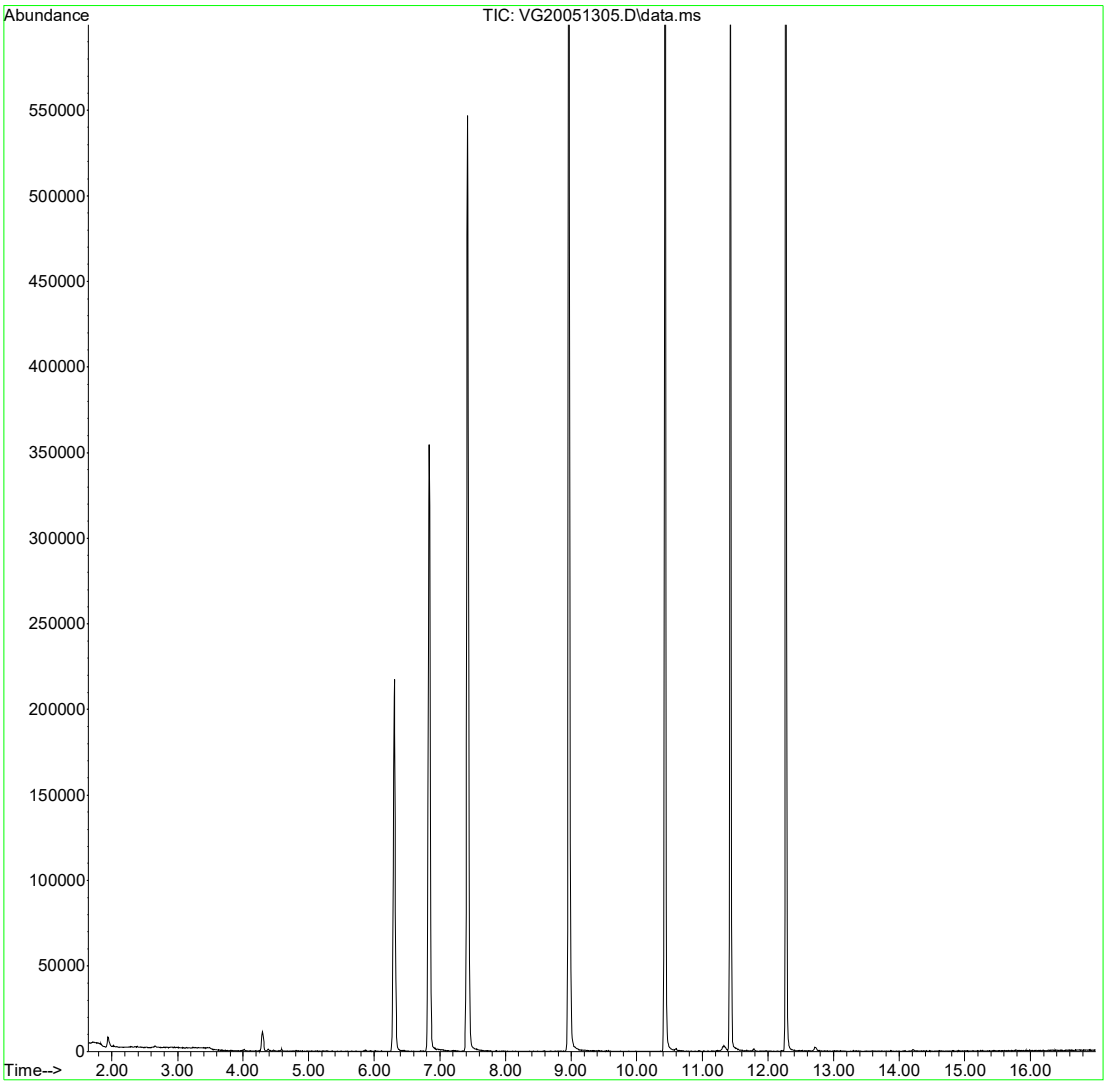
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	137620	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	414132	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	181058	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	149327	54.57	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	478137	54.00	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	559443	49.48	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	148195	51.02	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.978	50	472	0.14	ug/L		67
5) Bromomethane	2.533	96	190	0.09	ug/L	#	57
6) Chloroethane	2.728	64	142	Below Cal		#	63
8) Ethanol	3.606	45	155	2.18	ug/L		84
14) Methylene Chloride	4.295	84	5146	1.64	ug/L		98
15) Acetone	4.386	43	1310	0.93	ug/L		97
19) tert-Butanol (TBA)	4.813	59	297	0.71	ug/L	#	67
46) 2-Chloroethyl Vinyl Ether	8.593	63	10	0.76	ug/L	#	1
47) c-1,3-Dichloropropene	8.794	75	10	0.59	ug/L	#	33
49) Toluene	9.019	91	1525	0.12	ug/L		86
61) m,p-Xylenes (2)	10.598	91	775	0.22	ug/L		95
62) o-Xylene	10.952	91	217	0.11	ug/L		77
63) Styrene	11.019	104	10	0.20	ug/L	#	40
65) Isopropylbenzene	11.214	105	44	0.19	ug/L		53
77) 1,2,4-Trimethylbenzene	11.976	105	260	0.19	ug/L		62
79) 4-Isopropyltoluene	12.153	119	113	0.17	ug/L		51
87) Naphthalene	14.201	128	20	0.89	ug/L		79

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051305.D
Acq On : 13 May 2020 9:35 am
Operator : PS
Sample : 0050467-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 16:54:22 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051305.D
Acq On : 13 May 2020 9:35 am 05/14/20 tnl
Operator : PS
Sample : 0050467-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 16:54:57 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

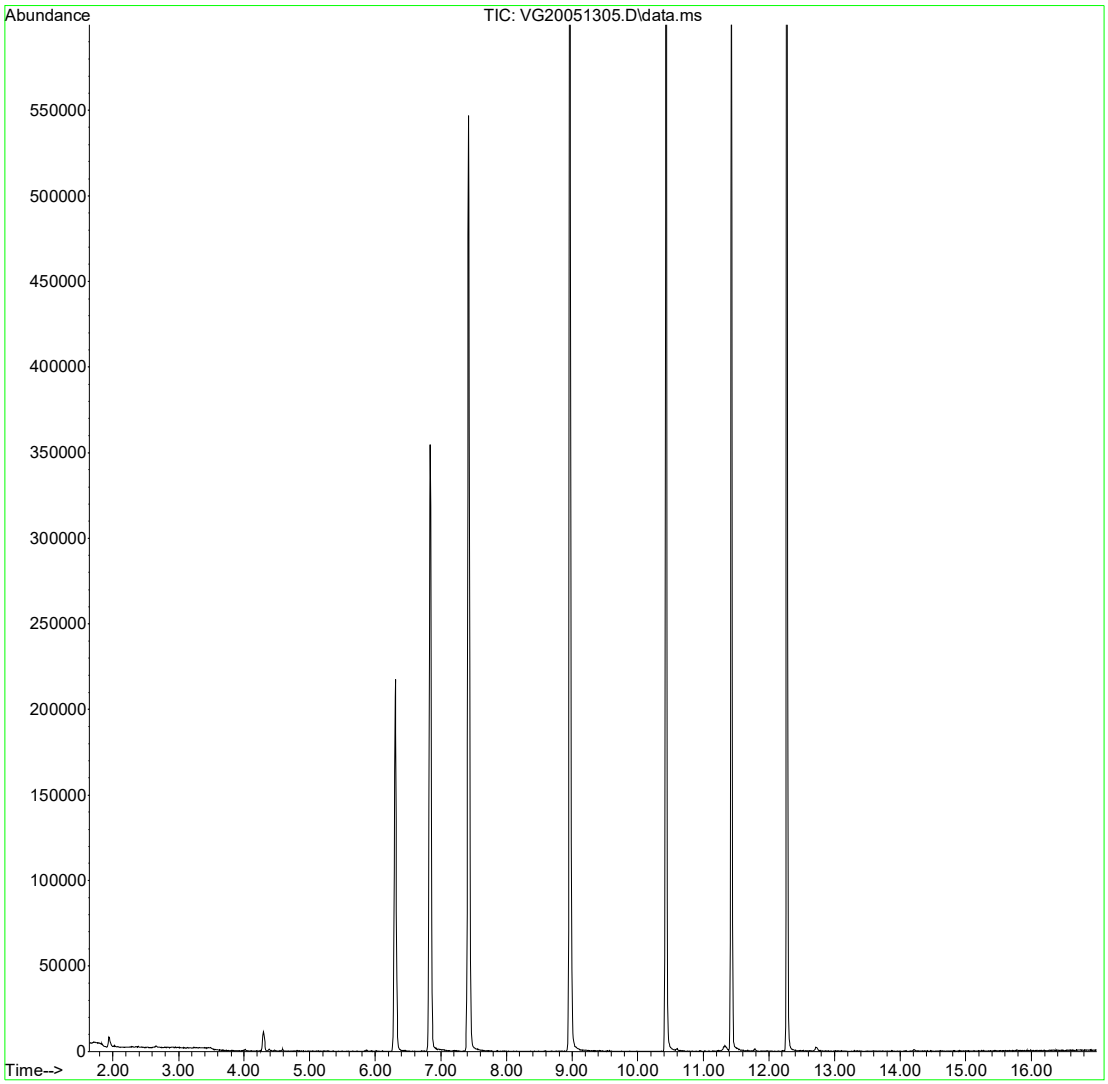
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	137620	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	414132	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	181058	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	149327	54.57	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	478137	54.00	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	559443	49.48	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	148195	51.02	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.978	50	472	0.14	ug/L		67
5) Bromomethane	2.533	96	190	0.09	ug/L	#	57
6) Chloroethane	2.728	64	142	Below Cal		#	63
8) Ethanol	3.606	45	155	2.18	ug/L		84
14) Methylene Chloride	4.295	84	5146	1.64	ug/L		98
15) Acetone	4.386	43	1310	0.93	ug/L		97
19) tert-Butanol (TBA)	4.813	59	297	0.71	ug/L	#	67
49) Toluene	9.019	91	1525	0.12	ug/L		86
61) m,p-Xylenes (2)	10.598	91	775	0.22	ug/L		95
62) o-Xylene	10.952	91	217	0.11	ug/L		77
77) 1,2,4-Trimethylbenzene	11.976	105	260	0.19	ug/L		62

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051305.D
Acq On : 13 May 2020 9:35 am
Operator : PS
Sample : 0050467-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 16:54:57 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051321.D
Acq On : 13 May 2020 4:50 pm
Operator : PS
Sample : A0E0347-01
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 14 09:23:54 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

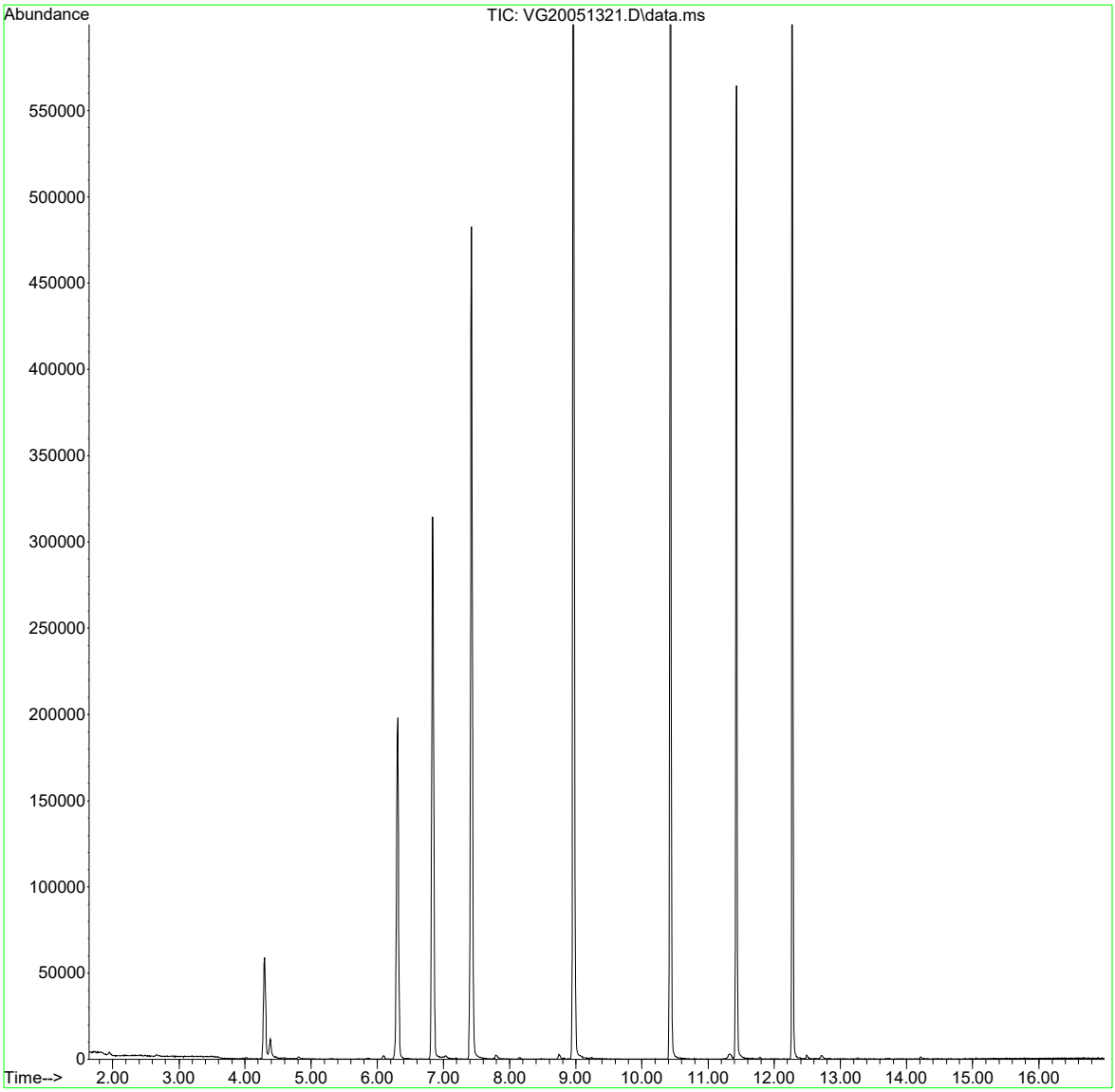
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	122743	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	369047	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	162453	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	135240	55.42	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	427882	54.18	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	506445	50.26	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	130704	50.15	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.978	50	324	0.11	ug/L		89
5) Bromomethane	2.539	96	192	0.11	ug/L		74
6) Chloroethane	2.722	64	59	Below Cal		#	45
8) Ethanol	3.612	45	438	6.89	ug/L		65
14) Methylene Chloride	4.301	84	1767	0.63	ug/L		91
15) Acetone	4.380	43	14107	11.19	ug/L		95
19) tert-Butanol (TBA)	4.813	59	857	2.31	ug/L	#	86
23) Vinyl Acetate	5.557	43	10	1.13	ug/L		74
30) Tetrahydrofuran	6.270	42	426	0.36	ug/L	#	30
38) iso-Butyl Alcohol	7.032	43	837	3.60	ug/L		73
61) m,p-Xylenes (2)	10.605	91	34	0.14	ug/L		92
79) 4-Isopropyltoluene	12.141	119	10	0.16	ug/L		51

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051321.D
Acq On : 13 May 2020 4:50 pm
Operator : PS
Sample : A0E0347-01
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 21 Sample Multiplier: 1

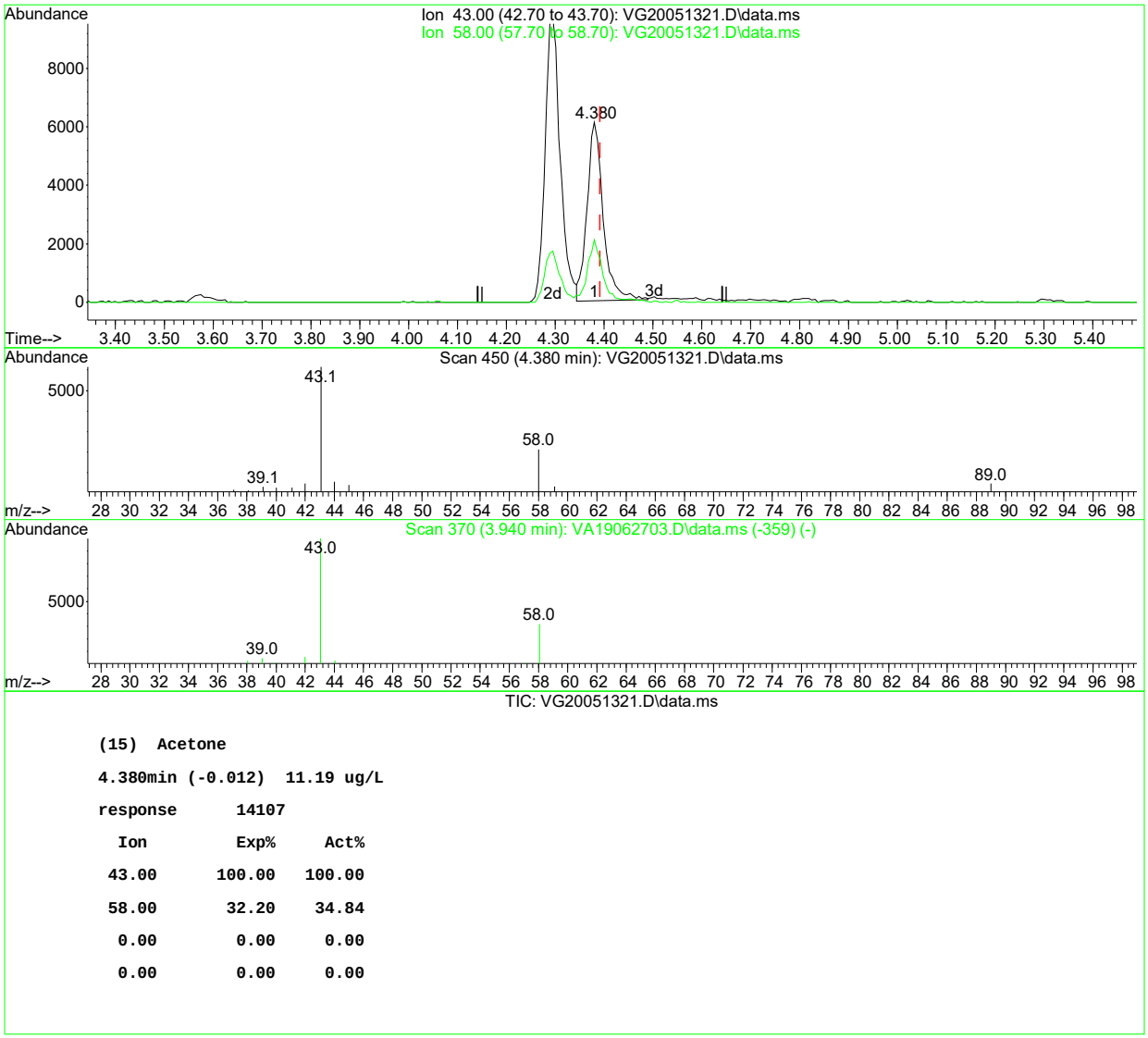
Quant Time: May 14 09:23:54 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051321.D
Acq On : 13 May 2020 4:50 pm
Operator : PS
Sample : A0E0347-01
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 14 09:23:54 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



TIC: VG20051321.D\data.ms

(15) Acetone

4.380min (-0.012) 11.19 ug/L

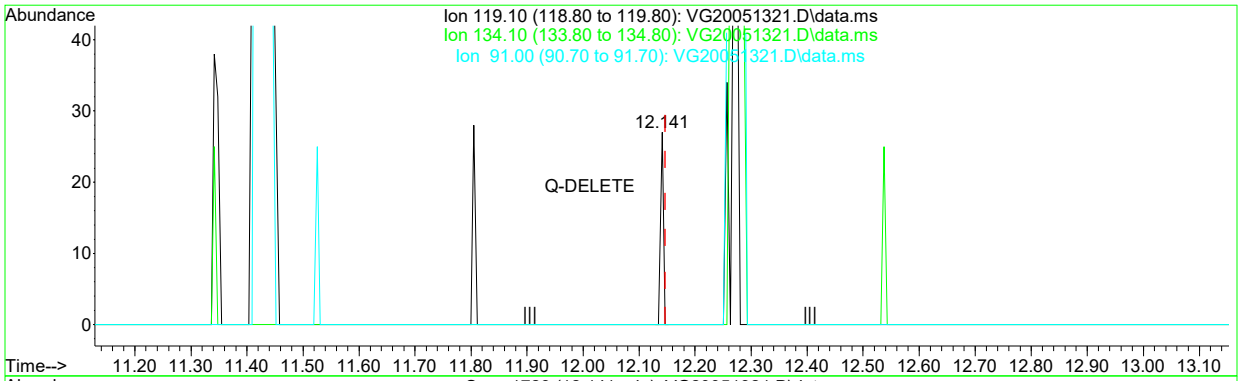
response 14107

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	32.20	34.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051321.D
Acq On : 13 May 2020 4:50 pm
Operator : PS
Sample : A0E0347-01
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 14 09:23:54 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



TIC: VG20051321.D\data.ms

(79) 4-Isopropyltoluene

12.141min (-0.006) 0.16 ug/L

response 10

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	26.60	0.00
91.00	21.70	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051321.D
Acq On : 13 May 2020 4:50 pm
Operator : PS
Sample : A0E0347-01
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 21 Sample Multiplier: 1

05/14/20 tnl

Quant Time: May 14 09:24:37 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

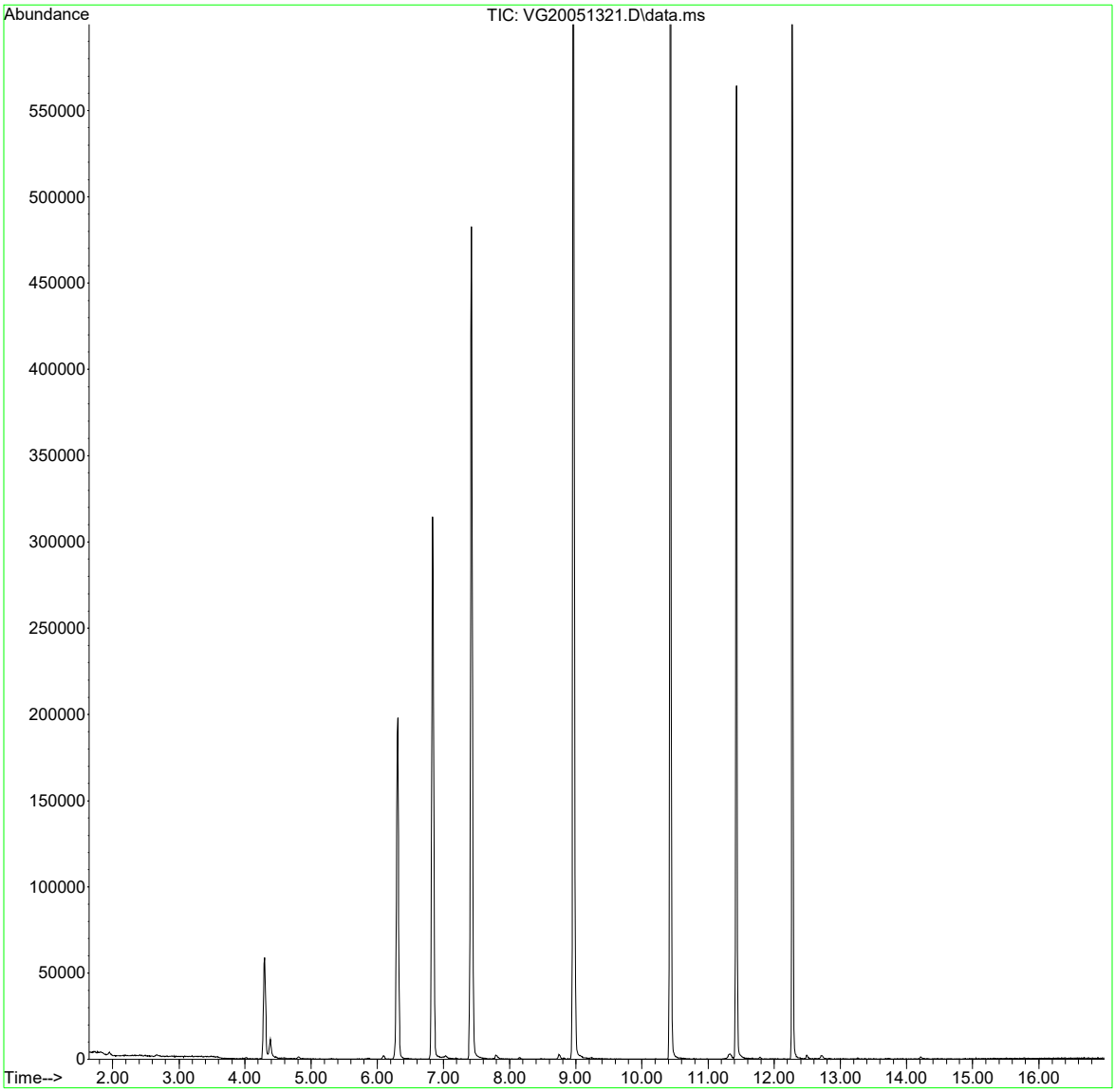
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	122743	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	369047	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	162453	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	135240	55.42	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	427882	54.18	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	506445	50.26	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	130704	50.15	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.978	50	324	0.11	ug/L		89
5) Bromomethane	2.539	96	192	0.11	ug/L		74
6) Chloroethane	2.722	64	59	Below Cal		#	45
8) Ethanol	3.612	45	438	6.89	ug/L		65
14) Methylene Chloride	4.301	84	1767	0.63	ug/L		91
15) Acetone	4.380	43	14107	11.19	ug/L		95
19) tert-Butanol (TBA)	4.813	59	857	2.31	ug/L	#	86
30) Tetrahydrofuran	6.270	42	426	0.36	ug/L	#	30
38) iso-Butyl Alcohol	7.032	43	837	3.60	ug/L		73
61) m,p-Xylenes (2)	10.605	91	34	0.14	ug/L		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051321.D
Acq On : 13 May 2020 4:50 pm
Operator : PS
Sample : A0E0347-01
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 14 09:24:37 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051322.D
Acq On : 13 May 2020 5:17 pm
Operator : PS
Sample : A0E0347-02
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 14 09:25:55 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

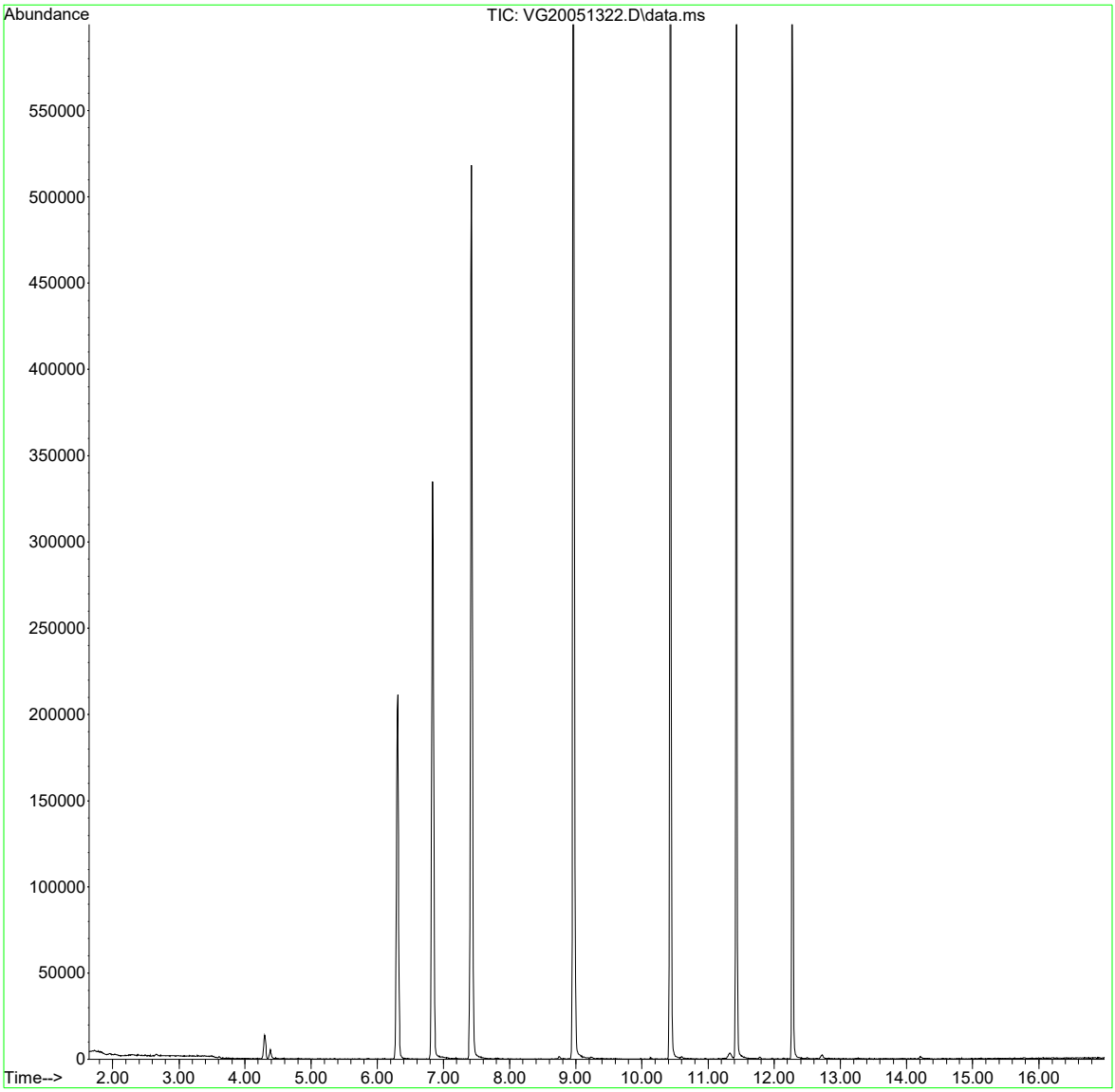
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	129552	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	392597	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	172205	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	144335	56.04	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	456342	54.75	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	536787	50.08	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.427	174	138712	50.21	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.984	50	303	0.09	ug/L	#	55
6) Chloroethane	2.728	64	131	Below Cal		#	47
8) Ethanol	3.606	45	573	8.54	ug/L		90
14) Methylene Chloride	4.301	84	6315	2.14	ug/L		96
15) Acetone	4.380	43	6543	4.92	ug/L		96
19) tert-Butanol (TBA)	4.807	59	170	0.43	ug/L	#	6
46) 2-Chloroethyl Vinyl Ether	8.715	63	10	0.76	ug/L	#	1
47) c-1,3-Dichloropropene	8.904	75	11	0.59	ug/L	#	33
61) m,p-Xylenes (2)	10.598	91	616	0.21	ug/L		86
62) o-Xylene	10.952	91	263	0.11	ug/L	#	55
79) 4-Isopropyltoluene	12.269	119	40	0.16	ug/L	#	1
87) Naphthalene	14.195	128	196	0.92	ug/L		79

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051322.D
Acq On : 13 May 2020 5:17 pm
Operator : PS
Sample : A0E0347-02
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 22 Sample Multiplier: 1

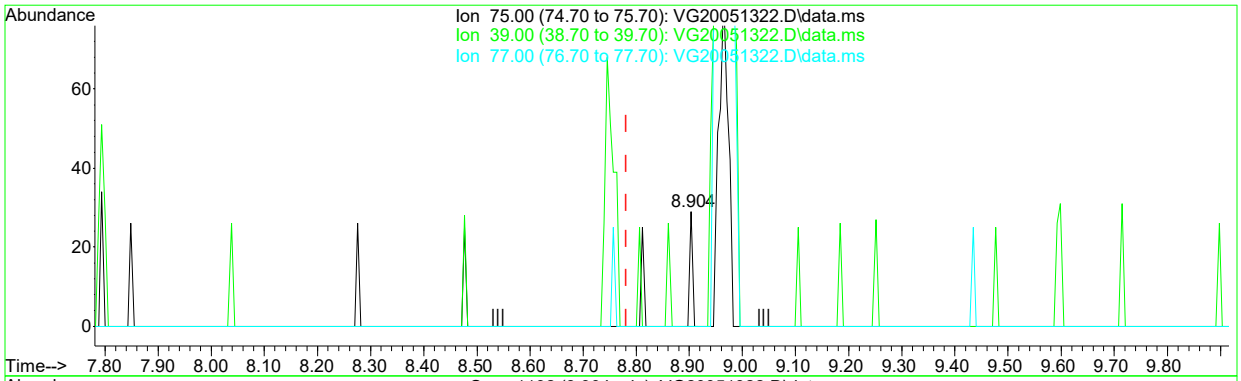
Quant Time: May 14 09:25:55 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

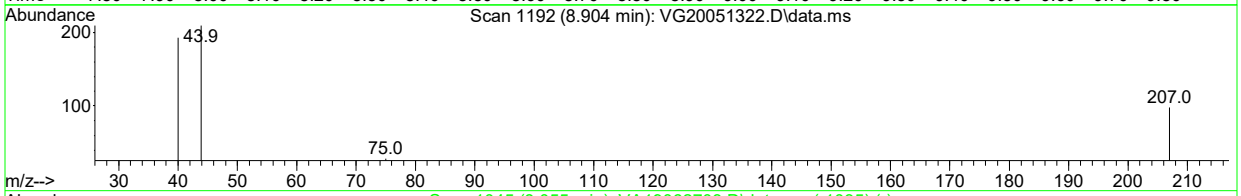


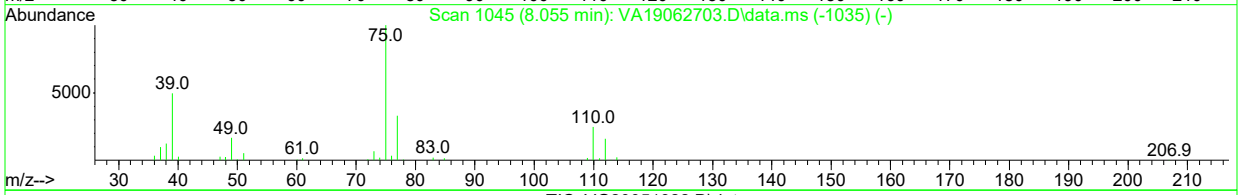
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051322.D
Acq On : 13 May 2020 5:17 pm
Operator : PS
Sample : A0E0347-02
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 14 09:25:55 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







TIC: VG20051322.D\data.ms

(47) c-1,3-Dichloropropene

8.904min (+ 0.123) 0.59 ug/L

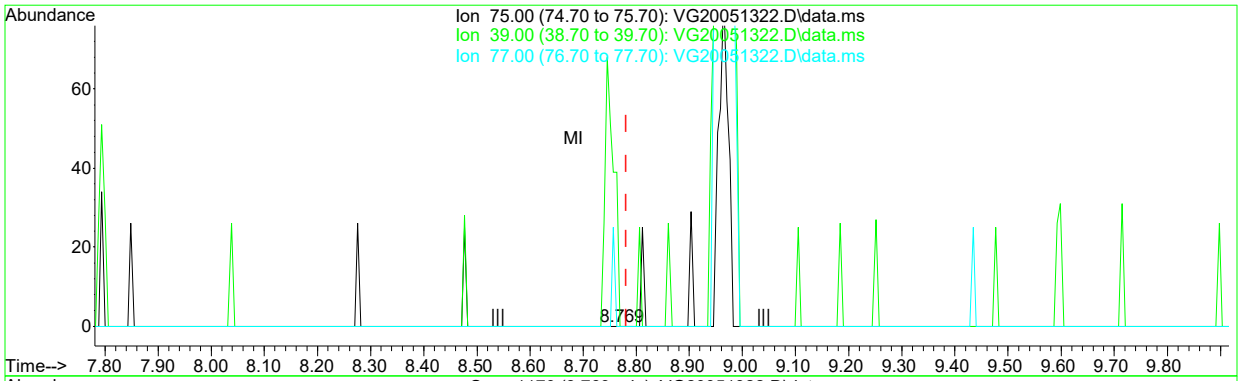
response 11

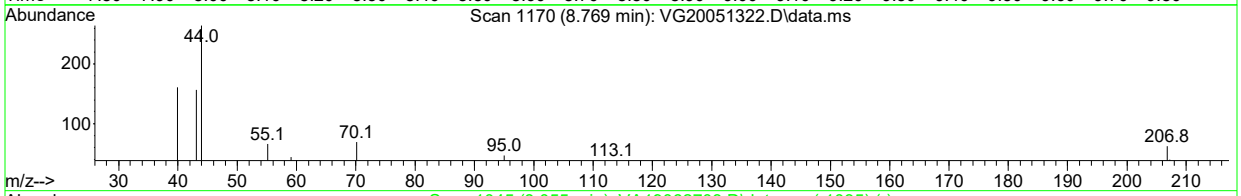
Ion	Exp%	Act%
75.00	100.00	100.00
39.00	50.30	0.00#
77.00	31.90	0.00#
0.00	0.00	0.00

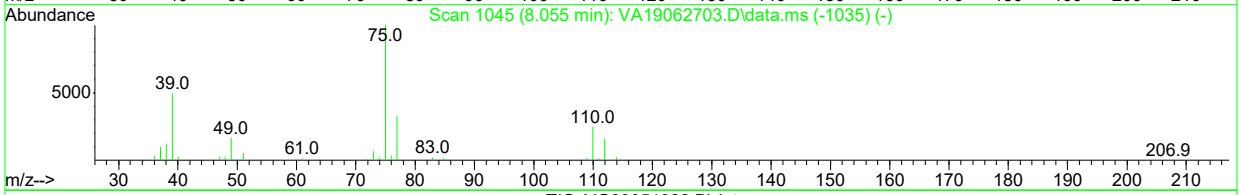
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051322.D
Acq On : 13 May 2020 5:17 pm
Operator : PS
Sample : A0E0347-02
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 14 09:25:55 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







TIC: VG20051322.D\data.ms

(47) c-1,3-Dichloropropene

8.769min (-0.012) 0.00 ug/L m

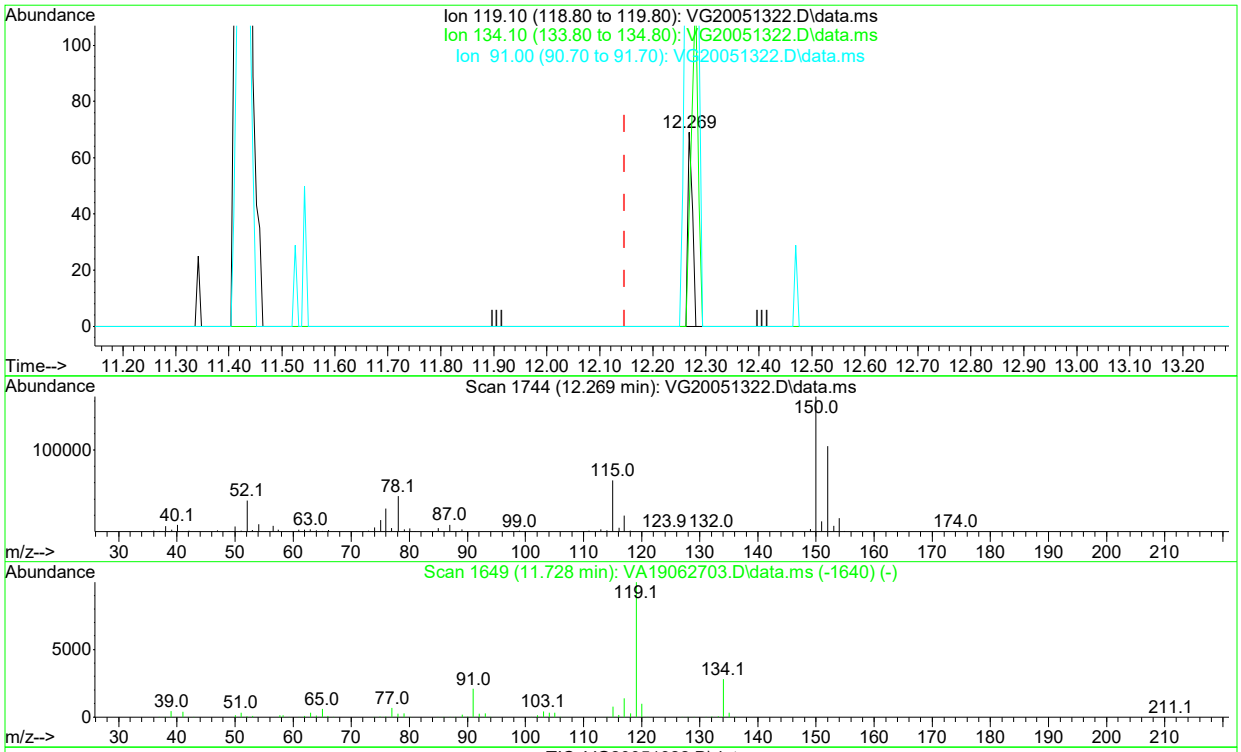
response 0

Ion	Exp%	Act%
75.00	100.00	0.00
39.00	50.30	0.00#
77.00	31.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051322.D
Acq On : 13 May 2020 5:17 pm
Operator : PS
Sample : A0E0347-02
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 14 09:25:55 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



TIC: VG20051322.D\data.ms

(79) 4-Isopropyltoluene

12.269min (+ 0.122) 0.16 ug/L

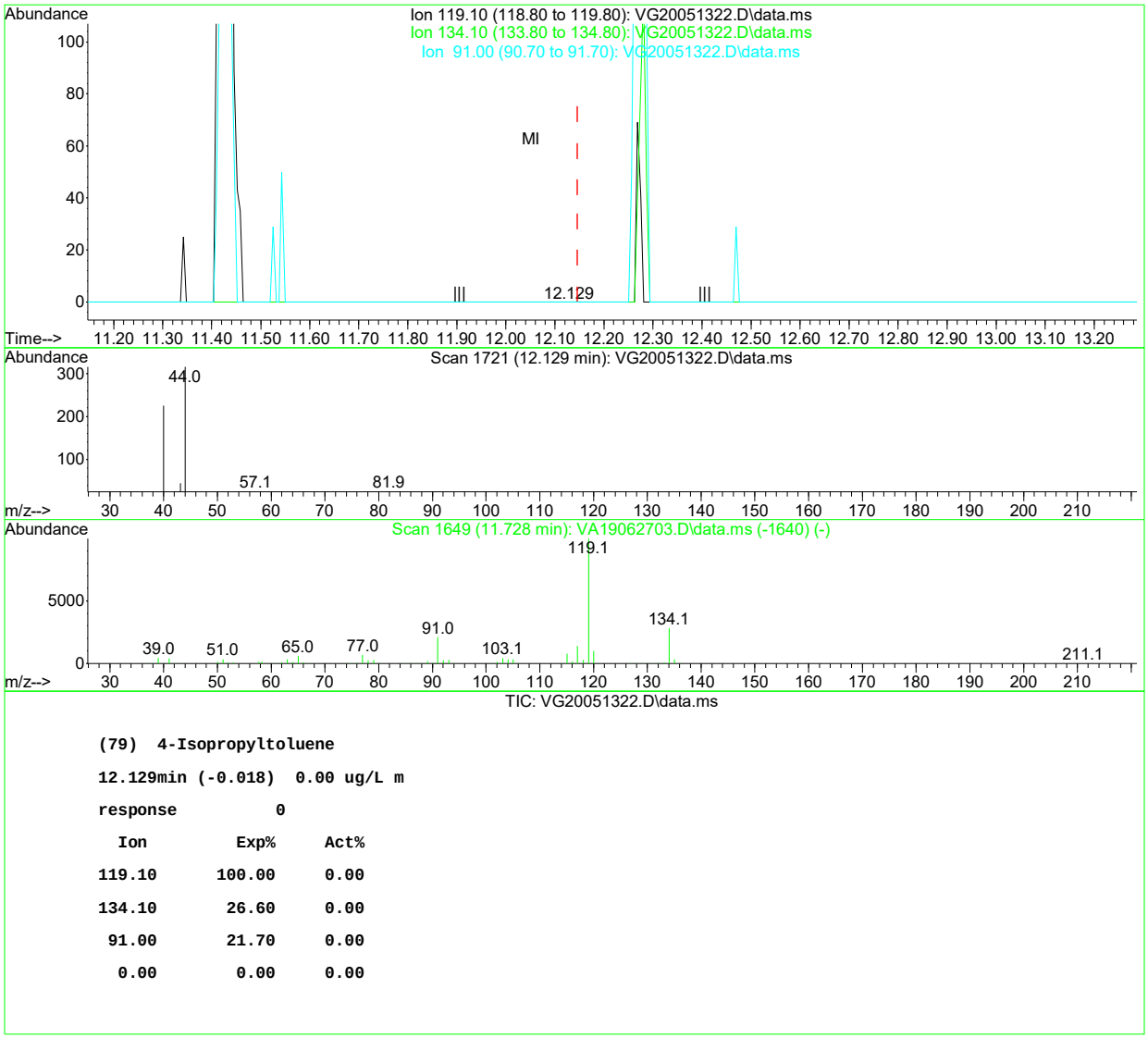
response 40

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	26.60	59.42#
91.00	21.70	353.62#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051322.D
Acq On : 13 May 2020 5:17 pm
Operator : PS
Sample : A0E0347-02
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 14 09:25:55 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



TIC: VG20051322.D\data.ms

(79) 4-Isopropyltoluene

12.129min (-0.018) 0.00 ug/L m

response 0

Ion	Exp%	Act%
119.10	100.00	0.00
134.10	26.60	0.00
91.00	21.70	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051322.D
Acq On : 13 May 2020 5:17 pm
Operator : PS
Sample : A0E0347-02
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 22 Sample Multiplier: 1

05/14/20 tnl

Quant Time: May 14 09:26:55 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

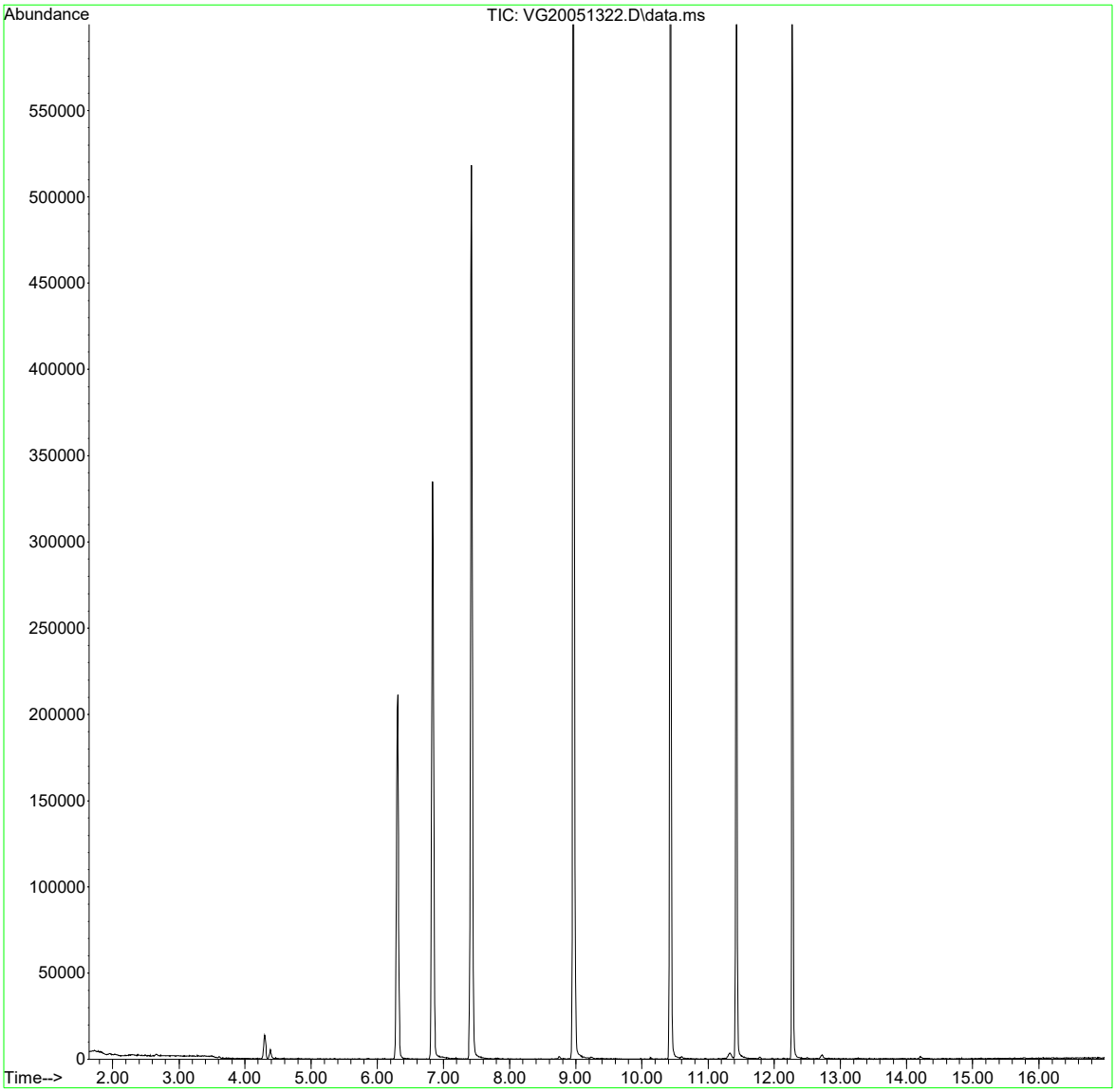
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	129552	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	392597	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	172205	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	144335	56.04	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	456342	54.75	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	536787	50.08	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.427	174	138712	50.21	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.984	50	303	0.09	ug/L	#	55
6) Chloroethane	2.728	64	131	Below Cal		#	47
8) Ethanol	3.606	45	573	8.54	ug/L		90
14) Methylene Chloride	4.301	84	6315	2.14	ug/L		96
15) Acetone	4.380	43	6543	4.92	ug/L		96
19) tert-Butanol (TBA)	4.807	59	170	0.43	ug/L	#	6
61) m,p-Xylenes (2)	10.598	91	616	0.21	ug/L		86
62) o-Xylene	10.952	91	263	0.11	ug/L	#	55
87) Naphthalene	14.195	128	196	0.92	ug/L		79

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E13029\
Data File : VG20051322.D
Acq On : 13 May 2020 5:17 pm
Operator : PS
Sample : A0E0347-02
Misc : 1X 5mL 8260C BTEX+Halo6
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 14 09:26:55 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Selected Volatile Organic Compounds by EPA 5035A/8260C
Calibration Data

Sequence 0D28059 (Cal ID A0D3007) VOA-GCMS7

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0D28059	Instrument:	VOA-GCMS7
Date:	04/28/20 13:33	Calibration:	A0D3007

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0D28059-IBL1	Water	QC	QC			A20D005	
2	0D28059-IBL2	Water	QC	QC			A20D005	
3	0D28059-TUN1	Water	QC	QC			A20D005	
4	0D28059-ICB1	Water	QC	QC			A20D005	
5	0D28059-CAL1	Water	QC	QC			A20D005	A20D369
6	0D28059-CAL2	Water	QC	QC			A20D005	A20D370
7	0D28059-CAL3	Water	QC	QC			A20D005	A20D371
8	0D28059-CAL4	Water	QC	QC			A20D005	A20D372
9	0D28059-CAL5	Water	QC	QC			A20D005	A20D373
10	0D28059-CAL6	Water	QC	QC			A20D005	A20D374
11	0D28059-CAL7	Water	QC	QC			A20D005	A20D375
12	0D28059-CAL8	Water	QC	QC			A20D005	A20D376
13	0D28059-CAL9	Water	QC	QC			A20D005	A20D377
14	0D28059-IBL3	Water	QC	QC			A20D005	
15	0D28059-CALA	Water	QC	QC			A20C050	A20D378
16	0D28059-IBL4	Water	QC	QC			A20D005	
17	0D28059-CALB	Water	QC	QC			A20D005	A20D379
18	0D28059-IBL5	Water	QC	QC			A20D005	
19	0D28059-IBL6	Water	QC	QC			A20D005	
20	0D28059-ICV1	Water	QC	QC			A20D005	A20D380
21	0D28059-IBL7	Water	QC	QC			A20D005	

Data Entered By: [illegible] 5/2/20

Comments: C-13 DCP ↑ MDL MRL to 1/2 ppb

Data Reviewed By: [illegible] 5/7/20

Calibration Status Report VOA-GCMS7

Method Path : C:\msdchem\1\methods\
Method File : VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Wed Apr 29 15:17:10 2020
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	0	50	C:\msdchem\1\data\2020-04\0D28059\VG20042805.D
2	2	0	50	C:\msdchem\1\data\2020-04\0D28059\VG20042806.D
3	3	0	50	C:\msdchem\1\data\2020-04\0D28059\VG20042807.D
4	4	1	50	C:\msdchem\1\data\2020-04\0D28059\VG20042808.D
5	5	2	50	C:\msdchem\1\data\2020-04\0D28059\VG20042809.D
6	6	5	50	C:\msdchem\1\data\2020-04\0D28059\VG20042810.D
7	7	10	50	C:\msdchem\1\data\2020-04\0D28059\VG20042811.D
8	8	20	50	C:\msdchem\1\data\2020-04\0D28059\VG20042812.D
9	9	50	50	C:\msdchem\1\data\2020-04\0D28059\VG20042813.D
10	10	100	50	C:\msdchem\1\data\2020-04\0D28059\VG20042815.D
11	1a	200	50	C:\msdchem\1\data\2020-04\0D28059\VG20042817.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Apr 29 15:17 2020	Apr 29 14:35 2020	28 Apr 2020 3:49 pm
2	2	Apr 29 15:17 2020	Apr 29 14:38 2020	28 Apr 2020 4:16 pm
3	3	Apr 29 15:17 2020	Apr 29 14:40 2020	28 Apr 2020 4:43 pm
4	4	Apr 29 15:17 2020	Apr 29 14:44 2020	28 Apr 2020 5:10 pm
5	5	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 5:37 pm
6	6	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 6:04 pm
7	7	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 6:31 pm
8	8	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 6:58 pm
9	9	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 7:25 pm
10	10	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 8:19 pm
11	1a	Apr 29 15:17 2020	Apr 29 15:14 2020	28 Apr 2020 9:14 pm

4/30/20 JM

VG200429W.M Thu Apr 30 09:39:27 2020

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D28059

Analysis Included
8260D Oxygenates
QC - 624x/8260x All Cpds for Studies

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
0D28059-TUN1	MS Tune	Water		A20D005	4/28/2020 2:55:00PM
0D28059-ICB1	Initial Cal Blank	Water		A20D005	4/28/2020 3:22:00PM
0D28059-CAL1	Cal Standard	Water	A20D369	"	4/28/2020 3:49:00PM
0D28059-CAL2	Cal Standard	Water	A20D370	"	4/28/2020 4:16:00PM
0D28059-CAL3	Cal Standard	Water	A20D371	"	4/28/2020 4:43:00PM
0D28059-CAL4	Cal Standard	Water	A20D372	"	4/28/2020 5:10:00PM
0D28059-CAL5	Cal Standard	Water	A20D373	"	4/28/2020 5:37:00PM
0D28059-CAL6	Cal Standard	Water	A20D374	"	4/28/2020 6:04:00PM
0D28059-CAL7	Cal Standard	Water	A20D375	"	4/28/2020 6:31:00PM
0D28059-CAL8	Cal Standard	Water	A20D376	"	4/28/2020 6:58:00PM
0D28059-CAL9	Cal Standard	Water	A20D377	"	4/28/2020 7:25:00PM
0D28059-CALA	Cal Standard	Water	A20D378	"	4/28/2020 8:19:00PM
0D28059-CALB	Cal Standard	Water	A20D379	"	4/28/2020 9:14:00PM
0D28059-ICV1	Initial Cal Check	Water	A20D380	"	4/28/2020 10:35:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0D3007** Instrument: **VOA-GCMS7**

8260D Oxygenates Sequence: **0D28059** Matrix: **Water**

0D28059-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D28059

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic fit compounds.

Analytes With Quadratic Curve Fits

Qualifier	iMDL	iMRL	Spike Amt	%Difference	OK?	Raise MRL to ?
				———	☐	☐ ———

Analytes listed above have quadratic curve fits. If they are using a weighting otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0D3007** Instrument: **VOA-GCMS7**

QC - 624x/8260x All Cpds for Sequence: **0D28059** Matrix: **Water**

0D28059-ICV1	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042820.D
Acq On : 28 Apr 2020 10:35 pm
Operator : PS
Sample : 0D28059-ICV1
Misc : 1X 5mL 20-40PPB VOCRO (A19L196+A20C151+A19L249)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 30 09:38:33 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

4/30/2020

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene (I)	50.000	50.000	0.0	110	0.00
2		Dichlorodifluoromethane	20.000	18.504	7.5	107	0.00
3	P	Chloromethane	20.000	18.340	8.3	106	0.00
4	C	Vinyl Chloride	20.000	19.493	2.5	110	0.00
5		Bromomethane	20.000	17.822	10.9	95	0.00
6		Chloroethane	20.000	14.757	26.2#	87	-0.02
7		Trichlorofluoromethane	20.000	19.723	1.4	113	-0.02
8		Ethanol	1250.000	1263.279	-1.1	110	0.00
9	C	1,1-Dichloroethene	20.000	17.041	14.8	92	0.00
10		Carbon Disulfide	20.000	17.463	12.7	90	0.00
11		Freon 113	20.000	17.668	11.7	97	-0.02
12		Iodomethane	20.000	21.574	-7.9	151	0.00
13		Acrolein	20.000	20.795	-4.0	112	0.00
14		Methylene Chloride	20.000	19.501	2.5	107	0.00
15		Acetone	40.000	39.624	0.9	109	-0.01
16		t-1,2-Dichloroethene	20.000	19.300	3.5	105	0.00
17		n-Hexane	20.000	18.672	6.6	101	0.00
18		Methyl-tert-butyl-ether	20.000	21.575	-7.9	106	0.00
19		tert-Butanol (TBA)	1250.000	1500.934	-20.1#	114	0.00
20		Diisopropyl ether (DIPE)	5.000	5.695	-13.9	115	0.00
21	P	1,1-Dichloroethane	20.000	20.127	-0.6	107	0.00
22		Acrylonitrile	20.000	20.813	-4.1	104	0.00
23		Vinyl Acetate	20.000	17.408	13.0	116	0.00
24		Ethyl-tert-butyl ether (ETB	5.000	5.744	-14.9	115	0.00
25		c-1,2-Dichloroethene	20.000	20.917	-4.6	107	0.00
26		2,2-Dichloropropane	20.000	18.186	9.1	95	-0.02
27		Bromochloromethane	20.000	18.887	5.6	104	-0.01
28	C	Chloroform	20.000	20.115	-0.6	109	0.00
29		Carbon Tetrachloride	20.000	21.601	-8.0	107	-0.01
30		Tetrahydrofuran	20.000	21.782	-8.9	113	0.00
31		1,1,1-Trichloroethane	20.000	20.202	-1.0	107	0.00
32	S	Dibromofluoromethane (S)	50.000	48.965	2.1	109	0.00
33		1,1-Dichloropropene	20.000	22.133	-10.7	109	-0.01
34		2-Butanone (MEK)	40.000	42.530	-6.3	106	0.00
35		Benzene	20.000	21.063	-5.3	108	-0.01
36		tert-Amyl methyl ether (TAM	5.000	5.177	-3.5	110	0.04
37		1,2-Dichloroethane (EDC)	20.000	20.314	-1.6	109	0.00
38		iso-Butyl Alcohol	500.000	517.932	-3.6	111	-0.01
39	S	1,4-Difluorobenzene (S)	50.000	49.148	1.7	110	0.00
40		Trichloroethene (TCE)	20.000	20.191	-1.0	111	-0.01
41		tert-Amyl ethyl ether (TAEE	5.000	5.754	-15.1	116	0.00
42		Dibromomethane	20.000	19.967	0.2	107	0.01
43	C	1,2-Dichloropropane	20.000	20.841	-4.2	110	-0.01
44		Bromodichloromethane	20.000	21.748	-8.7	110	0.00
45		Chlorobenzene-d5 (I)	50.000	50.000	0.0	110	0.00
46		2-Chloroethyl Vinyl Ether	20.000	19.387	3.1	108	0.00
47		c-1,3-Dichloropropene	20.000	19.401	3.0	108	-0.01
48	S	Toluene-d8 (S)	50.000	49.727	0.5	110	0.00
49	C	Toluene	20.000	20.024	-0.1	110	0.00
50		Tetrachloroethene (PCE)	20.000	21.392	-7.0	111	0.00
51		4-Methyl-2-Pentanone (MIBK)	40.000	41.797	-4.5	105	-0.03

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042820.D
Acq On : 28 Apr 2020 10:35 pm
Operator : PS
Sample : 0D28059-ICV1
Misc : 1X 5mL 20-40PPB VOCRO (A19L196+A20C151+A19L249)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 30 09:38:33 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		t-1,3-Dichloropropene	20.000	19.596	2.0	108	-0.02
53		1,1,2-Trichloroethane	20.000	21.106	-5.5	111	-0.02
54		Dibromochloromethane	20.000	20.363	-1.8	113	0.00
55		1,3-Dichloropropane	20.000	21.675	-8.4	111	0.00
56		1,2-Dibromoethane (EDB)	20.000	22.396	-12.0	110	0.00
57		2-Hexanone	40.000	40.500	-1.3	105	-0.03
58	P	Chlorobenzene	20.000	20.650	-3.2	112	0.00
59	C	Ethylbenzene	20.000	21.775	-8.9	112	-0.01
60		1,1,1,2-Tetrachloroethane	20.000	21.609	-8.0	110	0.00
61		m,p-Xylenes (2)	40.000	42.080	-5.2	112	0.00
62		o-Xylene	20.000	20.873	-4.4	113	0.00
63		Styrene	20.000	21.254	-6.3	113	-0.02
64	P	Bromoform	20.000	19.954	0.2	116	0.00
65		Isopropylbenzene	20.000	21.225	-6.1	114	0.00
66	I	1,4-Dichlorobenzene-d4 (I)	50.000	50.000	0.0	111	0.00
67	S	4-Bromofluorobenzene (S)	50.000	48.872	2.3	111	0.00
68		Bromobenzene	20.000	20.754	-3.8	113	0.00
69		n-Propylbenzene	20.000	21.936	-9.7	113	0.00
70	P	1,1,2,2-Tetrachloroethane	20.000	21.008	-5.0	116	-0.02
71		2-Chlorotoluene	20.000	22.013	-10.1	115	-0.01
72		1,3,5-Trimethylbenzene	20.000	23.221	-16.1	115	0.00
73		1,2,3-Trichloropropane	20.000	21.436	-7.2	114	0.00
74		t-1,4-Dichloro-2-butene	20.000	16.088	19.6	94	0.00
75		4-Chlorotoluene	20.000	22.659	-13.3	113	0.00
76		tert-Butylbenzene	20.000	23.439	-17.2	117	0.00
77		1,2,4-Trimethylbenzene	20.000	22.968	-14.8	114	0.00
78		sec-Butylbenzene	20.000	23.116	-15.6	117	0.00
79		4-Isopropyltoluene	20.000	22.000	-10.0	118	0.00
80		1,3-Dichlorobenzene	20.000	22.912	-14.6	118	0.00
81		1,4-Dichlorobenzene	20.000	20.904	-4.5	118	0.00
82		n-Butylbenzene	20.000	23.263	-16.3	117	0.00
83		1,2-Dichlorobenzene	20.000	23.492	-17.5	119	0.00
84		1,2-Dibromo-3-Chloropropane	20.000	20.694	-3.5	115	0.00
85		Hexachlorobutadiene	20.000	23.931	-19.7	122	0.00
86		1,2,4-Trichlorobenzene	20.000	23.716	-18.6	122	-0.02
87		Naphthalene	20.000	23.159	-15.8	123	-0.01
88		1,2,3-Trichlorobenzene	20.000	25.846	-29.2#	124	0.00

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

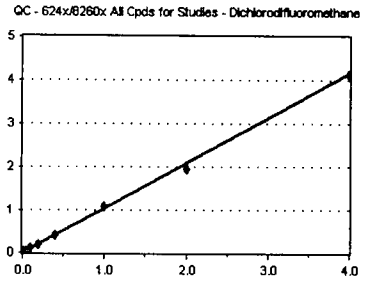
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Dichlorodifluoromethane

Curve Fit: **AVERAGE RF**

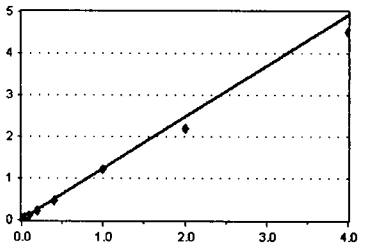


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	304	1.339	1.72
0D28059-CAL2	0.2	527	1.047	1.72
0D28059-CAL3	0.4	1133	1.088	1.72
0D28059-CAL4	1	2775	0.996	1.72
0D28059-CAL5	2	5002	0.982	1.72
0D28059-CAL6	5	13847	0.970	1.72
0D28059-CAL7	10	26239	0.941	1.72
0D28059-CAL8	20	57105	0.983	1.72
0D28059-CAL9	50	168157	1.078	1.72
0D28059-CALA	100	315312	0.975	1.72
0D28059-CALB	200	721756	1.032	1.72

AVE RF **1.039** RF RSD **10.57** AVE RT **1.72**

Chloromethane

Curve Fit: **AVERAGE RF**

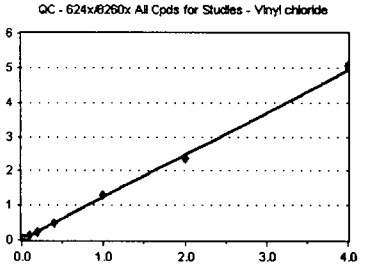


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~466~~	~~2.052~~	~~1.98~~
0D28059-CAL2	0.2	787	1.563	1.98
0D28059-CAL3	0.4	1524	1.464	1.98
0D28059-CAL4	1	3403	1.222	1.98
0D28059-CAL5	2	6051	1.188	1.98
0D28059-CAL6	5	16598	1.162	1.98
0D28059-CAL7	10	31411	1.126	1.98
0D28059-CAL8	20	68020	1.171	1.98
0D28059-CAL9	50	188663	1.210	1.98
0D28059-CALA	100	352785	1.091	1.98
0D28059-CALB	200	787402	1.126	1.98

AVE RF **1.232** RF RSD **12.60** AVE RT **1.98**

Vinyl chloride

Curve Fit: **AVERAGE RF**

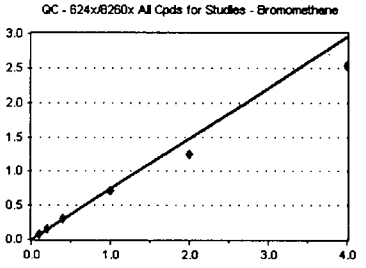


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	315	1.387	2.10
0D28059-CAL2	0.2	651	1.293	2.09
0D28059-CAL3	0.4	1260	1.211	2.10
0D28059-CAL4	1	3373	1.211	2.10
0D28059-CAL5	2	5945	1.168	2.10
0D28059-CAL6	5	16642	1.165	2.10
0D28059-CAL7	10	32203	1.155	2.10
0D28059-CAL8	20	69809	1.202	2.10
0D28059-CAL9	50	203097	1.302	2.10
0D28059-CALA	100	384111	1.188	2.10
0D28059-CALB	200	883409	1.263	2.09

AVE RF **1.231** RF RSD **5.86** AVE RT **2.10**

Bromomethane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~385~~	~~1.696~~	~~2.53~~
~~0D28059-CAL2~~	~~0.2~~	~~645~~	~~1.281~~	~~2.53~~
~~0D28059-CAL3~~	~~0.4~~	~~1137~~	~~1.092~~	~~2.53~~
~~0D28059-CAL4~~	~~1~~	~~2726~~	~~0.979~~	~~2.53~~
~~0D28059-CAL5~~	~~2~~	~~4637~~	~~0.911~~	~~2.53~~
0D28059-CAL6	5	12504	0.876	2.53
0D28059-CAL7	10	22785	0.817	2.53
0D28059-CAL8	20	44234	0.762	2.53
0D28059-CAL9	50	110130	0.706	2.53
0D28059-CALA	100	201722	0.624	2.53
0D28059-CALB	200	441017	0.630	2.53

AVE RF **0.736** RF RSD **13.77** AVE RT **2.53**

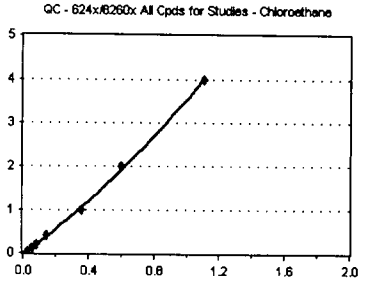
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Chloroethane

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

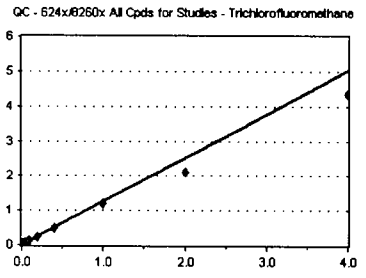


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~290~~	~~1.277~~	~~2.72~~
~~0D28059-CAL2~~	~~0.2~~	~~472~~	~~0.938~~	~~2.72~~
~~0D28059-CAL3~~	~~0.4~~	~~872~~	~~0.838~~	~~2.71~~
~~0D28059-CAL4~~	~~1~~	~~1901~~	~~0.683~~	~~2.72~~
0D28059-CAL5	2	3098	0.608	2.72
0D28059-CAL6	5	8320	0.583	2.71
0D28059-CAL7	10	11336	0.407	2.71
0D28059-CAL8	20	21007	0.362	2.70
0D28059-CAL9	50	56347	0.361	2.71
0D28059-CALA	100	97391	0.301	2.70
0D28059-CALB	200	193450	0.277	2.70

AVE RF **0.414** RF RSD **31.70** AVE RT **2.71**

Trichlorofluoromethane

Curve Fit: **AVERAGE RF**

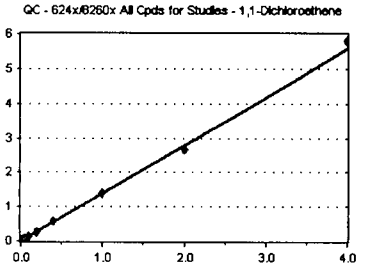


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	352	1.550	2.92
0D28059-CAL2	0.2	715	1.420	2.91
0D28059-CAL3	0.4	1409	1.354	2.91
0D28059-CAL4	1	3593	1.290	2.91
0D28059-CAL5	2	6259	1.229	2.91
0D28059-CAL6	5	17523	1.227	2.91
0D28059-CAL7	10	32312	1.159	2.91
0D28059-CAL8	20	70026	1.206	2.90
0D28059-CAL9	50	188165	1.207	2.91
0D28059-CALA	100	341980	1.058	2.90
0D28059-CALB	200	760605	1.087	2.89

AVE RF **1.253** RF RSD **11.51** AVE RT **2.91**

1,1-Dichloroethene

Curve Fit: **AVERAGE RF**

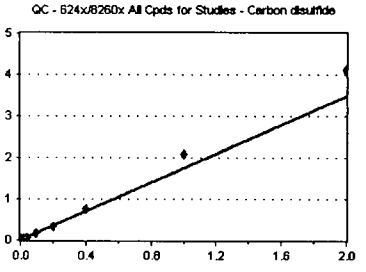


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	356	1.568	3.56
0D28059-CAL2	0.2	711	1.412	3.56
0D28059-CAL3	0.4	1450	1.393	3.57
0D28059-CAL4	1	3806	1.367	3.56
0D28059-CAL5	2	6691	1.314	3.57
0D28059-CAL6	5	18814	1.317	3.56
0D28059-CAL7	10	37076	1.330	3.56
0D28059-CAL8	20	82498	1.421	3.56
0D28059-CAL9	50	219956	1.410	3.56
0D28059-CALA	100	431318	1.334	3.56
0D28059-CALB	200	1013280	1.449	3.56

AVE RF **1.392** RF RSD **5.34** AVE RT **3.56**

Carbon disulfide

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~488~~	~~2.149~~	~~3.57~~
0D28059-CAL2	0.2	850	1.688	3.56
0D28059-CAL3	0.4	1760	1.691	3.57
0D28059-CAL4	1	4285	1.539	3.57
0D28059-CAL5	2	7686	1.509	3.57
0D28059-CAL6	5	22924	1.605	3.56
0D28059-CAL7	10	45558	1.634	3.56
0D28059-CAL8	20	107913	1.858	3.56
0D28059-CAL9	50	325731	2.089	3.56
0D28059-CALA	100	664668	2.056	3.56
~~0D28059-CALB~~	~~200~~	~~1647933~~	~~2.356~~	~~3.56~~

AVE RF **1.741** RF RSD **12.24** AVE RT **3.57**

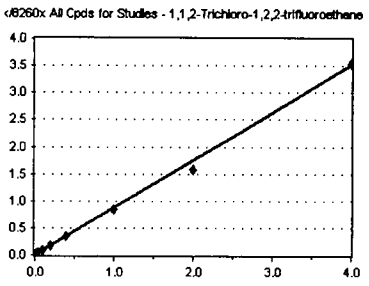
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,1,2-Trichloro-1,2,2-trifluoroetha

Curve Fit: **AVERAGE RF**

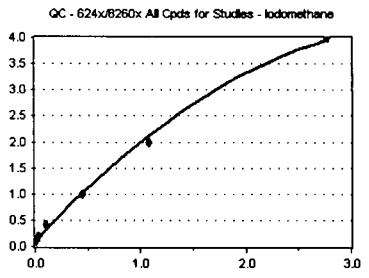


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	229	1.009	3.66
0D28059-CAL2	0.2	435	0.864	3.65
0D28059-CAL3	0.4	969	0.931	3.64
0D28059-CAL4	1	2465	0.885	3.64
0D28059-CAL5	2	4428	0.870	3.64
0D28059-CAL6	5	12599	0.882	3.64
0D28059-CAL7	10	23367	0.838	3.64
0D28059-CAL8	20	50999	0.878	3.64
0D28059-CAL9	50	132348	0.849	3.64
0D28059-CALA	100	253439	0.784	3.64
0D28059-CALB	200	619841	0.886	3.63

AVE RF **0.880** RF RSD **6.38** AVE RT **3.64**

Iodomethane

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

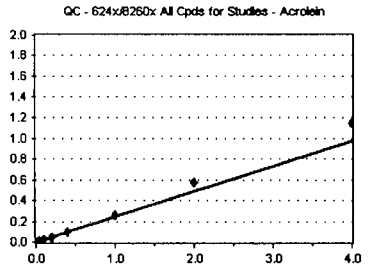


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL4~~	~~1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL5~~	~~2~~	~~271~~	~~5.322~~	~~3.74~~
0D28059-CAL6	5	1498	0.105	3.73
0D28059-CAL7	10	4602	0.165	3.73
0D28059-CAL8	20	15447	0.266	3.73
0D28059-CAL9	50	70400	0.451	3.73
0D28059-CALA	100	174901	0.541	3.72
0D28059-CALB	200	484444	0.693	3.72

AVE RF **0.370** RF RSD **61.96** AVE RT **3.73**

Acrolein

Curve Fit: **AVERAGE RF**

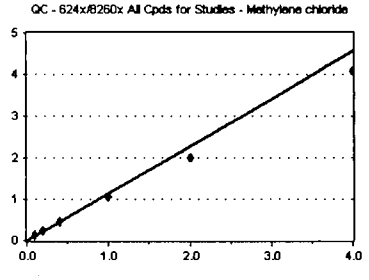


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~172~~	~~0.165~~	~~4.01~~
0D28059-CAL4	1	625	0.224	4.01
0D28059-CAL5	2	1033	0.203	4.01
0D28059-CAL6	5	3041	0.213	4.01
0D28059-CAL7	10	6310	0.226	4.01
0D28059-CAL8	20	14426	0.248	4.01
0D28059-CAL9	50	40730	0.261	4.01
0D28059-CALA	100	92724	0.287	4.01
0D28059-CALB	200	200485	0.287	4.01

AVE RF **0.244** RF RSD **13.26** AVE RT **4.01**

Methylene chloride

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~3714~~	~~16.357~~	~~4.30~~
~~0D28059-CAL2~~	~~0.2~~	~~5057~~	~~10.045~~	~~4.30~~
~~0D28059-CAL3~~	~~0.4~~	~~4387~~	~~4.215~~	~~4.30~~
~~0D28059-CAL4~~	~~1~~	~~8586~~	~~3.083~~	~~4.30~~
~~0D28059-CAL5~~	~~2~~	~~10556~~	~~2.073~~	~~4.30~~
0D28059-CAL6	5	19953	1.397	4.30
0D28059-CAL7	10	33896	1.216	4.30
0D28059-CAL8	20	66422	1.144	4.30
0D28059-CAL9	50	166231	1.066	4.30
0D28059-CALA	100	321685	0.995	4.30
0D28059-CALB	200	711544	1.017	4.30

AVE RF **1.139** RF RSD **13.22** AVE RT **4.30**

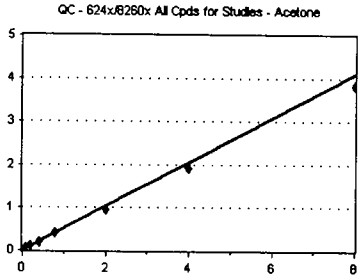
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Acetone

Curve Fit: **AVERAGE RF**

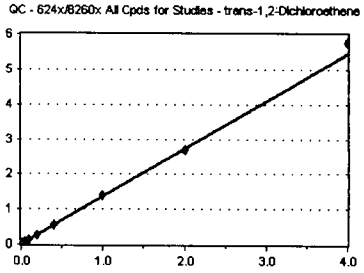


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.2~~	~~1500~~	~~3.303~~	~~4.39~~
~~0D28059-CAL2~~	~~0.4~~	~~1950~~	~~1.937~~	~~4.39~~
~~0D28059-CAL3~~	~~0.8~~	~~2217~~	~~1.065~~	~~4.39~~
~~0D28059-CAL4~~	~~2~~	~~3885~~	~~0.698~~	~~4.39~~
0D28059-CAL5	4	6410	0.629	4.38
0D28059-CAL6	10	14762	0.517	4.38
0D28059-CAL7	20	28163	0.505	4.38
0D28059-CAL8	40	59628	0.513	4.38
0D28059-CAL9	100	147679	0.474	4.37
0D28059-CALA	200	308105	0.476	4.37
0D28059-CALB	400	670089	0.479	4.38

AVE RF **0.513** RF RSD **10.58** AVE RT **4.38**

trans-1,2-Dichloroethene

Curve Fit: **AVERAGE RF**

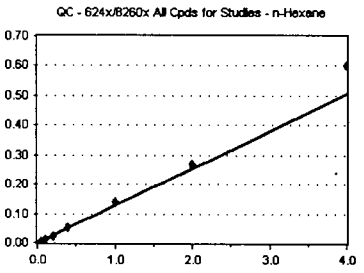


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	387	1.704	4.49
0D28059-CAL2	0.2	652	1.295	4.49
0D28059-CAL3	0.4	1351	1.298	4.49
0D28059-CAL4	1	3488	1.253	4.49
0D28059-CAL5	2	6491	1.275	4.48
0D28059-CAL6	5	18330	1.284	4.48
0D28059-CAL7	10	36259	1.300	4.48
0D28059-CAL8	20	80067	1.379	4.48
0D28059-CAL9	50	216769	1.390	4.48
0D28059-CALA	100	433938	1.342	4.48
0D28059-CALB	200	1007829	1.441	4.48

AVE RF **1.360** RF RSD **9.39** AVE RT **4.49**

n-Hexane

Curve Fit: **AVERAGE RF**

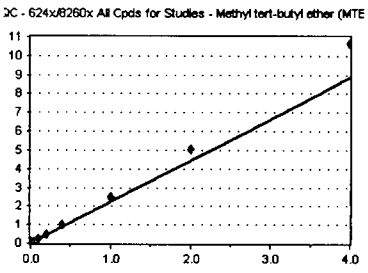


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~27~~	~~5.363~~	~~4.59~~
~~0D28059-CAL3~~	~~0.4~~	~~75~~	~~7.205~~	~~4.58~~
~~0D28059-CAL4~~	~~1~~	~~247~~	~~8.870~~	~~4.58~~
0D28059-CAL5	2	496	9.741	4.59
0D28059-CAL6	5	1711	0.120	4.59
0D28059-CAL7	10	3233	0.116	4.58
0D28059-CAL8	20	7464	0.129	4.58
0D28059-CAL9	50	21842	0.140	4.58
0D28059-CALA	100	43493	0.135	4.58
0D28059-CALB	200	105147	0.150	4.58

AVE RF **0.127** RF RSD **13.76** AVE RT **4.58**

Methyl tert-butyl ether (MTBE)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~537~~	~~2.365~~	~~4.64~~
0D28059-CAL2	0.2	917	1.822	4.64
0D28059-CAL3	0.4	2007	1.928	4.65
0D28059-CAL4	1	5292	1.900	4.64
0D28059-CAL5	2	9858	1.936	4.64
0D28059-CAL6	5	30062	2.105	4.64
0D28059-CAL7	10	62513	2.242	4.64
0D28059-CAL8	20	143781	2.476	4.64
0D28059-CAL9	50	389222	2.496	4.64
0D28059-CALA	100	812679	2.513	4.64
0D28059-CALB	200	1858846	2.657	4.64

AVE RF **2.208** RF RSD **13.99** AVE RT **4.64**

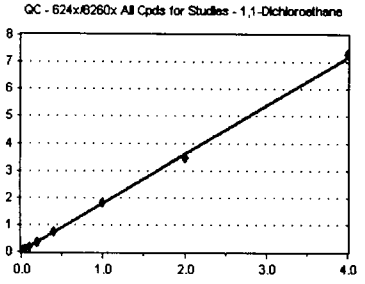
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,1-Dichloroethane

Curve Fit: **AVERAGE RF**

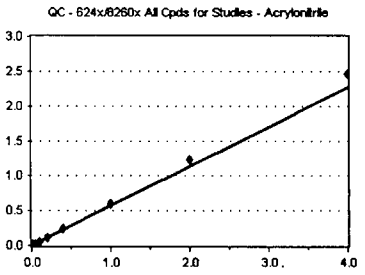


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	440	1.938	5.20
0D28059-CAL2	0.2	879	1.746	5.19
0D28059-CAL3	0.4	1856	1.783	5.19
0D28059-CAL4	1	5006	1.798	5.19
0D28059-CAL5	2	8898	1.748	5.19
0D28059-CAL6	5	24878	1.742	5.19
0D28059-CAL7	10	49091	1.761	5.19
0D28059-CAL8	20	107573	1.853	5.19
0D28059-CAL9	50	283431	1.818	5.19
0D28059-CALA	100	559811	1.731	5.19
0D28059-CALB	200	1278947	1.828	5.19

AVE RF **1.795** RF RSD **3.44** AVE RT **5.19**

Acrylonitrile

Curve Fit: **AVERAGE RF**

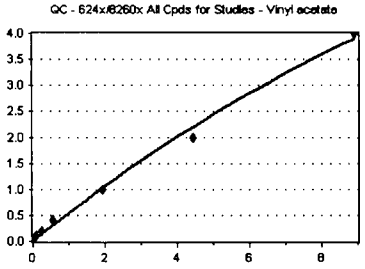


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
0D28059-CAL4	1	1352	0.485	5.28
0D28059-CAL5	2	2442	0.480	5.27
0D28059-CAL6	5	7632	0.534	5.26
0D28059-CAL7	10	16003	0.574	5.26
0D28059-CAL8	20	36134	0.622	5.26
0D28059-CAL9	50	93340	0.599	5.26
0D28059-CALA	100	199568	0.617	5.26
0D28059-CALB	200	430086	0.615	5.26

AVE RF **0.566** RF RSD **10.40** AVE RT **5.26**

Vinyl acetate

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

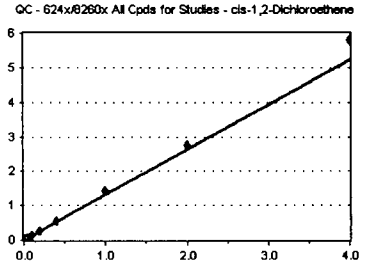


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
0D28059-CAL4	1	2053	0.737	5.52
0D28059-CAL5	2	4151	0.815	5.51
0D28059-CAL6	5	14594	1.022	5.51
0D28059-CAL7	10	33186	1.190	5.51
0D28059-CAL8	20	83858	1.444	5.50
0D28059-CAL9	50	304318	1.951	5.50
0D28059-CALA	100	716527	2.216	5.50
0D28059-CALB	200	1558199	2.228	5.50

AVE RF **1.450** RF RSD **42.06** AVE RT **5.51**

cis-1,2-Dichloroethene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	306	1.348	5.80
0D28059-CAL2	0.2	606	1.204	5.81
0D28059-CAL3	0.4	1211	1.163	5.80
0D28059-CAL4	1	3375	1.212	5.80
0D28059-CAL5	2	6218	1.221	5.80
0D28059-CAL6	5	18232	1.277	5.80
0D28059-CAL7	10	36783	1.319	5.80
0D28059-CAL8	20	81309	1.400	5.80
0D28059-CAL9	50	221030	1.417	5.79
0D28059-CALA	100	444480	1.375	5.80
0D28059-CALB	200	1012684	1.448	5.79

AVE RF **1.308** RF RSD **7.48** AVE RT **5.80**

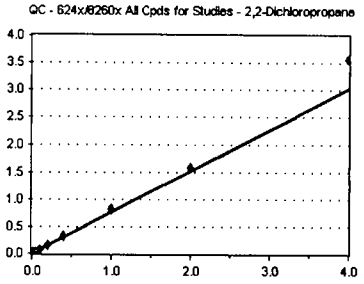
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

2,2-Dichloropropane

Curve Fit: **AVERAGE RF**

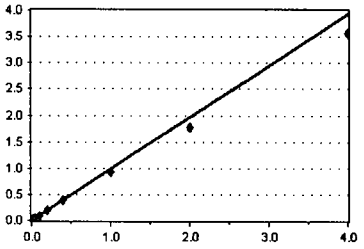


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	151	0.665	5.92
0D28059-CAL2	0.2	410	0.814	5.91
0D28059-CAL3	0.4	753	0.723	5.90
0D28059-CAL4	1	1967	0.706	5.90
0D28059-CAL5	2	3460	0.680	5.91
0D28059-CAL6	5	10290	0.721	5.90
0D28059-CAL7	10	19999	0.717	5.91
0D28059-CAL8	20	46097	0.794	5.90
0D28059-CAL9	50	127143	0.815	5.91
0D28059-CALA	100	256825	0.794	5.90
0D28059-CALB	200	622935	0.891	5.90

AVE RF **0.756** RF RSD **9.19** AVE RT **5.91**

Bromochloromethane

Curve Fit: **AVERAGE RF**

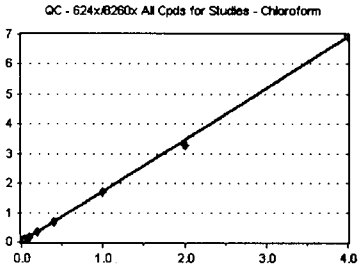


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	271	1.194	6.02
0D28059-CAL2	0.2	526	1.045	6.01
0D28059-CAL3	0.4	1078	1.036	6.01
0D28059-CAL4	1	2726	0.979	6.01
0D28059-CAL5	2	4897	0.962	6.01
0D28059-CAL6	5	13719	0.961	6.01
0D28059-CAL7	10	26657	0.956	6.01
0D28059-CAL8	20	56728	0.977	6.01
0D28059-CAL9	50	145300	0.932	6.01
0D28059-CALA	100	287820	0.890	6.01
0D28059-CALB	200	622772	0.890	6.01

AVE RF **0.984** RF RSD **8.65** AVE RT **6.01**

Chloroform

Curve Fit: **AVERAGE RF**

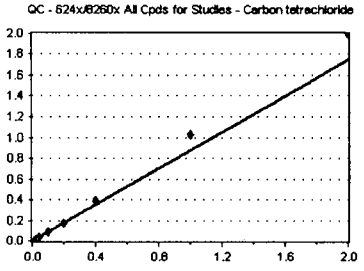


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	470	2.070	6.11
0D28059-CAL2	0.2	849	1.686	6.11
0D28059-CAL3	0.4	1724	1.656	6.11
0D28059-CAL4	1	4654	1.671	6.11
0D28059-CAL5	2	8523	1.674	6.11
0D28059-CAL6	5	24289	1.701	6.11
0D28059-CAL7	10	47467	1.702	6.11
0D28059-CAL8	20	101369	1.746	6.11
0D28059-CAL9	50	267420	1.715	6.11
0D28059-CALA	100	532744	1.648	6.11
0D28059-CALB	200	1216725	1.739	6.11

AVE RF **1.728** RF RSD **6.81** AVE RT **6.11**

Carbon tetrachloride

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~41~~	~~0.181~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~279~~	~~0.554~~	~~6.23~~
~~0D28059-CAL3~~	~~0.4~~	~~619~~	~~0.595~~	~~6.24~~
0D28059-CAL4	1	1929	0.693	6.23
0D28059-CAL5	2	3781	0.743	6.23
0D28059-CAL6	5	11732	0.821	6.23
0D28059-CAL7	10	24278	0.871	6.23
0D28059-CAL8	20	56466	0.972	6.23
0D28059-CAL9	50	159439	1.022	6.23
0D28059-CALA	100	323005	0.999	6.23
~~0D28059-CALB~~	~~200~~	~~809357~~	~~1.157~~	~~6.23~~

AVE RF **0.874** RF RSD **14.78** AVE RT **6.23**

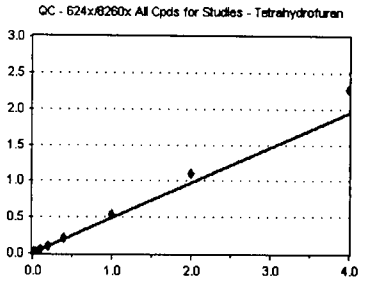
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Tetrahydrofuran

Curve Fit: **AVERAGE RF**

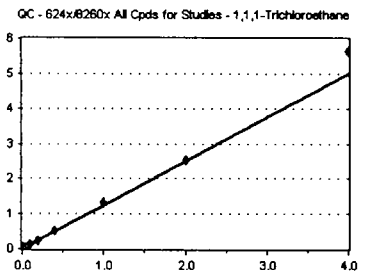


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~176~~	~~0.350~~	~~6.30~~
~~0D28059-CAL3~~	~~0.4~~	~~390~~	~~0.375~~	~~6.30~~
0D28059-CAL4	1	1160	0.417	6.29
0D28059-CAL5	2	2041	0.401	6.29
0D28059-CAL6	5	6128	0.429	6.28
0D28059-CAL7	10	13399	0.481	6.28
0D28059-CAL8	20	29915	0.515	6.28
0D28059-CAL9	50	82643	0.530	6.28
0D28059-CALA	100	179471	0.555	6.28
0D28059-CALB	200	398049	0.569	6.28

AVE RF **0.487** RF RSD **13.39** AVE RT **6.28**

1,1,1-Trichloroethane

Curve Fit: **AVERAGE RF**

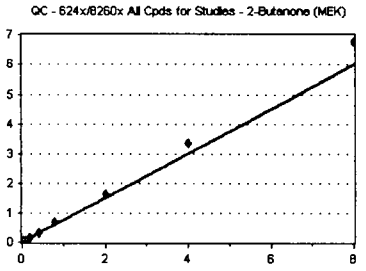


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	352	1.550	6.32
0D28059-CAL2	0.2	542	1.077	6.31
0D28059-CAL3	0.4	1239	1.190	6.31
0D28059-CAL4	1	3173	1.139	6.31
0D28059-CAL5	2	5630	1.106	6.31
0D28059-CAL6	5	17241	1.207	6.31
0D28059-CAL7	10	33372	1.197	6.31
0D28059-CAL8	20	75474	1.300	6.31
0D28059-CAL9	50	205435	1.317	6.31
0D28059-CALA	100	407916	1.262	6.31
0D28059-CALB	200	987730	1.412	6.31

AVE RF **1.251** RF RSD **11.16** AVE RT **6.31**

2-Butanone (MEK)

Curve Fit: **AVERAGE RF**

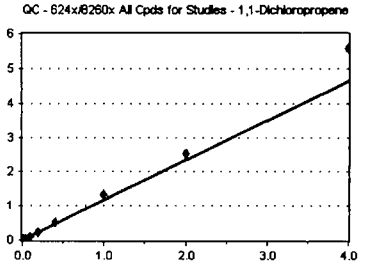


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.8~~	~~1046~~	~~0.502~~	~~6.49~~
0D28059-CAL4	2	3339	0.600	6.47
0D28059-CAL5	4	6424	0.631	6.46
0D28059-CAL6	10	19945	0.698	6.45
0D28059-CAL7	20	41809	0.750	6.45
0D28059-CAL8	40	96125	0.828	6.45
0D28059-CAL9	100	254544	0.816	6.45
0D28059-CALA	200	545218	0.843	6.45
0D28059-CALB	400	1181311	0.844	6.45

AVE RF **0.751** RF RSD **13.07** AVE RT **6.45**

1,1-Dichloropropene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	257	1.132	6.47
0D28059-CAL2	0.2	553	1.098	6.45
0D28059-CAL3	0.4	1041	1.000	6.46
0D28059-CAL4	1	2829	1.016	6.45
0D28059-CAL5	2	4996	0.981	6.46
0D28059-CAL6	5	16001	1.120	6.45
0D28059-CAL7	10	32463	1.164	6.45
0D28059-CAL8	20	75641	1.303	6.45
0D28059-CAL9	50	206166	1.322	6.45
0D28059-CALA	100	407326	1.260	6.45
0D28059-CALB	200	975429	1.394	6.45

AVE RF **1.163** RF RSD **12.04** AVE RT **6.46**

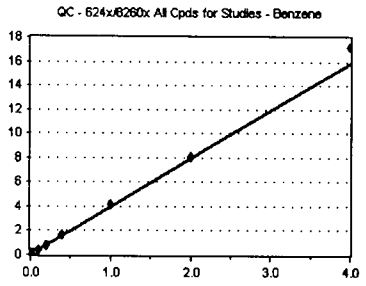
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Benzene

Curve Fit: **AVERAGE RF**

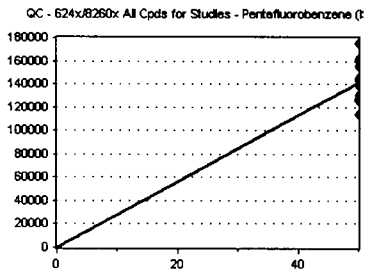


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	1003	4.417	6.73
0D28059-CAL2	0.2	1916	3.806	6.73
0D28059-CAL3	0.4	3614	3.472	6.73
0D28059-CAL4	1	10086	3.622	6.73
0D28059-CAL5	2	18474	3.628	6.73
0D28059-CAL6	5	55897	3.914	6.73
0D28059-CAL7	10	111329	3.992	6.73
0D28059-CAL8	20	246984	4.253	6.73
0D28059-CAL9	50	657475	4.216	6.73
0D28059-CALA	100	1302053	4.027	6.72
0D28059-CALB	200	3008884	4.301	6.72

AVE RF **3.968** RF RSD **7.85** AVE RT **6.73**

Pentafluorobenzene (ISTD)

Curve Fit: **AVERAGE RF**

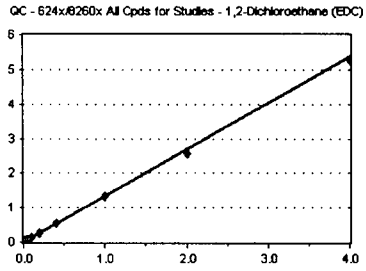


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	113531	2270.620	6.84
0D28059-CAL2	50	125854	2517.080	6.84
0D28059-CAL3	50	130111	2602.220	6.84
0D28059-CAL4	50	139239	2784.780	6.84
0D28059-CAL5	50	127296	2545.920	6.84
0D28059-CAL6	50	142812	2856.240	6.84
0D28059-CAL7	50	139423	2788.460	6.84
0D28059-CAL8	50	145168	2903.360	6.84
0D28059-CAL9	50	155943	3118.860	6.84
0D28059-CALA	50	161668	3233.360	6.83
0D28059-CALB	50	174876	3497.520	6.84

AVE RF **2828.947** RF RSD **12.47** AVE RT **6.84**

1,2-Dichloroethane (EDC)

Curve Fit: **AVERAGE RF**

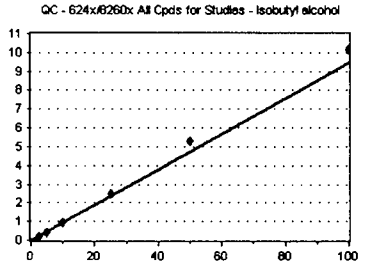


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	343	1.511	6.96
0D28059-CAL2	0.2	715	1.420	6.97
0D28059-CAL3	0.4	1349	1.296	6.96
0D28059-CAL4	1	3642	1.308	6.96
0D28059-CAL5	2	6699	1.316	6.96
0D28059-CAL6	5	19078	1.336	6.96
0D28059-CAL7	10	37364	1.340	6.96
0D28059-CAL8	20	80002	1.378	6.96
0D28059-CAL9	50	207503	1.331	6.95
0D28059-CALA	100	415815	1.286	6.95
0D28059-CALB	200	923686	1.320	6.95

AVE RF **1.349** RF RSD **4.86** AVE RT **6.96**

Isobutyl alcohol

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~2.5~~	~~384~~	~~6.765~~	~~7.03~~
~~0D28059-CAL2~~	~~5~~	~~824~~	~~6.547~~	~~7.04~~
~~0D28059-CAL3~~	~~10~~	~~1632~~	~~6.272~~	~~7.03~~
~~0D28059-CAL4~~	~~25~~	~~4875~~	~~7.002~~	~~7.02~~
~~0D28059-CAL5~~	~~50~~	~~9183~~	~~7.214~~	~~7.02~~
0D28059-CAL6	125	27429	7.683	7.01
0D28059-CAL7	250	59903	8.593	7.02
0D28059-CAL8	500	141129	9.722	7.01
0D28059-CAL9	1250	390505	0.100	7.01
0D28059-CALA	2500	851953	0.105	7.01
0D28059-CALB	5000	1783101	0.102	7.02

AVE RF **9.458** RF RSD **11.58** AVE RT **7.02**

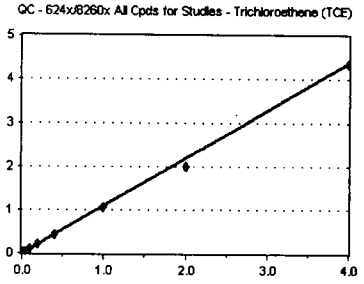
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Trichloroethene (TCE)

Curve Fit: **AVERAGE RF**

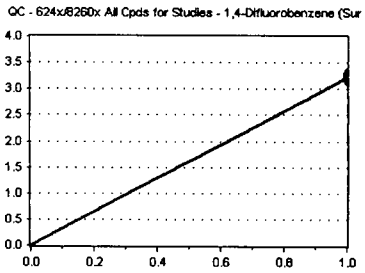


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	318	1.400	7.39
0D28059-CAL2	0.2	572	1.136	7.39
0D28059-CAL3	0.4	1209	1.162	7.39
0D28059-CAL4	1	2892	1.039	7.38
0D28059-CAL5	2	5135	1.008	7.38
0D28059-CAL6	5	15099	1.057	7.38
0D28059-CAL7	10	28530	1.023	7.38
0D28059-CAL8	20	63379	1.091	7.38
0D28059-CAL9	50	165009	1.058	7.38
0D28059-CALA	100	321823	0.995	7.38
0D28059-CALB	200	762043	1.089	7.38

AVE RF **1.096** RF RSD **10.32** AVE RT **7.38**

1,4-Difluorobenzene (Surr)

Curve Fit: **AVERAGE RF**

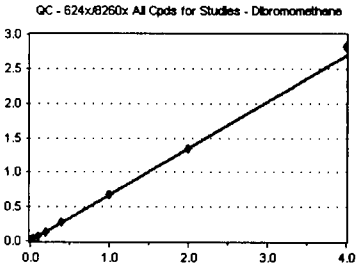


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	368655	3.247	7.42
0D28059-CAL2	50	415901	3.305	7.42
0D28059-CAL3	50	427126	3.283	7.42
0D28059-CAL4	50	455553	3.272	7.42
0D28059-CAL5	50	410702	3.226	7.42
0D28059-CAL6	50	454891	3.185	7.42
0D28059-CAL7	50	439924	3.155	7.42
0D28059-CAL8	50	457229	3.150	7.42
0D28059-CAL9	50	494278	3.170	7.42
0D28059-CALA	50	510262	3.156	7.42
0D28059-CALB	50	566135	3.237	7.42

AVE RF **3.217** RF RSD **1.75** AVE RT **7.42**

Dibromomethane

Curve Fit: **AVERAGE RF**

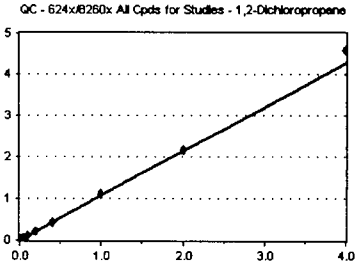


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	185	0.815	7.84
0D28059-CAL2	0.2	297	0.590	7.86
0D28059-CAL3	0.4	686	0.659	7.86
0D28059-CAL4	1	1817	0.652	7.86
0D28059-CAL5	2	3205	0.629	7.86
0D28059-CAL6	5	9153	0.641	7.86
0D28059-CAL7	10	18454	0.662	7.86
0D28059-CAL8	20	39871	0.687	7.86
0D28059-CAL9	50	106537	0.683	7.86
0D28059-CALA	100	217366	0.672	7.85
0D28059-CALB	200	492139	0.704	7.85

AVE RF **0.672** RF RSD **8.40** AVE RT **7.85**

1,2-Dichloropropane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	244	1.075	7.98
0D28059-CAL2	0.2	510	1.013	7.97
0D28059-CAL3	0.4	1082	1.039	7.97
0D28059-CAL4	1	2853	1.024	7.97
0D28059-CAL5	2	5295	1.040	7.97
0D28059-CAL6	5	14723	1.031	7.97
0D28059-CAL7	10	29839	1.070	7.97
0D28059-CAL8	20	64553	1.112	7.97
0D28059-CAL9	50	174417	1.118	7.97
0D28059-CALA	100	350668	1.085	7.97
0D28059-CALB	200	803265	1.148	7.97

AVE RF **1.069** RF RSD **4.09** AVE RT **7.97**

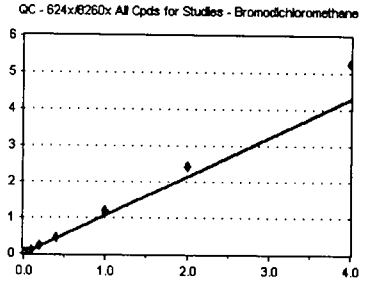
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Bromodichloromethane

Curve Fit: **AVERAGE RF**

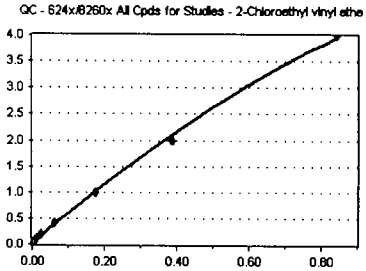


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	206	0.907	8.05
0D28059-CAL2	0.2	496	0.985	8.05
0D28059-CAL3	0.4	1003	0.964	8.05
0D28059-CAL4	1	2789	1.002	8.06
0D28059-CAL5	2	4745	0.932	8.05
0D28059-CAL6	5	14828	1.038	8.05
0D28059-CAL7	10	29724	1.066	8.05
0D28059-CAL8	20	68001	1.171	8.05
0D28059-CAL9	50	188929	1.212	8.05
0D28059-CALA	100	393467	1.217	8.04
0D28059-CALB	200	918596	1.313	8.04

AVE RF **1.073** RF RSD **12.52** AVE RT **8.05**

2-Chloroethyl vinyl ether

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

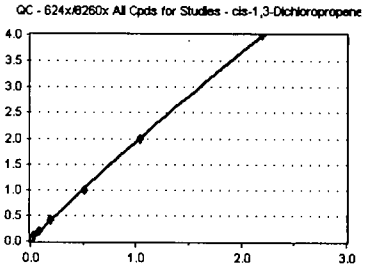


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~119~~	~~4.113~~	~~8.75~~
0D28059-CAL4	1	712	9.250	8.72
0D28059-CAL5	2	1396	9.991	8.72
0D28059-CAL6	5	4421	0.112	8.72
0D28059-CAL7	10	9597	0.125	8.72
0D28059-CAL8	20	25300	0.157	8.72
0D28059-CAL9	50	75399	0.174	8.71
0D28059-CALA	100	176791	0.193	8.71
0D28059-CALB	200	431655	0.211	8.71

AVE RF **0.146** RF RSD **30.64** AVE RT **8.71**

cis-1,3-Dichloropropene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

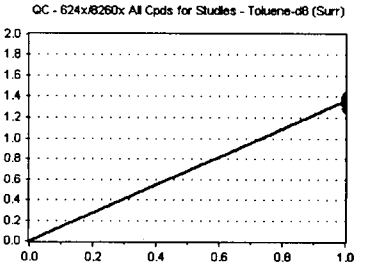


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~199~~	~~0.321~~	~~8.78~~
~~0D28059-CAL2~~	~~0.2~~	~~476~~	~~0.338~~	~~8.78~~
~~0D28059-CAL3~~	~~0.4~~	~~977~~	~~0.338~~	~~8.78~~
0D28059-CAL4	1	2416	0.314	8.78
0D28059-CAL5	2	4719	0.338	8.78
0D28059-CAL6	5	14490	0.366	8.77
0D28059-CAL7	10	31828	0.414	8.77
0D28059-CAL8	20	76593	0.476	8.77
0D28059-CAL9	50	224852	0.518	8.77
0D28059-CALA	100	477036	0.521	8.77
0D28059-CALB	200	1126694	0.550	8.77

AVE RF **0.437** RF RSD **20.91** AVE RT **8.77**

Toluene-d8 (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	437447	1.411	8.97
0D28059-CAL2	50	494085	1.407	8.97
0D28059-CAL3	50	501453	1.386	8.97
0D28059-CAL4	50	534043	1.388	8.97
0D28059-CAL5	50	486856	1.394	8.97
0D28059-CAL6	50	541718	1.370	8.97
0D28059-CAL7	50	522720	1.361	8.97
0D28059-CAL8	50	543124	1.350	8.97
0D28059-CAL9	50	579127	1.335	8.97
0D28059-CALA	50	605813	1.323	8.97
0D28059-CALB	50	661083	1.292	8.97

AVE RF **1.365** RF RSD **2.73** AVE RT **8.97**

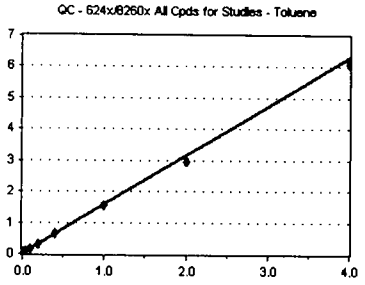
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Toluene

Curve Fit: **AVERAGE RF**

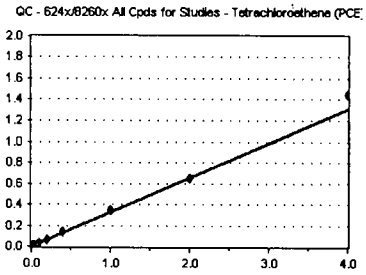


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	1265	2.040	9.03
0D28059-CAL2	0.2	2257	1.607	9.02
0D28059-CAL3	0.4	4633	1.601	9.02
0D28059-CAL4	1	11597	1.507	9.02
0D28059-CAL5	2	20457	1.464	9.02
0D28059-CAL6	5	60036	1.518	9.02
0D28059-CAL7	10	116159	1.513	9.02
0D28059-CAL8	20	254746	1.583	9.02
0D28059-CAL9	50	677362	1.561	9.02
0D28059-CALA	100	1349153	1.473	9.02
0D28059-CALB	200	3114208	1.521	9.02

AVE RF **1.581** RF RSD **10.10** AVE RT **9.02**

Tetrachloroethene (PCE)

Curve Fit: **AVERAGE RF**

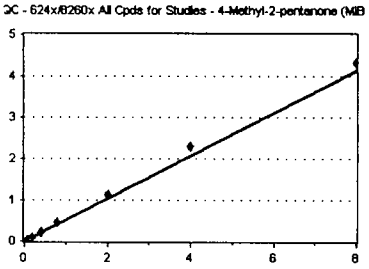


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	188	0.303	9.42
0D28059-CAL2	0.2	432	0.308	9.41
0D28059-CAL3	0.4	1014	0.350	9.42
0D28059-CAL4	1	2420	0.314	9.41
0D28059-CAL5	2	4099	0.293	9.41
0D28059-CAL6	5	13173	0.333	9.41
0D28059-CAL7	10	24546	0.320	9.41
0D28059-CAL8	20	55366	0.344	9.41
0D28059-CAL9	50	148064	0.341	9.41
0D28059-CALA	100	298184	0.326	9.41
0D28059-CALB	200	743359	0.363	9.41

AVE RF **0.327** RF RSD **6.62** AVE RT **9.41**

4-Methyl-2-pentanone (MiBK)

Curve Fit: **AVERAGE RF**

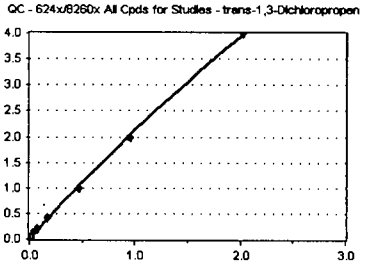


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.2~~	~~425~~	~~0.343~~	~~9.44~~
~~0D28059-CAL2~~	~~0.4~~	~~1009~~	~~0.359~~	~~9.43~~
~~0D28059-CAL3~~	~~0.8~~	~~2070~~	~~0.358~~	~~9.43~~
~~0D28059-CAL4~~	~~2~~	~~5821~~	~~0.378~~	~~9.42~~
0D28059-CAL5	4	11635	0.416	9.42
0D28059-CAL6	10	35418	0.448	9.42
0D28059-CAL7	20	78447	0.511	9.42
0D28059-CAL8	40	181192	0.563	9.41
0D28059-CAL9	100	494983	0.571	9.41
0D28059-CALA	200	1051104	0.574	9.41
0D28059-CALB	400	2206651	0.539	9.41

AVE RF **0.517** RF RSD **12.14** AVE RT **9.41**

trans-1,3-Dichloropropene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~132~~	~~0.213~~	~~9.47~~
~~0D28059-CAL2~~	~~0.2~~	~~262~~	~~0.187~~	~~9.46~~
0D28059-CAL3	0.4	712	0.246	9.46
0D28059-CAL4	1	2195	0.285	9.45
0D28059-CAL5	2	3895	0.279	9.45
0D28059-CAL6	5	13049	0.330	9.45
0D28059-CAL7	10	28464	0.371	9.45
0D28059-CAL8	20	69258	0.430	9.45
0D28059-CAL9	50	202313	0.466	9.45
0D28059-CALA	100	438237	0.478	9.45
0D28059-CALB	200	1034541	0.505	9.45

AVE RF **0.377** RF RSD **25.71** AVE RT **9.45**

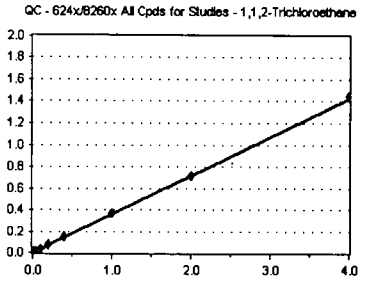
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,1,2-Trichloroethane

Curve Fit: **AVERAGE RF**

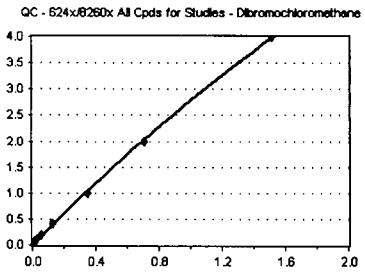


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	221	0.356	9.62
0D28059-CAL2	0.2	483	0.344	9.61
0D28059-CAL3	0.4	1003	0.347	9.61
0D28059-CAL4	1	2686	0.349	9.61
0D28059-CAL5	2	4815	0.345	9.61
0D28059-CAL6	5	14251	0.360	9.60
0D28059-CAL7	10	27495	0.358	9.60
0D28059-CAL8	20	59774	0.372	9.60
0D28059-CAL9	50	160242	0.369	9.60
0D28059-CALA	100	325366	0.355	9.60
0D28059-CALB	200	743055	0.363	9.60

AVE RF **0.356** RF RSD **2.67** AVE RT **9.60**

Dibromochloromethane

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

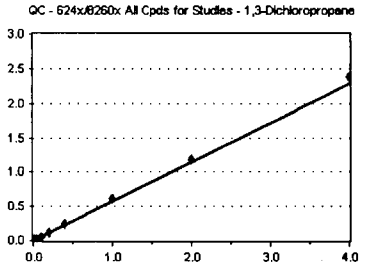


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~141~~	~~0.227~~	~~9.77~~
0D28059-CAL2	0.2	285	0.203	9.78
0D28059-CAL3	0.4	627	0.217	9.77
0D28059-CAL4	1	1804	0.234	9.77
0D28059-CAL5	2	3292	0.236	9.77
0D28059-CAL6	5	10229	0.259	9.76
0D28059-CAL7	10	21974	0.286	9.77
0D28059-CAL8	20	51693	0.321	9.77
0D28059-CAL9	50	151282	0.349	9.77
0D28059-CALA	100	324009	0.354	9.76
0D28059-CALB	200	775840	0.379	9.76

AVE RF **0.284** RF RSD **22.30** AVE RT **9.77**

1,3-Dichloropropane

Curve Fit: **AVERAGE RF**

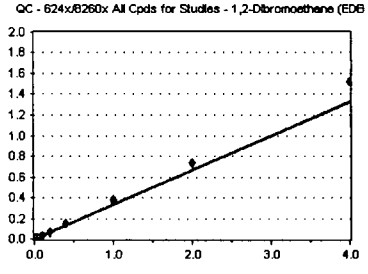


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	384	0.619	9.86
0D28059-CAL2	0.2	668	0.476	9.86
0D28059-CAL3	0.4	1557	0.538	9.86
0D28059-CAL4	1	4282	0.556	9.86
0D28059-CAL5	2	7446	0.533	9.86
0D28059-CAL6	5	22206	0.561	9.86
0D28059-CAL7	10	44749	0.583	9.86
0D28059-CAL8	20	97867	0.608	9.86
0D28059-CAL9	50	264551	0.610	9.86
0D28059-CALA	100	543367	0.593	9.86
0D28059-CALB	200	1220547	0.596	9.86

AVE RF **0.570** RF RSD **7.53** AVE RT **9.86**

1,2-Dibromoethane (EDB)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~135~~	~~0.218~~	~~0.00~~
0D28059-CAL2	0.2	377	0.268	9.98
0D28059-CAL3	0.4	856	0.296	9.99
0D28059-CAL4	1	2229	0.290	9.99
0D28059-CAL5	2	4307	0.308	9.98
0D28059-CAL6	5	12948	0.327	9.98
0D28059-CAL7	10	25910	0.337	9.98
0D28059-CAL8	20	59469	0.370	9.98
0D28059-CAL9	50	162144	0.374	9.98
0D28059-CALA	100	338306	0.369	9.98
0D28059-CALB	200	782130	0.382	9.98

AVE RF **0.332** RF RSD **12.22** AVE RT **9.98**

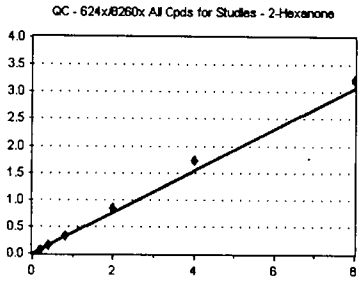
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

2-Hexanone

Curve Fit: **AVERAGE RF**

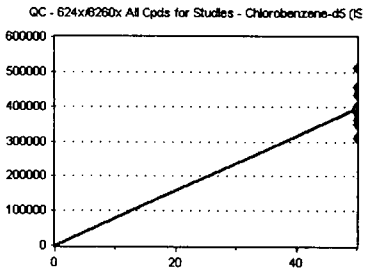


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.2~~	~~181~~	~~0.146~~	~~0.00~~
~~0D28059-CAL2~~	~~0.4~~	~~490~~	~~0.174~~	~~10.20~~
~~0D28059-CAL3~~	~~0.8~~	~~1203~~	~~0.208~~	~~10.20~~
~~0D28059-CAL4~~	~~2~~	~~3387~~	~~0.220~~	~~10.20~~
~~0D28059-CAL5~~	~~4~~	~~7344~~	~~0.263~~	~~10.19~~
0D28059-CAL6	10	22555	0.285	10.19
0D28059-CAL7	20	54460	0.355	10.19
0D28059-CAL8	40	131124	0.407	10.19
0D28059-CAL9	100	365112	0.421	10.18
0D28059-CALA	200	791292	0.432	10.18
0D28059-CALB	400	1645799	0.402	10.18

AVE RF **0.384** RF RSD **14.36** AVE RT **10.19**

Chlorobenzene-d5 (ISTD)

Curve Fit: **AVERAGE RF**

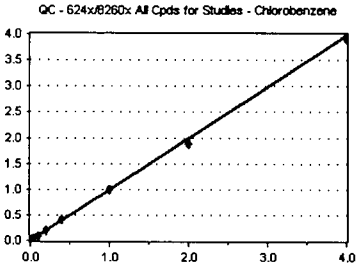


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	310108	6202.160	10.43
0D28059-CAL2	50	351200	7024.000	10.43
0D28059-CAL3	50	361683	7233.660	10.43
0D28059-CAL4	50	384850	7697.000	10.43
0D28059-CAL5	50	349304	6986.080	10.43
0D28059-CAL6	50	395555	7911.100	10.43
0D28059-CAL7	50	383963	7679.260	10.43
0D28059-CAL8	50	402229	8044.580	10.43
0D28059-CAL9	50	433790	8675.800	10.43
0D28059-CALA	50	457980	9159.600	10.43
0D28059-CALB	50	511754	10235.080	10.43

AVE RF **7895.302** RF RSD **14.26** AVE RT **10.43**

Chlorobenzene

Curve Fit: **AVERAGE RF**

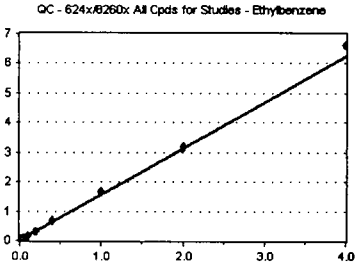


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	784	1.264	10.45
0D28059-CAL2	0.2	1372	0.977	10.44
0D28059-CAL3	0.4	2815	0.973	10.45
0D28059-CAL4	1	7377	0.958	10.45
0D28059-CAL5	2	13084	0.936	10.45
0D28059-CAL6	5	38442	0.972	10.45
0D28059-CAL7	10	73524	0.957	10.45
0D28059-CAL8	20	161648	1.005	10.45
0D28059-CAL9	50	430146	0.992	10.45
0D28059-CALA	100	866291	0.946	10.45
0D28059-CALB	200	2006540	0.980	10.45

AVE RF **0.996** RF RSD **9.13** AVE RT **10.45**

Ethylbenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	1080	1.741	10.48
0D28059-CAL2	0.2	1953	1.390	10.47
0D28059-CAL3	0.4	4039	1.396	10.47
0D28059-CAL4	1	11594	1.506	10.47
0D28059-CAL5	2	20551	1.471	10.47
0D28059-CAL6	5	60457	1.528	10.47
0D28059-CAL7	10	120072	1.564	10.47
0D28059-CAL8	20	267924	1.665	10.46
0D28059-CAL9	50	723698	1.668	10.46
0D28059-CALA	100	1452579	1.586	10.46
0D28059-CALB	200	3390116	1.656	10.46

AVE RF **1.561** RF RSD **7.39** AVE RT **10.47**

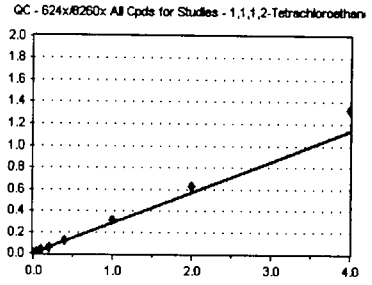
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,1,1,2-Tetrachloroethane

Curve Fit: **AVERAGE RF**

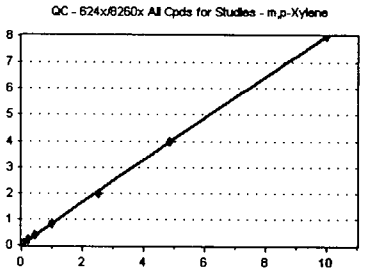


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~140~~	~~0.226~~	~~0.00~~
0D28059-CAL2	0.2	402	0.286	10.50
0D28059-CAL3	0.4	700	0.242	10.50
0D28059-CAL4	1	1901	0.247	10.50
0D28059-CAL5	2	3453	0.247	10.50
0D28059-CAL6	5	10701	0.271	10.50
0D28059-CAL7	10	21231	0.276	10.50
0D28059-CAL8	20	48948	0.304	10.50
0D28059-CAL9	50	135859	0.313	10.50
0D28059-CALA	100	285345	0.312	10.50
0D28059-CALB	200	678121	0.331	10.50

AVE RF **0.283** RF RSD **11.17** AVE RT **10.50**

m,p-Xylene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

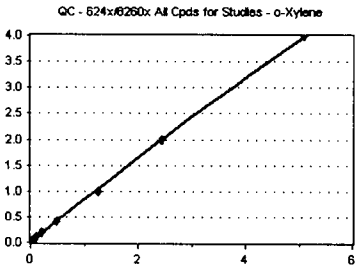


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.2	1169	0.942	10.60
0D28059-CAL2	0.4	2530	0.900	10.59
0D28059-CAL3	0.8	4861	0.840	10.60
0D28059-CAL4	2	14033	0.912	10.59
0D28059-CAL5	4	25600	0.916	10.59
0D28059-CAL6	10	82936	1.048	10.59
0D28059-CAL7	20	172596	1.124	10.59
0D28059-CAL8	40	395642	1.230	10.59
0D28059-CAL9	100	1089425	1.256	10.59
0D28059-CALA	200	2216310	1.210	10.59
0D28059-CALB	400	5118451	1.250	10.59

AVE RF **1.057** RF RSD **15.26** AVE RT **10.59**

o-Xylene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

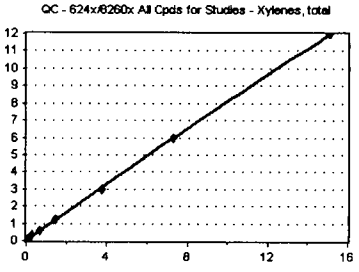


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	660	1.064	10.95
0D28059-CAL2	0.2	1046	0.745	10.95
0D28059-CAL3	0.4	2184	0.755	10.95
0D28059-CAL4	1	6116	0.795	10.95
0D28059-CAL5	2	11482	0.822	10.95
0D28059-CAL6	5	37475	0.947	10.95
0D28059-CAL7	10	80619	1.050	10.95
0D28059-CAL8	20	192167	1.194	10.95
0D28059-CAL9	50	545910	1.258	10.95
0D28059-CALA	100	1120662	1.223	10.95
0D28059-CALB	200	2610008	1.275	10.95

AVE RF **1.012** RF RSD **20.67** AVE RT **10.95**

Xylenes, total

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.3	1829	0.983	10.95
0D28059-CAL2	0.6	3576	0.849	10.95
0D28059-CAL3	1.2	7045	0.812	10.95
0D28059-CAL4	3	20149	0.873	10.95
0D28059-CAL5	6	37082	0.885	10.95
0D28059-CAL6	15	120411	1.015	10.95
0D28059-CAL7	30	253215	1.099	10.95
0D28059-CAL8	60	587809	1.218	10.95
0D28059-CAL9	150	1635335	1.257	10.95
0D28059-CALA	300	3336972	1.214	10.95
0D28059-CALB	600	7728459	1.258	10.95

AVE RF **1.042** RF RSD **16.76** AVE RT **10.95**

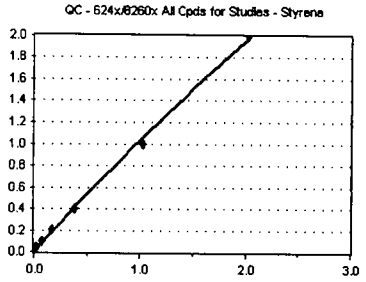
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Styrene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

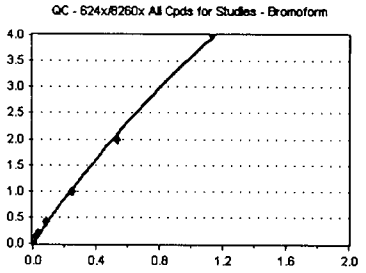


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~277~~	~~0.447~~	~~11.01~~
0D28059-CAL2	0.2	645	0.459	11.01
0D28059-CAL3	0.4	1543	0.533	11.00
0D28059-CAL4	1	4390	0.570	11.00
0D28059-CAL5	2	8265	0.592	11.00
0D28059-CAL6	5	29377	0.743	11.00
0D28059-CAL7	10	65789	0.857	11.00
0D28059-CAL8	20	155824	0.969	10.99
0D28059-CAL9	50	443946	1.023	10.99
0D28059-CALA	100	925198	1.010	10.99
~~0D28059-CALB~~	~~200~~	~~2122456~~	~~1.037~~	~~10.99~~

AVE RF **0.751** RF RSD **29.43** AVE RT **11.00**

Bromoform

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

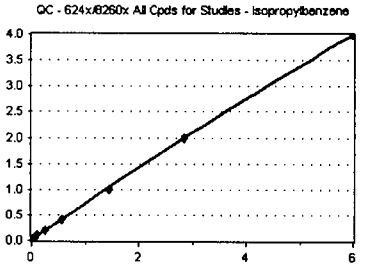


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~71~~	~~0.114~~	~~11.02~~
0D28059-CAL2	0.2	181	0.129	11.03
0D28059-CAL3	0.4	411	0.142	11.02
0D28059-CAL4	1	1185	0.154	11.02
0D28059-CAL5	2	2032	0.145	11.02
0D28059-CAL6	5	6855	0.173	11.02
0D28059-CAL7	10	14508	0.189	11.02
0D28059-CAL8	20	35427	0.220	11.02
0D28059-CAL9	50	109913	0.253	11.02
0D28059-CALA	100	245900	0.268	11.02
0D28059-CALB	200	580388	0.284	11.02

AVE RF **0.196** RF RSD **29.04** AVE RT **11.02**

Isopropylbenzene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

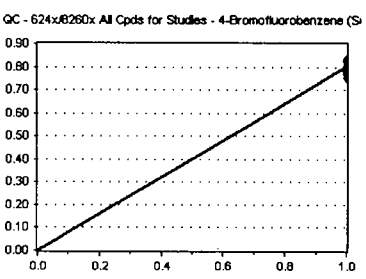


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~595~~	~~0.959~~	~~11.20~~
0D28059-CAL2	0.2	1157	0.824	11.21
0D28059-CAL3	0.4	2263	0.782	11.20
0D28059-CAL4	1	7045	0.915	11.20
0D28059-CAL5	2	12996	0.930	11.20
0D28059-CAL6	5	43279	1.094	11.20
0D28059-CAL7	10	93386	1.216	11.20
0D28059-CAL8	20	224839	1.397	11.20
0D28059-CAL9	50	634097	1.462	11.20
0D28059-CALA	100	1303456	1.423	11.20
0D28059-CALB	200	3059960	1.495	11.20

AVE RF **1.154** RF RSD **24.25** AVE RT **11.20**

4-Bromofluorobenzene (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	107903	0.833	11.43
0D28059-CAL2	50	122178	0.826	11.43
0D28059-CAL3	50	126405	0.830	11.43
0D28059-CAL4	50	138403	0.824	11.43
0D28059-CAL5	50	124756	0.823	11.43
0D28059-CAL6	50	144745	0.804	11.43
0D28059-CAL7	50	142580	0.799	11.43
0D28059-CAL8	50	151710	0.781	11.43
0D28059-CAL9	50	167491	0.768	11.43
0D28059-CALA	50	176212	0.755	11.43
0D28059-CALB	50	191987	0.780	11.43

AVE RF **0.802** RF RSD **3.41** AVE RT **11.43**

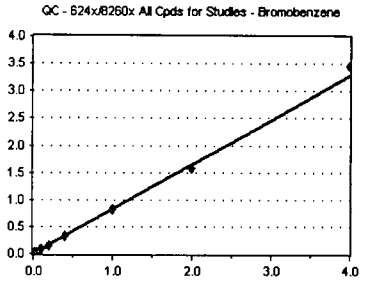
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Bromobenzene

Curve Fit: **AVERAGE RF**

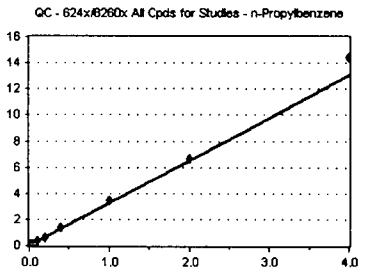


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	220	0.849	11.51
0D28059-CAL2	0.2	477	0.807	11.51
0D28059-CAL3	0.4	1011	0.830	11.51
0D28059-CAL4	1	2856	0.850	11.51
0D28059-CAL5	2	4698	0.775	11.51
0D28059-CAL6	5	14510	0.806	11.51
0D28059-CAL7	10	28215	0.790	11.51
0D28059-CAL8	20	64696	0.833	11.51
0D28059-CAL9	50	178576	0.819	11.51
0D28059-CALA	100	369547	0.792	11.51
0D28059-CALB	200	850318	0.864	11.51

AVE RF **0.819** RF RSD **3.46** AVE RT **11.51**

n-Propylbenzene

Curve Fit: **AVERAGE RF**

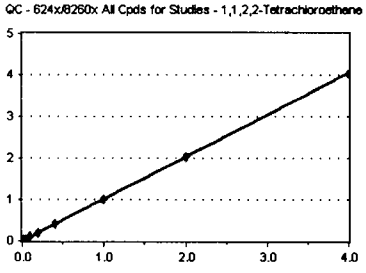


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	972	3.750	11.53
0D28059-CAL2	0.2	1758	2.973	11.53
0D28059-CAL3	0.4	3735	3.065	11.53
0D28059-CAL4	1	9809	2.921	11.53
0D28059-CAL5	2	17637	2.908	11.53
0D28059-CAL6	5	55551	3.087	11.53
0D28059-CAL7	10	115790	3.242	11.53
0D28059-CAL8	20	270477	3.483	11.52
0D28059-CAL9	50	753971	3.458	11.52
0D28059-CALA	100	1547444	3.317	11.52
0D28059-CALB	200	3545698	3.601	11.52

AVE RF **3.255** RF RSD **8.90** AVE RT **11.52**

1,1,2,2-Tetrachloroethane

Curve Fit: **AVERAGE RF**

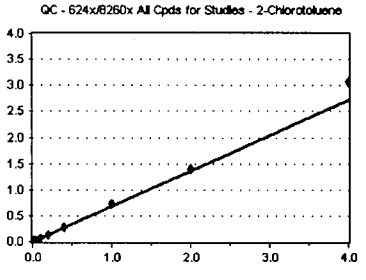


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	312	1.204	11.60
0D28059-CAL2	0.2	560	0.947	11.59
0D28059-CAL3	0.4	1213	0.995	11.59
0D28059-CAL4	1	3424	1.019	11.59
0D28059-CAL5	2	5938	0.979	11.58
0D28059-CAL6	5	17506	0.973	11.59
0D28059-CAL7	10	35152	0.984	11.59
0D28059-CAL8	20	78508	1.011	11.59
0D28059-CAL9	50	218708	1.003	11.58
0D28059-CALA	100	473849	1.016	11.58
0D28059-CALB	200	994174	1.010	11.58

AVE RF **1.013** RF RSD **6.61** AVE RT **11.58**

2-Chlorotoluene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	191	0.737	11.66
0D28059-CAL2	0.2	365	0.617	11.65
0D28059-CAL3	0.4	753	0.618	11.65
0D28059-CAL4	1	2065	0.615	11.65
0D28059-CAL5	2	3818	0.629	11.65
0D28059-CAL6	5	11788	0.655	11.65
0D28059-CAL7	10	24180	0.677	11.65
0D28059-CAL8	20	56094	0.722	11.65
0D28059-CAL9	50	158246	0.726	11.65
0D28059-CALA	100	327467	0.702	11.65
0D28059-CALB	200	757592	0.769	11.65

AVE RF **0.679** RF RSD **8.18** AVE RT **11.65**

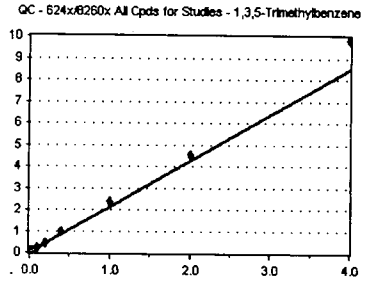
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,3,5-Trimethylbenzene

Curve Fit: **AVERAGE RF**

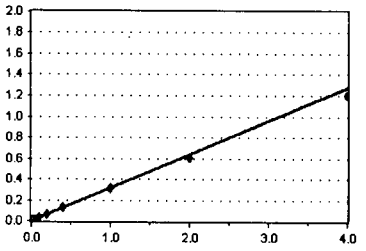


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~506~~	~~1.952~~	~~11.68~~
~~0D28059-CAL2~~	~~0.2~~	~~901~~	~~1.524~~	~~11.67~~
~~0D28059-CAL3~~	~~0.4~~	~~2046~~	~~1.679~~	~~11.67~~
0D28059-CAL4	1	5426	1.616	11.67
0D28059-CAL5	2	10389	1.713	11.67
0D28059-CAL6	5	35877	1.994	11.67
0D28059-CAL7	10	77814	2.179	11.67
0D28059-CAL8	20	183706	2.366	11.67
0D28059-CAL9	50	514083	2.358	11.67
0D28059-CALA	100	1065161	2.283	11.67
0D28059-CALB	200	2427844	2.466	11.67

AVE RF **2.122** RF RSD **14.93** AVE RT **11.67**

1,2,3-Trichloropropane

Curve Fit: **AVERAGE RF**

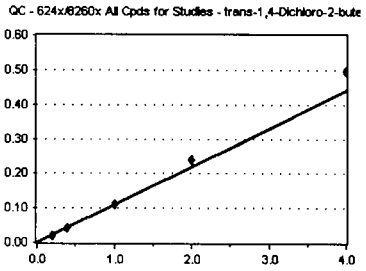


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~68~~	~~0.262~~	~~11.70~~
0D28059-CAL2	0.2	184	0.311	11.70
0D28059-CAL3	0.4	379	0.311	11.69
0D28059-CAL4	1	1181	0.352	11.69
0D28059-CAL5	2	1959	0.323	11.69
0D28059-CAL6	5	5738	0.319	11.69
0D28059-CAL7	10	11646	0.326	11.69
0D28059-CAL8	20	25712	0.331	11.69
0D28059-CAL9	50	67976	0.312	11.69
0D28059-CALA	100	141478	0.303	11.69
0D28059-CALB	200	296100	0.301	11.69

AVE RF **0.319** RF RSD **4.72** AVE RT **11.69**

trans-1,4-Dichloro-2-butene

Curve Fit: **AVERAGE RF**

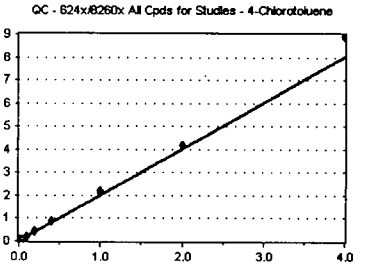


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL4~~	~~1~~	~~228~~	~~6.789~~	~~11.72~~
~~0D28059-CAL5~~	~~2~~	~~427~~	~~7.040~~	~~11.72~~
~~0D28059-CAL6~~	~~5~~	~~1351~~	~~7.508~~	~~11.72~~
0D28059-CAL7	10	3230	9.045	11.72
0D28059-CAL8	20	8122	0.105	11.72
0D28059-CAL9	50	24353	0.112	11.72
0D28059-CALA	100	55724	0.119	11.71
0D28059-CALB	200	122105	0.124	11.71

AVE RF **0.110** RF RSD **12.02** AVE RT **11.72**

4-Chlorotoluene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	557	2.149	11.78
0D28059-CAL2	0.2	1076	1.820	11.79
0D28059-CAL3	0.4	2118	1.738	11.78
0D28059-CAL4	1	5937	1.768	11.78
0D28059-CAL5	2	11046	1.821	11.78
0D28059-CAL6	5	34971	1.943	11.78
0D28059-CAL7	10	74114	2.075	11.78
0D28059-CAL8	20	171897	2.214	11.78
0D28059-CAL9	50	475089	2.179	11.78
0D28059-CALA	100	977949	2.096	11.78
0D28059-CALB	200	2189587	2.224	11.78

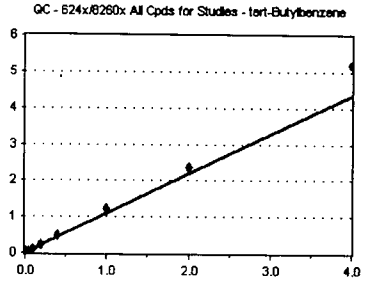
AVE RF **2.002** RF RSD **9.41** AVE RT **11.78**

Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

tert-Butylbenzene

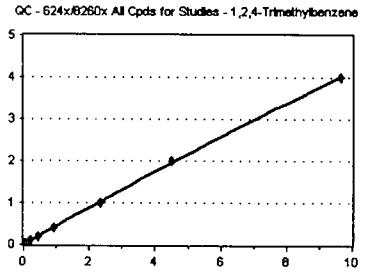


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~367~~	~~1.377~~	~~11.92~~
0D28059-CAL2	0.2	592	1.001	11.92
0D28059-CAL3	0.4	1103	0.905	11.91
0D28059-CAL4	1	3171	0.944	11.92
0D28059-CAL5	2	5969	0.984	11.92
0D28059-CAL6	5	18795	1.044	11.92
0D28059-CAL7	10	39548	1.107	11.92
0D28059-CAL8	20	93619	1.206	11.91
0D28059-CAL9	50	266112	1.220	11.91
0D28059-CALA	100	553693	1.187	11.91
0D28059-CALB	200	1274708	1.295	11.91

AVE RF **1.089** RF RSD **12.18** AVE RT **11.91**

1,2,4-Trimethylbenzene

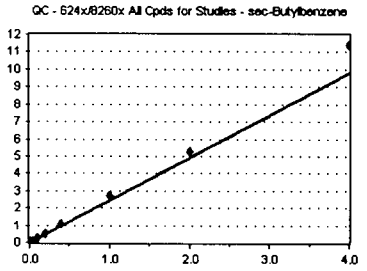


Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~468~~	~~1.806~~	~~11.97~~
~~0D28059-CAL2~~	~~0.2~~	~~860~~	~~1.454~~	~~11.97~~
0D28059-CAL3	0.4	1738	1.426	11.97
0D28059-CAL4	1	5139	1.530	11.97
0D28059-CAL5	2	9775	1.612	11.96
0D28059-CAL6	5	35221	1.957	11.96
0D28059-CAL7	10	77201	2.162	11.96
0D28059-CAL8	20	181278	2.334	11.96
0D28059-CAL9	50	509496	2.336	11.96
0D28059-CALA	100	1047842	2.246	11.96
0D28059-CALB	200	2375385	2.412	11.96

AVE RF **2.002** RF RSD **19.22** AVE RT **11.97**

sec-Butylbenzene

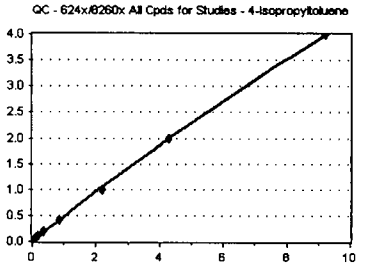


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~570~~	~~2.199~~	~~12.04~~
~~0D28059-CAL2~~	~~0.2~~	~~1055~~	~~1.784~~	~~12.05~~
~~0D28059-CAL3~~	~~0.4~~	~~2369~~	~~1.944~~	~~12.05~~
0D28059-CAL4	1	6597	1.964	12.05
0D28059-CAL5	2	12245	2.019	12.04
0D28059-CAL6	5	41621	2.313	12.04
0D28059-CAL7	10	88075	2.466	12.04
0D28059-CAL8	20	208931	2.690	12.04
0D28059-CAL9	50	590118	2.706	12.04
0D28059-CALA	100	1227821	2.632	12.04
0D28059-CALB	200	2807398	2.851	12.04

AVE RF **2.455** RF RSD **13.40** AVE RT **12.04**

4-Isopropyltoluene



Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~409~~	~~1.578~~	~~12.15~~
0D28059-CAL2	0.2	770	1.302	12.15
0D28059-CAL3	0.4	1664	1.365	12.15
0D28059-CAL4	1	4567	1.360	12.15
0D28059-CAL5	2	8900	1.467	12.15
0D28059-CAL6	5	30863	1.715	12.15
0D28059-CAL7	10	66417	1.860	12.15
0D28059-CAL8	20	162974	2.099	12.15
0D28059-CAL9	50	475738	2.182	12.15
0D28059-CALA	100	998151	2.139	12.15
0D28059-CALB	200	2273833	2.309	12.15

AVE RF **1.780** RF RSD **21.82** AVE RT **12.15**

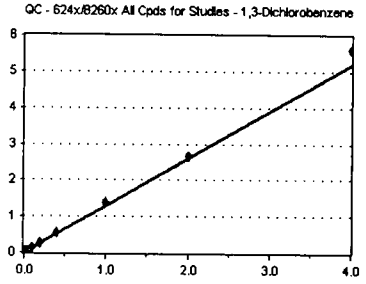
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,3-Dichlorobenzene

Curve Fit: **AVERAGE RF**

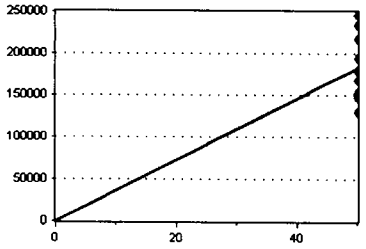


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	351	1.354	12.23
0D28059-CAL2	0.2	720	1.218	12.23
0D28059-CAL3	0.4	1456	1.195	12.23
0D28059-CAL4	1	4061	1.209	12.22
0D28059-CAL5	2	7077	1.167	12.22
0D28059-CAL6	5	23270	1.293	12.22
0D28059-CAL7	10	47228	1.323	12.22
0D28059-CAL8	20	108348	1.395	12.22
0D28059-CAL9	50	304760	1.398	12.22
0D28059-CALA	100	624132	1.338	12.22
0D28059-CALB	200	1380557	1.402	12.22

AVE RF **1.299** RF RSD **6.79** AVE RT **12.22**

1,4-Dichlorobenzene-d4 (ISTD)

Curve Fit: **AVERAGE RF**

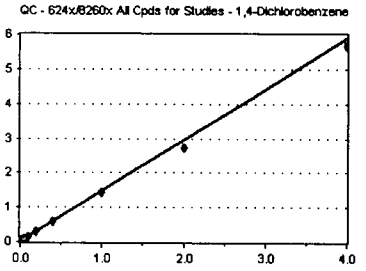


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	129589	2591.780	12.28
0D28059-CAL2	50	147833	2956.660	12.28
0D28059-CAL3	50	152333	3046.660	12.28
0D28059-CAL4	50	167927	3358.540	12.28
0D28059-CAL5	50	151641	3032.820	12.28
0D28059-CAL6	50	179946	3598.920	12.28
0D28059-CAL7	50	178553	3571.060	12.28
0D28059-CAL8	50	194144	3882.880	12.28
0D28059-CAL9	50	218062	4361.240	12.28
0D28059-CALA	50	233282	4665.640	12.28
0D28059-CALB	50	246154	4923.080	12.28

AVE RF **3635.389** RF RSD **20.68** AVE RT **12.28**

1,4-Dichlorobenzene

Curve Fit: **AVERAGE RF**

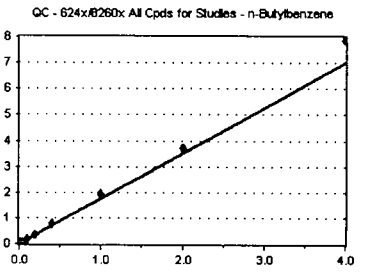


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	460	1.775	12.28
0D28059-CAL2	0.2	974	1.647	12.29
0D28059-CAL3	0.4	1856	1.523	12.29
0D28059-CAL4	1	4946	1.473	12.29
0D28059-CAL5	2	8207	1.353	12.29
0D28059-CAL6	5	25459	1.415	12.29
0D28059-CAL7	10	50096	1.403	12.29
0D28059-CAL8	20	112685	1.451	12.29
0D28059-CAL9	50	311097	1.427	12.29
0D28059-CALA	100	635898	1.363	12.29
0D28059-CALB	200	1398040	1.420	12.29

AVE RF **1.477** RF RSD **8.67** AVE RT **12.29**

n-Butylbenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~402~~	~~1.551~~	~~12.48~~
~~0D28059-CAL2~~	~~0.2~~	~~781~~	~~1.321~~	~~12.48~~
~~0D28059-CAL3~~	~~0.4~~	~~1571~~	~~1.289~~	~~12.47~~
0D28059-CAL4	1	4814	1.433	12.47
0D28059-CAL5	2	8803	1.451	12.47
0D28059-CAL6	5	29620	1.646	12.47
0D28059-CAL7	10	63004	1.764	12.47
0D28059-CAL8	20	150042	1.932	12.47
0D28059-CAL9	50	421761	1.934	12.46
0D28059-CALA	100	868364	1.861	12.46
0D28059-CALB	200	1938953	1.969	12.46

AVE RF **1.749** RF RSD **12.38** AVE RT **12.47**

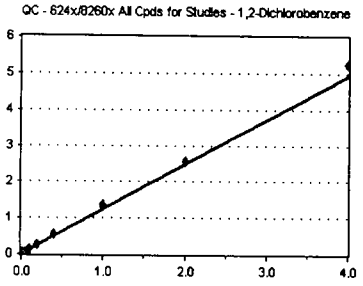
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,2-Dichlorobenzene

Curve Fit: **AVERAGE RF**

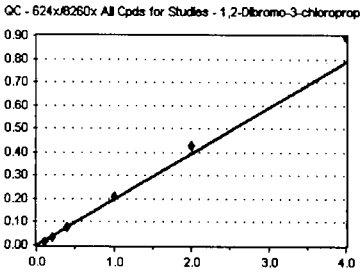


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	327	1.262	12.62
0D28059-CAL2	0.2	615	1.040	12.62
0D28059-CAL3	0.4	1407	1.155	12.62
0D28059-CAL4	1	3752	1.117	12.62
0D28059-CAL5	2	7179	1.184	12.62
0D28059-CAL6	5	22390	1.244	12.62
0D28059-CAL7	10	45442	1.273	12.62
0D28059-CAL8	20	105171	1.354	12.61
0D28059-CAL9	50	294861	1.352	12.61
0D28059-CALA	100	599072	1.284	12.61
0D28059-CALB	200	1294660	1.315	12.61

AVE RF **1.234** RF RSD **8.10** AVE RT **12.61**

1,2-Dibromo-3-chloropropane

Curve Fit: **AVERAGE RF**

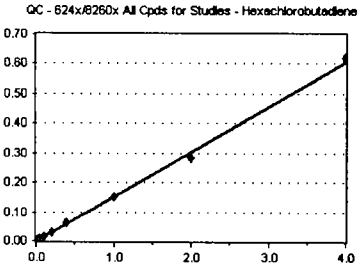


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~62~~	~~0.105~~	~~13.27~~
~~0D28059-CAL3~~	~~0.4~~	~~156~~	~~0.128~~	~~13.26~~
~~0D28059-CAL4~~	~~1~~	~~408~~	~~0.121~~	~~13.27~~
~~0D28059-CAL5~~	~~2~~	~~865~~	~~0.141~~	~~13.26~~
0D28059-CAL6	5	2995	0.166	13.26
0D28059-CAL7	10	6172	0.173	13.26
0D28059-CAL8	20	15323	0.197	13.26
0D28059-CAL9	50	45658	0.209	13.26
0D28059-CALA	100	100386	0.215	13.26
0D28059-CALB	200	220807	0.224	13.26

AVE RF **0.198** RF RSD **11.85** AVE RT **13.26**

Hexachlorobutadiene

Curve Fit: **AVERAGE RF**

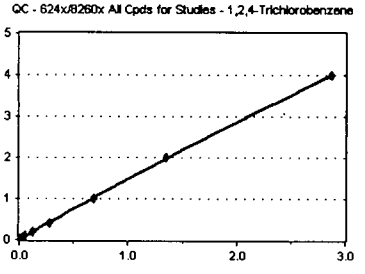


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~70~~	~~0.118~~	~~13.81~~
0D28059-CAL3	0.4	185	0.152	13.81
0D28059-CAL4	1	477	0.142	13.81
0D28059-CAL5	2	894	0.147	13.81
0D28059-CAL6	5	2853	0.159	13.81
0D28059-CAL7	10	5547	0.155	13.81
0D28059-CAL8	20	12746	0.164	13.81
0D28059-CAL9	50	32798	0.150	13.81
0D28059-CALA	100	65865	0.141	13.81
0D28059-CALB	200	152484	0.155	13.81

AVE RF **0.152** RF RSD **4.94** AVE RT **13.81**

1,2,4-Trichlorobenzene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~99~~	~~0.382~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~239~~	~~0.404~~	~~13.86~~
0D28059-CAL3	0.4	554	0.455	13.86
0D28059-CAL4	1	1599	0.476	13.86
0D28059-CAL5	2	2821	0.465	13.86
0D28059-CAL6	5	9612	0.534	13.85
0D28059-CAL7	10	21662	0.607	13.85
0D28059-CAL8	20	54807	0.706	13.85
0D28059-CAL9	50	150152	0.689	13.85
0D28059-CALA	100	314733	0.675	13.85
0D28059-CALB	200	708955	0.720	13.85

AVE RF **0.592** RF RSD **18.65** AVE RT **13.86**

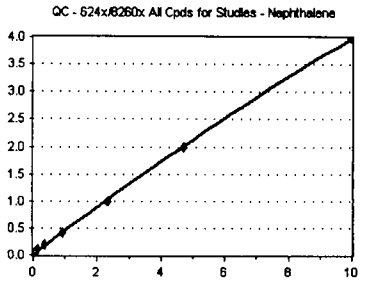
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Naphthalene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

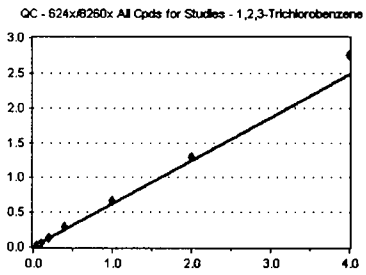


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~291~~	~~1.123~~	~~14.19~~
~~0D28059-CAL2~~	~~0.2~~	~~494~~	~~0.835~~	~~14.19~~
~~0D28059-CAL3~~	~~0.4~~	~~1138~~	~~0.934~~	~~14.19~~
0D28059-CAL4	1	3600	1.072	14.18
0D28059-CAL5	2	6717	1.107	14.18
0D28059-CAL6	5	23409	1.301	14.18
0D28059-CAL7	10	61073	1.710	14.18
0D28059-CAL8	20	176300	2.270	14.18
0D28059-CAL9	50	510381	2.341	14.18
0D28059-CALA	100	1104031	2.366	14.18
0D28059-CALB	200	2456596	2.495	14.18

AVE RF **1.833** RF RSD **33.09** AVE RT **14.18**

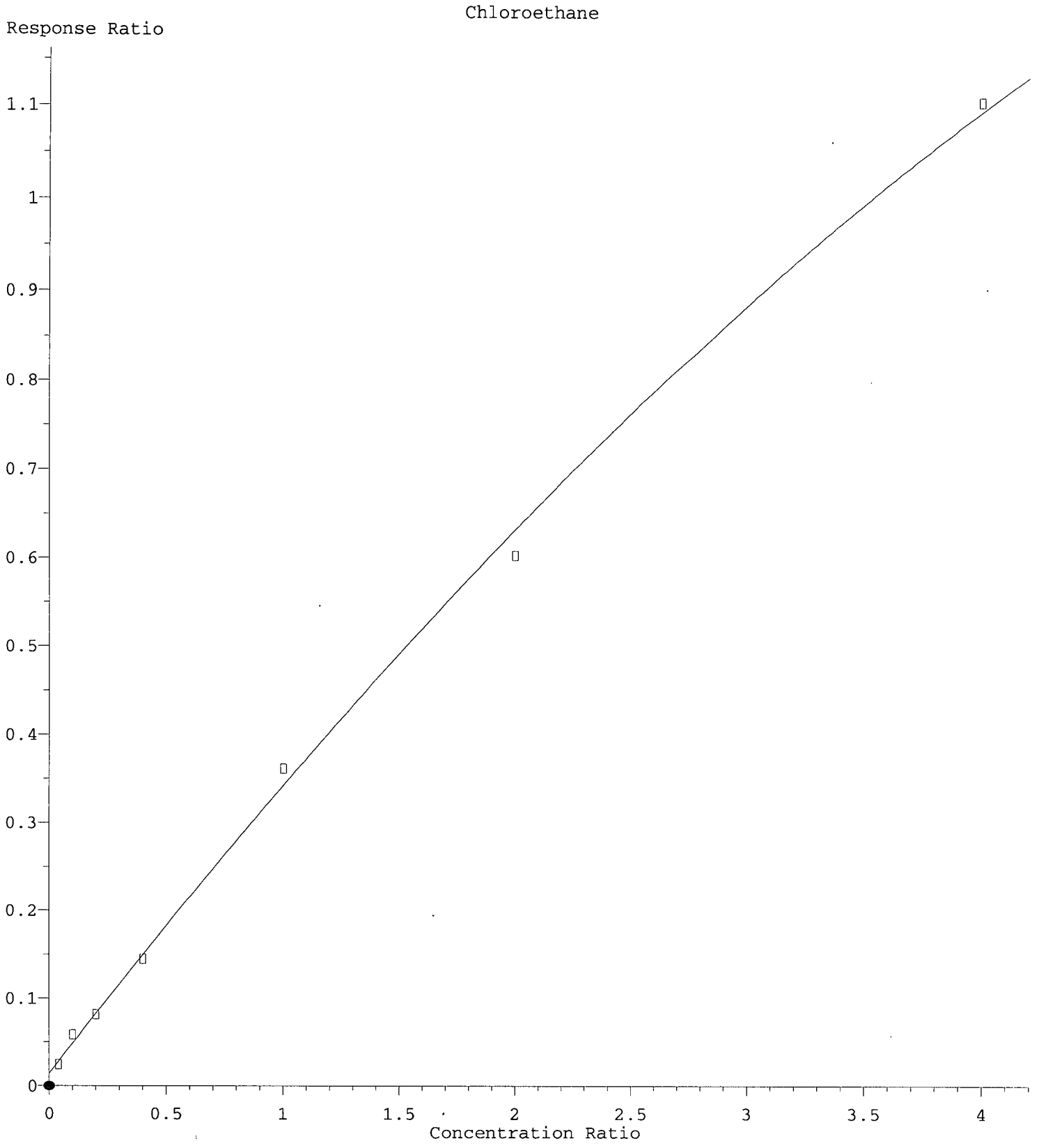
1,2,3-Trichlorobenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~236~~	~~0.399~~	~~14.37~~
~~0D28059-CAL3~~	~~0.4~~	~~532~~	~~0.437~~	~~14.38~~
~~0D28059-CAL4~~	~~1~~	~~1517~~	~~0.452~~	~~14.38~~
0D28059-CAL5	2	2840	0.468	14.37
0D28059-CAL6	5	9690	0.538	14.37
0D28059-CAL7	10	22187	0.621	14.37
0D28059-CAL8	20	55471	0.714	14.37
0D28059-CAL9	50	144488	0.663	14.37
0D28059-CALA	100	301675	0.647	14.37
0D28059-CALB	200	678103	0.689	14.37

AVE RF **0.620** RF RSD **14.09** AVE RT **14.37**



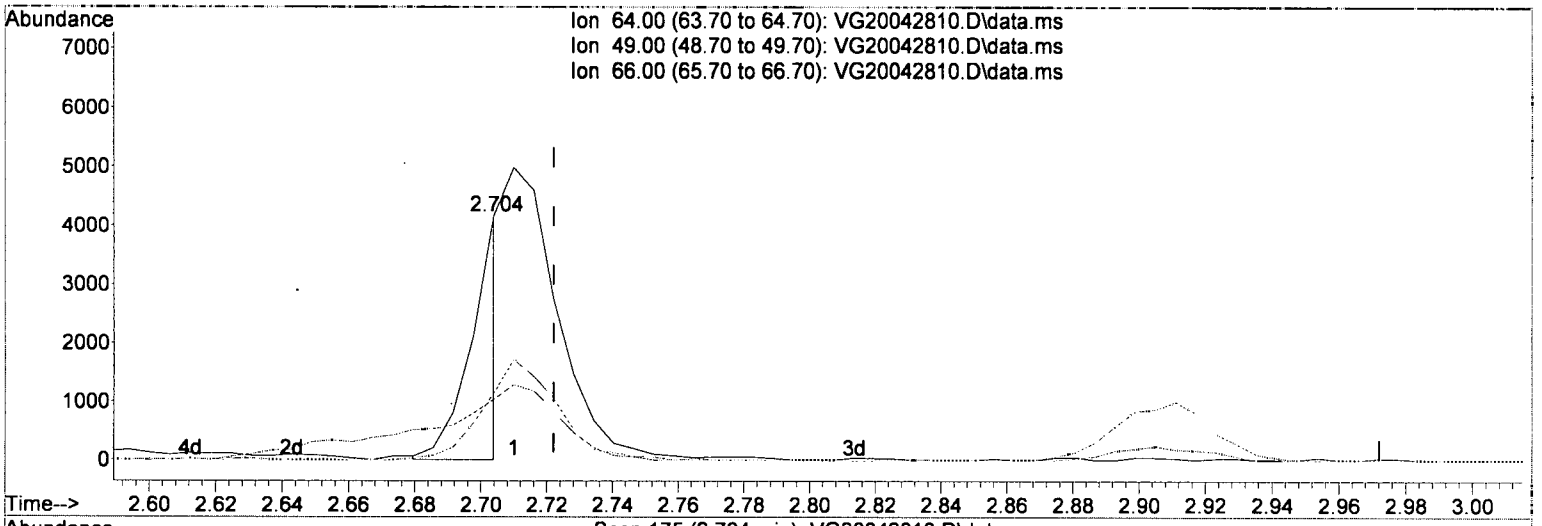
Intercept < MDL
4/30/2020

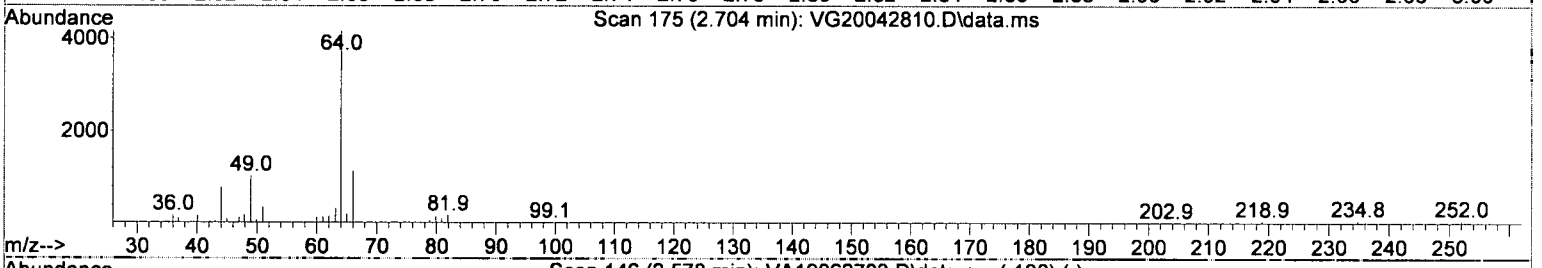
R = -1.92e-002 A*A + 3.47e-001 A + 1.39e-002
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Thu Apr 30 09:25:52 2020

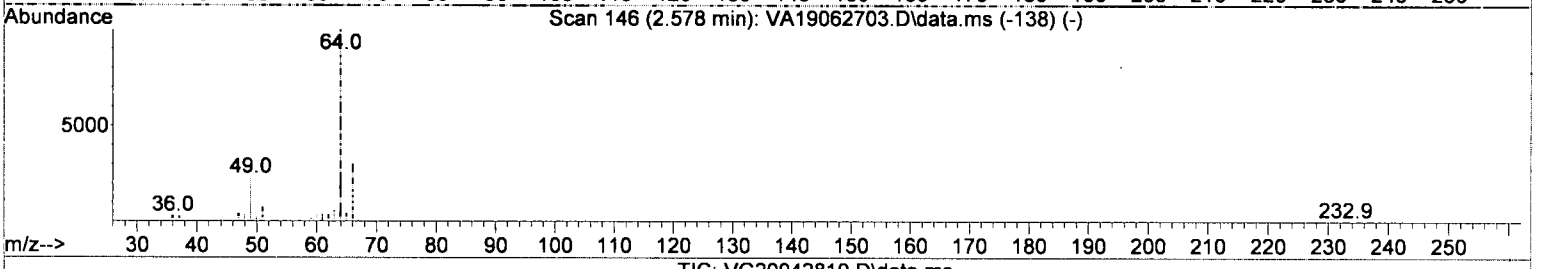
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 30 09:26:42 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







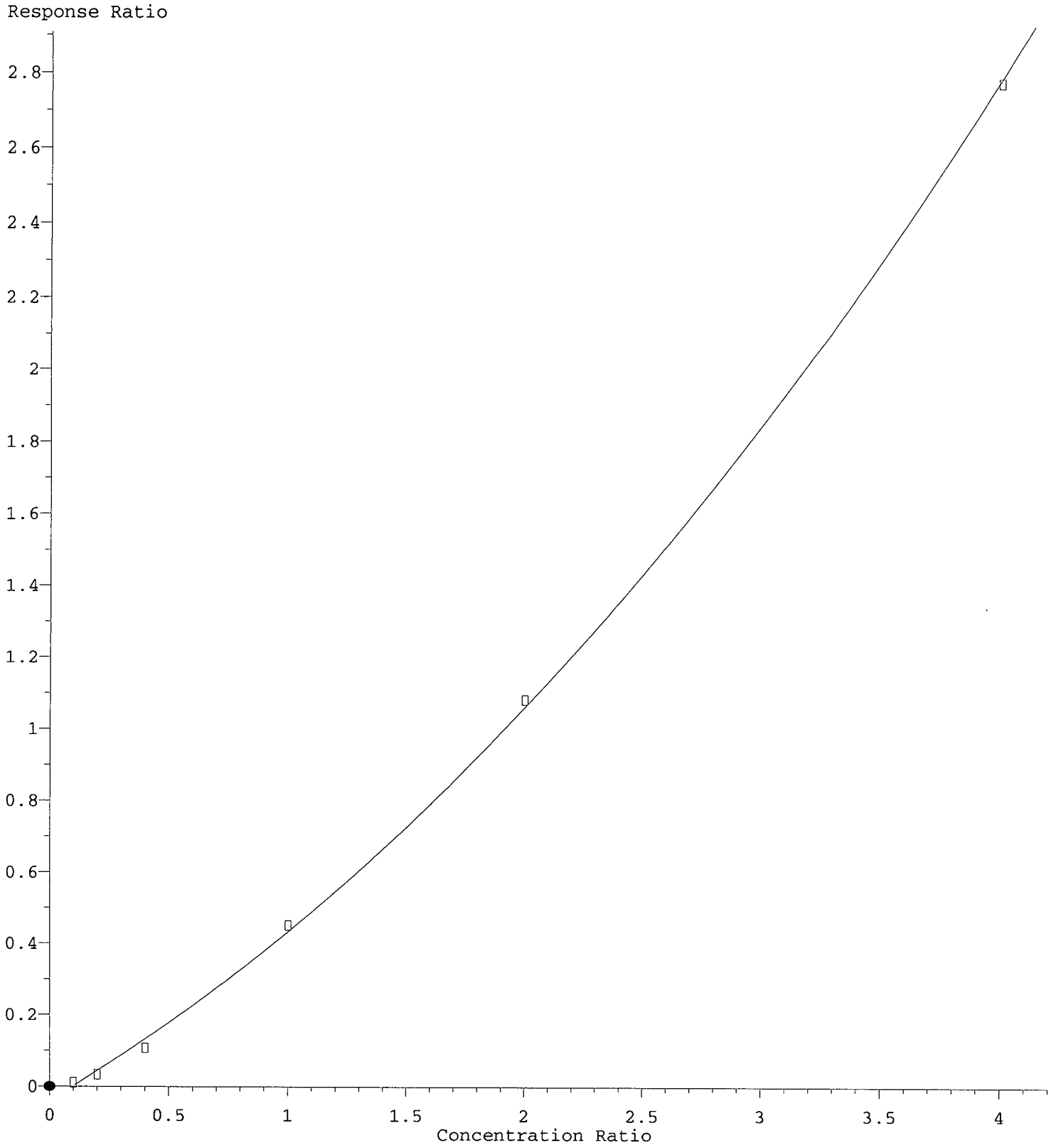
TIC: VG20042810.D\data.ms

(6) Chloroethane

2.704min (-0.018) 0.69 ug/L m

response 2666

Ion	Exp%	Act%
64.00	100.00	100.00
49.00	24.30	24.78
66.00	31.30	27.23
0.00	0.00	0.00



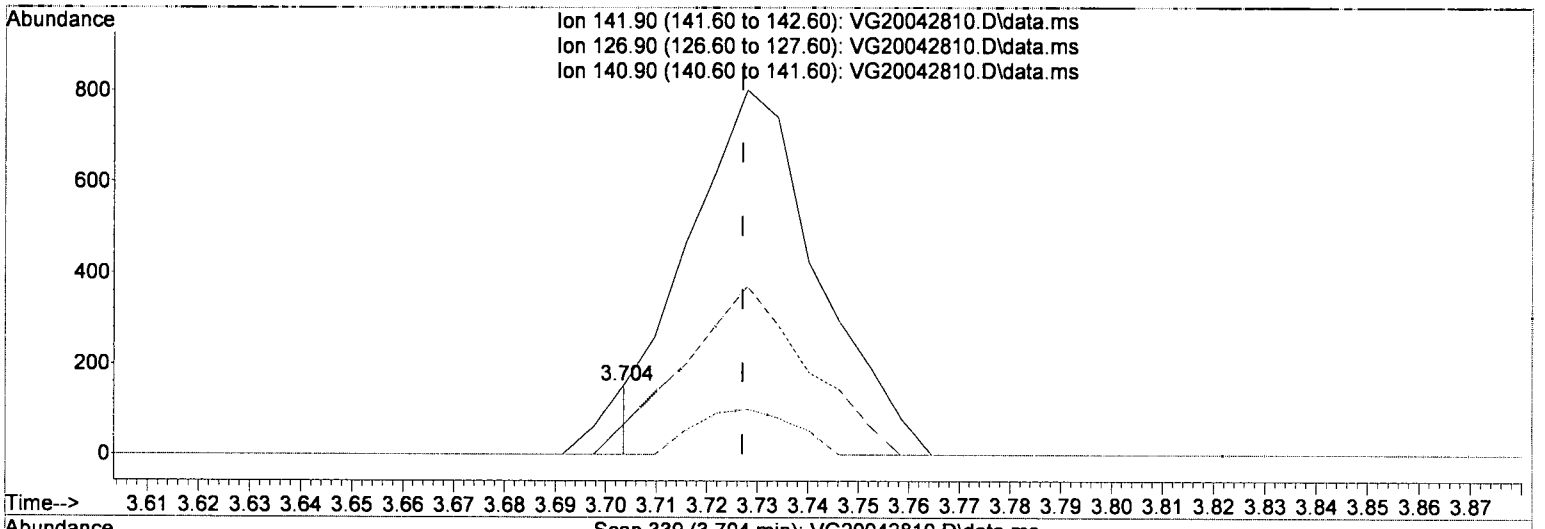
Intercept LMR
4/30/2021

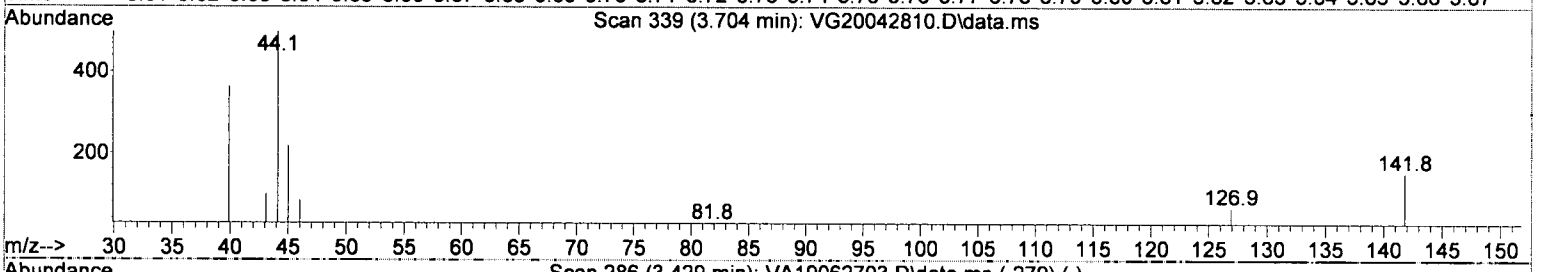
R = 7.77e-002 A*A + 3.95e-001 A - 3.87e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:24:07 2020

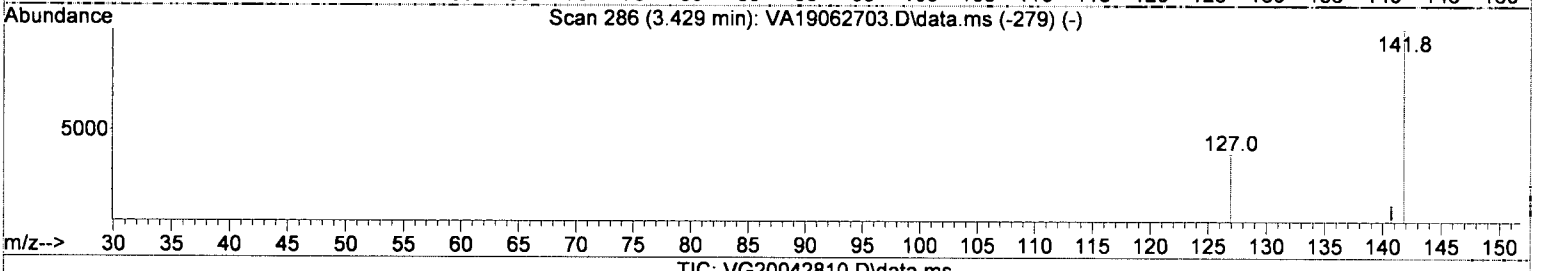
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 30 09:26:42 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







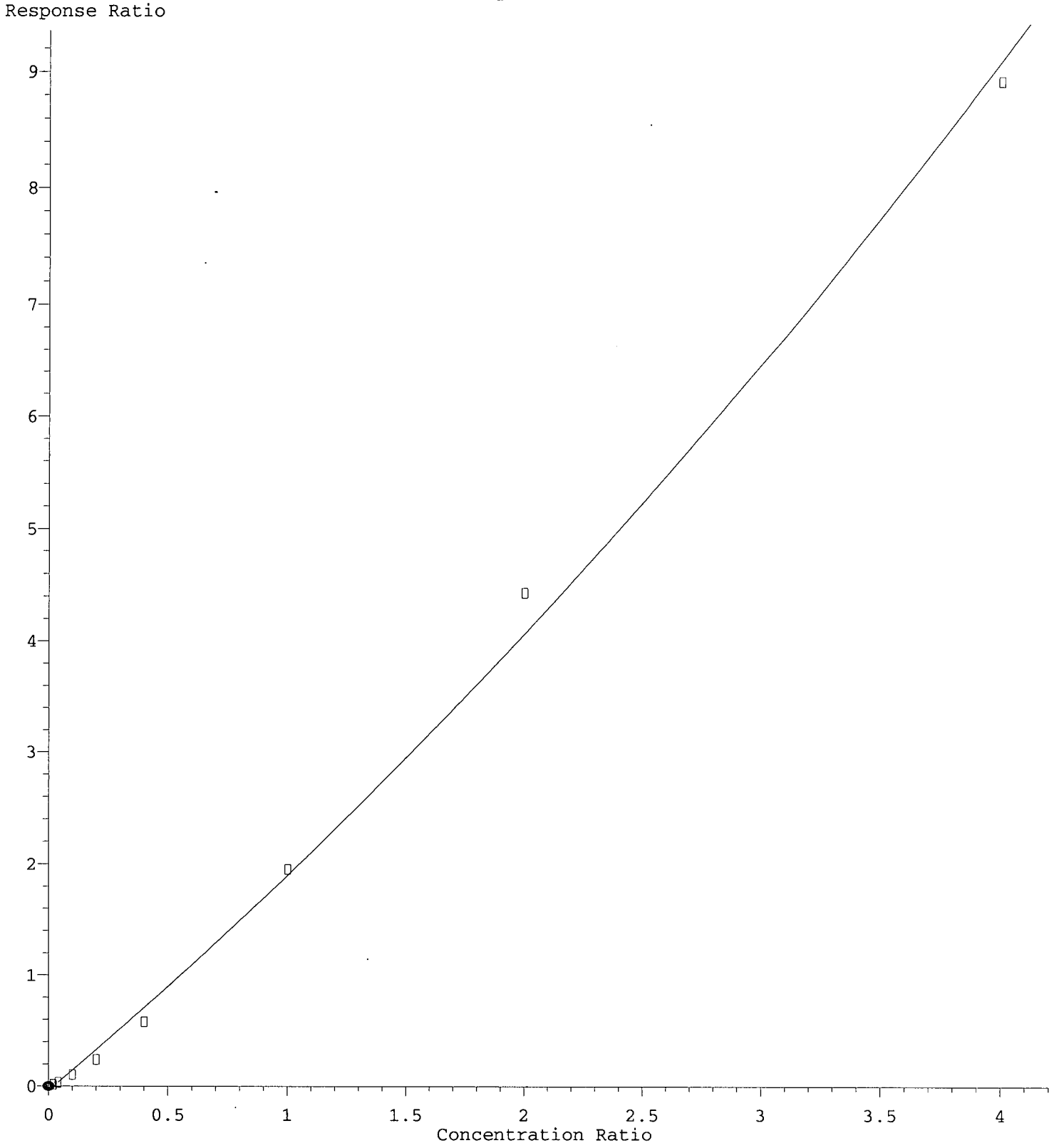
TIC: VG20042810.D\data.ms

(12) Iodomethane

3.704min (-0.023) 4.88 ug/L m

response 78

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	34.80	43.79
140.90	15.30	0.00
0.00	0.00	0.00



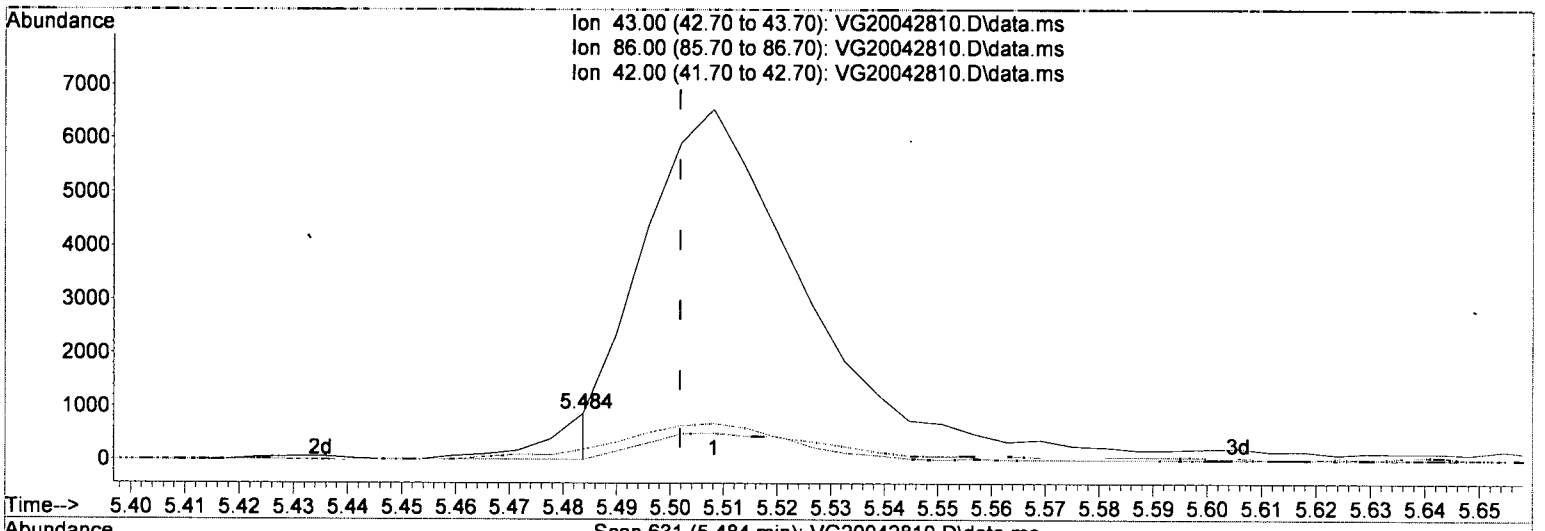
Intercept CMDR
4/30/20/mf

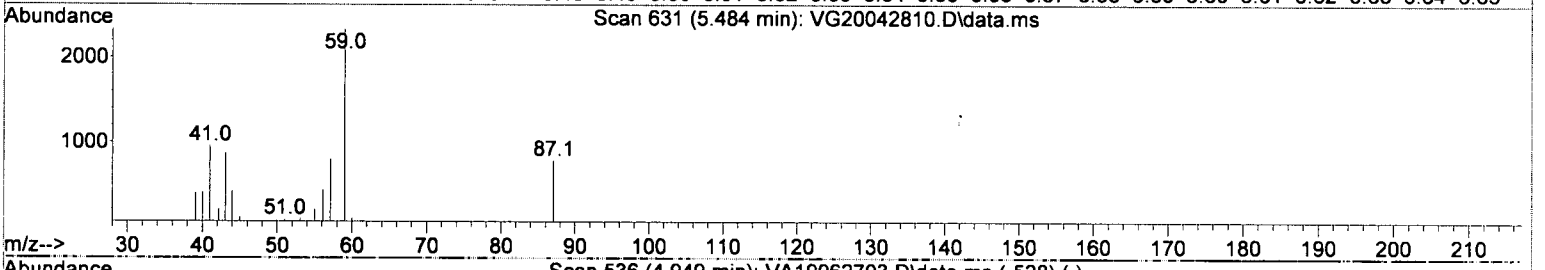
R = 1.14e-001 A*A + 1.83e+000 A - 4.13e-002
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:27:34 2020

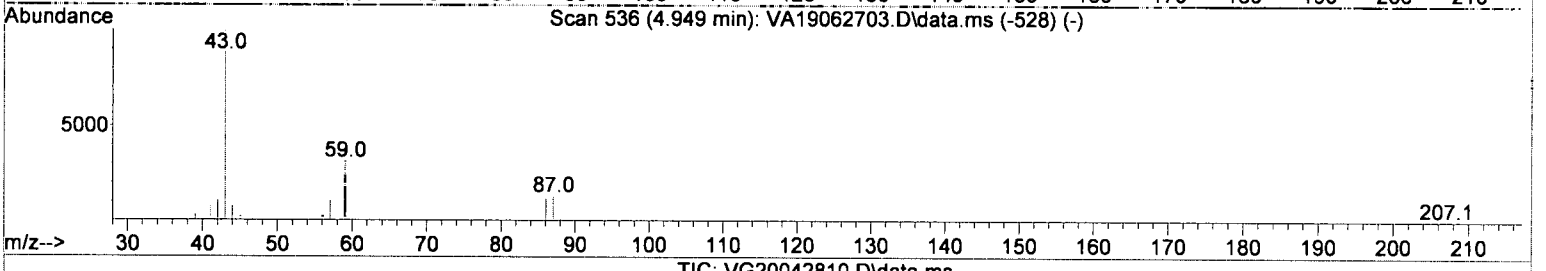
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 30 09:26:42 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







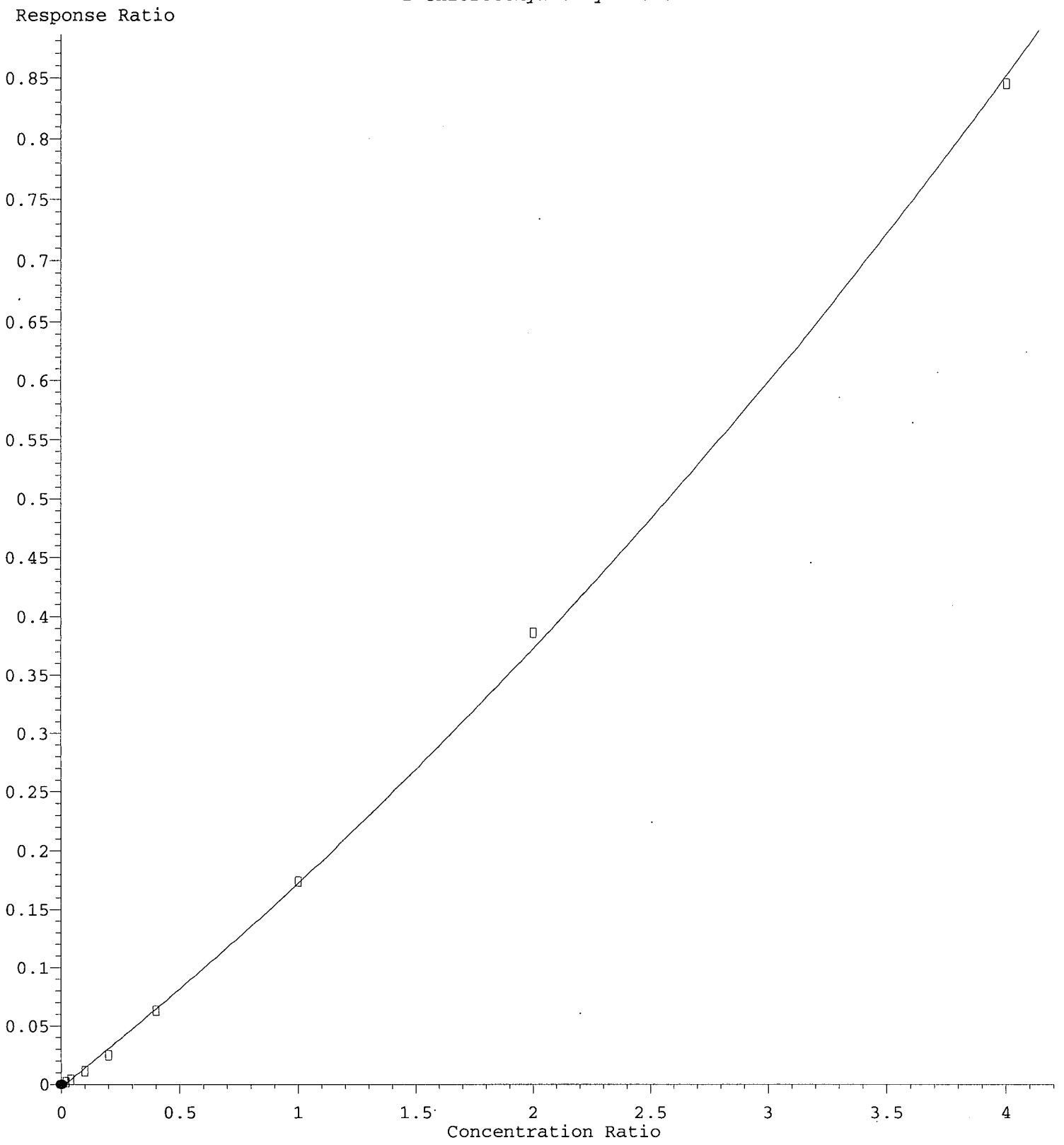
TIC: VG20042810.D\data.ms

(23) Vinyl Acetate

5.484min (-0.018) 1.24 ug/L m

response 585

Ion	Exp%	Act%
43.00	100.00	100.00
86.00	10.60	0.00
42.00	8.70	22.41
0.00	0.00	0.00



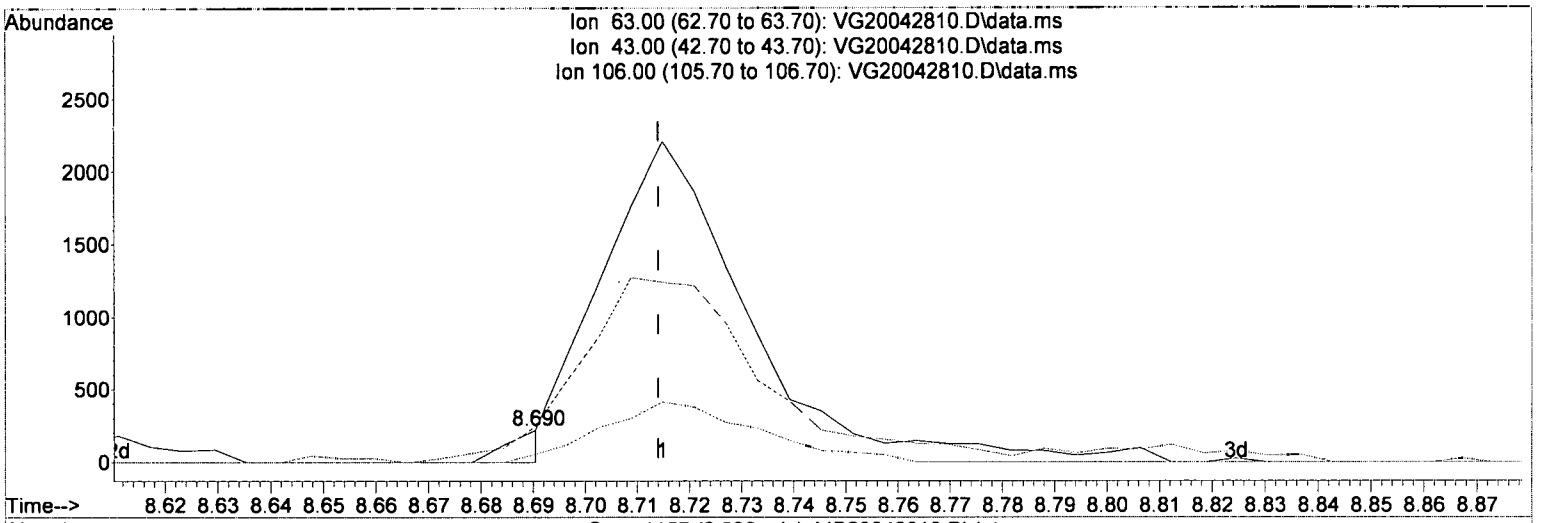
Intercept LMDR
4/30/2021

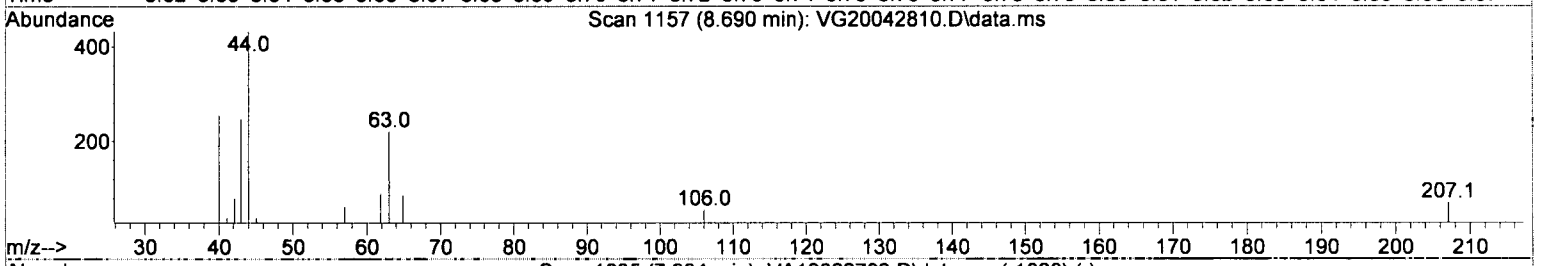
R = 1.29e-002 A*A + 1.62e-001 A - 2.43e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:44:50 2020

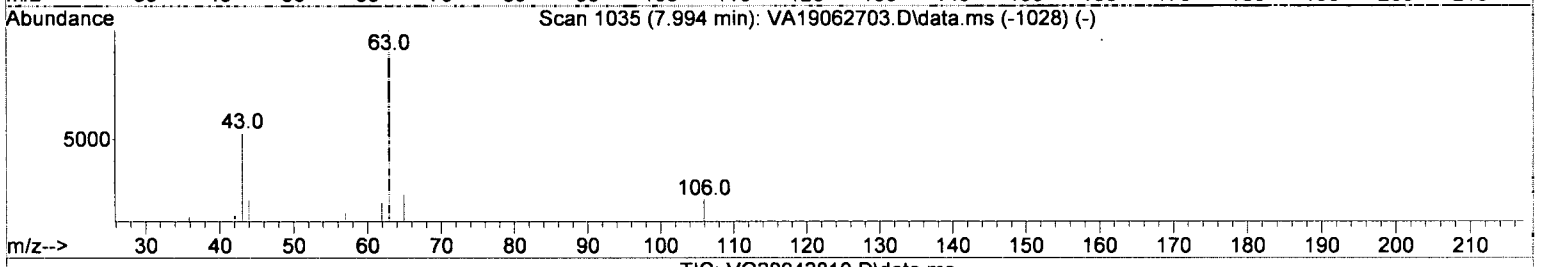
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 30 09:26:42 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







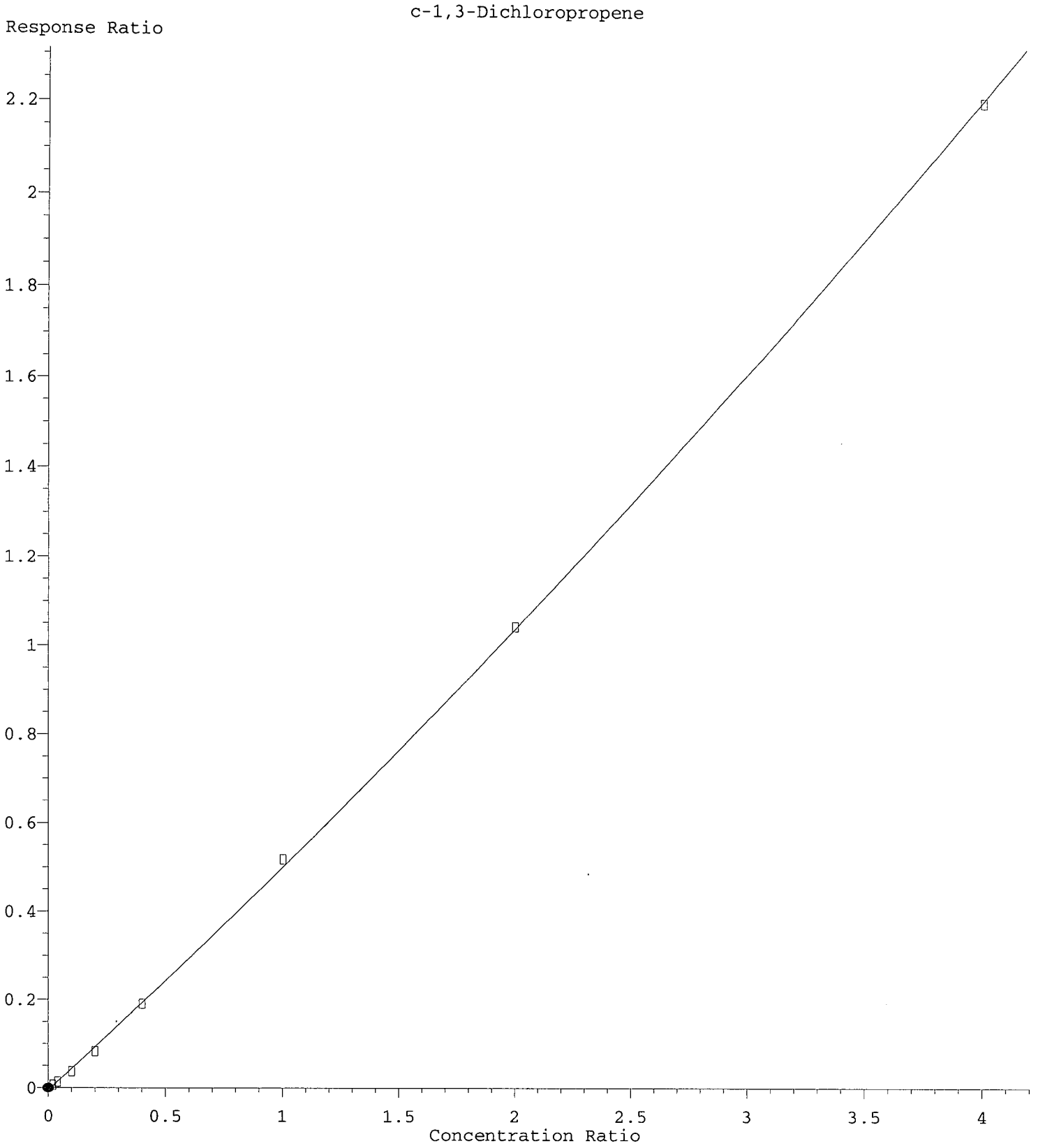
TIC: VG20042810.D\data.ms

(46) 2-Chloroethyl Vinyl Ether

8.690min (-0.024) 0.85 ug/L m

response 124

Ion	Exp%	Act%
63.00	100.00	100.00
43.00	282.80	112.22#
106.00	0.00	25.34
0.00	0.00	0.00



Intercept > MDL

MDL ↑ MRL ↑

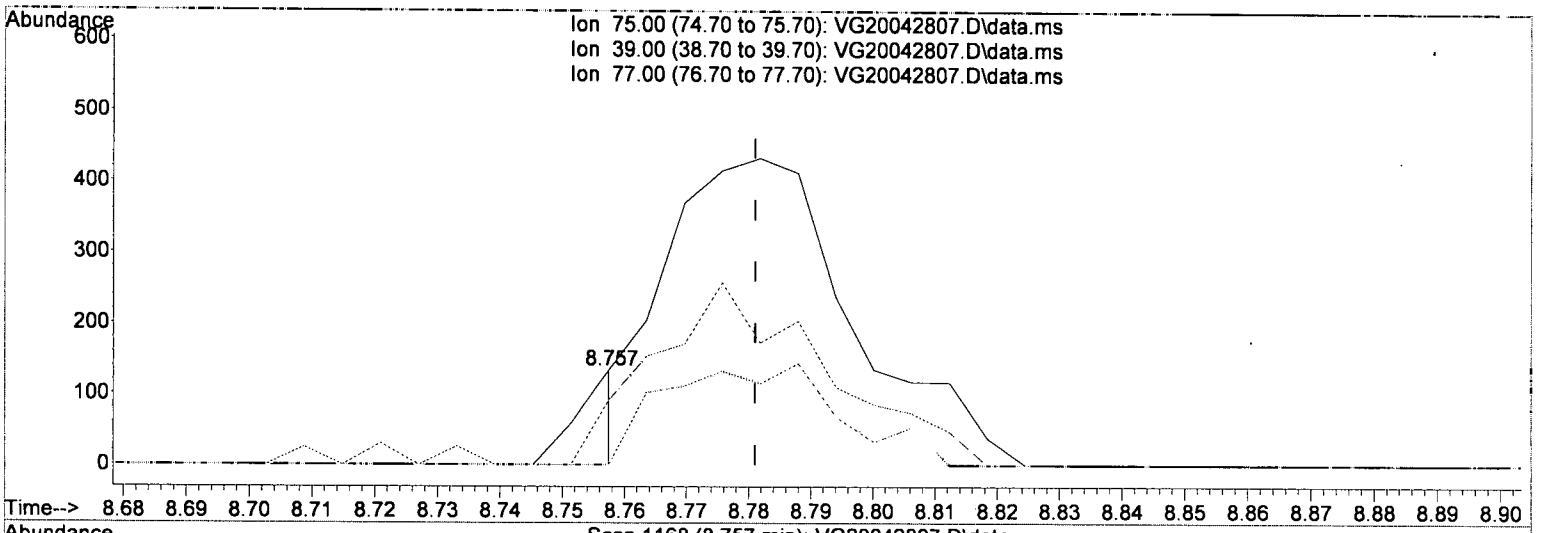
1ppb/2ppb

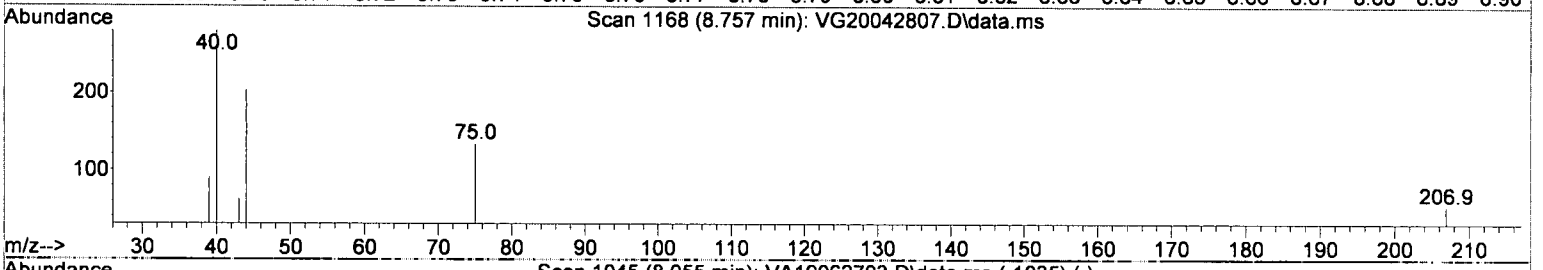
R = 1.59e-002 A*A + 4.90e-001 A - 5.76e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:49:14 2020

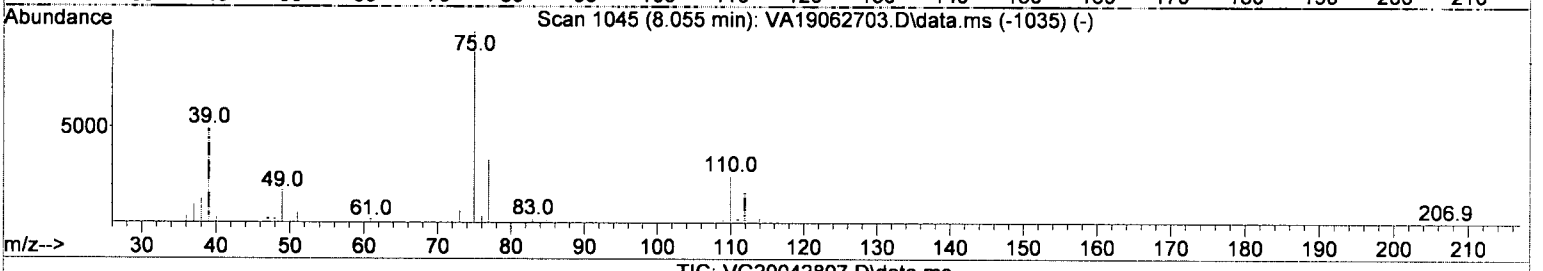
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







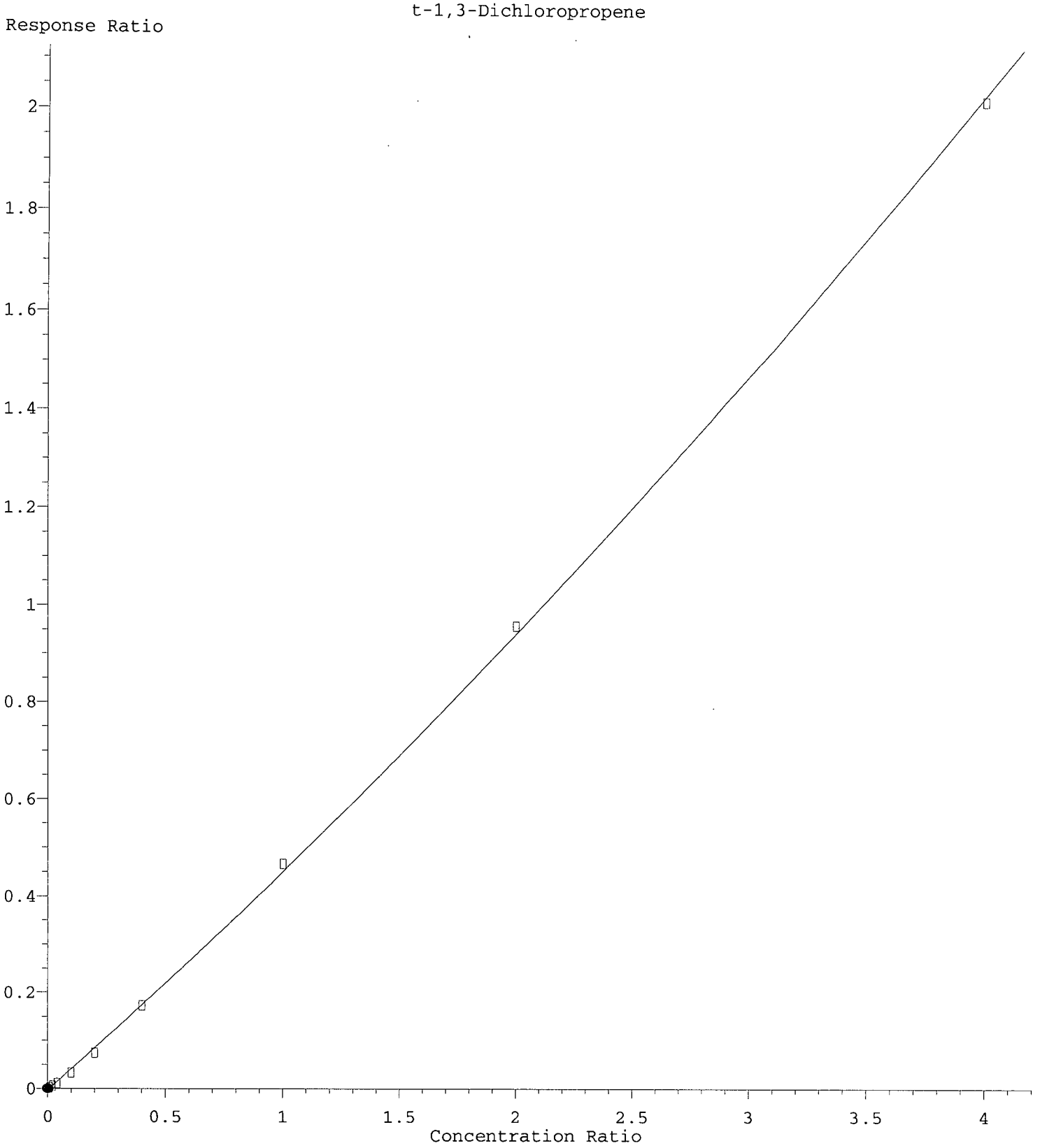
TIC: VG20042807.D\data.ms

(47) c-1,3-Dichloropropene

8.757min (-0.024) 0.61 ug/L m

response 70

Ion	Exp%	Act%
75.00	100.00	100.00
39.00	50.30	67.91
77.00	31.90	0.00#
0.00	0.00	0.00



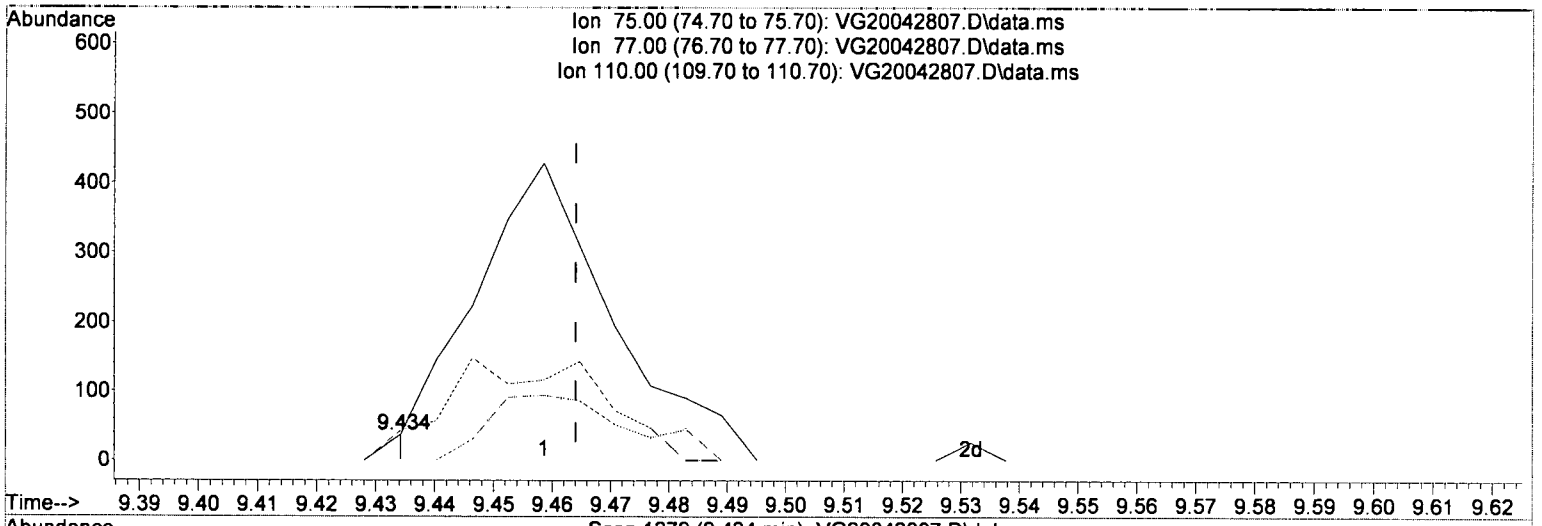
Intercept LMDL
4/30/2020

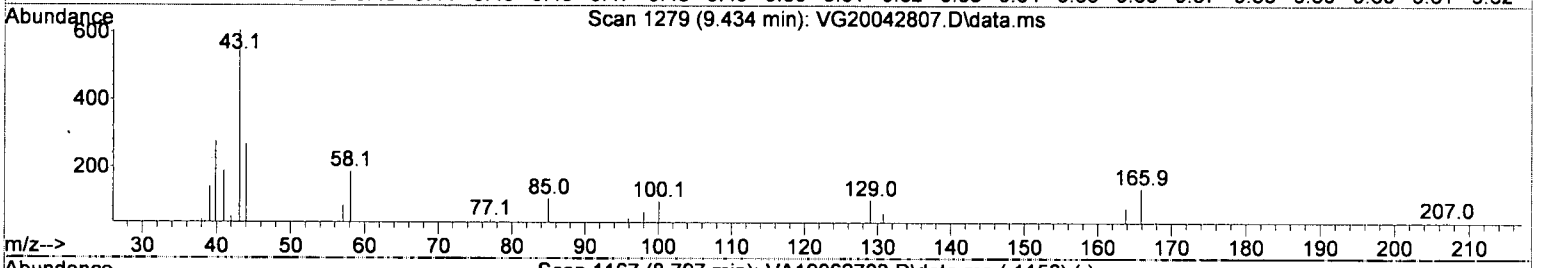
R = 1.86e-002 A*A + 4.34e-001 A - 3.03e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:51:43 2020

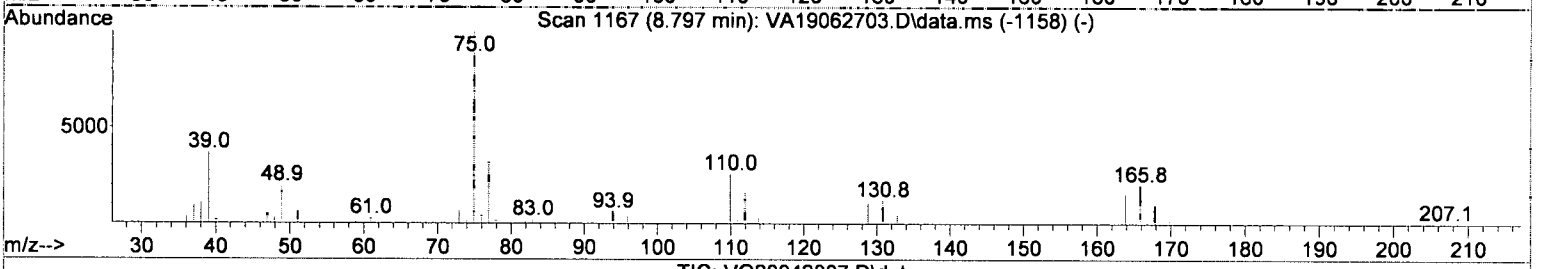
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







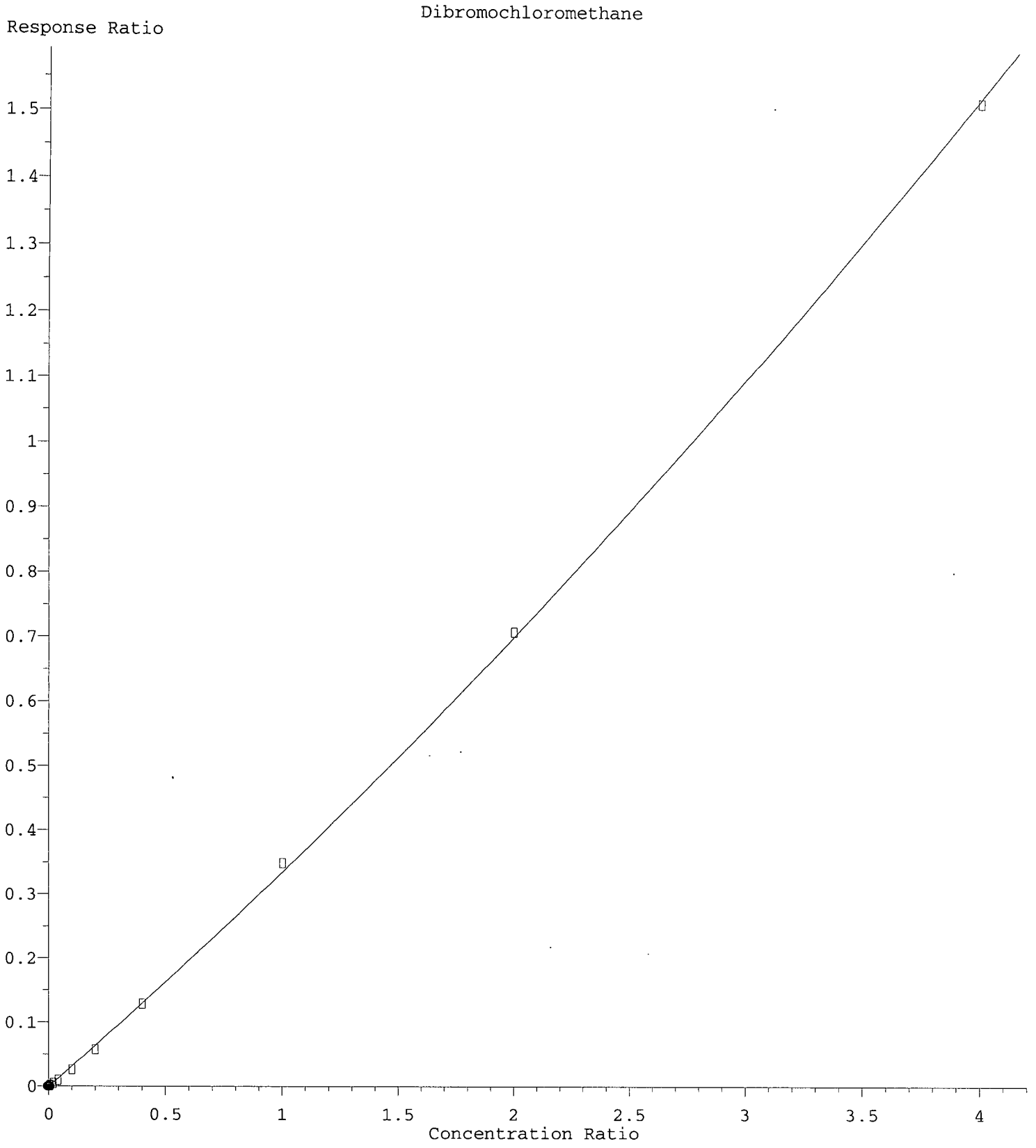
TIC: VG20042807.D\data.ms

(52) t-1,3-Dichloropropene

9.434min (-0.030) 0.35 ug/L m

response 14

Ion	Exp%	Act%
75.00	100.00	100.00
77.00	33.20	116.22#
110.00	25.60	0.00
0.00	0.00	0.00



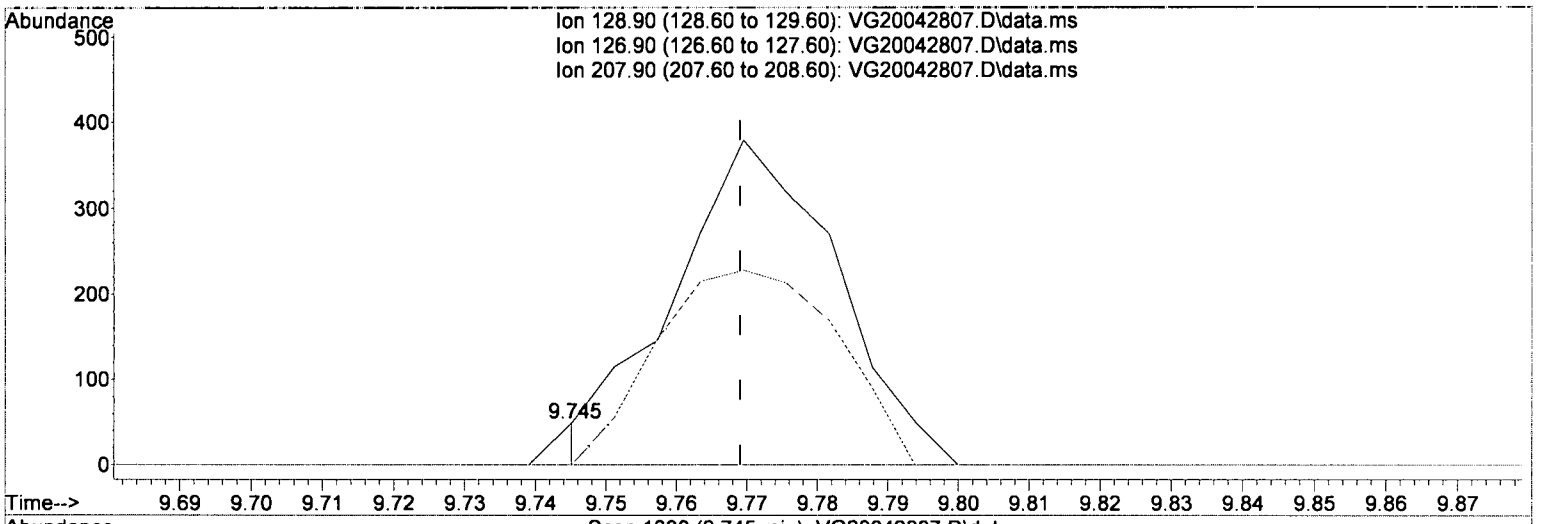
Intercept CMDR
4/30/2021

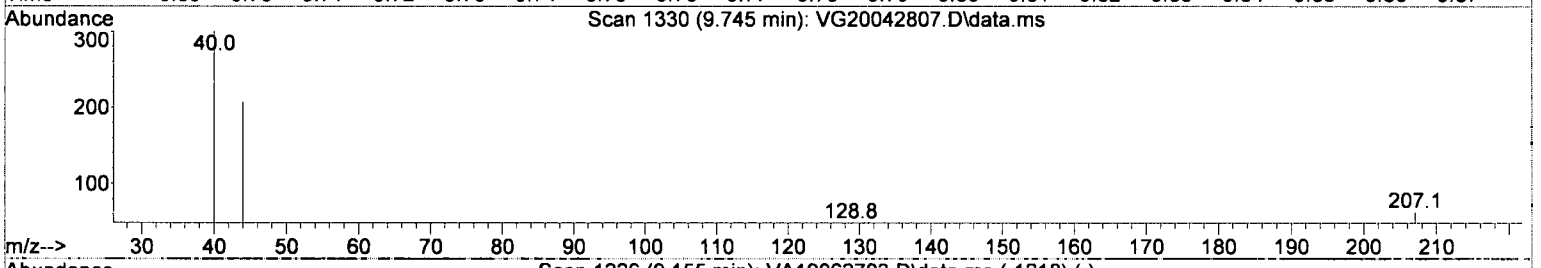
R = 1.52e-002 A*A + 3.20e-001 A - 1.03e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/x)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:54:09 2020

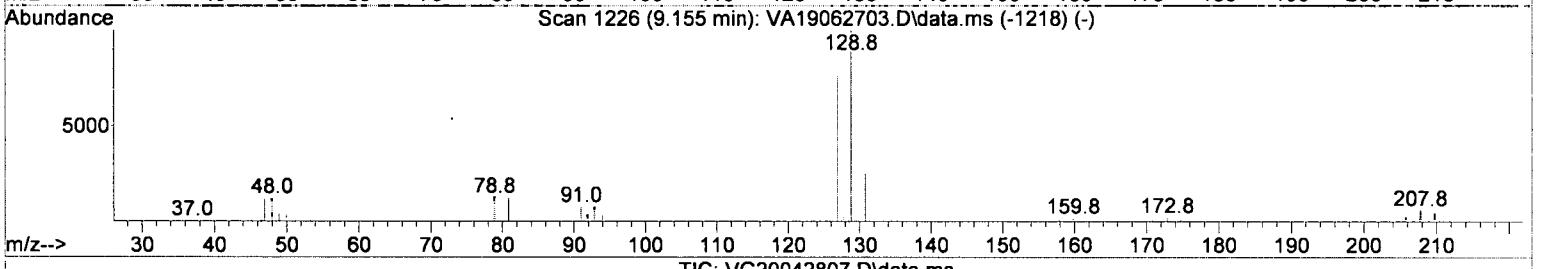
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







TIC: VG20042807.D\data.ms

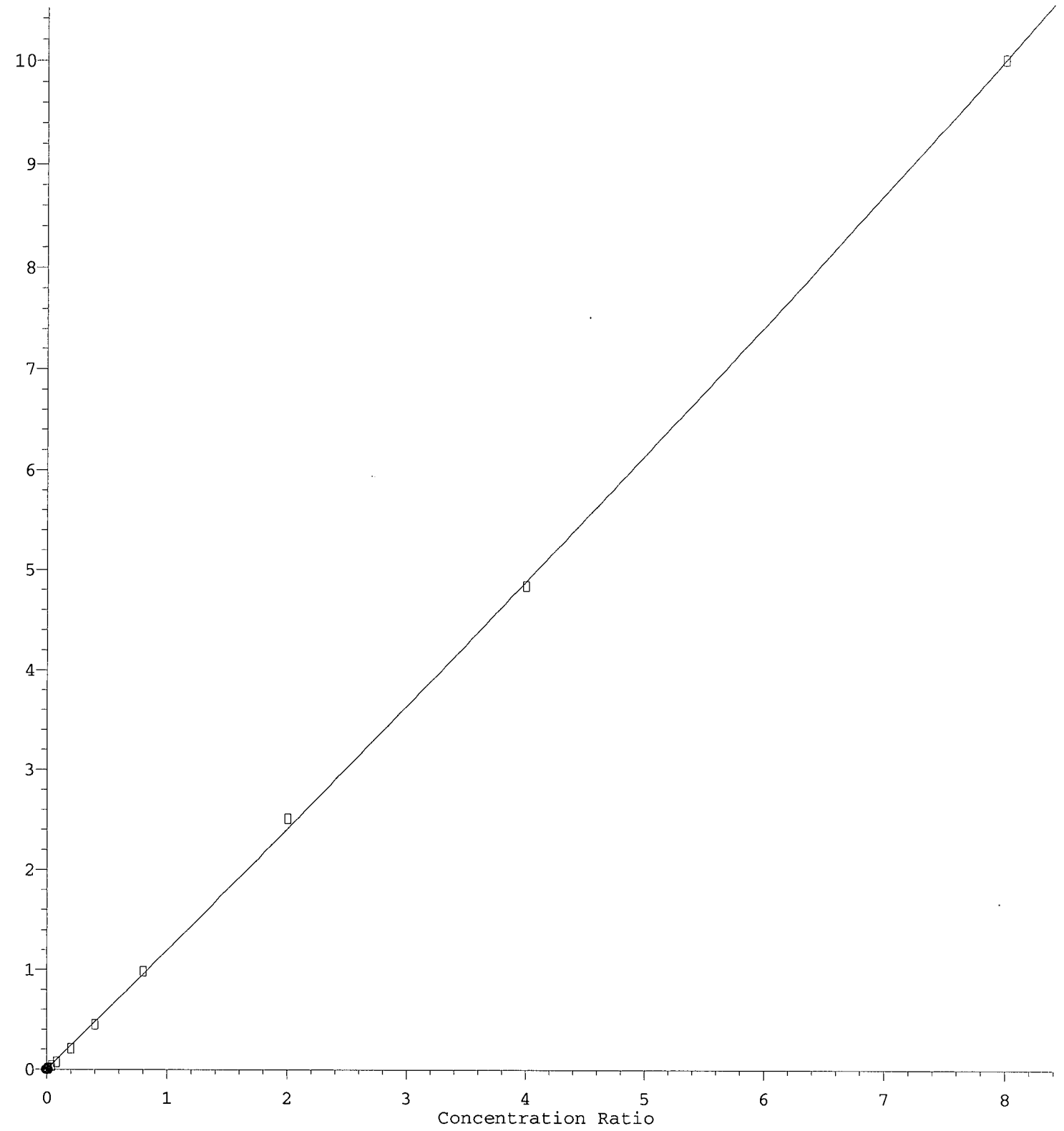
(54) Dibromochloromethane

9.745min (-0.024) 0.17 ug/L m

response 18

Ion	Exp%	Act%
128.90	100.00	100.00
126.90	77.40	0.00#
207.90	7.30	0.00
0.00	0.00	0.00

m,p-Xylenes (2)



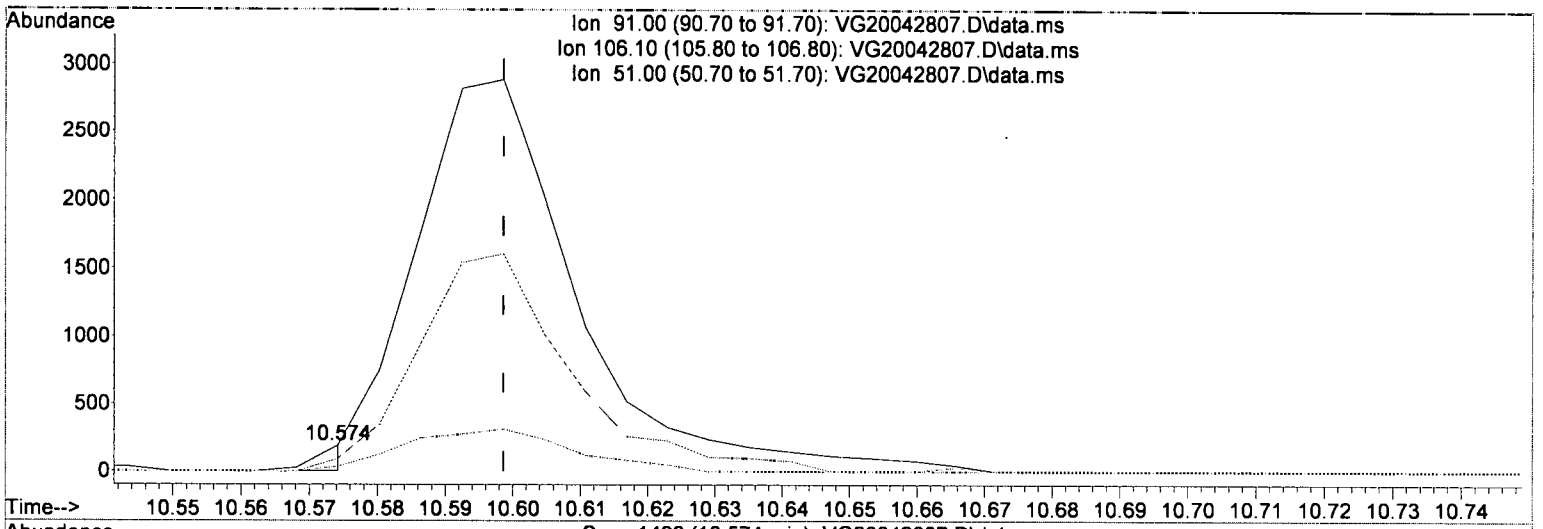
Intercept LMDL
4/30/2021

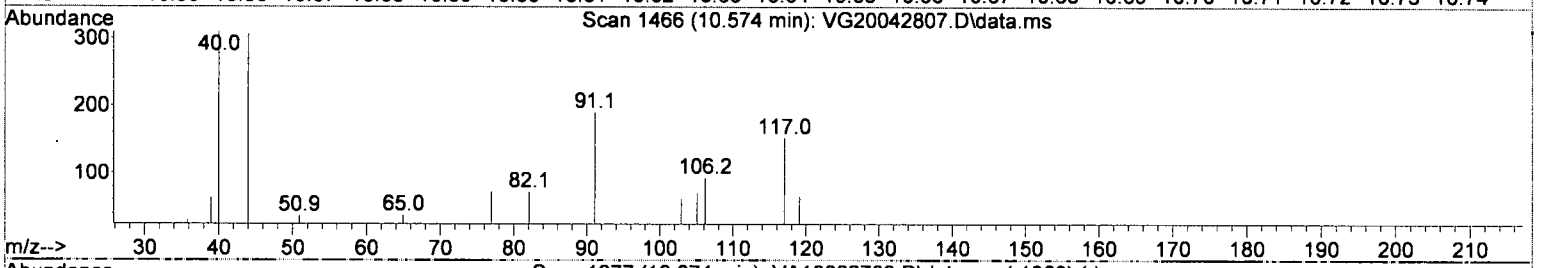
R = 7.15e-003 A*A + 1.19e+000 A - 3.33e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:04:43 2020

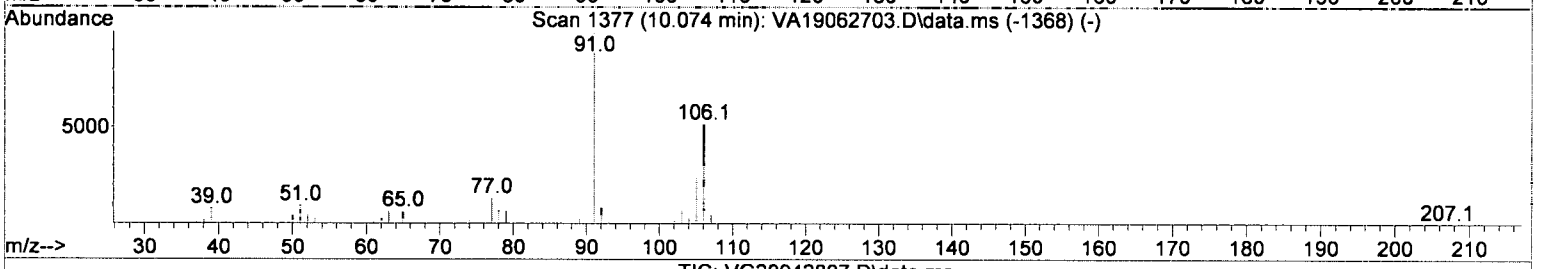
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







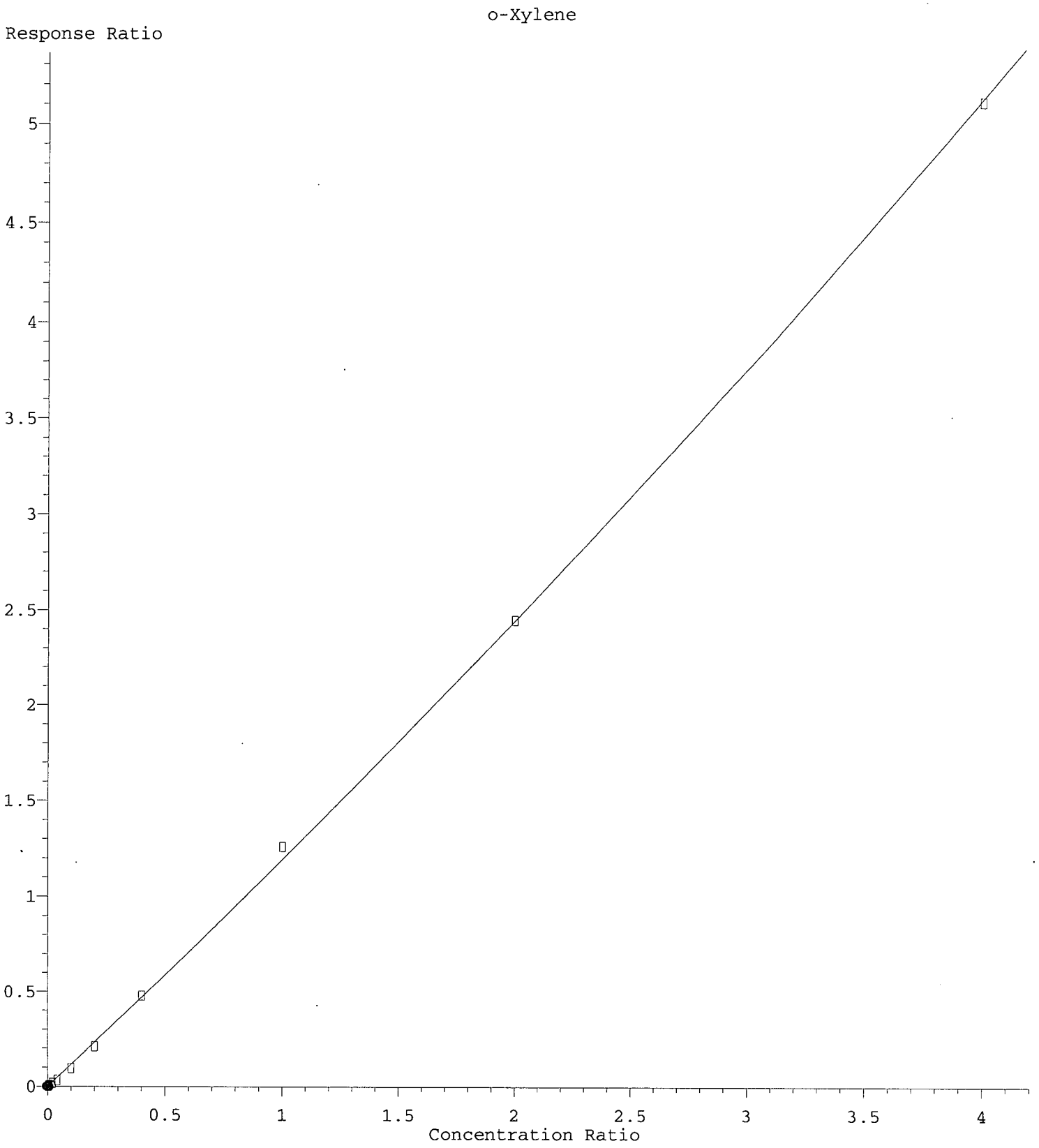
TIC: VG20042807.D\data.ms

(61) m,p-Xylenes (2)

10.574min (-0.024) 0.15 ug/L m

response 79

Ion	Exp%	Act%
91.00	100.00	100.00
106.10	51.80	48.95
51.00	9.80	18.95
0.00	0.00	0.00



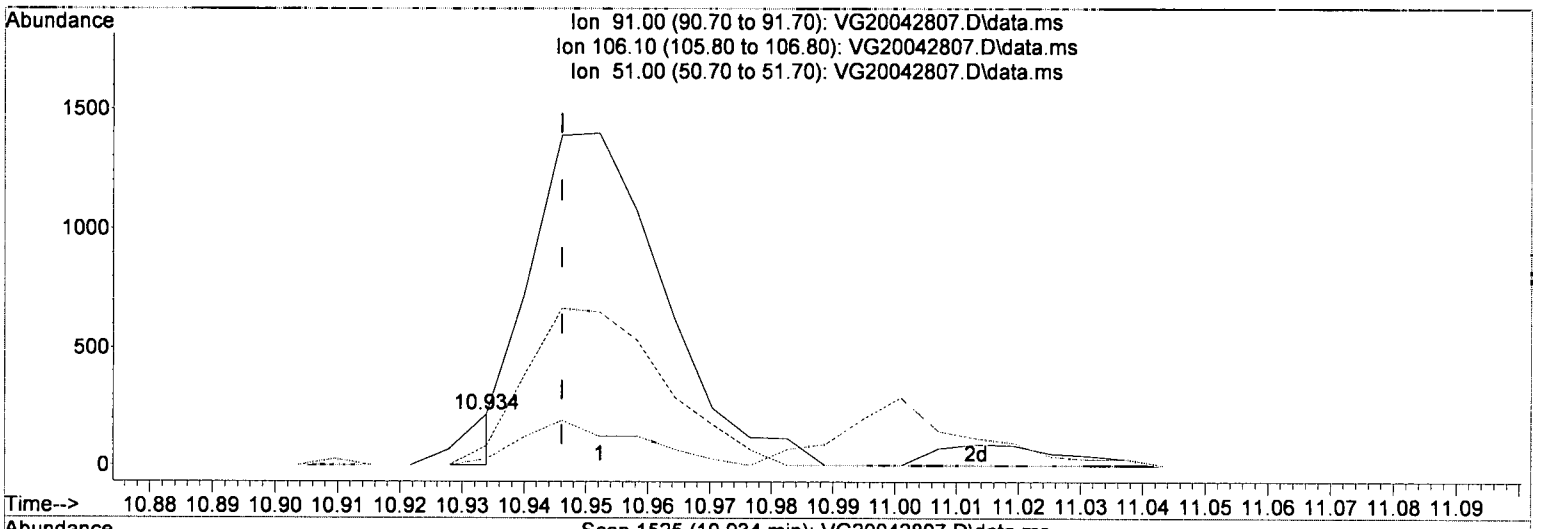
Intercept CMK
4/30/2020

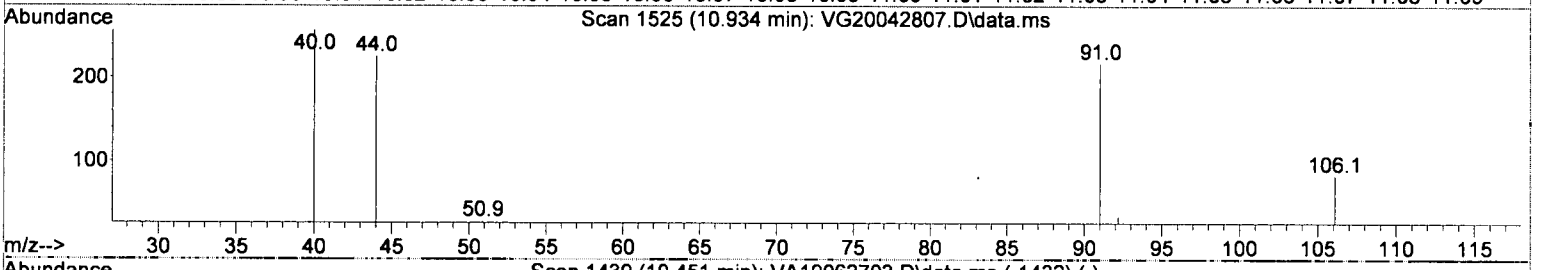
R = 2.81e-002 A*A + 1.17e+000 A - 1.99e-003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:04:43 2020

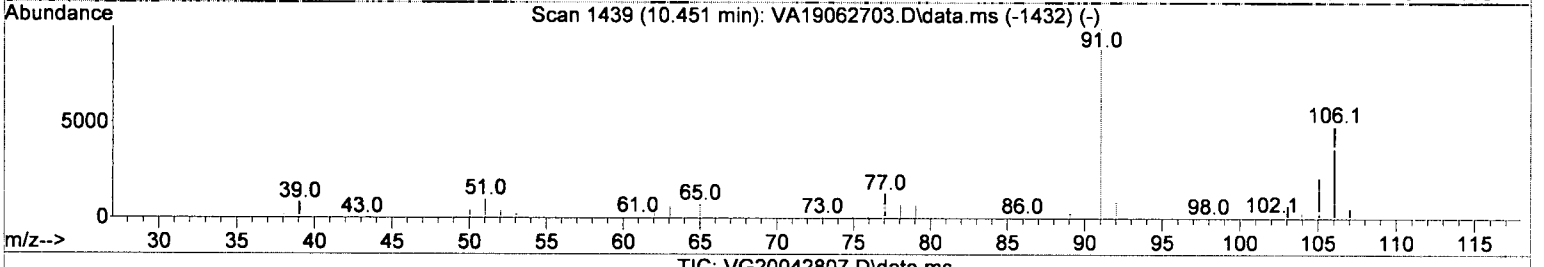
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







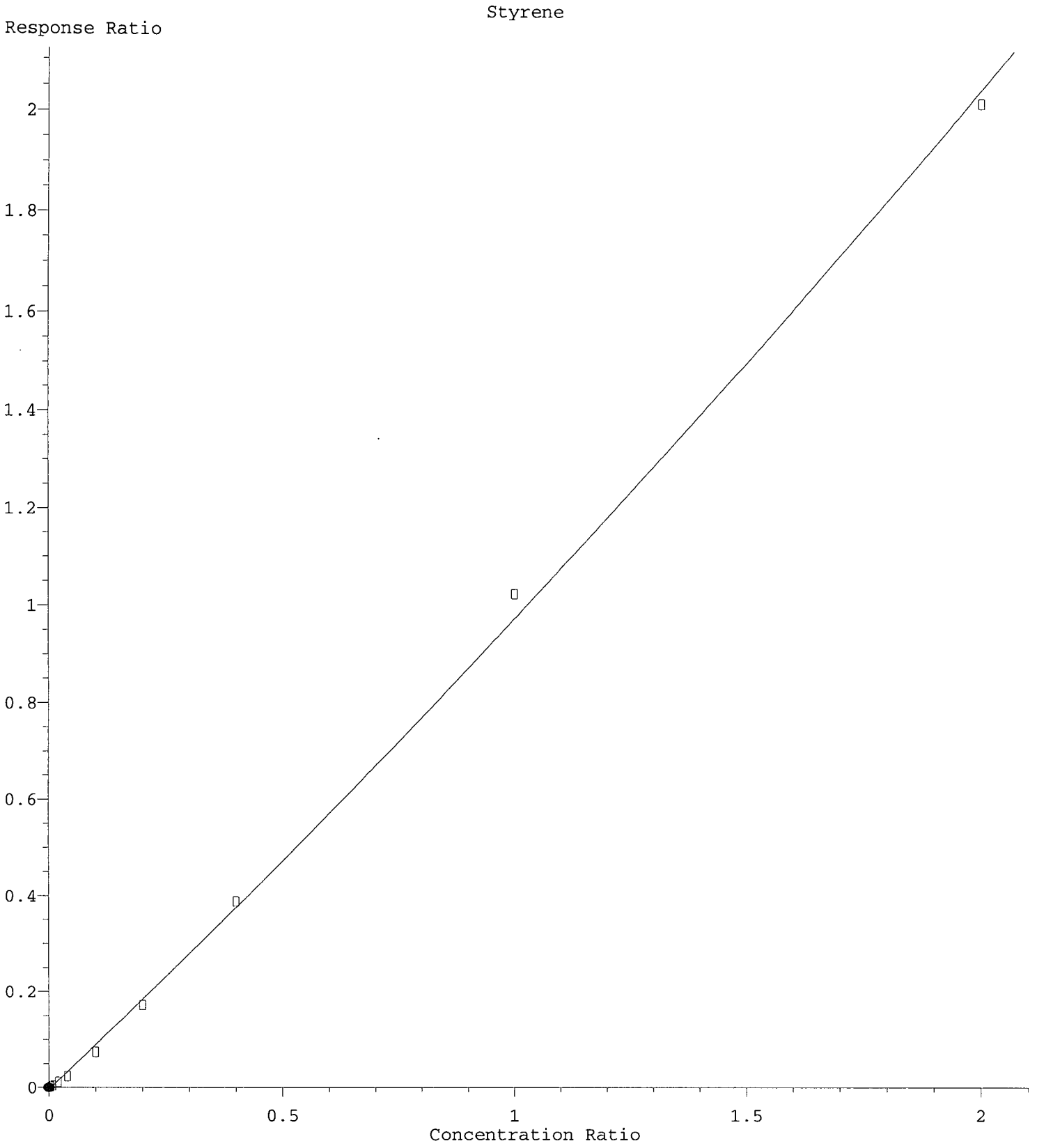
TIC: VG20042807.D\data.ms

(62) o-Xylene

10.934min (-0.012) 0.10 ug/L m

response 105

Ion	Exp%	Act%
91.00	100.00	100.00
106.10	49.80	38.07
51.00	9.70	12.84
0.00	0.00	0.00



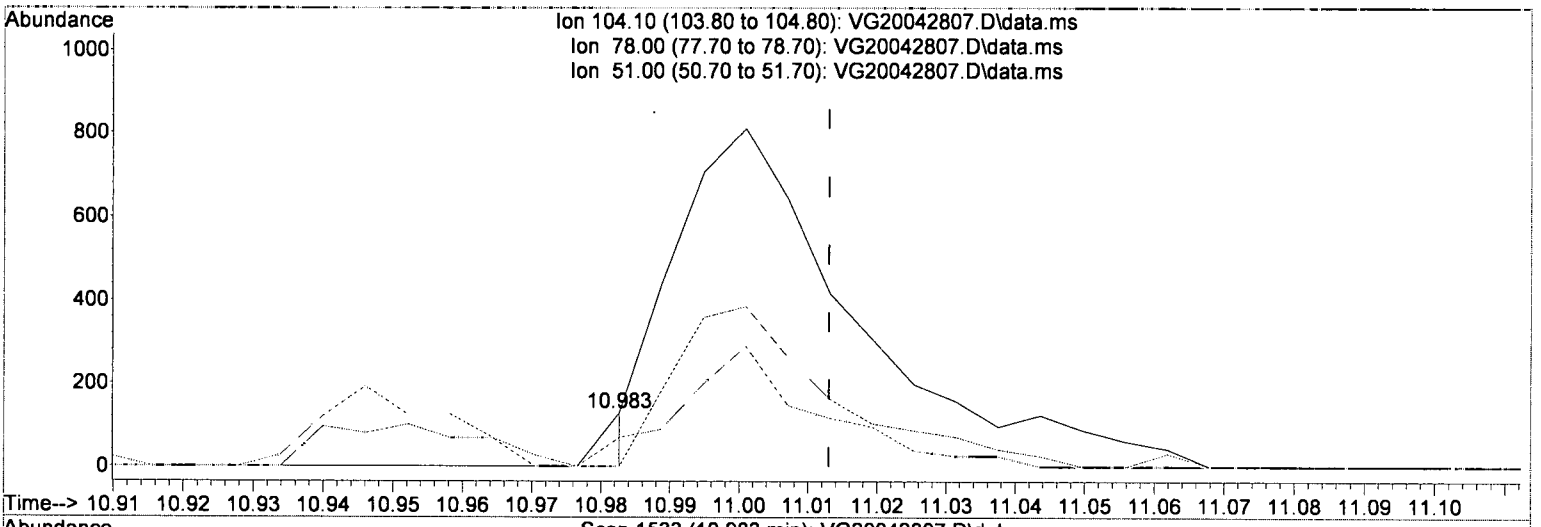
Intercept 2 MDL
4/30/2020

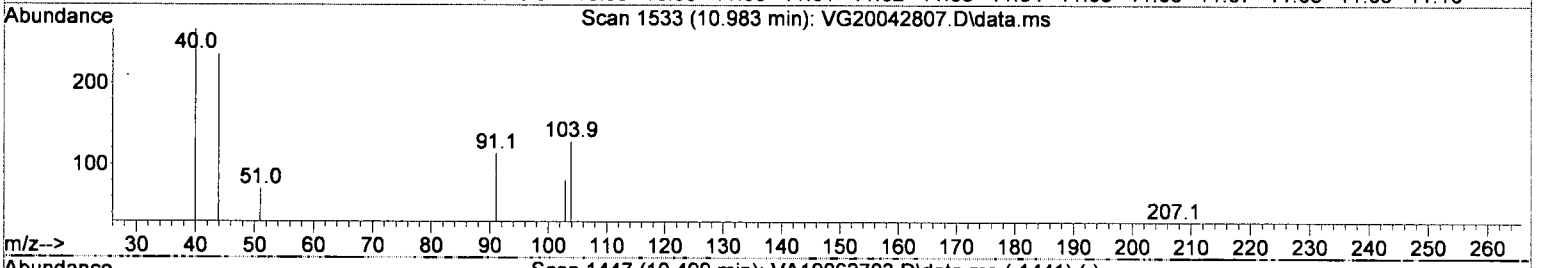
R = 4.90e-002 A*A + 9.27e-001 A - 3.78e-003
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:04:43 2020

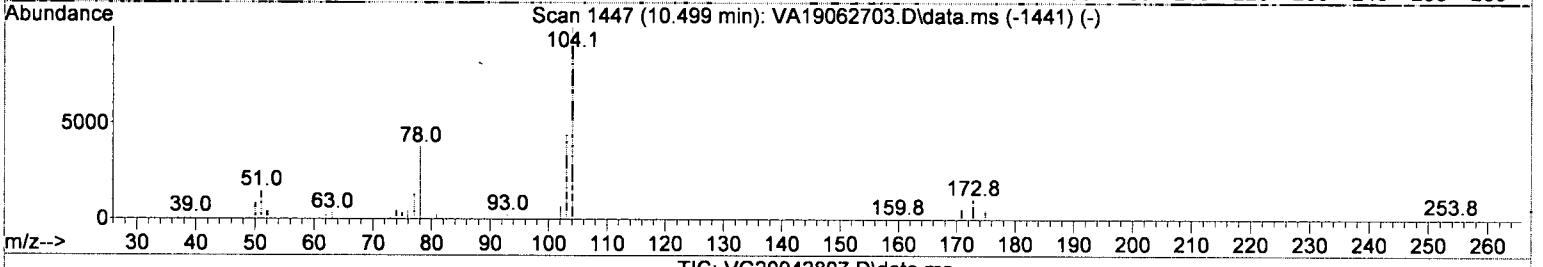
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







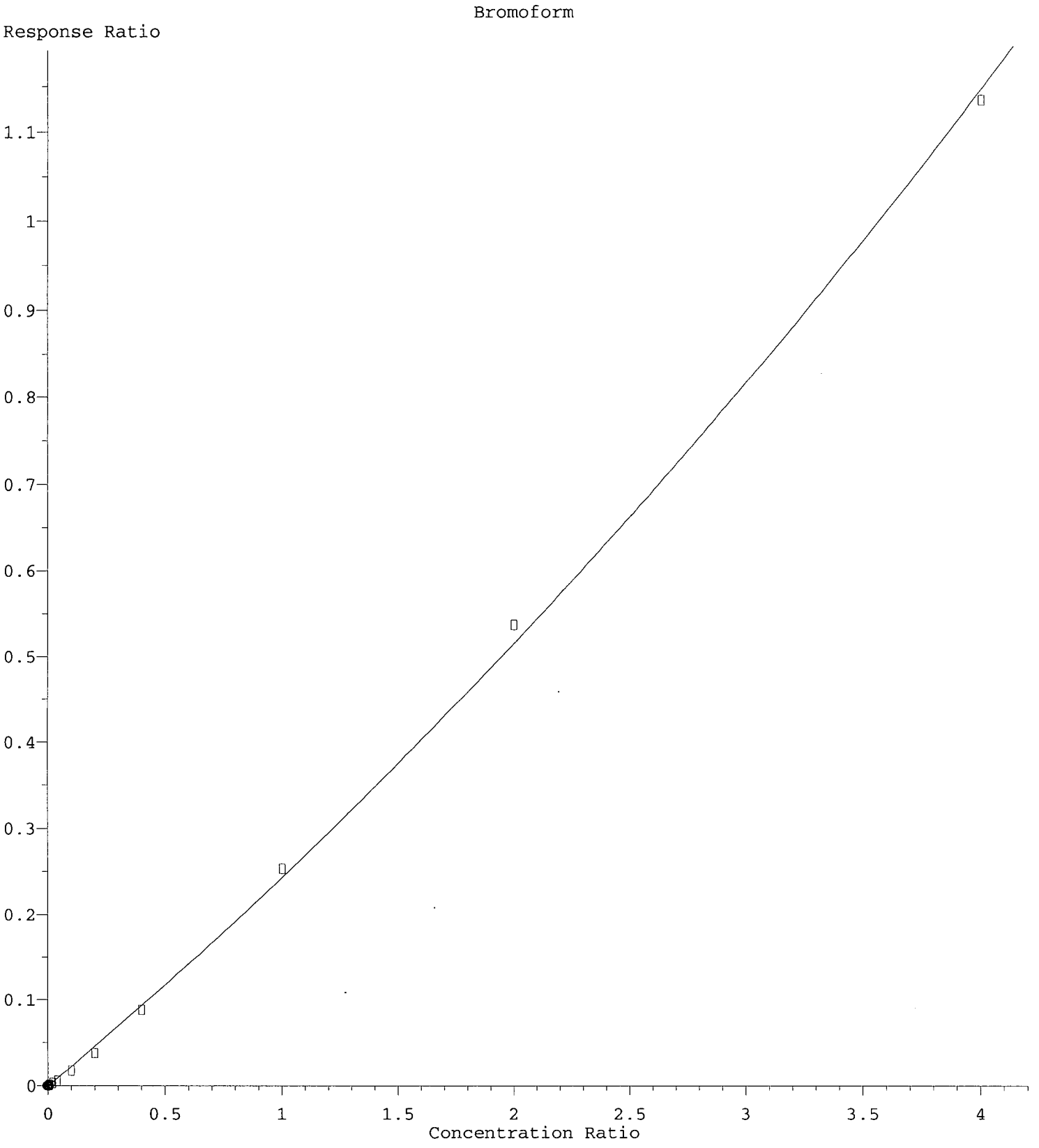
TIC: VG20042807.D\data.ms

(63) Styrene

10.983min (-0.030) 0.21 ug/L m

response 47

Ion	Exp%	Act%
104.10	100.00	100.00
78.00	42.20	0.00#
51.00	24.70	54.26
0.00	0.00	0.00



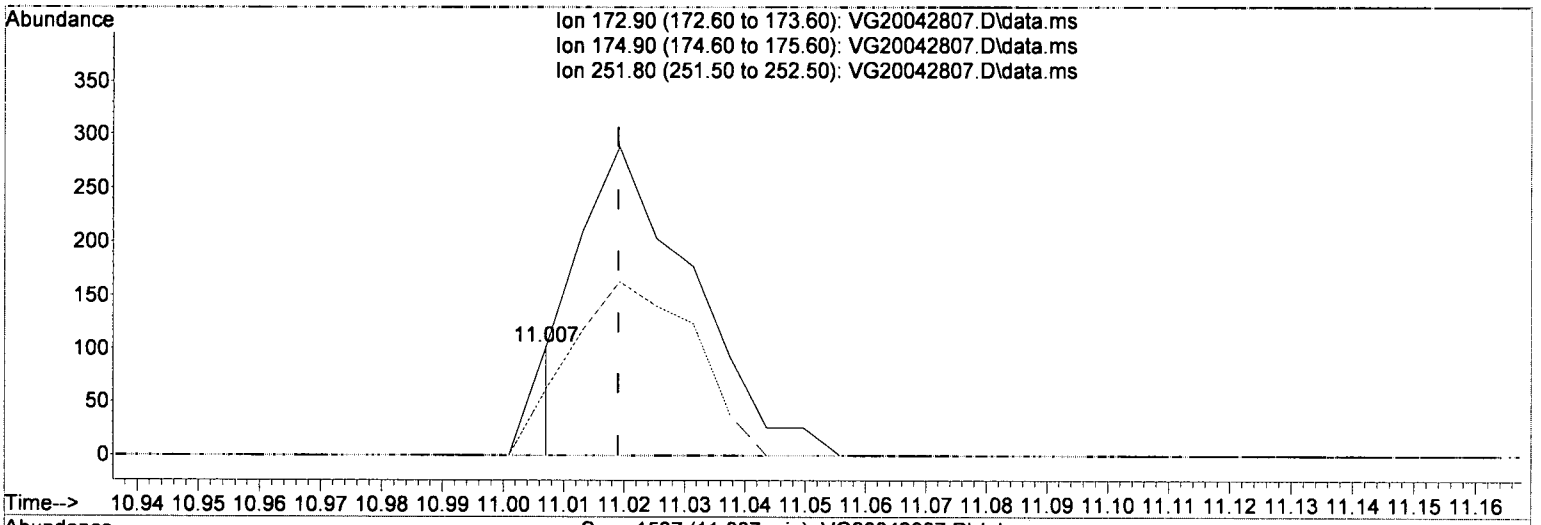
Intercept LMDL
4/30/2020

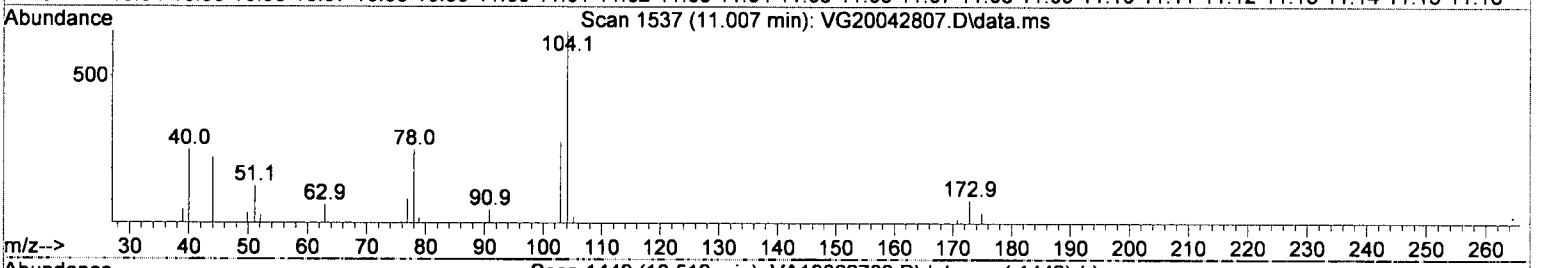
R = 1.44e-002 A*A + 2.29e-001 A - 9.54e-004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:07:21 2020

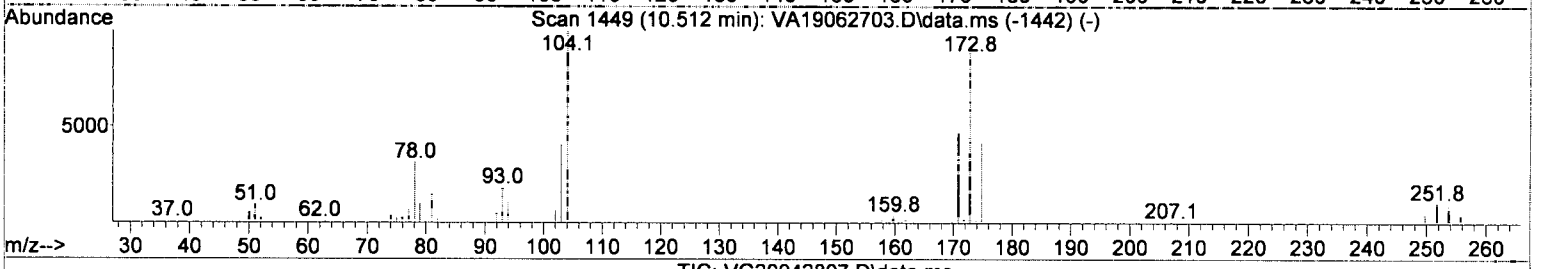
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







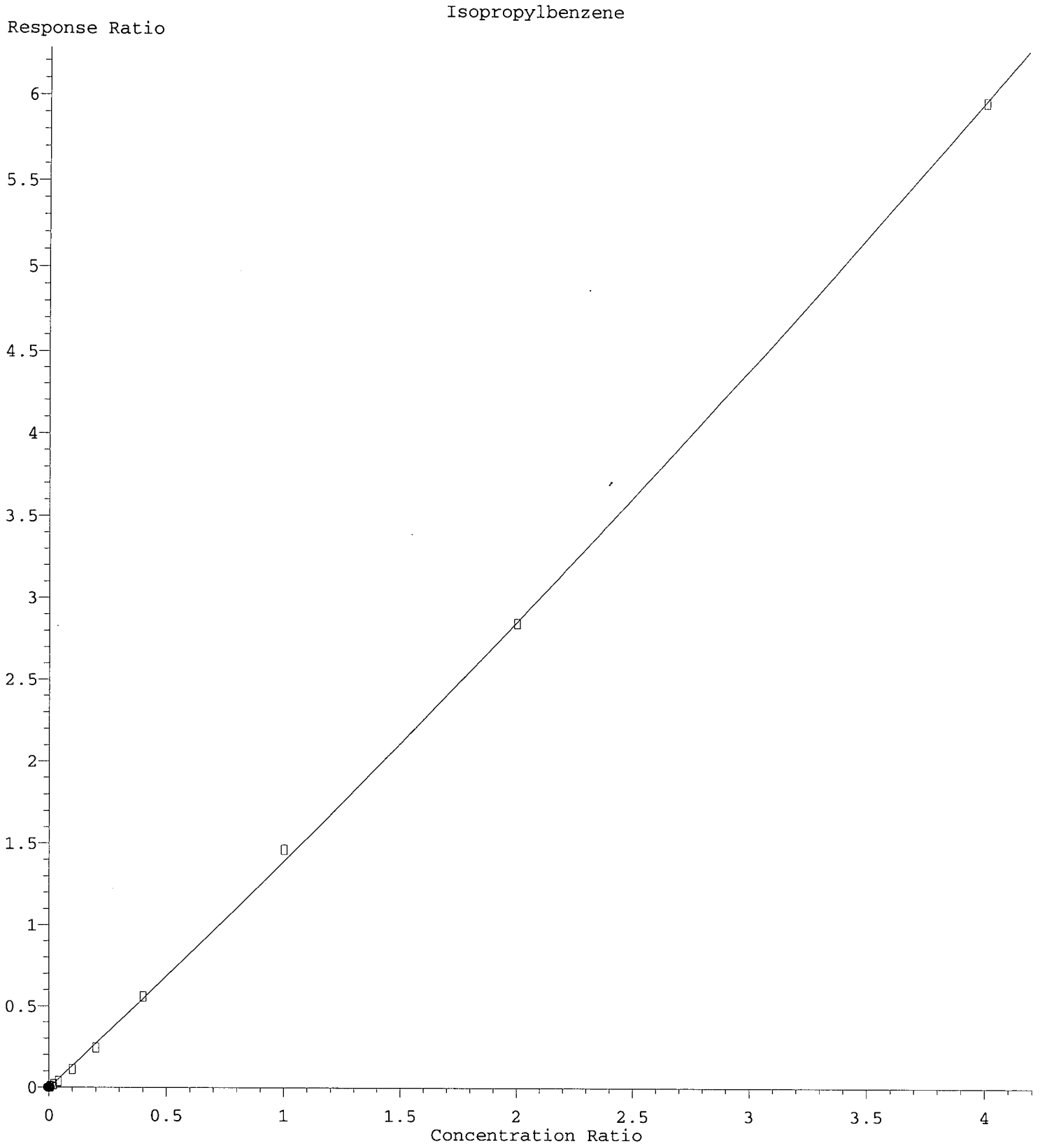
TIC: VG20042807.D\data.ms

(64) Bromoform (P)

11.007min (-0.012) 0.23 ug/L m

response 37

Ion	Exp%	Act%
172.90	100.00	100.00
174.90	48.50	60.78
251.80	13.90	0.00
0.00	0.00	0.00



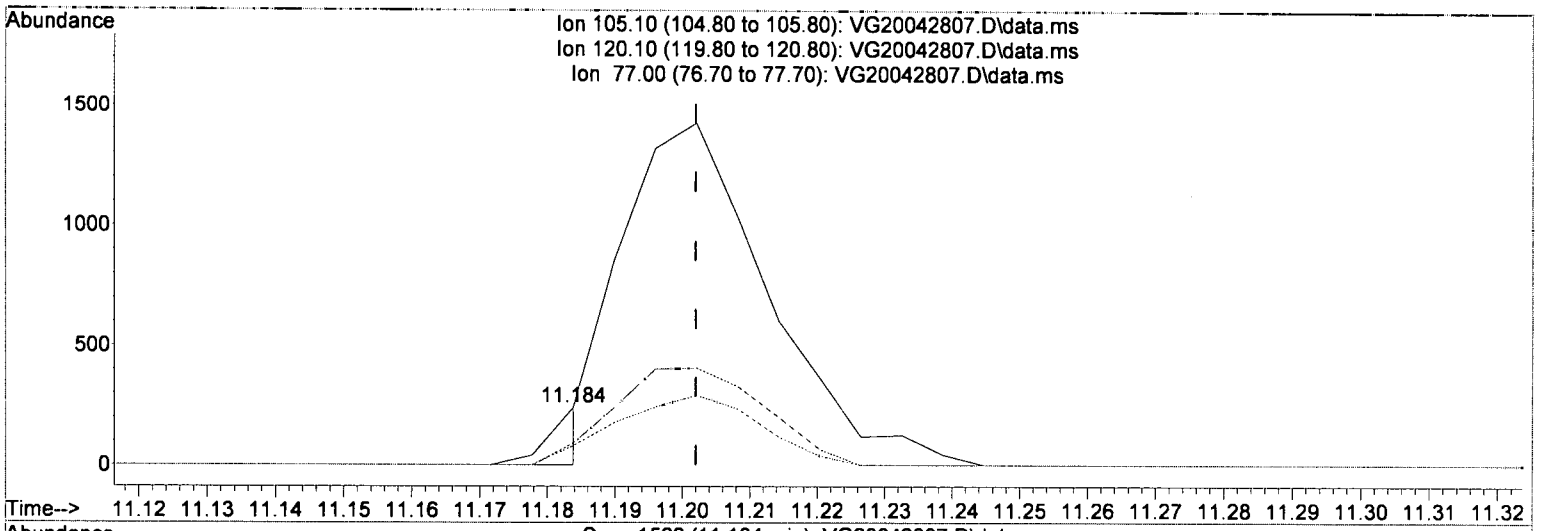
Intercept LMK
4/30/2020

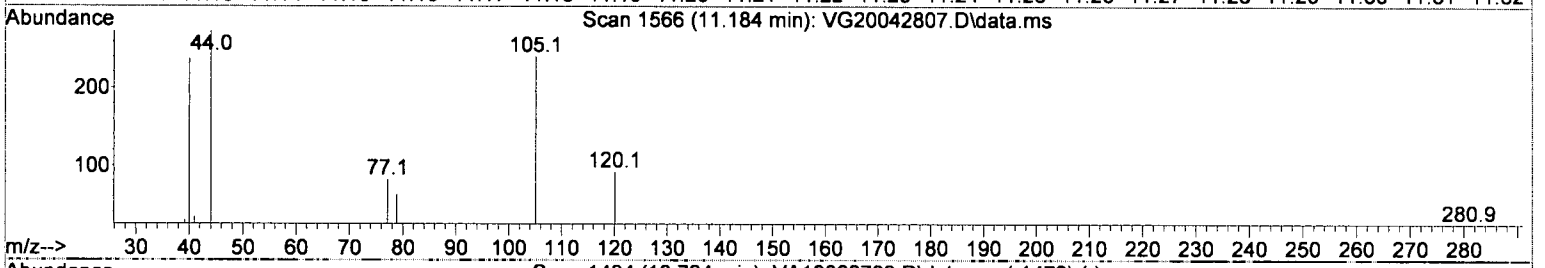
R = 3.40e-002 A*A + 1.36e+000 A - 5:02e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:08:05 2020

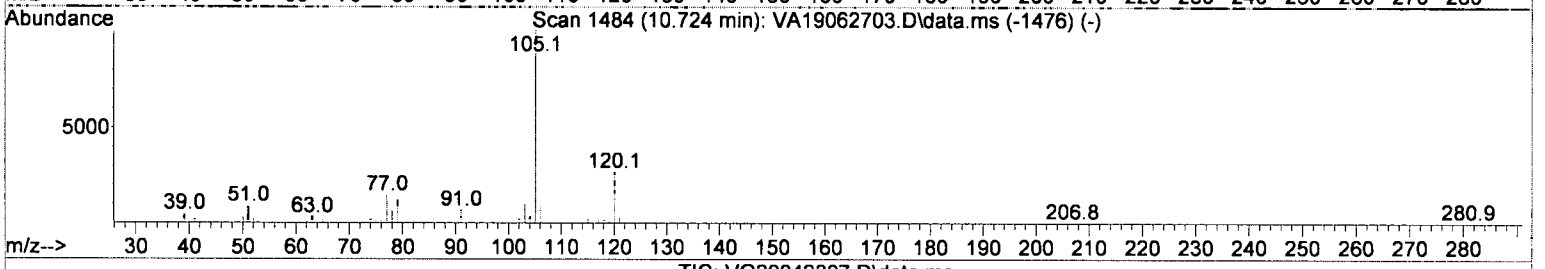
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







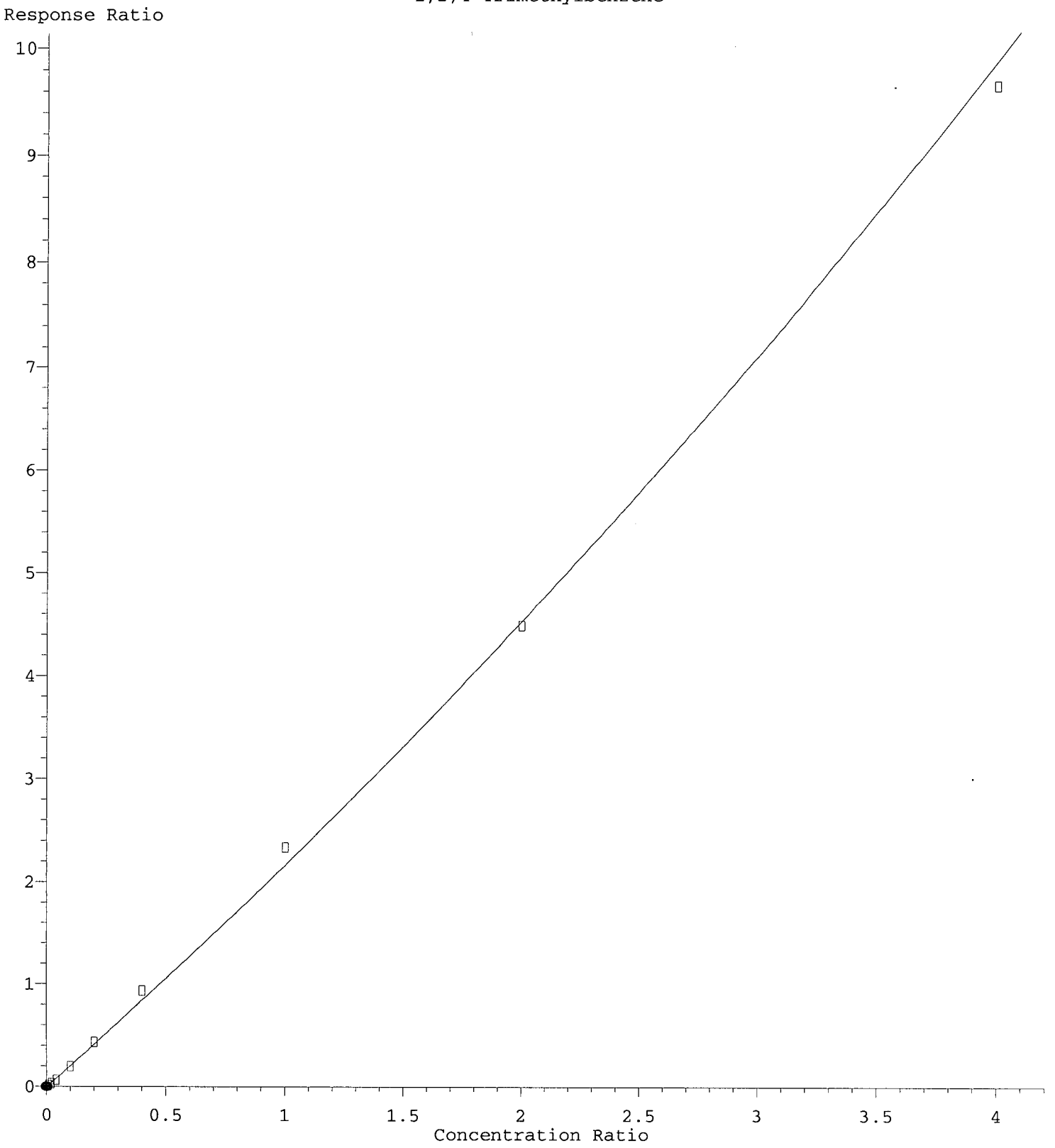
TIC: VG20042807.D\data.ms

(65) Isopropylbenzene

11.184min (-0.018) 0.19 ug/L m

response 103

Ion	Exp%	Act%
105.10	100.00	100.00
120.10	27.80	38.17
77.00	14.50	34.02
0.00	0.00	0.00



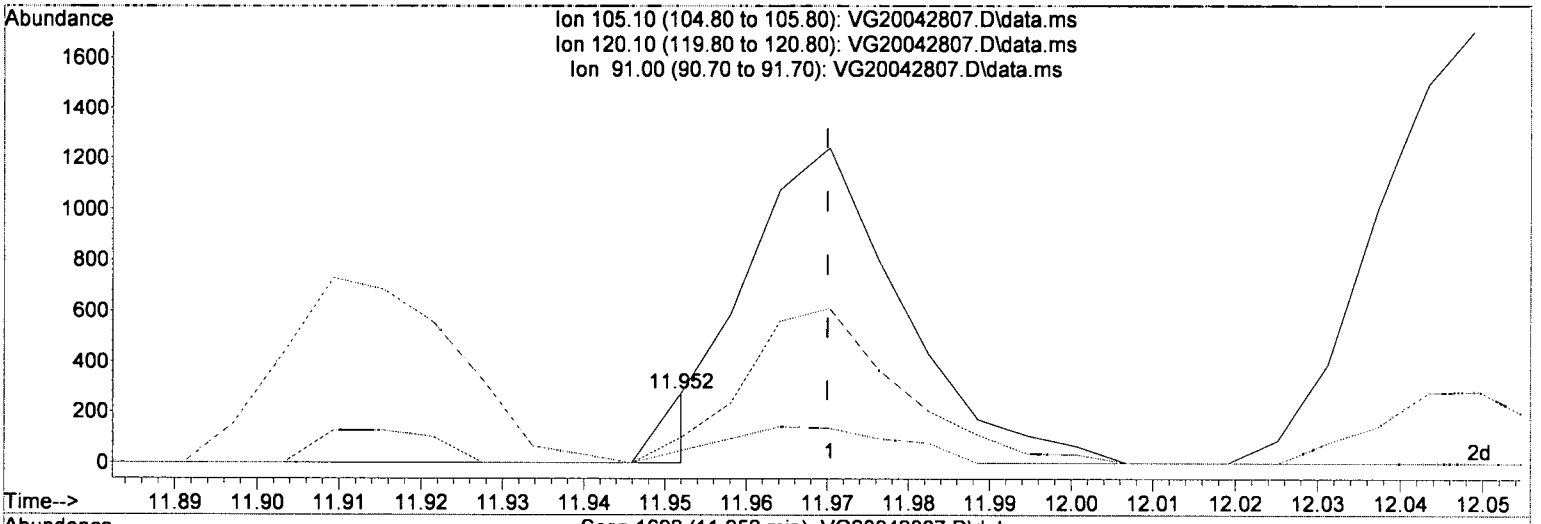
Intercept CMIX
4/30/2021

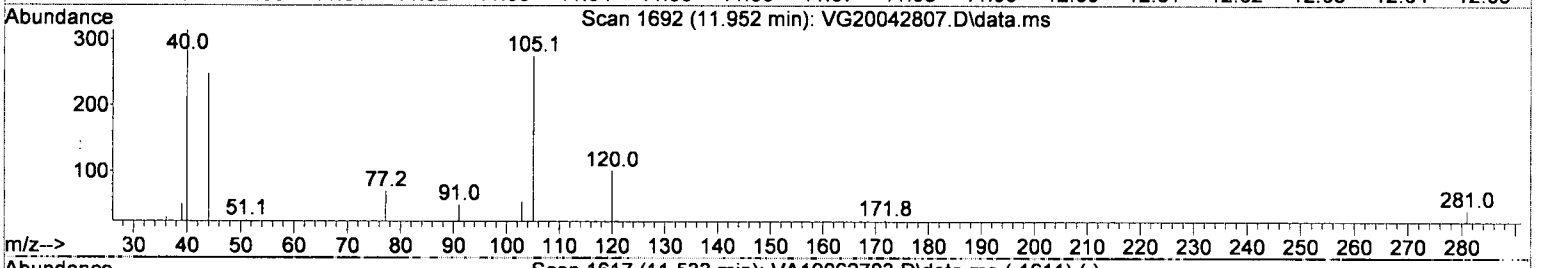
R = 1.01e-001 A*A + 2.07e+000 A - 6.31e-003
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w/(1/a^2)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:11:54 2020

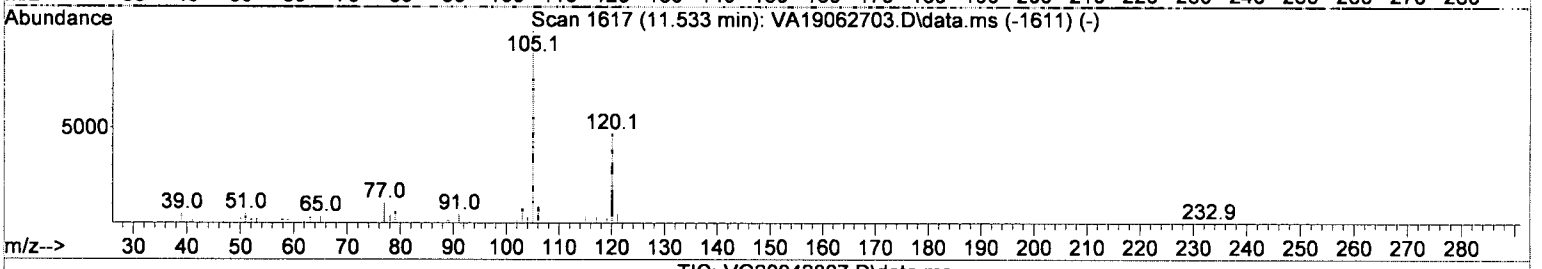
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







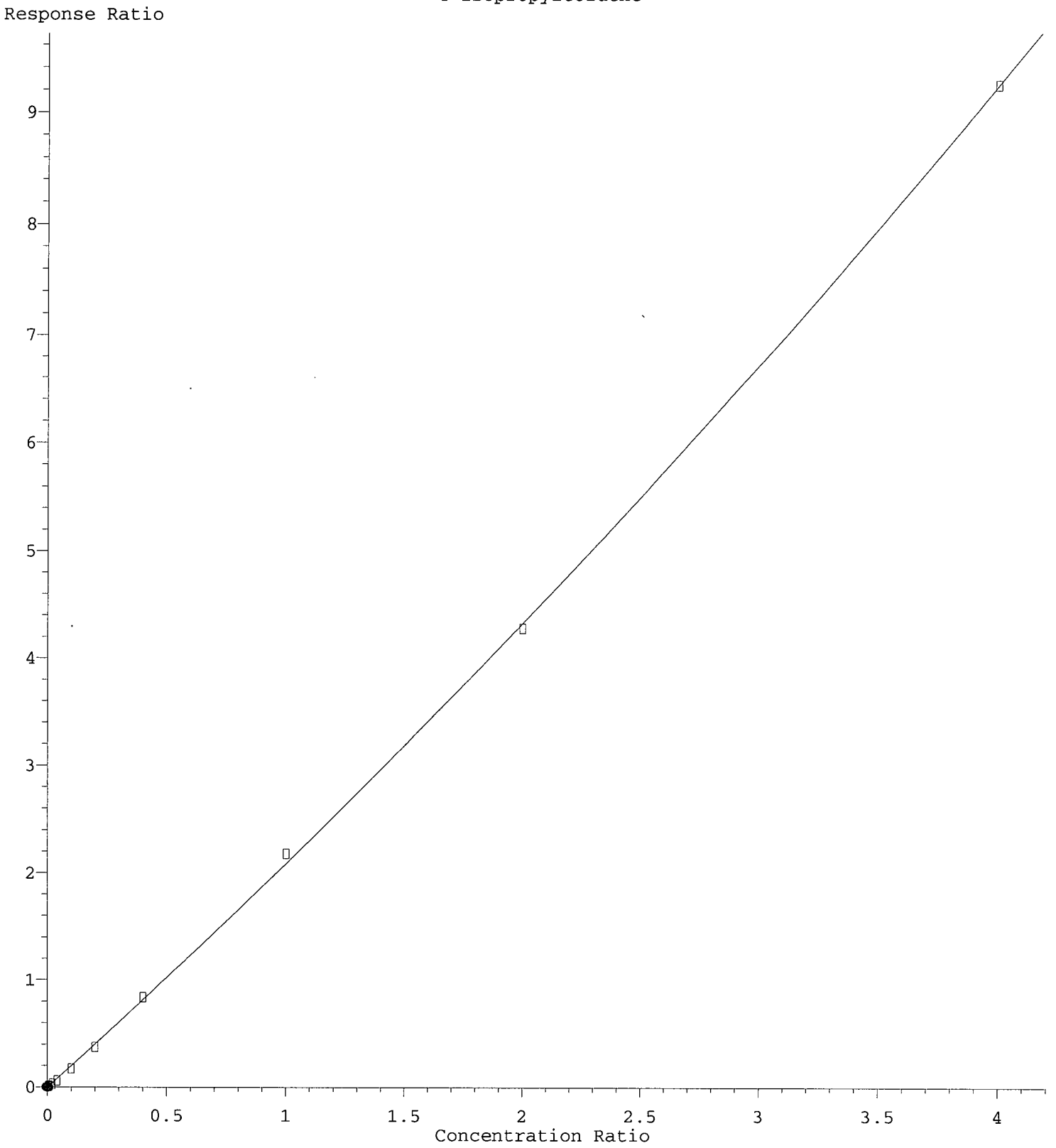
TIC: VG20042807.D\data.ms

(77) 1,2,4-Trimethylbenzene

11.952min (-0.018) 0.17 ug/L m

response 101

Ion	Exp%	Act%
105.10	100.00	100.00
120.10	48.60	36.73
91.00	9.80	18.18
0.00	0.00	0.00



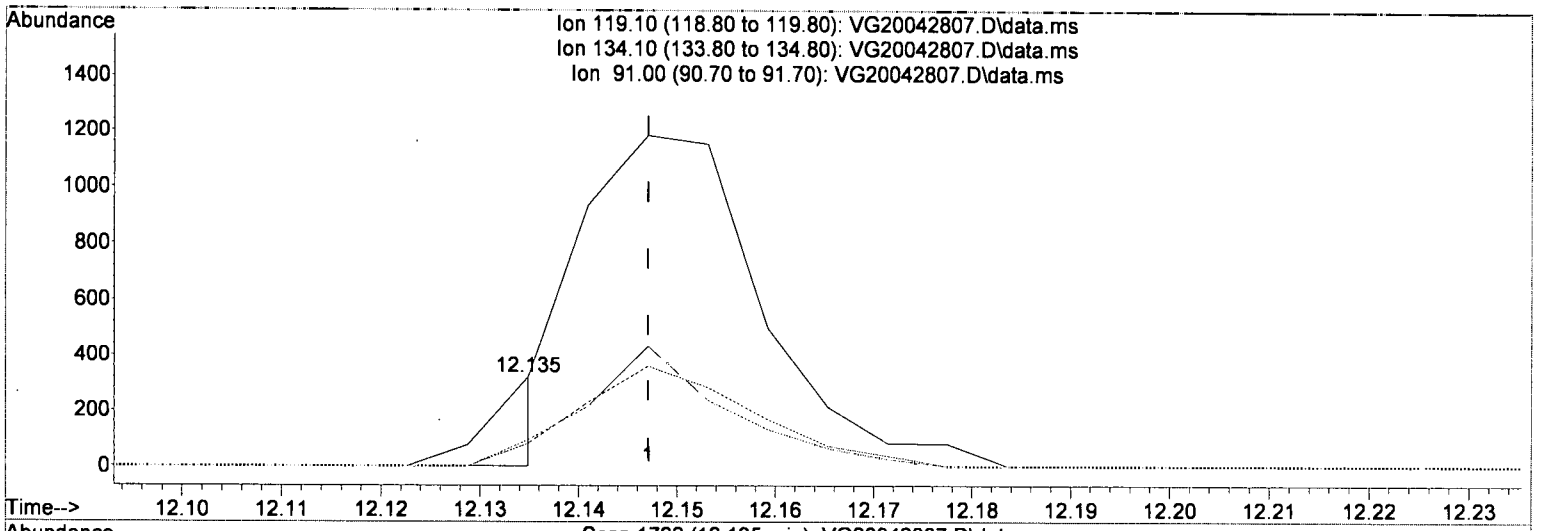
Intercept CMM
4/30/2020

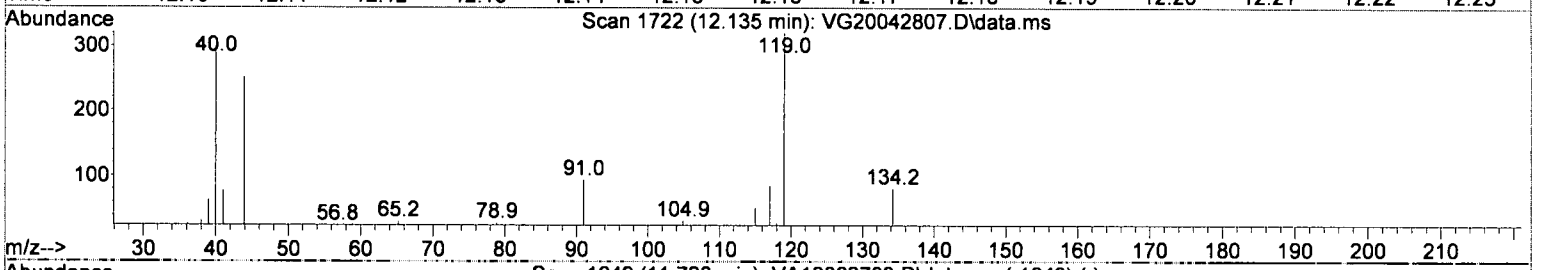
R = 7.24e-002 A*A + 2.02e+000 A - 6.35e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:15:22 2020

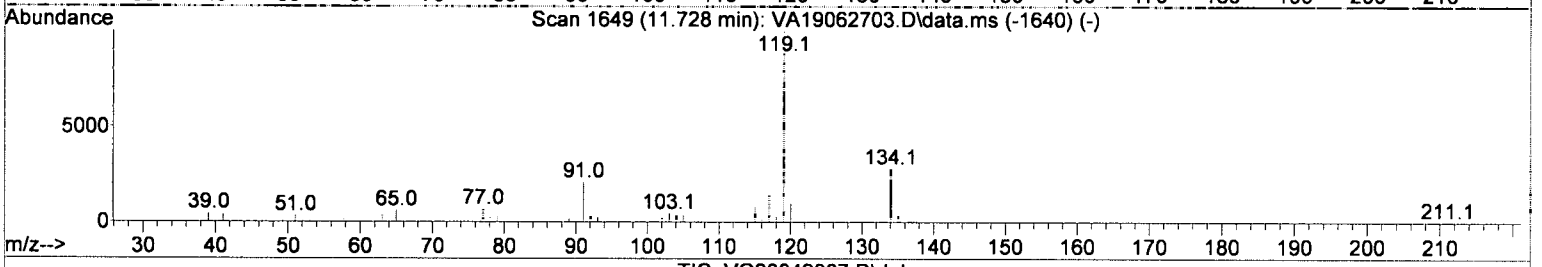
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







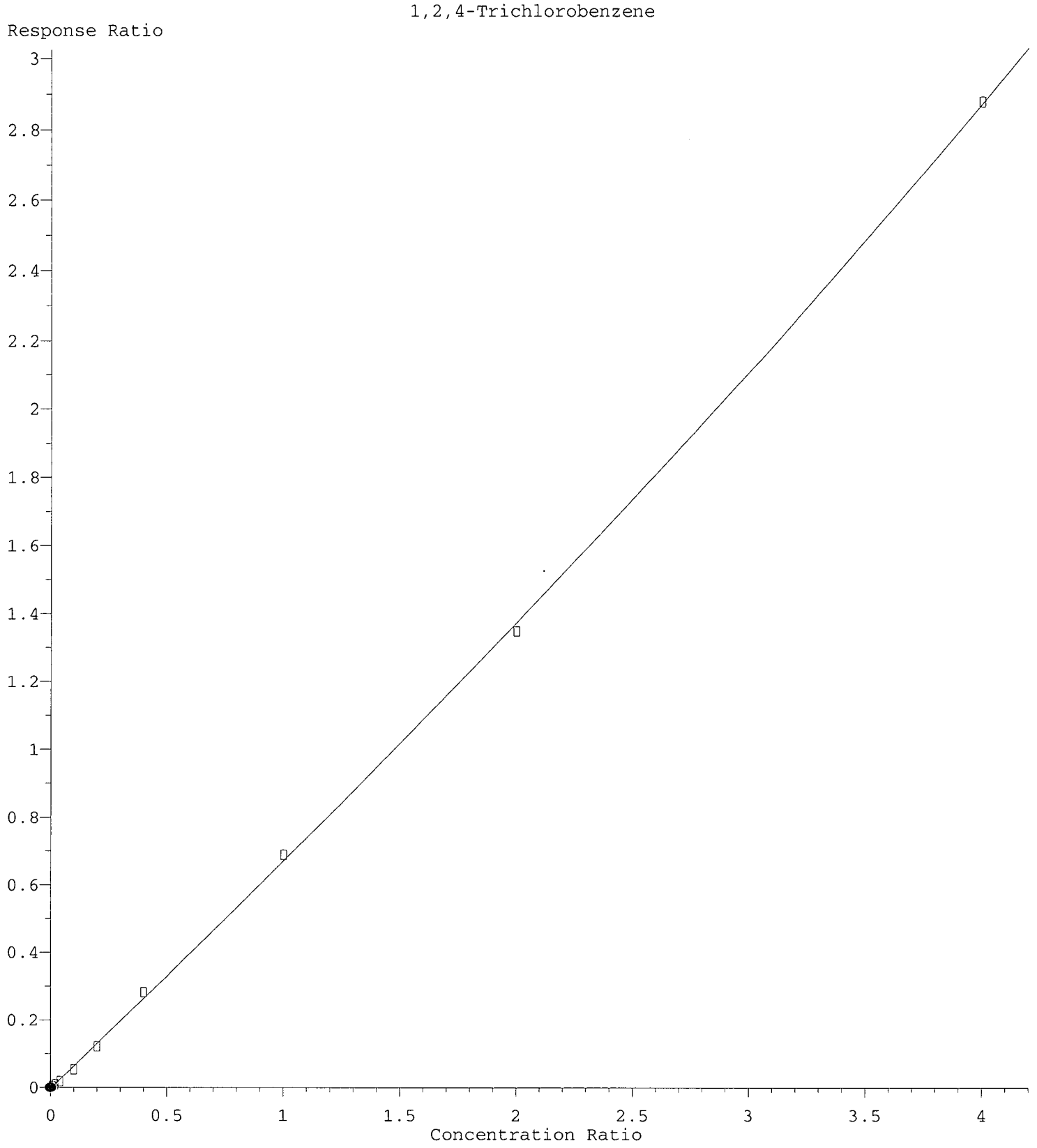
TIC: VG20042807.D\data.ms

(79) 4-Isopropyltoluene

12.135min (-0.012) 0.18 ug/L m

response 145

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	26.60	25.23
91.00	21.70	29.28
0.00	0.00	0.00

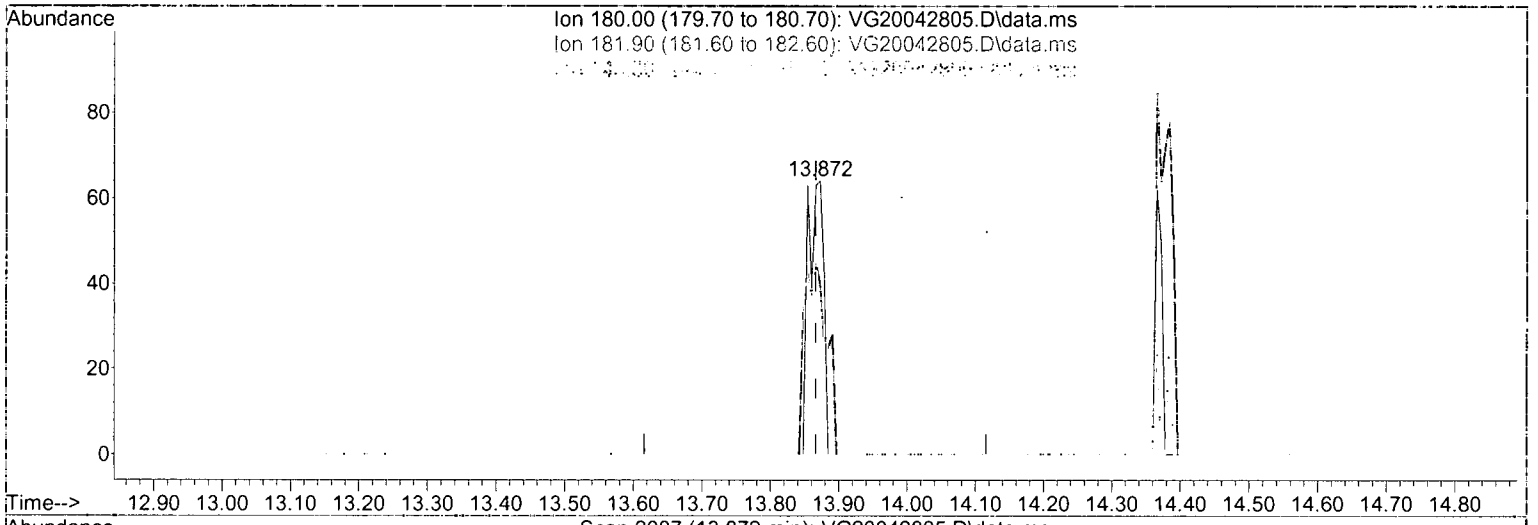


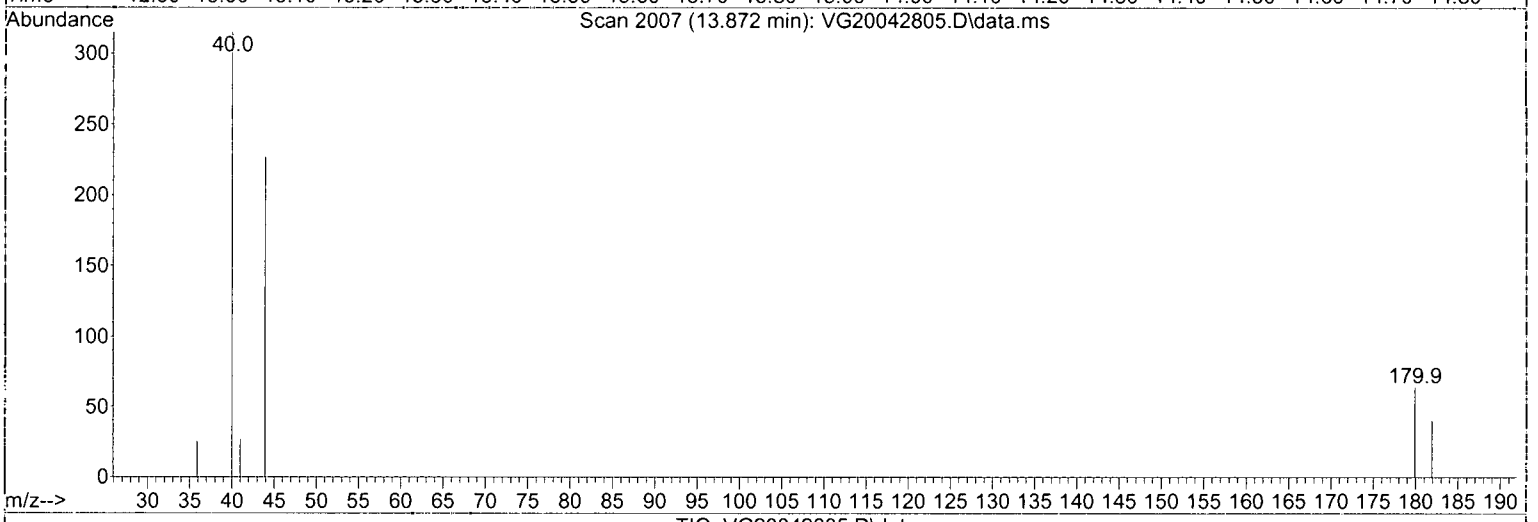
R = 1.532e-002 A*A + 6.580e-001 A - 3.262e-003
Coef of Det (r^2) = 0.999 CurveFit: QuadBrnch w/1/x
Method Name: C:\msdchem\1\methods\VG200429W.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:35:56 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration





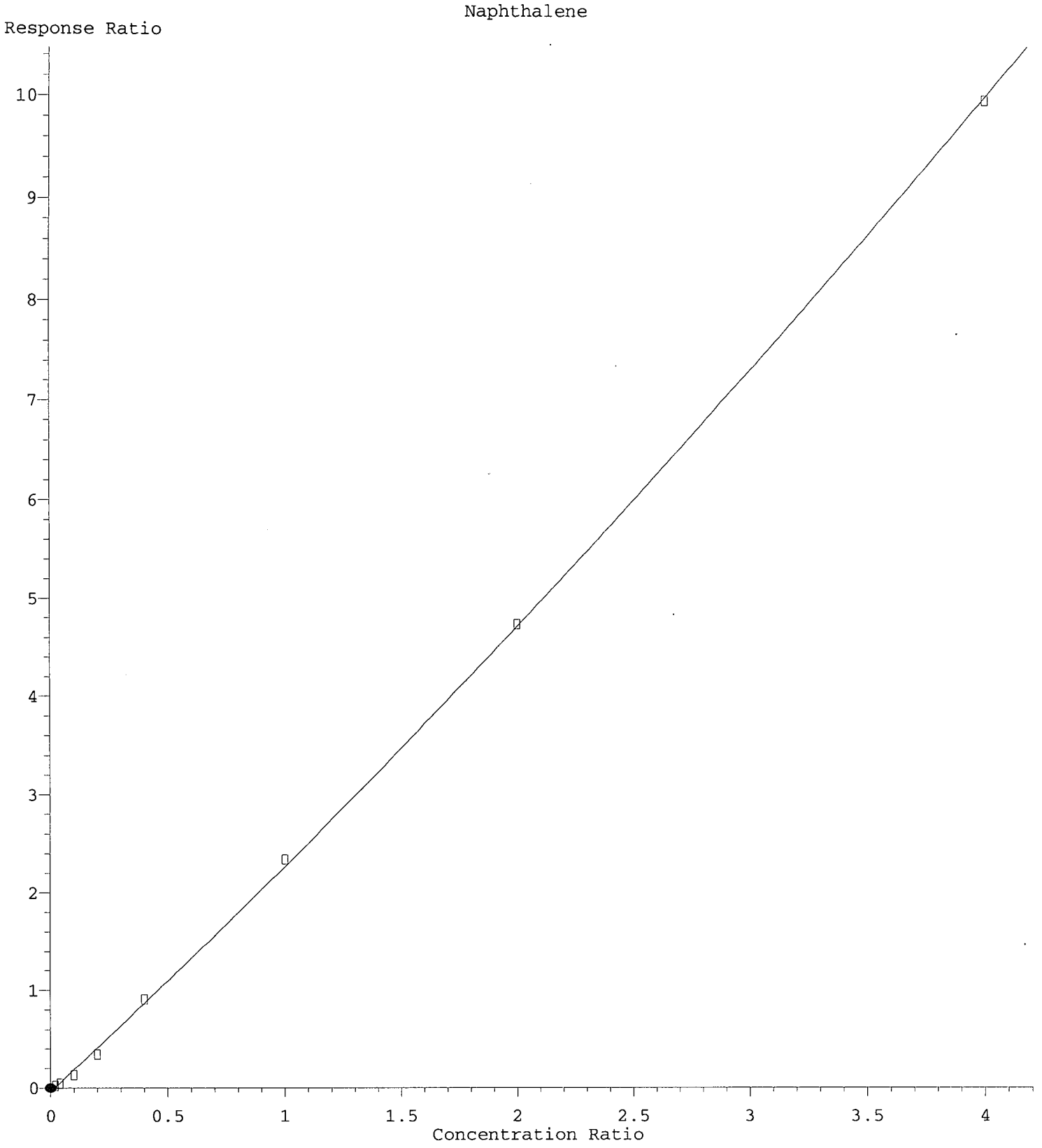
TIC: VG20042805.D\data.ms

(86) 1,2,4-Trichlorobenzene

13.872min (+ 0.006) 0.06 ug/L m

response 99

Ion	Exp%	Act%
180.00	100.00	100.00
181.90	99.10	62.50#
145.00	27.30	0.00
0.00	0.00	0.00



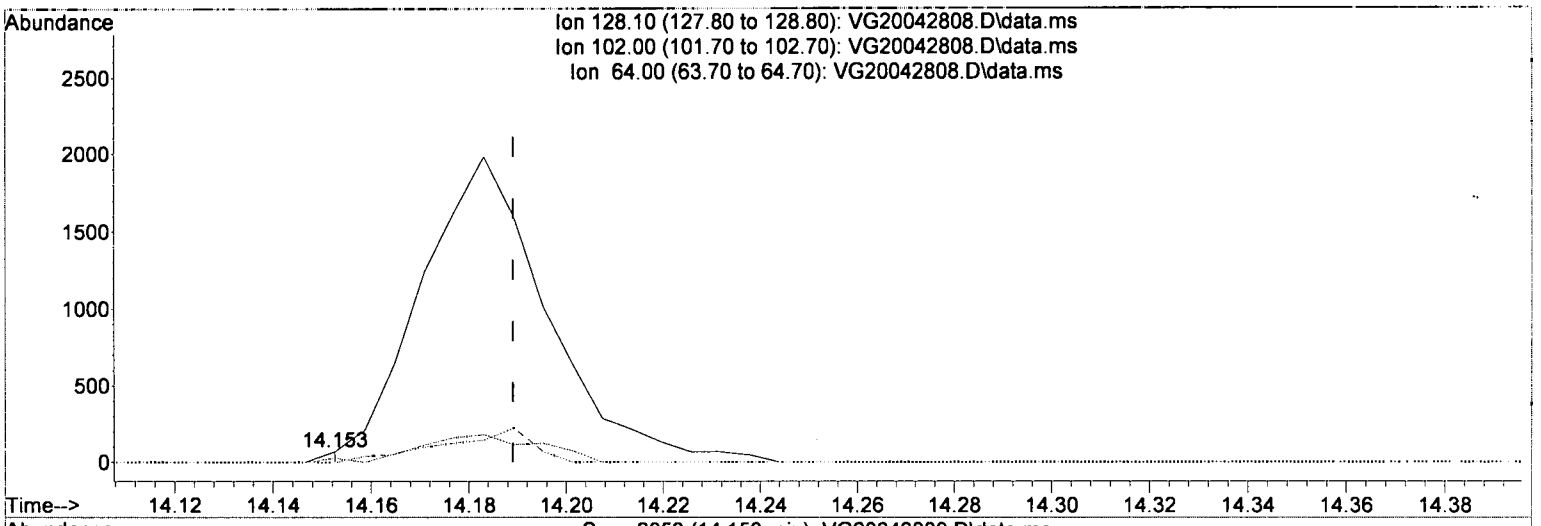
Intercept CMDR
4/30/20 hm

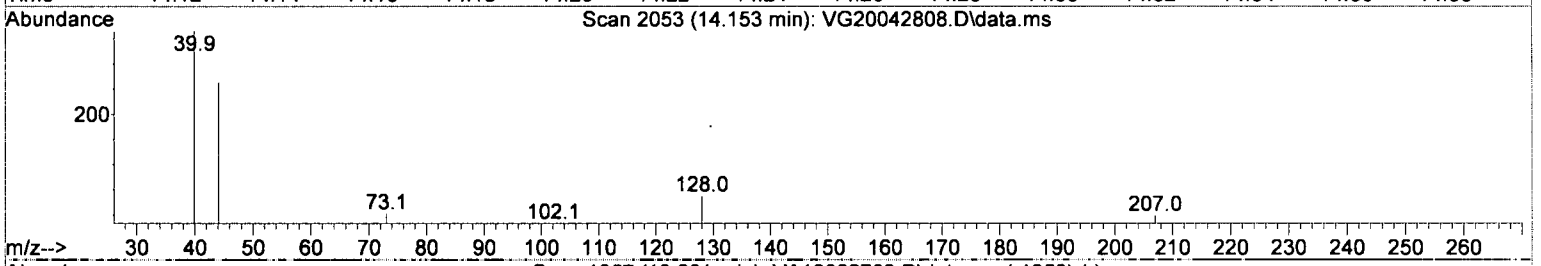
R = 6.90e-002 A*A + 2.24e+000 A - 3.99e-002
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Thu Apr 30 09:25:52 2020

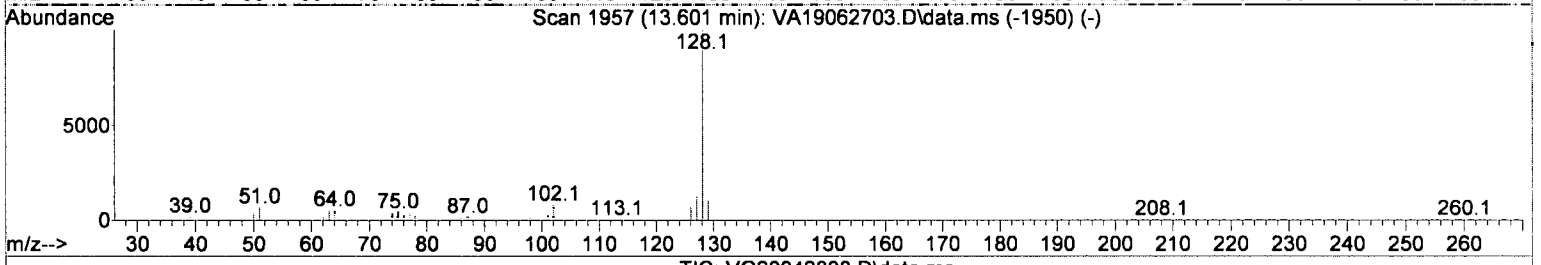
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 30 09:26:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







TIC: VG20042808.D\data.ms

(87) Naphthalene

14.153min (-0.036) 0.90 ug/L m

response 26

Ion	Exp%	Act%
128.10	100.00	100.00
102.00	7.90	38.57#
64.00	6.30	0.00
0.00	0.00	0.00

Response Factor Report VOA-GCMS7

Method Path : C:\msdchem\1\methods\
Method File : VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Wed Apr 29 15:17:10 2020
Response Via : Initial Calibration

Calibration Files
1 =VG20042805.D 2 =VG20042806.D 3 =VG20042807.D 4 =VG20042808.D 5 =VG20042809.D 6 =VG20042810.D
7 =VG20042811.D 8 =VG20042812.D 9 =VG20042813.D 10 =VG20042815.D 1a =VG20042817.D

		Compound	1	2	3	4	5	6	7	8	9	10	1a	Avg	%RSD
1)	I	Pentafluorobenzene...	ISTD												
2)		Dichlorodifluo...	1.339	1.047	1.088	0.996	0.982	0.970	0.941	0.983	1.078	0.975	1.032	1.039	10.57
3)	P	Chloromethane	—	1.563	1.464	1.222	1.188	1.162	1.126	1.171	1.210	1.091	1.126	1.232	12.60
4)	C	Vinyl Chloride	1.387	1.293	1.211	1.211	1.168	1.165	1.155	1.202	1.302	1.188	1.263	1.231	5.86
5)		Bromomethane	—					0.876	0.817	0.762	0.706	0.624	0.630	0.736	13.77
6)		Chloroethane	—				0.608	0.583	0.407	0.362	0.361	0.301	0.277	0.414	31.70
7)		Trichlorofluor...	1.550	1.420	1.354	1.290	1.229	1.227	1.159	1.206	1.207	1.058	1.087	1.253	11.51
8)		Ethanol	—		0.029	0.025	0.026	0.024	0.026	0.026	0.026	—		0.026	5.55
9)	C	1,1-Dichloroet...	1.568	1.412	1.393	1.367	1.314	1.317	1.330	1.421	1.410	1.334	1.449	1.392	5.34
10)		Carbon Disulfide	—	1.688	1.691	1.539	1.509	1.605	1.634	1.858	2.089	2.056	—	1.741	12.24
11)		Freon 113	1.009	0.864	0.931	0.885	0.870	0.882	0.838	0.878	0.849	0.784	0.886	0.880	6.38
12)		Iodomethane	—					0.105	0.165	0.266	0.451	0.541	0.693	0.370	61.96
13)		Acrolein	—			0.224	0.203	0.213	0.226	0.248	0.261	0.287	0.287	0.244	13.26
14)		Methylene Chlo...	—					1.397	1.216	1.144	1.066	0.995	1.017	1.139	13.22
15)		Acetone	—				0.629	0.517	0.505	0.513	0.474	0.476	0.479	0.513	10.58
16)		t-1,2-Dichloro...	1.704	1.295	1.298	1.253	1.275	1.284	1.300	1.379	1.390	1.342	1.441	1.360	9.39
17)		n-Hexane	—				0.097	0.120	0.116	0.129	0.140	0.135	0.150	0.127	13.76
18)		Methyl-tert-bu...	—	1.822	1.928	1.900	1.936	2.105	2.242	2.476	2.496	2.513	2.657	2.208	13.99
19)		tert-Butanol (...	—			0.124	0.134	0.140	0.156	0.175	0.179	—		0.151	14.76
20)		Diisopropyl et...	—		2.313	2.422	2.282	2.395	2.567	2.701	2.749	—		2.490	7.44
21)	P	1,1-Dichloroet...	1.938	1.746	1.783	1.798	1.748	1.742	1.761	1.853	1.818	1.731	1.828	1.795	3.44
22)		Acrylonitrile	—			0.485	0.480	0.534	0.574	0.622	0.599	0.617	0.615	0.566	10.40
23)		Vinyl Acetate	—			0.737	0.815	1.022	1.190	1.444	1.951	2.216	2.228	1.450	42.06
24)		Ethyl-tert-but...	—			1.708	1.724	1.812	1.933	2.119	2.247	—		1.924	11.44
25)		c-1,2-Dichloro...	1.348	1.204	1.163	1.212	1.221	1.277	1.319	1.400	1.417	1.375	1.448	1.308	7.48
26)		2,2-Dichloropr...	0.665	0.814	0.723	0.706	0.680	0.721	0.717	0.794	0.815	0.794	0.891	0.756	9.19
27)		Bromochloromet...	1.194	1.045	1.036	0.979	0.962	0.961	0.956	0.977	0.932	0.890	0.890	0.984	8.65
28)	C	Chloroform	2.070	1.686	1.656	1.671	1.674	1.701	1.702	1.746	1.715	1.648	1.739	1.728	6.81
29)		Carbon Tetrach...	—			0.693	0.743	0.821	0.871	0.972	1.022	0.999	—	0.874	14.78
30)		Tetrahydrofuran	—			0.417	0.401	0.429	0.481	0.515	0.530	0.555	0.569	0.487	13.39
31)		1,1,1-Trichlor...	1.550	1.077	1.190	1.139	1.106	1.207	1.197	1.300	1.317	1.262	1.412	1.251	11.16
32)	S	Dibromofluorom...	0.993	1.008	0.998	0.992	0.988	0.989	0.980	0.983	0.987	0.993	1.025	0.994	1.27
33)		1,1-Dichloropr...	1.132	1.098	1.000	1.016	0.981	1.120	1.164	1.303	1.322	1.260	1.394	1.163	12.04
34)		2-Butanone (MEK)	—			0.600	0.631	0.698	0.750	0.828	0.816	0.843	0.844	0.751	13.07
35)		Benzene	4.417	3.806	3.472	3.622	3.628	3.914	3.992	4.253	4.216	4.027	4.301	3.968	7.85
36)		tert-Amyl meth...	—			2.055	1.788	1.794	1.851	1.972	1.976			1.906	5.80
37)		1,2-Dichloroet...	1.511	1.420	1.296	1.308	1.316	1.336	1.340	1.378	1.331	1.286	1.320	1.349	4.86
38)		iso-Butyl Alcohol	—					0.077	0.086	0.097	0.100	0.105	0.102	0.095	11.58
39)	S	1,4-Difluorobe...	3.247	3.305	3.283	3.272	3.226	3.185	3.155	3.150	3.170	3.156	3.237	3.217	1.75
40)		Trichloroethen...	1.400	1.136	1.162	1.039	1.008	1.057	1.023	1.091	1.058	0.995	1.089	1.096	10.32
41)		tert-Amyl ethy...	—			1.149	1.215	1.162	1.272	1.392	1.448	—		1.273	9.68

4/30/2020

Method Path : C:\msdchem\1\methods\
Method File : VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds

42)		Dibromomethane	0.815	0.590	0.659	0.652	0.629	0.641	0.662	0.687	0.683	0.672	0.704	0.672	8.40
43)	C	1,2-Dichloropr...	1.075	1.013	1.039	1.024	1.040	1.031	1.070	1.112	1.118	1.085	1.148	1.069	4.09
44)		Bromodichlorom...	0.907	0.985	0.964	1.002	0.932	1.038	1.066	1.171	1.212	1.217	1.313	1.073	12.52
45)		Chlorobenzene-d5 (I)	----------				ISTD								
46)		2-Chloroethyl ...				0.093	0.100	0.112	0.125	0.157	0.174	0.193	0.211	0.146	30.64
47)		c-1,3-Dichloro...				0.314	0.338	0.366	0.414	0.476	0.518	0.521	0.550	0.437	20.91
48)	S	Toluene-d8 (S)	1.411	1.407	1.386	1.388	1.394	1.370	1.361	1.350	1.335	1.323	1.292	1.365	2.73
49)	C	Toluene	2.040	1.607	1.601	1.507	1.464	1.518	1.513	1.583	1.561	1.473	1.521	1.581	10.10
50)		Tetrachloroeth...	0.303	0.308	0.350	0.314	0.293	0.333	0.320	0.344	0.341	0.326	0.363	0.327	6.62
51)		4-Methyl-2-Pen...					0.416	0.448	0.511	0.563	0.571	0.574	0.539	0.517	12.14
52)		t-1,3-Dichloro...			0.246	0.285	0.279	0.330	0.371	0.430	0.466	0.478	0.505	0.377	25.71
53)		1,1,2-Trichlor...	0.356	0.344	0.347	0.349	0.345	0.360	0.358	0.372	0.369	0.355	0.363	0.356	2.67
54)		Dibromochlorom...		0.203	0.217	0.234	0.236	0.259	0.286	0.321	0.349	0.354	0.379	0.284	22.30
55)		1,3-Dichloropr...	0.619	0.476	0.538	0.556	0.533	0.561	0.583	0.608	0.610	0.593	0.596	0.570	7.53
56)		1,2-Dibromoeth...		0.268	0.296	0.290	0.308	0.327	0.337	0.370	0.374	0.369	0.382	0.332	12.22
57)		2-Hexanone						0.285	0.355	0.407	0.421	0.432	0.402	0.384	14.36
58)	P	Chlorobenzene	1.264	0.977	0.973	0.958	0.936	0.972	0.957	1.005	0.992	0.946	0.980	0.996	9.13
59)	C	Ethylbenzene	1.741	1.390	1.396	1.506	1.471	1.528	1.564	1.665	1.668	1.586	1.656	1.561	7.39
60)		1,1,1,2-Tetrac...		0.286	0.242	0.247	0.247	0.271	0.276	0.304	0.313	0.312	0.331	0.283	11.17
61)		m,p-Xylenes (2)	0.942	0.900	0.840	0.912	0.916	1.048	1.124	1.230	1.256	1.210	1.250	1.057	15.26
62)		o-Xylene	1.064	0.745	0.755	0.795	0.822	0.947	1.050	1.194	1.258	1.223	1.275	1.012	20.67
63)		Styrene		0.459	0.533	0.570	0.592	0.743	0.857	0.969	1.023	1.010		0.751	29.43
64)	P	Bromoform		0.129	0.142	0.154	0.145	0.173	0.189	0.220	0.253	0.268	0.284	0.196	29.04
65)		Isopropylbenzene		0.824	0.782	0.915	0.930	1.094	1.216	1.397	1.462	1.423	1.495	1.154	24.25
66)	I	1,4-Dichlorobenzen...	----------				ISTD								
67)	S	4-Bromofluorob...	0.833	0.826	0.830	0.824	0.823	0.804	0.799	0.781	0.768	0.755	0.780	0.802	3.41
68)		Bromobenzene	0.849	0.807	0.830	0.850	0.775	0.806	0.790	0.833	0.819	0.792	0.864	0.819	3.46
69)		n-Propylbenzene	3.750	2.973	3.065	2.921	2.908	3.087	3.242	3.483	3.458	3.317	3.601	3.255	8.90
70)	P	1,1,2,2-Tetrac...	1.204	0.947	0.995	1.019	0.979	0.973	0.984	1.011	1.003	1.016	1.010	1.013	6.61
71)		2-Chlorotoluene	0.737	0.617	0.618	0.615	0.629	0.655	0.677	0.722	0.726	0.702	0.769	0.679	8.18
72)		1,3,5-Trimethy...				1.616	1.713	1.994	2.179	2.366	2.358	2.283	2.466	2.122	14.93
73)		1,2,3-Trichlor...		0.311	0.311	0.352	0.323	0.319	0.326	0.331	0.312	0.303	0.301	0.319	4.72
74)		t-1,4-Dichloro...							0.090	0.105	0.112	0.119	0.124	0.110	12.02
75)		4-Chlorotoluene	2.149	1.820	1.738	1.768	1.821	1.943	2.075	2.214	2.179	2.096	2.224	2.002	9.41
76)		tert-Butylbenzene		1.001	0.905	0.944	0.984	1.044	1.107	1.206	1.220	1.187	1.295	1.089	12.18
77)		1,2,4-Trimethy...			1.426	1.530	1.612	1.957	2.162	2.334	2.336	2.246	2.412	2.002	19.22
78)		sec-Butylbenzene				1.964	2.019	2.313	2.466	2.690	2.706	2.632	2.851	2.455	13.40
79)		4-Isopropyltol...		1.302	1.365	1.360	1.467	1.715	1.860	2.099	2.182	2.139	2.309	1.780	21.82
80)		1,3-Dichlorobe...	1.354	1.218	1.195	1.209	1.167	1.293	1.323	1.395	1.398	1.338	1.402	1.299	6.79
81)		1,4-Dichlorobe...	1.775	1.647	1.523	1.473	1.353	1.415	1.403	1.451	1.427	1.363	1.420	1.477	8.67
82)		n-Butylbenzene				1.433	1.451	1.646	1.764	1.932	1.934	1.861	1.969	1.749	12.38
83)		1,2-Dichlorobe...	1.262	1.040	1.155	1.117	1.184	1.244	1.273	1.354	1.352	1.284	1.315	1.234	8.10
84)		1,2-Dibromo-3-...						0.166	0.173	0.197	0.209	0.215	0.224	0.198	11.85
85)		Hexachlorobuta...			0.152	0.142	0.147	0.159	0.155	0.164	0.150	0.141	0.155	0.152	4.94
86)		1,2,4-Trichlor...			0.455	0.476	0.465	0.534	0.607	0.706	0.689	0.675	0.720	0.592	18.65
87)		Naphthalene				1.072	1.107	1.301	1.710	2.270	2.341	2.366	2.495	1.833	33.09
88)		1,2,3-Trichlor...					0.468	0.538	0.621	0.714	0.663	0.647	0.689	0.620	14.09

(#) = Out of Range

Compound List Report VOA-GCMS7

Method Path : C:\msdchem\1\methods\
Method File : VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Wed Apr 29 15:17:10 2020
Response Via : Initial Calibration

Total Cpnds : 88

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID	
1	I	Pentafluorobenzene (I)	99	6.837	1.000	A	2	A	R	
2		Dichlorodifluoromethane	85	1.716	0.251	A	2	A	R	
3	P	Chloromethane	50	1.978	0.289	A	2	A	R	
4	C	Vinyl Chloride	62	2.100	0.307	A	2	A	R	
5		Bromomethane	96	2.526	0.369	A	2	A	R	
6		Chloroethane	64	2.722	0.398	Q	2	A	R	1/a
7		Trichlorofluoromethane	101	2.917	0.427	A	2	A	R	
8		Ethanol	45	3.618	0.529	A	1	A	R	
9	C	1,1-Dichloroethene	61	3.563	0.521	A	2	A	R	
10		Carbon Disulfide	76	3.569	0.522	A	2	A	R	
11		Freon 113	101	3.654	0.534	A	2	A	R	
12		Iodomethane	142	3.727	0.545	Q	2	A	R	1/a
13		Acrolein	56	4.008	0.586	A	2	A	R	
14		Methylene Chloride	84	4.301	0.629	A	2	A	R	
15		Acetone	43	4.392	0.642	A	1	A	R	
16		t-1,2-Dichloroethene	61	4.490	0.657	A	2	A	R	
17		n-Hexane	86	4.587	0.671	A	3	A	R	
18		Methyl-tert-butyl-ether	73	4.636	0.678	A	3	A	R	
19		tert-Butanol (TBA)	59	4.807	0.703	A	1	A	R	
20		Diisopropyl ether (DIPE)	45	5.087	0.744	A	2	A	R	
21	P	1,1-Dichloroethane	63	5.197	0.760	A	2	A	R	
22		Acrylonitrile	53	5.264	0.770	A	2	A	R	
23		Vinyl Acetate	43	5.502	0.805	Q	2	A	R	1/a
24		Ethyl-tert-butyl ether (ETBE)	59	5.489	0.803	A	2	A	R	
25		c-1,2-Dichloroethene	61	5.801	0.848	A	2	A	R	
26		2,2-Dichloropropane	77	5.922	0.866	A	2	A	R	
27		Bromochloromethane	49	6.020	0.881	A	2	A	R	
28	C	Chloroform	83	6.106	0.893	A	2	A	R	
29		Carbon Tetrachloride	117	6.245	0.913	A	2	A	R	
30		Tetrahydrofuran	42	6.282	0.919	A	2	A	R	
31		1,1,1-Trichloroethane	97	6.319	0.924	A	2	A	R	
32	S	Dibromofluoromethane (S)	111	6.307	0.922	A	2	A	R	
33		1,1-Dichloropropene	75	6.465	0.946	A	2	A	R	
34		2-Butanone (MEK)	43	6.452	0.944	A	2	A	R	
35		Benzene	78	6.733	0.985	A	2	A	R	
36		tert-Amyl methyl ether (TAME)	73	6.837	1.000	A	2	A	R	
37		1,2-Dichloroethane (EDC)	62	6.959	1.018	A	2	A	R	
38		iso-Butyl Alcohol	43	7.032	1.029	A	2	A	R	
39	S	1,4-Difluorobenzene (S)	114	7.422	1.086	A	2	A	R	
40		Trichloroethene (TCE)	130	7.392	1.081	A	2	A	R	
41		tert-Amyl ethyl ether (TAEE)	59	7.659	1.120	A	2	A	R	
42		Dibromomethane	93	7.843	1.147	A	2	A	R	
43	C	1,2-Dichloropropane	63	7.977	1.167	A	2	A	R	
44		Bromodichloromethane	83	8.050	1.177	A	2	A	R	
45	I	Chlorobenzene-d5 (I)	117	10.434	1.000	A	2	A	R	
46		2-Chloroethyl Vinyl Ether	63	8.714	0.835	Q	2	A	R	
47		c-1,3-Dichloropropene	75	8.781	0.842	Q	2	A	R	1/a
48	S	Toluene-d8 (S)	98	8.965	0.859	A	2	A	R	
49	C	Toluene	91	9.025	0.865	A	2	A	R	
50		Tetrachloroethene (PCE)	166	9.415	0.902	A	2	A	R	
51		4-Methyl-2-Pentanone (MIBK)	43	9.440	0.905	A	2	A	R	
52		t-1,3-Dichloropropene	75	9.464	0.907	Q	2	A	R	1/a
53		1,1,2-Trichloroethane	97	9.617	0.922	A	2	A	R	
54		Dibromochloromethane	129	9.769	0.936	Q	2	A	R	1/a
55		1,3-Dichloropropane	76	9.861	0.945	A	2	A	R	

56		1,2-Dibromoethane (EDB)	107	9.988	0.957	A	2	A	R
57		2-Hexanone	43	10.220	0.979	A	2	A	R
58	P	Chlorobenzene	112	10.446	1.001	A	2	A	R
59	C	Ethylbenzene	91	10.477	1.004	A	2	A	R
60		1,1,1,2-Tetrachloroethane	131	10.507	1.007	A	2	A	R
61		m,p-Xylenes (2)	91	10.599	1.016	Q	2	A	R
62		o-Xylene	91	10.946	1.049	Q	2	A	R
63		Styrene	104	11.013	1.055	Q	2	A	R
64	P	Bromoform	173	11.019	1.056	Q	2	A	R
65		Isopropylbenzene	105	11.202	1.074	Q	2	A	R
66	I	1,4-Dichlorobenzene-d4 (I)	152	12.275	1.000	A	2	A	R
67	S	4-Bromofluorobenzene (S)	174	11.428	0.931	A	2	A	R
68		Bromobenzene	156	11.507	0.937	A	2	A	R
69		n-Propylbenzene	91	11.525	0.939	A	2	A	R
70	P	1,1,2,2-Tetrachloroethane	83	11.598	0.945	A	2	A	R
71		2-Chlorotoluene	126	11.659	0.950	A	2	A	R
72		1,3,5-Trimethylbenzene	105	11.677	0.951	A	2	A	R
73		1,2,3-Trichloropropane	110	11.696	0.953	A	2	A	R
74		t-1,4-Dichloro-2-butene	88	11.720	0.955	A	3	A	R
75		4-Chlorotoluene	91	11.781	0.960	A	2	A	R
76		tert-Butylbenzene	91	11.915	0.971	A	2	A	R
77		1,2,4-Trimethylbenzene	105	11.970	0.975	Q	2	A	R
78		sec-Butylbenzene	105	12.043	0.981	A	2	A	R
79		4-Isopropyltoluene	119	12.147	0.990	Q	2	A	R
80		1,3-Dichlorobenzene	146	12.226	0.996	A	2	A	R
81		1,4-Dichlorobenzene	146	12.281	1.000	A	2	A	R
82		n-Butylbenzene	91	12.476	1.016	A	2	A	R
83		1,2-Dichlorobenzene	146	12.616	1.028	A	2	A	R
84		1,2-Dibromo-3-Chloropropane	157	13.262	1.080	A	2	A	R
85		Hexachlorobutadiene	223	13.811	1.125	A	3	A	R
86		1,2,4-Trichlorobenzene	180	13.872	1.130	Q	2	A	R
87		Naphthalene	128	14.189	1.156	Q	2	A	R
88		1,2,3-Trichlorobenzene	180	14.372	1.171	A	2	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VG200429W.M Thu Apr 30 09:39:18 2020

Injection Log

Directory: z:\data\2020-04\0D28059

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	Vg20042801.d	1.	0D28059-IBL1	1X 5mL DI	28 Apr 2020 14:01
2	2	Vg20042802.d	1.	0D28059-IBL2	1X 5mL DI	28 Apr 2020 14:28
3	3	Vg20042803.d	1.	0D28059-TUN1	1X A20D004 BFB ...	28 Apr 2020 14:55
4	4	Vg20042804.d	1.	0D28059-ICB1	1X 5mL DI	28 Apr 2020 15:22
5	5	Vg20042805.d	1.	0D28059-CAL1	1X 5mL 0.1 PPB...	28 Apr 2020 15:49
6	6	Vg20042806.d	1.	0D28059-CAL2	1X 5mL 0.2 PPB...	28 Apr 2020 16:16
7	7	Vg20042807.d	1.	0D28059-CAL3	1X 5mL 0.4 PPB...	28 Apr 2020 16:43
8	8	Vg20042808.d	1.	0D28059-CAL4	1X 5mL 1 PPB ...	28 Apr 2020 17:10
9	9	Vg20042809.d	1.	0D28059-CAL5	1X 5mL 2 PPB ...	28 Apr 2020 17:37
10	10	Vg20042810.d	1.	0D28059-CAL6	1X 5mL 5 PPB ...	28 Apr 2020 18:04
11	11	Vg20042811.d	1.	0D28059-CAL7	1X 5mL 10 PPB ...	28 Apr 2020 18:31
12	12	Vg20042812.d	1.	0D28059-CAL8	1X 5mL 20 PPB ...	28 Apr 2020 18:58
13	13	Vg20042813.d	1.	0D28059-CAL9	1X 5mL 50 PPB ...	28 Apr 2020 19:25
14	14	Vg20042814.d	1.	0D28059-IBL3	1X 5mL DI	28 Apr 2020 19:52
15	15	Vg20042815.d	1.	0D28059CALA	1X 5mL 100 PPB...	28 Apr 2020 20:19
16	16	Vg20042816.d	1.	0D28059-IBL4	1X 5mL DI	28 Apr 2020 20:47
17	17	Vg20042817.d	1.	0D28059-CALB	1X 5mL 200 PPB...	28 Apr 2020 21:14
18	18	Vg20042818.d	1.	0D28059-IBL5	1X 5mL DI	28 Apr 2020 21:41
19	19	Vg20042819.d	1.	0D28059-IBL6	1X 5mL DI	28 Apr 2020 22:08
20	20	Vg20042820.d	1.	0D28059-ICV1	1X 5mL 20-40PP...	28 Apr 2020 22:35
21	21	Vg20042821.d	1.	0D28059-IBL7	1X 5mL DI	28 Apr 2020 23:02
22	22	Vg20042822.d	1.	0D02028-TUN2	1X A19L316 BFB...	28 Apr 2020 23:29
23	23	Vg20042823.d	1.	0D28059-ICB2	1X 5mL DI	28 Apr 2020 23:56
24	24	Vg20042824.d	1.	0D28059RT1	1X 5mL A19J423	29 Apr 2020 00:23
25	25	Vg20042825.d	1.	0D28059-IBL8	1X 5mL DI	29 Apr 2020 00:50
26	26	Vg20042826.d	1.	0D28059-CALC	1X 5mL 50 PPB GX	29 Apr 2020 01:17
27	27	Vg20042827.d	1.	0D28059-CALD	1X 5mL 100 PP...	29 Apr 2020 01:44
28	28	Vg20042828.d	1.	0D28059-CALE	1X 5mL 250 PP...	29 Apr 2020 02:11
29	29	Vg20042829.d	1.	0D28059-CALF	1X 5mL 500 PP...	29 Apr 2020 02:38
30	30	Vg20042830.d	1.	0D28059-CALG	1X 5mL 1000 P...	29 Apr 2020 03:05
31	31	Vg20042831.d	1.	0D28059-CALH	1X 5mL 2500 P...	29 Apr 2020 03:32
32	32	Vg20042832.d	1.	0D28059-CALI	1X 5mL 5000 P...	29 Apr 2020 03:59
33	33	Vg20042833.d	1.	0D28059-CALJ	1X 5mL 10000 ...	29 Apr 2020 04:27
34	34	Vg20042834.d	1.	0D28059-IBL9	1X 5mL DI	29 Apr 2020 04:54
35	35	Vg20042835.d	1.	0D28059-IBLA	1X 5mL DI	29 Apr 2020 05:21
36	36	Vg20042836.d	1.	0D28059-ICV2	1X 5mL 500PPB ...	29 Apr 2020 05:48
37	37	Vg20042837.d	1.	0D28059-IBLB	1X 5mL DI	29 Apr 2020 06:15

Need to Rerun 250ppb was prepped Wrong

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042801.D
Acq On : 28 Apr 2020 2:01 pm
Operator : PS
Sample : 0D28059-IBL1
Misc : 1X 5mL DI
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 30 09:38:08 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	6.837	99	134037	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	360766	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	149450	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	6.307	111	131607	49.38 ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	431555	50.04 ug/L	0.00
48) Toluene-d8 (S)	8.965	98	505629	51.33 ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.428	174	126880	52.92 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.972	50	161	0.05 ug/L	80
4) Vinyl Chloride	0.000		0	N.D.	
5) Bromomethane	2.539	96	37	0.02 ug/L	71
6) Chloroethane	2.734	64	11	Below Cal #	47
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethanol	3.606	45	851	12.26 ug/L	86
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Carbon Disulfide	3.563	76	159	0.03 ug/L	78
11) Freon 113	0.000		0	N.D.	
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	4.295	84	8931	2.92 ug/L	95
15) Acetone	4.386	43	1860	1.35 ug/L	90
16) t-1,2-Dichloroethene	0.000		0	N.D.	
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	4.807	59	316	0.78 ug/L #	88
20) Diisopropyl ether (DIPE)	5.112	45	21	0.00 ug/L #	33
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	5.539	43	10	1.13 ug/L	74
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	0.000		0	N.D.	
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	6.136	49	10	0.00 ug/L #	14
28) Chloroform	0.000		0	N.D.	
29) Carbon Tetrachloride	6.234	117	10	0.00 ug/L #	13
30) Tetrahydrofuran	0.000		0	N.D.	
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	6.459	75	11	0.00 ug/L #	39
34) 2-Butanone (MEK)	6.343	43	10	0.00 ug/L	52
35) Benzene	6.740	78	40	0.00 ug/L	56
36) tert-Amyl methyl ether...	6.831	73	190	0.04 ug/L #	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.	
38) iso-Butyl Alcohol	0.000		0	N.D.	
40) Trichloroethene (TCE)	0.000		0	N.D.	
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	8.026	63	11	0.00 ug/L #	40
44) Bromodichloromethane	0.000		0	N.D.	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	0.000		0	N.D.	
49) Toluene	9.020	91	144	0.01 ug/L	94

NL
4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042801.D
Acq On : 28 Apr 2020 2:01 pm
Operator : PS
Sample : 0D28059-IBL1
Misc : 1X 5mL DI
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 30 09:38:08 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

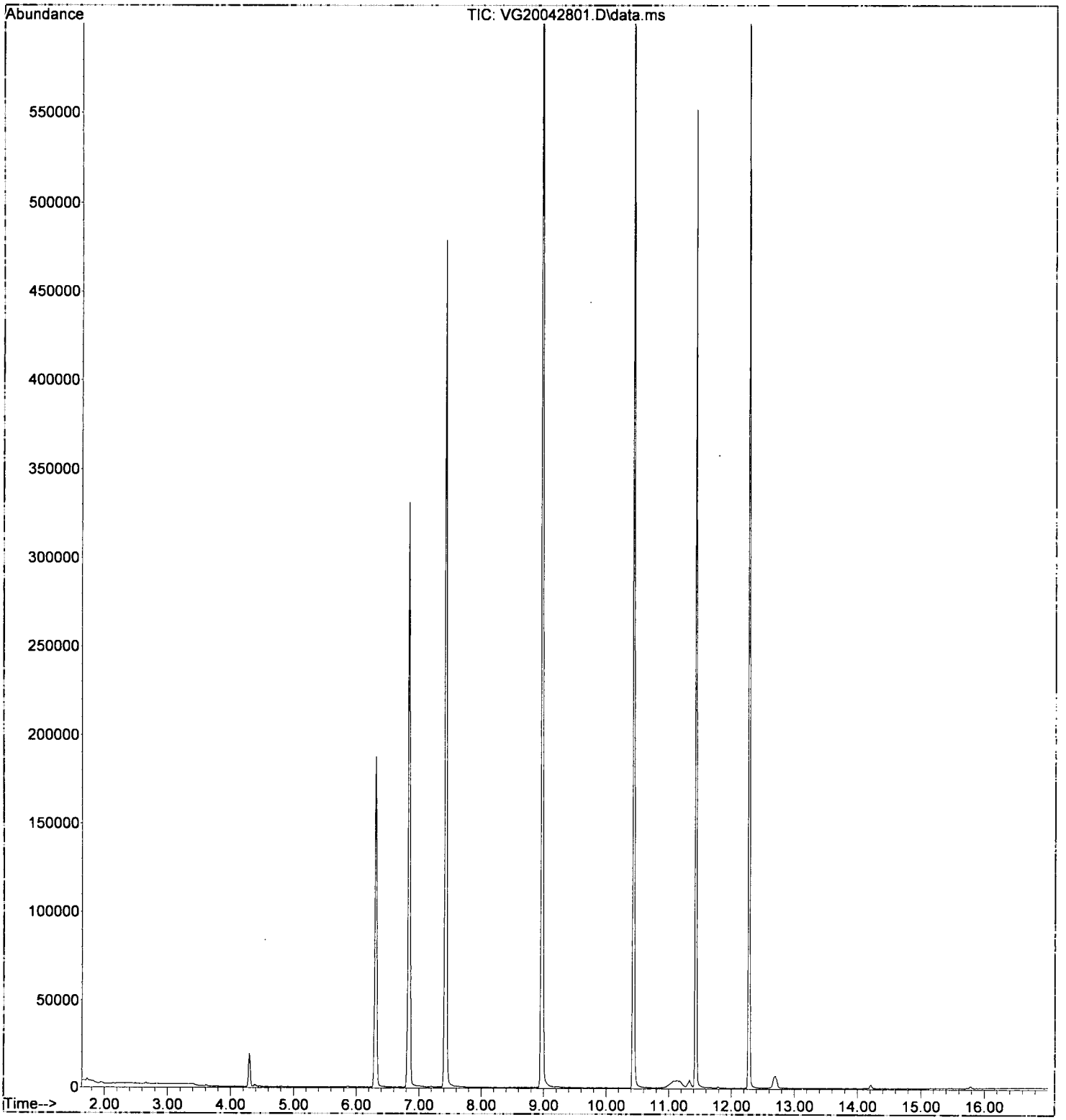
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	0.000		0	N.D.	
51) 4-Methyl-2-Pentanone (...	0.000		0	N.D.	
52) t-1,3-Dichloropropene	9.513	75	10	0.35 ug/L #	45
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	10.245	43	19	0.01 ug/L #	32
58) Chlorobenzene	10.458	112	20	0.00 ug/L #	1
59) Ethylbenzene	10.471	91	55	0.00 ug/L #	50
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	10.605	91	37	0.14 ug/L #	34
62) o-Xylene	0.000		0	N.D.	
63) Styrene	0.000		0	N.D.	
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	0.000		0	N.D.	
68) Bromobenzene	11.428	156	30	0.01 ug/L #	1
69) n-Propylbenzene	11.428	91	425	0.04 ug/L #	32
70) 1,1,2,2-Tetrachloroethane	11.550	83	10	0.00 ug/L #	24
71) 2-Chlorotoluene	0.000		0	N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	0.000		0	N.D.	
76) tert-Butylbenzene	0.000		0	N.D.	
77) 1,2,4-Trimethylbenzene	12.043	105	10	0.15 ug/L #	36
78) sec-Butylbenzene	12.043	105	10	0.00 ug/L	58
79) 4-Isopropyltoluene	12.147	119	31	0.16 ug/L	51
80) 1,3-Dichlorobenzene	12.287	146	74	0.02 ug/L #	1
81) 1,4-Dichlorobenzene	12.287	146	74	0.02 ug/L #	1
82) n-Butylbenzene	0.000		0	N.D.	
83) 1,2-Dichlorobenzene	0.000		0	N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
87) Naphthalene	0.000		0	N.D.	
88) 1,2,3-Trichlorobenzene	14.390	180	19	0.01 ug/L #	12

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042801.D
Acq On : 28 Apr 2020 2:01 pm
Operator : PS
Sample : 0D28059-IBL1
Misc : 1X 5mL DI
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 30 09:38:08 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042802.D
Acq On : 28 Apr 2020 2:28 pm
Operator : PS
Sample : 0D28059-IBL2
Misc : 1X 5mL DI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 30 09:38:11 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	6.837	99	132944	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	366584	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	154305	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	6.306	111	132284	50.05 ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	436346	51.01 ug/L	0.00
48) Toluene-d8 (S)	8.964	98	514229	51.38 ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.427	174	129158	52.17 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.978	50	193	0.06 ug/L	78
4) Vinyl Chloride	0.000		0	N.D.	
5) Bromomethane	2.533	96	35	0.02 ug/L #	64
6) Chloroethane	2.728	64	23	Below Cal #	47
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethanol	3.612	45	128	1.86 ug/L	65
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Carbon Disulfide	3.569	76	72	0.02 ug/L	78
11) Freon 113	0.000		0	N.D.	
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	4.295	84	7762	2.56 ug/L	96
15) Acetone	4.380	43	4628	3.39 ug/L	87
16) t-1,2-Dichloroethene	0.000		0	N.D.	
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	4.801	59	277	0.69 ug/L #	59
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	0.000		0	N.D.	
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	0.000		0	N.D.	
28) Chloroform	0.000		0	N.D.	
29) Carbon Tetrachloride	0.000		0	N.D.	
30) Tetrahydrofuran	0.000		0	N.D.	
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	0.000		0	N.D.	
34) 2-Butanone (MEK)	6.374	43	10	0.01 ug/L	52
35) Benzene	6.727	78	30	0.00 ug/L #	41
36) tert-Amyl methyl ether...	6.831	73	219	0.04 ug/L #	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.	
38) iso-Butyl Alcohol	0.000		0	N.D.	
40) Trichloroethene (TCE)	0.000		0	N.D.	
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	7.885	63	10	0.00 ug/L #	1
44) Bromodichloromethane	7.940	83	10	0.00 ug/L #	26
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	8.897	75	10	0.59 ug/L #	33
49) Toluene	9.038	91	10	0.00 ug/L #	30

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042802.D
Acq On : 28 Apr 2020 2:28 pm
Operator : PS
Sample : 0D28059-IBL2
Misc : 1X 5mL DI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 30 09:38:11 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

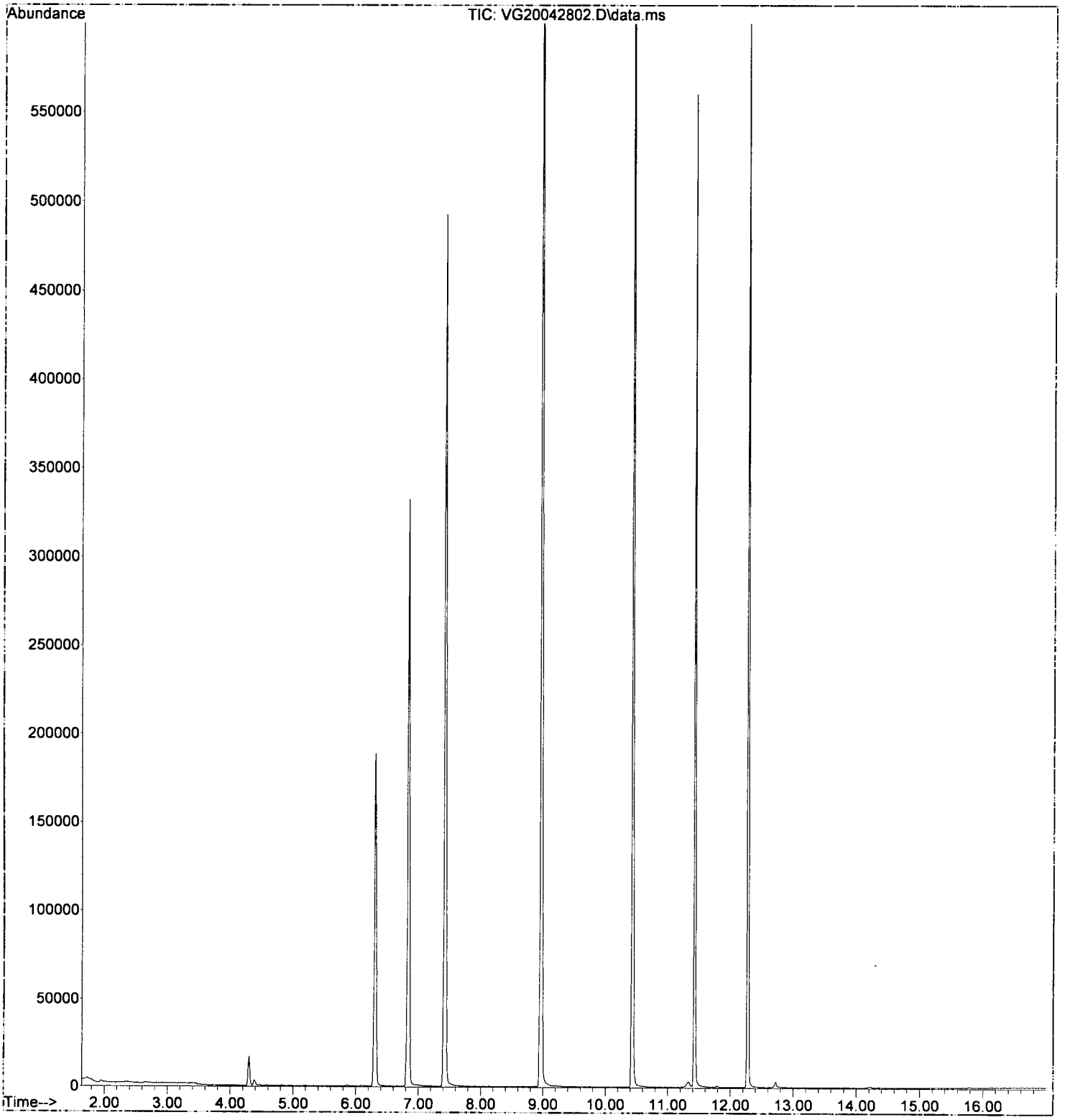
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	23	0.01 ug/L #	24
51) 4-Methyl-2-Pentanone (...	9.391	43	10	0.00 ug/L #	43
52) t-1,3-Dichloropropene	0.000		0	N.D.	
53) 1,1,2-Trichloroethane	9.550	97	10	0.00 ug/L #	12
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	0.000		0	N.D.	
58) Chlorobenzene	10.452	112	11	0.00 ug/L #	1
59) Ethylbenzene	10.476	91	20	0.00 ug/L #	50
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	10.604	91	51	0.15 ug/L #	22
62) o-Xylene	0.000		0	N.D.	
63) Styrene	0.000		0	N.D.	
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	0.000		0	N.D.	
68) Bromobenzene	11.519	156	10	0.00 ug/L #	1
69) n-Propylbenzene	11.531	91	93	0.01 ug/L #	35
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	0.000		0	N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	11.781	91	20	0.00 ug/L #	46
76) tert-Butylbenzene	0.000		0	N.D.	
77) 1,2,4-Trimethylbenzene	11.970	105	18	0.16 ug/L #	36
78) sec-Butylbenzene	11.970	105	18	0.00 ug/L	58
79) 4-Isopropyltoluene	12.153	119	29	0.16 ug/L	51
80) 1,3-Dichlorobenzene	12.287	146	68	0.02 ug/L #	1
81) 1,4-Dichlorobenzene	12.287	146	68	0.01 ug/L #	1
82) n-Butylbenzene	0.000		0	N.D.	
83) 1,2-Dichlorobenzene	0.000		0	N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
87) Naphthalene	0.000		0	N.D.	
88) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042802.D
Acq On : 28 Apr 2020 2:28 pm
Operator : PS
Sample : 0D28059-IBL2
Misc : 1X 5mL DI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 30 09:38:11 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

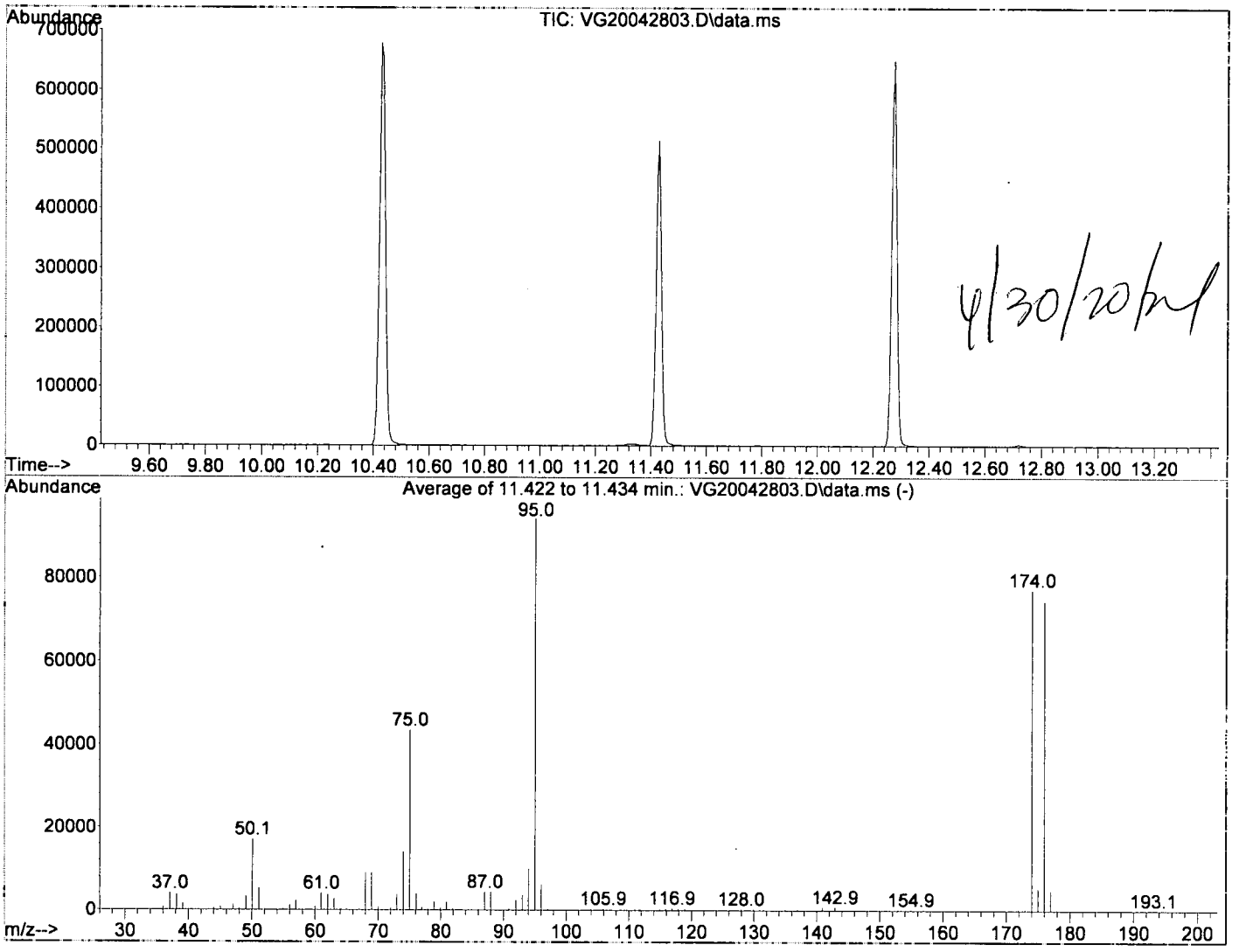


BFB

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042803.D
Acq On : 28 Apr 2020 2:55 pm
Operator : PS
Sample : 0D28059-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Wed Apr 29 15:17:10 2020



4/30/20 MJ

AutoFind: Scans 1605, 1606, 1607; Background Corrected with Scan 1598

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	122.1	94192	PASS
96	95	5	9	6.6	6205	PASS
173	174	0.00	2	0.6	456	PASS
174	95	50	200	81.9	77136	PASS
175	174	5	9	7.0	5387	PASS
176	174	95	105	96.5	74421	PASS
177	176	5	10	6.5	4838	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042803.D
Acq On : 28 Apr 2020 2:55 pm
Operator : PS
Sample : 0D28059-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 30 09:38:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	124093	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	341352	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	142707	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	123436	50.03 ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	405997	50.85 ug/L		0.00
48) Toluene-d8 (S)	8.965	98	481590	51.67 ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	119487	52.19 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.972	50	162	0.05 ug/L	#	50
4) Vinyl Chloride	0.000		0	N.D.		
5) Bromomethane	2.533	96	33	0.02 ug/L	#	7
6) Chloroethane	2.716	64	22	Below Cal	#	47
7) Trichlorofluoromethane	2.935	101	10	0.00 ug/L	#	27
8) Ethanol	3.606	45	594	9.24 ug/L		89
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Carbon Disulfide	3.576	76	21	0.00 ug/L		78
11) Freon 113	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Acrolein	0.000		0	N.D.		
14) Methylene Chloride	4.295	84	5930	2.10 ug/L		94
15) Acetone	4.380	43	1661	1.30 ug/L		82
16) t-1,2-Dichloroethene	0.000		0	N.D.		
17) n-Hexane	0.000		0	N.D.		
18) Methyl-tert-butyl-ether	0.000		0	N.D.		
19) tert-Butanol (TBA)	4.819	59	283	0.75 ug/L	#	85
20) Diisopropyl ether (DIPE)	0.000		0	N.D.		
21) 1,1-Dichloroethane	0.000		0	N.D.		
22) Acrylonitrile	0.000		0	N.D.		
23) Vinyl Acetate	0.000		0	N.D.		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.		
25) c-1,2-Dichloroethene	0.000		0	N.D.		
26) 2,2-Dichloropropane	0.000		0	N.D.		
27) Bromochloromethane	0.000		0	N.D.		
28) Chloroform	0.000		0	N.D.		
29) Carbon Tetrachloride	0.000		0	N.D.		
30) Tetrahydrofuran	0.000		0	N.D.		
31) 1,1,1-Trichloroethane	0.000		0	N.D.		
33) 1,1-Dichloropropene	0.000		0	N.D.		
34) 2-Butanone (MEK)	0.000		0	N.D.		
35) Benzene	6.740	78	22	0.00 ug/L		56
36) tert-Amyl methyl ether...	6.837	73	150	0.03 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.		
38) iso-Butyl Alcohol	0.000		0	N.D.		
40) Trichloroethene (TCE)	0.000		0	N.D.		
41) tert-Amyl ethyl ether ...	7.666	59	10	0.00 ug/L	#	21
42) Dibromomethane	0.000		0	N.D.		
43) 1,2-Dichloropropane	7.922	63	10	0.00 ug/L	#	40
44) Bromodichloromethane	8.130	83	10	0.00 ug/L	#	26
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.		
47) c-1,3-Dichloropropene	0.000		0	N.D.		
49) Toluene	9.014	91	103	0.01 ug/L	#	30

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042803.D
Acq On : 28 Apr 2020 2:55 pm
Operator : PS
Sample : 0D28059-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 30 09:38:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

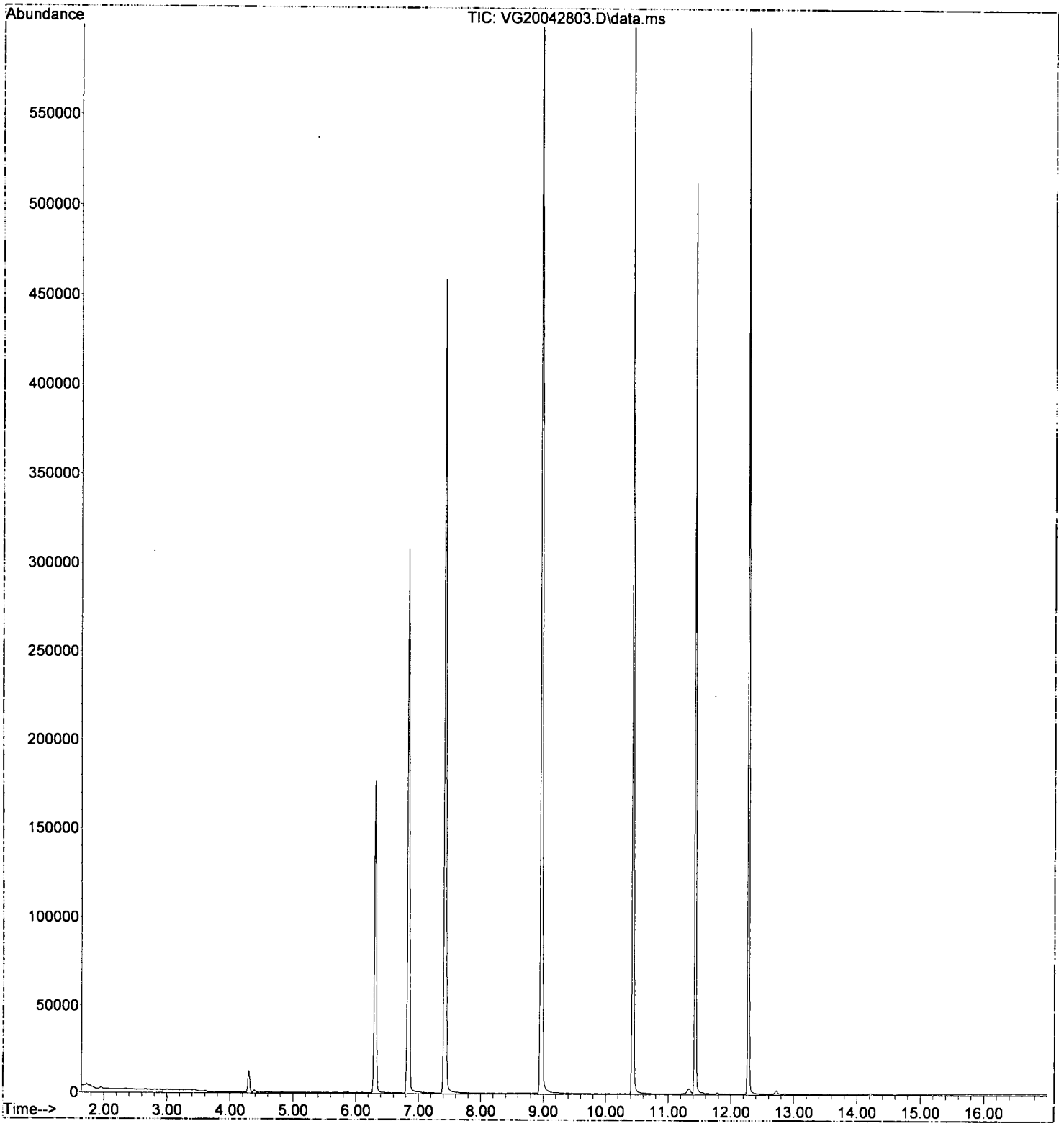
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	0.000		0	N.D.	
51) 4-Methyl-2-Pentanone (...	0.000		0	N.D.	
52) t-1,3-Dichloropropene	0.000		0	N.D.	
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	0.000		0	N.D.	
58) Chlorobenzene	10.452	112	11	0.00 ug/L #	1
59) Ethylbenzene	10.477	91	12	0.00 ug/L #	50
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	10.605	91	24	0.14 ug/L #	34
62) o-Xylene	0.000		0	N.D.	
63) Styrene	0.000		0	N.D.	
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	0.000		0	N.D.	
68) Bromobenzene	11.422	156	63	0.03 ug/L #	1
69) n-Propylbenzene	11.544	91	42	0.00 ug/L	56
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	0.000		0	N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	11.672	91	10	0.00 ug/L #	46
76) tert-Butylbenzene	0.000		0	N.D.	
77) 1,2,4-Trimethylbenzene	0.000		0	N.D.	
78) sec-Butylbenzene	0.000		0	N.D.	
79) 4-Isopropyltoluene	12.141	119	10	0.16 ug/L	51
80) 1,3-Dichlorobenzene	12.293	146	41	0.01 ug/L #	1
81) 1,4-Dichlorobenzene	12.293	146	41	0.01 ug/L #	1
82) n-Butylbenzene	12.476	91	19	0.00 ug/L #	32
83) 1,2-Dichlorobenzene	0.000		0	N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
87) Naphthalene	0.000		0	N.D.	
88) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042803.D
Acq On : 28 Apr 2020 2:55 pm
Operator : PS
Sample : 0D28059-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 30 09:38:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042804.D
Acq On : 28 Apr 2020 3:22 pm
Operator : PS
Sample : 0D28059-ICB1
Misc : 1X 5mL DI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 30 09:38:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	129312	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	360314	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	151240	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	129593	50.41 ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	430329	51.72 ug/L		0.00
48) Toluene-d8 (S)	8.965	98	507019	51.54 ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.427	174	126557	52.16 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.978	50	111	0.03 ug/L	#	50
4) Vinyl Chloride	0.000		0	N.D.		
5) Bromomethane	2.533	96	140	0.07 ug/L		74
6) Chloroethane	2.728	64	37	Below Cal	#	47
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethanol	3.612	45	351	5.24 ug/L		76
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Carbon Disulfide	0.000		0	N.D.		
11) Freon 113	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Acrolein	0.000		0	N.D.		
14) Methylene Chloride	4.295	84	6371	2.16 ug/L		98
15) Acetone	4.380	43	1339	1.01 ug/L		89
16) t-1,2-Dichloroethene	0.000		0	N.D.		
17) n-Hexane	0.000		0	N.D.		
18) Methyl-tert-butyl-ether	0.000		0	N.D.		
19) tert-Butanol (TBA)	4.807	59	391	1.00 ug/L	#	53
20) Diisopropyl ether (DIPE)	0.000		0	N.D.		
21) 1,1-Dichloroethane	0.000		0	N.D.		
22) Acrylonitrile	0.000		0	N.D.		
23) Vinyl Acetate	0.000		0	N.D.		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.		
25) c-1,2-Dichloroethene	0.000		0	N.D.		
26) 2,2-Dichloropropane	5.880	77	11	0.01 ug/L	#	32
27) Bromochloromethane	0.000		0	N.D.		
28) Chloroform	0.000		0	N.D.		
29) Carbon Tetrachloride	0.000		0	N.D.		
30) Tetrahydrofuran	0.000		0	N.D.		
31) 1,1,1-Trichloroethane	0.000		0	N.D.		
33) 1,1-Dichloropropene	0.000		0	N.D.		
34) 2-Butanone (MEK)	0.000		0	N.D.		
35) Benzene	6.727	78	21	0.00 ug/L		56
36) tert-Amyl methyl ether...	6.825	73	168	0.03 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.		
38) iso-Butyl Alcohol	0.000		0	N.D.		
40) Trichloroethene (TCE)	0.000		0	N.D.		
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	0.000		0	N.D.		
43) 1,2-Dichloropropane	0.000		0	N.D.		
44) Bromodichloromethane	0.000		0	N.D.		
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.		
47) c-1,3-Dichloropropene	0.000		0	N.D.		
49) Toluene	9.007	91	79	0.01 ug/L	#	30

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042804.D
Acq On : 28 Apr 2020 3:22 pm
Operator : PS
Sample : 0D28059-ICB1
Misc : 1X 5mL DI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 30 09:38:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

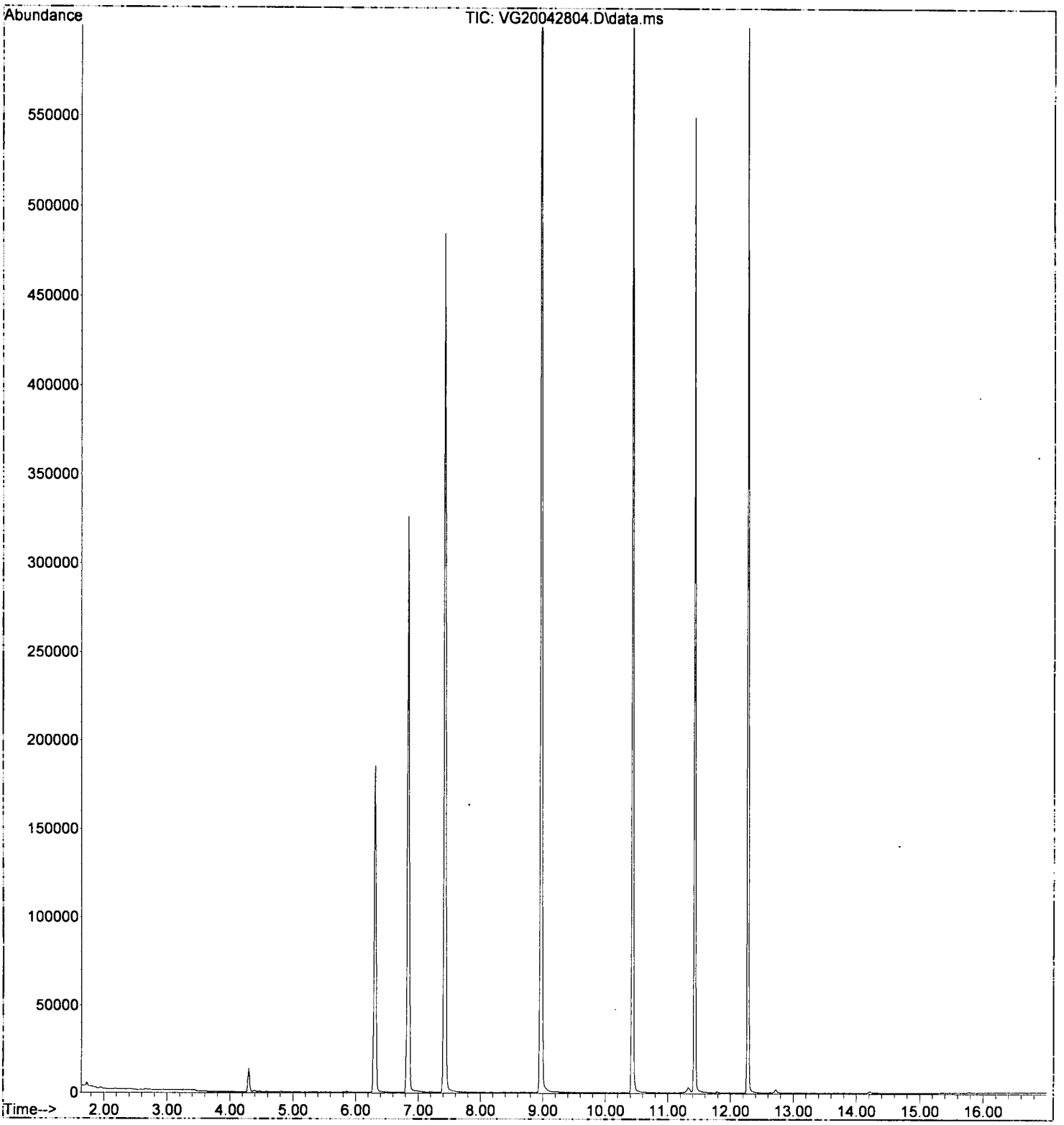
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.422	166	10	0.00 ug/L #	24
51) 4-Methyl-2-Pentanone (...	9.434	43	11	0.00 ug/L #	43
52) t-1,3-Dichloropropene	0.000		0	N.D.	
53) 1,1,2-Trichloroethane	9.696	97	10	0.00 ug/L #	12
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	10.111	43	10	0.00 ug/L #	32
58) Chlorobenzene	10.452	112	10	0.00 ug/L #	1
59) Ethylbenzene	10.434	91	734	0.07 ug/L #	1
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	10.604	91	61	0.15 ug/L #	34
62) o-Xylene	0.000		0	N.D.	
63) Styrene	0.000		0	N.D.	
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	0.000		0	N.D.	
68) Bromobenzene	0.000		0	N.D.	
69) n-Propylbenzene	11.543	91	10	0.00 ug/L	56
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	0.000		0	N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	0.000		0	N.D.	
76) tert-Butylbenzene	0.000		0	N.D.	
77) 1,2,4-Trimethylbenzene	0.000		0	N.D.	
78) sec-Butylbenzene	0.000		0	N.D.	
79) 4-Isopropyltoluene	12.147	119	11	0.16 ug/L #	12
80) 1,3-Dichlorobenzene	0.000		0	N.D.	
81) 1,4-Dichlorobenzene	0.000		0	N.D.	
82) n-Butylbenzene	0.000		0	N.D.	
83) 1,2-Dichlorobenzene	0.000		0	N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
87) Naphthalene	0.000		0	N.D.	
88) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042804.D
Acq On : 28 Apr 2020 3:22 pm
Operator : PS
Sample : 0D28059-ICB1
Misc : 1X 5mL DI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 30 09:38:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:35:56 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	113531	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	310108	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	129589	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	112724	53.18	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	368655	54.10	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	437447	53.71	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	107903	49.26	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	304	0.14	ug/L		81
3) Chloromethane	1.978	50	466	0.22	ug/L		94
4) Vinyl Chloride	2.100	62	315	0.14	ug/L	#	53
5) Bromomethane	2.527	96	385	0.27	ug/L	#	67
6) Chloroethane	2.722	64	290	0.11	ug/L	#	63
7) Trichlorofluoromethane	2.917	101	352	0.12	ug/L		95
8) Ethanol	3.618	45	653	12.61	ug/L		72
9) 1,1-Dichloroethene	3.563	61	356	0.12	ug/L	#	63
10) Carbon Disulfide	3.569	76	488	0.13	ug/L		78
11) Freon 113	3.655	101	229	0.12	ug/L	#	60
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	0.000		0	N.D.	d		
14) Methylene Chloride	4.301	84	3714	1.80	ug/L		90
15) Acetone	4.392	43	1500	1.41	ug/L		85
16) t-1,2-Dichloroethene	4.490	61	387	0.14	ug/L		77
17) n-Hexane	0.000		0	N.D.			
18) Methyl-tert-butyl-ether	4.636	73	537	0.12	ug/L		57
19) tert-Butanol (TBA)	4.807	59	2202	7.18	ug/L	#	38
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	d		
21) 1,1-Dichloroethane	5.197	63	440	0.12	ug/L		74
22) Acrylonitrile	0.000		0	N.D.	d		
23) Vinyl Acetate	0.000		0	N.D.	d		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	d		
25) c-1,2-Dichloroethene	5.801	61	306	0.12	ug/L	#	73
26) 2,2-Dichloropropane	5.923	77	151	0.10	ug/L	#	32
27) Bromochloromethane	6.020	49	271	0.15	ug/L		74
28) Chloroform	6.106	83	470	0.13	ug/L		89
29) Carbon Tetrachloride	6.246	117	41	0.02	ug/L		86
30) Tetrahydrofuran	0.000		0	N.D.	d		
31) 1,1,1-Trichloroethane	6.319	97	352	0.13	ug/L		84
33) 1,1-Dichloropropene	6.465	75	257	0.11	ug/L	#	39
34) 2-Butanone (MEK)	0.000		0	N.D.	d		
35) Benzene	6.733	78	1003	0.13	ug/L		95
36) tert-Amyl methyl ether...	0.000		0	N.D.	d		
37) 1,2-Dichloroethane (EDC)	6.959	62	343	0.12	ug/L		78
38) iso-Butyl Alcohol	7.032	43	384	2.04	ug/L		80
40) Trichloroethene (TCE)	7.392	130	318	0.13	ug/L	#	77
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	d		
42) Dibromomethane	7.843	93	185	0.14	ug/L	#	1
43) 1,2-Dichloropropane	7.977	63	244	0.12	ug/L	#	36
44) Bromodichloromethane	8.050	83	206	0.09	ug/L		91
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	d		
47) c-1,3-Dichloropropene	8.782	75	199	0.09	ug/L	#	52
49) Toluene	9.026	91	1265	0.14	ug/L		81

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:35:56 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	188	0.08 ug/L	79
51) 4-Methyl-2-Pentanone (...	9.440	43	425	0.14 ug/L	78
52) t-1,3-Dichloropropene	9.465	75	132	0.39 ug/L #	45
53) 1,1,2-Trichloroethane	9.617	97	221	0.11 ug/L #	54
54) Dibromochloromethane	9.769	129	141	0.25 ug/L #	55
55) 1,3-Dichloropropane	9.861	76	384	0.12 ug/L	78
56) 1,2-Dibromoethane (EDB)	9.989	107	135	0.06 ug/L	77
57) 2-Hexanone	10.221	43	181	0.08 ug/L	63
58) Chlorobenzene	10.446	112	784	0.13 ug/L #	23
59) Ethylbenzene	10.477	91	1080	0.11 ug/L	93
60) 1,1,1,2-Tetrachloroethane	10.507	131	140	0.08 ug/L #	69
61) m,p-Xylenes (2)	10.599	91	1169	0.23 ug/L	97
62) o-Xylene	10.946	91	660	0.17 ug/L	80
63) Styrene	11.013	104	277	0.39 ug/L	68
64) Bromoform	11.019	173	71	0.39 ug/L #	37
65) Isopropylbenzene	11.202	105	595	0.35 ug/L	89
68) Bromobenzene	11.507	156	220	0.10 ug/L #	64
69) n-Propylbenzene	11.525	91	972	0.12 ug/L	92
70) 1,1,2,2-Tetrachloroethane	11.598	83	312	0.14 ug/L #	55
71) 2-Chlorotoluene	11.659	126	191	0.11 ug/L #	49
72) 1,3,5-Trimethylbenzene	11.678	105	506	0.10 ug/L	79
73) 1,2,3-Trichloropropane	11.696	110	68	0.09 ug/L #	71
74) t-1,4-Dichloro-2-butene	0.000		0	N.D. d	
75) 4-Chlorotoluene	11.781	91	557	0.11 ug/L	91
76) tert-Butylbenzene	11.915	91	357	0.13 ug/L #	55
77) 1,2,4-Trimethylbenzene	11.970	105	468	0.09 ug/L	93
78) sec-Butylbenzene	12.043	105	570	0.10 ug/L	97
79) 4-Isopropyltoluene	12.147	119	409	0.22 ug/L	82
80) 1,3-Dichlorobenzene	12.226	146	351	0.10 ug/L	85
81) 1,4-Dichlorobenzene	12.281	146	460	0.12 ug/L #	1
82) n-Butylbenzene	12.476	91	402	0.10 ug/L	73
83) 1,2-Dichlorobenzene	12.616	146	327	0.10 ug/L	90
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D. d	
86) 1,2,4-Trichlorobenzene	13.872	180	99	0.06 ug/L #	60
87) Naphthalene	14.189	128	291	0.96 ug/L	79
88) 1,2,3-Trichlorobenzene	0.000		0	N.D. d	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:27:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/20 mf

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	113531	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	310108	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	129589	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	112724	53.18	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	368655	54.10	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	437447	53.71	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	107903	49.26	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	304	0.14	ug/L		81
3) Chloromethane	1.978	50	466	0.22	ug/L		94
4) Vinyl Chloride	2.100	62	315	0.14	ug/L	#	53
5) Bromomethane	2.527	96	385	0.27	ug/L	#	67
6) Chloroethane	2.722	64	290	0.11	ug/L	#	63
7) Trichlorofluoromethane	2.917	101	352	0.12	ug/L		95
8) Ethanol	3.618	45	653	12.61	ug/L		72
9) 1,1-Dichloroethene	3.563	61	356	0.12	ug/L	#	63
10) Carbon Disulfide	3.569	76	488	0.13	ug/L		78
11) Freon 113	3.655	101	229	0.12	ug/L	#	60
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	4.008	56	19	0.04	ug/L	#	23
14) Methylene Chloride	4.301	84	3714	1.80	ug/L		90
15) Acetone	4.392	43	1500	1.41	ug/L		85
16) t-1,2-Dichloroethene	4.490	61	387	0.14	ug/L		77
17) n-Hexane	0.000		0	N.D.			
18) Methyl-tert-butyl-ether	4.636	73	537	0.12	ug/L		57
19) tert-Butanol (TBA)	4.807	59	2202	7.18	ug/L	#	38
20) Diisopropyl ether (DIPE)	5.094	45	115	0.02	ug/L	#	33
21) 1,1-Dichloroethane	5.197	63	440	0.12	ug/L		74
22) Acrylonitrile	5.270	53	10	0.01	ug/L	#	14
23) Vinyl Acetate	5.532	43	10	0.61	ug/L		74
24) Ethyl-tert-butyl ether...	5.478	59	46	0.01	ug/L	#	38
25) c-1,2-Dichloroethene	5.801	61	306	0.12	ug/L	#	73
26) 2,2-Dichloropropane	5.923	77	151	0.10	ug/L	#	32
27) Bromochloromethane	6.020	49	271	0.15	ug/L		74
28) Chloroform	6.106	83	470	0.13	ug/L		89
29) Carbon Tetrachloride	6.246	117	41	0.02	ug/L		86
30) Tetrahydrofuran	6.301	42	10	0.01	ug/L	#	37
31) 1,1,1-Trichloroethane	6.319	97	352	0.13	ug/L		84
33) 1,1-Dichloropropene	6.465	75	257	0.11	ug/L	#	39
34) 2-Butanone (MEK)	6.490	43	113	0.07	ug/L		52
35) Benzene	6.733	78	1003	0.13	ug/L		95
36) tert-Amyl methyl ether...	6.843	73	311	0.08	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.959	62	343	0.12	ug/L		78
38) iso-Butyl Alcohol	7.032	43	384	2.04	ug/L		80
40) Trichloroethene (TCE)	7.392	130	318	0.13	ug/L	#	77
41) tert-Amyl ethyl ether ...	7.654	59	11	0.00	ug/L	#	21
42) Dibromomethane	7.843	93	185	0.14	ug/L	#	1
43) 1,2-Dichloropropane	7.977	63	244	0.12	ug/L	#	36
44) Bromodichloromethane	8.050	83	206	0.09	ug/L		91
46) 2-Chloroethyl Vinyl Ether	8.733	63	21	0.02	ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	199	0.09	ug/L	#	52
49) Toluene	9.026	91	1265	0.14	ug/L		81

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:27:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

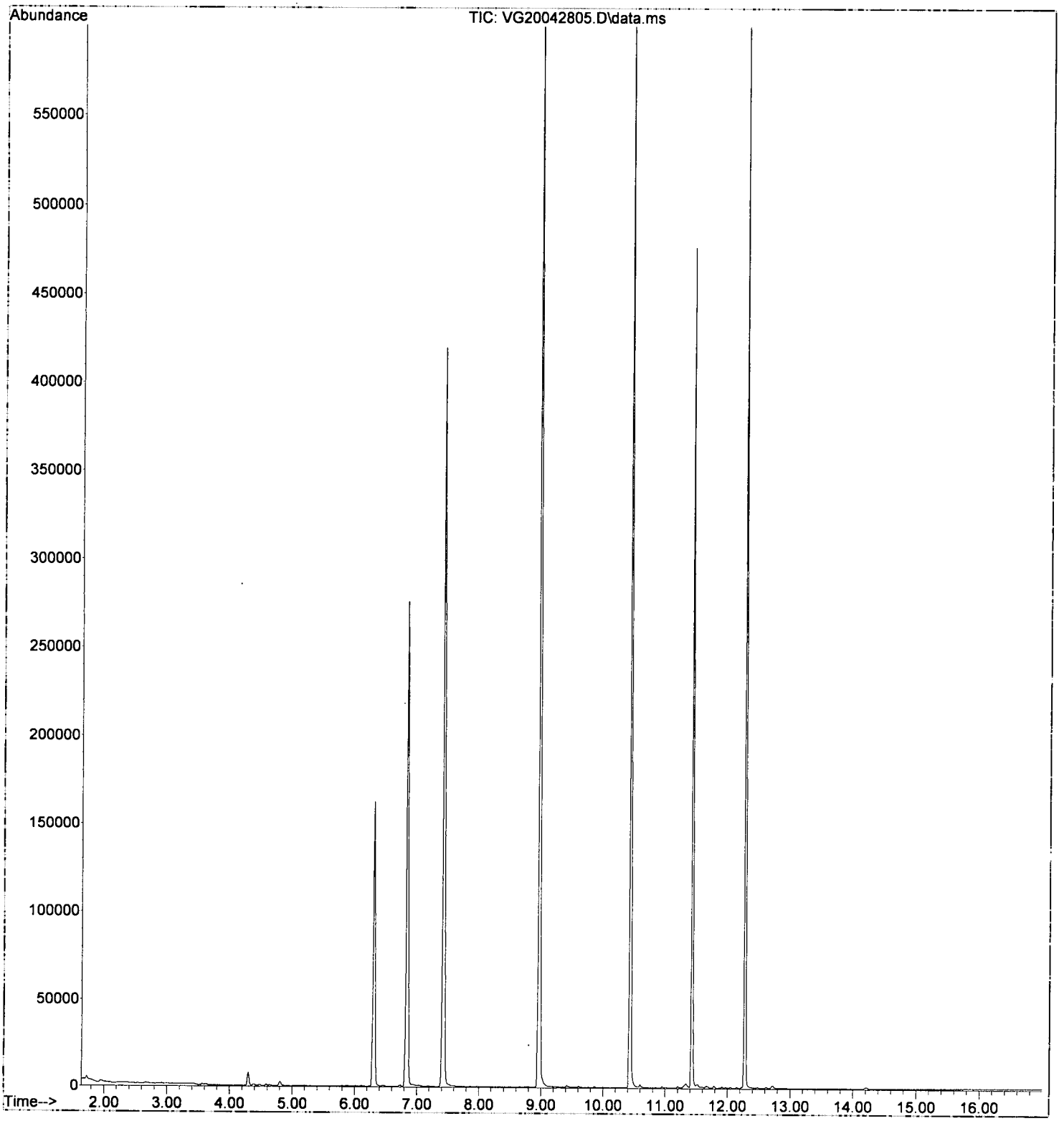
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	188	0.08	ug/L		79
51) 4-Methyl-2-Pentanone (...	9.440	43	425	0.14	ug/L		78
52) t-1,3-Dichloropropene	9.465	75	132	0.39	ug/L	#	45
53) 1,1,2-Trichloroethane	9.617	97	221	0.11	ug/L	#	54
54) Dibromochloromethane	9.769	129	141	0.25	ug/L	#	55
55) 1,3-Dichloropropane	9.861	76	384	0.12	ug/L		78
56) 1,2-Dibromoethane (EDB)	9.989	107	135	0.06	ug/L		77
57) 2-Hexanone	10.221	43	181	0.08	ug/L		63
58) Chlorobenzene	10.446	112	784	0.13	ug/L	#	23
59) Ethylbenzene	10.477	91	1080	0.11	ug/L		93
60) 1,1,1,2-Tetrachloroethane	10.507	131	140	0.08	ug/L	#	69
61) m,p-Xylenes (2)	10.599	91	1169	0.23	ug/L		97
62) o-Xylene	10.946	91	660	0.17	ug/L		80
63) Styrene	11.013	104	277	0.09	ug/L		68
64) Bromoform	11.019	173	71	0.09	ug/L	#	37
65) Isopropylbenzene	11.202	105	595	0.15	ug/L		89
68) Bromobenzene	11.507	156	220	0.10	ug/L	#	64
69) n-Propylbenzene	11.525	91	972	0.12	ug/L		92
70) 1,1,2,2-Tetrachloroethane	11.598	83	312	0.14	ug/L	#	55
71) 2-Chlorotoluene	11.659	126	191	0.11	ug/L	#	49
72) 1,3,5-Trimethylbenzene	11.678	105	506	0.10	ug/L		79
73) 1,2,3-Trichloropropane	11.696	110	68	0.09	ug/L	#	71
74) t-1,4-Dichloro-2-butene	11.781	88	10	1.24	ug/L	#	1
75) 4-Chlorotoluene	11.781	91	557	0.11	ug/L		91
76) tert-Butylbenzene	11.915	91	357	0.13	ug/L	#	55
77) 1,2,4-Trimethylbenzene	11.970	105	468	0.09	ug/L		93
78) sec-Butylbenzene	12.043	105	570	0.10	ug/L		97
79) 4-Isopropyltoluene	12.147	119	409	0.22	ug/L		82
80) 1,3-Dichlorobenzene	12.226	146	351	0.10	ug/L		85
81) 1,4-Dichlorobenzene	12.281	146	460	0.12	ug/L	#	1
82) n-Butylbenzene	12.476	91	402	0.10	ug/L		73
83) 1,2-Dichlorobenzene	12.616	146	327	0.10	ug/L		90
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.			
85) Hexachlorobutadiene	13.811	223	12	0.03	ug/L	#	5
86) 1,2,4-Trichlorobenzene	13.872	180	99	0.06	ug/L	#	60
87) Naphthalene	14.189	128	291	0.96	ug/L		79
88) 1,2,3-Trichlorobenzene	14.366	180	41	0.02	ug/L	#	62

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:35:56 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:38:18 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	Qion	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	125854	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	351200	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	147833	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	126891	54.00	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	415901	55.06	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	494085	53.56	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	122178	48.89	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	527	0.23	ug/L		97
3) Chloromethane	1.984	50	787	0.33	ug/L		86
4) Vinyl Chloride	2.094	62	651	0.26	ug/L		75
5) Bromomethane	2.533	96	645	0.40	ug/L		94
6) Chloroethane	2.716	64	472	0.27	ug/L		89
7) Trichlorofluoromethane	2.911	101	715	0.22	ug/L		84
8) Ethanol	3.612	45	941	16.39	ug/L		87
9) 1,1-Dichloroethene	3.563	61	711	0.22	ug/L		91
10) Carbon Disulfide	3.563	76	850	0.20	ug/L		78
11) Freon 113	3.649	101	435	0.21	ug/L		91
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	0.000		0	N.D.	d		
14) Methylene Chloride	4.301	84	5057	2.21	ug/L		98
15) Acetone	4.392	43	1950	1.65	ug/L		98
16) t-1,2-Dichloroethene	4.490	61	652	0.22	ug/L		96
17) n-Hexane	4.588	86	27	0.10	ug/L	#	19
18) Methyl-tert-butyl-ether	4.642	73	917	0.18	ug/L		88
19) tert-Butanol (TBA)	4.801	59	4291	12.63	ug/L	#	42
20) Diisopropyl ether (DIPE)	5.100	45	271	0.05	ug/L		58
21) 1,1-Dichloroethane	5.185	63	879	0.22	ug/L		81
22) Acrylonitrile	0.000		0	N.D.	d		
23) Vinyl Acetate	0.000		0	N.D.	d		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	d		
25) c-1,2-Dichloroethene	5.807	61	606	0.21	ug/L		85
26) 2,2-Dichloropropane	5.910	77	410	0.24	ug/L		69
27) Bromochloromethane	6.014	49	526	0.27	ug/L		85
28) Chloroform	6.112	83	849	0.22	ug/L		95
29) Carbon Tetrachloride	6.234	117	279	0.13	ug/L		83
30) Tetrahydrofuran	6.301	42	176	0.16	ug/L	#	64
31) 1,1,1-Trichloroethane	6.313	97	542	0.19	ug/L		82
33) 1,1-Dichloropropene	6.453	75	553	0.21	ug/L		82
34) 2-Butanone (MEK)	0.000		0	N.D.	d		
35) Benzene	6.727	78	1916	0.22	ug/L		93
36) tert-Amyl methyl ether...	0.000		0	N.D.	d		
37) 1,2-Dichloroethane (EDC)	6.965	62	715	0.22	ug/L		83
38) iso-Butyl Alcohol	7.038	43	824m	3.96	ug/L		
40) Trichloroethene (TCE)	7.386	130	572	0.22	ug/L		82
41) tert-Amyl ethyl ether ...	7.660	59	92	0.03	ug/L		90
42) Dibromomethane	7.861	93	297	0.20	ug/L	#	59
43) 1,2-Dichloropropane	7.971	63	510	0.22	ug/L		81
44) Bromodichloromethane	8.050	83	496	0.20	ug/L		90
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	d		
47) c-1,3-Dichloropropene	8.782	75	475	0.18	ug/L		80
49) Toluene	9.020	91	2257	0.22	ug/L		95

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:38:18 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

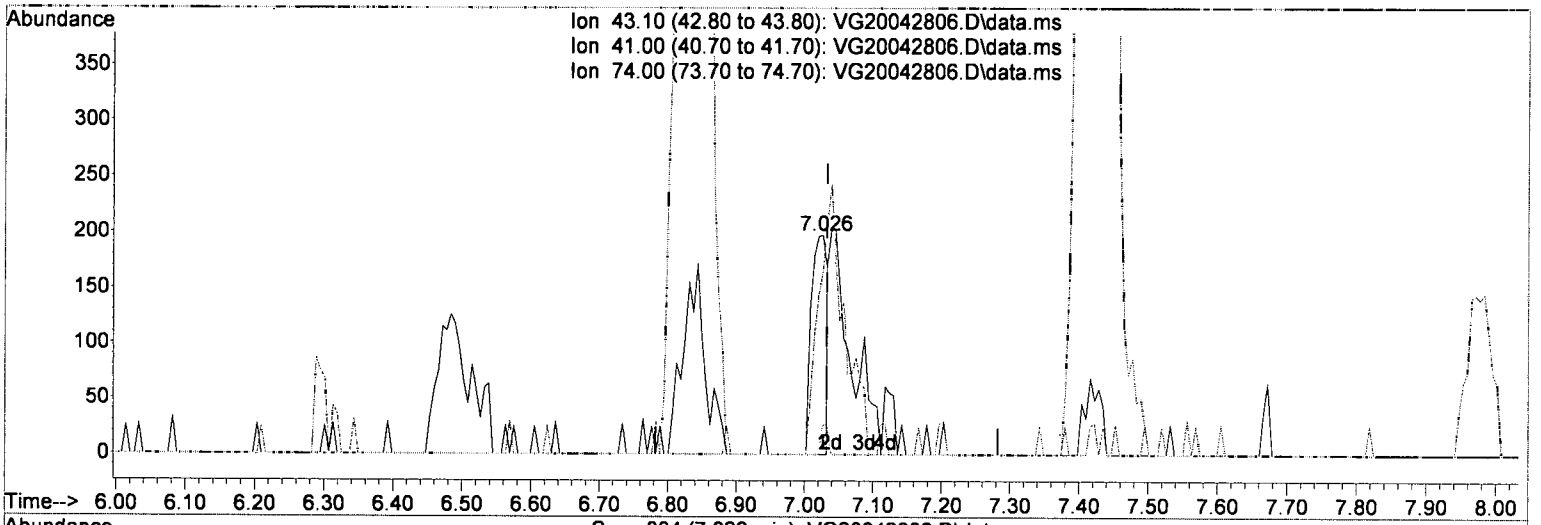
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	432	0.16	ug/L		80
51) 4-Methyl-2-Pentanone (...	9.428	43	1009	0.29	ug/L		91
52) t-1,3-Dichloropropene	9.459	75	262	0.43	ug/L		72
53) 1,1,2-Trichloroethane	9.605	97	483	0.21	ug/L		87
54) Dibromochloromethane	9.776	129	285	0.30	ug/L		88
55) 1,3-Dichloropropane	9.861	76	668	0.18	ug/L		83
56) 1,2-Dibromoethane (EDB)	9.983	107	377	0.16	ug/L		74
57) 2-Hexanone	10.202	43	490	0.18	ug/L		70
58) Chlorobenzene	10.440	112	1372	0.20	ug/L	#	1
59) Ethylbenzene	10.471	91	1953	0.18	ug/L		94
60) 1,1,1,2-Tetrachloroethane	10.501	131	402	0.20	ug/L	#	52
61) m,p-Xylenes (2)	10.592	91	2530	0.38	ug/L		91
62) o-Xylene	10.952	91	1046	0.20	ug/L		91
63) Styrene	11.007	104	645	0.44	ug/L		90
64) Bromoform	11.025	173	181	0.44	ug/L		87
65) Isopropylbenzene	11.208	105	1157	0.41	ug/L		87
68) Bromobenzene	11.507	156	477	0.19	ug/L	#	72
69) n-Propylbenzene	11.525	91	1758	0.19	ug/L		91
70) 1,1,2,2-Tetrachloroethane	11.586	83	560	0.22	ug/L		94
71) 2-Chlorotoluene	11.653	126	365	0.18	ug/L		83
72) 1,3,5-Trimethylbenzene	11.672	105	901	0.15	ug/L		95
73) 1,2,3-Trichloropropane	11.696	110	184	0.21	ug/L	#	63
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	d		
75) 4-Chlorotoluene	11.787	91	1076	0.19	ug/L		93
76) tert-Butylbenzene	11.915	91	592	0.19	ug/L	#	65
77) 1,2,4-Trimethylbenzene	11.970	105	860	0.15	ug/L		94
78) sec-Butylbenzene	12.050	105	1055	0.16	ug/L		95
79) 4-Isopropyltoluene	12.147	119	770	0.27	ug/L		98
80) 1,3-Dichlorobenzene	12.226	146	720	0.19	ug/L		79
81) 1,4-Dichlorobenzene	12.287	146	974	0.22	ug/L	#	70
82) n-Butylbenzene	12.476	91	781	0.17	ug/L		86
83) 1,2-Dichlorobenzene	12.616	146	615	0.16	ug/L		83
84) 1,2-Dibromo-3-Chloropr...	13.269	157	62	0.10	ug/L	#	15
85) Hexachlorobutadiene	13.811	223	70	0.14	ug/L	#	17
86) 1,2,4-Trichlorobenzene	13.860	180	239	0.12	ug/L	#	61
87) Naphthalene	14.189	128	494	0.98	ug/L		79
88) 1,2,3-Trichlorobenzene	14.372	180	236	0.12	ug/L		80

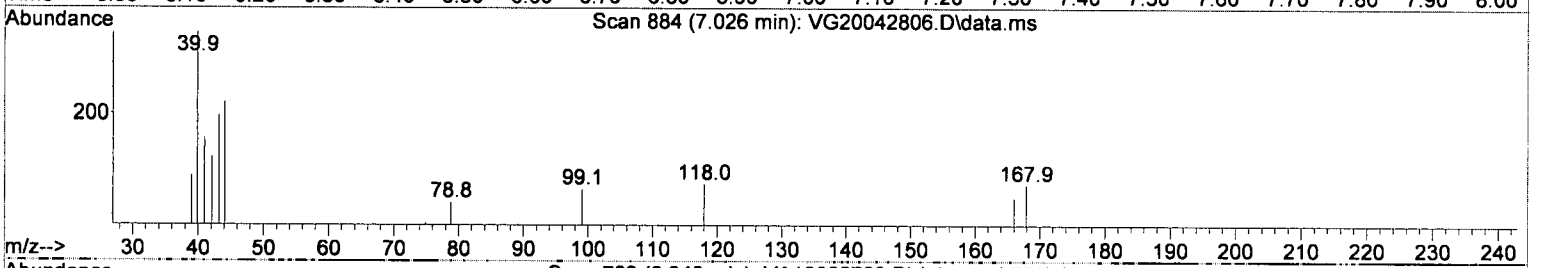
(#) = qualifier out of range (m) = manual integration (+) = signals summed

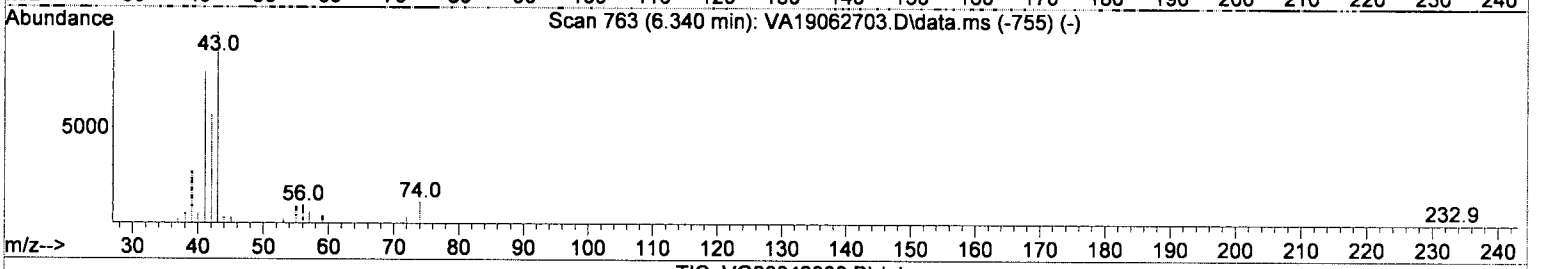
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:27:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042806.D\data.ms

(38) iso-Butyl Alcohol

7.026min (-0.006) 1.53 ug/L

response 319

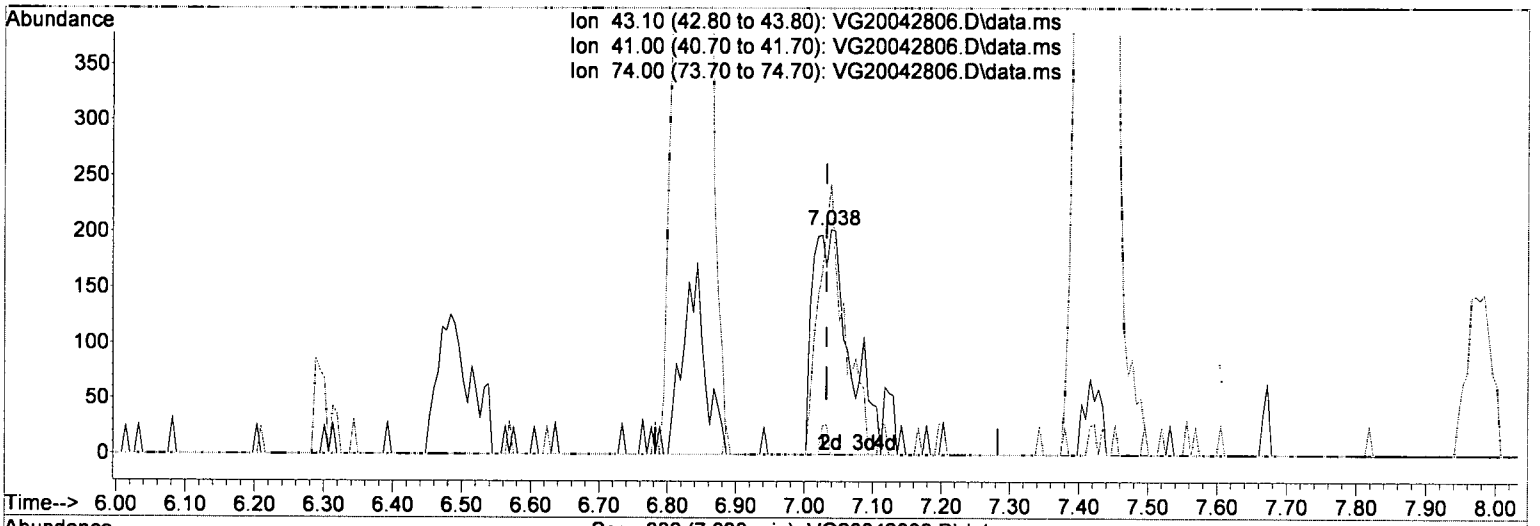
Ion	Exp%	Act%
43.10	100.00	100.00
41.00	71.80	83.25
74.00	11.60	13.20
0.00	0.00	0.00

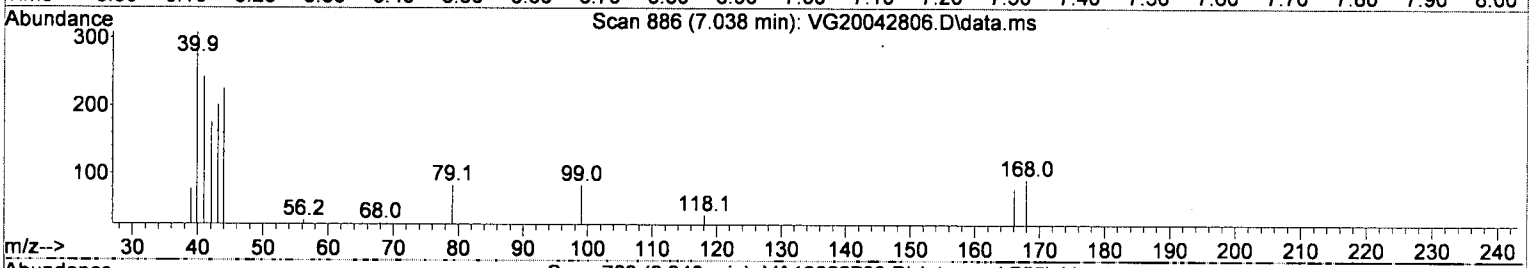
(ME) 4/30/2020

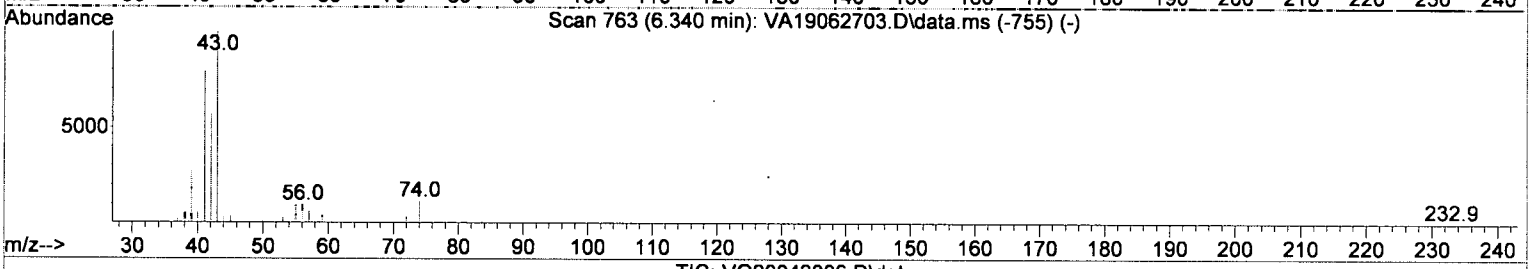
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:27:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042806.D\data.ms

(38) iso-Butyl Alcohol

7.038min (+ 0.006) 3.96 ug/L m

response 824

Ion	Exp%	Act%
43.10	100.00	100.00
41.00	71.80	120.30#
74.00	11.60	0.00
0.00	0.00	0.00

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:27:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	125854	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	351200	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	147833	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	126891	54.00	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	415901	55.06	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	494085	53.56	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	122178	48.89	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	527	0.23	ug/L		97
3) Chloromethane	1.984	50	787	0.33	ug/L		86
4) Vinyl Chloride	2.094	62	651	0.26	ug/L		75
5) Bromomethane	2.533	96	645	0.40	ug/L		94
6) Chloroethane	2.716	64	472	0.27	ug/L		89
7) Trichlorofluoromethane	2.911	101	715	0.22	ug/L		84
8) Ethanol	3.612	45	941	16.39	ug/L		87
9) 1,1-Dichloroethene	3.563	61	711	0.22	ug/L		91
10) Carbon Disulfide	3.563	76	850	0.20	ug/L		78
11) Freon 113	3.649	101	435	0.21	ug/L		91
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	4.015	56	45	0.09	ug/L		82
14) Methylene Chloride	4.301	84	5057	2.21	ug/L		98
15) Acetone	4.392	43	1950	1.65	ug/L		98
16) t-1,2-Dichloroethene	4.490	61	652	0.22	ug/L		96
17) n-Hexane	4.588	86	27	0.10	ug/L	#	19
18) Methyl-tert-butyl-ether	4.642	73	917	0.18	ug/L		88
19) tert-Butanol (TBA)	4.801	59	4291	12.63	ug/L	#	42
20) Diisopropyl ether (DIPE)	5.100	45	271	0.05	ug/L		58
21) 1,1-Dichloroethane	5.185	63	879	0.22	ug/L		81
22) Acrylonitrile	5.289	53	64	0.05	ug/L		91
23) Vinyl Acetate	5.557	43	55	0.63	ug/L		74
24) Ethyl-tert-butyl ether...	5.484	59	160	0.04	ug/L	#	56
25) c-1,2-Dichloroethene	5.807	61	606	0.21	ug/L		85
26) 2,2-Dichloropropane	5.910	77	410	0.24	ug/L		69
27) Bromochloromethane	6.014	49	526	0.27	ug/L		85
28) Chloroform	6.112	83	849	0.22	ug/L		95
29) Carbon Tetrachloride	6.234	117	279	0.13	ug/L		83
30) Tetrahydrofuran	6.301	42	176	0.16	ug/L	#	64
31) 1,1,1-Trichloroethane	6.313	97	542	0.19	ug/L		82
33) 1,1-Dichloropropene	6.453	75	553	0.21	ug/L		82
34) 2-Butanone (MEK)	6.484	43	308	0.18	ug/L		52
35) Benzene	6.727	78	1916	0.22	ug/L		93
36) tert-Amyl methyl ether...	6.849	73	459	0.11	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.965	62	715	0.22	ug/L		83
38) iso-Butyl Alcohol	7.026	43	319	1.53	ug/L		88
40) Trichloroethene (TCE)	7.386	130	572	0.22	ug/L		82
41) tert-Amyl ethyl ether ...	7.660	59	92	0.03	ug/L		90
42) Dibromomethane	7.861	93	297	0.20	ug/L	#	59
43) 1,2-Dichloropropane	7.971	63	510	0.22	ug/L		81
44) Bromodichloromethane	8.050	83	496	0.20	ug/L		90
46) 2-Chloroethyl Vinyl Ether	8.745	63	32	0.02	ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	475	0.18	ug/L		80
49) Toluene	9.020	91	2257	0.22	ug/L		95

4/29/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:27:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

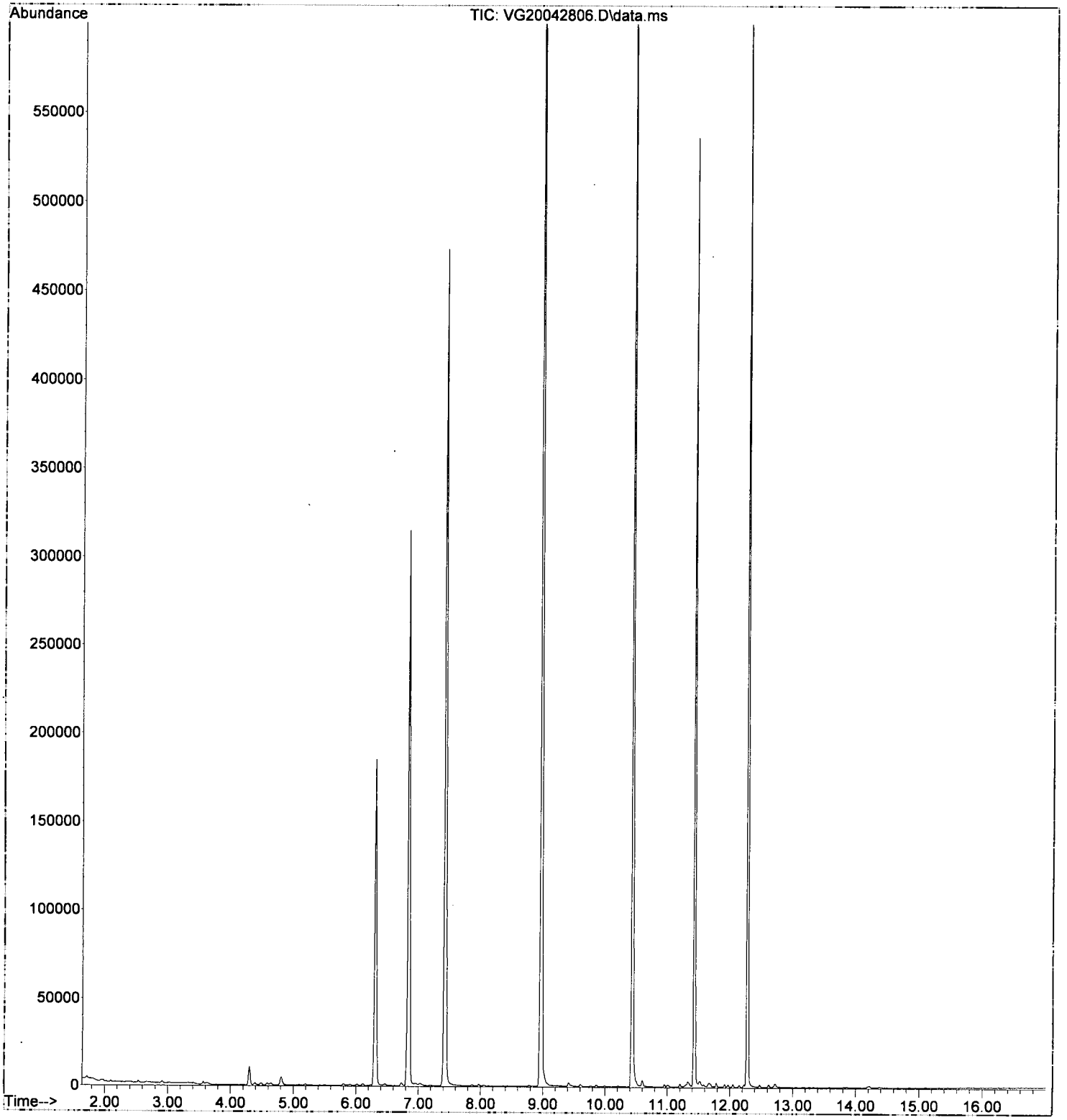
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	432	0.16	ug/L		80
51) 4-Methyl-2-Pentanone (...	9.428	43	1009	0.29	ug/L		91
52) t-1,3-Dichloropropene	9.459	75	262	0.43	ug/L		72
53) 1,1,2-Trichloroethane	9.605	97	483	0.21	ug/L		87
54) Dibromochloromethane	9.776	129	285	0.30	ug/L		88
55) 1,3-Dichloropropane	9.861	76	668	0.18	ug/L		83
56) 1,2-Dibromoethane (EDB)	9.983	107	377	0.16	ug/L		74
57) 2-Hexanone	10.202	43	490	0.13	ug/L		70
58) Chlorobenzene	10.440	112	1372	0.20	ug/L	#	1
59) Ethylbenzene	10.471	91	1953	0.18	ug/L		94
60) 1,1,1,2-Tetrachloroethane	10.501	131	402	0.20	ug/L	#	52
61) m,p-Xylenes (2)	10.592	91	2530	0.38	ug/L		91
62) o-Xylene	10.952	91	1046	0.20	ug/L		91
63) Styrene	11.007	104	645	0.44	ug/L		90
64) Bromoform	11.025	173	181	0.44	ug/L		87
65) Isopropylbenzene	11.208	105	1157	0.41	ug/L		87
68) Bromobenzene	11.507	156	477	0.19	ug/L	#	72
69) n-Propylbenzene	11.525	91	1758	0.19	ug/L		91
70) 1,1,2,2-Tetrachloroethane	11.586	83	560	0.22	ug/L		94
71) 2-Chlorotoluene	11.653	126	365	0.18	ug/L		83
72) 1,3,5-Trimethylbenzene	11.672	105	901	0.15	ug/L		95
73) 1,2,3-Trichloropropane	11.696	110	184	0.21	ug/L	#	63
74) t-1,4-Dichloro-2-butene	11.629	88	10	1.24	ug/L	#	1
75) 4-Chlorotoluene	11.787	91	1076	0.19	ug/L		93
76) tert-Butylbenzene	11.915	91	592	0.19	ug/L	#	65
77) 1,2,4-Trimethylbenzene	11.970	105	860	0.15	ug/L		94
78) sec-Butylbenzene	12.050	105	1055	0.16	ug/L		95
79) 4-Isopropyltoluene	12.147	119	770	0.27	ug/L		98
80) 1,3-Dichlorobenzene	12.226	146	720	0.19	ug/L		79
81) 1,4-Dichlorobenzene	12.287	146	974	0.22	ug/L	#	70
82) n-Butylbenzene	12.476	91	781	0.17	ug/L		86
83) 1,2-Dichlorobenzene	12.616	146	615	0.16	ug/L		83
84) 1,2-Dibromo-3-Chloropr...	13.269	157	62	0.10	ug/L	#	15
85) Hexachlorobutadiene	13.811	223	70	0.14	ug/L	#	17
86) 1,2,4-Trichlorobenzene	13.860	180	239	0.12	ug/L	#	61
87) Naphthalene	14.189	128	494	0.98	ug/L		79
88) 1,2,3-Trichlorobenzene	14.372	180	236	0.12	ug/L		80

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:38:18 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:40:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	130111	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	361683	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	152333	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	129856	53.45	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	427126	54.70	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	501453	52.79	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	126405	49.09	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	1133	0.47	ug/L		100
3) Chloromethane	1.978	50	1524	0.63	ug/L		93
4) Vinyl Chloride	2.100	62	1260	0.48	ug/L		84
5) Bromomethane	2.533	96	1137	0.69	ug/L		97
6) Chloroethane	2.710	64	872	0.66	ug/L		88
7) Trichlorofluoromethane	2.911	101	1409	0.42	ug/L		94
8) Ethanol	3.606	45	1862	31.37	ug/L		76
9) 1,1-Dichloroethene	3.569	61	1450	0.44	ug/L		95
10) Carbon Disulfide	3.569	76	1760	0.41	ug/L		98
11) Freon 113	3.643	101	969	0.46	ug/L		84
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	4.014	56	172	0.35	ug/L		80
14) Methylene Chloride	4.295	84	4387	1.86	ug/L		91
15) Acetone	4.386	43	2217	1.82	ug/L		100
16) t-1,2-Dichloroethene	4.490	61	1351	0.44	ug/L		93
17) n-Hexane	4.575	86	75	0.27	ug/L	#	36
18) Methyl-tert-butyl-ether	4.649	73	2007	0.39	ug/L		91
19) tert-Butanol (TBA)	4.807	59	7948	22.62	ug/L	#	48
20) Diisopropyl ether (DIPE)	5.087	45	602	0.10	ug/L		94
21) 1,1-Dichloroethane	5.191	63	1856	0.46	ug/L		92
22) Acrylonitrile	0.000		0	N.D.	d		
23) Vinyl Acetate	0.000		0	N.D.	d		
24) Ethyl-tert-butyl ether...	5.484	59	425m	0.09	ug/L		
25) c-1,2-Dichloroethene	5.801	61	1211	0.41	ug/L		84
26) 2,2-Dichloropropane	5.904	77	753	0.44	ug/L	#	67
27) Bromochloromethane	6.014	49	1078	0.53	ug/L		83
28) Chloroform	6.112	83	1724	0.43	ug/L		87
29) Carbon Tetrachloride	6.240	117	619	0.29	ug/L		85
30) Tetrahydrofuran	6.295	42	390	0.35	ug/L		85
31) 1,1,1-Trichloroethane	6.313	97	1239	0.41	ug/L		94
33) 1,1-Dichloropropene	6.459	75	1041	0.38	ug/L		84
34) 2-Butanone (MEK)	6.490	43	1046	0.59	ug/L		79
35) Benzene	6.733	78	3614	0.40	ug/L		97
36) tert-Amyl methyl ether...	6.837	73	229	0.05	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.959	62	1349	0.41	ug/L		94
38) iso-Butyl Alcohol	7.032	43	1632	7.58	ug/L		74
40) Trichloroethene (TCE)	7.386	130	1209	0.44	ug/L		87
41) tert-Amyl ethyl ether ...	7.666	59	340	0.12	ug/L	#	62
42) Dibromomethane	7.861	93	686	0.44	ug/L		75
43) 1,2-Dichloropropane	7.971	63	1082	0.45	ug/L		89
44) Bromodichloromethane	8.050	83	1003	0.39	ug/L		86
46) 2-Chloroethyl Vinyl Ether	8.745	63	119	0.08	ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	977	0.36	ug/L		87
49) Toluene	9.020	91	4633	0.44	ug/L		97

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:40:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

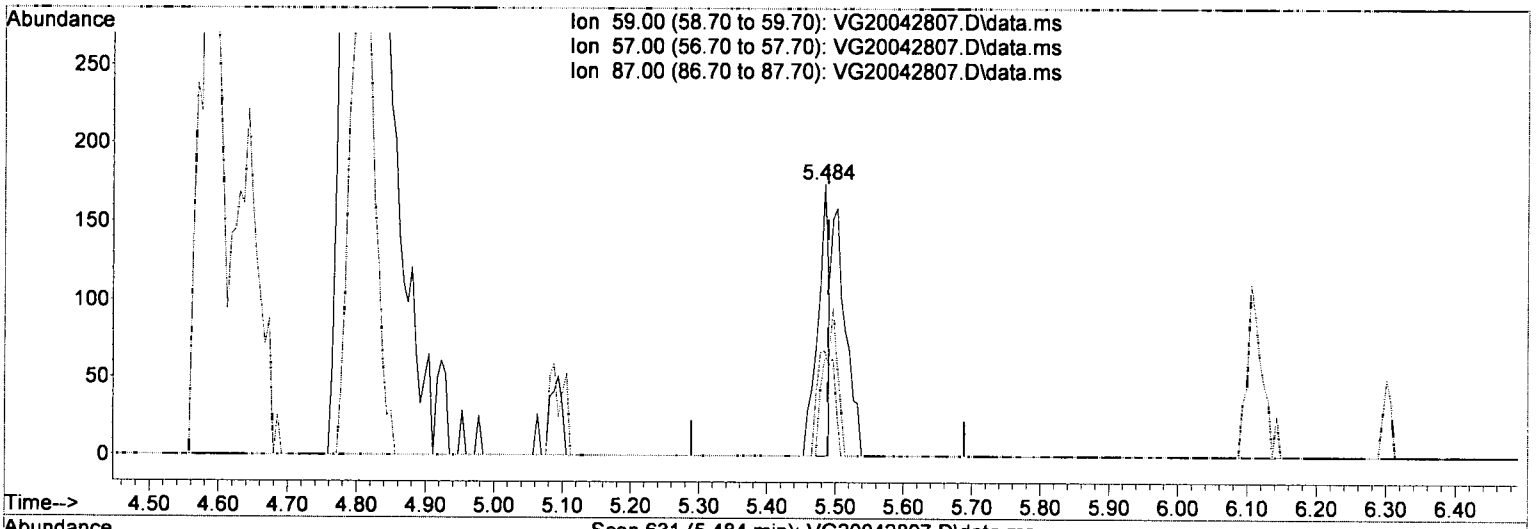
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	1014	0.37	ug/L		96
51) 4-Methyl-2-Pentanone (...	9.428	43	2070	0.57	ug/L		83
52) t-1,3-Dichloropropene	9.459	75	712	0.58	ug/L		91
53) 1,1,2-Trichloroethane	9.611	97	1003	0.42	ug/L		94
54) Dibromochloromethane	9.769	129	627	0.44	ug/L		80
55) 1,3-Dichloropropane	9.861	76	1557	0.42	ug/L		93
56) 1,2-Dibromoethane (EDB)	9.989	107	856	0.35	ug/L		90
57) 2-Hexanone	10.202	43	1203m	0.44	ug/L		
58) Chlorobenzene	10.446	112	2815	0.40	ug/L		75
59) Ethylbenzene	10.471	91	4039	0.37	ug/L		97
60) 1,1,1,2-Tetrachloroethane	10.501	131	700	0.34	ug/L	#	60
61) m,p-Xylenes (2)	10.599	91	4861	0.65	ug/L		95
62) o-Xylene	10.952	91	2184	0.34	ug/L		96
63) Styrene	11.001	104	1543	0.57	ug/L		87
64) Bromoform	11.019	173	411	0.57	ug/L		83
65) Isopropylbenzene	11.202	105	2263	0.52	ug/L		94
68) Bromobenzene	11.513	156	1011	0.38	ug/L		90
69) n-Propylbenzene	11.525	91	3735	0.40	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.586	83	1213	0.46	ug/L		92
71) 2-Chlorotoluene	11.653	126	753	0.37	ug/L	#	81
72) 1,3,5-Trimethylbenzene	11.672	105	2046	0.34	ug/L		97
73) 1,2,3-Trichloropropane	11.690	110	379	0.41	ug/L	#	74
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.			
75) 4-Chlorotoluene	11.781	91	2118	0.37	ug/L		95
76) tert-Butylbenzene	11.909	91	1103	0.34	ug/L		82
77) 1,2,4-Trimethylbenzene	11.970	105	1738	0.29	ug/L		99
78) sec-Butylbenzene	12.050	105	2369	0.35	ug/L		93
79) 4-Isopropyltoluene	12.147	119	1664	0.42	ug/L		82
80) 1,3-Dichlorobenzene	12.226	146	1456	0.36	ug/L		92
81) 1,4-Dichlorobenzene	12.287	146	1856	0.41	ug/L	#	69
82) n-Butylbenzene	12.470	91	1571	0.33	ug/L		96
83) 1,2-Dichlorobenzene	12.616	146	1407	0.36	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	13.263	157	156	0.25	ug/L	#	55
85) Hexachlorobutadiene	13.811	223	185	0.35	ug/L	#	72
86) 1,2,4-Trichlorobenzene	13.860	180	554	0.27	ug/L		96
87) Naphthalene	14.189	128	1138	1.07	ug/L		79
88) 1,2,3-Trichlorobenzene	14.378	180	532	0.26	ug/L		77

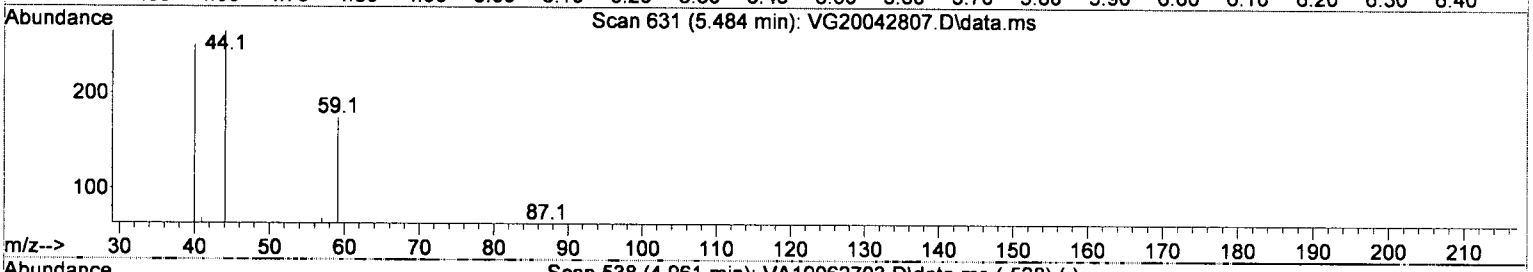
(#) = qualifier out of range (m) = manual integration (+) = signals summed

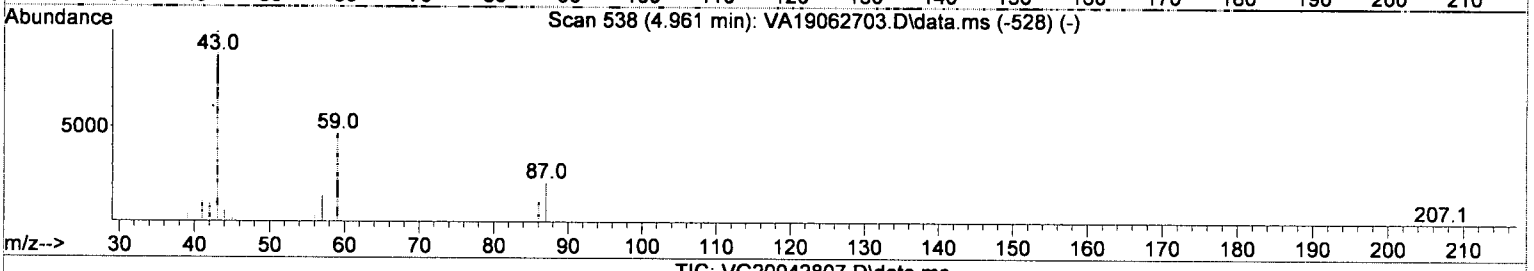
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042807.D\data.ms

(24) Ethyl-tert-butyl ether (ETBE)

5.484min (-0.005) 0.04 ug/L

response 194

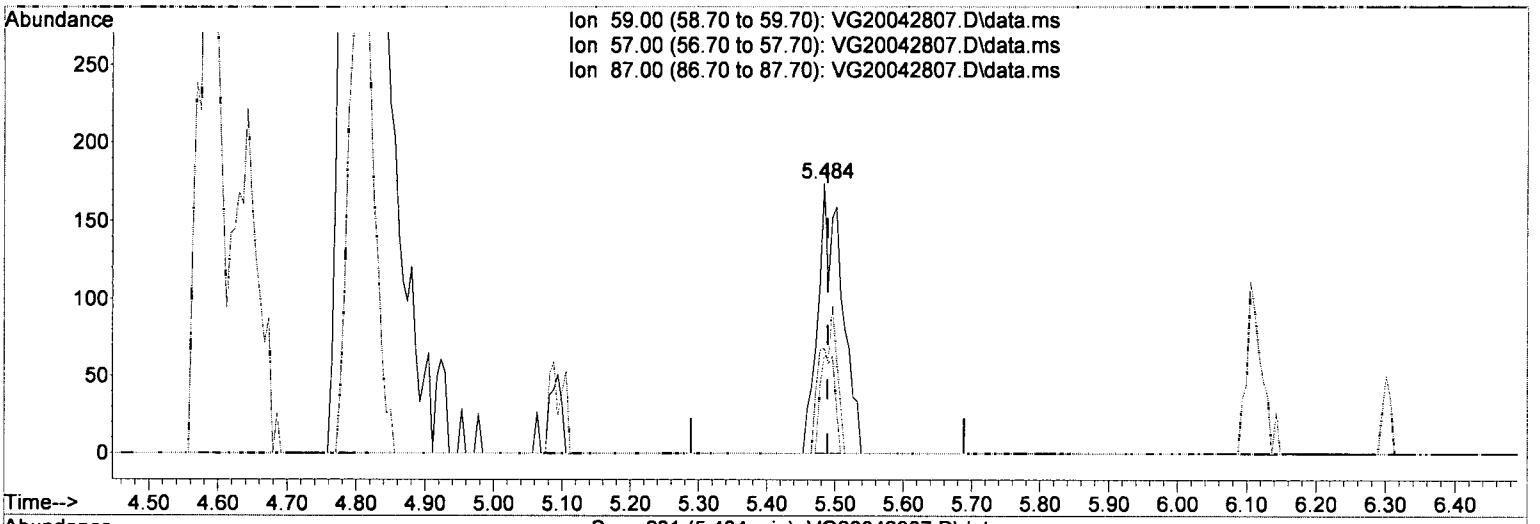
Ion	Exp%	Act%
59.00	100.00	100.00
57.00	30.40	39.08
87.00	42.80	36.21
0.00	0.00	0.00

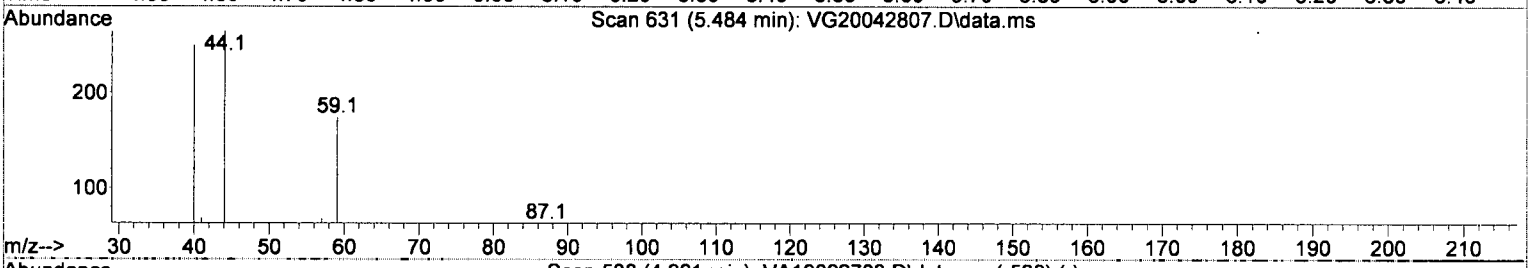
ME 4/30/20 mf

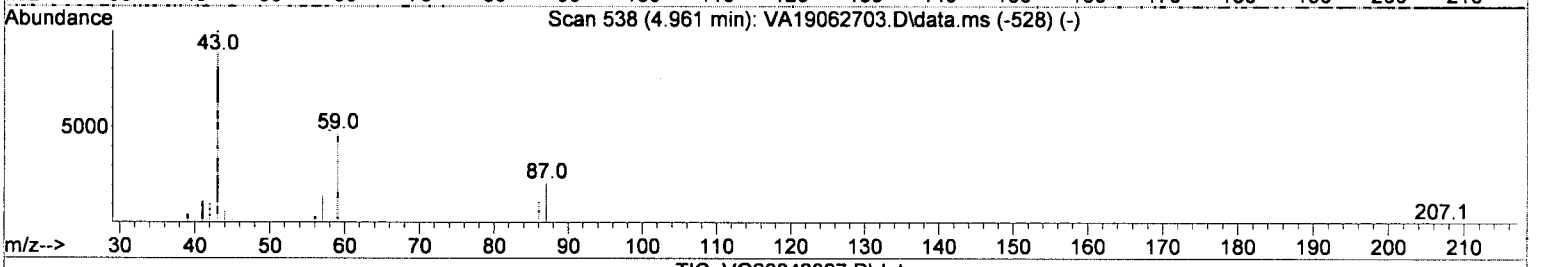
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042807.D\data.ms

(24) Ethyl-tert-butyl ether (ETBE)

5.484min (-0.005) 0.09 ug/L m

response 425

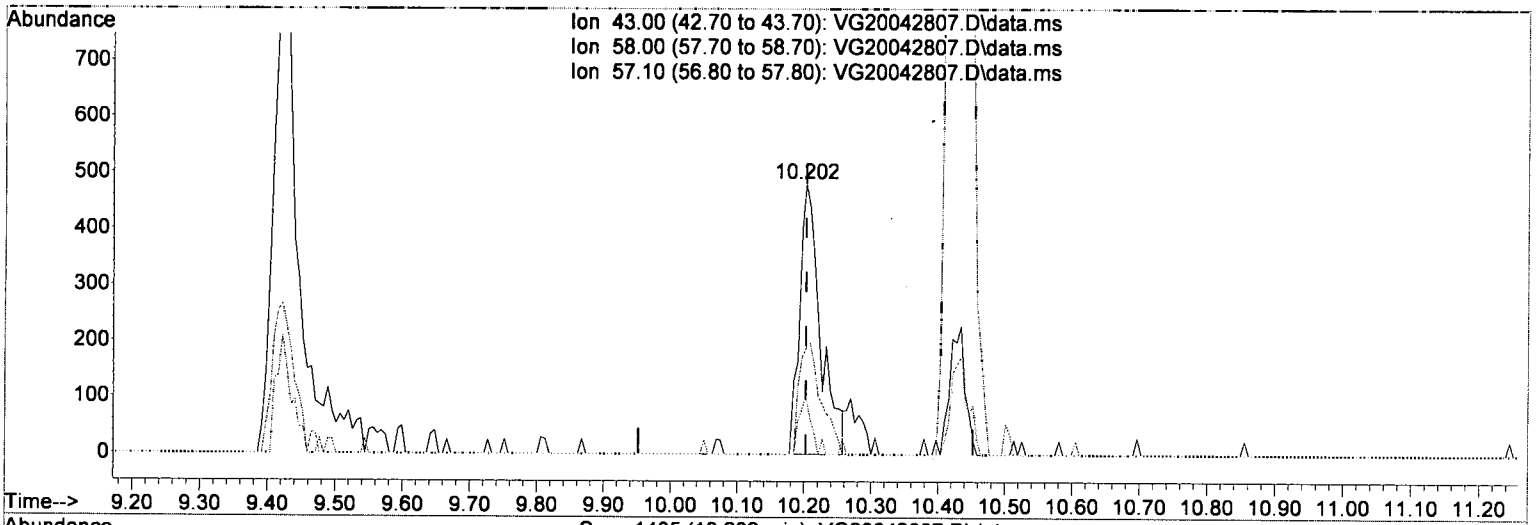
Ion	Exp%	Act%
59.00	100.00	100.00
57.00	30.40	39.08
87.00	42.80	36.21
0.00	0.00	0.00

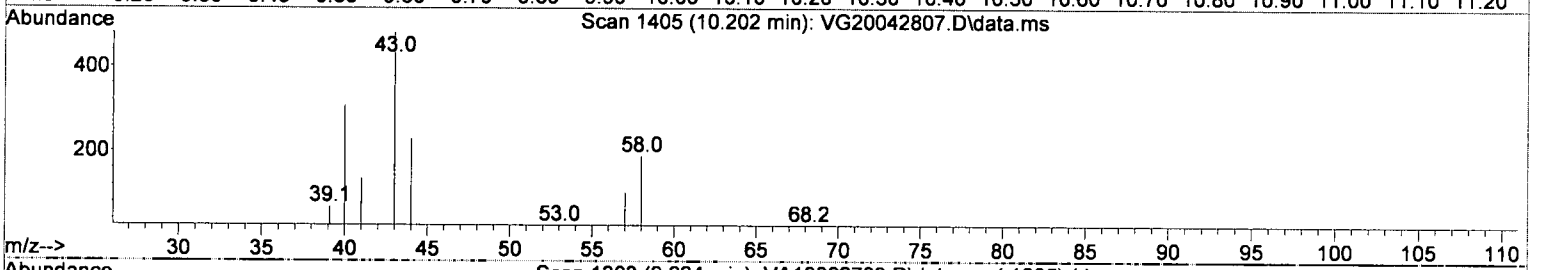
4/30/2020

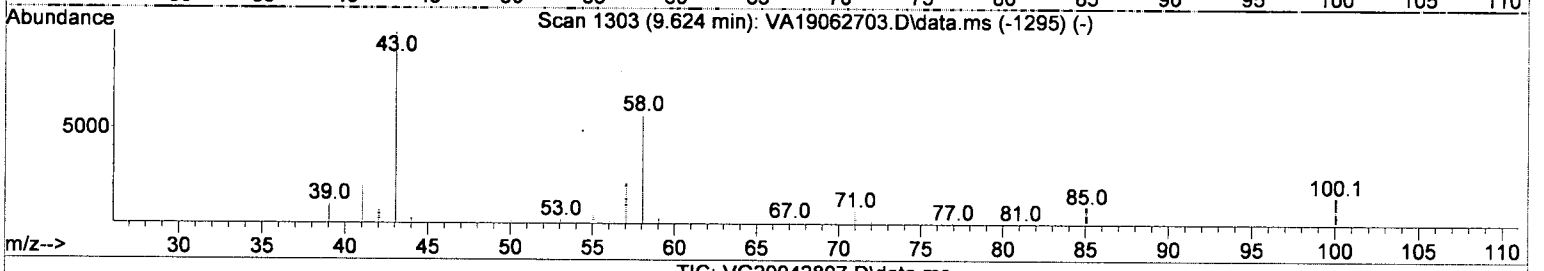
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042807.D\data.ms

(57) 2-Hexanone

10.202min (+ 0.000) 0.38 ug/L

response 1046

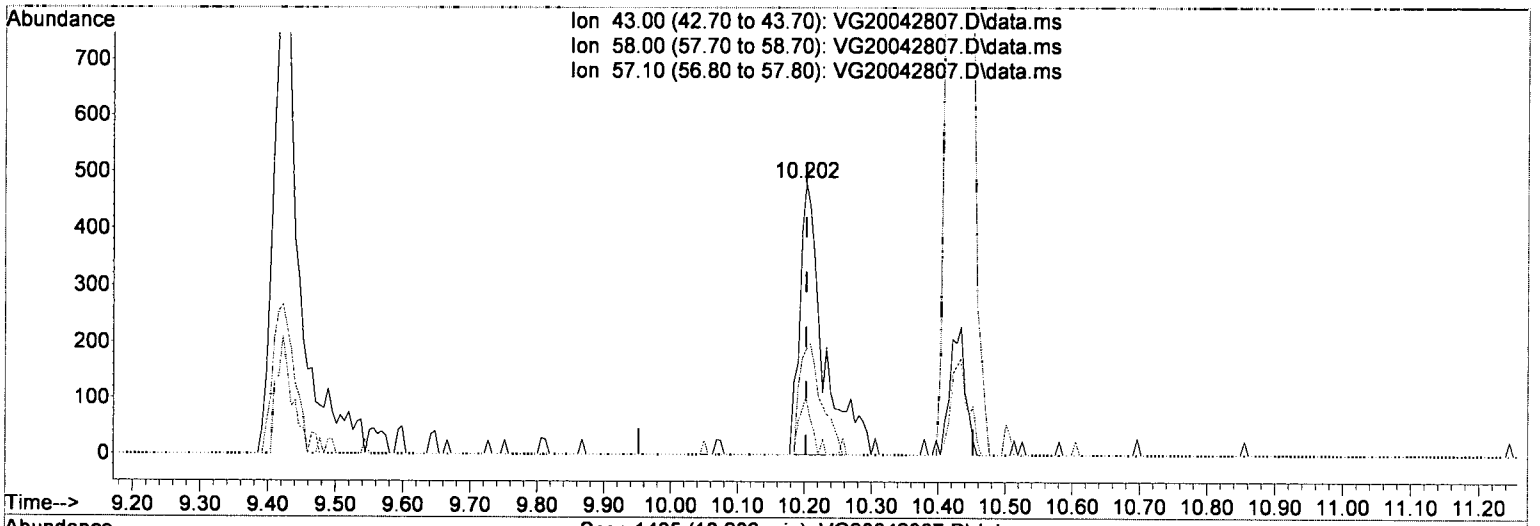
Ion	Exp%	Act%
43.00	100.00	100.00
58.00	55.80	39.29
57.10	18.50	21.41
0.00	0.00	0.00

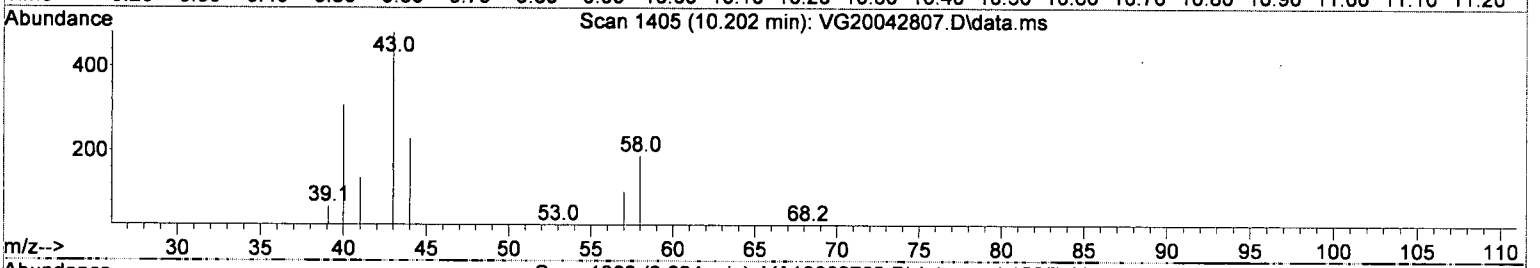
(ML) 4/30/2020

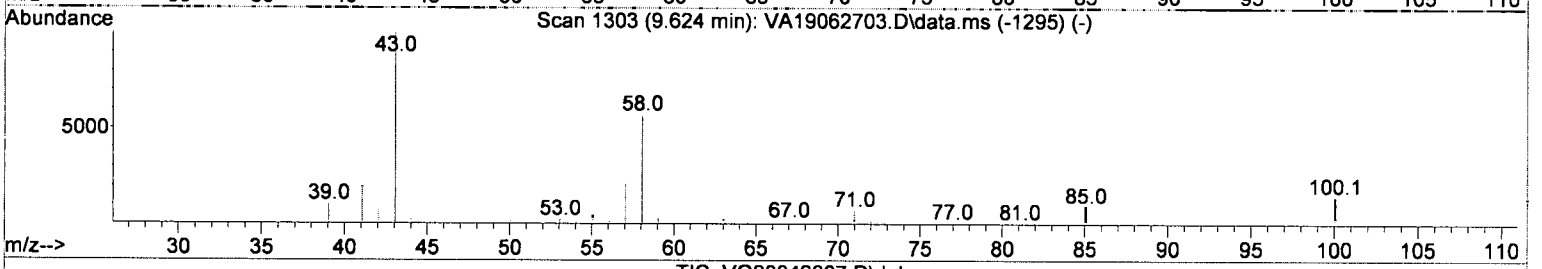
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042807.D\data.ms

(57) 2-Hexanone

10.202min (+ 0.000) 0.44 ug/L m

response 1203

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	55.80	39.29
57.10	18.50	21.41
0.00	0.00	0.00

4/30/20 JM

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/20 mf

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	130111	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	361683	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	152333	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	129856	53.45	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	427126	54.70	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	501453	52.79	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	126405	49.09	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	1133	0.47	ug/L		100
3) Chloromethane	1.978	50	1524	0.63	ug/L		93
4) Vinyl Chloride	2.100	62	1260	0.48	ug/L		84
5) Bromomethane	2.533	96	1137	0.69	ug/L		97
6) Chloroethane	2.710	64	872	0.66	ug/L		88
7) Trichlorofluoromethane	2.911	101	1409	0.42	ug/L		94
8) Ethanol	3.606	45	1862	31.37	ug/L		76
9) 1,1-Dichloroethene	3.569	61	1450	0.44	ug/L		95
10) Carbon Disulfide	3.569	76	1760	0.41	ug/L		98
11) Freon 113	3.643	101	969	0.46	ug/L		84
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	4.014	56	172	0.35	ug/L		80
14) Methylene Chloride	4.295	84	4387	1.86	ug/L		91
15) Acetone	4.386	43	2217	1.82	ug/L		100
16) t-1,2-Dichloroethene	4.490	61	1351	0.44	ug/L		93
17) n-Hexane	4.575	86	75	0.27	ug/L	#	36
18) Methyl-tert-butyl-ether	4.649	73	2007	0.39	ug/L		91
19) tert-Butanol (TBA)	4.807	59	7948	22.62	ug/L	#	48
20) Diisopropyl ether (DIPE)	5.087	45	602	0.10	ug/L		94
21) 1,1-Dichloroethane	5.191	63	1856	0.46	ug/L		92
22) Acrylonitrile	5.240	53	10	0.01	ug/L	#	14
23) Vinyl Acetate	5.490	43	10	0.61	ug/L	#	1
24) Ethyl-tert-butyl ether...	5.484	59	194	0.04	ug/L		87
25) c-1,2-Dichloroethene	5.801	61	1211	0.41	ug/L		84
26) 2,2-Dichloropropane	5.904	77	753	0.44	ug/L	#	67
27) Bromochloromethane	6.014	49	1078	0.53	ug/L		83
28) Chloroform	6.112	83	1724	0.43	ug/L		87
29) Carbon Tetrachloride	6.240	117	619	0.29	ug/L		85
30) Tetrahydrofuran	6.295	42	390	0.35	ug/L		85
31) 1,1,1-Trichloroethane	6.313	97	1239	0.41	ug/L		94
33) 1,1-Dichloropropene	6.459	75	1041	0.38	ug/L		84
34) 2-Butanone (MEK)	6.490	43	1046	0.59	ug/L		79
35) Benzene	6.733	78	3614	0.40	ug/L		97
36) tert-Amyl methyl ether...	6.837	73	229	0.05	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.959	62	1349	0.41	ug/L		94
38) iso-Butyl Alcohol	7.032	43	1632	7.58	ug/L		74
40) Trichloroethene (TCE)	7.386	130	1209	0.44	ug/L		87
41) tert-Amyl ethyl ether ...	7.666	59	340	0.12	ug/L	#	62
42) Dibromomethane	7.861	93	686	0.44	ug/L		75
43) 1,2-Dichloropropane	7.971	63	1082	0.45	ug/L		89
44) Bromodichloromethane	8.050	83	1003	0.39	ug/L		86
46) 2-Chloroethyl Vinyl Ether	8.745	63	119	0.08	ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	977	0.36	ug/L		87
49) Toluene	9.020	91	4633	0.44	ug/L		97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

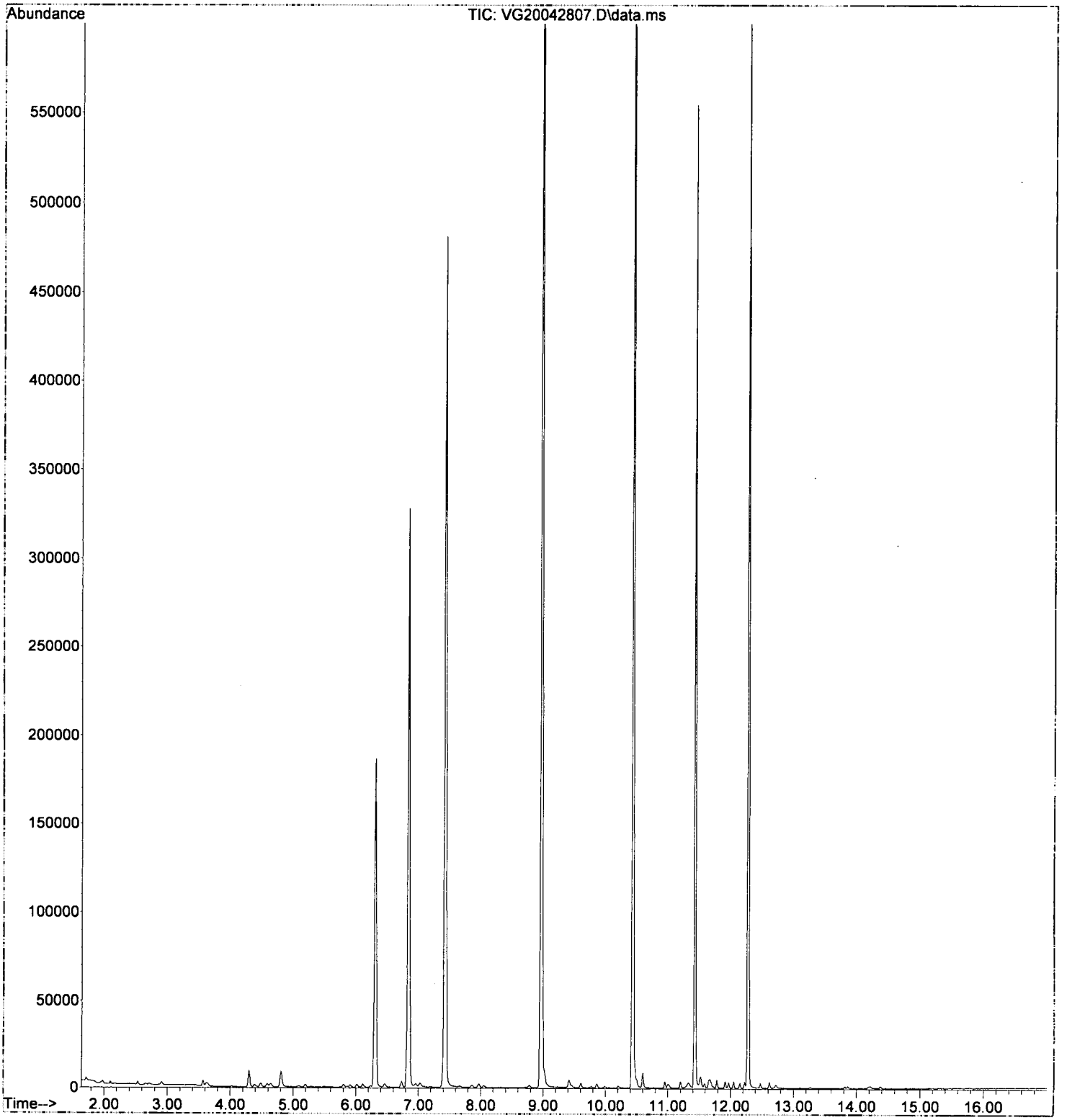
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	1014	0.37	ug/L		96
51) 4-Methyl-2-Pentanone (...	9.428	43	2070	0.57	ug/L		83
52) t-1,3-Dichloropropene	9.459	75	712	0.58	ug/L		91
53) 1,1,2-Trichloroethane	9.611	97	1003	0.42	ug/L		94
54) Dibromochloromethane	9.769	129	627	0.44	ug/L		80
55) 1,3-Dichloropropane	9.861	76	1557	0.42	ug/L		93
56) 1,2-Dibromoethane (EDB)	9.989	107	856	0.35	ug/L		90
57) 2-Hexanone	10.202	43	1046	0.38	ug/L		81
58) Chlorobenzene	10.446	112	2815	0.40	ug/L		75
59) Ethylbenzene	10.471	91	4039	0.37	ug/L		97
60) 1,1,1,2-Tetrachloroethane	10.501	131	700	0.34	ug/L	#	60
61) m,p-Xylenes (2)	10.599	91	4861	0.65	ug/L		95
62) o-Xylene	10.952	91	2184	0.34	ug/L		96
63) Styrene	11.001	104	1543	0.57	ug/L		87
64) Bromoform	11.019	173	411	0.57	ug/L		83
65) Isopropylbenzene	11.202	105	2263	0.52	ug/L		94
68) Bromobenzene	11.513	156	1011	0.38	ug/L		90
69) n-Propylbenzene	11.525	91	3735	0.40	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.586	83	1213	0.46	ug/L		92
71) 2-Chlorotoluene	11.653	126	753	0.37	ug/L	#	81
72) 1,3,5-Trimethylbenzene	11.672	105	2046	0.34	ug/L		97
73) 1,2,3-Trichloropropane	11.690	110	379	0.41	ug/L	#	74
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.			
75) 4-Chlorotoluene	11.781	91	2118	0.37	ug/L		95
76) tert-Butylbenzene	11.909	91	1103	0.34	ug/L		82
77) 1,2,4-Trimethylbenzene	11.970	105	1738	0.29	ug/L		99
78) sec-Butylbenzene	12.050	105	2369	0.35	ug/L		93
79) 4-Isopropyltoluene	12.147	119	1664	0.42	ug/L		82
80) 1,3-Dichlorobenzene	12.226	146	1456	0.36	ug/L		92
81) 1,4-Dichlorobenzene	12.287	146	1856	0.41	ug/L	#	69
82) n-Butylbenzene	12.470	91	1571	0.33	ug/L		96
83) 1,2-Dichlorobenzene	12.616	146	1407	0.36	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	13.263	157	156	0.25	ug/L	#	55
85) Hexachlorobutadiene	13.811	223	185	0.35	ug/L	#	72
86) 1,2,4-Trichlorobenzene	13.860	180	554	0.27	ug/L		96
87) Naphthalene	14.189	128	1138	1.07	ug/L		79
88) 1,2,3-Trichlorobenzene	14.378	180	532	0.26	ug/L		77

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:40:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 14:44:04 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	139239	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	384850	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	167927	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	138115	53.13	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	455553	54.51	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	534043	52.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.427	174	138403	48.76	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	2775	1.07	ug/L		93
3) Chloromethane	1.978	50	3403	1.31	ug/L		97
4) Vinyl Chloride	2.100	62	3373	1.19	ug/L		98
5) Bromomethane	2.533	96	2726	1.54	ug/L		90
6) Chloroethane	2.716	64	1901	1.59	ug/L		98
7) Trichlorofluoromethane	2.911	101	3593	1.00	ug/L		91
8) Ethanol	3.612	45	4341	68.35	ug/L		90
9) 1,1-Dichloroethene	3.563	61	3806	1.07	ug/L		89
10) Carbon Disulfide	3.569	76	4285	0.93	ug/L		99
11) Freon 113	3.636	101	2465	1.09	ug/L		88
12) Iodomethane	0.000		0	N.D.	d		
13) Acrolein	4.014	56	625	1.18	ug/L		96
14) Methylene Chloride	4.295	84	8586	3.40	ug/L		97
15) Acetone	4.386	43	3885	2.97	ug/L		100
16) t-1,2-Dichloroethene	4.490	61	3488	1.06	ug/L		95
17) n-Hexane	4.581	86	247	0.84	ug/L	#	32
18) Methyl-tert-butyl-ether	4.642	73	5292	0.96	ug/L		99
19) tert-Butanol (TBA)	4.801	59	21639	57.55	ug/L	#	51
20) Diisopropyl ether (DIPE)	5.093	45	1686	0.27	ug/L		87
21) 1,1-Dichloroethane	5.191	63	5006	1.15	ug/L		96
22) Acrylonitrile	5.276	53	1352	1.02	ug/L		75
23) Vinyl Acetate	5.520	43	2053	1.16	ug/L		85
24) Ethyl-tert-butyl ether...	5.484	59	1189	0.25	ug/L		97
25) c-1,2-Dichloroethene	5.801	61	3375	1.07	ug/L		97
26) 2,2-Dichloropropane	5.904	77	1967	1.06	ug/L	#	66
27) Bromochloromethane	6.014	49	2726	1.26	ug/L		92
28) Chloroform	6.111	83	4654	1.08	ug/L		95
29) Carbon Tetrachloride	6.233	117	1929	0.84	ug/L		98
30) Tetrahydrofuran	6.294	42	1160	0.97	ug/L		94
31) 1,1,1-Trichloroethane	6.313	97	3173	0.99	ug/L		85
33) 1,1-Dichloropropene	6.453	75	2829	0.96	ug/L		86
34) 2-Butanone (MEK)	6.465	43	3339	1.76	ug/L		95
35) Benzene	6.727	78	10086	1.05	ug/L		98
36) tert-Amyl methyl ether...	6.873	73	1431	0.31	ug/L	#	40
37) 1,2-Dichloroethane (EDC)	6.959	62	3642	1.03	ug/L		99
38) iso-Butyl Alcohol	7.020	43	4875	21.16	ug/L		93
40) Trichloroethene (TCE)	7.379	130	2892	0.98	ug/L		94
41) tert-Amyl ethyl ether ...	7.666	59	800	0.27	ug/L		87
42) Dibromomethane	7.855	93	1817	1.10	ug/L	#	79
43) 1,2-Dichloropropane	7.971	63	2853	1.11	ug/L		90
44) Bromodichloromethane	8.056	83	2789	1.01	ug/L		93
46) 2-Chloroethyl Vinyl Ether	8.721	63	712	0.47	ug/L	#	1
47) c-1,3-Dichloropropene	8.776	75	2416	0.83	ug/L		82
49) Toluene	9.019	91	11597	1.04	ug/L		98

4/30/2020 MJ

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 14:44:04 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	2420	0.84	ug/L		82
51) 4-Methyl-2-Pentanone (...	9.416	43	5821	1.51	ug/L		93
52) t-1,3-Dichloropropene	9.452	75	2195	1.06	ug/L		99
53) 1,1,2-Trichloroethane	9.605	97	2686	1.05	ug/L		97
54) Dibromochloromethane	9.769	129	1804	0.89	ug/L		90
55) 1,3-Dichloropropane	9.861	76	4282	1.08	ug/L		94
56) 1,2-Dibromoethane (EDB)	9.989	107	2229	0.86	ug/L		99
57) 2-Hexanone	10.196	43	3387	1.16	ug/L		92
58) Chlorobenzene	10.446	112	7377	0.98	ug/L		92
59) Ethylbenzene	10.470	91	11594	0.99	ug/L		97
60) 1,1,1,2-Tetrachloroethane	10.501	131	1901	0.87	ug/L	#	76
61) m,p-Xylenes (2)	10.592	91	14033	1.66	ug/L		94
62) o-Xylene	10.952	91	6116	0.77	ug/L		95
63) Styrene	10.995	104	4390	0.95	ug/L		97
64) Bromoform	11.019	173	1185	0.97	ug/L		88
65) Isopropylbenzene	11.202	105	7045	0.96	ug/L		99
68) Bromobenzene	11.513	156	2856	0.98	ug/L		83
69) n-Propylbenzene	11.525	91	9809	0.96	ug/L		91
70) 1,1,2,2-Tetrachloroethane	11.586	83	3424	1.19	ug/L		99
71) 2-Chlorotoluene	11.653	126	2065	0.91	ug/L		93
72) 1,3,5-Trimethylbenzene	11.671	105	5426	0.81	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	1181	1.16	ug/L		97
74) t-1,4-Dichloro-2-butene	11.720	88	228	1.87	ug/L	#	41
75) 4-Chlorotoluene	11.781	91	5937	0.93	ug/L		94
76) tert-Butylbenzene	11.915	91	3171	0.88	ug/L		95
77) 1,2,4-Trimethylbenzene	11.970	105	5139	0.78	ug/L		94
78) sec-Butylbenzene	12.049	105	6597	0.89	ug/L		94
79) 4-Isopropyltoluene	12.147	119	4567	0.84	ug/L		96
80) 1,3-Dichlorobenzene	12.220	146	4061	0.92	ug/L		94
81) 1,4-Dichlorobenzene	12.287	146	4946	1.00	ug/L		88
82) n-Butylbenzene	12.470	91	4814	0.92	ug/L		90
83) 1,2-Dichlorobenzene	12.616	146	3752	0.86	ug/L		94
84) 1,2-Dibromo-3-Chloropr...	13.269	157	408	0.60	ug/L	#	33
85) Hexachlorobutadiene	13.811	223	477	0.82	ug/L		98
86) 1,2,4-Trichlorobenzene	13.860	180	1599	0.70	ug/L		95
87) Naphthalene	14.183	128	3600	1.38	ug/L		97
88) 1,2,3-Trichlorobenzene	14.378	180	1517	0.67	ug/L		96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 14:27:23 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

04/29/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	139239	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	384850	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	167927	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	138115	53.13	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	455553	54.51	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	534043	52.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.427	174	138403	48.76	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	2775	1.07	ug/L		93
3) Chloromethane	1.978	50	3403	1.31	ug/L		97
4) Vinyl Chloride	2.100	62	3373	1.19	ug/L		98
5) Bromomethane	2.533	96	2726	1.54	ug/L		90
6) Chloroethane	2.716	64	1901	1.59	ug/L		98
7) Trichlorofluoromethane	2.911	101	3593	1.00	ug/L		91
8) Ethanol	3.612	45	4341	68.35	ug/L		90
9) 1,1-Dichloroethene	3.563	61	3806	1.07	ug/L		89
10) Carbon Disulfide	3.569	76	4285	0.93	ug/L		99
11) Freon 113	3.636	101	2465	1.09	ug/L		88
12) Iodomethane	3.728	142	95	4.21	ug/L	#	47
13) Acrolein	4.014	56	625	1.18	ug/L		96
14) Methylene Chloride	4.295	84	8586	3.40	ug/L		97
15) Acetone	4.386	43	3885	2.97	ug/L		100
16) t-1,2-Dichloroethene	4.490	61	3488	1.06	ug/L		95
17) n-Hexane	4.581	86	247	0.84	ug/L	#	32
18) Methyl-tert-butyl-ether	4.642	73	5292	0.96	ug/L		99
19) tert-Butanol (TBA)	4.801	59	21639	57.55	ug/L	#	51
20) Diisopropyl ether (DIPE)	5.093	45	1686	0.27	ug/L		87
21) 1,1-Dichloroethane	5.191	63	5006	1.15	ug/L		96
22) Acrylonitrile	5.276	53	1352	1.02	ug/L		75
23) Vinyl Acetate	5.520	43	2053	1.16	ug/L		85
24) Ethyl-tert-butyl ether...	5.484	59	1189	0.25	ug/L		97
25) c-1,2-Dichloroethene	5.801	61	3375	1.07	ug/L		97
26) 2,2-Dichloropropane	5.904	77	1967	1.06	ug/L	#	66
27) Bromochloromethane	6.014	49	2726	1.26	ug/L		92
28) Chloroform	6.111	83	4654	1.08	ug/L		95
29) Carbon Tetrachloride	6.233	117	1929	0.84	ug/L		98
30) Tetrahydrofuran	6.294	42	1160	0.97	ug/L		94
31) 1,1,1-Trichloroethane	6.313	97	3173	0.99	ug/L		85
33) 1,1-Dichloropropene	6.453	75	2829	0.96	ug/L		86
34) 2-Butanone (MEK)	6.465	43	3339	1.76	ug/L		95
35) Benzene	6.727	78	10086	1.05	ug/L		98
36) tert-Amyl methyl ether...	6.873	73	1431	0.31	ug/L	#	40
37) 1,2-Dichloroethane (EDC)	6.959	62	3642	1.03	ug/L		99
38) iso-Butyl Alcohol	7.020	43	4875	21.16	ug/L		93
40) Trichloroethene (TCE)	7.379	130	2892	0.98	ug/L		94
41) tert-Amyl ethyl ether ...	7.666	59	800	0.27	ug/L		87
42) Dibromomethane	7.855	93	1817	1.10	ug/L	#	79
43) 1,2-Dichloropropane	7.971	63	2853	1.11	ug/L		90
44) Bromodichloromethane	8.056	83	2789	1.01	ug/L		93
46) 2-Chloroethyl Vinyl Ether	8.721	63	712	0.47	ug/L	#	1
47) c-1,3-Dichloropropene	8.776	75	2416	0.83	ug/L		82
49) Toluene	9.019	91	11597	1.04	ug/L		98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 14:27:23 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

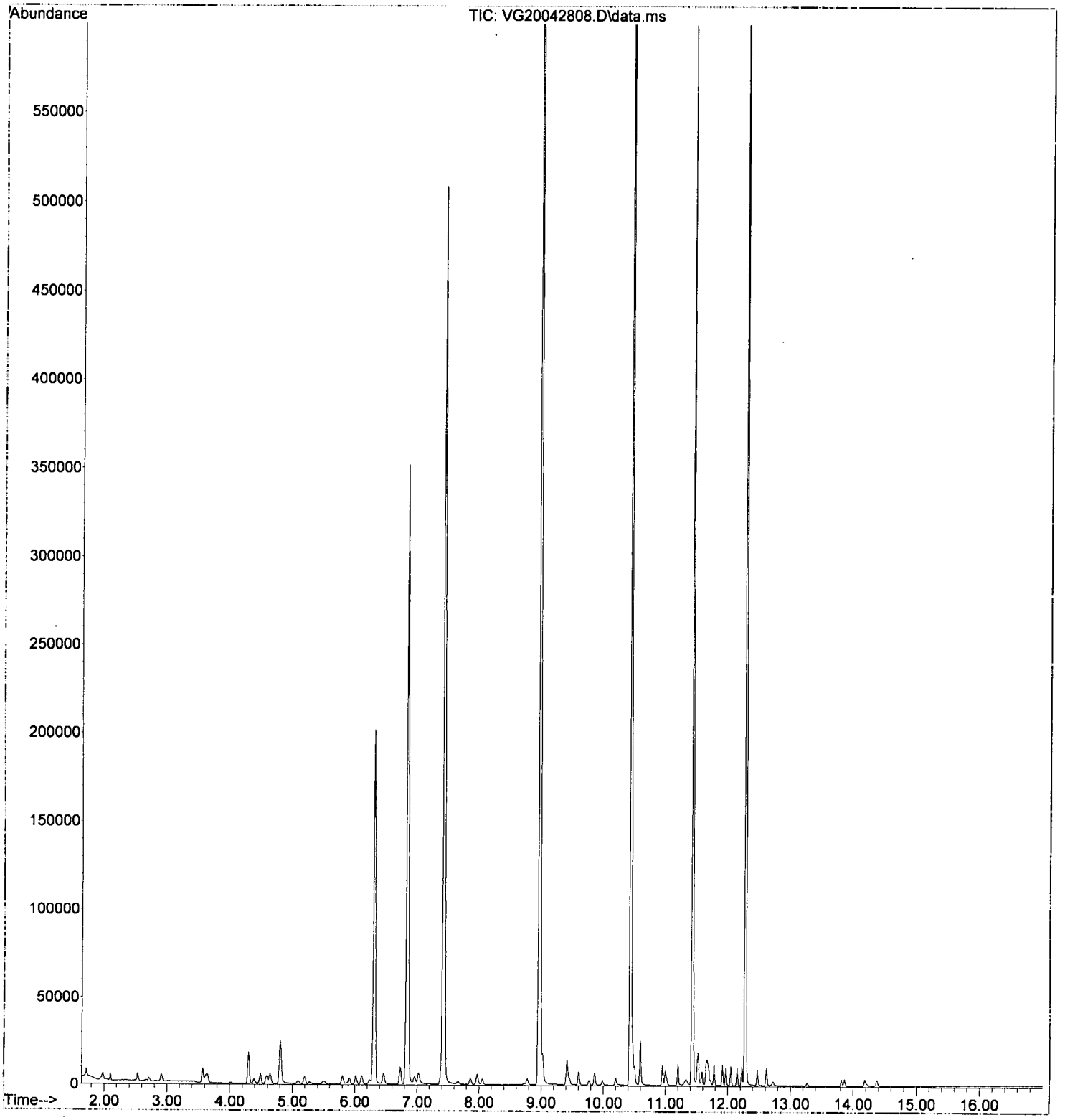
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	2420	0.84	ug/L		82
51) 4-Methyl-2-Pentanone (...	9.416	43	5821	1.51	ug/L		93
52) t-1,3-Dichloropropene	9.452	75	2195	1.06	ug/L		99
53) 1,1,2-Trichloroethane	9.605	97	2686	1.05	ug/L		97
54) Dibromochloromethane	9.769	129	1804	0.89	ug/L		90
55) 1,3-Dichloropropane	9.861	76	4282	1.08	ug/L		94
56) 1,2-Dibromoethane (EDB)	9.989	107	2229	0.86	ug/L		99
57) 2-Hexanone	10.196	43	3387	1.16	ug/L		92
58) Chlorobenzene	10.446	112	7377	0.98	ug/L		92
59) Ethylbenzene	10.470	91	11594	0.99	ug/L		97
60) 1,1,1,2-Tetrachloroethane	10.501	131	1901	0.87	ug/L	#	76
61) m,p-Xylenes (2)	10.592	91	14033	1.66	ug/L		94
62) o-Xylene	10.952	91	6116	0.77	ug/L		95
63) Styrene	10.995	104	4390	0.95	ug/L		97
64) Bromoform	11.019	173	1185	0.97	ug/L		88
65) Isopropylbenzene	11.202	105	7045	0.96	ug/L		99
68) Bromobenzene	11.513	156	2856	0.98	ug/L		83
69) n-Propylbenzene	11.525	91	9809	0.96	ug/L		91
70) 1,1,2,2-Tetrachloroethane	11.586	83	3424	1.19	ug/L		99
71) 2-Chlorotoluene	11.653	126	2065	0.91	ug/L		93
72) 1,3,5-Trimethylbenzene	11.671	105	5426	0.81	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	1181	1.16	ug/L		97
74) t-1,4-Dichloro-2-butene	11.720	88	228	1.87	ug/L	#	41
75) 4-Chlorotoluene	11.781	91	5937	0.93	ug/L		94
76) tert-Butylbenzene	11.915	91	3171	0.88	ug/L		95
77) 1,2,4-Trimethylbenzene	11.970	105	5139	0.78	ug/L		94
78) sec-Butylbenzene	12.049	105	6597	0.89	ug/L		94
79) 4-Isopropyltoluene	12.147	119	4567	0.84	ug/L		96
80) 1,3-Dichlorobenzene	12.220	146	4061	0.92	ug/L		94
81) 1,4-Dichlorobenzene	12.287	146	4946	1.00	ug/L		88
82) n-Butylbenzene	12.470	91	4814	0.92	ug/L		90
83) 1,2-Dichlorobenzene	12.616	146	3752	0.86	ug/L		94
84) 1,2-Dibromo-3-Chloropr...	13.269	157	408	0.50	ug/L	#	33
85) Hexachlorobutadiene	13.811	223	477	0.82	ug/L		98
86) 1,2,4-Trichlorobenzene	13.860	180	1599	0.70	ug/L		95
87) Naphthalene	14.183	128	3600	1.38	ug/L		97
88) 1,2,3-Trichlorobenzene	14.378	180	1517	0.67	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 14:44:04 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042809.D
Acq On : 28 Apr 2020 5:37 pm
Operator : PS
Sample : 0D28059-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 14:27:26 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	127296	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	349304	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	151641	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	125797	52.93	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	410702	53.76	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	486856	53.06	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	124756	48.67	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	5002	2.12	ug/L		99
3) Chloromethane	1.978	50	6051	2.54	ug/L		96
4) Vinyl Chloride	2.100	62	5945	2.30	ug/L		97
5) Bromomethane	2.533	96	4637	2.86	ug/L		89
6) Chloroethane	2.716	64	3098	3.03	ug/L		93
7) Trichlorofluoromethane	2.911	101	6259	1.91	ug/L		94
8) Ethanol	3.612	45	8126	139.94	ug/L		83
9) 1,1-Dichloroethene	3.569	61	6691	2.06	ug/L		93
10) Carbon Disulfide	3.569	76	7686	1.82	ug/L		99
11) Freon 113	3.636	101	4428	2.15	ug/L		87
12) Iodomethane	3.740	142	271	4.39	ug/L	#	47
13) Acrolein	4.014	56	1033	2.14	ug/L		92
14) Methylene Chloride	4.295	84	10556	4.57	ug/L		96
15) Acetone	4.380	43	6410	5.37	ug/L		96
16) t-1,2-Dichloroethene	4.484	61	6491	2.16	ug/L		87
17) n-Hexane	4.587	86	496	1.85	ug/L	#	43
18) Methyl-tert-butyl-ether	4.642	73	9858	1.96	ug/L		93
19) tert-Butanol (TBA)	4.801	59	42680	124.16	ug/L	#	51
20) Diisopropyl ether (DIPE)	5.093	45	2905	0.50	ug/L		88
21) 1,1-Dichloroethane	5.191	63	8898	2.24	ug/L		99
22) Acrylonitrile	5.270	53	2442	2.01	ug/L		98
23) Vinyl Acetate	5.514	43	4151	1.83	ug/L		87
24) Ethyl-tert-butyl ether...	5.496	59	2194	0.50	ug/L		94
25) c-1,2-Dichloroethene	5.801	61	6218	2.17	ug/L		90
26) 2,2-Dichloropropane	5.910	77	3460	2.04	ug/L	#	64
27) Bromochloromethane	6.014	49	4897	2.47	ug/L		82
28) Chloroform	6.112	83	8523	2.16	ug/L		96
29) Carbon Tetrachloride	6.233	117	3781	1.80	ug/L		99
30) Tetrahydrofuran	6.294	42	2041	1.86	ug/L		89
31) 1,1,1-Trichloroethane	6.313	97	5630	1.92	ug/L		91
33) 1,1-Dichloropropene	6.459	75	4996	1.85	ug/L		97
34) 2-Butanone (MEK)	6.459	43	6424	3.71	ug/L		99
35) Benzene	6.727	78	18474	2.10	ug/L		98
36) tert-Amyl methyl ether...	6.874	73	2276	0.54	ug/L	#	52
37) 1,2-Dichloroethane (EDC)	6.959	62	6699	2.08	ug/L		95
38) iso-Butyl Alcohol	7.020	43	9183	43.60	ug/L		93
40) Trichloroethene (TCE)	7.380	130	5135	1.91	ug/L		95
41) tert-Amyl ethyl ether ...	7.666	59	1547	0.57	ug/L		92
42) Dibromomethane	7.855	93	3205	2.11	ug/L		87
43) 1,2-Dichloropropane	7.971	63	5295	2.26	ug/L		98
44) Bromodichloromethane	8.050	83	4745	1.87	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.721	63	1396	1.02	ug/L	#	1
47) c-1,3-Dichloropropene	8.776	75	4719	1.79	ug/L		98
49) Toluene	9.019	91	20457	2.02	ug/L		95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042809.D
Acq On : 28 Apr 2020 5:37 pm
Operator : PS
Sample : 0D28059-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 14:27:26 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	4099	1.56	ug/L		86
51) 4-Methyl-2-Pentanone (...	9.416	43	11635	3.31	ug/L		97
52) t-1,3-Dichloropropene	9.452	75	3895	1.75	ug/L		96
53) 1,1,2-Trichloroethane	9.605	97	4815	2.07	ug/L		95
54) Dibromochloromethane	9.769	129	3292	1.62	ug/L		96
55) 1,3-Dichloropropane	9.861	76	7446	2.07	ug/L		96
56) 1,2-Dibromoethane (EDB)	9.983	107	4307	1.84	ug/L		90
57) 2-Hexanone	10.190	43	7344	2.77	ug/L		91
58) Chlorobenzene	10.446	112	13084	1.92	ug/L		90
59) Ethylbenzene	10.470	91	20551	1.94	ug/L		96
60) 1,1,1,2-Tetrachloroethane	10.501	131	3453	1.74	ug/L		90
61) m,p-Xylenes (2)	10.592	91	25600	3.28	ug/L		96
62) o-Xylene	10.946	91	11482	1.52	ug/L		96
63) Styrene	10.995	104	8265	1.60	ug/L		96
64) Bromoform	11.019	173	2032	1.52	ug/L		89
65) Isopropylbenzene	11.202	105	12996	1.66	ug/L		96
68) Bromobenzene	11.513	156	4698	1.79	ug/L	#	78
69) n-Propylbenzene	11.525	91	17637	1.91	ug/L		94
70) 1,1,2,2-Tetrachloroethane	11.580	83	5938	2.29	ug/L		90
71) 2-Chlorotoluene	11.653	126	3818	1.87	ug/L		98
72) 1,3,5-Trimethylbenzene	11.671	105	10389	1.73	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	1959	2.14	ug/L	#	71
74) t-1,4-Dichloro-2-butene	11.720	88	427	2.58	ug/L	#	70
75) 4-Chlorotoluene	11.775	91	11046	1.92	ug/L		93
76) tert-Butylbenzene	11.915	91	5969	1.84	ug/L		90
77) 1,2,4-Trimethylbenzene	11.964	105	9775	1.64	ug/L		95
78) sec-Butylbenzene	12.043	105	12245	1.83	ug/L		92
79) 4-Isopropyltoluene	12.147	119	8900	1.65	ug/L		95
80) 1,3-Dichlorobenzene	12.220	146	7077	1.78	ug/L		96
81) 1,4-Dichlorobenzene	12.287	146	8207	1.84	ug/L		89
82) n-Butylbenzene	12.470	91	8803	1.85	ug/L		90
83) 1,2-Dichlorobenzene	12.616	146	7179	1.83	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	13.263	157	855	1.40	ug/L	#	62
85) Hexachlorobutadiene	13.811	223	894	1.71	ug/L		93
86) 1,2,4-Trichlorobenzene	13.860	180	2821	1.36	ug/L		93
87) Naphthalene	14.177	128	6717	1.88	ug/L		95
88) 1,2,3-Trichlorobenzene	14.372	180	2840	1.38	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042809.D
Acq On : 28 Apr 2020 5:37 pm
Operator : PS
Sample : 0D28059-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 14:27:26 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	127296	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	349304	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	151641	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	125797	52.98	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	410702	53.76	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	486856	53.06	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	124756	48.67	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	5002	2.12	ug/L		99
3) Chloromethane	1.978	50	6051	2.54	ug/L		96
4) Vinyl Chloride	2.100	62	5945	2.30	ug/L		97
5) Bromomethane	2.533	96	4637	2.86	ug/L		89
6) Chloroethane	2.716	64	3098	3.03	ug/L		93
7) Trichlorofluoromethane	2.911	101	6259	1.91	ug/L		94
8) Ethanol	3.612	45	8126	139.94	ug/L		83
9) 1,1-Dichloroethene	3.569	61	6691	2.06	ug/L		93
10) Carbon Disulfide	3.569	76	7686	1.82	ug/L		99
11) Freon 113	3.636	101	4428	2.15	ug/L		87
12) Iodomethane	3.740	142	271	4.39	ug/L	#	47
13) Acrolein	4.014	56	1033	2.14	ug/L		92
14) Methylene Chloride	4.295	84	10556	4.57	ug/L		96
15) Acetone	4.380	43	6410	5.37	ug/L		96
16) t-1,2-Dichloroethene	4.484	61	6491	2.16	ug/L		87
17) n-Hexane	4.587	86	496	1.85	ug/L	#	43
18) Methyl-tert-butyl-ether	4.642	73	9858	1.96	ug/L		93
19) tert-Butanol (TBA)	4.801	59	42680	124.16	ug/L	#	51
20) Diisopropyl ether (DIPE)	5.093	45	2905	0.50	ug/L		88
21) 1,1-Dichloroethane	5.191	63	8898	2.24	ug/L		99
22) Acrylonitrile	5.270	53	2442	2.01	ug/L		98
23) Vinyl Acetate	5.514	43	4151	1.83	ug/L		87
24) Ethyl-tert-butyl ether...	5.496	59	2194	0.50	ug/L		94
25) c-1,2-Dichloroethene	5.801	61	6218	2.17	ug/L		90
26) 2,2-Dichloropropane	5.910	77	3460	2.04	ug/L	#	64
27) Bromochloromethane	6.014	49	4897	2.47	ug/L		82
28) Chloroform	6.112	83	8523	2.16	ug/L		96
29) Carbon Tetrachloride	6.233	117	3781	1.80	ug/L		99
30) Tetrahydrofuran	6.294	42	2041	1.86	ug/L		89
31) 1,1,1-Trichloroethane	6.313	97	5630	1.92	ug/L		91
33) 1,1-Dichloropropene	6.459	75	4996	1.85	ug/L		97
34) 2-Butanone (MEK)	6.459	43	6424	3.71	ug/L		99
35) Benzene	6.727	78	18474	2.10	ug/L		98
36) tert-Amyl methyl ether...	6.874	73	2276	0.54	ug/L	#	52
37) 1,2-Dichloroethane (EDC)	6.959	62	6699	2.08	ug/L		95
38) iso-Butyl Alcohol	7.020	43	9183	43.60	ug/L		93
40) Trichloroethene (TCE)	7.380	130	5135	1.91	ug/L		95
41) tert-Amyl ethyl ether ...	7.666	59	1547	0.57	ug/L		92
42) Dibromomethane	7.855	93	3205	2.11	ug/L		87
43) 1,2-Dichloropropane	7.971	63	5295	2.26	ug/L		98
44) Bromodichloromethane	8.050	83	4745	1.87	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.721	63	1396	1.02	ug/L	#	1
47) c-1,3-Dichloropropene	8.776	75	4719	1.79	ug/L		98
49) Toluene	9.019	91	20457	2.02	ug/L		95

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042809.D
Acq On : 28 Apr 2020 5:37 pm
Operator : PS
Sample : 0D28059-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 14:27:26 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

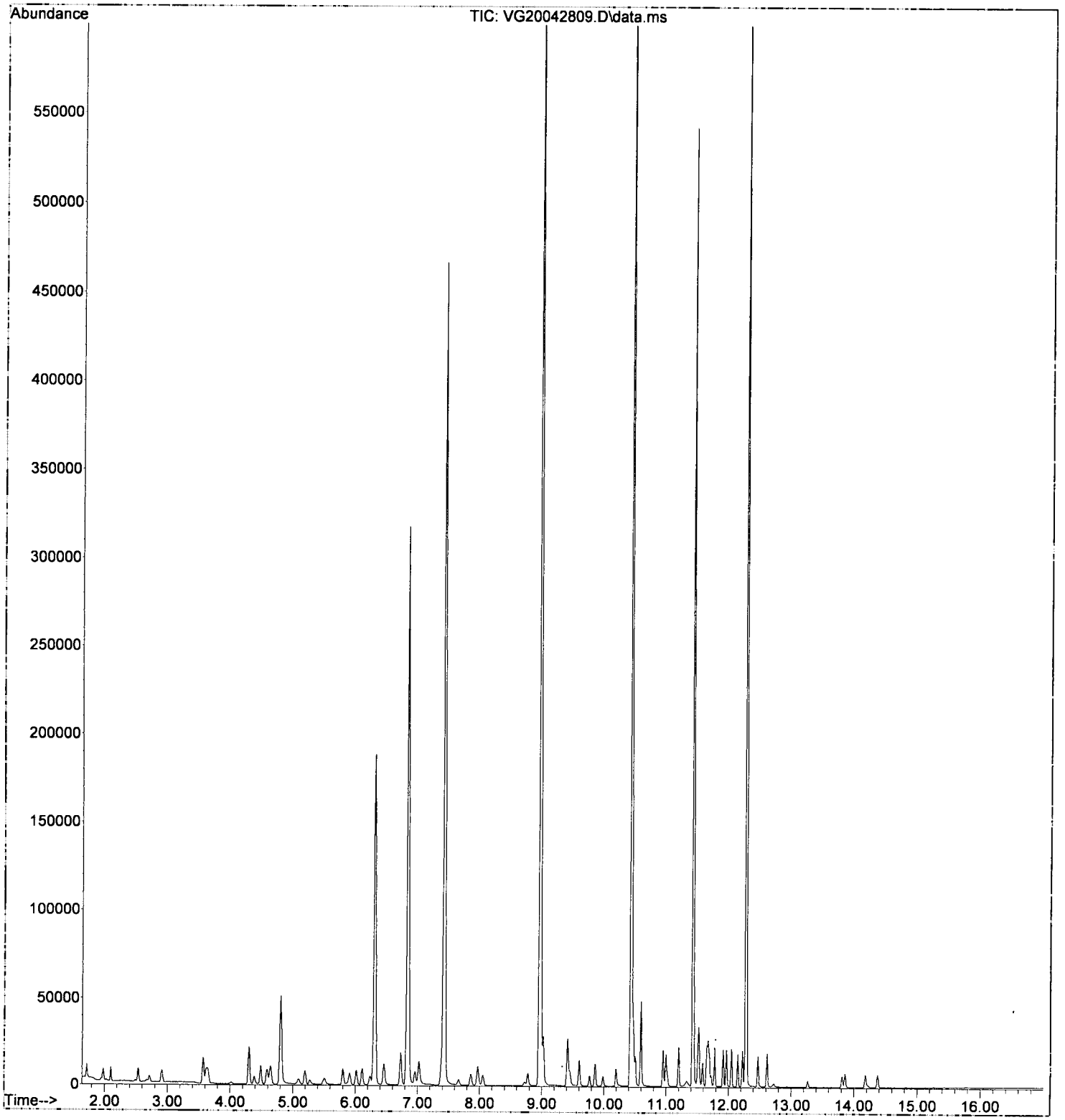
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	4099	1.56	ug/L		86
51) 4-Methyl-2-Pentanone (...	9.416	43	11635	3.31	ug/L		97
52) t-1,3-Dichloropropene	9.452	75	3895	1.75	ug/L		96
53) 1,1,2-Trichloroethane	9.605	97	4815	2.07	ug/L		95
54) Dibromochloromethane	9.769	129	3292	1.62	ug/L		96
55) 1,3-Dichloropropane	9.861	76	7446	2.07	ug/L		96
56) 1,2-Dibromoethane (EDB)	9.983	107	4307	1.84	ug/L		90
57) 2-Hexanone	10.190	43	7344	2.77	ug/L		91
58) Chlorobenzene	10.446	112	13084	1.92	ug/L		90
59) Ethylbenzene	10.470	91	20551	1.94	ug/L		96
60) 1,1,1,2-Tetrachloroethane	10.501	131	3453	1.74	ug/L		90
61) m,p-Xylenes (2)	10.592	91	25600	3.28	ug/L		96
62) o-Xylene	10.946	91	11482	1.52	ug/L		96
63) Styrene	10.995	104	8265	1.60	ug/L		96
64) Bromoform	11.019	173	2032	1.52	ug/L		89
65) Isopropylbenzene	11.202	105	12996	1.66	ug/L		96
68) Bromobenzene	11.513	156	4698	1.79	ug/L	#	78
69) n-Propylbenzene	11.525	91	17637	1.91	ug/L		94
70) 1,1,2,2-Tetrachloroethane	11.580	83	5938	2.29	ug/L		90
71) 2-Chlorotoluene	11.653	126	3818	1.87	ug/L		98
72) 1,3,5-Trimethylbenzene	11.671	105	10389	1.73	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	1959	2.14	ug/L	#	71
74) t-1,4-Dichloro-2-butene	11.720	88	427	2.58	ug/L	#	70
75) 4-Chlorotoluene	11.775	91	11046	1.92	ug/L		93
76) tert-Butylbenzene	11.915	91	5969	1.84	ug/L		90
77) 1,2,4-Trimethylbenzene	11.964	105	9775	1.64	ug/L		95
78) sec-Butylbenzene	12.043	105	12245	1.83	ug/L		92
79) 4-Isopropyltoluene	12.147	119	8900	1.65	ug/L		95
80) 1,3-Dichlorobenzene	12.220	146	7077	1.78	ug/L		96
81) 1,4-Dichlorobenzene	12.287	146	8207	1.84	ug/L		89
82) n-Butylbenzene	12.470	91	8803	1.85	ug/L		90
83) 1,2-Dichlorobenzene	12.616	146	7179	1.83	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	13.263	157	855	1.40	ug/L	#	62
85) Hexachlorobutadiene	13.811	223	894	1.71	ug/L		93
86) 1,2,4-Trichlorobenzene	13.860	180	2821	1.36	ug/L		93
87) Naphthalene	14.177	128	6717	1.88	ug/L		95
88) 1,2,3-Trichlorobenzene	14.372	180	2840	1.38	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042809.D
Acq On : 28 Apr 2020 5:37 pm
Operator : PS
Sample : 0D28059-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 14:27:26 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 14:27:29 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	142812	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	395555	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	179946	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	141206	52.96	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	454891	53.07	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	541718	52.14	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	144745	47.59	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	13847	5.22	ug/L		99
3) Chloromethane	1.978	50	16598	6.21	ug/L		98
4) Vinyl Chloride	2.100	62	16642	5.75	ug/L		95
5) Bromomethane	2.533	96	12504	6.88	ug/L		99
6) Chloroethane	2.710	64	8320	7.62	ug/L		96
7) Trichlorofluoromethane	2.905	101	17523	4.78	ug/L		98
8) Ethanol	3.612	45	21364	327.95	ug/L		86
9) 1,1-Dichloroethene	3.563	61	18814	5.17	ug/L		94
10) Carbon Disulfide	3.563	76	22924	4.84	ug/L		98
11) Freon 113	3.636	101	12599	5.45	ug/L		89
12) Iodomethane	3.728	142	1498	5.40	ug/L		84
13) Acrolein	4.014	56	3041	5.61	ug/L		94
14) Methylene Chloride	4.295	84	19953	7.70	ug/L		98
15) Acetone	4.380	43	14762	11.02	ug/L		96
16) t-1,2-Dichloroethene	4.484	61	18330	5.43	ug/L		97
17) n-Hexane	4.588	86	1711	5.70	ug/L	#	43
18) Methyl-tert-butyl-ether	4.642	73	30062	5.33	ug/L		98
19) tert-Butanol (TBA)	4.801	59	124783	323.57	ug/L	#	56
20) Diisopropyl ether (DIPE)	5.087	45	8551	1.32	ug/L		96
21) 1,1-Dichloroethane	5.191	63	24878	5.58	ug/L		99
22) Acrylonitrile	5.264	53	7632	5.59	ug/L		96
23) Vinyl Acetate	5.508	43	14594	4.43	ug/L		94
24) Ethyl-tert-butyl ether...	5.490	59	6468	1.30	ug/L		87
25) c-1,2-Dichloroethene	5.795	61	18232	5.66	ug/L		98
26) 2,2-Dichloropropane	5.904	77	10290	5.42	ug/L	#	62
27) Bromochloromethane	6.014	49	13719	6.16	ug/L		90
28) Chloroform	6.106	83	24289	5.49	ug/L		97
29) Carbon Tetrachloride	6.234	117	11732	4.98	ug/L		92
30) Tetrahydrofuran	6.282	42	6128	4.99	ug/L		93
31) 1,1,1-Trichloroethane	6.313	97	17241	5.25	ug/L		92
33) 1,1-Dichloropropene	6.453	75	16001	5.29	ug/L		97
34) 2-Butanone (MEK)	6.453	43	19945	10.25	ug/L		98
35) Benzene	6.727	78	55897	5.66	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	6406	1.34	ug/L	#	58
37) 1,2-Dichloroethane (EDC)	6.959	62	19078	5.27	ug/L		99
38) iso-Butyl Alcohol	7.014	43	27429	116.07	ug/L		87
40) Trichloroethene (TCE)	7.380	130	15099	5.01	ug/L		95
41) tert-Amyl ethyl ether ...	7.654	59	4150	1.36	ug/L		89
42) Dibromomethane	7.855	93	9153	5.38	ug/L		88
43) 1,2-Dichloropropane	7.965	63	14723	5.61	ug/L		94
44) Bromodichloromethane	8.050	83	14828	5.21	ug/L		98
46) 2-Chloroethyl Vinyl Ether	8.715	63	4421	2.85	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	14490	4.86	ug/L		96
49) Toluene	9.020	91	60036	5.24	ug/L		99

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 14:27:29 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	13173	4.43 ug/L	94
51) 4-Methyl-2-Pentanone (...	9.416	43	35418	8.91 ug/L	98
52) t-1,3-Dichloropropene	9.446	75	13049	4.51 ug/L	97
53) 1,1,2-Trichloroethane	9.599	97	14251	5.41 ug/L	92
54) Dibromochloromethane	9.763	129	10229	4.12 ug/L	99
55) 1,3-Dichloropropane	9.855	76	22206	5.46 ug/L	96
56) 1,2-Dibromoethane (EDB)	9.983	107	12948	4.87 ug/L	95
57) 2-Hexanone	10.190	43	22555	7.50 ug/L	93
58) Chlorobenzene	10.446	112	38442	4.98 ug/L	98
59) Ethylbenzene	10.471	91	60457	5.04 ug/L	100
60) 1,1,1,2-Tetrachloroethane	10.501	131	10701	4.77 ug/L	93
61) m,p-Xylenes (2)	10.592	91	82936	9.24 ug/L	98
62) o-Xylene	10.946	91	37475	4.25 ug/L	94
63) Styrene	10.995	104	29377	4.31 ug/L	100
64) Bromoform	11.019	173	6855	3.86 ug/L	96
65) Isopropylbenzene	11.196	105	43279	4.34 ug/L	96
68) Bromobenzene	11.507	156	14510	4.65 ug/L #	82
69) n-Propylbenzene	11.525	91	55551	5.06 ug/L	96
70) 1,1,2,2-Tetrachloroethane	11.586	83	17506	5.68 ug/L	98
71) 2-Chlorotoluene	11.647	126	11788	4.85 ug/L #	85
72) 1,3,5-Trimethylbenzene	11.672	105	35877	5.02 ug/L	95
73) 1,2,3-Trichloropropane	11.690	110	5738	5.27 ug/L #	69
74) t-1,4-Dichloro-2-butene	11.720	88	1351	4.88 ug/L #	70
75) 4-Chlorotoluene	11.775	91	34971	5.13 ug/L	95
76) tert-Butylbenzene	11.915	91	18795	4.87 ug/L	96
77) 1,2,4-Trimethylbenzene	11.964	105	35221	4.98 ug/L	97
78) sec-Butylbenzene	12.043	105	41621	5.23 ug/L	93
79) 4-Isopropyltoluene	12.147	119	30863	4.54 ug/L	98
80) 1,3-Dichlorobenzene	12.220	146	23270	4.92 ug/L	97
81) 1,4-Dichlorobenzene	12.287	146	25459	4.81 ug/L	94
82) n-Butylbenzene	12.470	91	29620	5.26 ug/L	94
83) 1,2-Dichlorobenzene	12.616	146	22390	4.81 ug/L	98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	2995	4.13 ug/L	81
85) Hexachlorobutadiene	13.811	223	2853	4.59 ug/L	97
86) 1,2,4-Trichlorobenzene	13.854	180	9612	3.92 ug/L	98
87) Naphthalene	14.177	128	23409	3.76 ug/L	99
88) 1,2,3-Trichlorobenzene	14.372	180	9690	3.97 ug/L	94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 14:27:29 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/20 mf

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	142812	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	395555	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	179946	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	141206	52.96	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	454891	53.07	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	541718	52.14	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	144745	47.59	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	13847	5.22	ug/L		99
3) Chloromethane	1.978	50	16598	6.21	ug/L		98
4) Vinyl Chloride	2.100	62	16642	5.75	ug/L		95
5) Bromomethane	2.533	96	12504	6.88	ug/L		99
6) Chloroethane	2.710	64	8320	7.62	ug/L		96
7) Trichlorofluoromethane	2.905	101	17523	4.78	ug/L		98
8) Ethanol	3.612	45	21364	327.95	ug/L		86
9) 1,1-Dichloroethene	3.563	61	18814	5.17	ug/L		94
10) Carbon Disulfide	3.563	76	22924	4.84	ug/L		98
11) Freon 113	3.636	101	12599	5.45	ug/L		89
12) Iodomethane	3.728	142	1498	5.40	ug/L		84
13) Acrolein	4.014	56	3041	5.61	ug/L		94
14) Methylene Chloride	4.295	84	19953	7.70	ug/L		98
15) Acetone	4.380	43	14762	11.02	ug/L		96
16) t-1,2-Dichloroethene	4.484	61	18330	5.43	ug/L		97
17) n-Hexane	4.588	86	1711	5.70	ug/L	#	43
18) Methyl-tert-butyl-ether	4.642	73	30062	5.33	ug/L		98
19) tert-Butanol (TBA)	4.801	59	124783	323.57	ug/L	#	56
20) Diisopropyl ether (DIPE)	5.087	45	8551	1.32	ug/L		96
21) 1,1-Dichloroethane	5.191	63	24878	5.58	ug/L		99
22) Acrylonitrile	5.264	53	7632	5.59	ug/L		96
23) Vinyl Acetate	5.508	43	14594	4.43	ug/L		94
24) Ethyl-tert-butyl ether...	5.490	59	6468	1.30	ug/L		87
25) c-1,2-Dichloroethene	5.795	61	18232	5.66	ug/L		98
26) 2,2-Dichloropropane	5.904	77	10290	5.42	ug/L	#	62
27) Bromochloromethane	6.014	49	13719	6.16	ug/L		90
28) Chloroform	6.106	83	24289	5.49	ug/L		97
29) Carbon Tetrachloride	6.234	117	11732	4.98	ug/L		92
30) Tetrahydrofuran	6.282	42	6128	4.99	ug/L		93
31) 1,1,1-Trichloroethane	6.313	97	17241	5.25	ug/L		92
33) 1,1-Dichloropropene	6.453	75	16001	5.29	ug/L		97
34) 2-Butanone (MEK)	6.453	43	19945	10.25	ug/L		98
35) Benzene	6.727	78	55897	5.66	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	6406	1.34	ug/L	#	58
37) 1,2-Dichloroethane (EDC)	6.959	62	19078	5.27	ug/L		99
38) iso-Butyl Alcohol	7.014	43	27429	116.07	ug/L		87
40) Trichloroethene (TCE)	7.380	130	15099	5.01	ug/L		95
41) tert-Amyl ethyl ether ...	7.654	59	4150	1.36	ug/L		89
42) Dibromomethane	7.855	93	9153	5.38	ug/L		88
43) 1,2-Dichloropropane	7.965	63	14723	5.61	ug/L		94
44) Bromodichloromethane	8.050	83	14828	5.21	ug/L		98
46) 2-Chloroethyl Vinyl Ether	8.715	63	4421	2.85	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	14490	4.86	ug/L		96
49) Toluene	9.020	91	60036	5.24	ug/L		99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 14:27:29 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

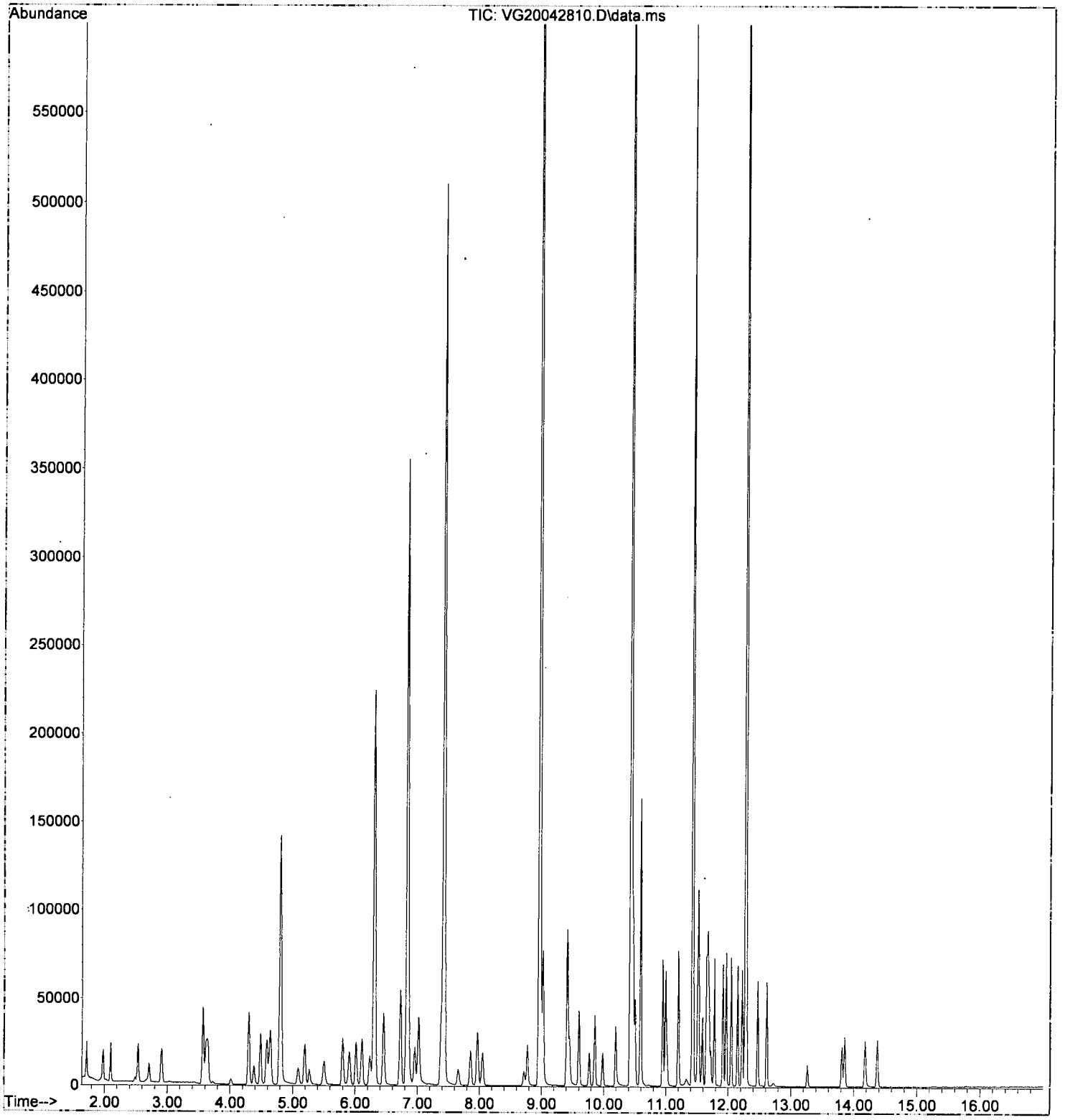
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	13173	4.43	ug/L		94
51) 4-Methyl-2-Pentanone (...	9.416	43	35418	8.91	ug/L		98
52) t-1,3-Dichloropropene	9.446	75	13049	4.51	ug/L		97
53) 1,1,2-Trichloroethane	9.599	97	14251	5.41	ug/L		92
54) Dibromochloromethane	9.763	129	10229	4.12	ug/L		99
55) 1,3-Dichloropropane	9.855	76	22206	5.46	ug/L		96
56) 1,2-Dibromoethane (EDB)	9.983	107	12948	4.87	ug/L		95
57) 2-Hexanone	10.190	43	22555	7.50	ug/L		93
58) Chlorobenzene	10.446	112	38442	4.98	ug/L		98
59) Ethylbenzene	10.471	91	60457	5.04	ug/L		100
60) 1,1,1,2-Tetrachloroethane	10.501	131	10701	4.77	ug/L		93
61) m,p-Xylenes (2)	10.592	91	82936	9.24	ug/L		98
62) o-Xylene	10.946	91	37475	4.25	ug/L		94
63) Styrene	10.995	104	29377	4.31	ug/L		100
64) Bromoform	11.019	173	6855	3.86	ug/L		96
65) Isopropylbenzene	11.196	105	43279	4.34	ug/L		96
68) Bromobenzene	11.507	156	14510	4.65	ug/L	#	82
69) n-Propylbenzene	11.525	91	55551	5.06	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.586	83	17506	5.68	ug/L		98
71) 2-Chlorotoluene	11.647	126	11788	4.85	ug/L	#	85
72) 1,3,5-Trimethylbenzene	11.672	105	35877	5.02	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	5738	5.27	ug/L	#	69
74) t-1,4-Dichloro-2-butene	11.720	88	1351	4.88	ug/L	#	70
75) 4-Chlorotoluene	11.775	91	34971	5.13	ug/L		95
76) tert-Butylbenzene	11.915	91	18795	4.87	ug/L		96
77) 1,2,4-Trimethylbenzene	11.964	105	35221	4.98	ug/L		97
78) sec-Butylbenzene	12.043	105	41621	5.23	ug/L		93
79) 4-Isopropyltoluene	12.147	119	30863	4.54	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	23270	4.92	ug/L		97
81) 1,4-Dichlorobenzene	12.287	146	25459	4.81	ug/L		94
82) n-Butylbenzene	12.470	91	29620	5.26	ug/L		94
83) 1,2-Dichlorobenzene	12.616	146	22390	4.81	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	2995	4.13	ug/L		81
85) Hexachlorobutadiene	13.811	223	2853	4.59	ug/L		97
86) 1,2,4-Trichlorobenzene	13.854	180	9612	3.92	ug/L		98
87) Naphthalene	14.177	128	23409	3.76	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	9690	3.97	ug/L		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 14:27:29 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042811.D
Acq On : 28 Apr 2020 6:31 pm
Operator : PS
Sample : 0D28059-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 14:27:32 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	139423	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	383963	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	178553	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	136574	52.47	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	439924	52.57	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	522720	51.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	142580	47.24	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	26239	10.13	ug/L		98
3) Chloromethane	1.978	50	31411	12.03	ug/L		98
4) Vinyl Chloride	2.100	62	32203	11.39	ug/L		94
5) Bromomethane	2.533	96	22785	12.84	ug/L		97
6) Chloroethane	2.710	64	11336	10.77	ug/L		88
7) Trichlorofluoromethane	2.905	101	32312	9.02	ug/L		98
8) Ethanol	3.612	45	44890	705.83	ug/L		83
9) 1,1-Dichloroethene	3.563	61	37076	10.44	ug/L		93
10) Carbon Disulfide	3.563	76	45558	9.84	ug/L		99
11) Freon 113	3.636	101	23367	10.36	ug/L		94
12) Iodomethane	3.728	142	4602	8.10	ug/L		93
13) Acrolein	4.008	56	6310	11.93	ug/L		98
14) Methylene Chloride	4.295	84	33896	13.39	ug/L		93
15) Acetone	4.380	43	28163	21.54	ug/L		95
16) t-1,2-Dichloroethene	4.484	61	36259	11.01	ug/L		96
17) n-Hexane	4.581	86	3233	11.03	ug/L	#	28
18) Methyl-tert-butyl-ether	4.636	73	62513	11.36	ug/L		100
19) tert-Butanol (TBA)	4.801	59	272405	723.53	ug/L	#	64
20) Diisopropyl ether (DIPE)	5.087	45	17898	2.84	ug/L		94
21) 1,1-Dichloroethane	5.191	63	49091	11.27	ug/L		99
22) Acrylonitrile	5.264	53	16003	12.00	ug/L		95
23) Vinyl Acetate	5.508	43	33186	9.43	ug/L		94
24) Ethyl-tert-butyl ether...	5.496	59	13478	2.78	ug/L		92
25) c-1,2-Dichloroethene	5.795	61	36783	11.69	ug/L		92
26) 2,2-Dichloropropane	5.910	77	19999	10.79	ug/L	#	55
27) Bromochloromethane	6.014	49	26657	12.27	ug/L		86
28) Chloroform	6.105	83	47467	10.99	ug/L		97
29) Carbon Tetrachloride	6.233	117	24278	10.56	ug/L		94
30) Tetrahydrofuran	6.282	42	13399	11.17	ug/L		94
31) 1,1,1-Trichloroethane	6.313	97	33372	10.41	ug/L		91
33) 1,1-Dichloropropene	6.453	75	32463	10.99	ug/L		95
34) 2-Butanone (MEK)	6.453	43	41809	22.02	ug/L		97
35) Benzene	6.727	78	111329	11.54	ug/L		99
36) tert-Amyl methyl ether...	6.874	73	12901	2.77	ug/L		72
37) 1,2-Dichloroethane (EDC)	6.959	62	37364	10.58	ug/L		98
38) iso-Butyl Alcohol	7.020	43	59903	259.65	ug/L		90
40) Trichloroethene (TCE)	7.380	130	28530	9.70	ug/L		97
41) tert-Amyl ethyl ether ...	7.660	59	8864	2.97	ug/L		86
42) Dibromomethane	7.855	93	18454	11.11	ug/L		90
43) 1,2-Dichloropropane	7.965	63	29839	11.64	ug/L		91
44) Bromodichloromethane	8.050	83	29724	10.70	ug/L		96
46) 2-Chloroethyl Vinyl Ether	8.715	63	9597	6.38	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	31828	11.00	ug/L		97
49) Toluene	9.019	91	116159	10.44	ug/L		100

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042811.D
Acq On : 28 Apr 2020 6:31 pm
Operator : PS
Sample : 0D28059-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 14:27:32 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	24546	8.51	ug/L		93
51) 4-Methyl-2-Pentanone (...	9.416	43	78447	20.33	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	28464	9.65	ug/L		99
53) 1,1,2-Trichloroethane	9.599	97	27495	10.74	ug/L		93
54) Dibromochloromethane	9.769	129	21974	8.86	ug/L		99
55) 1,3-Dichloropropane	9.855	76	44749	11.33	ug/L		94
56) 1,2-Dibromoethane (EDB)	9.983	107	25910	10.04	ug/L		97
57) 2-Hexanone	10.190	43	54460	18.66	ug/L		94
58) Chlorobenzene	10.446	112	73524	9.82	ug/L		96
59) Ethylbenzene	10.470	91	120072	10.31	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	21231	9.75	ug/L		94
61) m,p-Xylenes (2)	10.592	91	172596	19.69	ug/L		97
62) o-Xylene	10.946	91	80619	9.29	ug/L		94
63) Styrene	10.995	104	65789	9.47	ug/L		98
64) Bromoform	11.019	173	14508	7.95	ug/L		98
65) Isopropylbenzene	11.196	105	93386	9.26	ug/L		96
68) Bromobenzene	11.513	156	28215	9.11	ug/L		87
69) n-Propylbenzene	11.525	91	115790	10.63	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.586	83	35152	11.49	ug/L		96
71) 2-Chlorotoluene	11.647	126	24180	10.04	ug/L		93
72) 1,3,5-Trimethylbenzene	11.671	105	77814	10.98	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	11646	10.78	ug/L	#	76
74) t-1,4-Dichloro-2-butene	11.720	88	3230	10.01	ug/L	#	70
75) 4-Chlorotoluene	11.775	91	74114	10.95	ug/L		95
76) tert-Butylbenzene	11.915	91	39548	10.33	ug/L		92
77) 1,2,4-Trimethylbenzene	11.964	105	77201	11.01	ug/L		95
78) sec-Butylbenzene	12.043	105	88075	11.15	ug/L		94
79) 4-Isopropyltoluene	12.147	119	66417	9.64	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	47228	10.06	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	50096	9.55	ug/L		97
82) n-Butylbenzene	12.470	91	63004	11.27	ug/L		94
83) 1,2-Dichlorobenzene	12.616	146	45442	9.84	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	6172	8.57	ug/L		72
85) Hexachlorobutadiene	13.811	223	5547	9.00	ug/L		94
86) 1,2,4-Trichlorobenzene	13.854	180	21662	8.89	ug/L		95
87) Naphthalene	14.177	128	61073	8.39	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	22187	9.17	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042811.D
Acq On : 28 Apr 2020 6:31 pm
Operator : PS
Sample : 0D28059-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 14:27:32 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/20 mf

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	139423	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	383963	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	178553	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	136574	52.47	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	439924	52.57	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	522720	51.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	142580	47.24	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	26239	10.13	ug/L		98
3) Chloromethane	1.978	50	31411	12.03	ug/L		98
4) Vinyl Chloride	2.100	62	32203	11.39	ug/L		94
5) Bromomethane	2.533	96	22785	12.84	ug/L		97
6) Chloroethane	2.710	64	11336	10.77	ug/L		88
7) Trichlorofluoromethane	2.905	101	32312	9.02	ug/L		98
8) Ethanol	3.612	45	44890	705.83	ug/L		83
9) 1,1-Dichloroethene	3.563	61	37076	10.44	ug/L		93
10) Carbon Disulfide	3.563	76	45558	9.84	ug/L		99
11) Freon 113	3.636	101	23367	10.35	ug/L		94
12) Iodomethane	3.728	142	4602	8.10	ug/L		93
13) Acrolein	4.008	56	6310	11.93	ug/L		98
14) Methylene Chloride	4.295	84	33896	13.39	ug/L		93
15) Acetone	4.380	43	28163	21.54	ug/L		95
16) t-1,2-Dichloroethene	4.484	61	36259	11.01	ug/L		96
17) n-Hexane	4.581	86	3233	11.03	ug/L	#	28
18) Methyl-tert-butyl-ether	4.636	73	62513	11.36	ug/L		100
19) tert-Butanol (TBA)	4.801	59	272405	723.53	ug/L	#	64
20) Diisopropyl ether (DIPE)	5.087	45	17898	2.84	ug/L		94
21) 1,1-Dichloroethane	5.191	63	49091	11.27	ug/L		99
22) Acrylonitrile	5.264	53	16003	12.00	ug/L		95
23) Vinyl Acetate	5.508	43	33186	9.43	ug/L		94
24) Ethyl-tert-butyl ether...	5.496	59	13478	2.78	ug/L		92
25) c-1,2-Dichloroethene	5.795	61	36783	11.69	ug/L		92
26) 2,2-Dichloropropane	5.910	77	19999	10.79	ug/L	#	55
27) Bromochloromethane	6.014	49	26657	12.27	ug/L		86
28) Chloroform	6.105	83	47467	10.99	ug/L		97
29) Carbon Tetrachloride	6.233	117	24278	10.56	ug/L		94
30) Tetrahydrofuran	6.282	42	13399	11.17	ug/L		94
31) 1,1,1-Trichloroethane	6.313	97	33372	10.41	ug/L		91
33) 1,1-Dichloropropene	6.453	75	32463	10.99	ug/L		95
34) 2-Butanone (MEK)	6.453	43	41809	22.02	ug/L		97
35) Benzene	6.727	78	111329	11.54	ug/L		99
36) tert-Amyl methyl ether...	6.874	73	12901	2.77	ug/L		72
37) 1,2-Dichloroethane (EDC)	6.959	62	37364	10.58	ug/L		98
38) iso-Butyl Alcohol	7.020	43	59903	259.65	ug/L		90
40) Trichloroethene (TCE)	7.380	130	28530	9.70	ug/L		97
41) tert-Amyl ethyl ether ...	7.660	59	8864	2.97	ug/L		86
42) Dibromomethane	7.855	93	18454	11.11	ug/L		90
43) 1,2-Dichloropropane	7.965	63	29839	11.64	ug/L		91
44) Bromodichloromethane	8.050	83	29724	10.70	ug/L		96
46) 2-Chloroethyl Vinyl Ether	8.715	63	9597	6.38	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	31828	11.00	ug/L		97
49) Toluene	9.019	91	116159	10.44	ug/L		100

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042811.D
Acq On : 28 Apr 2020 6:31 pm
Operator : PS
Sample : 0D28059-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 14:27:32 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

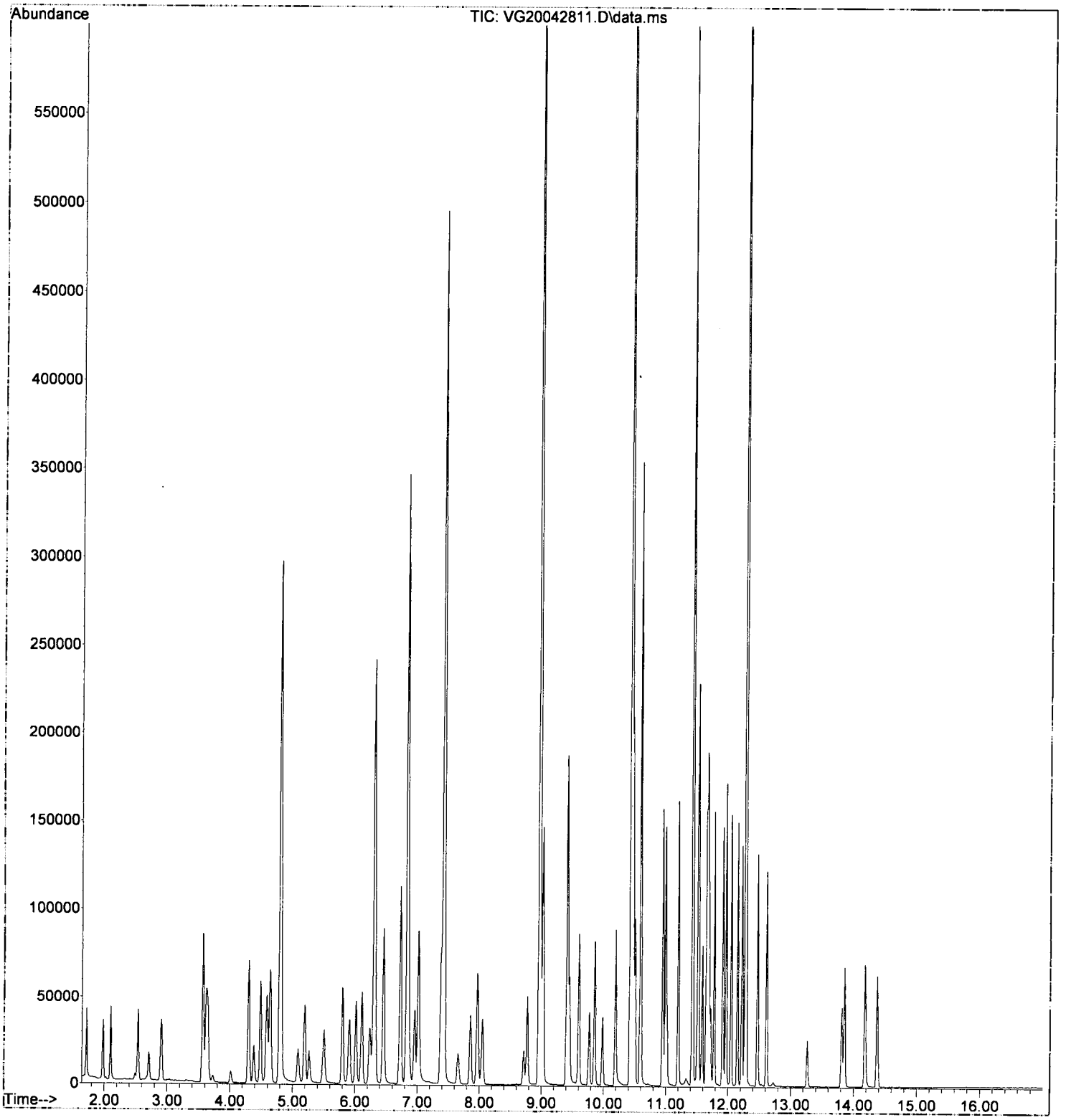
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	24546	8.51	ug/L		93
51) 4-Methyl-2-Pentanone (...	9.416	43	78447	20.33	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	28464	9.65	ug/L		99
53) 1,1,2-Trichloroethane	9.599	97	27495	10.74	ug/L		93
54) Dibromochloromethane	9.769	129	21974	8.86	ug/L		99
55) 1,3-Dichloropropane	9.855	76	44749	11.33	ug/L		94
56) 1,2-Dibromoethane (EDB)	9.983	107	25910	10.04	ug/L		97
57) 2-Hexanone	10.190	43	54460	18.66	ug/L		94
58) Chlorobenzene	10.446	112	73524	9.82	ug/L		96
59) Ethylbenzene	10.470	91	120072	10.31	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	21231	9.75	ug/L		94
61) m,p-Xylenes (2)	10.592	91	172596	19.69	ug/L		97
62) o-Xylene	10.946	91	80619	9.29	ug/L		94
63) Styrene	10.995	104	65789	9.47	ug/L		98
64) Bromoform	11.019	173	14508	7.95	ug/L		98
65) Isopropylbenzene	11.196	105	93386	9.26	ug/L		96
68) Bromobenzene	11.513	156	28215	9.11	ug/L		87
69) n-Propylbenzene	11.525	91	115790	10.63	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.586	83	35152	11.49	ug/L		96
71) 2-Chlorotoluene	11.647	126	24180	10.04	ug/L		93
72) 1,3,5-Trimethylbenzene	11.671	105	77814	10.98	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	11646	10.78	ug/L	#	76
74) t-1,4-Dichloro-2-butene	11.720	88	3230	10.01	ug/L	#	70
75) 4-Chlorotoluene	11.775	91	74114	10.95	ug/L		95
76) tert-Butylbenzene	11.915	91	39548	10.33	ug/L		92
77) 1,2,4-Trimethylbenzene	11.964	105	77201	11.01	ug/L		95
78) sec-Butylbenzene	12.043	105	88075	11.15	ug/L		94
79) 4-Isopropyltoluene	12.147	119	66417	9.64	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	47228	10.06	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	50096	9.55	ug/L		97
82) n-Butylbenzene	12.470	91	63004	11.27	ug/L		94
83) 1,2-Dichlorobenzene	12.616	146	45442	9.84	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	6172	8.57	ug/L		72
85) Hexachlorobutadiene	13.811	223	5547	9.00	ug/L		94
86) 1,2,4-Trichlorobenzene	13.854	180	21662	8.89	ug/L		95
87) Naphthalene	14.177	128	61073	8.39	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	22187	9.17	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042811.D
Acq On : 28 Apr 2020 6:31 pm
Operator : PS
Sample : 0D28059-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 14:27:32 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042812.D
Acq On : 28 Apr 2020 6:58 pm
Operator : PS
Sample : 0D28059-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 29 14:27:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	145168	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	402229	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	194144	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	142690	52.65	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	457229	52.48	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	543124	51.41	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	151710	46.23	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	57105	21.18	ug/L		98
3) Chloromethane	1.978	50	68020	25.02	ug/L		99
4) Vinyl Chloride	2.100	62	69809	23.72	ug/L		96
5) Bromomethane	2.533	96	44234	23.93	ug/L		98
6) Chloroethane	2.704	64	21007	19.59	ug/L		96
7) Trichlorofluoromethane	2.899	101	70026	18.78	ug/L		99
8) Ethanol	3.618	45	95124	1436.50	ug/L		84
9) 1,1-Dichloroethene	3.563	61	82498	22.30	ug/L		95
10) Carbon Disulfide	3.563	76	107913	22.40	ug/L		98
11) Freon 113	3.636	101	50999	21.69	ug/L		92
12) Iodomethane	3.728	142	15447	16.58	ug/L		92
13) Acrolein	4.008	56	14426	26.20	ug/L		96
14) Methylene Chloride	4.295	84	66422	25.21	ug/L		94
15) Acetone	4.380	43	59628	43.79	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	80067	23.34	ug/L		98
17) n-Hexane	4.581	86	7464	24.45	ug/L	#	28
18) Methyl-tert-butyl-ether	4.636	73	143781	25.09	ug/L		98
19) tert-Butanol (TBA)	4.801	59	633758	1616.70	ug/L	#	74
20) Diisopropyl ether (DIPE)	5.087	45	39213	5.97	ug/L		95
21) 1,1-Dichloroethane	5.191	63	107573	23.72	ug/L		100
22) Acrylonitrile	5.264	53	36134	26.03	ug/L		95
23) Vinyl Acetate	5.502	43	83858	21.58	ug/L		95
24) Ethyl-tert-butyl ether...	5.490	59	30757	6.10	ug/L		93
25) c-1,2-Dichloroethene	5.795	61	81309	24.83	ug/L		96
26) 2,2-Dichloropropane	5.904	77	46097	23.88	ug/L	#	66
27) Bromochloromethane	6.014	49	56728	25.08	ug/L		90
28) Chloroform	6.106	83	101369	22.53	ug/L		96
29) Carbon Tetrachloride	6.234	117	56466	23.59	ug/L		98
30) Tetrahydrofuran	6.282	42	29915	23.95	ug/L		96
31) 1,1,1-Trichloroethane	6.313	97	75474	22.61	ug/L		94
33) 1,1-Dichloropropene	6.453	75	75641	24.60	ug/L		97
34) 2-Butanone (MEK)	6.453	43	96125	48.62	ug/L		98
35) Benzene	6.727	78	246984	24.59	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	28625	5.90	ug/L		76
37) 1,2-Dichloroethane (EDC)	6.959	62	80002	21.75	ug/L		98
38) iso-Butyl Alcohol	7.014	43	141129	587.52	ug/L		93
40) Trichloroethene (TCE)	7.380	130	63379	20.70	ug/L		95
41) tert-Amyl ethyl ether ...	7.654	59	20211	6.51	ug/L		89
42) Dibromomethane	7.855	93	39871	23.05	ug/L		88
43) 1,2-Dichloropropane	7.965	63	64553	24.18	ug/L		92
44) Bromodichloromethane	8.050	83	68001	23.51	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.715	63	25300	16.05	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	76593	25.27	ug/L		96
49) Toluene	9.020	91	254746	21.86	ug/L		98

4/30/2024

07/15/20 Anchor QEA, LLC - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 347 of 1443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042812.D
Acq On : 28 Apr 2020 6:58 pm
Operator : PS
Sample : 0D28059-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 29 14:27:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	55366	18.33	ug/L		93
51) 4-Methyl-2-Pentanone (...	9.410	43	181192	44.83	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	69258	21.65	ug/L		95
53) 1,1,2-Trichloroethane	9.599	97	59774	22.30	ug/L		97
54) Dibromochloromethane	9.769	129	51693	19.44	ug/L		99
55) 1,3-Dichloropropane	9.855	76	97867	23.65	ug/L		97
56) 1,2-Dibromoethane (EDB)	9.983	107	59469	22.01	ug/L		98
57) 2-Hexanone	10.190	43	131124	42.89	ug/L		98
58) Chlorobenzene	10.446	112	161648	20.60	ug/L		100
59) Ethylbenzene	10.464	91	267924	21.95	ug/L		98
60) 1,1,1,2-Tetrachloroethane	10.501	131	48948	21.45	ug/L		95
61) m,p-Xylenes (2)	10.592	91	395642	42.79	ug/L		97
62) o-Xylene	10.946	91	192167	20.90	ug/L		97
63) Styrene	10.989	104	155824	20.85	ug/L		99
64) Bromoform	11.019	173	35427	17.79	ug/L		97
65) Isopropylbenzene	11.196	105	224839	20.78	ug/L		96
68) Bromobenzene	11.513	156	64696	19.21	ug/L		87
69) n-Propylbenzene	11.519	91	270477	22.83	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.586	83	78508	23.61	ug/L		96
71) 2-Chlorotoluene	11.647	126	56094	21.41	ug/L		93
72) 1,3,5-Trimethylbenzene	11.672	105	183706	23.83	ug/L		94
73) 1,2,3-Trichloropropane	11.690	110	25712	21.89	ug/L	#	80
74) t-1,4-Dichloro-2-butene	11.720	88	8122	21.34	ug/L	#	79
75) 4-Chlorotoluene	11.775	91	171897	23.37	ug/L		95
76) tert-Butylbenzene	11.909	91	93619	22.49	ug/L		87
77) 1,2,4-Trimethylbenzene	11.964	105	181278	23.78	ug/L		97
78) sec-Butylbenzene	12.043	105	208931	24.34	ug/L		94
79) 4-Isopropyltoluene	12.147	119	162974	21.42	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	108348	21.23	ug/L		97
81) 1,4-Dichlorobenzene	12.287	146	112685	19.75	ug/L		96
82) n-Butylbenzene	12.470	91	150042	24.68	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	105171	20.95	ug/L		97
84) 1,2-Dibromo-3-Chloropr...	13.263	157	15323	19.57	ug/L		76
85) Hexachlorobutadiene	13.811	223	12746	19.01	ug/L		97
86) 1,2,4-Trichlorobenzene	13.854	180	54807	20.69	ug/L		97
87) Naphthalene	14.177	128	176300	20.67	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	55471	21.09	ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042812.D
Acq On : 28 Apr 2020 6:58 pm
Operator : PS
Sample : 0D28059-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 29 14:27:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	145168	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	402229	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	194144	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	142690	52.65	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	457229	52.48	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	543124	51.41	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	151710	46.23	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	57105	21.18	ug/L		98
3) Chloromethane	1.978	50	68020	25.02	ug/L		99
4) Vinyl Chloride	2.100	62	69809	23.72	ug/L		96
5) Bromomethane	2.533	96	44234	23.93	ug/L		98
6) Chloroethane	2.704	64	21007	19.59	ug/L		96
7) Trichlorofluoromethane	2.899	101	70026	18.78	ug/L		99
8) Ethanol	3.618	45	95124	1436.50	ug/L		84
9) 1,1-Dichloroethene	3.563	61	82498	22.30	ug/L		95
10) Carbon Disulfide	3.563	76	107913	22.40	ug/L		98
11) Freon 113	3.636	101	50999	21.69	ug/L		92
12) Iodomethane	3.728	142	15447	16.58	ug/L		92
13) Acrolein	4.008	56	14426	26.20	ug/L		96
14) Methylene Chloride	4.295	84	66422	25.21	ug/L		94
15) Acetone	4.380	43	59628	43.79	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	80067	23.34	ug/L		98
17) n-Hexane	4.581	86	7464	24.45	ug/L	#	28
18) Methyl-tert-butyl-ether	4.636	73	143781	25.09	ug/L		98
19) tert-Butanol (TBA)	4.801	59	633758	1616.70	ug/L	#	74
20) Diisopropyl ether (DIPE)	5.087	45	39213	5.97	ug/L		95
21) 1,1-Dichloroethane	5.191	63	107573	23.72	ug/L		100
22) Acrylonitrile	5.264	53	36134	26.03	ug/L		95
23) Vinyl Acetate	5.502	43	83858	21.58	ug/L		95
24) Ethyl-tert-butyl ether...	5.490	59	30757	6.10	ug/L		93
25) c-1,2-Dichloroethene	5.795	61	81309	24.83	ug/L		96
26) 2,2-Dichloropropane	5.904	77	46097	23.88	ug/L	#	66
27) Bromochloromethane	6.014	49	56728	25.08	ug/L		90
28) Chloroform	6.106	83	101369	22.53	ug/L		96
29) Carbon Tetrachloride	6.234	117	56466	23.59	ug/L		98
30) Tetrahydrofuran	6.282	42	29915	23.95	ug/L		96
31) 1,1,1-Trichloroethane	6.313	97	75474	22.61	ug/L		94
33) 1,1-Dichloropropene	6.453	75	75641	24.60	ug/L		97
34) 2-Butanone (MEK)	6.453	43	96125	48.62	ug/L		98
35) Benzene	6.727	78	246984	24.59	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	28625	5.90	ug/L		76
37) 1,2-Dichloroethane (EDC)	6.959	62	80002	21.75	ug/L		98
38) iso-Butyl Alcohol	7.014	43	141129	587.52	ug/L		93
40) Trichloroethene (TCE)	7.380	130	63379	20.70	ug/L		95
41) tert-Amyl ethyl ether ...	7.654	59	20211	6.51	ug/L		89
42) Dibromomethane	7.855	93	39871	23.06	ug/L		88
43) 1,2-Dichloropropane	7.965	63	64553	24.18	ug/L		92
44) Bromodichloromethane	8.050	83	68001	23.51	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.715	63	25300	16.05	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	76593	25.27	ug/L		96
49) Toluene	9.020	91	254746	21.86	ug/L		98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042812.D
Acq On : 28 Apr 2020 6:58 pm
Operator : PS
Sample : 0D28059-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 29 14:27:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

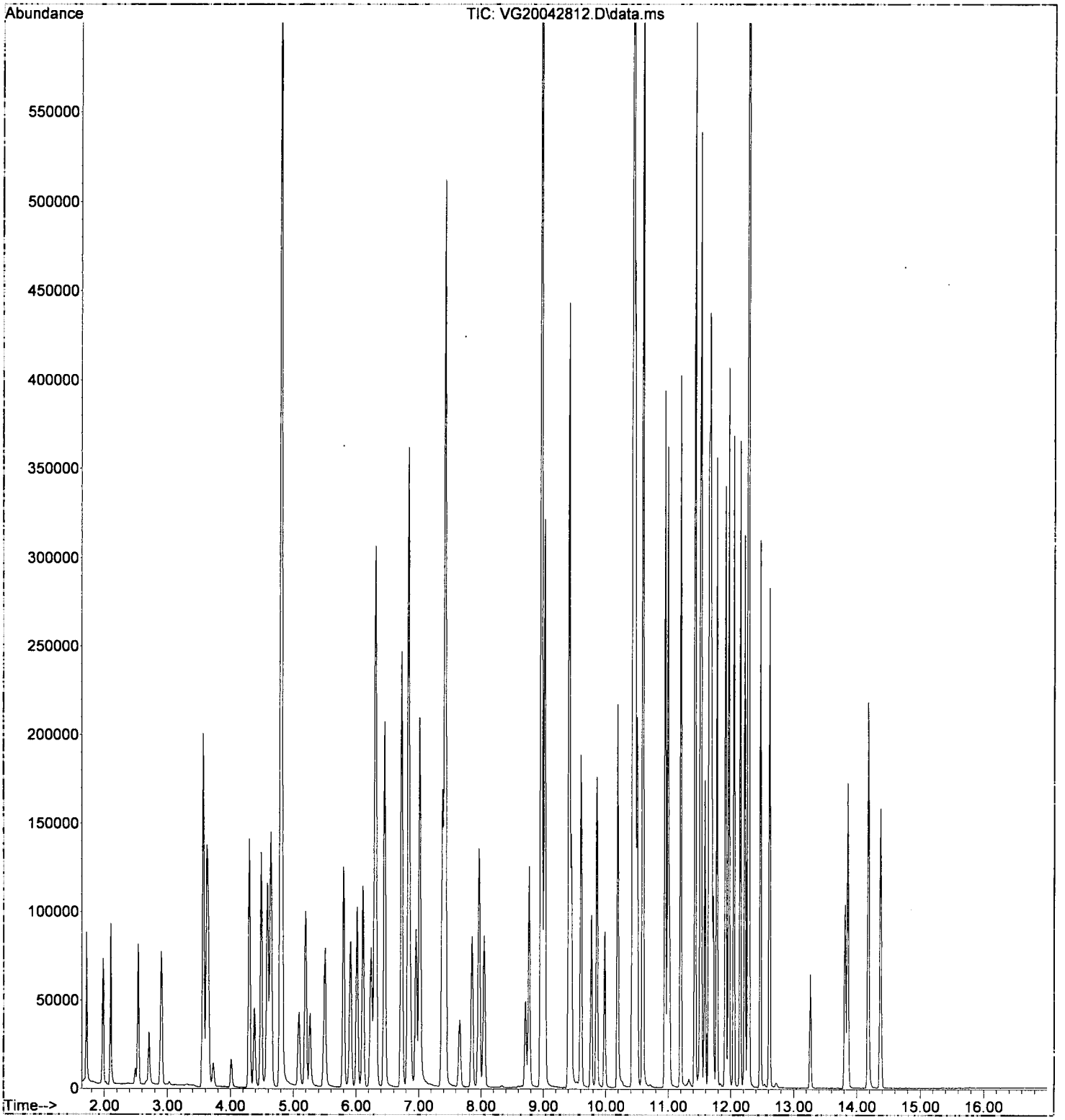
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	55366	18.33	ug/L		93
51) 4-Methyl-2-Pentanone (...	9.410	43	181192	44.83	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	69258	21.65	ug/L		95
53) 1,1,2-Trichloroethane	9.599	97	59774	22.30	ug/L		97
54) Dibromochloromethane	9.769	129	51693	19.44	ug/L		99
55) 1,3-Dichloropropane	9.855	76	97867	23.65	ug/L		97
56) 1,2-Dibromoethane (EDB)	9.983	107	59469	22.01	ug/L		98
57) 2-Hexanone	10.190	43	131124	42.89	ug/L		98
58) Chlorobenzene	10.446	112	161648	20.60	ug/L		100
59) Ethylbenzene	10.464	91	267924	21.95	ug/L		98
60) 1,1,1,2-Tetrachloroethane	10.501	131	48948	21.45	ug/L		95
61) m,p-Xylenes (2)	10.592	91	395642	42.79	ug/L		97
62) o-Xylene	10.946	91	192167	20.90	ug/L		97
63) Styrene	10.989	104	155824	20.85	ug/L		99
64) Bromoform	11.019	173	35427	17.79	ug/L		97
65) Isopropylbenzene	11.196	105	224839	20.78	ug/L		96
68) Bromobenzene	11.513	156	64696	19.21	ug/L		87
69) n-Propylbenzene	11.519	91	270477	22.83	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.586	83	78508	23.61	ug/L		96
71) 2-Chlorotoluene	11.647	126	56094	21.41	ug/L		93
72) 1,3,5-Trimethylbenzene	11.672	105	183706	23.83	ug/L		94
73) 1,2,3-Trichloropropane	11.690	110	25712	21.89	ug/L	#	80
74) t-1,4-Dichloro-2-butene	11.720	88	8122	21.34	ug/L	#	79
75) 4-Chlorotoluene	11.775	91	171897	23.37	ug/L		95
76) tert-Butylbenzene	11.909	91	93619	22.49	ug/L		87
77) 1,2,4-Trimethylbenzene	11.964	105	181278	23.78	ug/L		97
78) sec-Butylbenzene	12.043	105	208931	24.34	ug/L		94
79) 4-Isopropyltoluene	12.147	119	162974	21.42	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	108348	21.23	ug/L		97
81) 1,4-Dichlorobenzene	12.287	146	112685	19.75	ug/L		96
82) n-Butylbenzene	12.470	91	150042	24.68	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	105171	20.95	ug/L		97
84) 1,2-Dibromo-3-Chloropr...	13.263	157	15323	19.57	ug/L		76
85) Hexachlorobutadiene	13.811	223	12746	19.01	ug/L		97
86) 1,2,4-Trichlorobenzene	13.854	180	54807	20.69	ug/L		97
87) Naphthalene	14.177	128	176300	20.67	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	55471	21.09	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042812.D
Acq On : 28 Apr 2020 6:58 pm
Operator : PS
Sample : 0D28059-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 29 14:27:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042813.D
Acq On : 28 Apr 2020 7:25 pm
Operator : PS
Sample : 0D28059-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 29 14:27:38 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	155943	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	433790	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	218062	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	153880	52.85	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	494278	52.81	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	579127	50.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	167491	45.44	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	168157	58.05	ug/L		99
3) Chloromethane	1.978	50	188663	64.61	ug/L		100
4) Vinyl Chloride	2.100	62	203097	64.23	ug/L		95
5) Bromomethane	2.533	96	110130	55.47	ug/L		99
6) Chloroethane	2.710	64	56347	51.46	ug/L		95
7) Trichlorofluoromethane	2.905	101	188165	46.98	ug/L		98
8) Ethanol	3.612	45	204153	2869.95	ug/L		85
9) 1,1-Dichloroethene	3.563	61	219956	55.35	ug/L		96
10) Carbon Disulfide	3.563	76	325731	62.93	ug/L		99
11) Freon 113	3.642	101	132348	52.39	ug/L		93
12) Iodomethane	3.728	142	70400	51.40	ug/L		93
13) Acrolein	4.008	56	40730	68.87	ug/L		94
14) Methylene Chloride	4.295	84	166231	58.73	ug/L		95
15) Acetone	4.374	43	147679	100.97	ug/L		98
16) t-1,2-Dichloroethene	4.484	61	216769	58.83	ug/L		97
17) n-Hexane	4.581	86	21842	66.61	ug/L	#	25
18) Methyl-tert-butyl-ether	4.636	73	389222	63.22	ug/L		99
19) tert-Butanol (TBA)	4.801	59	1397478	3318.62	ug/L	#	84
20) Diisopropyl ether (DIPE)	5.087	45	85733	12.15	ug/L		95
21) 1,1-Dichloroethane	5.191	63	283431	58.18	ug/L		99
22) Acrylonitrile	5.264	53	93340	62.60	ug/L		97
23) Vinyl Acetate	5.502	43	304318	66.41	ug/L		96
24) Ethyl-tert-butyl ether...	5.490	59	70095	12.94	ug/L		95
25) c-1,2-Dichloroethene	5.794	61	221030	62.83	ug/L		98
26) 2,2-Dichloropropane	5.910	77	127143	61.30	ug/L		72
27) Bromochloromethane	6.014	49	145300	59.79	ug/L		91
28) Chloroform	6.105	83	267420	55.34	ug/L		98
29) Carbon Tetrachloride	6.233	117	159439	62.00	ug/L		95
30) Tetrahydrofuran	6.276	42	82643	61.59	ug/L		97
31) 1,1,1-Trichloroethane	6.313	97	205435	57.29	ug/L		95
33) 1,1-Dichloropropene	6.453	75	206166	62.41	ug/L		97
34) 2-Butanone (MEK)	6.447	43	254544	119.85	ug/L		98
35) Benzene	6.727	78	657475	60.93	ug/L		98
36) tert-Amyl methyl ether...	6.867	73	61641	11.83	ug/L		80
37) 1,2-Dichloroethane (EDC)	6.953	62	207503	52.51	ug/L		98
38) iso-Butyl Alcohol	7.014	43	390505	1513.34	ug/L		98
40) Trichloroethene (TCE)	7.380	130	165009	50.17	ug/L		96
41) tert-Amyl ethyl ether ...	7.660	59	45170	13.54	ug/L		88
42) Dibromomethane	7.855	93	106537	57.33	ug/L		89
43) 1,2-Dichloropropane	7.965	63	174417	60.81	ug/L		91
44) Bromodichloromethane	8.050	83	188929	60.82	ug/L		97
46) 2-Chloroethyl Vinyl Ether	8.709	63	75399	44.35	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	224852	68.80	ug/L		95
49) Toluene	9.019	91	677362	53.89	ug/L		99

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042813.D
Acq On : 28 Apr 2020 7:25 pm
Operator : PS
Sample : 0D28059-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 29 14:27:38 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	148064	45.45	ug/L		92
51) 4-Methyl-2-Pentanone (...	9.410	43	494983	113.55	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	202313	55.72	ug/L		97
53) 1,1,2-Trichloroethane	9.599	97	160242	55.42	ug/L		96
54) Dibromochloromethane	9.769	129	151282	50.65	ug/L		99
55) 1,3-Dichloropropane	9.855	76	264551	59.29	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.983	107	162144	55.64	ug/L		98
57) 2-Hexanone	10.184	43	365112	110.75	ug/L		98
58) Chlorobenzene	10.446	112	430146	50.84	ug/L		99
59) Ethylbenzene	10.464	91	723698	54.99	ug/L		98
60) 1,1,1,2-Tetrachloroethane	10.501	131	135859	55.21	ug/L		96
61) m,p-Xylenes (2)	10.592	91	1089425	107.58	ug/L		99
62) o-Xylene	10.946	91	545910	53.79	ug/L		97
63) Styrene	10.989	104	443946	53.60	ug/L		100
64) Bromoform	11.019	173	109913	48.08	ug/L		97
65) Isopropylbenzene	11.196	105	634097	52.84	ug/L		98
68) Bromobenzene	11.507	156	178576	47.20	ug/L	#	83
69) n-Propylbenzene	11.519	91	753971	56.67	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.580	83	218708	58.56	ug/L		97
71) 2-Chlorotoluene	11.647	126	158246	53.78	ug/L		96
72) 1,3,5-Trimethylbenzene	11.671	105	514083	59.37	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	67976	51.53	ug/L	#	80
74) t-1,4-Dichloro-2-butene	11.720	88	24353	53.32	ug/L	#	91
75) 4-Chlorotoluene	11.775	91	475089	57.50	ug/L		96
76) tert-Butylbenzene	11.909	91	266112	56.93	ug/L		90
77) 1,2,4-Trimethylbenzene	11.964	105	509496	59.50	ug/L		97
78) sec-Butylbenzene	12.043	105	590118	61.20	ug/L		96
79) 4-Isopropyltoluene	12.147	119	475738	54.26	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	304760	53.16	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	311097	48.54	ug/L		96
82) n-Butylbenzene	12.464	91	421761	61.76	ug/L		95
83) 1,2-Dichlorobenzene	12.610	146	294861	52.28	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	45658	51.91	ug/L		86
85) Hexachlorobutadiene	13.811	223	32798	43.56	ug/L		96
86) 1,2,4-Trichlorobenzene	13.854	180	150152	50.48	ug/L		97
87) Naphthalene	14.177	128	510381	51.15	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	144488	48.91	ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042813.D
Acq On : 28 Apr 2020 7:25 pm
Operator : PS
Sample : 0D28059-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 29 14:27:38 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	155943	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	433790	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	218062	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	153880	52.85	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	494278	52.81	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	579127	50.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	167491	45.44	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	168157	58.05	ug/L		99
3) Chloromethane	1.978	50	188663	64.61	ug/L		100
4) Vinyl Chloride	2.100	62	203097	64.23	ug/L		95
5) Bromomethane	2.533	96	110130	55.47	ug/L		99
6) Chloroethane	2.710	64	56347	51.46	ug/L		95
7) Trichlorofluoromethane	2.905	101	188165	46.98	ug/L		98
8) Ethanol	3.612	45	204153	2869.95	ug/L		85
9) 1,1-Dichloroethene	3.563	61	219956	55.35	ug/L		96
10) Carbon Disulfide	3.563	76	325731	62.93	ug/L		99
11) Freon 113	3.642	101	132348	52.39	ug/L		93
12) Iodomethane	3.728	142	70400	51.40	ug/L		93
13) Acrolein	4.008	56	40730	68.87	ug/L		94
14) Methylene Chloride	4.295	84	166231	58.73	ug/L		95
15) Acetone	4.374	43	147679	100.97	ug/L		98
16) t-1,2-Dichloroethene	4.484	61	216769	58.83	ug/L		97
17) n-Hexane	4.581	86	21842	66.61	ug/L	#	25
18) Methyl-tert-butyl-ether	4.636	73	389222	63.22	ug/L		99
19) tert-Butanol (TBA)	4.801	59	1397478	3318.62	ug/L	#	84
20) Diisopropyl ether (DIPE)	5.087	45	85733	12.15	ug/L		95
21) 1,1-Dichloroethane	5.191	63	283431	58.18	ug/L		99
22) Acrylonitrile	5.264	53	93340	62.60	ug/L		97
23) Vinyl Acetate	5.502	43	304318	66.41	ug/L		96
24) Ethyl-tert-butyl ether...	5.490	59	70095	12.94	ug/L		95
25) c-1,2-Dichloroethene	5.794	61	221030	62.83	ug/L		98
26) 2,2-Dichloropropane	5.910	77	127143	61.30	ug/L		72
27) Bromochloromethane	6.014	49	145300	59.79	ug/L		91
28) Chloroform	6.105	83	267420	55.34	ug/L		98
29) Carbon Tetrachloride	6.233	117	159439	62.00	ug/L		95
30) Tetrahydrofuran	6.276	42	82643	61.59	ug/L		97
31) 1,1,1-Trichloroethane	6.313	97	205435	57.29	ug/L		95
33) 1,1-Dichloropropene	6.453	75	206166	62.41	ug/L		97
34) 2-Butanone (MEK)	6.447	43	254544	119.85	ug/L		98
35) Benzene	6.727	78	657475	60.93	ug/L		98
36) tert-Amyl methyl ether...	6.867	73	61641	11.83	ug/L		80
37) 1,2-Dichloroethane (EDC)	6.953	62	207503	52.51	ug/L		98
38) iso-Butyl Alcohol	7.014	43	390505	1513.34	ug/L		98
40) Trichloroethene (TCE)	7.380	130	165009	50.17	ug/L		96
41) tert-Amyl ethyl ether ...	7.660	59	45170	13.54	ug/L		88
42) Dibromomethane	7.855	93	106537	57.33	ug/L		89
43) 1,2-Dichloropropane	7.965	63	174417	60.81	ug/L		91
44) Bromodichloromethane	8.050	83	188929	60.82	ug/L		97
46) 2-Chloroethyl Vinyl Ether	8.709	63	75399	44.35	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	224852	68.80	ug/L		95
49) Toluene	9.019	91	677362	53.89	ug/L		99

4/29/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042813.D
Acq On : 28 Apr 2020 7:25 pm
Operator : PS
Sample : 0D28059-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 29 14:27:38 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

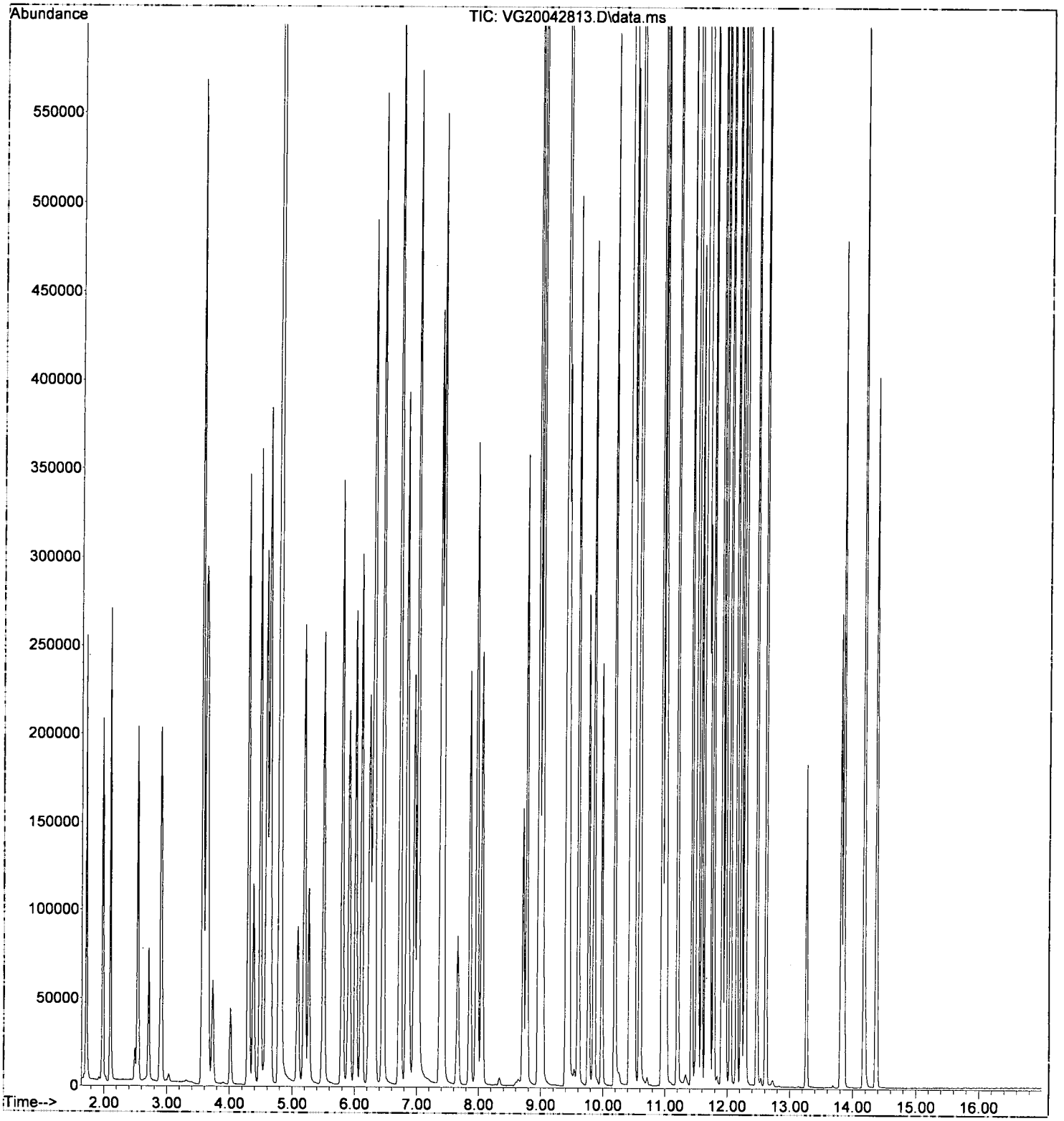
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	148064	45.45	ug/L		92
51) 4-Methyl-2-Pentanone (...	9.410	43	494983	113.55	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	202313	55.72	ug/L		97
53) 1,1,2-Trichloroethane	9.599	97	160242	55.42	ug/L		96
54) Dibromochloromethane	9.769	129	151282	50.65	ug/L		99
55) 1,3-Dichloropropane	9.855	76	264551	59.29	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.983	107	162144	55.64	ug/L		98
57) 2-Hexanone	10.184	43	365112	110.75	ug/L		98
58) Chlorobenzene	10.446	112	430146	50.84	ug/L		99
59) Ethylbenzene	10.464	91	723698	54.99	ug/L		98
60) 1,1,1,2-Tetrachloroethane	10.501	131	135859	55.21	ug/L		96
61) m,p-Xylenes (2)	10.592	91	1089425	107.58	ug/L		99
62) o-Xylene	10.946	91	545910	53.79	ug/L		97
63) Styrene	10.989	104	443946	53.60	ug/L		100
64) Bromoform	11.019	173	109913	48.08	ug/L		97
65) Isopropylbenzene	11.196	105	634097	52.84	ug/L		98
68) Bromobenzene	11.507	156	178576	47.20	ug/L	#	83
69) n-Propylbenzene	11.519	91	753971	56.67	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.580	83	218708	58.56	ug/L		97
71) 2-Chlorotoluene	11.647	126	158246	53.78	ug/L		96
72) 1,3,5-Trimethylbenzene	11.671	105	514083	59.37	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	67976	51.53	ug/L	#	80
74) t-1,4-Dichloro-2-butene	11.720	88	24353	53.32	ug/L	#	91
75) 4-Chlorotoluene	11.775	91	475089	57.50	ug/L		96
76) tert-Butylbenzene	11.909	91	266112	56.93	ug/L		90
77) 1,2,4-Trimethylbenzene	11.964	105	509496	59.50	ug/L		97
78) sec-Butylbenzene	12.043	105	590118	61.20	ug/L		96
79) 4-Isopropyltoluene	12.147	119	475738	54.26	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	304760	53.16	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	311097	48.54	ug/L		96
82) n-Butylbenzene	12.464	91	421761	61.76	ug/L		95
83) 1,2-Dichlorobenzene	12.610	146	294861	52.28	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	45658	51.91	ug/L		86
85) Hexachlorobutadiene	13.811	223	32798	43.56	ug/L		96
86) 1,2,4-Trichlorobenzene	13.854	180	150152	50.48	ug/L		97
87) Naphthalene	14.177	128	510381	51.15	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	144488	48.91	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042813.D
Acq On : 28 Apr 2020 7:25 pm
Operator : PS
Sample : 0D28059-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 29 14:27:38 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042814.D
Acq On : 28 Apr 2020 7:52 pm
Operator : PS
Sample : 0D28059-IBL3
Misc : 1X 5mL DI
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 30 09:38:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	131823	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	360516	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	150819	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	130265	49.70 ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	429165	50.60 ug/L		0.00
48) Toluene-d8 (S)	8.965	98	501547	50.96 ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	124761	51.56 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.716	85	514	0.19 ug/L		71
3) Chloromethane	1.978	50	351	0.11 ug/L		89
4) Vinyl Chloride	2.094	62	269	0.08 ug/L	#	1
5) Bromomethane	2.533	96	260	0.13 ug/L	#	68
6) Chloroethane	2.722	64	55	Below Cal	#	47
7) Trichlorofluoromethane	2.905	101	409	0.12 ug/L		84
8) Ethanol	3.612	45	325	4.76 ug/L	#	55
9) 1,1-Dichloroethene	3.569	61	468	0.13 ug/L		80
10) Carbon Disulfide	3.569	76	1853	0.40 ug/L		95
11) Freon 113	3.649	101	400	0.17 ug/L		91
12) Iodomethane	0.000		0	N.D.		
13) Acrolein	4.130	56	10	0.02 ug/L	#	1
14) Methylene Chloride	4.295	84	2933	0.98 ug/L		85
15) Acetone	4.386	43	1587	1.17 ug/L		86
16) t-1,2-Dichloroethene	4.478	61	650	0.18 ug/L		78
17) n-Hexane	4.575	86	22	0.07 ug/L	#	80
18) Methyl-tert-butyl-ether	0.000		0	N.D.		
19) tert-Butanol (TBA)	4.813	59	642	1.61 ug/L	#	73
20) Diisopropyl ether (DIPE)	0.000		0	N.D.		
21) 1,1-Dichloroethane	5.185	63	107	0.02 ug/L	#	50
22) Acrylonitrile	5.289	53	10	0.01 ug/L	#	14
23) Vinyl Acetate	5.478	43	11	1.13 ug/L		74
24) Ethyl-tert-butyl ether...	0.000		0	N.D.		
25) c-1,2-Dichloroethene	5.801	61	258	0.07 ug/L		92
26) 2,2-Dichloropropane	5.904	77	10	0.01 ug/L	#	44
27) Bromochloromethane	6.026	49	122	0.05 ug/L	#	32
28) Chloroform	6.112	83	147	0.03 ug/L	#	49
29) Carbon Tetrachloride	6.246	117	30	0.01 ug/L	#	13
30) Tetrahydrofuran	6.282	42	10	0.01 ug/L	#	30
31) 1,1,1-Trichloroethane	6.313	97	61	0.02 ug/L	#	25
33) 1,1-Dichloropropene	6.459	75	345	0.11 ug/L	#	39
34) 2-Butanone (MEK)	6.386	43	20	0.01 ug/L		52
35) Benzene	6.733	78	537	0.05 ug/L		83
36) tert-Amyl methyl ether...	6.831	73	222	0.04 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.971	62	122	0.03 ug/L	#	49
38) iso-Butyl Alcohol	7.038	43	11	0.04 ug/L	#	22
40) Trichloroethene (TCE)	7.380	130	329	0.11 ug/L		68
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	7.861	93	106	0.06 ug/L	#	18
43) 1,2-Dichloropropane	7.983	63	10	0.00 ug/L	#	13
44) Bromodichloromethane	8.056	83	10	0.00 ug/L	#	26
46) 2-Chloroethyl Vinyl Ether	8.599	63	10	0.76 ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	57	0.60 ug/L		57
49) Toluene	9.020	91	1054	0.09 ug/L		89

NK 4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042814.D
Acq On : 28 Apr 2020 7:52 pm
Operator : PS
Sample : 0D28059-IBL3
Misc : 1X 5mL DI
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 30 09:38:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

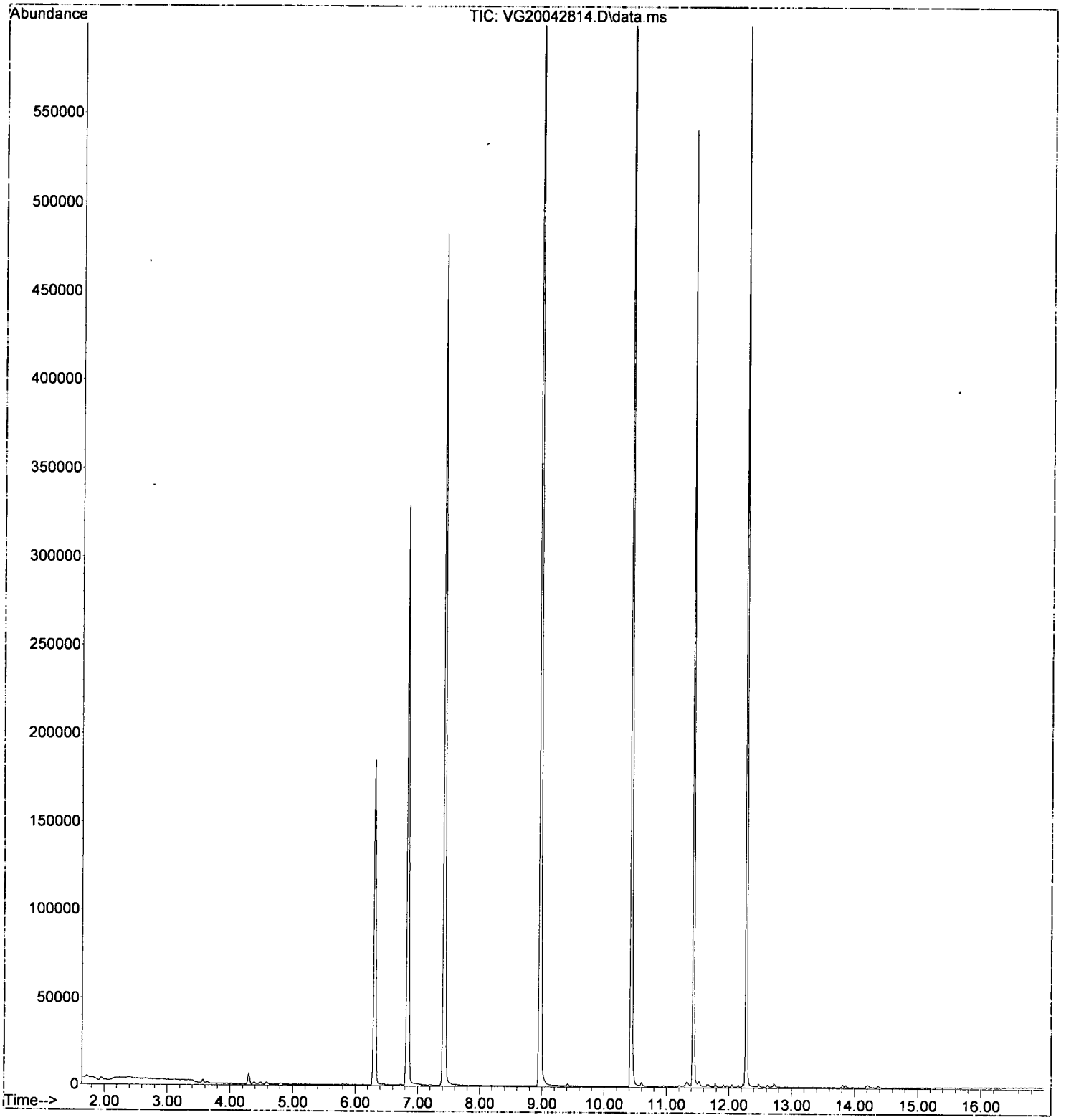
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	477	0.20 ug/L	88
51) 4-Methyl-2-Pentanone (...	9.434	43	30	0.01 ug/L #	43
52) t-1,3-Dichloropropene	9.477	75	100	0.38 ug/L #	45
53) 1,1,2-Trichloroethane	9.587	97	11	0.00 ug/L #	12
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	9.867	76	52	0.01 ug/L #	65
56) 1,2-Dibromoethane (EDB)	10.019	107	10	0.00 ug/L	96
57) 2-Hexanone	10.221	43	10	0.00 ug/L #	32
58) Chlorobenzene	10.446	112	1010	0.14 ug/L #	16
59) Ethylbenzene	10.477	91	1069	0.09 ug/L	89
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	10.599	91	1565	0.32 ug/L	97
62) o-Xylene	10.952	91	426	0.14 ug/L	80
63) Styrene	11.007	104	285	0.25 ug/L	79
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	11.202	105	644	0.25 ug/L	84
68) Bromobenzene	11.513	156	369	0.15 ug/L #	74
69) n-Propylbenzene	11.525	91	1753	0.18 ug/L	86
70) 1,1,2,2-Tetrachloroethane	11.592	83	19	0.01 ug/L #	24
71) 2-Chlorotoluene	11.653	126	211	0.10 ug/L	86
72) 1,3,5-Trimethylbenzene	11.671	105	715	0.11 ug/L	74
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	11.781	91	960	0.16 ug/L	97
76) tert-Butylbenzene	11.915	91	442	0.13 ug/L #	62
77) 1,2,4-Trimethylbenzene	11.970	105	598	0.25 ug/L	91
78) sec-Butylbenzene	12.049	105	1128	0.15 ug/L	88
79) 4-Isopropyltoluene	12.147	119	754	0.28 ug/L	97
80) 1,3-Dichlorobenzene	12.226	146	842	0.21 ug/L	95
81) 1,4-Dichlorobenzene	12.287	146	1286	0.29 ug/L #	71
82) n-Butylbenzene	12.476	91	1288	0.24 ug/L	92
83) 1,2-Dichlorobenzene	12.623	146	617	0.17 ug/L	83
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	13.811	223	212	0.46 ug/L	89
86) 1,2,4-Trichlorobenzene	13.860	180	650	0.58 ug/L	97
87) Naphthalene	14.189	128	979	1.04 ug/L	95
88) 1,2,3-Trichlorobenzene	14.378	180	472	0.25 ug/L	95

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042814.D
Acq On : 28 Apr 2020 7:52 pm
Operator : PS
Sample : 0D28059-IBL3
Misc : 1X 5mL DI
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 30 09:38:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042815.D
Acq On : 28 Apr 2020 8:19 pm
Operator : PS
Sample : 0D28059CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 29 14:27:41 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.831	99	161668	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	457980	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	233282	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.301	111	160585	53.20	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	510262	52.59	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	605813	50.36	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	176212	44.69	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	315312	104.99	ug/L		98
3) Chloromethane	1.978	50	352785	116.54	ug/L		99
4) Vinyl Chloride	2.100	62	384111	117.18	ug/L		95
5) Bromomethane	2.533	96	201722	98.00	ug/L		98
6) Chloroethane	2.704	64	97391	90.93	ug/L		96
7) Trichlorofluoromethane	2.899	101	341980	82.36	ug/L		98
8) Ethanol	3.624	45	203485	2759.27	ug/L		85
9) 1,1-Dichloroethene	3.563	61	431318	104.70	ug/L		98
10) Carbon Disulfide	3.563	76	664668	123.87	ug/L		99
11) Freon 113	3.636	101	253439	96.78	ug/L		93
12) Iodomethane	3.722	142	174901	102.30	ug/L		92
13) Acrolein	4.008	56	92724	151.23	ug/L		99
14) Methylene Chloride	4.295	84	321685	109.62	ug/L		96
15) Acetone	4.374	43	308105	203.19	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	433938	113.59	ug/L		98
17) n-Hexane	4.581	86	43493	127.94	ug/L	#	29
18) Methyl-tert-butyl-ether	4.636	73	812679	127.33	ug/L		98
19) tert-Butanol (TBA)	4.801	59	1446115	3312.51	ug/L	#	83
20) Diisopropyl ether (DIPE)	5.087	45	85631	11.70	ug/L		95
21) 1,1-Dichloroethane	5.191	63	559811	110.85	ug/L		99
22) Acrylonitrile	5.258	53	199568	129.10	ug/L		97
23) Vinyl Acetate	5.502	43	716527	135.80	ug/L		96
24) Ethyl-tert-butyl ether...	5.490	59	72497	12.91	ug/L		97
25) c-1,2-Dichloroethene	5.795	61	444480	121.87	ug/L		98
26) 2,2-Dichloropropane	5.904	77	256825	119.45	ug/L		74
27) Bromochloromethane	6.008	49	287820	114.25	ug/L		90
28) Chloroform	6.106	83	532744	106.33	ug/L		97
29) Carbon Tetrachloride	6.234	117	323005	121.15	ug/L		97
30) Tetrahydrofuran	6.276	42	179471	129.01	ug/L		99
31) 1,1,1-Trichloroethane	6.313	97	407916	109.74	ug/L		96
33) 1,1-Dichloropropene	6.453	75	407326	118.94	ug/L		98
34) 2-Butanone (MEK)	6.447	43	545218	247.63	ug/L		99
35) Benzene	6.721	78	1302053	116.40	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	62759	11.62	ug/L		80
37) 1,2-Dichloroethane (EDC)	6.953	62	415815	101.50	ug/L		99
38) iso-Butyl Alcohol	7.014	43	851953	3184.70	ug/L		99
40) Trichloroethene (TCE)	7.380	130	321823	94.39	ug/L		97
41) tert-Amyl ethyl ether ...	7.654	59	46262	13.38	ug/L		86
42) Dibromomethane	7.849	93	217366	112.83	ug/L		88
43) 1,2-Dichloropropane	7.965	63	350668	117.94	ug/L		91
44) Bromodichloromethane	8.044	83	393467	122.17	ug/L		97
46) 2-Chloroethyl Vinyl Ether	8.709	63	176791	98.50	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	477036	138.25	ug/L		94
49) Toluene	9.020	91	1349153	101.67	ug/L		99

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042815.D
Acq On : 28 Apr 2020 8:19 pm
Operator : PS
Sample : 0D28059CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 29 14:27:41 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	298184	86.70	ug/L		96
51) 4-Methyl-2-Pentanone (...	9.410	43	1051104	228.38	ug/L		97
52) t-1,3-Dichloropropene	9.446	75	438237	107.38	ug/L		98
53) 1,1,2-Trichloroethane	9.599	97	325366	106.59	ug/L		95
54) Dibromochloromethane	9.763	129	324009	97.51	ug/L		98
55) 1,3-Dichloropropane	9.855	76	543367	115.34	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.977	107	338306	109.96	ug/L		98
57) 2-Hexanone	10.184	43	791292	227.35	ug/L		99
58) Chlorobenzene	10.446	112	866291	96.98	ug/L		100
59) Ethylbenzene	10.464	91	1452579	104.54	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	285345	109.83	ug/L		96
61) m,p-Xylenes (2)	10.592	91	2216310	202.97	ug/L		100
62) o-Xylene	10.946	91	1120662	101.46	ug/L		97
63) Styrene	10.989	104	925198	102.80	ug/L		98
64) Bromoform	11.019	173	245900	94.46	ug/L		98
65) Isopropylbenzene	11.196	105	1303456	99.81	ug/L		98
68) Bromobenzene	11.507	156	369547	91.31	ug/L		86
69) n-Propylbenzene	11.519	91	1547444	108.71	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.580	83	473849	118.60	ug/L		96
71) 2-Chlorotoluene	11.647	126	327467	104.03	ug/L		97
72) 1,3,5-Trimethylbenzene	11.665	105	1065161	114.99	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	141478	100.26	ug/L	#	84
74) t-1,4-Dichloro-2-butene	11.714	88	55724	107.26	ug/L	#	85
75) 4-Chlorotoluene	11.775	91	977949	110.54	ug/L		97
76) tert-Butylbenzene	11.909	91	553693	110.72	ug/L		91
77) 1,2,4-Trimethylbenzene	11.964	105	1047842	114.39	ug/L		98
78) sec-Butylbenzene	12.043	105	1227821	119.02	ug/L		96
79) 4-Isopropyltoluene	12.147	119	998151	103.02	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	624132	101.77	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	635898	92.74	ug/L		97
82) n-Butylbenzene	12.464	91	868364	118.85	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	599072	99.29	ug/L		99
84) 1,2-Dibromo-3-Chloropr...	13.263	157	100386	106.69	ug/L		91
85) Hexachlorobutadiene	13.811	223	65865	81.77	ug/L		97
86) 1,2,4-Trichlorobenzene	13.854	180	314733	98.90	ug/L		96
87) Naphthalene	14.177	128	1104031	100.36	ug/L		100
88) 1,2,3-Trichlorobenzene	14.372	180	301675	95.45	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042815.D
Acq On : 28 Apr 2020 8:19 pm
Operator : PS
Sample : 0D28059CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 29 14:27:41 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.831	99	161668	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	457980	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	233282	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.301	111	160585	53.20	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	510262	52.59	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	605813	50.36	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	176212	44.69	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	315312	104.99	ug/L		98
3) Chloromethane	1.978	50	352785	116.54	ug/L		99
4) Vinyl Chloride	2.100	62	384111	117.18	ug/L		95
5) Bromomethane	2.533	96	201722	98.00	ug/L		98
6) Chloroethane	2.704	64	97391	90.93	ug/L		96
7) Trichlorofluoromethane	2.899	101	341980	82.36	ug/L		98
8) Ethanol	3.624	45	203485	2759.27	ug/L		85
9) 1,1-Dichloroethene	3.563	61	431318	104.70	ug/L		98
10) Carbon Disulfide	3.563	76	664668	123.87	ug/L		99
11) Freon 113	3.636	101	253439	96.78	ug/L		93
12) Iodomethane	3.722	142	174901	102.30	ug/L		92
13) Acrolein	4.008	56	92724	151.23	ug/L		99
14) Methylene Chloride	4.295	84	321685	109.62	ug/L		96
15) Acetone	4.374	43	308105	203.19	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	433938	113.59	ug/L		98
17) n-Hexane	4.581	86	43493	127.94	ug/L	#	29
18) Methyl-tert-butyl-ether	4.636	73	812679	127.33	ug/L		98
19) tert-Butanol (TBA)	4.801	59	1446115	3312.51	ug/L	#	83
20) Diisopropyl ether (DIPE)	5.087	45	85631	11.70	ug/L		95
21) 1,1-Dichloroethane	5.191	63	559811	110.85	ug/L		99
22) Acrylonitrile	5.258	53	199568	129.10	ug/L		97
23) Vinyl Acetate	5.502	43	716527	135.30	ug/L		96
24) Ethyl-tert-butyl ether...	5.490	59	72497	12.91	ug/L		97
25) c-1,2-Dichloroethene	5.795	61	444480	121.87	ug/L		98
26) 2,2-Dichloropropane	5.904	77	256825	119.45	ug/L		74
27) Bromochloromethane	6.008	49	287820	114.25	ug/L		90
28) Chloroform	6.106	83	532744	106.33	ug/L		97
29) Carbon Tetrachloride	6.234	117	323005	121.15	ug/L		97
30) Tetrahydrofuran	6.276	42	179471	129.01	ug/L		99
31) 1,1,1-Trichloroethane	6.313	97	407916	109.74	ug/L		96
33) 1,1-Dichloropropene	6.453	75	407326	118.94	ug/L		98
34) 2-Butanone (MEK)	6.447	43	545218	247.63	ug/L		99
35) Benzene	6.721	78	1302053	116.40	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	62759	11.62	ug/L		80
37) 1,2-Dichloroethane (EDC)	6.953	62	415815	101.50	ug/L		99
38) iso-Butyl Alcohol	7.014	43	851953	3184.70	ug/L		99
40) Trichloroethene (TCE)	7.380	130	321823	94.39	ug/L		97
41) tert-Amyl ethyl ether ...	7.654	59	46262	13.38	ug/L		86
42) Dibromomethane	7.849	93	217366	112.83	ug/L		88
43) 1,2-Dichloropropane	7.965	63	350668	117.94	ug/L		91
44) Bromodichloromethane	8.044	83	393467	122.17	ug/L		97
46) 2-Chloroethyl Vinyl Ether	8.709	63	176791	98.50	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	477036	138.25	ug/L		94
49) Toluene	9.020	91	1349153	101.67	ug/L		99

4/29/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042815.D
Acq On : 28 Apr 2020 8:19 pm
Operator : PS
Sample : 0D28059CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 29 14:27:41 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

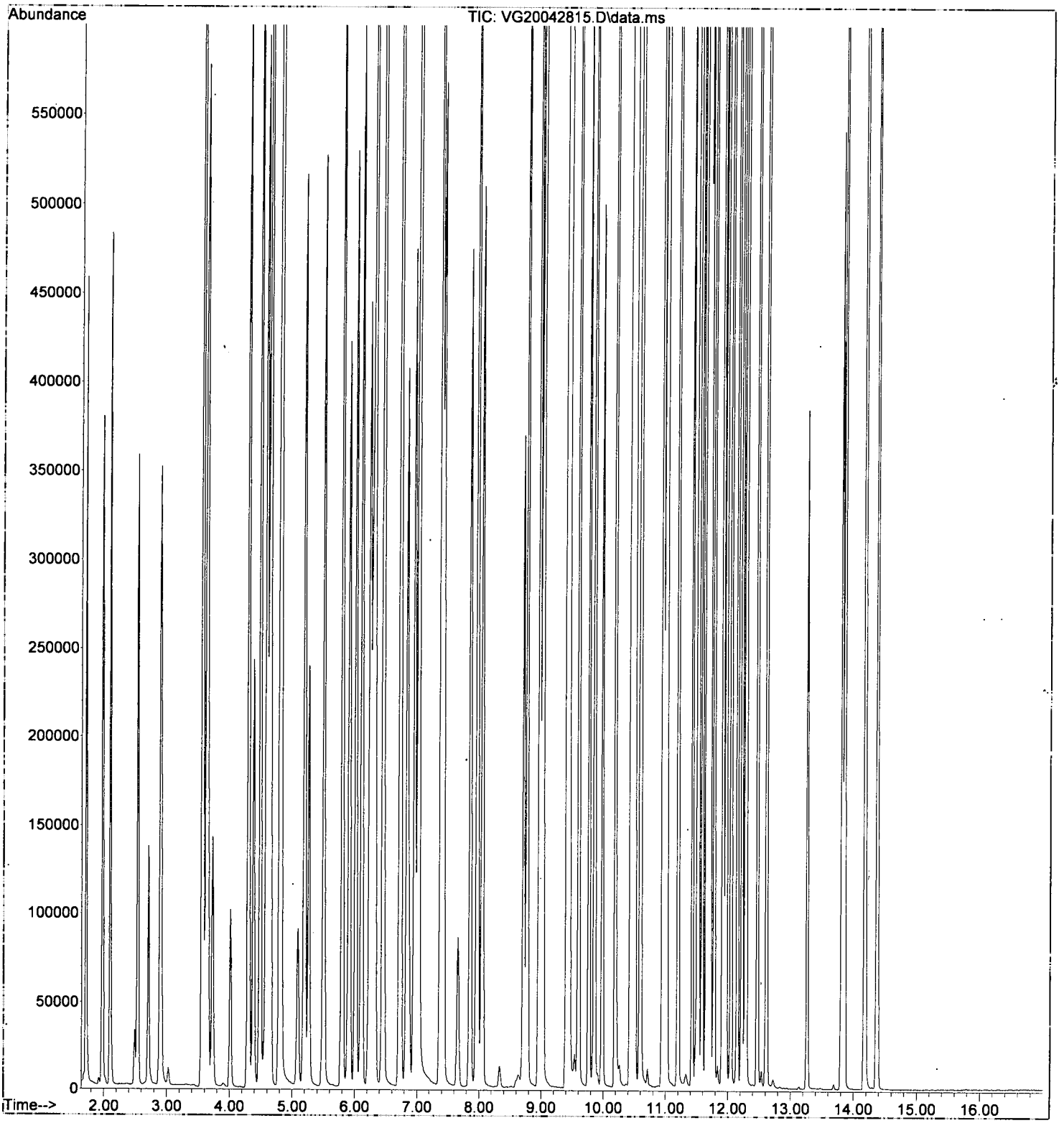
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	298184	86.70	ug/L		96
51) 4-Methyl-2-Pentanone (...	9.410	43	1051104	228.38	ug/L		97
52) t-1,3-Dichloropropene	9.446	75	438237	107.38	ug/L		98
53) 1,1,2-Trichloroethane	9.599	97	325366	106.59	ug/L		95
54) Dibromochloromethane	9.763	129	324009	97.51	ug/L		98
55) 1,3-Dichloropropane	9.855	76	543367	115.34	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.977	107	338306	109.96	ug/L		98
57) 2-Hexanone	10.184	43	791292	227.35	ug/L		99
58) Chlorobenzene	10.446	112	866291	96.98	ug/L		100
59) Ethylbenzene	10.464	91	1452579	104.54	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	285345	109.83	ug/L		96
61) m,p-Xylenes (2)	10.592	91	2216310	202.97	ug/L		100
62) o-Xylene	10.946	91	1120662	101.46	ug/L		97
63) Styrene	10.989	104	925198	102.80	ug/L		98
64) Bromoform	11.019	173	245900	94.46	ug/L		98
65) Isopropylbenzene	11.196	105	1303456	99.81	ug/L		98
68) Bromobenzene	11.507	156	369547	91.81	ug/L		86
69) n-Propylbenzene	11.519	91	1547444	108.71	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.580	83	473849	118.60	ug/L		96
71) 2-Chlorotoluene	11.647	126	327467	104.03	ug/L		97
72) 1,3,5-Trimethylbenzene	11.665	105	1065161	114.99	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	141478	100.26	ug/L	#	84
74) t-1,4-Dichloro-2-butene	11.714	88	55724	107.26	ug/L	#	85
75) 4-Chlorotoluene	11.775	91	977949	110.64	ug/L		97
76) tert-Butylbenzene	11.909	91	553693	110.72	ug/L		91
77) 1,2,4-Trimethylbenzene	11.964	105	1047842	114.39	ug/L		98
78) sec-Butylbenzene	12.043	105	1227821	119.02	ug/L		96
79) 4-Isopropyltoluene	12.147	119	998151	103.02	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	624132	101.77	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	635898	92.74	ug/L		97
82) n-Butylbenzene	12.464	91	868364	118.85	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	599072	99.29	ug/L		99
84) 1,2-Dibromo-3-Chloropr...	13.263	157	100386	106.69	ug/L		91
85) Hexachlorobutadiene	13.811	223	65865	81.77	ug/L		97
86) 1,2,4-Trichlorobenzene	13.854	180	314733	98.90	ug/L		96
87) Naphthalene	14.177	128	1104031	100.36	ug/L		100
88) 1,2,3-Trichlorobenzene	14.372	180	301675	95.45	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042815.D
Acq On : 28 Apr 2020 8:19 pm
Operator : PS
Sample : 0D28059CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 29 14:27:41 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042816.D
Acq On : 28 Apr 2020 8:47 pm
Operator : PS
Sample : 0D28059-IBL4
Misc : 1X 5mL DI
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 30 09:38:24 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	6.837	99	149264	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	412020	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	177396	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	6.307	111	146258	49.28 ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	485846	50.59 ug/L	0.00
48) Toluene-d8 (S)	8.965	98	571012	50.76 ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.428	174	146610	51.52 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.716	85	1040	0.34 ug/L	95
3) Chloromethane	1.978	50	677	0.18 ug/L	88
4) Vinyl Chloride	2.100	62	598	0.16 ug/L	56
5) Bromomethane	2.533	96	325	0.15 ug/L	89
6) Chloroethane	2.704	64	185	Below Cal #	29
7) Trichlorofluoromethane	2.911	101	737	0.20 ug/L	87
8) Ethanol	3.618	45	495	6.40 ug/L	65
9) 1,1-Dichloroethene	3.569	61	817	0.20 ug/L	89
10) Carbon Disulfide	3.569	76	3936	0.76 ug/L	96
11) Freon 113	3.636	101	714	0.27 ug/L	78
12) Iodomethane	3.734	142	109	4.90 ug/L #	42
13) Acrolein	4.045	56	10	0.01 ug/L #	1
14) Methylene Chloride	4.295	84	3962	1.17 ug/L	86
15) Acetone	4.380	43	1729	1.13 ug/L	99
16) t-1,2-Dichloroethene	4.490	61	1336	0.33 ug/L	93
17) n-Hexane	4.588	86	80	0.21 ug/L #	54
18) Methyl-tert-butyl-ether	4.630	73	133	0.02 ug/L	57
19) tert-Butanol (TBA)	4.807	59	499	1.10 ug/L #	43
20) Diisopropyl ether (DIPE)	5.069	45	12	0.00 ug/L #	33
21) 1,1-Dichloroethane	5.191	63	311	0.06 ug/L	77
22) Acrylonitrile	5.307	53	35	0.02 ug/L #	14
23) Vinyl Acetate	5.520	43	10	1.13 ug/L #	1
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	5.807	61	564	0.14 ug/L	96
26) 2,2-Dichloropropane	5.904	77	21	0.01 ug/L #	1
27) Bromochloromethane	6.014	49	244	0.08 ug/L	78
28) Chloroform	6.106	83	287	0.06 ug/L	81
29) Carbon Tetrachloride	6.246	117	93	0.04 ug/L #	13
30) Tetrahydrofuran	6.288	42	110	0.08 ug/L #	61
31) 1,1,1-Trichloroethane	6.319	97	69	0.02 ug/L #	58
33) 1,1-Dichloropropene	6.459	75	789	0.23 ug/L	91
34) 2-Butanone (MEK)	6.453	43	10	0.00 ug/L	52
35) Benzene	6.740	78	1133	0.10 ug/L	94
36) tert-Amyl methyl ether...	6.825	73	237	0.04 ug/L #	1
37) 1,2-Dichloroethane (EDC)	6.959	62	281	0.07 ug/L #	48
38) iso-Butyl Alcohol	7.026	43	117	0.41 ug/L #	52
40) Trichloroethene (TCE)	7.386	130	712	0.22 ug/L	89
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	7.861	93	219	0.11 ug/L #	61
43) 1,2-Dichloropropane	7.965	63	28	0.01 ug/L #	40
44) Bromodichloromethane	8.062	83	90	0.03 ug/L #	63
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	8.788	75	263	0.65 ug/L	87
49) Toluene	9.020	91	2121	0.16 ug/L	99

NR 4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042816.D
Acq On : 28 Apr 2020 8:47 pm
Operator : PS
Sample : 0D28059-IBL4
Misc : 1X 5mL DI
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 30 09:38:24 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

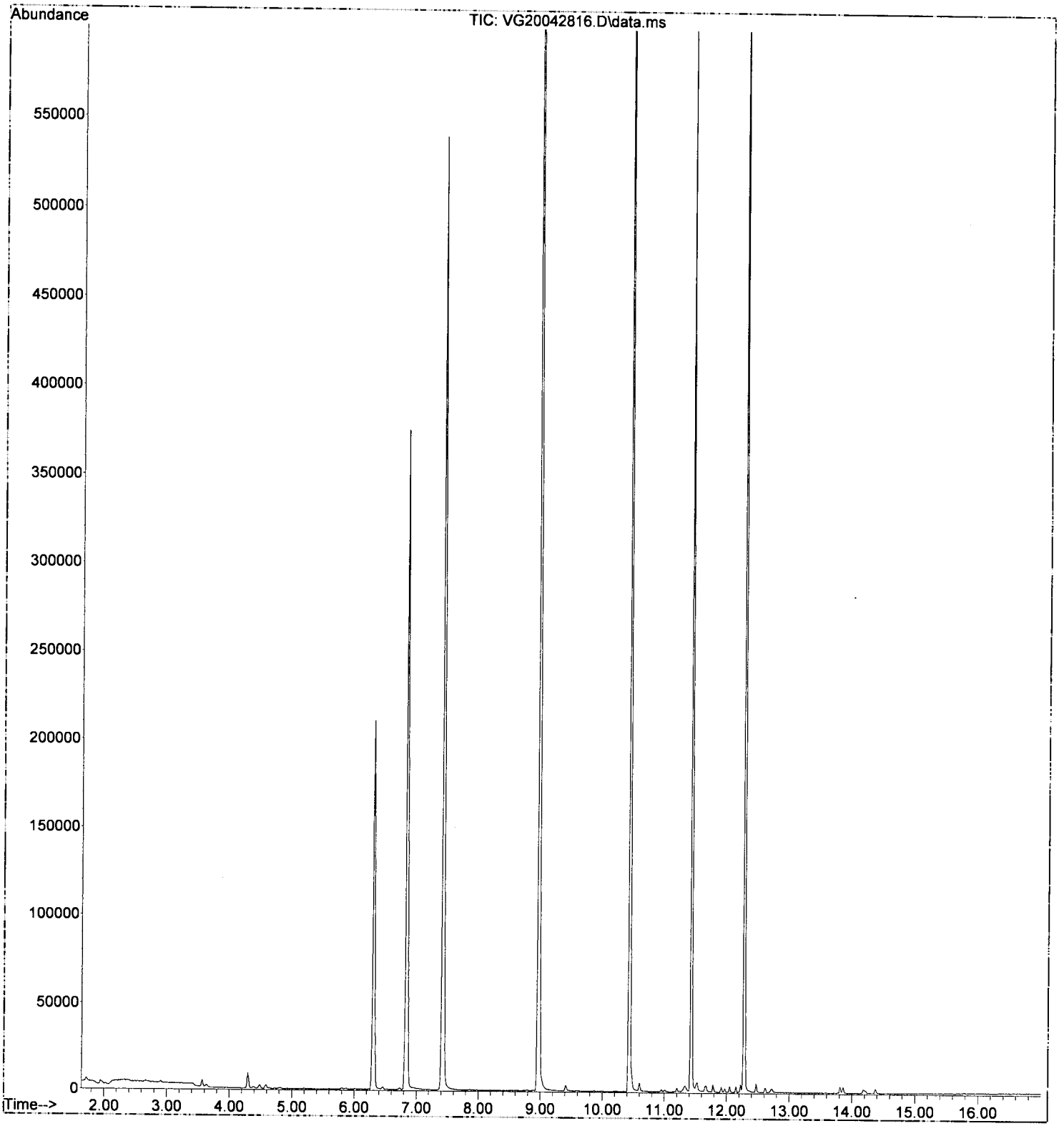
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.404	166	1002	0.37 ug/L	99
51) 4-Methyl-2-Pentanone (...	9.422	43	294	0.07 ug/L #	43
52) t-1,3-Dichloropropene	9.465	75	314	0.44 ug/L	67
53) 1,1,2-Trichloroethane	9.611	97	139	0.05 ug/L #	12
54) Dibromochloromethane	9.763	129	10	0.16 ug/L #	17
55) 1,3-Dichloropropane	9.867	76	188	0.04 ug/L	86
56) 1,2-Dibromoethane (EDB)	10.007	107	98	0.04 ug/L	97
57) 2-Hexanone	10.214	43	137	0.04 ug/L #	32
58) Chlorobenzene	10.446	112	1960	0.24 ug/L #	57
59) Ethylbenzene	10.471	91	2281	0.18 ug/L	90
60) 1,1,1,2-Tetrachloroethane	10.501	131	48	0.02 ug/L #	1
61) m,p-Xylenes (2)	10.599	91	2991	0.44 ug/L	94
62) o-Xylene	10.952	91	1007	0.19 ug/L	89
63) Styrene	11.007	104	791	0.31 ug/L	90
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	11.202	105	1446	0.31 ug/L	96
68) Bromobenzene	11.507	156	665	0.23 ug/L	87
69) n-Propylbenzene	11.525	91	3449	0.30 ug/L	92
70) 1,1,2,2-Tetrachloroethane	11.586	83	146	0.04 ug/L	80
71) 2-Chlorotoluene	11.647	126	502	0.21 ug/L	88
72) 1,3,5-Trimethylbenzene	11.672	105	1509	0.20 ug/L	85
73) 1,2,3-Trichloropropane	11.696	110	37	0.03 ug/L	93
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	11.775	91	2191	0.31 ug/L	83
76) tert-Butylbenzene	11.909	91	887	0.23 ug/L #	74
77) 1,2,4-Trimethylbenzene	11.970	105	1342	0.34 ug/L	82
78) sec-Butylbenzene	12.049	105	2217	0.25 ug/L	93
79) 4-Isopropyltoluene	12.147	119	1761	0.40 ug/L	98
80) 1,3-Dichlorobenzene	12.220	146	1807	0.39 ug/L	93
81) 1,4-Dichlorobenzene	12.287	146	2354	0.45 ug/L #	74
82) n-Butylbenzene	12.470	91	3006	0.48 ug/L	88
83) 1,2-Dichlorobenzene	12.616	146	1245	0.28 ug/L	86
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	13.811	223	500	0.93 ug/L	95
86) 1,2,4-Trichlorobenzene	13.854	180	1424	0.86 ug/L	88
87) Naphthalene	14.183	128	2157	1.16 ug/L	97
88) 1,2,3-Trichlorobenzene	14.378	180	1097	0.50 ug/L	93

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042816.D
Acq On : 28 Apr 2020 8:47 pm
Operator : PS
Sample : 0D28059-IBL4
Misc : 1X 5mL DI
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 30 09:38:24 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042817.D
Acq On : 28 Apr 2020 9:14 pm
Operator : PS
Sample : 0D28059-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 29 15:14:22 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	174876	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	511754	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	246154	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.306	111	179176	54.88	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	566135	53.94	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	661083	49.18	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.427	174	191987	46.14	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	721756	222.18	ug/L		98
3) Chloromethane	1.978	50	787402	240.46	ug/L		99
4) Vinyl Chloride	2.094	62	883409	249.14	ug/L		95
5) Bromomethane	2.533	96	441017	198.07	ug/L		98
6) Chloroethane	2.704	64	193450	198.53	ug/L		97
7) Trichlorofluoromethane	2.886	101	760605	169.35	ug/L		99
8) Ethanol	0.000		0	N.D.	d		
9) 1,1-Dichloroethene	3.557	61	1013280	227.40	ug/L		98
10) Carbon Disulfide	3.557	76	1647933	283.92	ug/L		99
11) Freon 113	3.630	101	619841	218.81	ug/L		94
12) Iodomethane	3.722	142	484444	203.03	ug/L		93
13) Acrolein	4.008	56	200485	302.29	ug/L		97
14) Methylene Chloride	4.295	84	711544	224.17	ug/L		97
15) Acetone	4.380	43	670089	408.53	ug/L		96
16) t-1,2-Dichloroethene	4.478	61	1007829	243.89	ug/L		98
17) n-Hexane	4.581	86	105147	285.93	ug/L	#	37
18) Methyl-tert-butyl-ether	4.636	73	1858846	269.24	ug/L		99
19) tert-Butanol (TBA)	0.000		0	N.D.	d		
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	d		
21) 1,1-Dichloroethane	5.191	63	1278947	234.12	ug/L		99
22) Acrylonitrile	5.258	53	430086	257.20	ug/L		97
23) Vinyl Acetate	5.502	43	1558199	236.98	ug/L		96
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	d		
25) c-1,2-Dichloroethene	5.794	61	1012684	256.69	ug/L		99
26) 2,2-Dichloropropane	5.904	77	622935	267.84	ug/L		81
27) Bromochloromethane	6.008	49	622772	228.54	ug/L		92
28) Chloroform	6.105	83	1216725	224.51	ug/L		96
29) Carbon Tetrachloride	6.233	117	809357	280.65	ug/L		96
30) Tetrahydrofuran	6.276	42	398049	264.51	ug/L		99
31) 1,1,1-Trichloroethane	6.313	97	987730	245.65	ug/L		96
33) 1,1-Dichloropropene	6.453	75	975429	263.30	ug/L		99
34) 2-Butanone (MEK)	6.447	43	1181311	496.00	ug/L		98
35) Benzene	6.721	78	3008884	248.67	ug/L		98
36) tert-Amyl methyl ether...	0.000		0	N.D.	d		
37) 1,2-Dichloroethane (EDC)	6.953	62	923686	208.44	ug/L		99
38) iso-Butyl Alcohol	7.020	43	1783101	6162.02	ug/L		97
40) Trichloroethene (TCE)	7.379	130	762043	206.62	ug/L		98
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	d		
42) Dibromomethane	7.849	93	492139	236.16	ug/L		89
43) 1,2-Dichloropropane	7.965	63	803265	249.75	ug/L		90
44) Bromodichloromethane	8.044	83	918596	263.68	ug/L		98
46) 2-Chloroethyl Vinyl Ether	8.708	63	431655	215.22	ug/L	#	1
47) c-1,3-Dichloropropene	8.769	75	1126694	292.21	ug/L		93
49) Toluene	9.019	91	3114208	210.01	ug/L		99

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042817.D
Acq On : 28 Apr 2020 9:14 pm
Operator : PS
Sample : 0D28059-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 29 15:14:22 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	743359	193.43	ug/L		97
51) 4-Methyl-2-Pentanone (...	9.410	43	2206651	429.08	ug/L		94
52) t-1,3-Dichloropropene	9.446	75	1034541	204.26	ug/L		99
53) 1,1,2-Trichloroethane	9.599	97	743055	217.85	ug/L		95
54) Dibromochloromethane	9.763	129	775840	190.19	ug/L		99
55) 1,3-Dichloropropane	9.855	76	1220547	231.85	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.977	107	782130	227.50	ug/L		99
57) 2-Hexanone	10.184	43	1645799	423.17	ug/L		98
58) Chlorobenzene	10.446	112	2006540	201.02	ug/L		99
59) Ethylbenzene	10.464	91	3390116	218.34	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	678121	233.59	ug/L		95
61) m,p-Xylenes (2)	10.592	91	5118451	402.13	ug/L		99
62) o-Xylene	10.946	91	2610008	199.39	ug/L		98
63) Styrene	10.989	104	2122456	200.58	ug/L		98
64) Bromoform	11.019	173	580388	177.16	ug/L		97
65) Isopropylbenzene	11.196	105	3059960	197.99	ug/L		99
68) Bromobenzene	11.507	156	850318	199.11	ug/L		89
69) n-Propylbenzene	11.519	91	3545698	236.07	ug/L		97
70) 1,1,2,2-Tetrachloroethane	11.580	83	994174	235.82	ug/L		97
71) 2-Chlorotoluene	11.647	126	757592	228.09	ug/L		99
72) 1,3,5-Trimethylbenzene	11.671	105	2427844	248.40	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	296100	198.86	ug/L		85
74) t-1,4-Dichloro-2-butene	11.714	88	122105	203.82	ug/L	#	84
75) 4-Chlorotoluene	11.775	91	2189587	234.76	ug/L		98
76) tert-Butylbenzene	11.909	91	1274708	241.57	ug/L		93
77) 1,2,4-Trimethylbenzene	11.964	105	2375385	245.75	ug/L		98
78) sec-Butylbenzene	12.043	105	2807398	257.91	ug/L		97
79) 4-Isopropyltoluene	12.147	119	2273833	208.37	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	1380557	213.34	ug/L		99
81) 1,4-Dichlorobenzene	12.287	146	1398040	193.23	ug/L		98
82) n-Butylbenzene	12.464	91	1938953	251.51	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	1294660	203.36	ug/L		99
84) 1,2-Dibromo-3-Chloropr...	13.262	157	220807	222.40	ug/L		92
85) Hexachlorobutadiene	13.811	223	152484	179.41	ug/L		96
86) 1,2,4-Trichlorobenzene	13.854	180	708955	211.13	ug/L		96
87) Naphthalene	14.177	128	2456596	201.87	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	678103	203.33	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042817.D
Acq On : 28 Apr 2020 9:14 pm
Operator : PS
Sample : 0D28059-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 29 14:27:44 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	174876	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	511754	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	246154	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.306	111	179176	54.88	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	566135	53.94	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	661083	49.18	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.427	174	191987	46.14	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	721756	222.18	ug/L		98
3) Chloromethane	1.978	50	787402	240.46	ug/L		99
4) Vinyl Chloride	2.094	62	883409	249.14	ug/L		95
5) Bromomethane	2.533	96	441017	198.07	ug/L		98
6) Chloroethane	2.704	64	193450	198.53	ug/L		97
7) Trichlorofluoromethane	2.886	101	760605	169.35	ug/L		99
8) Ethanol	3.642	45	1512	18.95	ug/L		83
9) 1,1-Dichloroethene	3.557	61	1013280	227.40	ug/L		98
10) Carbon Disulfide	3.557	76	1647933	283.92	ug/L		99
11) Freon 113	3.630	101	619841	218.81	ug/L		94
12) Iodomethane	3.722	142	484444	203.03	ug/L		93
13) Acrolein	4.008	56	200485	302.29	ug/L		97
14) Methylene Chloride	4.295	84	711544	224.17	ug/L		97
15) Acetone	4.380	43	670089	408.53	ug/L		96
16) t-1,2-Dichloroethene	4.478	61	1007829	243.89	ug/L		98
17) n-Hexane	4.581	86	105147	285.93	ug/L	#	37
18) Methyl-tert-butyl-ether	4.636	73	1858846	269.24	ug/L		99
19) tert-Butanol (TBA)	4.813	59	913	1.93	ug/L	#	1
20) Diisopropyl ether (DIPE)	5.087	45	80	0.01	ug/L	#	1
21) 1,1-Dichloroethane	5.191	63	1278947	234.12	ug/L		99
22) Acrylonitrile	5.258	53	430086	257.20	ug/L		97
23) Vinyl Acetate	5.502	43	1558199	236.98	ug/L		96
24) Ethyl-tert-butyl ether...	5.502	59	226	0.04	ug/L	#	1
25) c-1,2-Dichloroethene	5.794	61	1012684	256.69	ug/L		99
26) 2,2-Dichloropropane	5.904	77	622935	267.84	ug/L		81
27) Bromochloromethane	6.008	49	622772	228.54	ug/L		92
28) Chloroform	6.105	83	1216725	224.51	ug/L		96
29) Carbon Tetrachloride	6.233	117	809357	280.65	ug/L		96
30) Tetrahydrofuran	6.276	42	398049	264.51	ug/L		99
31) 1,1,1-Trichloroethane	6.313	97	987730	245.65	ug/L		96
33) 1,1-Dichloropropene	6.453	75	975429	263.30	ug/L		99
34) 2-Butanone (MEK)	6.447	43	1181311	496.00	ug/L		98
35) Benzene	6.721	78	3008884	248.67	ug/L		98
36) tert-Amyl methyl ether...	6.831	73	561	0.10	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.953	62	923686	208.44	ug/L		99
38) iso-Butyl Alcohol	7.020	43	1783101	6162.02	ug/L		97
40) Trichloroethene (TCE)	7.379	130	762043	206.62	ug/L		98
41) tert-Amyl ethyl ether ...	7.654	59	263	0.07	ug/L	#	21
42) Dibromomethane	7.849	93	492139	236.16	ug/L		89
43) 1,2-Dichloropropane	7.965	63	803265	249.75	ug/L		90
44) Bromodichloromethane	8.044	83	918596	263.68	ug/L		98
46) 2-Chloroethyl Vinyl Ether	8.708	63	431655	215.22	ug/L	#	1
47) c-1,3-Dichloropropene	8.769	75	1126694	292.21	ug/L		93
49) Toluene	9.019	91	3114208	210.01	ug/L		99

4/29/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042817.D
Acq On : 28 Apr 2020 9:14 pm
Operator : PS
Sample : 0D28059-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 29 14:27:44 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

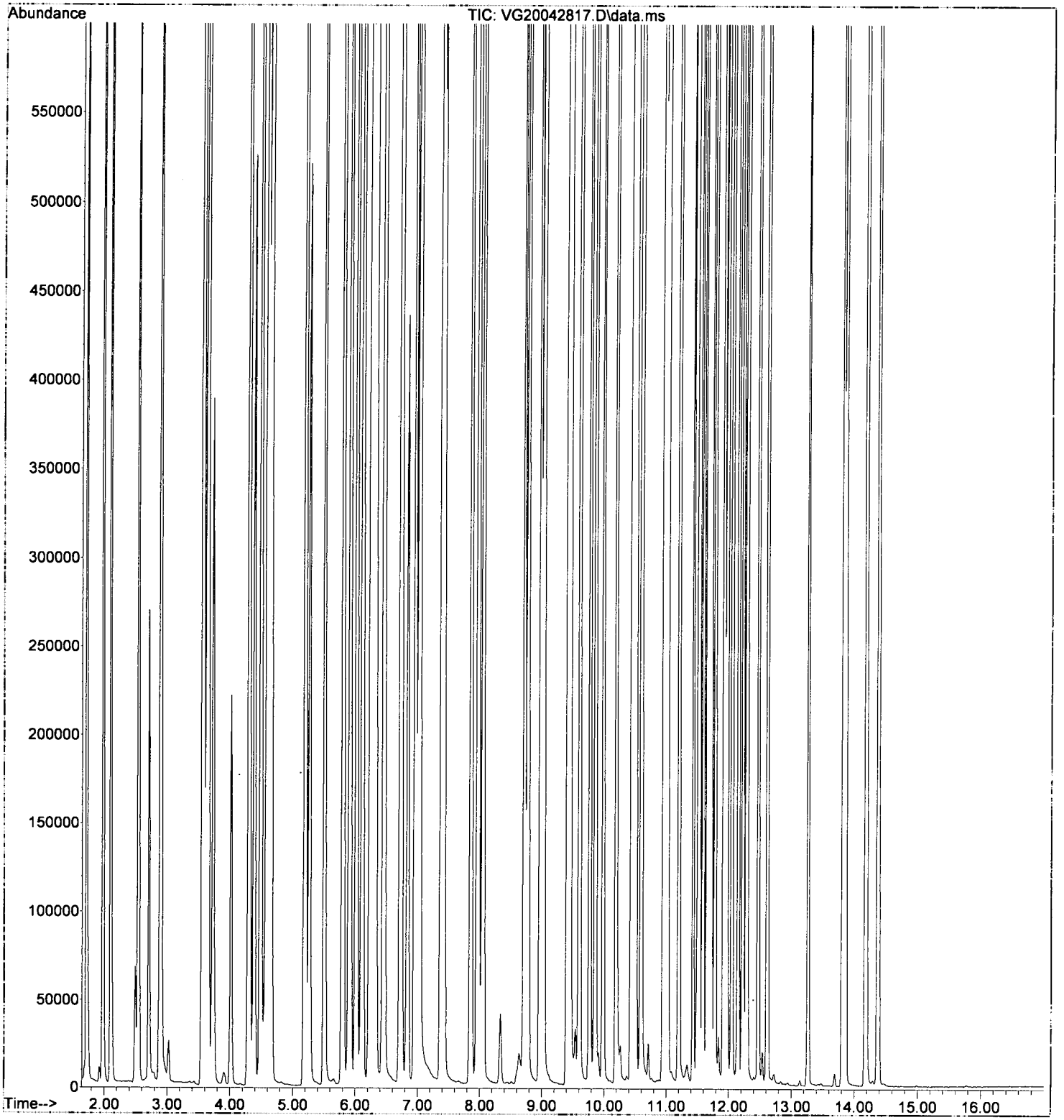
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	743359	193.43	ug/L		97
51) 4-Methyl-2-Pentanone (...	9.410	43	2206651	429.08	ug/L		94
52) t-1,3-Dichloropropene	9.446	75	1034541	204.26	ug/L		99
53) 1,1,2-Trichloroethane	9.599	97	743055	217.85	ug/L		95
54) Dibromochloromethane	9.763	129	775840	190.19	ug/L		99
55) 1,3-Dichloropropane	9.855	76	1220547	231.85	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.977	107	782130	227.50	ug/L		99
57) 2-Hexanone	10.184	43	1645799	423.17	ug/L		98
58) Chlorobenzene	10.446	112	2006540	201.02	ug/L		99
59) Ethylbenzene	10.464	91	3390116	218.34	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	678121	233.59	ug/L		95
61) m,p-Xylenes (2)	10.592	91	5118451	402.13	ug/L		99
62) o-Xylene	10.946	91	2610008	199.89	ug/L		98
63) Styrene	10.989	104	2122456	200.58	ug/L		98
64) Bromoform	11.019	173	580388	177.16	ug/L		97
65) Isopropylbenzene	11.196	105	3059960	197.99	ug/L		99
68) Bromobenzene	11.507	156	850318	199.11	ug/L		89
69) n-Propylbenzene	11.519	91	3545698	236.07	ug/L		97
70) 1,1,2,2-Tetrachloroethane	11.580	83	994174	235.82	ug/L		97
71) 2-Chlorotoluene	11.647	126	757592	228.09	ug/L		99
72) 1,3,5-Trimethylbenzene	11.671	105	2427844	248.40	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	296100	198.86	ug/L		85
74) t-1,4-Dichloro-2-butene	11.714	88	122105	203.82	ug/L	#	84
75) 4-Chlorotoluene	11.775	91	2189587	234.76	ug/L		98
76) tert-Butylbenzene	11.909	91	1274708	241.57	ug/L		93
77) 1,2,4-Trimethylbenzene	11.964	105	2375385	245.75	ug/L		98
78) sec-Butylbenzene	12.043	105	2807398	257.91	ug/L		97
79) 4-Isopropyltoluene	12.147	119	2273833	208.37	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	1380557	213.34	ug/L		99
81) 1,4-Dichlorobenzene	12.287	146	1398040	193.23	ug/L		98
82) n-Butylbenzene	12.464	91	1938953	251.51	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	1294660	203.36	ug/L		99
84) 1,2-Dibromo-3-Chloropr...	13.262	157	220807	222.40	ug/L		92
85) Hexachlorobutadiene	13.811	223	152484	179.41	ug/L		96
86) 1,2,4-Trichlorobenzene	13.854	180	708955	211.13	ug/L		96
87) Naphthalene	14.177	128	2456596	201.87	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	678103	203.83	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042817.D
Acq On : 28 Apr 2020 9:14 pm
Operator : PS
Sample : 0D28059-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 29 15:14:22 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042818.D
Acq On : 28 Apr 2020 9:41 pm
Operator : PS
Sample : 0D28059-IBL5
Misc : 1X 5mL DI
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 30 09:38:27 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	6.837	99	147546	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	394020	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	170285	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	6.307	111	144732	49.34 ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	474103	49.94 ug/L	0.00
48) Toluene-d8 (S)	8.965	98	553722	51.47 ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.428	174	140321	51.36 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.716	85	2060	0.67 ug/L	98
3) Chloromethane	1.978	50	950	0.26 ug/L	93
4) Vinyl Chloride	2.100	62	1131	0.31 ug/L	88
5) Bromomethane	2.533	96	474	0.22 ug/L	81
6) Chloroethane	2.716	64	387	Below Cal #	60
7) Trichlorofluoromethane	2.911	101	1359	0.37 ug/L	91
8) Ethanol	3.612	45	347	4.54 ug/L	79
9) 1,1-Dichloroethene	3.563	61	1592	0.39 ug/L	99
10) Carbon Disulfide	3.569	76	8526	1.66 ug/L	98
11) Freon 113	3.637	101	1688	0.65 ug/L	94
12) Iodomethane	3.734	142	222	4.99 ug/L	88
13) Acrolein	4.027	56	159	0.22 ug/L #	42
14) Methylene Chloride	4.295	84	3817	1.14 ug/L	93
15) Acetone	4.380	43	2125	1.40 ug/L	86
16) t-1,2-Dichloroethene	4.490	61	2556	0.64 ug/L	92
17) n-Hexane	4.588	86	212	0.57 ug/L #	1
18) Methyl-tert-butyl-ether	4.642	73	234	0.04 ug/L	90
19) tert-Butanol (TBA)	4.807	59	166	0.37 ug/L #	1
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	5.197	63	632	0.12 ug/L	82
22) Acrylonitrile	5.283	53	213	0.13 ug/L	66
23) Vinyl Acetate	5.569	43	19	1.13 ug/L	74
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	5.795	61	1252	0.32 ug/L	91
26) 2,2-Dichloropropane	5.910	77	36	0.02 ug/L #	1
27) Bromochloromethane	6.014	49	508	0.18 ug/L	89
28) Chloroform	6.106	83	584	0.11 ug/L	88
29) Carbon Tetrachloride	6.234	117	303	0.12 ug/L	84
30) Tetrahydrofuran	6.288	42	247	0.17 ug/L #	41
31) 1,1,1-Trichloroethane	6.313	97	364	0.10 ug/L	89
33) 1,1-Dichloropropene	6.453	75	1759	0.51 ug/L	91
34) 2-Butanone (MEK)	6.441	43	10	0.00 ug/L	52
35) Benzene	6.727	78	1974	0.17 ug/L	96
36) tert-Amyl methyl ether...	6.831	73	265	0.05 ug/L #	1
37) 1,2-Dichloroethane (EDC)	6.959	62	482	0.12 ug/L	88
38) iso-Butyl Alcohol	7.057	43	459	1.64 ug/L	86
40) Trichloroethene (TCE)	7.392	130	1344	0.42 ug/L	96
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	7.867	93	399	0.20 ug/L #	68
43) 1,2-Dichloropropane...	7.971	63	260	0.08 ug/L	80
44) Bromodichloromethane	8.050	83	276	0.09 ug/L	84
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	8.788	75	478	0.71 ug/L #	67
49) Toluene	9.020	91	3682	0.30 ug/L	95

NK 4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042818.D
Acq On : 28 Apr 2020 9:41 pm
Operator : PS
Sample : 0D28059-IBL5
Misc : 1X 5mL DI
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 30 09:38:27 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

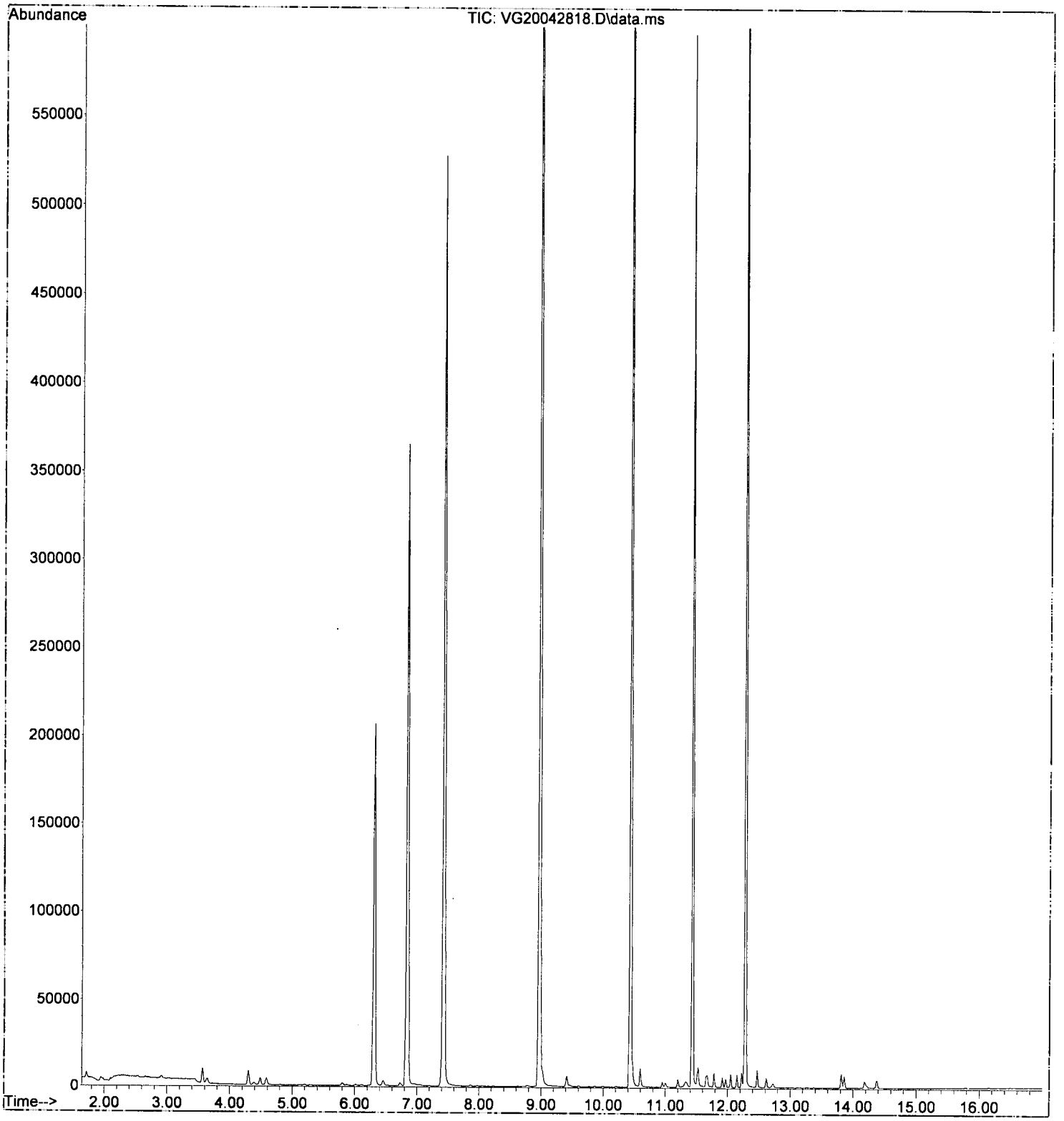
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	1999	0.78	ug/L		97
51) 4-Methyl-2-Pentanone (...	9.422	43	695	0.17	ug/L		80
52) t-1,3-Dichloropropene	9.459	75	551	0.51	ug/L		86
53) 1,1,2-Trichloroethane	9.605	97	185	0.07	ug/L	#	73
54) Dibromochloromethane	9.776	129	153	0.22	ug/L		76
55) 1,3-Dichloropropane	9.861	76	352	0.08	ug/L		90
56) 1,2-Dibromoethane (EDB)	9.989	107	373	0.14	ug/L		75
57) 2-Hexanone	10.196	43	470	0.16	ug/L		69
58) Chlorobenzene	10.446	112	3577	0.46	ug/L		79
59) Ethylbenzene	10.471	91	4277	0.35	ug/L		100
60) 1,1,1,2-Tetrachloroethane	10.501	131	158	0.07	ug/L	#	1
61) m,p-Xylenes (2)	10.599	91	6431	0.82	ug/L		91
62) o-Xylene	10.952	91	1967	0.30	ug/L		95
63) Styrene	11.001	104	1607	0.42	ug/L		96
64) Bromoform	11.019	173	76	0.25	ug/L		85
65) Isopropylbenzene	11.202	105	2886	0.45	ug/L		94
68) Bromobenzene	11.513	156	1197	0.43	ug/L		85
69) n-Propylbenzene	11.525	91	6605	0.60	ug/L		92
70) 1,1,2,2-Tetrachloroethane	11.586	83	261	0.08	ug/L		81
71) 2-Chlorotoluene	11.653	126	1078	0.47	ug/L		85
72) 1,3,5-Trimethylbenzene	11.672	105	2977	0.41	ug/L		96
73) 1,2,3-Trichloropropane	11.684	110	76	0.07	ug/L		80
74) t-1,4-Dichloro-2-butene	11.726	88	10	0.03	ug/L	#	2
75) 4-Chlorotoluene	11.781	91	4042	0.59	ug/L		92
76) tert-Butylbenzene	11.909	91	1642	0.44	ug/L		89
77) 1,2,4-Trimethylbenzene	11.970	105	2842	0.56	ug/L		95
78) sec-Butylbenzene	12.050	105	4553	0.54	ug/L		90
79) 4-Isopropyltoluene	12.147	119	3579	0.68	ug/L		93
80) 1,3-Dichlorobenzene	12.220	146	3207	0.72	ug/L		94
81) 1,4-Dichlorobenzene	12.287	146	4209	0.84	ug/L		85
82) n-Butylbenzene	12.470	91	5394	0.91	ug/L		86
83) 1,2-Dichlorobenzene	12.617	146	2203	0.52	ug/L		91
84) 1,2-Dibromo-3-Chloropr...	13.275	157	37	0.05	ug/L	#	30
85) Hexachlorobutadiene	13.811	223	997	1.93	ug/L		90
86) 1,2,4-Trichlorobenzene	13.860	180	2600	1.41	ug/L		97
87) Naphthalene	14.183	128	3853	1.40	ug/L		91
88) 1,2,3-Trichlorobenzene	14.372	180	1867	0.88	ug/L		92

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042818.D
Acq On : 28 Apr 2020 9:41 pm
Operator : PS
Sample : 0D28059-IBL5
Misc : 1X 5mL DI
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 30 09:38:27 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042819.D
Acq On : 28 Apr 2020 10:08 pm
Operator : PS
Sample : 0D28059-IBL6
Misc : 1X 5mL DI
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 30 09:38:30 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	153210	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	424904	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	182088	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	151643	49.78 ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	502866	51.01 ug/L		0.00
48) Toluene-d8 (S)	8.965	98	589418	50.81 ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	151014	51.70 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.716	85	870	0.27 ug/L		96
3) Chloromethane	1.978	50	432	0.11 ug/L		92
4) Vinyl Chloride	2.100	62	389	0.10 ug/L		59
5) Bromomethane	2.533	96	260	0.12 ug/L		88
6) Chloroethane	2.728	64	249	Below Cal	#	47
7) Trichlorofluoromethane	2.917	101	635	0.17 ug/L		95
8) Ethanol	3.606	45	335	4.22 ug/L	#	29
9) 1,1-Dichloroethene	3.569	61	540	0.13 ug/L		92
10) Carbon Disulfide	3.569	76	3405	0.64 ug/L		96
11) Freon 113	3.649	101	758	0.28 ug/L		78
12) Iodomethane	3.734	142	94	4.89 ug/L	#	47
13) Acrolein	0.000		0	N.D.		
14) Methylene Chloride	4.301	84	4027	1.15 ug/L		98
15) Acetone	4.386	43	2049	1.30 ug/L		91
16) t-1,2-Dichloroethene	4.490	61	912	0.22 ug/L		89
17) n-Hexane	4.594	86	38	0.10 ug/L	#	6
18) Methyl-tert-butyl-ether	0.000		0	N.D.		
19) tert-Butanol (TBA)	4.813	59	379	0.82 ug/L	#	7
20) Diisopropyl ether (DIPE)	0.000		0	N.D.		
21) 1,1-Dichloroethane	5.203	63	103	0.02 ug/L	#	50
22) Acrylonitrile	0.000		0	N.D.		
23) Vinyl Acetate	0.000		0	N.D.		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.		
25) c-1,2-Dichloroethene	5.807	61	408	0.10 ug/L		73
26) 2,2-Dichloropropane	5.929	77	20	0.01 ug/L	#	32
27) Bromochloromethane	6.014	49	145	0.05 ug/L	#	28
28) Chloroform	6.112	83	156	0.03 ug/L		81
29) Carbon Tetrachloride	6.252	117	37	0.01 ug/L	#	10
30) Tetrahydrofuran	6.282	42	10	0.01 ug/L	#	40
31) 1,1,1-Trichloroethane	6.319	97	91	0.02 ug/L		77
33) 1,1-Dichloropropene	6.453	75	643	0.18 ug/L		93
34) 2-Butanone (MEK)	6.416	43	10	0.00 ug/L		52
35) Benzene	6.739	78	683	0.06 ug/L		91
36) tert-Amyl methyl ether...	6.849	73	221	0.04 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.965	62	105	0.03 ug/L	#	49
38) iso-Butyl Alcohol	7.063	43	11	0.04 ug/L	#	22
40) Trichloroethene (TCE)	7.386	130	627	0.19 ug/L		74
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	7.867	93	91	0.04 ug/L	#	63
43) 1,2-Dichloropropane	7.977	63	41	0.01 ug/L	#	40
44) Bromodichloromethane	8.050	83	78	0.02 ug/L	#	26
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.		
47) c-1,3-Dichloropropene	8.782	75	155	0.62 ug/L	#	71
49) Toluene	9.013	91	1457	0.11 ug/L		83

NK
4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042819.D
Acq On : 28 Apr 2020 10:08 pm
Operator : PS
Sample : 0D28059-IBL6
Misc : 1X 5mL DI
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 30 09:38:30 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

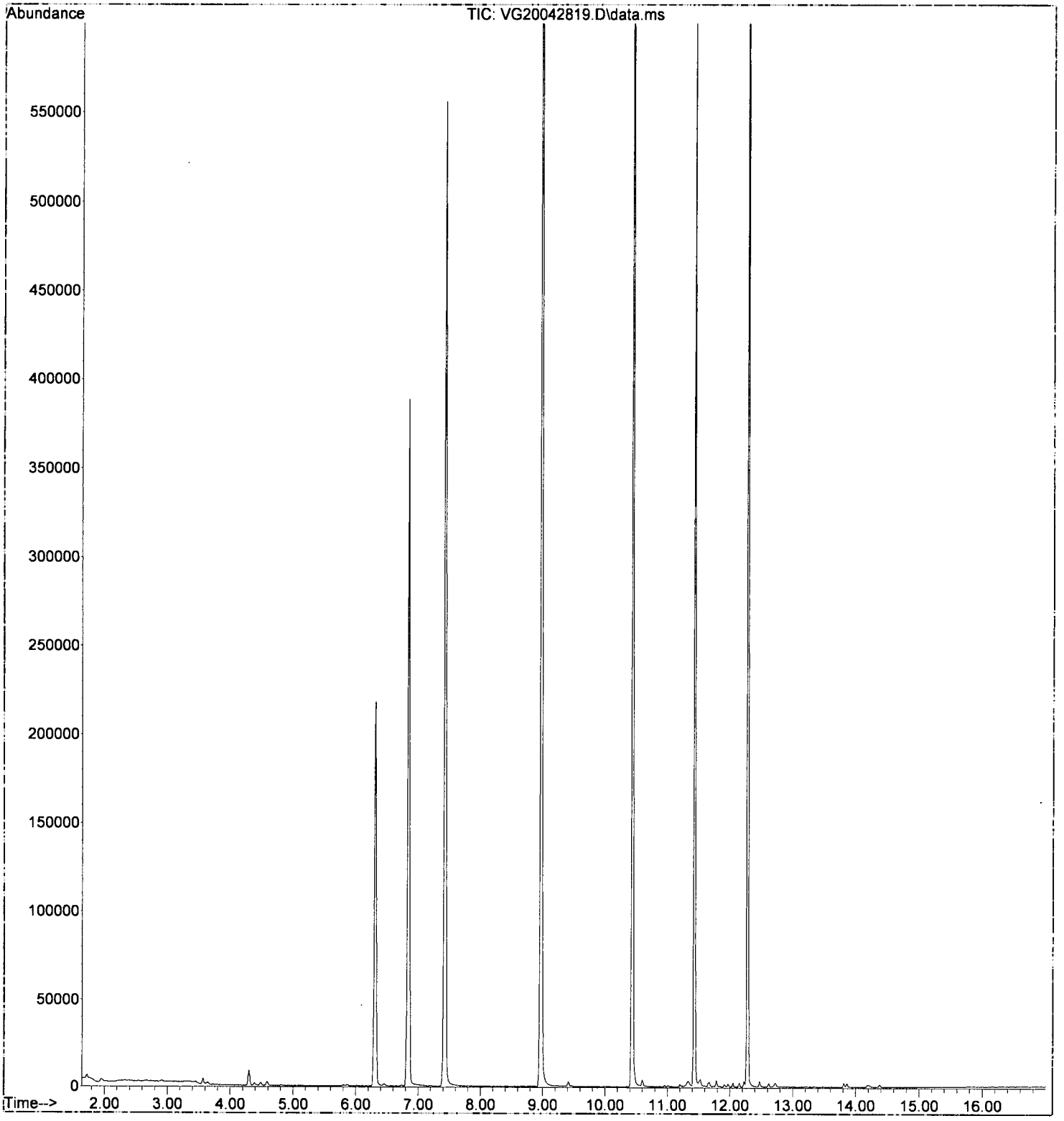
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	917	0.33 ug/L	96
51) 4-Methyl-2-Pentanone (...	9.428	43	44	0.01 ug/L #	43
52) t-1,3-Dichloropropene	9.452	75	173	0.40 ug/L #	45
53) 1,1,2-Trichloroethane	9.617	97	23	0.01 ug/L	85
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	9.861	76	132	0.03 ug/L #	70
56) 1,2-Dibromoethane (EDB)	9.989	107	153	0.05 ug/L	84
57) 2-Hexanone	10.312	43	10	0.00 ug/L #	32
58) Chlorobenzene	10.440	112	1227	0.14 ug/L #	1
59) Ethylbenzene	10.470	91	1612	0.12 ug/L	91
60) 1,1,1,2-Tetrachloroethane	10.507	131	31	0.01 ug/L #	1
61) m,p-Xylenes (2)	10.598	91	2528	0.39 ug/L	96
62) o-Xylene	10.958	91	611	0.15 ug/L	84
63) Styrene	11.013	104	583	0.28 ug/L	95
64) Bromoform	11.031	173	10	0.21 ug/L #	37
65) Isopropylbenzene	11.202	105	952	0.27 ug/L	91
68) Bromobenzene	11.513	156	432	0.14 ug/L	83
69) n-Propylbenzene	11.531	91	2616	0.22 ug/L	93
70) 1,1,2,2-Tetrachloroethane	11.586	83	103	0.03 ug/L #	60
71) 2-Chlorotoluene	11.659	126	393	0.16 ug/L #	71
72) 1,3,5-Trimethylbenzene	11.671	105	1086	0.14 ug/L	87
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	11.732	88	12	0.03 ug/L #	44
75) 4-Chlorotoluene	11.781	91	1679	0.23 ug/L	87
76) tert-Butylbenzene	11.909	91	522	0.13 ug/L #	73
77) 1,2,4-Trimethylbenzene	11.970	105	1108	0.30 ug/L	96
78) sec-Butylbenzene	12.049	105	1601	0.18 ug/L	96
79) 4-Isopropyltoluene	12.147	119	1313	0.34 ug/L	97
80) 1,3-Dichlorobenzene	12.226	146	1318	0.28 ug/L	84
81) 1,4-Dichlorobenzene	12.287	146	1830	0.34 ug/L	81
82) n-Butylbenzene	12.470	91	2037	0.32 ug/L	85
83) 1,2-Dichlorobenzene	12.616	146	887	0.20 ug/L	98
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	13.811	223	319	0.58 ug/L #	71
86) 1,2,4-Trichlorobenzene	13.854	180	928	0.63 ug/L	81
87) Naphthalene	14.183	128	1265	1.05 ug/L	79
88) 1,2,3-Trichlorobenzene	14.378	180	710	0.31 ug/L #	68

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042819.D
Acq On : 28 Apr 2020 10:08 pm
Operator : PS
Sample : 0D28059-IBL6
Misc : 1X 5mL DI
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 30 09:38:30 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042820.D
Acq On : 28 Apr 2020 10:35 pm
Operator : PS
Sample : 0D28059-ICV1
Misc : 1X 5mL 20-40PPB VOCRO (A19L196+A20C151+A19L249)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 30 09:38:33 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	159516	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	441218	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	214893	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	155293	48.96	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	504406	49.15	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	599023	49.73	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	168485	48.87	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	61355	18.50	ug/L		98
3) Chloromethane	1.978	50	72113	18.34	ug/L		100
4) Vinyl Chloride	2.100	62	76580	19.49	ug/L		95
5) Bromomethane	2.533	96	41839	17.82	ug/L		99
6) Chloroethane	2.704	64	18308	14.76	ug/L		93
7) Trichlorofluoromethane	2.899	101	78865	19.72	ug/L		98
8) Ethanol	3.624	45	104339	1263.28	ug/L		84
9) 1,1-Dichloroethene	3.563	61	75693	17.04	ug/L		96
10) Carbon Disulfide	3.563	76	96998	17.46	ug/L		99
11) Freon 113	3.636	101	49579	17.67	ug/L		93
12) Iodomethane	3.722	142	23295	21.57	ug/L		94
13) Acrolein	4.008	56	16167	20.79	ug/L		99
14) Methylene Chloride	4.295	84	70870	19.50	ug/L		98
15) Acetone	4.380	43	64898	39.62	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	83741	19.30	ug/L		97
17) n-Hexane	4.581	86	7545	18.67	ug/L	#	26
18) Methyl-tert-butyl-ether	4.636	73	151947	21.57	ug/L		98
19) tert-Butanol (TBA)	4.801	59	725153	1500.93	ug/L	#	76
20) Diisopropyl ether (DIPE)	5.087	45	45236	5.69	ug/L		95
21) 1,1-Dichloroethane	5.191	63	115257	20.13	ug/L		99
22) Acrylonitrile	5.264	53	37569	20.81	ug/L		95
23) Vinyl Acetate	5.502	43	97037	17.41	ug/L		95
24) Ethyl-tert-butyl ether...	5.490	59	35255	5.74	ug/L		94
25) c-1,2-Dichloroethene	5.795	61	87258	20.92	ug/L		97
26) 2,2-Dichloropropane	5.904	77	43887	18.19	ug/L	#	65
27) Bromochloromethane	6.008	49	59271	18.89	ug/L		86
28) Chloroform	6.105	83	110895	20.12	ug/L		97
29) Carbon Tetrachloride	6.233	117	60263	21.60	ug/L		97
30) Tetrahydrofuran	6.282	42	33845	21.78	ug/L		99
31) 1,1,1-Trichloroethane	6.313	97	80606	20.20	ug/L		94
33) 1,1-Dichloropropene	6.453	75	82110	22.13	ug/L		98
34) 2-Butanone (MEK)	6.453	43	101928	42.53	ug/L		98
35) Benzene	6.721	78	266648	21.06	ug/L		99
36) tert-Amyl methyl ether...	6.874	73	31484	5.18	ug/L		76
37) 1,2-Dichloroethane (EDC)	6.953	62	87437	20.31	ug/L		96
38) iso-Butyl Alcohol	7.020	43	156286	517.93	ug/L		97
40) Trichloroethene (TCE)	7.380	130	70624	20.19	ug/L		97
41) tert-Amyl ethyl ether ...	7.660	59	23370	5.75	ug/L		88
42) Dibromomethane	7.855	93	42818	19.97	ug/L		87
43) 1,2-Dichloropropane	7.965	63	71057	20.84	ug/L		94
44) Bromodichloromethane	8.044	83	74470	21.75	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.709	63	27443	19.39	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	82345	19.40	ug/L		96
49) Toluene	9.019	91	279309	20.02	ug/L		100

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042820.D
Acq On : 28 Apr 2020 10:35 pm
Operator : PS
Sample : 0D28059-ICV1
Misc : 1X 5mL 20-40PPB VOCRO (A19L196+A20C151+A19L249)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 30 09:38:33 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

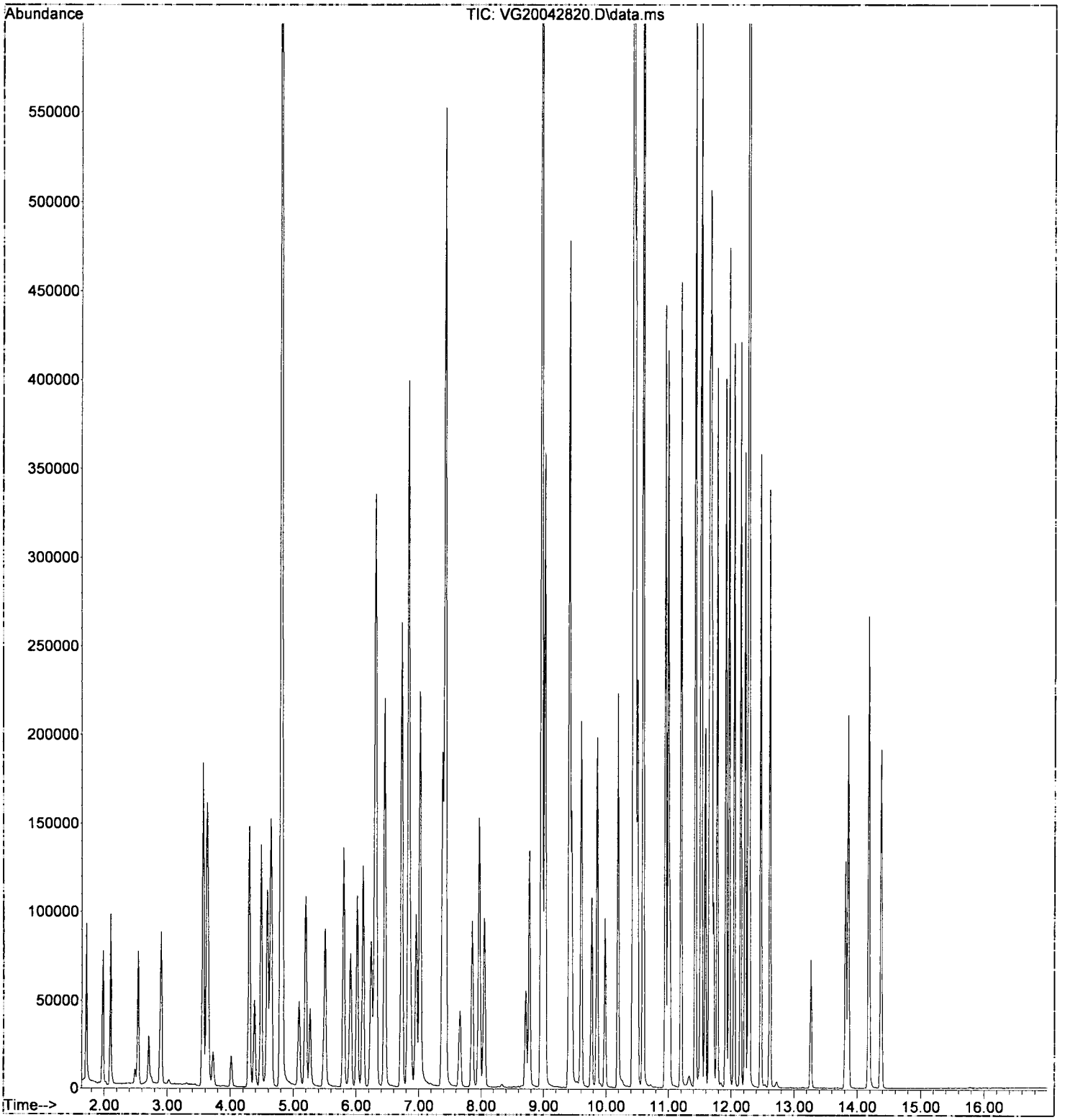
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	61706	21.39 ug/L	92
51) 4-Methyl-2-Pentanone (...	9.410	43	190805	41.80 ug/L	99
52) t-1,3-Dichloropropene	9.446	75	75061	19.60 ug/L	96
53) 1,1,2-Trichloroethane	9.599	97	66335	21.11 ug/L	97
54) Dibromochloromethane	9.769	129	58204	20.36 ug/L	97
55) 1,3-Dichloropropane	9.855	76	109086	21.67 ug/L	98
56) 1,2-Dibromoethane (EDB)	9.983	107	65645	22.40 ug/L	99
57) 2-Hexanone	10.190	43	137116	40.50 ug/L	100
58) Chlorobenzene	10.446	112	181561	20.65 ug/L	99
59) Ethylbenzene	10.464	91	299962	21.77 ug/L	98
60) 1,1,1,2-Tetrachloroethane	10.501	131	53954	21.61 ug/L	97
61) m,p-Xylenes (2)	10.592	91	444010	42.08 ug/L	99
62) o-Xylene	10.946	91	216251	20.87 ug/L	96
63) Styrene	10.989	104	176082	21.25 ug/L	99
64) Bromoform	11.019	173	40985	19.95 ug/L	98
65) Isopropylbenzene	11.196	105	255763	21.22 ug/L	97
68) Bromobenzene	11.513	156	73096	20.75 ug/L	89
69) n-Propylbenzene	11.519	91	306865	21.94 ug/L	95
70) 1,1,2,2-Tetrachloroethane	11.580	83	91449	21.01 ug/L	97
71) 2-Chlorotoluene	11.647	126	64230	22.01 ug/L	94
72) 1,3,5-Trimethylbenzene	11.671	105	211739	23.22 ug/L	94
73) 1,2,3-Trichloropropane	11.690	110	29376	21.44 ug/L #	75
74) t-1,4-Dichloro-2-butene	11.720	88	7608	16.09 ug/L #	83
75) 4-Chlorotoluene	11.775	91	195007	22.66 ug/L	96
76) tert-Butylbenzene	11.915	91	109741	23.44 ug/L	93
77) 1,2,4-Trimethylbenzene	11.964	105	207410	22.97 ug/L	98
78) sec-Butylbenzene	12.043	105	243925	23.12 ug/L	96
79) 4-Isopropyltoluene	12.147	119	192788	22.00 ug/L	99
80) 1,3-Dichlorobenzene	12.220	146	127930	22.91 ug/L	96
81) 1,4-Dichlorobenzene	12.287	146	132714	20.90 ug/L	97
82) n-Butylbenzene	12.470	91	174865	23.26 ug/L	97
83) 1,2-Dichlorobenzene	12.610	146	124636	23.49 ug/L	99
84) 1,2-Dibromo-3-Chloropr...	13.263	157	17571	20.69 ug/L	74
85) Hexachlorobutadiene	13.811	223	15607	23.93 ug/L	94
86) 1,2,4-Trichlorobenzene	13.854	180	67104	23.72 ug/L	95
87) Naphthalene	14.177	128	217197	23.16 ug/L	99
88) 1,2,3-Trichlorobenzene	14.372	180	68875	25.85 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042820.D
Acq On : 28 Apr 2020 10:35 pm
Operator : PS
Sample : 0D28059-ICV1
Misc : 1X 5mL 20-40PPB VOCRO (A19L196+A20C151+A19L249)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 30 09:38:33 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042821.D
Acq On : 28 Apr 2020 11:02 pm
Operator : PS
Sample : 0D28059-IBL7
Misc : 1X 5mL DI
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 30 09:38:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	6.837	99	134724	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	10.428	117	365933	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	154202	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	6.307	111	132741	49.56 ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	438161	50.55 ug/L	0.00
48) Toluene-d8 (S)	8.965	98	512715	51.32 ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.428	174	127332	51.47 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.716	85	550	0.20 ug/L	95
3) Chloromethane	1.978	50	433	0.13 ug/L	89
4) Vinyl Chloride	2.094	62	200	0.06 ug/L #	48
5) Bromomethane	2.527	96	240	0.12 ug/L #	66
6) Chloroethane	2.716	64	169	Below Cal	77
7) Trichlorofluoromethane	2.911	101	315	0.09 ug/L	74
8) Ethanol	3.606	45	299	4.29 ug/L #	29
9) 1,1-Dichloroethene	3.569	61	376	0.10 ug/L	75
10) Carbon Disulfide	3.569	76	1783	0.38 ug/L	93
11) Freon 113	3.643	101	511	0.22 ug/L	78
12) Iodomethane	3.734	142	42	4.85 ug/L #	47
13) Acrolein	4.082	56	10	0.02 ug/L #	23
14) Methylene Chloride	4.301	84	6443	2.10 ug/L	96
15) Acetone	4.386	43	2501	1.81 ug/L	94
16) t-1,2-Dichloroethene	4.490	61	523	0.14 ug/L	92
17) n-Hexane	4.600	86	11	0.03 ug/L #	45
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	4.813	59	770	1.89 ug/L #	98
20) Diisopropyl ether (DIPE)	5.094	45	10	0.00 ug/L #	33
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	5.496	59	10	0.00 ug/L #	38
25) c-1,2-Dichloroethene	5.801	61	189	0.05 ug/L	84
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	6.020	49	131	0.05 ug/L #	14
28) Chloroform	6.106	83	94	0.02 ug/L #	25
29) Carbon Tetrachloride	6.240	117	15	0.01 ug/L #	13
30) Tetrahydrofuran	6.295	42	10	0.01 ug/L #	37
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	6.453	75	395	0.13 ug/L	79
34) 2-Butanone (MEK)	0.000		0	N.D.	
35) Benzene	6.727	78	567	0.05 ug/L	80
36) tert-Amyl methyl ether...	6.831	73	241	0.05 ug/L #	1
37) 1,2-Dichloroethane (EDC)	6.965	62	33	0.01 ug/L #	49
38) iso-Butyl Alcohol	7.038	43	21	0.08 ug/L #	22
40) Trichloroethene (TCE)	7.380	130	343	0.12 ug/L	88
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	7.910	93	10	0.01 ug/L #	1
43) 1,2-Dichloropropane	7.977	63	19	0.01 ug/L #	40
44) Bromodichloromethane	0.000		0	N.D.	
46) 2-Chloroethyl Vinyl Ether	8.770	63	10	0.76 ug/L #	1
47) c-1,3-Dichloropropene	8.782	75	10	0.59 ug/L #	1
49) Toluene	9.020	91	988	0.09 ug/L	83

4/30/20 MJ

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042821.D
Acq On : 28 Apr 2020 11:02 pm
Operator : PS
Sample : 0D28059-IBL7
Misc : 1X 5mL DI
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 30 09:38:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

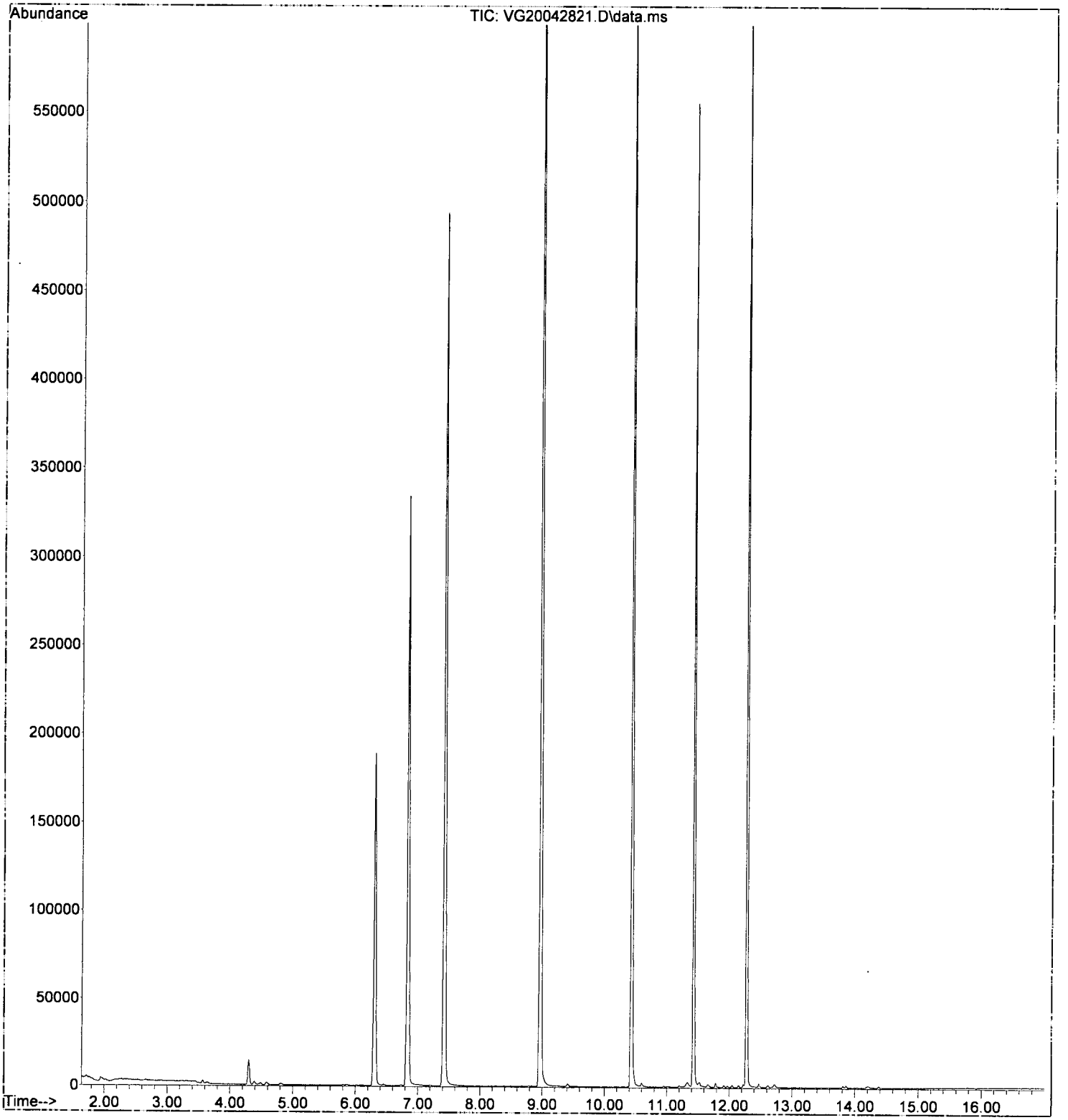
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	518	0.22 ug/L		80
51) 4-Methyl-2-Pentanone (...	9.434	43	31	0.01 ug/L	#	43
52) t-1,3-Dichloropropene	9.465	75	112	0.38 ug/L	#	45
53) 1,1,2-Trichloroethane	0.000		0	N.D.		
54) Dibromochloromethane	9.769	129	11	0.17 ug/L	#	17
55) 1,3-Dichloropropane	9.867	76	51	0.01 ug/L	#	60
56) 1,2-Dibromoethane (EDB)	9.995	107	33	0.01 ug/L	#	7
57) 2-Hexanone	0.000		0	N.D.		
58) Chlorobenzene	10.440	112	781	0.11 ug/L	#	1
59) Ethylbenzene	10.477	91	1087	0.10 ug/L		96
60) 1,1,1,2-Tetrachloroethane	10.519	131	10	0.00 ug/L	#	1
61) m,p-Xylenes (2)	10.599	91	1377	0.30 ug/L		78
62) o-Xylene	10.952	91	474	0.14 ug/L		83
63) Styrene	11.013	104	355	0.26 ug/L		86
64) Bromoform	0.000		0	N.D.		
65) Isopropylbenzene	11.202	105	651	0.25 ug/L		85
68) Bromobenzene	11.507	156	295	0.12 ug/L		78
69) n-Propylbenzene	11.525	91	1642	0.16 ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.586	83	38	0.01 ug/L	#	24
71) 2-Chlorotoluene	11.653	126	248	0.12 ug/L		90
72) 1,3,5-Trimethylbenzene	11.672	105	717	0.11 ug/L		80
73) 1,2,3-Trichloropropane	0.000		0	N.D.		
74) t-1,4-Dichloro-2-butene	11.787	88	10	0.03 ug/L	#	18
75) 4-Chlorotoluene	11.781	91	1029	0.17 ug/L		93
76) tert-Butylbenzene	11.922	91	377	0.11 ug/L		88
77) 1,2,4-Trimethylbenzene	11.964	105	606	0.25 ug/L		82
78) sec-Butylbenzene	12.050	105	955	0.13 ug/L		90
79) 4-Isopropyltoluene	12.147	119	884	0.30 ug/L		93
80) 1,3-Dichlorobenzene	12.226	146	742	0.19 ug/L		96
81) 1,4-Dichlorobenzene	12.287	146	1165	0.26 ug/L	#	66
82) n-Butylbenzene	12.470	91	1377	0.26 ug/L		86
83) 1,2-Dichlorobenzene	12.616	146	545	0.14 ug/L		95
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.		
85) Hexachlorobutadiene	13.811	223	160	0.34 ug/L	#	79
86) 1,2,4-Trichlorobenzene	13.854	180	528	0.51 ug/L		78
87) Naphthalene	14.183	128	738	1.00 ug/L		91
88) 1,2,3-Trichlorobenzene	14.384	180	342	0.18 ug/L		94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042821.D
Acq On : 28 Apr 2020 11:02 pm
Operator : PS
Sample : 0D28059-IBL7
Misc : 1X 5mL DI
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 30 09:38:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Batch 0050585
Sequence 0E18036 (A0E0347-01,02)

MAY 2 9 2020

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050585 (Water)

Prep Method: EPA 3510C (Neutral pH)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050585-BLK1		QC	05/15/20 10:24	1100	2				100					
	0050585-BSD1		QC	05/15/20 10:24	1000	2	A20E044		100	100					
	0050585-BS1		QC	05/15/20 10:24	1000	2	A20E044		100	100					
	A0E0347-01	F	8082 PCBs - Low Level (2mL FV)	05/15/20 10:24	1070	2				100	PDI-FB-2005121 245	Waters only,+1262,1268			
	A0E0347-02	F	8082 PCBs - Low Level (2mL FV)	05/15/20 10:24	1060	2				100	PDI-RB-2005121 245	Waters only,+1262,1268			
	A0E0409-01	A	8082 PCBs	05/15/20 10:24	1070	5				100	151796-1				
	A0E0412-06	H	608.3 PCBs	05/15/20 10:24	1070	5				100	WR-132 (008)				
	A0E0412-07	H	608.3 PCBs	05/15/20 10:24	1060	5				100	WR-137 (015)				
	A0E0412-08	H	608.3 PCBs	05/15/20 10:24	1050	5				100	WR-150 (025)				
	A0E0412-09	H	608.3 PCBs	05/15/20 10:24	1050	5				100	034				
	A0E0412-10	H	608.3 PCBs	05/15/20 10:24	1070	5				100	035				
	A0E0412-11	H	608.3 PCBs	05/15/20 10:24	1040	5				100	036				

tandards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19I211	05/07/22	Copper, Granular Lot# J260003
A20A032	06/30/23	n-Hexane Lot# 197051
A20A327	07/22/20	Florisil Lot 919270-CP
A20B017	08/01/20	Glass Wool
A20C055	08/31/20	Sulfuric Acid
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E020	10/31/22	DCM CHEM PROD. 197898

Analyte Spike(s)

Std ID	Exp. Date	Description
A20E044	11/06/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20D453	09/20/20	8082 PCB Surrogate Spike

3x rinse

Witness: _____

Bottle Check: _____

Prepared By: _____ Date _____

Reviewed By: _____ Date 5/26/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050585 (Water)

Prep Method: EPA 3510C (Neutral pH)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050585-BLK1		QC	05/15/20 10:24	1000 1100	2				100				6	
	0050585-BSD1		QC	05/15/20 10:24	1000	2	A20E044		100	100				6	
	0050585-BS1		QC	05/15/20 10:24	1000	2	A20E044		100	100				6	
	A0E0347-01	E F	8082 PCBs - Low Level (2mL FV)	05/15/20 10:24	1000 1070	2				100	PDI-FB-2005121 245	Waters only,+1262,1268		6	
	A0E0347-02	E F	8082 PCBs - Low Level (2mL FV)	05/15/20 10:24	1000 1060	2				100	PDI-RB-2005121 245	Waters only,+1262,1268		6	
	A0E0409-01	A	8082 PCBs	05/15/20 10:24	1000 1070	5				100	151796-1	E		7	
	A0E0412-06	H	608.3 PCBs	05/15/20 10:24	1000 1070	5				100	WR-132 (008)			6	
	A0E0412-07	H	608.3 PCBs	05/15/20 10:24	1000 1060	5				100	WR-137 (015)			6	
	A0E0412-08	H	608.3 PCBs	05/15/20 10:24	1000 1050	5				100	WR-150 (025)	E		6	
	A0E0412-09	H	608.3 PCBs	05/15/20 10:24	1000 1050	5				100	034			6	
	A0E0412-10	H	608.3 PCBs	05/15/20 10:24	1000 1070	5				100	035			6	
	A0E0412-11	H	608.3 PCBs	05/15/20 10:24	1000 1070	5				100	036			6	

tandards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19I211	05/07/22	Copper, Granular Lot# J260003
A20A032	06/30/23	n-Hexane Lot# 197051
A20A327	07/22/20	Florisil Lot 919270-CP
A20B017	08/01/20	Glass Wool
A20C055	08/31/20	Sulfuric Acid
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E020	10/31/22	DCM CHEM PROD. 197898

Analyte Spike(s)

Std ID	Exp. Date	Description
A20E044	11/06/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20D453	09/20/20	8082 PCB Surrogate Spike

3x rinse

Witness: CAH 5/15/20

Bottle Check: CAH 5/15/20

E = Emulsion

* = No water in TurboVap caused the N_2 to freeze the water in the air over samples. water to be filtered out of samples.

Prepared By: 5/15/20 Date

Reviewed By: cas 05/15/2020 Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0E18036**	Instrument:	**DUALECD6F**
Date:	**05/18/20 08:14**	Calibration:	**A0C3001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E18036-CCV1	Water	QC	QC				A20E179
2	0E18036-CCB1	Water	QC	QC				A20E115
3	0050525-BLK1	Water	QC	QC		0050525		
4	0050525-BS1	Water	QC	QC		0050525		
5	0050525-BSD1	Water	QC	QC		0050525		
6	A0D0729-01RE1	Water	8082 PCBs - Low Level (1000/1mL)	Anchor QEA, LLC	05/12/20	0050525		
7	A0D0729-02RE1	Water	8082 PCBs - Low Level (1000/1mL) ([	Anchor QEA, LLC	05/12/20	0050525		
8	A0D0729-03RE1	Water	8082 PCBs - Low Level (1000/1mL)	Anchor QEA, LLC	05/12/20	0050525		
9	A0D0729-04RE1	Water	8082 PCBs - Low Level (1000/1mL) ([	Anchor QEA, LLC	05/12/20	0050525		
10	A0D0729-05RE1	Water	8082 PCBs - Low Level (1000/1mL)	Anchor QEA, LLC	05/12/20	0050525		
11	A0D0729-06RE1	Water	8082 PCBs - Low Level (1000/1mL) ([	Anchor QEA, LLC	05/12/20	0050525		
12	A0E0223-01RE1	Water	8082 PCBs - Low Level (1000/1mL)	Anchor QEA, LLC	05/20/20	0050525		
13	0E18036-CCV2	Water	QC	QC				A20E179
14	0E18036-CCB2	Water	QC	QC				A20E115
15	A0E0223-02RE1	Water	8082 PCBs - Low Level (1000/1mL) ([	Anchor QEA, LLC	05/20/20	0050525		
16	0050585-BLK1	Water	QC	QC		0050585		
17	0050585-BS1	Water	QC	QC		0050585		
18	0050585-BSD1	Water	QC	QC		0050585		
19	A0E0347-01	Water	8082 PCBs - Low Level (2mL FV)	Anchor QEA, LLC	05/27/20	0050585		
20	A0E0347-02	Water	8082 PCBs - Low Level (2mL FV)	Anchor QEA, LLC	05/27/20	0050585		
21	A0E0409-01	Water	8082 PCBs	NRC	05/19/20	0050585		
22	A0E0412-06	Water	608.3 PCBs	Gunderson	05/28/20	0050585		
23	A0E0412-07	Water	608.3 PCBs	Gunderson	05/28/20	0050585		
24	A0E0412-08	Water	608.3 PCBs	Gunderson	05/28/20	0050585		
25	0E18036-CCV3	Water	QC	QC				A20E179
26	0E18036-CCB3	Water	QC	QC				A20E115

Comments: Complete

Data Entered By: 5/20/20

Data Reviewed By: 5/20/20

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0E18036-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	549.50
1016 (1)	549.50
1016 (2)	578.16
1016 (2)	578.16
1016 (3)	591.79
1016 (3)	591.79
1016 (4)	597.57
1016 (4)	597.57
1016 (5)	588.89
1016 (5)	588.89
1016 (6)	610.52
1016 (6)	610.52
Average:	**586.07**

MJB 5/18/20

Aroclor 1260

Peak	Initial Res
1260 (1)	593.96
1260 (1)	593.96
1260 (2)	605.33
1260 (2)	605.33
1260 (3)	621.24
1260 (3)	621.24
1260 (4)	616.20
1260 (4)	616.20
1260 (5)	606.53
1260 (5)	606.53
1260 (6)	604.96
1260 (6)	604.96
Average:	**608.04**

0050525-BS1

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0050525-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	842.42
1016 (1)	842.42
1016 (2)	1,033.38
1016 (2)	1,033.38
1016 (3)	923.44
1016 (3)	923.44
1016 (4)	979.18
1016 (4)	979.18
1016 (5)	1,038.16
1016 (5)	1,038.16
1016 (6)	1,062.42
1016 (6)	1,062.42
Average:	**979.83**

Aroclor 1260

MJB 5/18/20

Peak	Initial Res
1260 (1)	1,152.61
1260 (1)	1,152.61
1260 (2)	1,195.18
1260 (2)	1,195.18
1260 (3)	1,212.43
1260 (3)	1,212.43
1260 (4)	1,343.48
1260 (4)	1,343.48
1260 (5)	1,341.22
1260 (5)	1,341.22
1260 (6)	1,292.87
1260 (6)	1,292.87
Average:	**1,256.30**

0050525-BSD1

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0050525-BSD1

Aroclor 1016

Peak	Initial Res
1016 (1)	1,071.22
1016 (1)	1,071.22
1016 (2)	1,264.34
1016 (2)	1,264.34
1016 (3)	1,139.82
1016 (3)	1,139.82
1016 (4)	1,152.17
1016 (4)	1,152.17
1016 (5)	1,222.31
1016 (5)	1,222.31
1016 (6)	1,201.85
1016 (6)	1,201.85
Average:	**1,175.28**

Aroclor 1260

MJB 5/18/20

Peak	Initial Res
1260 (1)	1,248.12
1260 (1)	1,248.12
1260 (2)	1,299.38
1260 (2)	1,299.38
1260 (3)	1,298.57
1260 (3)	1,298.57
1260 (4)	1,411.96
1260 (4)	1,411.96
1260 (5)	1,348.97
1260 (5)	1,348.97
1260 (6)	1,334.47
1260 (6)	1,334.47
Average:	**1,323.58**

0E18036-CCV2

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0E18036-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	556.52
1016 (1)	556.52
1016 (2)	589.49
1016 (2)	589.49
1016 (3)	585.58
1016 (3)	585.58
1016 (4)	596.47
1016 (4)	596.47
1016 (5)	600.52
1016 (5)	600.52
1016 (6)	630.77
1016 (6)	630.77
Average:	**593.22**

Aroclor 1260

Peak	Initial Res
1260 (1)	597.21
1260 (1)	597.21
1260 (2)	602.89
1260 (2)	602.89
1260 (3)	610.12
1260 (3)	610.12
1260 (4)	643.59
1260 (4)	643.59
1260 (5)	633.97
1260 (5)	633.97
1260 (6)	619.71
1260 (6)	619.71
Average:	**617.92**

M/B 5/18/20

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0E18036-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	556.52
1016 (2)	589.49
1016 (3)	585.58
1016 (4)	596.47
1016 (5)	600.52
1016 (6)	630.77
Average:	**593.22**

Aroclor 1260

Peak	Initial Res
1260 (1)	597.21
1260 (2)	602.89
1260 (3)	610.12
1260 (4)	643.59
1260 (5)	633.97
1260 (6)	619.71
Average:	**617.92**

0050585-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	1,051.83
1016 (2)	1,212.76
1016 (3)	1,126.99
1016 (4)	1,126.05
1016 (5)	1,153.34
1016 (6)	1,165.74
Average:	**1,139.45**

Aroclor 1260

Peak	Initial Res
1260 (1)	1,253.54
1260 (2)	1,257.59
1260 (3)	1,226.35
1260 (4)	1,412.29
1260 (5)	1,286.54
1260 (6)	1,286.97
Average:	**1,287.21**

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0050585-BSD1

Aroclor 1016

Peak	Initial Res
1016 (1)	1,072.78
1016 (2)	1,251.42
1016 (3)	1,185.94
1016 (4)	1,201.02
1016 (5)	1,242.13
1016 (6)	1,240.64
Average:	**1,198.99**

Aroclor 1260

Peak	Initial Res
1260 (1)	1,329.35
1260 (2)	1,363.31
1260 (3)	1,309.79
1260 (4)	1,481.66
1260 (5)	1,424.60
1260 (6)	1,403.26
Average:	**1,385.33**

0E18036-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	502.29
1016 (2)	544.50
1016 (3)	542.13
1016 (4)	569.36
1016 (5)	573.57
1016 (6)	604.25
Average:	**556.02**

Aroclor 1260

Peak	Initial Res
1260 (1)	584.11
1260 (2)	586.02
1260 (3)	599.63
1260 (4)	626.85
1260 (5)	630.47
1260 (6)	612.81
Average:	**606.65**

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F003.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 9:03 am
Operator : MJB/KAK
Sample : 0E18036-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:21:45 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 5/18/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.216	53973369	284.892	ng/ml
62)	S DCBP (S)	10.181	50951565	296.752	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.125	3873534	549.497	ng/ml
3)	Aroclor 1016 (2)	6.544	7321300	578.159	ng/ml
4)	Aroclor 1016 (3)	6.627	4124411	591.792	ng/ml
5)	Aroclor 1016 (4)	6.782	4084146	597.570	ng/ml
6)	Aroclor 1016 (5)	7.009	4296616	588.889	ng/ml
7)	Aroclor 1016 (6)	7.137	3164538	610.523	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.569	1269698	506.021	ng/ml
10)	Aroclor 1221 (2)	5.682	432782	282.697	ng/ml
11)	Aroclor 1221 (3)	5.764	1976801	396.545	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.764	1976801	490.439	ng/ml
14)	Aroclor 1232 (2)	6.544	7321300	1403.243	ng/ml
15)	Aroclor 1232 (3)	6.627	4124411	1443.185	ng/ml
16)	Aroclor 1232 (4)	6.782	4084146	1731.622	ng/ml
17)	Aroclor 1232 (5)	7.009	4296616	1566.760	ng/ml
18)	Aroclor 1232 (6)	7.137	3164538	1377.493	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.125	3873534	752.153	ng/ml
21)	Aroclor 1242 (2)	6.544	7321300	759.711	ng/ml
22)	Aroclor 1242 (3)	6.627	4124411	795.214	ng/ml
23)	Aroclor 1242 (4)	6.782	4084146	861.459	ng/ml
24)	Aroclor 1242 (5)	7.009	4296616	788.553	ng/ml
25)	Aroclor 1242 (6)	7.137	3164538	675.925	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.544	7321300	1213.517	ng/ml
28)	Aroclor 1248 (2)	6.782	4084146	488.269	ng/ml
29)	Aroclor 1248 (3)	7.009	4296616	485.605	ng/ml
30)	Aroclor 1248 (4)	7.306	767887	77.115	ng/ml
31)	Aroclor 1248 (5)	7.339	2765782	283.839	ng/ml
32)	Aroclor 1248 (6)	7.834	6848779	1166.508	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.339	2765782	246.799	ng/ml
35)	Aroclor 1254 (2)	7.450	3165196	229.269	ng/ml
36)	Aroclor 1254 (3)	7.834	6848779	324.425	ng/ml
37)	Aroclor 1254 (4)	7.996	862086	64.442	ng/ml
38)	Aroclor 1254 (5)	8.381	8495038	598.595	ng/ml
39)	Aroclor 1254 (6)	8.678	946812	213.777	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.947	8449529	593.960	ng/ml
42)	Aroclor 1260 (2)	8.081	11137388	605.327	ng/ml
43)	Aroclor 1260 (3)	8.647	8318037	621.243	ng/ml
44)	Aroclor 1260 (4)	8.818	20194552	616.195	ng/ml
45)	Aroclor 1260 (5)	9.131	11810577	606.525	ng/ml
46)	Aroclor 1260 (6)	9.583	4336214	604.960	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Q-U

586.07

608.04 Q-U

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F003.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 9:03 am
Operator : MJB/KAK
Sample : 0E18036-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:21:45 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

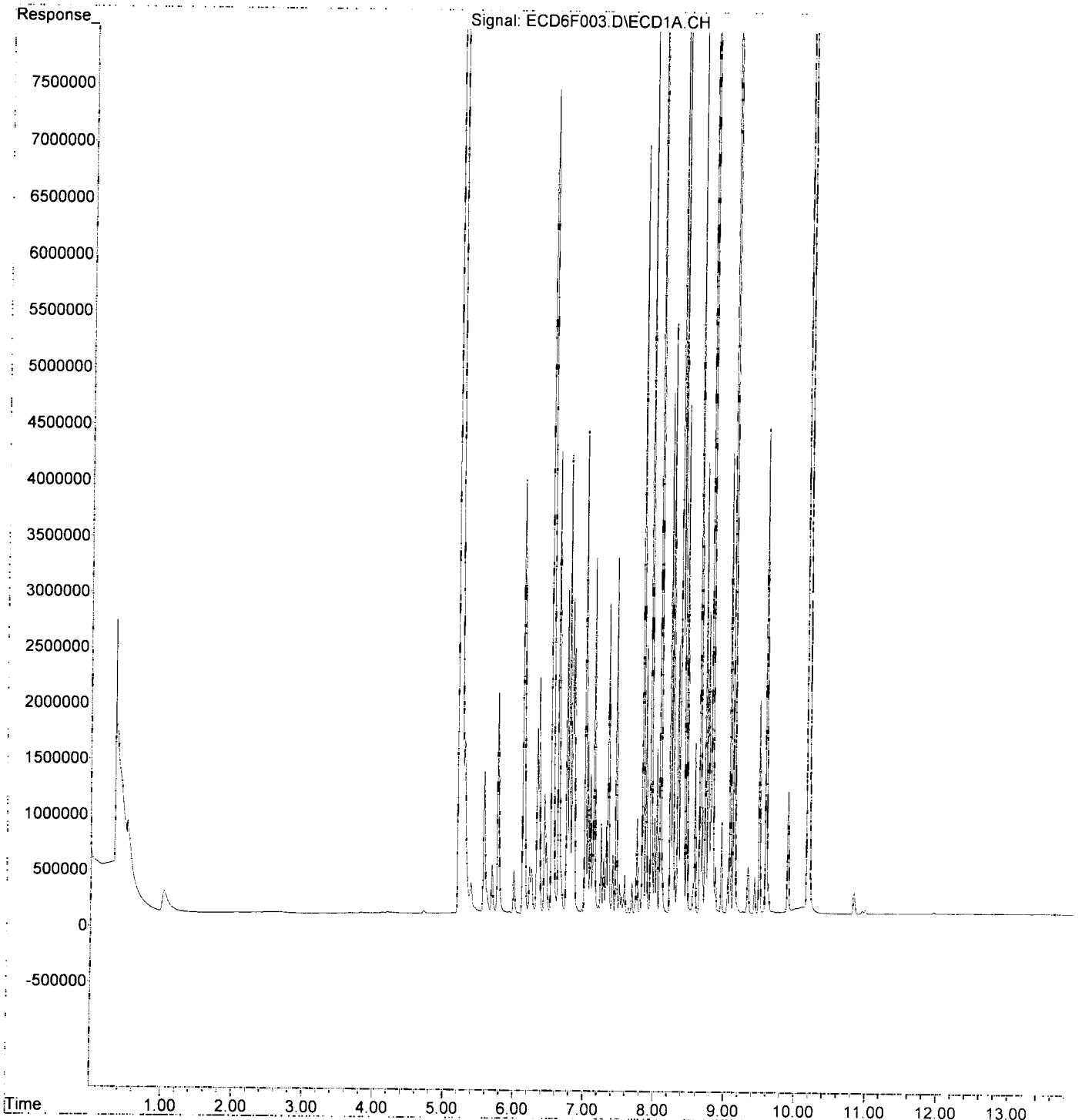
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.081	11137388	793.223	ng/ml
49)	Aroclor 1262 (2)	8.410	8504296	435.466	ng/ml
50)	Aroclor 1262 (3)	8.647	8318037	509.601	ng/ml
51)	Aroclor 1262 (4)	8.818	20194552	548.893	ng/ml
52)	Aroclor 1262 (5)	9.131	11810577	584.900	ng/ml
53)	Aroclor 1262 (6)	9.583	4336214	432.652	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.647	8318037	912.421	ng/ml
56)	Aroclor 1268 (2)	9.073	4121542	96.890	ng/ml
57)	Aroclor 1268 (3)	9.131	11810577	345.029	ng/ml
58)	Aroclor 1268 (4)	9.329	425168	13.912	ng/ml
59)	Aroclor 1268 (5)	9.583	4336214	391.790	ng/ml
60)	Aroclor 1268 (6)	9.893	1115818	13.493	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F003.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 9:03 am
Operator : MJB/KAK
Sample : 0E18036-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:21:45 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F004.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 9:21 am
Operator : MJB/KAK
Sample : 0E18036-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:21:54 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 5/18/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.216	18575625	98.049 ng/ml
62) S	DCBP (S)	10.181	18274079	106.432 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.125	3110	0.441 ng/ml
3)	Aroclor 1016 (2)	6.531	1831	0.145 ng/ml
4)	Aroclor 1016 (3)	6.618	1355	0.194 ng/ml
5)	Aroclor 1016 (4)	6.782	1572	0.230 ng/ml
6)	Aroclor 1016 (5)	7.004	1409	0.193 ng/ml
7)	Aroclor 1016 (6)	7.139	6331	1.222 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.571	385575	153.666 ng/ml
10)	Aroclor 1221 (2)	5.703	10496	6.856 ng/ml
11)	Aroclor 1221 (3)	5.765	8857	1.777 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.765	8857	2.197 ng/ml
14)	Aroclor 1232 (2)	6.531	1831	0.351 ng/ml
15)	Aroclor 1232 (3)	6.618	1355	0.474 ng/ml
16)	Aroclor 1232 (4)	6.782	1572	0.666 ng/ml
17)	Aroclor 1232 (5)	7.012	1604	0.585 ng/ml
18)	Aroclor 1232 (6)	7.139	6331	2.756 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.125	3110	0.604 ng/ml
21)	Aroclor 1242 (2)	6.531	1831	0.190 ng/ml
22)	Aroclor 1242 (3)	6.618	1355	0.261 ng/ml
23)	Aroclor 1242 (4)	6.782	1572	0.331 ng/ml
24)	Aroclor 1242 (5)	7.004	1409	0.259 ng/ml
25)	Aroclor 1242 (6)	7.139	6331	1.352 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.531	1831	0.303 ng/ml
28)	Aroclor 1248 (2)	6.782	1572	0.188 ng/ml
29)	Aroclor 1248 (3)	7.004	1409	0.159 ng/ml
30)	Aroclor 1248 (4)	7.304	752	0.076 ng/ml
31)	Aroclor 1248 (5)	7.340	676	0.069 ng/ml
32)	Aroclor 1248 (6)	7.824	5120	0.872 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.340	676	0.060 ng/ml
35)	Aroclor 1254 (2)	7.432	367	0.027 ng/ml
36)	Aroclor 1254 (3)	7.824	5120	0.243 ng/ml
37)	Aroclor 1254 (4)	8.011	2186	0.163 ng/ml
38)	Aroclor 1254 (5)	8.394	36415	2.566 ng/ml
39)	Aroclor 1254 (6)	8.683	3430	0.774 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.941	2946	0.207 ng/ml
42)	Aroclor 1260 (2)	8.076	3019	0.164 ng/ml
43)	Aroclor 1260 (3)	8.644	3542	0.265 ng/ml
44)	Aroclor 1260 (4)	8.816	124784	3.808 ng/ml
45)	Aroclor 1260 (5)	9.134	6861	0.352 ng/ml
46)	Aroclor 1260 (6)	9.592	4733	0.660 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F004.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 9:21 am
Operator : MJB/KAK
Sample : 0E18036-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:21:54 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

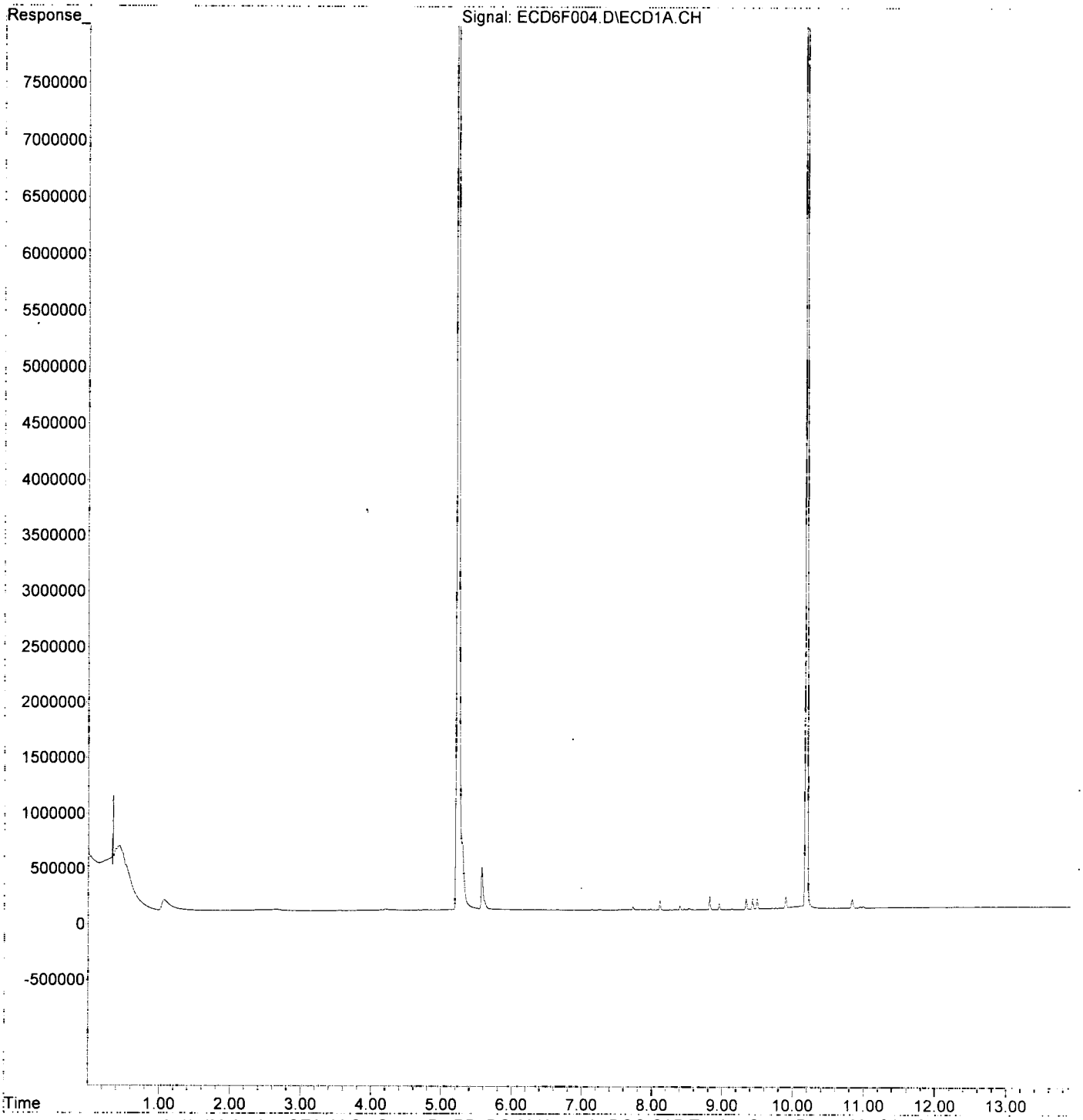
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.082	3016	0.215 ng/ml
49)	Aroclor 1262 (2)	8.394	36415	1.865 ng/ml
50)	Aroclor 1262 (3)	8.644	3542	0.217 ng/ml
51)	Aroclor 1262 (4)	8.816	124784	3.392 ng/ml
52)	Aroclor 1262 (5)	9.134	6861	0.340 ng/ml
53)	Aroclor 1262 (6)	9.592	4733	0.472 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.644	3542	0.389 ng/ml
56)	Aroclor 1268 (2)	9.074	2565	0.060 ng/ml
57)	Aroclor 1268 (3)	9.134	6861	0.200 ng/ml
58)	Aroclor 1268 (4)	9.333	97881	3.203 ng/ml
59)	Aroclor 1268 (5)	9.592	4733	0.428 ng/ml
60)	Aroclor 1268 (6)	9.894	107179	1.296 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F004.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 9:21 am
Operator : MJB/KAK
Sample : 0E18036-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:21:54 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F006.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 1:09 pm
Operator : MJB/KAK
Sample : 0050525-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:22:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 5/18/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.217	37253294	196.637 ng/ml
62) S	DCBP (S)	10.184	77640010	452.191 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.128	11120	1.577 ng/ml
3)	Aroclor 1016 (2)	6.544	8367	0.661 ng/ml
4)	Aroclor 1016 (3)	6.614	1687	0.242 ng/ml
5)	Aroclor 1016 (4)	6.783	7421	1.086 ng/ml
6)	Aroclor 1016 (5)	7.011	4926	0.675 ng/ml
7)	Aroclor 1016 (6)	7.138	22950	4.428 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.571	857303	341.666 ng/ml
10)	Aroclor 1221 (2)	5.726f	11388	7.439 ng/ml
11)	Aroclor 1221 (3)	5.762	39098	7.843 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.762	39098	9.700 ng/ml
14)	Aroclor 1232 (2)	6.544	8367	1.604 ng/ml
15)	Aroclor 1232 (3)	6.614	1687	0.590 ng/ml
16)	Aroclor 1232 (4)	6.783	7421	3.146 ng/ml
17)	Aroclor 1232 (5)	7.011	4926	1.796 ng/ml
18)	Aroclor 1232 (6)	7.138	22950	9.990 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.128	11120	2.159 ng/ml
21)	Aroclor 1242 (2)	6.544	8367	0.868 ng/ml
22)	Aroclor 1242 (3)	6.614	1687	0.325 ng/ml
23)	Aroclor 1242 (4)	6.783	7421	1.565 ng/ml
24)	Aroclor 1242 (5)	7.011	4926	0.904 ng/ml
25)	Aroclor 1242 (6)	7.138	22950	4.902 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.544	8367	1.387 ng/ml
28)	Aroclor 1248 (2)	6.783	7421	0.887 ng/ml
29)	Aroclor 1248 (3)	7.011	4926	0.557 ng/ml
30)	Aroclor 1248 (4)	7.307	2513	0.252 ng/ml
31)	Aroclor 1248 (5)	7.336	5905	0.606 ng/ml
32)	Aroclor 1248 (6)	7.833	16975	2.891 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.336	5905	0.527 ng/ml
35)	Aroclor 1254 (2)	7.452	6470	0.469 ng/ml
36)	Aroclor 1254 (3)	7.833	16975	0.804 ng/ml
37)	Aroclor 1254 (4)	7.974	27023	2.020 ng/ml
38)	Aroclor 1254 (5)	8.394	127102	8.956 ng/ml
39)	Aroclor 1254 (6)	8.679	9002	2.033 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.948	11609	0.816 ng/ml
42)	Aroclor 1260 (2)	8.080	17278	0.939 ng/ml
43)	Aroclor 1260 (3)	8.646	21471	1.604 ng/ml
44)	Aroclor 1260 (4)	8.817	279647	8.533 ng/ml
45)	Aroclor 1260 (5)	9.132	43191	2.218 ng/ml
46)	Aroclor 1260 (6)	9.585	21130	2.948 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F006.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 1:09 pm
Operator : MJB/KAK
Sample : 0050525-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:22:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

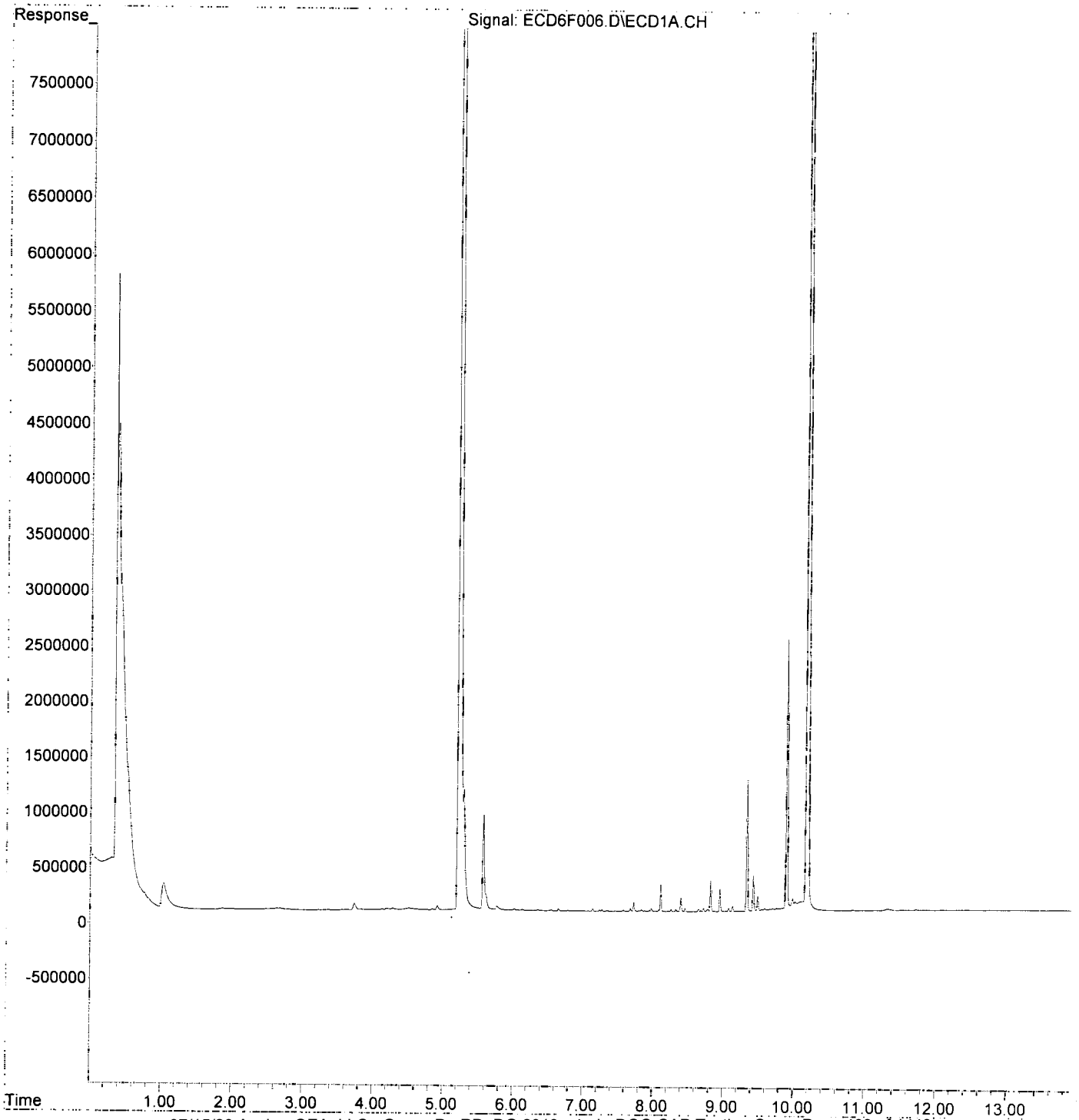
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.080	17278	1.231 ng/ml
49)	Aroclor 1262 (2)	8.394	127102	6.508 ng/ml
50)	Aroclor 1262 (3)	8.646	21471	1.315 ng/ml
51)	Aroclor 1262 (4)	8.817	279647	7.601 ng/ml
52)	Aroclor 1262 (5)	9.132	43191	2.139 ng/ml
53)	Aroclor 1262 (6)	9.585	21130	2.108 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.646	21471	2.355 ng/ml
56)	Aroclor 1268 (2)	9.074	27381	0.644 ng/ml
57)	Aroclor 1268 (3)	9.132	43191	1.262 ng/ml
58)	Aroclor 1268 (4)	9.333	1166910	38.183 ng/ml
59)	Aroclor 1268 (5)	9.585	21130	1.909 ng/ml
60)	Aroclor 1268 (6)	9.894	2433950	29.432 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F006.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 1:09 pm
Operator : MJB/KAK
Sample : 0050525-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:22:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F007.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 1:26 pm
Operator : MJB/KAK
Sample : 0050525-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:22:07 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 5/18/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.217	56438890	297.906	ng/ml
62) S	DCBP (S)	10.182	77698713	452.533	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.125	5938425	842.422	ng/ml
3)	Aroclor 1016 (2)	6.543	13085768	1033.375	ng/ml
4)	Aroclor 1016 (3)	6.626	6435757	923.436	ng/ml
5)	Aroclor 1016 (4)	6.782	6692312	979.182	ng/ml
6)	Aroclor 1016 (5)	7.008	7574556	1038.160	ng/ml
7)	Aroclor 1016 (6)	7.137	5506852	1062.417	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.568	1624400	647.382	ng/ml
10)	Aroclor 1221 (2)	5.682	673421	439.885	ng/ml
11)	Aroclor 1221 (3)	5.763	3147029	631.291	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.763	3147029	780.769	ng/ml
14)	Aroclor 1232 (2)	6.543	13085768	2508.094	ng/ml
15)	Aroclor 1232 (3)	6.626	6435757	2251.954	ng/ml
16)	Aroclor 1232 (4)	6.782	6692312	2837.449	ng/ml
17)	Aroclor 1232 (5)	7.008	7574556	2762.060	ng/ml
18)	Aroclor 1232 (6)	7.137	5506852	2397.080	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.125	5938425	1153.109	ng/ml
21)	Aroclor 1242 (2)	6.543	13085768	1357.874	ng/ml
22)	Aroclor 1242 (3)	6.626	6435757	1240.856	ng/ml
23)	Aroclor 1242 (4)	6.782	6692312	1411.594	ng/ml
24)	Aroclor 1242 (5)	7.008	7574556	1390.150	ng/ml
25)	Aroclor 1242 (6)	7.137	5506852	1176.229	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.543	13085768	2168.986	ng/ml
28)	Aroclor 1248 (2)	6.782	6692312	800.081	ng/ml
29)	Aroclor 1248 (3)	7.008	7574556	856.078	ng/ml
30)	Aroclor 1248 (4)	7.306	1446113	145.225	ng/ml
31)	Aroclor 1248 (5)	7.340	5013355	514.496	ng/ml
32)	Aroclor 1248 (6)	7.833	12809293	2181.723	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.340	5013355	447.357	ng/ml
35)	Aroclor 1254 (2)	7.450	5925460	429.207	ng/ml
36)	Aroclor 1254 (3)	7.833	12809293	606.774	ng/ml
37)	Aroclor 1254 (4)	7.995	1682679	125.782	ng/ml
38)	Aroclor 1254 (5)	8.381	17660622	1244.440	ng/ml
39)	Aroclor 1254 (6)	8.678	1722932	389.014	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.947	16396744	1152.609	ng/ml
42)	Aroclor 1260 (2)	8.082	21989997	1195.176	ng/ml
43)	Aroclor 1260 (3)	8.647	16233617	1212.427	ng/ml
44)	Aroclor 1260 (4)	8.819	44029954	1343.483	ng/ml
45)	Aroclor 1260 (5)	9.131	26116922	1341.219	ng/ml
46)	Aroclor 1260 (6)	9.583	9267016	1292.872	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

979.83

1256.30

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F007.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 1:26 pm
Operator : MJB/KAK
Sample : 0050525-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:22:07 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

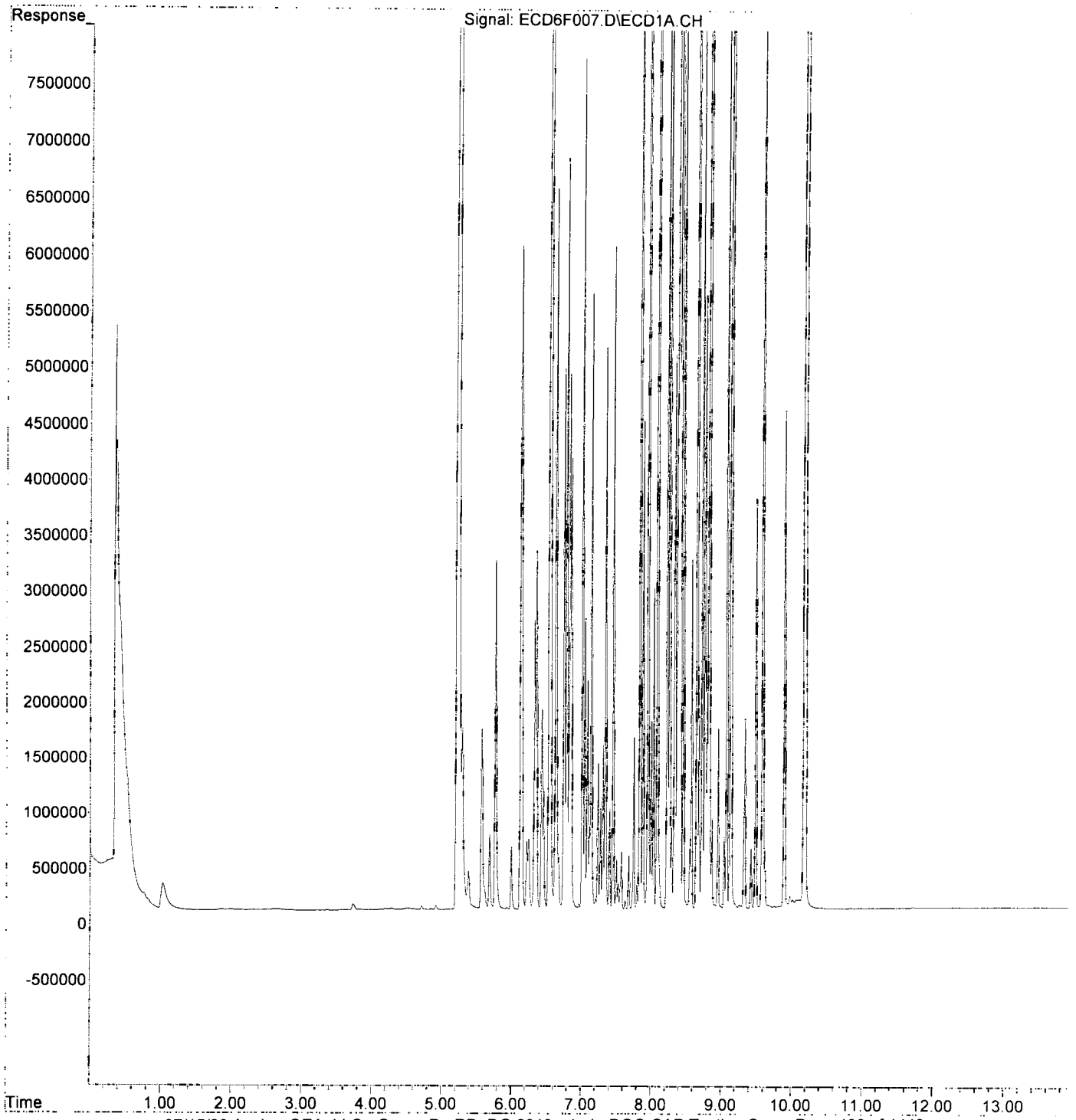
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.082	21989997	1566.164	ng/ml
49)	Aroclor 1262 (2)	8.410	17333461	887.567	ng/ml
50)	Aroclor 1262 (3)	8.647	16233617	994.545	ng/ml
51)	Aroclor 1262 (4)	8.819	44029954	1196.746	ng/ml
52)	Aroclor 1262 (5)	9.131	26116922	1293.399	ng/ml
53)	Aroclor 1262 (6)	9.583	9267016	924.630	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.647	16233617	1780.697	ng/ml
56)	Aroclor 1268 (2)	9.073	8761120	205.958	ng/ml
57)	Aroclor 1268 (3)	9.131	26116922	762.968	ng/ml
58)	Aroclor 1268 (4)	9.330	1703932	55.755	ng/ml
59)	Aroclor 1268 (5)	9.583	9267016	837.303	ng/ml
60)	Aroclor 1268 (6)	9.893	4455873	53.881	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F007.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 1:26 pm
Operator : MJB/KAK
Sample : 0050525-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:22:07 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F008.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 1:44 pm
Operator : MJB/KAK
Sample : 0050525-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:22:14 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Q19

MJB 5/18/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.216	102550860	541.303	ng/ml
62) S	DCBP (S)	10.180	74432691	433.511	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.125	7551240	1071.215	ng/ml
3)	Aroclor 1016 (2)	6.544	16010501	1264.340	ng/ml
4)	Aroclor 1016 (3)	6.626	7943832	1139.823	ng/ml
5)	Aroclor 1016 (4)	6.783	7874605	1152.169	ng/ml
6)	Aroclor 1016 (5)	7.008	8918101	1222.305	ng/ml
7)	Aroclor 1016 (6)	7.136	6229584	1201.851	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.566	2336445	931.158	ng/ml
10)	Aroclor 1221 (2)	5.681	845887	552.542	ng/ml
11)	Aroclor 1221 (3)	5.762	4602868	923.331	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.762	4602868	1141.959	ng/ml
14)	Aroclor 1232 (2)	6.544	16010501	3068.665	ng/ml
15)	Aroclor 1232 (3)	6.626	7943832	2779.649	ng/ml
16)	Aroclor 1232 (4)	6.783	7874605	3338.725	ng/ml
17)	Aroclor 1232 (5)	7.008	8918101	3251.983	ng/ml
18)	Aroclor 1232 (6)	7.136	6229584	2711.677	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.125	7551240	1466.281	ng/ml
21)	Aroclor 1242 (2)	6.544	16010501	1661.366	ng/ml
22)	Aroclor 1242 (3)	6.626	7943832	1531.623	ng/ml
23)	Aroclor 1242 (4)	6.783	7874605	1660.972	ng/ml
24)	Aroclor 1242 (5)	7.008	8918101	1636.729	ng/ml
25)	Aroclor 1242 (6)	7.136	6229584	1330.600	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.544	16010501	2653.765	ng/ml
28)	Aroclor 1248 (2)	6.783	7874605	941.427	ng/ml
29)	Aroclor 1248 (3)	7.008	8918101	1007.926	ng/ml
30)	Aroclor 1248 (4)	7.306	1579582	158.629	ng/ml
31)	Aroclor 1248 (5)	7.340	5811595	596.416	ng/ml
32)	Aroclor 1248 (6)	7.833	13772324	2345.750	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.340	5811595	518.587	ng/ml
35)	Aroclor 1254 (2)	7.449	6442931	466.689	ng/ml
36)	Aroclor 1254 (3)	7.833	13772324	652.393	ng/ml
37)	Aroclor 1254 (4)	7.995	1786563	133.548	ng/ml
38)	Aroclor 1254 (5)	8.381	18320800	1290.959	ng/ml
39)	Aroclor 1254 (6)	8.678	1846731	416.967	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.946	17755499	1248.123	ng/ml
42)	Aroclor 1260 (2)	8.081	23907316	1299.384	ng/ml
43)	Aroclor 1260 (3)	8.647	17387023	1298.571	ng/ml
44)	Aroclor 1260 (4)	8.818	46274192	1411.961	ng/ml
45)	Aroclor 1260 (5)	9.130	26267868	1348.970	ng/ml
46)	Aroclor 1260 (6)	9.582	9565177	1334.469	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

1175.28

1323.58

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F008.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 1:44 pm
Operator : MJB/KAK
Sample : 0050525-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:22:14 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

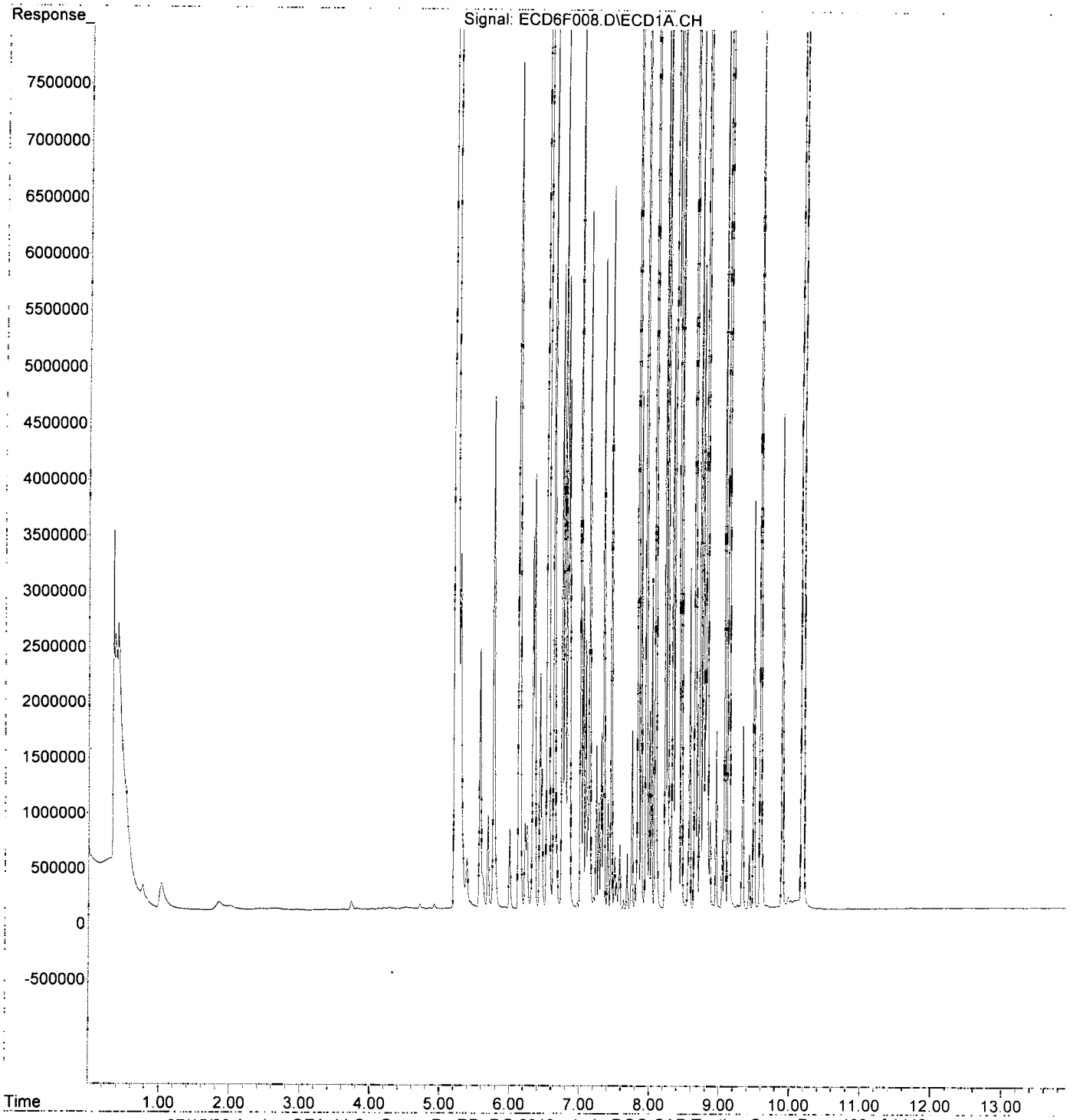
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.081	23907316	1702.719	ng/ml
49)	Aroclor 1262 (2)	8.409	17425625	892.286	ng/ml
50)	Aroclor 1262 (3)	8.647	17387023	1065.208	ng/ml
51)	Aroclor 1262 (4)	8.818	46274192	1257.745	ng/ml
52)	Aroclor 1262 (5)	9.130	26267868	1300.874	ng/ml
53)	Aroclor 1262 (6)	9.582	9565177	954.380	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.647	17387023	1907.216	ng/ml
56)	Aroclor 1268 (2)	9.072	8751488	205.731	ng/ml
57)	Aroclor 1268 (3)	9.130	26267868	767.378	ng/ml
58)	Aroclor 1268 (4)	9.330	1655155	54.159	ng/ml
59)	Aroclor 1268 (5)	9.582	9565177	864.243	ng/ml
60)	Aroclor 1268 (6)	9.892	4445404	53.755	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F008.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 1:44 pm
Operator : MJB/KAK
Sample : 0050525-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:22:14 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F016.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 4:06 pm
Operator : MJB/KAK
Sample : 0E18036-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:23:07 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 5/18/20.

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.215	55106061	290.871	ng/ml
62) S	DCBP (S)	10.180	49945675	290.894	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.125	3923013	556.516	ng/ml
3)	Aroclor 1016 (2)	6.543	7464802	589.491	ng/ml
4)	Aroclor 1016 (3)	6.626	4081116	585.580	ng/ml
5)	Aroclor 1016 (4)	6.782	4076647	596.473	ng/ml
6)	Aroclor 1016 (5)	7.009	4381478	600.520	ng/ml
7)	Aroclor 1016 (6)	7.137	3269463	630.766	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.567	1273665	507.602	ng/ml
10)	Aroclor 1221 (2)	5.682	440113	287.486	ng/ml
11)	Aroclor 1221 (3)	5.763	1986145	398.419	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.763	1986145	492.757	ng/ml
14)	Aroclor 1232 (2)	6.543	7464802	1430.747	ng/ml
15)	Aroclor 1232 (3)	6.626	4081116	1428.035	ng/ml
16)	Aroclor 1232 (4)	6.782	4076647	1728.443	ng/ml
17)	Aroclor 1232 (5)	7.009	4381478	1597.705	ng/ml
18)	Aroclor 1232 (6)	7.137	3269463	1423.166	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.125	3923013	761.761	ng/ml
21)	Aroclor 1242 (2)	6.543	7464802	774.602	ng/ml
22)	Aroclor 1242 (3)	6.626	4081116	786.866	ng/ml
23)	Aroclor 1242 (4)	6.782	4076647	859.878	ng/ml
24)	Aroclor 1242 (5)	7.009	4381478	804.128	ng/ml
25)	Aroclor 1242 (6)	7.137	3269463	698.337	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.543	7464802	1237.302	ng/ml
28)	Aroclor 1248 (2)	6.782	4076647	487.372	ng/ml
29)	Aroclor 1248 (3)	7.009	4381478	495.196	ng/ml
30)	Aroclor 1248 (4)	7.306	756216	75.943	ng/ml
31)	Aroclor 1248 (5)	7.339	2837131	291.161	ng/ml
32)	Aroclor 1248 (6)	7.833	6984935	1189.698	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.339	2837131	253.166	ng/ml
35)	Aroclor 1254 (2)	7.450	3254540	235.740	ng/ml
36)	Aroclor 1254 (3)	7.833	6984935	330.875	ng/ml
37)	Aroclor 1254 (4)	7.996	840421	62.822	ng/ml
38)	Aroclor 1254 (5)	8.381	8709999	613.742	ng/ml
39)	Aroclor 1254 (6)	8.678	922192	208.218	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.946	8495706	597.206	ng/ml
42)	Aroclor 1260 (2)	8.081	11092593	602.892	ng/ml
43)	Aroclor 1260 (3)	8.646	8169137	610.122	ng/ml
44)	Aroclor 1260 (4)	8.817	21092490	643.594	ng/ml
45)	Aroclor 1260 (5)	9.130	12344972	633.968	ng/ml
46)	Aroclor 1260 (6)	9.582	4441944	619.710	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Q-41 598.22 Q-41 617.92

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F016.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 4:06 pm
Operator : MJB/KAK
Sample : 0E18036-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:23:07 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

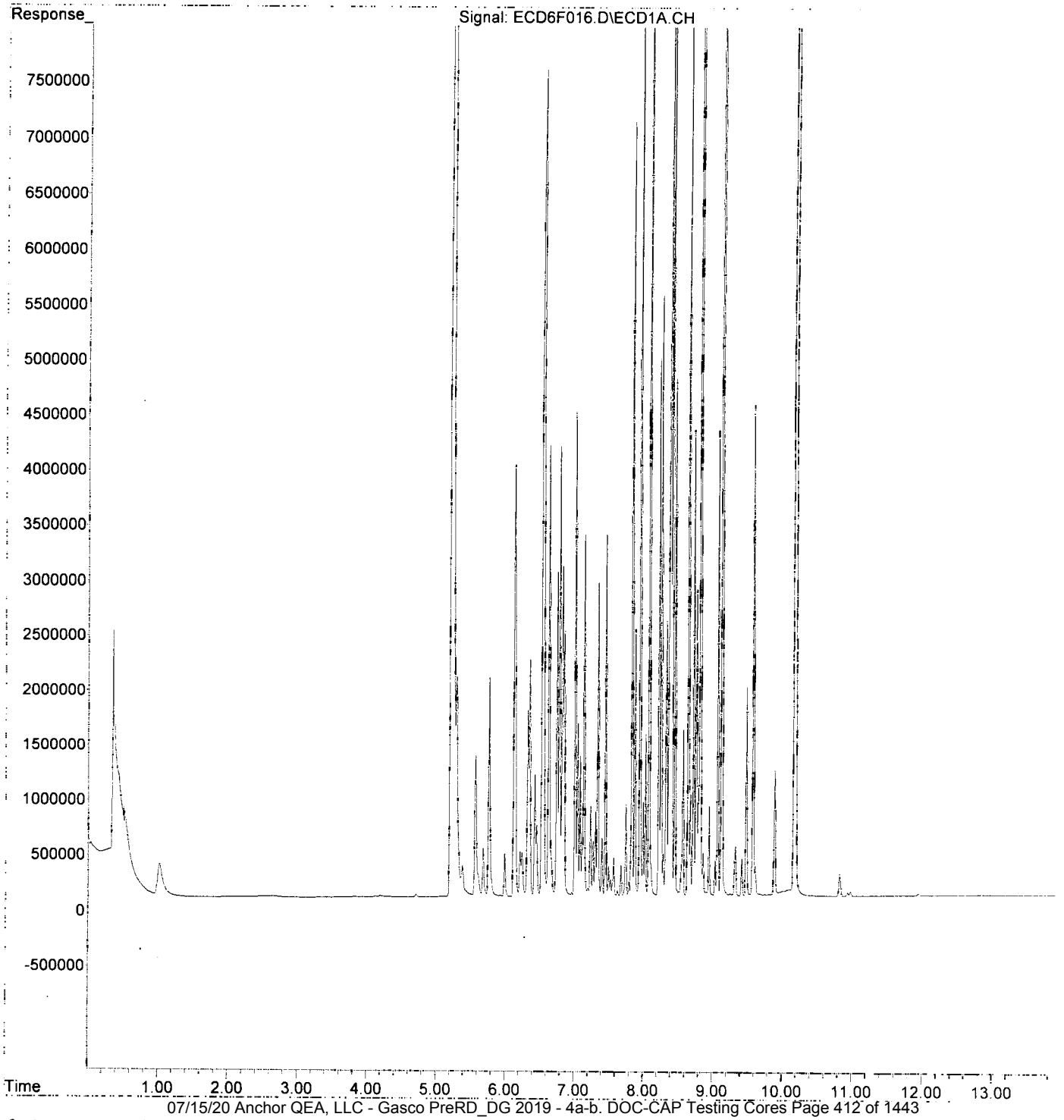
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.081	11092593	790.033	ng/ml
49)	Aroclor 1262 (2)	8.408	8568053	438.731	ng/ml
50)	Aroclor 1262 (3)	8.646	8169137	500.479	ng/ml
51)	Aroclor 1262 (4)	8.817	21092490	573.300	ng/ml
52)	Aroclor 1262 (5)	9.130	12344972	611.365	ng/ml
53)	Aroclor 1262 (6)	9.582	4441944	443.202	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.646	8169137	896.088	ng/ml
56)	Aroclor 1268 (2)	9.072	4216281	99.117	ng/ml
57)	Aroclor 1268 (3)	9.130	12344972	360.640	ng/ml
58)	Aroclor 1268 (4)	9.329	442016	14.463	ng/ml
59)	Aroclor 1268 (5)	9.582	4441944	401.343	ng/ml
60)	Aroclor 1268 (6)	9.892	1123774	13.589	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F016.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 4:06 pm
Operator : MJB/KAK
Sample : 0E18036-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:23:07 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F017.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 4:24 pm
Operator : MJB/KAK
Sample : 0E18036-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:39:32 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 5/18/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.213	20207989	106.666	ng/ml
62) S	DCBP (S)	10.179	19018936	110.770	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	3100	0.440	ng/ml
3)	Aroclor 1016 (2)	6.530	2775	0.219	ng/ml
4)	Aroclor 1016 (3)	6.622	2091	0.300	ng/ml
5)	Aroclor 1016 (4)	6.780	2131	0.312	ng/ml
6)	Aroclor 1016 (5)	7.000	1823	0.250	ng/ml
7)	Aroclor 1016 (6)	7.137	5860	1.131	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.569	416769	166.098	ng/ml
10)	Aroclor 1221 (2)	5.699	12607	8.235	ng/ml
11)	Aroclor 1221 (3)	5.758	10321	2.070	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.758	10321	2.561	ng/ml
14)	Aroclor 1232 (2)	6.530	2775	0.532	ng/ml
15)	Aroclor 1232 (3)	6.622	2091	0.732	ng/ml
16)	Aroclor 1232 (4)	6.780	2131	0.904	ng/ml
17)	Aroclor 1232 (5)	7.014	2303	0.840	ng/ml
18)	Aroclor 1232 (6)	7.137	5860	2.551	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.122	3100	0.602	ng/ml
21)	Aroclor 1242 (2)	6.530	2775	0.288	ng/ml
22)	Aroclor 1242 (3)	6.622	2091	0.403	ng/ml
23)	Aroclor 1242 (4)	6.780	2131	0.450	ng/ml
24)	Aroclor 1242 (5)	7.014	2303	0.423	ng/ml
25)	Aroclor 1242 (6)	7.137	5860	1.252	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.530	2775	0.460	ng/ml
28)	Aroclor 1248 (2)	6.780	2131	0.255	ng/ml
29)	Aroclor 1248 (3)	7.014	2303	0.260	ng/ml
30)	Aroclor 1248 (4)	7.313	1218	0.122	ng/ml
31)	Aroclor 1248 (5)	7.345	995	0.102	ng/ml
32)	Aroclor 1248 (6)	7.831	6444	1.098	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.339	915	0.082	ng/ml
35)	Aroclor 1254 (2)	7.456	1635	0.118	ng/ml
36)	Aroclor 1254 (3)	7.831	6444	0.305	ng/ml
37)	Aroclor 1254 (4)	7.995	2923	0.218	ng/ml
38)	Aroclor 1254 (5)	8.367	1772	0.125	ng/ml
39)	Aroclor 1254 (6)	8.678	3100	0.700	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.945	3328	0.234	ng/ml
42)	Aroclor 1260 (2)	8.079	3818	0.208	ng/ml
43)	Aroclor 1260 (3)	8.644	2853	0.213	ng/ml
44)	Aroclor 1260 (4)	8.816	111220	3.394	ng/ml
45)	Aroclor 1260 (5)	9.131	6846	0.352	ng/ml
46)	Aroclor 1260 (6)	9.588	4909	0.685	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F017.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 4:24 pm
Operator : MJB/KAK
Sample : 0E18036-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:39:32 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

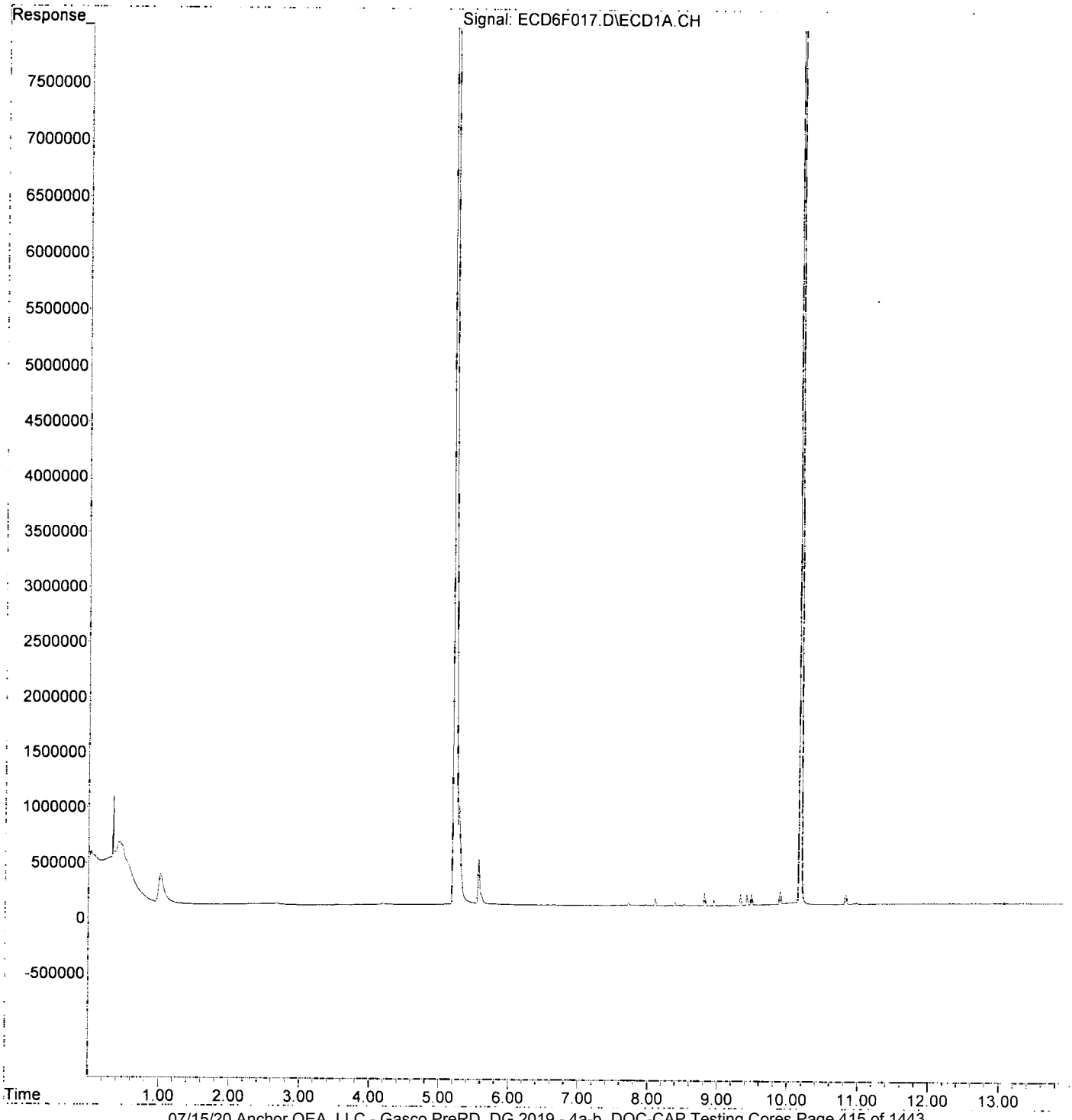
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.079	3818	0.272 ng/ml
49)	Aroclor 1262 (2)	8.393	32524	1.665 ng/ml
50)	Aroclor 1262 (3)	8.644	2853	0.175 ng/ml
51)	Aroclor 1262 (4)	8.816	111220	3.023 ng/ml
52)	Aroclor 1262 (5)	9.131	6846	0.339 ng/ml
53)	Aroclor 1262 (6)	9.588	4909	0.490 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.644	2853	0.313 ng/ml
56)	Aroclor 1268 (2)	9.075	2981	0.070 ng/ml
57)	Aroclor 1268 (3)	9.131	6846	0.200 ng/ml
58)	Aroclor 1268 (4)	9.331	101691	3.327 ng/ml
59)	Aroclor 1268 (5)	9.588	4909	0.444 ng/ml
60)	Aroclor 1268 (6)	9.893	119083	1.440 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F017.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 4:24 pm
Operator : MJB/KAK
Sample : 0E18036-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 18 16:39:32 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F019.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 4:59 pm
Operator : MJB/KAK
Sample : 0050585-BLK1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:05 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

5/20/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	5.216	43732501	230.837	ng/ml	
62)	S DCBP (S)	10.179	44733004	260.534	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	6.129	11732	1.664	ng/ml	
3)	Aroclor 1016 (2)	6.546	18980	1.499	ng/ml	
4)	Aroclor 1016 (3)	6.602	3355	0.481	ng/ml	
5)	Aroclor 1016 (4)	6.781	7941	1.162	ng/ml	
6)	Aroclor 1016 (5)	7.006	6568	0.900	ng/ml	
7)	Aroclor 1016 (6)	7.136	12979	2.504	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.570	870618	346.973	ng/ml	
10)	Aroclor 1221 (2)	5.710	14935	9.756	ng/ml	N.P.M.
11)	Aroclor 1221 (3)	5.761	134093	26.899	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.761	134093	33.268	ng/ml	
14)	Aroclor 1232 (2)	6.546	18980	3.638	ng/ml	
15)	Aroclor 1232 (3)	6.645	10336	3.617	ng/ml	
16)	Aroclor 1232 (4)	6.781	7941	3.367	ng/ml	
17)	Aroclor 1232 (5)	7.006	6568	2.395	ng/ml	
18)	Aroclor 1232 (6)	7.136	12979	5.650	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	6.129	11732	2.278	ng/ml	
21)	Aroclor 1242 (2)	6.546	18980	1.970	ng/ml	
22)	Aroclor 1242 (3)	6.645	10336	1.993	ng/ml	
23)	Aroclor 1242 (4)	6.781	7941	1.675	ng/ml	
24)	Aroclor 1242 (5)	7.006	6568	1.205	ng/ml	
25)	Aroclor 1242 (6)	7.136	12979	2.772	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.546	18980	3.146	ng/ml	
28)	Aroclor 1248 (2)	6.781	7941	0.949	ng/ml	
29)	Aroclor 1248 (3)	7.006	6568	0.742	ng/ml	
30)	Aroclor 1248 (4)	7.307	4332	0.435	ng/ml	
31)	Aroclor 1248 (5)	7.337	6506	0.668	ng/ml	
32)	Aroclor 1248 (6)	7.830	12519	2.132	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	7.337	6506	0.581	ng/ml	
35)	Aroclor 1254 (2)	7.450	5924	0.429	ng/ml	
36)	Aroclor 1254 (3)	7.830	12519	0.593	ng/ml	
37)	Aroclor 1254 (4)	7.995	4024	0.301	ng/ml	
38)	Aroclor 1254 (5)	8.392	65076	4.586	ng/ml	
39)	Aroclor 1254 (6)	8.678	3604	0.814	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	7.946	8965	0.630	ng/ml	
42)	Aroclor 1260 (2)	8.079	12320	0.670	ng/ml	
43)	Aroclor 1260 (3)	8.644	10385	0.776	ng/ml	
44)	Aroclor 1260 (4)	8.815	126154	3.849	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F019.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 4:59 pm
Operator : MJB/KAK
Sample : 0050585-BLK1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:05 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.130	21797	1.119 ng/ml
46)	Aroclor 1260 (6)	9.585	10777	1.504 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.079	12320	0.877 ng/ml
49)	Aroclor 1262 (2)	8.392	65076	3.332 ng/ml
50)	Aroclor 1262 (3)	8.644	10385	0.636 ng/ml
51)	Aroclor 1262 (4)	8.815	126154	3.429 ng/ml
52)	Aroclor 1262 (5)	9.130	21797	1.079 ng/ml
53)	Aroclor 1262 (6)	9.585	10777	1.075 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.644	10385	1.139 ng/ml
56)	Aroclor 1268 (2)	9.072	14964	0.352 ng/ml
57)	Aroclor 1268 (3)	9.130	21797	0.637 ng/ml
58)	Aroclor 1268 (4)	9.330	741820	24.273 ng/ml
59)	Aroclor 1268 (5)	9.585	10777	0.974 ng/ml
60)	Aroclor 1268 (6)	9.891	1536244	18.577 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

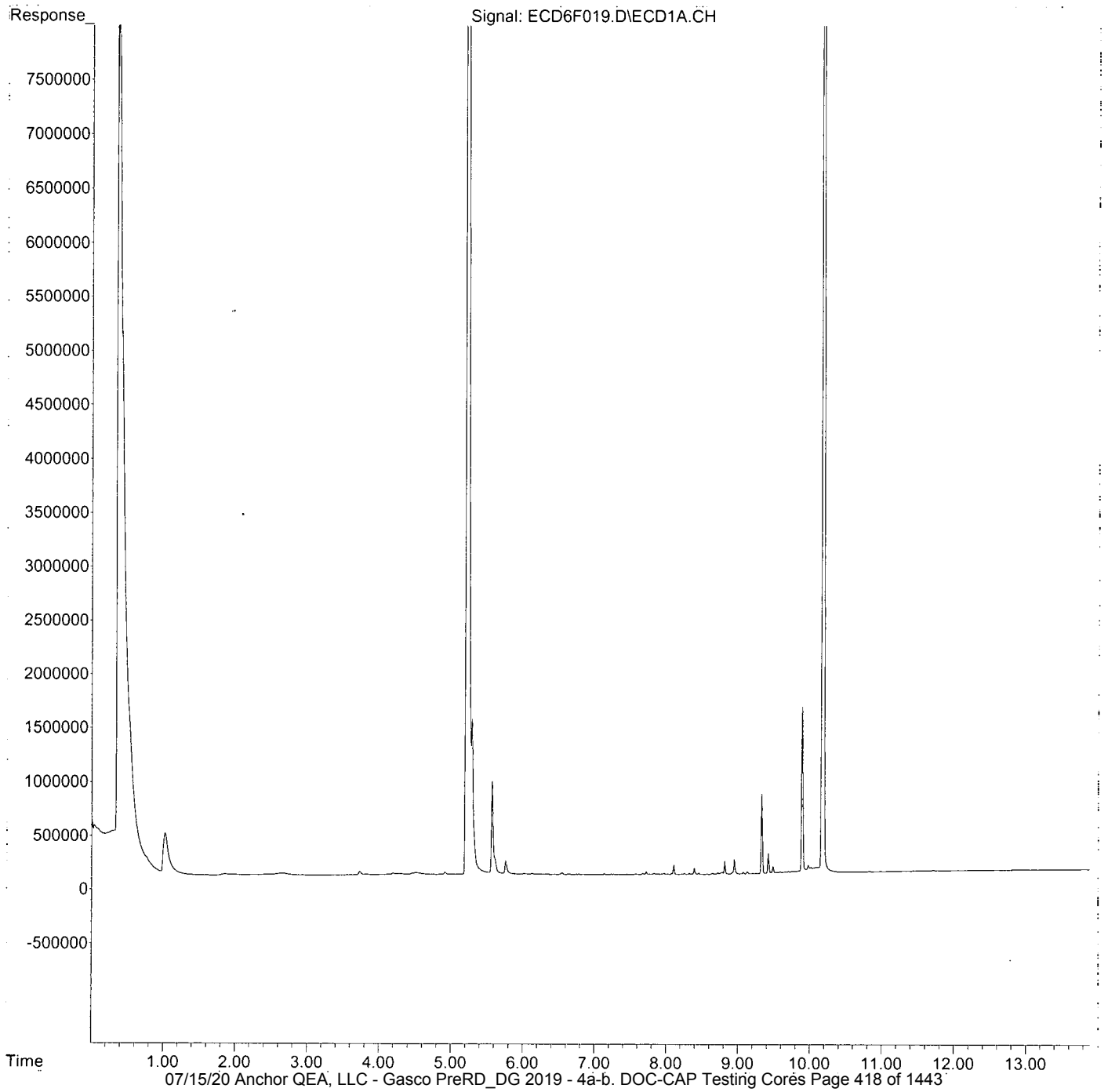
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F019.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 4:59 pm
Operator : MJB/KAK
Sample : 0050585-BLK1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:05 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F020.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 5:17 pm
Operator : MJB/KAK
Sample : 0050585-BS1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:22 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

5/20/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.215	43825377	231.327	ng/ml
62)	S DCBP (S)	10.179	45704875	266.194	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.125	7414616	1051.833	ng/ml
3)	Aroclor 1016 (2)	6.543	15357328	1212.759	ng/ml
4)	Aroclor 1016 (3)	6.626	7854430	1126.995	ng/ml
5)	Aroclor 1016 (4)	6.782	7696106	1126.052	ng/ml
6)	Aroclor 1016 (5)	7.008	8414889	1153.335	ng/ml
7)	Aroclor 1016 (6)	7.136	6042415	1165.741	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.566	1457406	580.829	ng/ml
10)	Aroclor 1221 (2)	5.682	794396	518.908	ng/ml
11)	Aroclor 1221 (3)	5.763	3705805	743.381	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.763	3705805	919.400	ng/ml
14)	Aroclor 1232 (2)	6.543	15357328	2943.474	ng/ml
15)	Aroclor 1232 (3)	6.626	7854430	2748.366	ng/ml
16)	Aroclor 1232 (4)	6.782	7696106	3263.044	ng/ml
17)	Aroclor 1232 (5)	7.008	8414889	3068.487	ng/ml
18)	Aroclor 1232 (6)	7.136	6042415	2630.205	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.125	7414616	1439.752	ng/ml
21)	Aroclor 1242 (2)	6.543	15357328	1593.588	ng/ml
22)	Aroclor 1242 (3)	6.626	7854430	1514.386	ng/ml
23)	Aroclor 1242 (4)	6.782	7696106	1623.322	ng/ml
24)	Aroclor 1242 (5)	7.008	8414889	1544.375	ng/ml
25)	Aroclor 1242 (6)	7.136	6042415	1290.622	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.543	15357328	2545.501	ng/ml
28)	Aroclor 1248 (2)	6.782	7696106	920.087	ng/ml
29)	Aroclor 1248 (3)	7.008	8414889	951.053	ng/ml
30)	Aroclor 1248 (4)	7.305	1635314	164.226	ng/ml
31)	Aroclor 1248 (5)	7.339	5775626	592.725	ng/ml
32)	Aroclor 1248 (6)	7.832	14107368	2402.815	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.339	5775626	515.377	ng/ml
35)	Aroclor 1254 (2)	7.449	6512895	471.757	ng/ml
36)	Aroclor 1254 (3)	7.832	14107368	668.264	ng/ml
37)	Aroclor 1254 (4)	7.995	1804229	134.868	ng/ml
38)	Aroclor 1254 (5)	8.380	18312597	1290.381	ng/ml
39)	Aroclor 1254 (6)	8.677	1728479	390.267	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.946	17832511	1253.536	ng/ml
42)	Aroclor 1260 (2)	8.080	23138428	1257.594	ng/ml
43)	Aroclor 1260 (3)	8.646	16419996	1226.347	ng/ml
44)	Aroclor 1260 (4)	8.818	46285105	1412.294	ng/ml

Q-41
No Q-41 on GC6

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F020.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 5:17 pm
Operator : MJB/KAK
Sample : 0050585-BS1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:22 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.130	25052195	1286.540	ng/ml
46)	Aroclor 1260 (6)	9.583	9224713	1286.970	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.080	23138428	1647.957	ng/ml
49)	Aroclor 1262 (2)	8.409	17234490	882.499	ng/ml
50)	Aroclor 1262 (3)	8.646	16419996	1005.964	ng/ml
51)	Aroclor 1262 (4)	8.818	46285105	1258.042	ng/ml
52)	Aroclor 1262 (5)	9.130	25052195	1240.670	ng/ml
53)	Aroclor 1262 (6)	9.583	9224713	920.410	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.646	16419996	1801.141	ng/ml
56)	Aroclor 1268 (2)	9.073	8766942	206.094	ng/ml
57)	Aroclor 1268 (3)	9.130	25052195	731.864	ng/ml
58)	Aroclor 1268 (4)	9.329	1256517	41.115	ng/ml
59)	Aroclor 1268 (5)	9.583	9224713	833.481	ng/ml
60)	Aroclor 1268 (6)	9.892	3528668	42.669	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

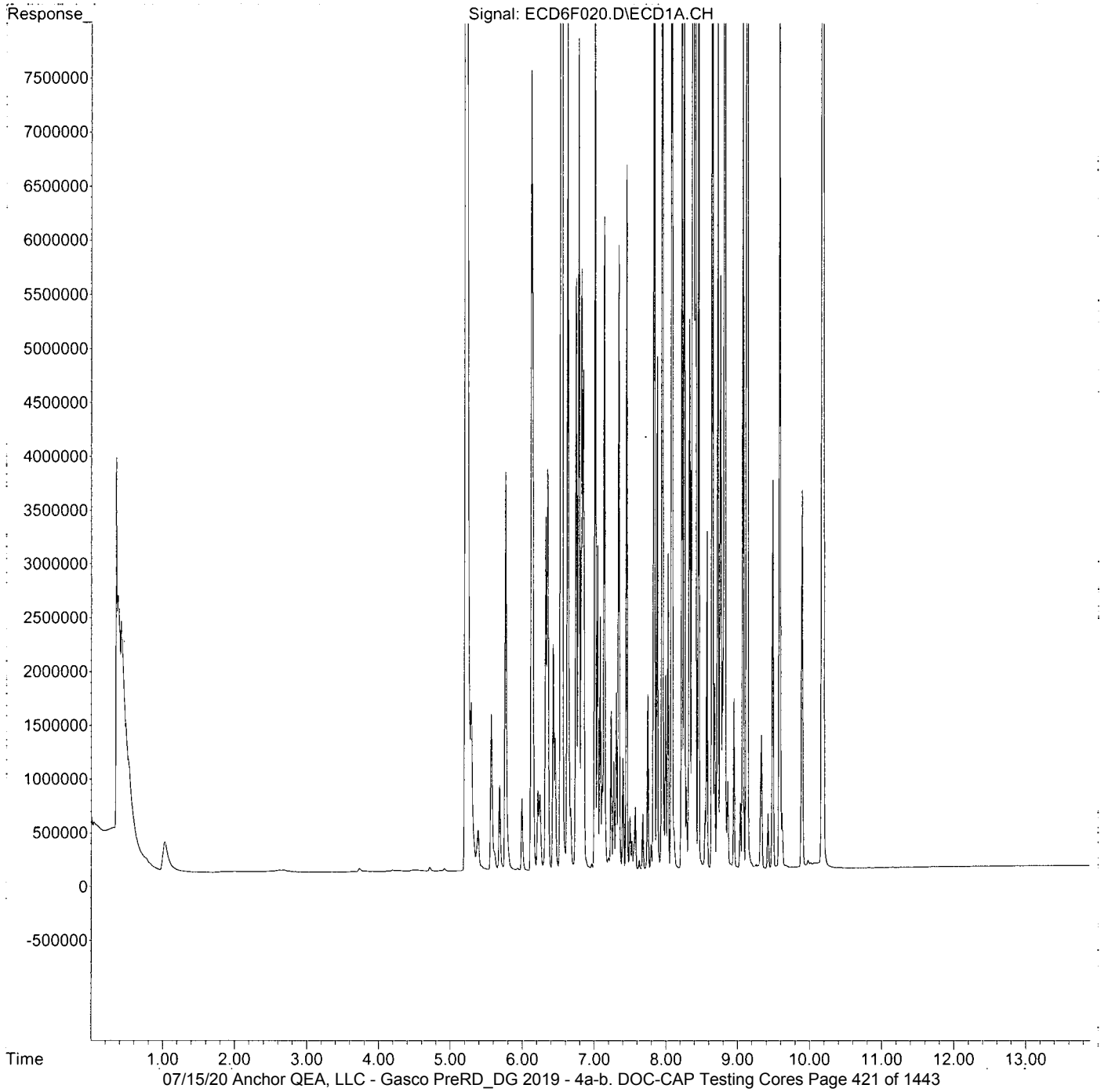
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F020.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 5:17 pm
Operator : MJB/KAK
Sample : 0050585-BS1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:22 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F021.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 5:35 pm
Operator : MJB/KAK
Sample : 0050585-BSD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:39 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

5/20/20

Q-19

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.217	45013152	237.597	ng/ml
62)	S	DCBP (S)	10.180	46148526	268.778	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.126	7562268	1072.779	ng/ml
3)		Aroclor 1016 (2)	6.544	15846891	1251.420	ng/ml
4)		Aroclor 1016 (3)	6.628	8265226	1185.938	ng/ml
5)		Aroclor 1016 (4)	6.783	8208468	1201.018	ng/ml
6)		Aroclor 1016 (5)	7.009	9062715	1242.125	ng/ml
7)		Aroclor 1016 (6)	7.138	6430624	1240.637	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.568	1497389	596.764	ng/ml
10)		Aroclor 1221 (2)	5.683	826962	540.180	ng/ml
11)		Aroclor 1221 (3)	5.765	3891984	780.729	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.765	3891984	965.590	ng/ml
14)		Aroclor 1232 (2)	6.544	15846891	3037.307	ng/ml
15)		Aroclor 1232 (3)	6.628	8265226	2892.109	ng/ml
16)		Aroclor 1232 (4)	6.783	8208468	3480.279	ng/ml
17)		Aroclor 1232 (5)	7.009	9062715	3304.717	ng/ml
18)		Aroclor 1232 (6)	7.138	6430624	2799.188	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.126	7562268	1468.422	ng/ml
21)		Aroclor 1242 (2)	6.544	15846891	1644.389	ng/ml
22)		Aroclor 1242 (3)	6.628	8265226	1593.590	ng/ml
23)		Aroclor 1242 (4)	6.783	8208468	1731.393	ng/ml
24)		Aroclor 1242 (5)	7.009	9062715	1663.270	ng/ml
25)		Aroclor 1242 (6)	7.138	6430624	1373.541	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.544	15846891	2626.646	ng/ml
28)		Aroclor 1248 (2)	6.783	8208468	981.341	ng/ml
29)		Aroclor 1248 (3)	7.009	9062715	1024.270	ng/ml
30)		Aroclor 1248 (4)	7.306	1639557	164.652	ng/ml
31)		Aroclor 1248 (5)	7.340	5885282	603.978	ng/ml
32)		Aroclor 1248 (6)	7.834	14563778	2480.553	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.340	5885282	525.162	ng/ml
35)		Aroclor 1254 (2)	7.450	6788855	491.746	ng/ml
36)		Aroclor 1254 (3)	7.834	14563778	689.884	ng/ml
37)		Aroclor 1254 (4)	7.995	1871891	139.926	ng/ml
38)		Aroclor 1254 (5)	8.380	18844327	1327.848	ng/ml
39)		Aroclor 1254 (6)	8.678	1822381	411.469	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.947	18911038	1329.351	ng/ml
42)		Aroclor 1260 (2)	8.081	25083429	1363.306	ng/ml
43)		Aroclor 1260 (3)	8.647	17537294	1309.794	ng/ml
44)		Aroclor 1260 (4)	8.818	48558330	1481.657	ng/ml

Q-41
No Q-41 on 608

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F021.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 5:35 pm
Operator : MJB/KAK
Sample : 0050585-BSD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:39 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.131	27740534	1424.598	ng/ml
46)	Aroclor 1260 (6)	9.583	10058270	1403.262	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.081	25083429	1786.483	ng/ml
49)	Aroclor 1262 (2)	8.409	18387676	941.548	ng/ml
50)	Aroclor 1262 (3)	8.647	17537294	1074.415	ng/ml
51)	Aroclor 1262 (4)	8.818	48558330	1319.828	ng/ml
52)	Aroclor 1262 (5)	9.131	27740534	1373.805	ng/ml
53)	Aroclor 1262 (6)	9.583	10058270	1003.579	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.647	17537294	1923.699	ng/ml
56)	Aroclor 1268 (2)	9.073	9140427	214.874	ng/ml
57)	Aroclor 1268 (3)	9.131	27740534	810.399	ng/ml
58)	Aroclor 1268 (4)	9.330	1227511	40.166	ng/ml
59)	Aroclor 1268 (5)	9.583	10058270	908.796	ng/ml
60)	Aroclor 1268 (6)	9.893	3410079	41.235	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

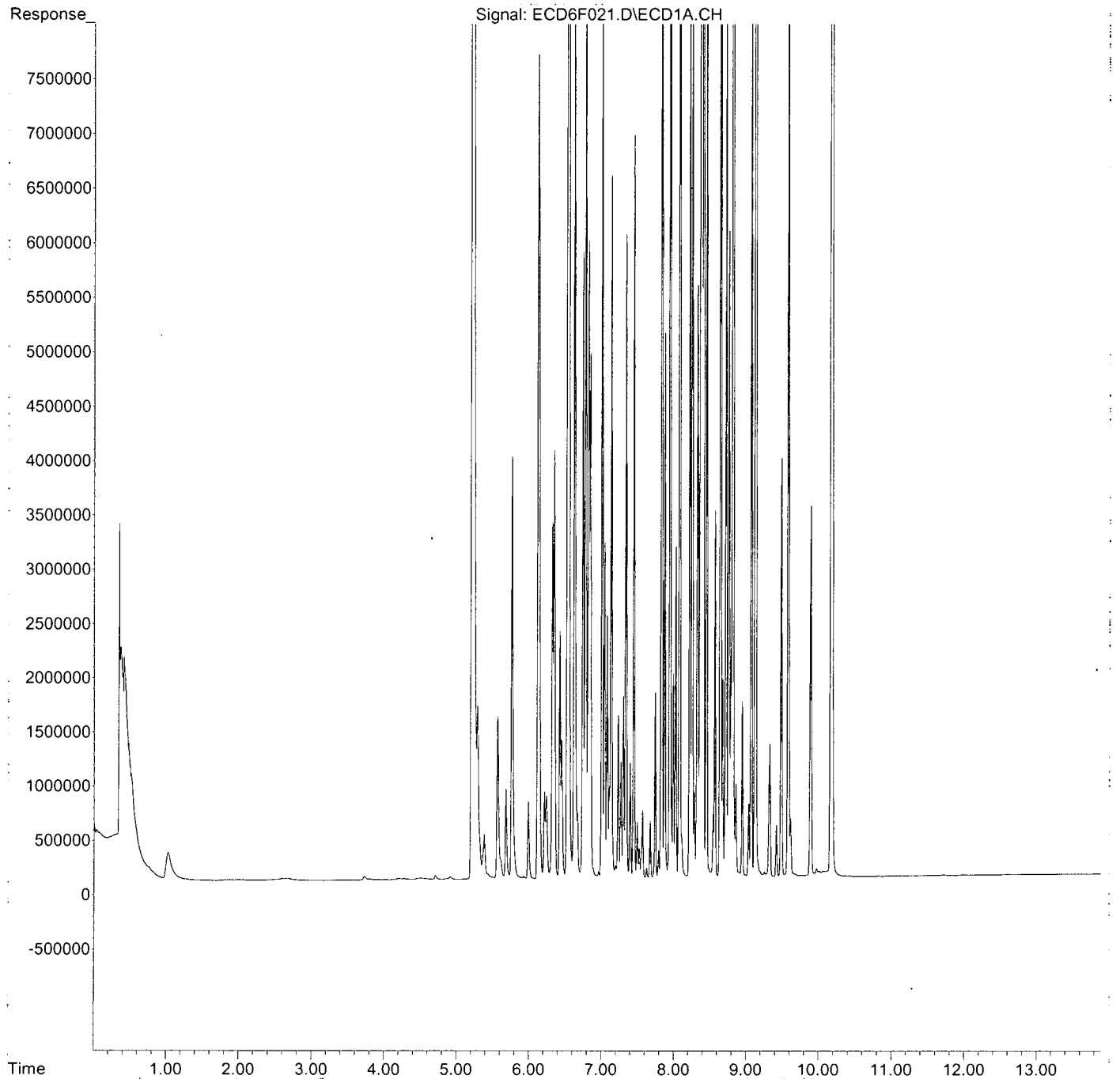
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F021.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 5:35 pm
Operator : MJB/KAK
Sample : 0050585-BSD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:39 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F022.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 5:52 pm
Operator : MJB/KAK
Sample : A0E0347-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:57 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

5/20/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.216	34325045	181.181 ng/ml
62)	S DCBP (S)	10.178	45242957	263.504 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.131	10664	1.513 ng/ml
3)	Aroclor 1016 (2)	6.550	14107	1.114 ng/ml
4)	Aroclor 1016 (3)	6.612	3109	0.446 ng/ml
5)	Aroclor 1016 (4)	6.782	6402	0.937 ng/ml
6)	Aroclor 1016 (5)	7.012	5158	0.707 ng/ml
7)	Aroclor 1016 (6)	7.137	11633	2.244 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.571	723904	288.502 ng/ml
10)	Aroclor 1221 (2)	5.705	14548	9.503 ng/ml
11)	Aroclor 1221 (3)	5.762	28248	5.666 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.762	28248	7.008 ng/ml
14)	Aroclor 1232 (2)	6.550	14107	2.704 ng/ml
15)	Aroclor 1232 (3)	6.612	3109	1.088 ng/ml
16)	Aroclor 1232 (4)	6.782	6402	2.714 ng/ml
17)	Aroclor 1232 (5)	7.012	5158	1.881 ng/ml
18)	Aroclor 1232 (6)	7.137	11633	5.064 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.131	10664	2.071 ng/ml
21)	Aroclor 1242 (2)	6.550	14107	1.464 ng/ml
22)	Aroclor 1242 (3)	6.612	3109	0.599 ng/ml
23)	Aroclor 1242 (4)	6.782	6402	1.350 ng/ml
24)	Aroclor 1242 (5)	7.012	5158	0.947 ng/ml
25)	Aroclor 1242 (6)	7.137	11633	2.485 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.550	14107	2.338 ng/ml
28)	Aroclor 1248 (2)	6.782	6402	0.765 ng/ml
29)	Aroclor 1248 (3)	7.012	5158	0.583 ng/ml
30)	Aroclor 1248 (4)	7.309	3537	0.355 ng/ml
31)	Aroclor 1248 (5)	7.335	5068	0.520 ng/ml
32)	Aroclor 1248 (6)	7.832	10006	1.704 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.335	5068	0.452 ng/ml
35)	Aroclor 1254 (2)	7.453	3789	0.274 ng/ml
36)	Aroclor 1254 (3)	7.832	10006	0.474 ng/ml
37)	Aroclor 1254 (4)	7.994	3589	0.268 ng/ml
38)	Aroclor 1254 (5)	8.392	58629	4.131 ng/ml
39)	Aroclor 1254 (6)	8.678	3693	0.834 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.946	7869	0.553 ng/ml
42)	Aroclor 1260 (2)	8.079	11952	0.650 ng/ml
43)	Aroclor 1260 (3)	8.644	11238	0.839 ng/ml
44)	Aroclor 1260 (4)	8.815	120366	3.673 ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F022.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 5:52 pm
Operator : MJB/KAK
Sample : A0E0347-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:57 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.131	22417	1.151 ng/ml
46)	Aroclor 1260 (6)	9.584	12291	1.715 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.079	11952	0.851 ng/ml
49)	Aroclor 1262 (2)	8.392	58629	3.002 ng/ml
50)	Aroclor 1262 (3)	8.644	11238	0.689 ng/ml
51)	Aroclor 1262 (4)	8.815	120366	3.272 ng/ml
52)	Aroclor 1262 (5)	9.131	22417	1.110 ng/ml
53)	Aroclor 1262 (6)	9.584	12291	1.226 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.644	11238	1.233 ng/ml
56)	Aroclor 1268 (2)	9.073	16917	0.398 ng/ml
57)	Aroclor 1268 (3)	9.131	22417	0.655 ng/ml
58)	Aroclor 1268 (4)	9.331	774695	25.349 ng/ml
59)	Aroclor 1268 (5)	9.584	12291	1.111 ng/ml
60)	Aroclor 1268 (6)	9.892	1567161	18.950 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

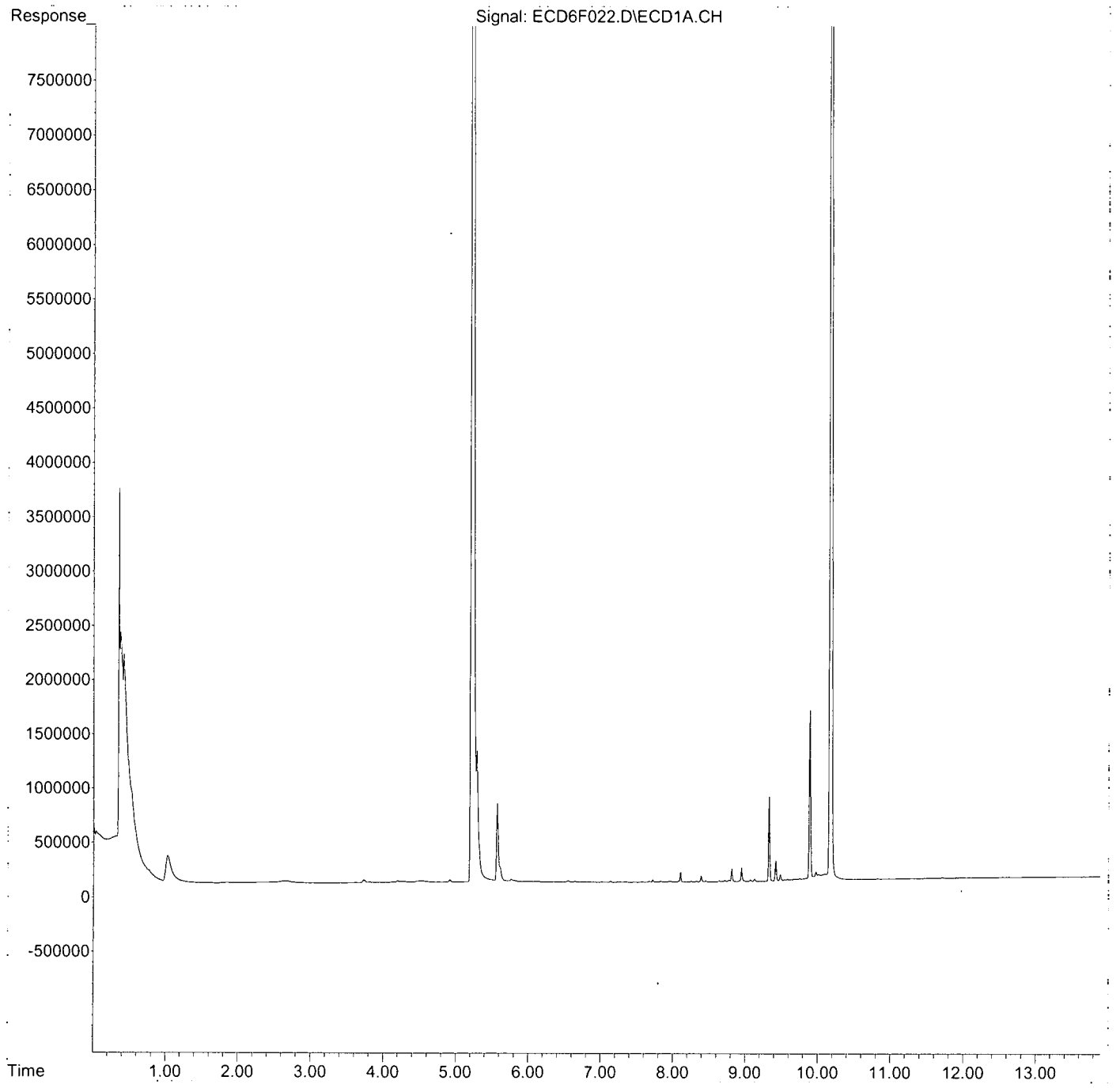
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F022.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 5:52 pm
Operator : MJB/KAK
Sample : A0E0347-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:26:57 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F023.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 6:10 pm
Operator : MJB/KAK
Sample : A0E0347-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:27:15 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

5/20/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.215	34158434	180.301 ng/ml
62)	S DCBP (S)	10.179	43330841	252.368 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.130	8170	1.159 ng/ml
3)	Aroclor 1016 (2)	6.543	7381	0.583 ng/ml
4)	Aroclor 1016 (3)	6.611	1714	0.246 ng/ml
5)	Aroclor 1016 (4)	6.780	3669	0.537 ng/ml
6)	Aroclor 1016 (5)	7.009	2540	0.348 ng/ml
7)	Aroclor 1016 (6)	7.137	9555	1.843 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.569	700524	279.184 ng/ml
10)	Aroclor 1221 (2)	5.699	14110	9.217 ng/ml
11)	Aroclor 1221 (3)	5.762	23273	4.669 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.762	23273	5.774 ng/ml
14)	Aroclor 1232 (2)	6.543	7381	1.415 ng/ml
15)	Aroclor 1232 (3)	6.611	1714	0.600 ng/ml
16)	Aroclor 1232 (4)	6.780	3669	1.556 ng/ml
17)	Aroclor 1232 (5)	7.009	2540	0.926 ng/ml
18)	Aroclor 1232 (6)	7.137	9555	4.159 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.130	8170	1.586 ng/ml
21)	Aroclor 1242 (2)	6.543	7381	0.766 ng/ml
22)	Aroclor 1242 (3)	6.611	1714	0.330 ng/ml
23)	Aroclor 1242 (4)	6.780	3669	0.774 ng/ml
24)	Aroclor 1242 (5)	7.009	2540	0.466 ng/ml
25)	Aroclor 1242 (6)	7.137	9555	2.041 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.543	7381	1.223 ng/ml
28)	Aroclor 1248 (2)	6.780	3669	0.439 ng/ml
29)	Aroclor 1248 (3)	7.009	2540	0.287 ng/ml
30)	Aroclor 1248 (4)	7.303	1186	0.119 ng/ml
31)	Aroclor 1248 (5)	7.338	2378	0.244 ng/ml
32)	Aroclor 1248 (6)	7.831	9181	1.564 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.338	2378	0.212 ng/ml
35)	Aroclor 1254 (2)	7.453	2752	0.199 ng/ml
36)	Aroclor 1254 (3)	7.831	9181	0.435 ng/ml
37)	Aroclor 1254 (4)	7.994	3322	0.248 ng/ml
38)	Aroclor 1254 (5)	8.391	64071	4.515 ng/ml
39)	Aroclor 1254 (6)	8.677	4282	0.967 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.947	6720	0.472 ng/ml
42)	Aroclor 1260 (2)	8.078	8809	0.479 ng/ml
43)	Aroclor 1260 (3)	8.643	11233	0.839 ng/ml
44)	Aroclor 1260 (4)	8.814	128886	3.933 ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F023.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 6:10 pm
Operator : MJB/KAK
Sample : A0E0347-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:27:15 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.130	22345	1.148	ng/ml
46)	Aroclor 1260 (6)	9.585	10521	1.468	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.078	8809	0.627	ng/ml
49)	Aroclor 1262 (2)	8.391	64071	3.281	ng/ml
50)	Aroclor 1262 (3)	8.643	11233	0.688	ng/ml
51)	Aroclor 1262 (4)	8.814	128886	3.503	ng/ml
52)	Aroclor 1262 (5)	9.130	22345	1.107	ng/ml
53)	Aroclor 1262 (6)	9.585	10521	1.050	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.643	11233	1.232	ng/ml
56)	Aroclor 1268 (2)	9.072	15563	0.366	ng/ml
57)	Aroclor 1268 (3)	9.130	22345	0.653	ng/ml
58)	Aroclor 1268 (4)	9.330	716676	23.451	ng/ml
59)	Aroclor 1268 (5)	9.585	10521	0.951	ng/ml
60)	Aroclor 1268 (6)	9.891	1481445	17.914	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

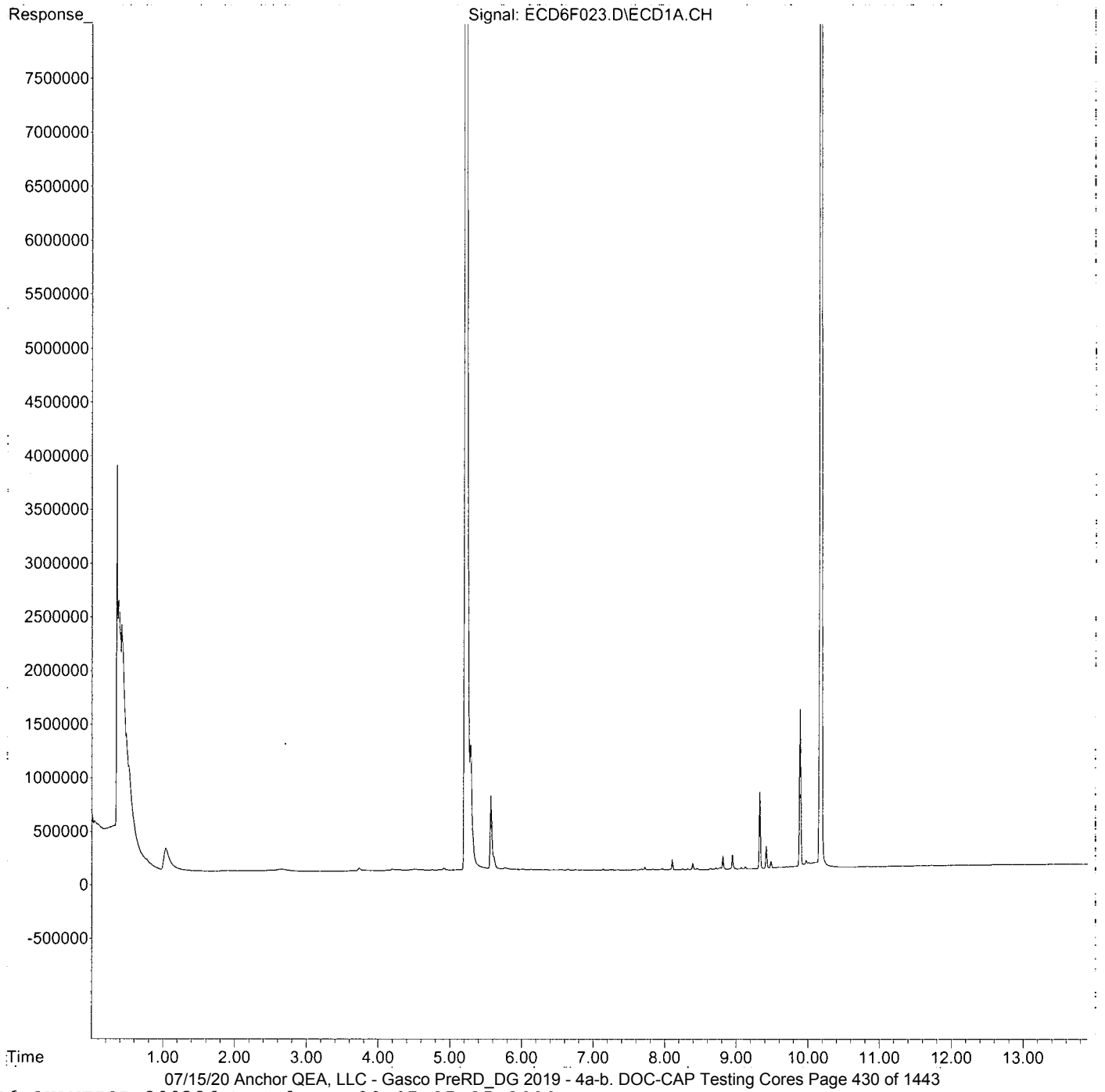
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F023.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 6:10 pm
Operator : MJB/KAK
Sample : A0E0347-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:27:15 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F028.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 7:38 pm
Operator : MJB/KAK
Sample : 0E18036-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:28:43 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

5/20/20

Q-41
1260

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.217	50529049	266.712	ng/ml
62)	S DCBP (S)	10.178	51534108	300.145	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.126	3540785	502.294	ng/ml
3)	Aroclor 1016 (2)	6.542	6895135	544.505	ng/ml
4)	Aroclor 1016 (3)	6.627	3778274	542.127	ng/ml
5)	Aroclor 1016 (4)	6.782	3891331	569.358	ng/ml
6)	Aroclor 1016 (5)	7.008	4184874	573.574	ng/ml
7)	Aroclor 1016 (6)	7.136	3132015	604.248	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.569	1221415	486.778	ng/ml
10)	Aroclor 1221 (2)	5.683	417772	272.893	ng/ml
11)	Aroclor 1221 (3)	5.764	1830778	367.252	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.764	1830778	454.211	ng/ml
14)	Aroclor 1232 (2)	6.542	6895135	1321.561	ng/ml
15)	Aroclor 1232 (3)	6.627	3778274	1322.067	ng/ml
16)	Aroclor 1232 (4)	6.782	3891331	1649.871	ng/ml
17)	Aroclor 1232 (5)	7.008	4184874	1526.013	ng/ml
18)	Aroclor 1232 (6)	7.136	3132015	1363.336	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.126	3540785	687.541	ng/ml
21)	Aroclor 1242 (2)	6.542	6895135	715.489	ng/ml
22)	Aroclor 1242 (3)	6.627	3778274	728.476	ng/ml
23)	Aroclor 1242 (4)	6.782	3891331	820.789	ng/ml
24)	Aroclor 1242 (5)	7.008	4184874	768.045	ng/ml
25)	Aroclor 1242 (6)	7.136	3132015	668.979	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.542	6895135	1142.879	ng/ml
28)	Aroclor 1248 (2)	6.782	3891331	465.217	ng/ml
29)	Aroclor 1248 (3)	7.008	4184874	472.975	ng/ml
30)	Aroclor 1248 (4)	7.306	755598	75.881	ng/ml
31)	Aroclor 1248 (5)	7.339	2700030	277.091	ng/ml
32)	Aroclor 1248 (6)	7.833	6737616	1147.574	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.339	2700030	240.932	ng/ml
35)	Aroclor 1254 (2)	7.449	3111153	225.354	ng/ml
36)	Aroclor 1254 (3)	7.833	6737616	319.160	ng/ml
37)	Aroclor 1254 (4)	7.995	808029	60.401	ng/ml
38)	Aroclor 1254 (5)	8.380	8537348	601.577	ng/ml
39)	Aroclor 1254 (6)	8.677	905164	204.374	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.946	8309405	584.110	ng/ml
42)	Aroclor 1260 (2)	8.080	10782195	586.022	ng/ml
43)	Aroclor 1260 (3)	8.645	8028698	599.633	ng/ml
44)	Aroclor 1260 (4)	8.817	20543621	626.846	ng/ml

Q-41 Q-41

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F028.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 7:38 pm
Operator : MJB/KAK
Sample : 0E18036-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:28:43 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.129	12276871	630.471	ng/ml
46)	Aroclor 1260 (6)	9.581	4392470	612.808	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.080	10782195	767.926	ng/ml
49)	Aroclor 1262 (2)	8.408	8223778	421.102	ng/ml
50)	Aroclor 1262 (3)	8.645	8028698	491.875	ng/ml
51)	Aroclor 1262 (4)	8.817	20543621	558.381	ng/ml
52)	Aroclor 1262 (5)	9.129	12276871	607.992	ng/ml
53)	Aroclor 1262 (6)	9.581	4392470	438.265	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.645	8028698	880.683	ng/ml
56)	Aroclor 1268 (2)	9.071	4340162	102.029	ng/ml
57)	Aroclor 1268 (3)	9.129	12276871	358.651	ng/ml
58)	Aroclor 1268 (4)	9.327	484418	15.851	ng/ml
59)	Aroclor 1268 (5)	9.581	4392470	396.873	ng/ml
60)	Aroclor 1268 (6)	9.890	1162264	14.054	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

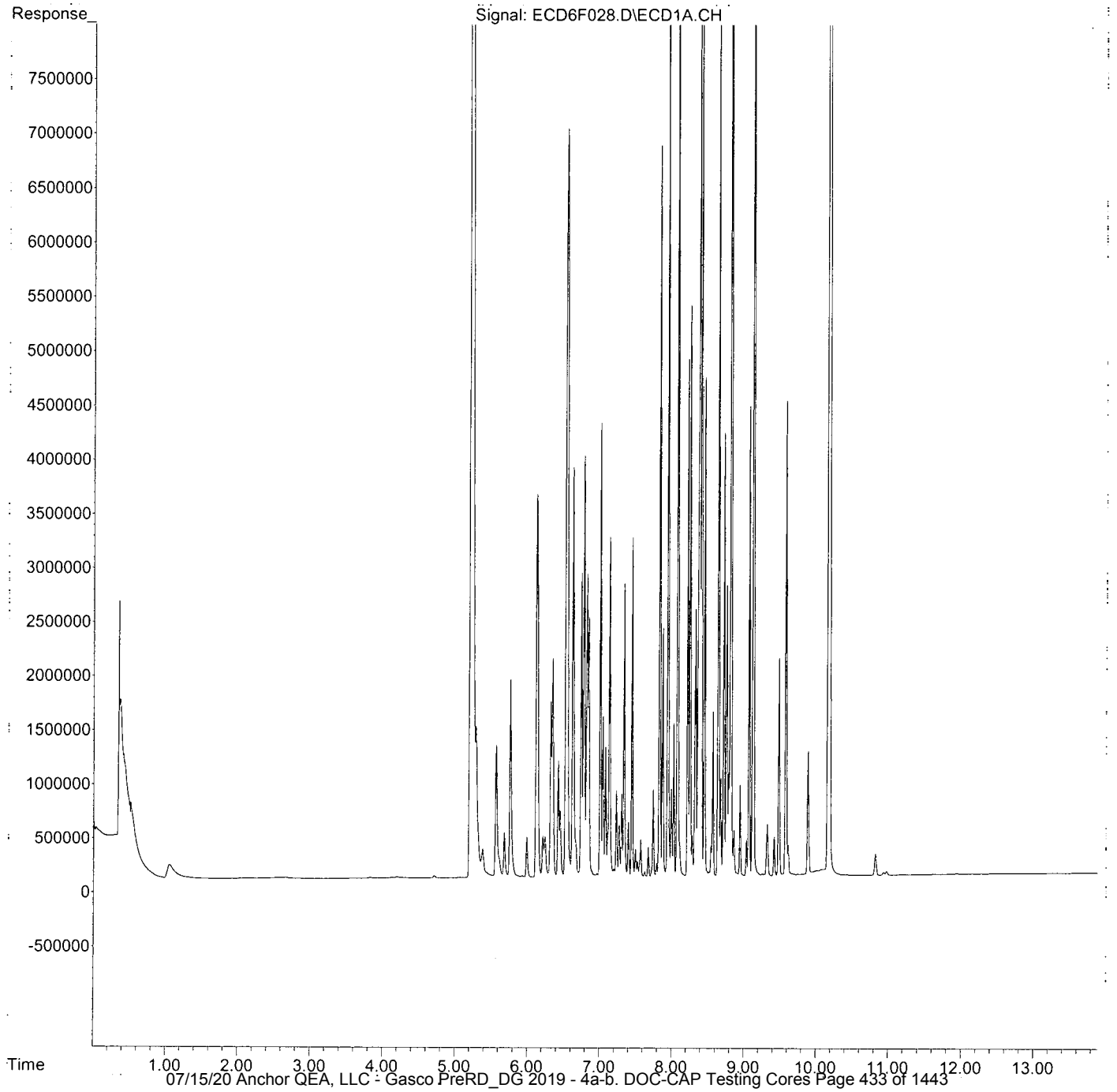
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F028.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 7:38 pm
Operator : MJB/KAK
Sample : 0E18036-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:28:43 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F029.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 7:56 pm
Operator : MJB/KAK
Sample : 0E18036-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:29:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

5/20/20 clean

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.217	19086713	100.747 ng/ml
62) S	DCBP (S)	10.176	19479121	113.450 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.121	2791	0.396 ng/ml
3)	Aroclor 1016 (2)	6.552	2898	0.229 ng/ml
4)	Aroclor 1016 (3)	6.623	1664	0.239 ng/ml
5)	Aroclor 1016 (4)	6.772	1819	0.266 ng/ml
6)	Aroclor 1016 (5)	7.005	1418	0.194 ng/ml
7)	Aroclor 1016 (6)	7.137	5285	1.020 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.572	389640	155.286 ng/ml
10)	Aroclor 1221 (2)	5.695	11079	7.237 ng/ml
11)	Aroclor 1221 (3)	5.763	9011	1.808 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.763	9011	2.236 ng/ml
14)	Aroclor 1232 (2)	6.552	2898	0.555 ng/ml
15)	Aroclor 1232 (3)	6.623	1664	0.582 ng/ml
16)	Aroclor 1232 (4)	6.790	1695	0.719 ng/ml
17)	Aroclor 1232 (5)	7.005	1418	0.517 ng/ml
18)	Aroclor 1232 (6)	7.137	5285	2.301 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.125	2755	0.535 ng/ml
21)	Aroclor 1242 (2)	6.552	2898	0.301 ng/ml
22)	Aroclor 1242 (3)	6.623	1664	0.321 ng/ml
23)	Aroclor 1242 (4)	6.790	1695	0.358 ng/ml
24)	Aroclor 1242 (5)	7.005	1418	0.260 ng/ml
25)	Aroclor 1242 (6)	7.137	5285	1.129 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.552	2898	0.480 ng/ml
28)	Aroclor 1248 (2)	6.772	1819	0.217 ng/ml
29)	Aroclor 1248 (3)	7.005	1418	0.160 ng/ml
30)	Aroclor 1248 (4)	7.305	922	0.093 ng/ml
31)	Aroclor 1248 (5)	7.345	933	0.096 ng/ml
32)	Aroclor 1248 (6)	7.831	5996	1.021 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.338	1046	0.093 ng/ml
35)	Aroclor 1254 (2)	7.443	490	0.035 ng/ml
36)	Aroclor 1254 (3)	7.831	5996	0.284 ng/ml
37)	Aroclor 1254 (4)	7.973	9353	0.699 ng/ml
38)	Aroclor 1254 (5)	8.392	33605	2.368 ng/ml
39)	Aroclor 1254 (6)	8.678	3788	0.855 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.943	3296	0.232 ng/ml
42)	Aroclor 1260 (2)	8.079	3184	0.173 ng/ml
43)	Aroclor 1260 (3)	8.644	3420	0.255 ng/ml
44)	Aroclor 1260 (4)	8.814	111019	3.388 ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F029.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 7:56 pm
Operator : MJB/KAK
Sample : 0E18036-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:29:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.130	7629	0.392 ng/ml
46)	Aroclor 1260 (6)	9.586	6751	0.942 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.079	3184	0.227 ng/ml
49)	Aroclor 1262 (2)	8.392	33605	1.721 ng/ml
50)	Aroclor 1262 (3)	8.644	3420	0.210 ng/ml
51)	Aroclor 1262 (4)	8.814	111019	3.018 ng/ml
52)	Aroclor 1262 (5)	9.130	7629	0.378 ng/ml
53)	Aroclor 1262 (6)	9.586	6751	0.674 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.644	3420	0.375 ng/ml
56)	Aroclor 1268 (2)	9.072	2933	0.069 ng/ml
57)	Aroclor 1268 (3)	9.130	7629	0.223 ng/ml
58)	Aroclor 1268 (4)	9.330	105635	3.457 ng/ml
59)	Aroclor 1268 (5)	9.586	6751	0.610 ng/ml
60)	Aroclor 1268 (6)	9.891	127544	1.542 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

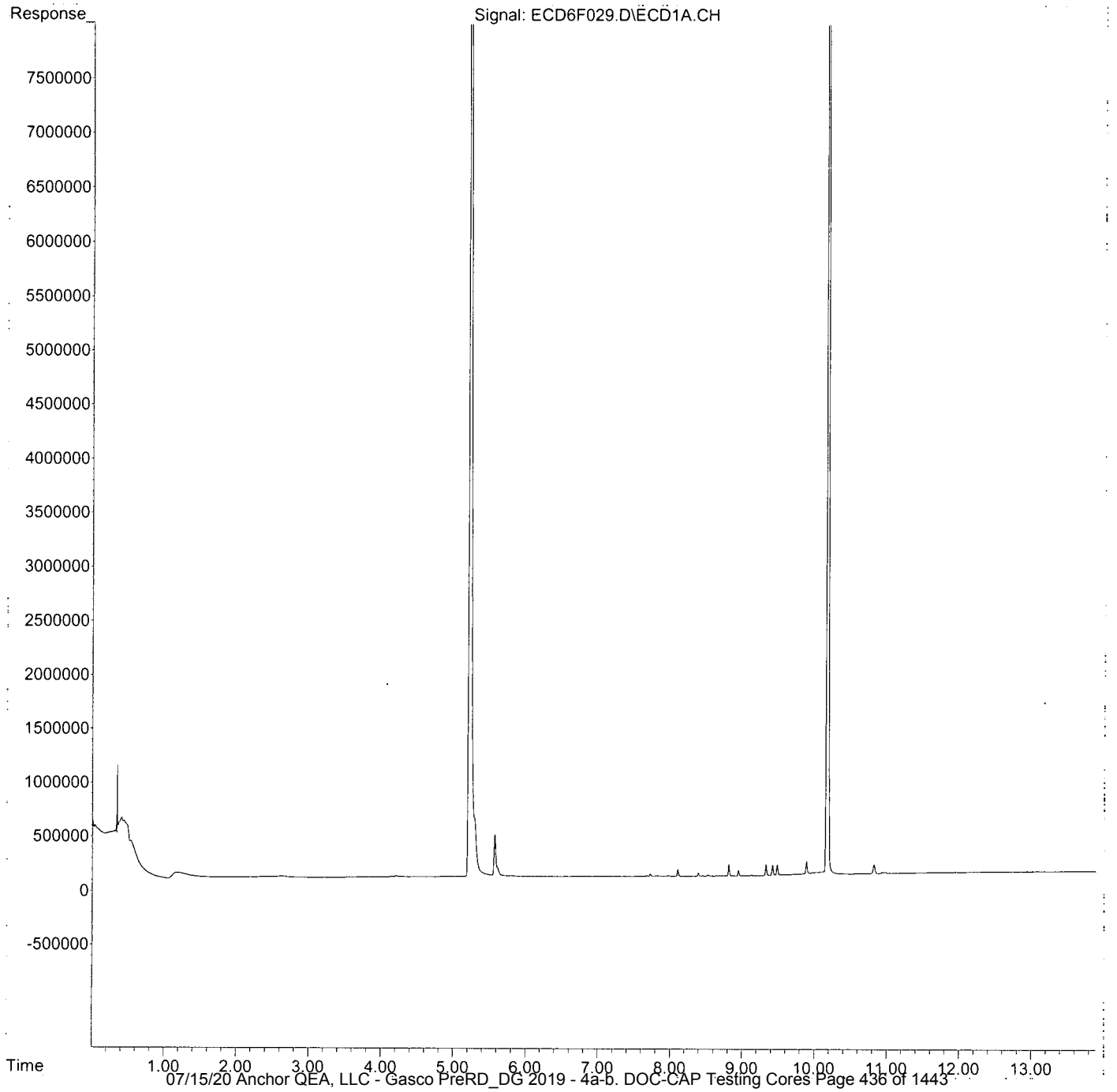
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0E18036\
Data File : ECD6F029.D
Signal(s) : ECD1A.CH
Acq On : 18 May 2020 7:56 pm
Operator : MJB/KAK
Sample : 0E18036-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: May 20 07:29:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Polychlorinated Biphenyls by EPA 8082A
Calibration Data

Sequence 0C26027 (Cal ID A0C3001) DUALECD6F

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0C26027**	Instrument:	**DUALECD6F**
Date:	**03/26/20 06:41**	Calibration:	**A0C3001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0C26027-ICB1	Water	QC	QC				A20C404
2	0C26027-CAL1	Water	QC	QC				A19L280
3	0C26027-CAL2	Water	QC	QC				A19L281
4	0C26027-CAL3	Water	QC	QC				A19L282
5	0C26027-CAL4	Water	QC	QC				A19L283
6	0C26027-CAL5	Water	QC	QC				A19L276
7	0C26027-CAL6	Water	QC	QC				A19L278
8	0C26027-CAL7	Water	QC	QC				A19L279
9	0C26027-IBL1	Water	QC	QC				
10	0C26027-ICV1	Water	QC	QC				A20B355
11	0C26027-CAL8	Water	QC	QC				A20C117
12	0C26027-CAL9	Water	QC	QC				A20B322
13	0C26027-CALA	Water	QC	QC				A20B323
14	0C26027-CALB	Water	QC	QC				A20B324
15	0C26027-CALC	Water	QC	QC				A20B325
16	0C26027-CALD	Water	QC	QC				A20B326
17	0C26027-CALE	Water	QC	QC				A20B327
18	0C26027-ICV2	Water	QC	QC				A20B353
19	0C26027-ICV3	Water	QC	QC				A19J367
20	0C26027-ICV4	Water	QC	QC				A20B354
21	0C26027-ICV5	Water	QC	QC				A20B130

Comments:

Data Entered By: 3/30/20

Data Reviewed By: MKJ 3/30/20

Calibration Status Report HP G1530A

Method Path : S:\METHODS\
Method File : FECD6_QUANTPCB_200326.M
Title : PCB Data Analysis
Last Update : Mon Mar 30 07:42:15 2020
Response Via : Initial Calibration

AOC3001 3/30/20

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	S:\DATA\0C26027\ECD6F007.D
2	2	25	0	S:\DATA\0C26027\ECD6F008.D
3	3	50	0	S:\DATA\0C26027\ECD6F009.D
4	4	100	0	S:\DATA\0C26027\ECD6F010.D
5	5	250	0	S:\DATA\0C26027\ECD6F022.D
6	6	500	0	S:\DATA\0C26027\ECD6F012.D
7	7	800	0	S:\DATA\0C26027\ECD6F013.D
8	8	-1	0	S:\DATA\9K18055\ECD6F010.D
9	9	-1	0	S:\DATA\9K18055\ECD6F011.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Mar 30 07:39 2020	Mar 27 14:09 2020	26 Mar 2020 8:49 am
2	2	Mar 30 07:39 2020	Mar 27 14:11 2020	26 Mar 2020 9:06 am
3	3	Mar 30 07:40 2020	Mar 27 14:12 2020	26 Mar 2020 9:24 am
4	4	Mar 30 07:40 2020	Mar 27 14:13 2020	26 Mar 2020 9:42 am
5	5	Mar 30 07:42 2020	Mar 30 07:15 2020	26 Mar 2020 6:15 pm
6	6	Mar 30 07:40 2020	Mar 27 14:14 2020	26 Mar 2020 10:17 am
7	7	Mar 30 07:40 2020	Mar 27 14:16 2020	26 Mar 2020 10:35 am
8	8	Nov 20 11:50 2019	Nov 19 12:03 2019	18 Nov 2019 19:08
9	9	Nov 20 11:50 2019	Nov 19 12:04 2019	18 Nov 2019 19:26

FECD6_QUANTPCB_200326.M Mon Mar 30 08:47:23 2020

Response Factor Report HP G1530A

Method Path : S:\METHODS\
Method File : FECD6_QUANTPCB_200326.M
Title : PCB Data Analysis
Last Update : Mon Mar 30 07:42:15 2020
Response Via : Initial Calibration

3/30/20

Calibration Files
1 =ECD6F007.D 2 =ECD6F008.D 3 =ECD6F009.D
4 =ECD6F010.D 5 =ECD6F022.D 6 =ECD6F012.D

		Compound	1	2	3	4	5	6	Avg		%RSD	
1)	S	TCMX (S)	1.659	1.666	1.749	1.728	1.810	2.268	1.895	E5	15.85	✓
2)		Aroclor 1016 ...	8.165	7.598	7.336	6.657	6.598	6.626	7.049	E3	9.40	✓
3)		Aroclor 1016 ...	1.270	1.258	1.286	1.198	1.255	1.297	1.266	E4	2.75	✓
4)		Aroclor 1016 ...	7.650	7.368	6.956	6.629	6.806	6.669	6.969	E3	5.63	✓
5)		Aroclor 1016 ...	7.801	7.358	7.109	6.467	6.452	6.427	6.835	E3	8.65	✓
6)		Aroclor 1016 ...	8.097	7.700	7.310	6.942	7.089	7.100	7.296	E3	6.19	✓
7)		Aroclor 1016 (6)	5.681	5.426	5.377	4.904	4.990	4.961	5.183	E3	5.92	✓
8)		Aroclor 1016 ...							0.000		-1.00	
9)		Aroclor 1221 (1)					2.509		2.509	E3	0.00	
10)		Aroclor 1221 (2)					1.531		1.531	E3	0.00	
11)		Aroclor 1221 (3)					4.985		4.985	E3	0.00	
12)		Aroclor 1221 ...							0.000		-1.00	
13)		Aroclor 1232 (1)					4.031		4.031	E3	0.00	
14)		Aroclor 1232 (2)					5.217		5.217	E3	0.00	
15)		Aroclor 1232 (3)					2.858		2.858	E3	0.00	
16)		Aroclor 1232 (4)					2.359		2.359	E3	0.00	
17)		Aroclor 1232 (5)					2.742		2.742	E3	0.00	
18)		Aroclor 1232 (6)					2.297		2.297	E3	0.00	
19)		Aroclor 1232 ...							0.000		-1.00	
20)		Aroclor 1242 ...					5.150		5.150	E3	0.00	
21)		Aroclor 1242 ...					9.637		9.637	E3	0.00	
22)		Aroclor 1242 ...					5.187		5.187	E3	0.00	
23)		Aroclor 1242 ...					4.741		4.741	E3	0.00	
24)		Aroclor 1242 ...					5.449		5.449	E3	0.00	
25)		Aroclor 1242 (6)					4.682		4.682	E3	0.00	
26)		Aroclor 1242 ...							0.000		-1.00	
27)		Aroclor 1248 ...					6.033		6.033	E3	0.00	
28)		Aroclor 1248 ...					8.365		8.365	E3	0.00	
29)		Aroclor 1248 ...					8.848		8.848	E3	0.00	
30)		Aroclor 1248 ...					9.958		9.958	E3	0.00	
31)		Aroclor 1248 ...					9.744		9.744	E3	0.00	
32)		Aroclor 1248 (6)					5.871		5.871	E3	0.00	
33)		Aroclor 1248 ...							0.000		-1.00	
34)		Aroclor 1254 ...					1.121		1.121	E4	0.00	
35)		Aroclor 1254 ...					1.381		1.381	E4	0.00	
36)		Aroclor 1254 ...					2.111		2.111	E4	0.00	
37)		Aroclor 1254 ...					1.338		1.338	E4	0.00	
38)		Aroclor 1254 ...					1.419		1.419	E4	0.00	
39)		Aroclor 1254 (6)					4.429		4.429	E3	0.00	
40)		Aroclor 1254 ...							0.000		-1.00	
41)		Aroclor 1260 ...	1.536	1.416	1.428	1.358	1.404	1.411	1.423	E4	3.84	✓
42)		Aroclor 1260 ...	1.972	1.873	1.849	1.757	1.831	1.771	1.840	E4	3.87	✓
43)		Aroclor 1260 (3)	1.411	1.362	1.391	1.293	1.324	1.293	1.339	E4	3.70	✓
44)		Aroclor 1260 (4)	3.171	3.142	3.203	3.128	3.238	3.419	3.277	E4	5.71	✓
45)		Aroclor 1260 (5)	1.906	1.913	1.923	1.854	1.937	2.028	1.947	E4	3.86	✓
46)		Aroclor 1260 (6)	7.428	7.295	7.369	6.984	6.892	7.107	7.168	E3	2.80	✓
47)		Aroclor 1260 ...							0.000		-1.00	
48)		Aroclor 1262 (1)					1.404		1.404	E4	0.00	
49)		Aroclor 1262 (2)					1.953		1.953	E4	0.00	
50)		Aroclor 1262 (3)					1.632		1.632	E4	0.00	
51)		Aroclor 1262 (4)					3.679		3.679	E4	0.00	
52)		Aroclor 1262 (5)					2.019		2.019	E4	0.00	
53)		Aroclor 1262 (6)					1.002		1.002	E4	0.00	
54)		Aroclor 1262 ...							0.000		-1.00	
55)		Aroclor 1268 (1)					9.116		9.116	E3	0.00	
56)		Aroclor 1268 (2)					4.254		4.254	E4	0.00	
57)		Aroclor 1268 (3)					3.423		3.423	E4	0.00	
58)		Aroclor 1268 (4)					3.056		3.056	E4	0.00	
59)		Aroclor 1268 (5)					1.107		1.107	E4	0.00	
60)		Aroclor 1268 (6)					8.270		8.270	E4	0.00	

Response Factor Report HP G1530A

Method Path : S:\METHODS\
Method File : FECD6_QUANTPCB_200326.M
Title : PCB Data Analysis
Last Update : Mon Mar 30 07:42:15 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD6F007.D 2 =ECD6F008.D 3 =ECD6F009.D
4 =ECD6F010.D 5 =ECD6F022.D 6 =ECD6F012.D

		Compound	1	2	3	4	5	6	Avg	%RSD
61)		Aroclor 1268 ...							0.000	-1.00
62)	S	DCBP (S)	1.586	1.568	1.634	1.619	1.632	2.006	1.717 E5	10.93

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

Compound List Report HP G1530A

Method Path : S:\METHODS\
Method File : FECD6_QUANTPCB_200326.M
Title : PCB Data Analysis
Last Update : Mon Mar 30 07:42:15 2020
Response Via : Initial Calibration

Total Cpnds : 62

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.212	1.000	A	H	L
2		Aroclor 1016 (1)	6.122	1.000	A	H	R
3		Aroclor 1016 (2)	6.540	1.000	A	H	R
4		Aroclor 1016 (3)	6.622	1.000	A	H	R
5		Aroclor 1016 (4)	6.778	1.000	A	H	R
6		Aroclor 1016 (5)	7.005	1.000	A	H	R
7		Aroclor 1016 (6)	7.134	1.000	A	H	R
8		Aroclor 1016 - AVE	2.218	1.000	A	H	R
9		Aroclor 1221 (1)	5.560	1.000	A	H	R
10		Aroclor 1221 (2)	5.678	1.000	A	H	R
11		Aroclor 1221 (3)	5.761	1.000	A	H	R
12		Aroclor 1221 - AVE	2.218	1.000	A	H	R
13		Aroclor 1232 (1)	5.762	1.000	A	H	R
14		Aroclor 1232 (2)	6.542	1.000	A	H	R
15		Aroclor 1232 (3)	6.625	1.000	A	H	R
16		Aroclor 1232 (4)	6.782	1.000	A	H	R
17		Aroclor 1232 (5)	7.008	1.000	A	H	R
18		Aroclor 1232 (6)	7.137	1.000	A	H	R
19		Aroclor 1232 - AVE	2.218	1.000	A	H	R
20		Aroclor 1242 (1)	6.124	1.000	A	H	R
21		Aroclor 1242 (2)	6.542	1.000	A	H	R
22		Aroclor 1242 (3)	6.625	1.000	A	H	R
23		Aroclor 1242 (4)	6.782	1.000	A	H	R
24		Aroclor 1242 (5)	7.007	1.000	A	H	R
25		Aroclor 1242 (6)	7.137	1.000	A	H	R
26		Aroclor 1242 - AVE	2.218	1.000	A	H	R
27		Aroclor 1248 (1)	6.540	1.000	A	H	R
28		Aroclor 1248 (2)	6.781	1.000	A	H	R
29		Aroclor 1248 (3)	7.007	1.000	A	H	R
30		Aroclor 1248 (4)	7.304	1.000	A	H	R
31		Aroclor 1248 (5)	7.344	1.000	A	H	R
32		Aroclor 1248 (6)	7.827	1.000	A	H	R
33		Aroclor 1248 - AVE	2.218	1.000	A	H	R
34		Aroclor 1254 (1)	7.338	1.000	A	H	R
35		Aroclor 1254 (2)	7.448	1.000	A	H	R
36		Aroclor 1254 (3)	7.826	1.000	A	H	R
37		Aroclor 1254 (4)	7.994	1.000	A	H	R
38		Aroclor 1254 (5)	8.379	1.000	A	H	R
39		Aroclor 1254 (6)	8.678	1.000	A	H	R
40		Aroclor 1254 - AVE	2.218	1.000	A	H	R
41		Aroclor 1260 (1)	7.943	1.000	A	H	R
42		Aroclor 1260 (2)	8.077	1.000	A	H	R
43		Aroclor 1260 (3)	8.644	1.000	A	H	R
44		Aroclor 1260 (4)	8.816	1.000	A	H	R
45		Aroclor 1260 (5)	9.128	1.000	A	H	R
46		Aroclor 1260 (6)	9.581	1.000	A	H	R
47		Aroclor 1260 - AVE	2.218	1.000	A	H	R
48		Aroclor 1262 (1)	8.080	1.000	A	H	R
49		Aroclor 1262 (2)	8.409	1.000	A	H	R
50		Aroclor 1262 (3)	8.646	1.000	A	H	R
51		Aroclor 1262 (4)	8.818	1.000	A	H	R
52		Aroclor 1262 (5)	9.130	1.000	A	H	R
53		Aroclor 1262 (6)	9.584	1.000	A	H	R
54		Aroclor 1262 - AVE	2.218	1.000	A	H	R
55		Aroclor 1268 (1)	8.338	1.000	A	H	R
56		Aroclor 1268 (2)	9.073	1.000	A	H	R

57		Aroclor 1268 (3)	9.124	1.000	A	H	R
58		Aroclor 1268 (4)	9.331	1.000	A	H	R
59		Aroclor 1268 (5)	9.583	1.000	A	H	R
60		Aroclor 1268 (6)	9.895	1.000	A	H	R
61		Aroclor 1268 - AVE	2.218	1.000	A	H	R
62	S	DCBP (S)	10.179	1.000	A	H	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

FECD6_QUANTPCB_200326.M Mon Mar 30 08:47:13 2020

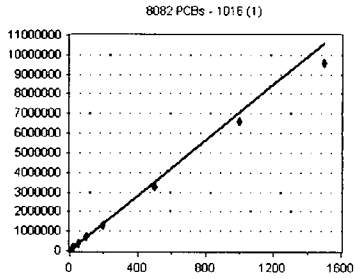
Element Calibration Review Sheet

Calibration ID: **A0C3001** Instrument: **DUALECD6F** Calibration Date: **03/30/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD6_QUANTPCB_20032**

1016 (1)

Curve Fit: **AVERAGE RF**

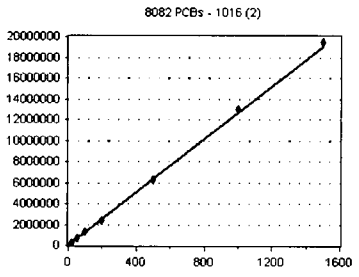


Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	163303	8165.150	6.12
0C26027-CAL2	50	379894	7597.880	6.12
0C26027-CAL3	100	733569	7335.690	6.12
0C26027-CAL4	200	1331459	6657.295	6.12
0C26027-CAL5	500	3298988	6597.976	6.12
0C26027-CAL6	1000	6626227	6626.227	6.12
0C26027-CAL7	1500	9546609	6364.406	6.12

AVE RF **7049.232** RF RSD **9.40** AVE RT **6.12**

1016 (2)

Curve Fit: **AVERAGE RF**

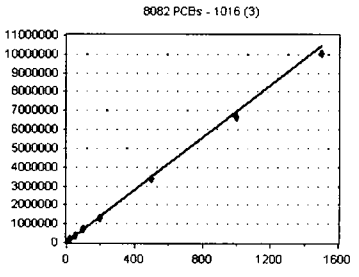


Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	253985	12699.250	6.54
0C26027-CAL2	50	629234	12584.680	6.54
0C26027-CAL3	100	1285823	12858.230	6.54
0C26027-CAL4	200	2396080	11980.400	6.54
0C26027-CAL5	500	6276235	12552.470	6.54
0C26027-CAL6	1000	.29706E+07	12970.600	6.54
0C26027-CAL7	1500	949444E+07	12996.290	6.54

AVE RF **12663.130** RF RSD **2.75** AVE RT **6.54**

1016 (3)

Curve Fit: **AVERAGE RF**

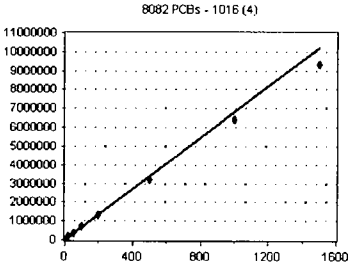


Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	152993	7649.650	6.63
0C26027-CAL2	50	368385	7367.700	6.63
0C26027-CAL3	100	695611	6956.110	6.62
0C26027-CAL4	200	1325814	6629.070	6.62
0C26027-CAL5	500	3403040	6806.080	6.62
0C26027-CAL6	1000	6668552	6668.552	6.62
0C26027-CAL7	1500	006249E+07	6708.327	6.62

AVE RF **6969.355** RF RSD **5.63** AVE RT **6.62**

1016 (4)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	156013	7800.650	6.78
0C26027-CAL2	50	367924	7358.480	6.78
0C26027-CAL3	100	710928	7109.280	6.78
0C26027-CAL4	200	1293424	6467.120	6.78
0C26027-CAL5	500	3225845	6451.690	6.78
0C26027-CAL6	1000	6426720	6426.720	6.78
0C26027-CAL7	1500	9342297	6228.198	6.78

AVE RF **6834.591** RF RSD **8.65** AVE RT **6.78**

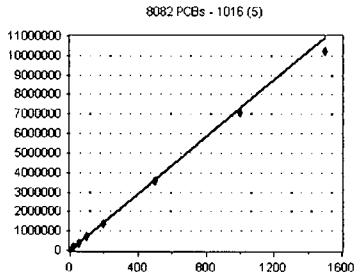
Element Calibration Review Sheet

Calibration ID: **A0C3001** Instrument: **DUALECD6F** Calibration Date: **03/30/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD6_QUANTPCB_20032**

1016 (5)

Curve Fit: **AVERAGE RF**

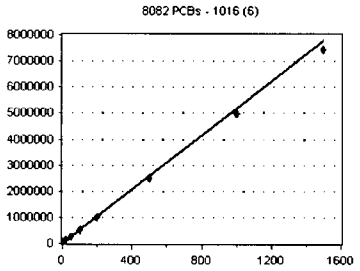


Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	161937	8096.850	7.01
0C26027-CAL2	50	385016	7700.320	7.01
0C26027-CAL3	100	730989	7309.890	7.01
0C26027-CAL4	200	1388433	6942.165	7.01
0C26027-CAL5	500	3544727	7089.454	7.01
0C26027-CAL6	1000	7100299	7100.299	7.01
0C26027-CAL7	1500	025096E+07	6833.973	7.01

AVE RF **7296.136** RF RSD **6.19** AVE RT **7.01**

1016 (6)

Curve Fit: **AVERAGE RF**

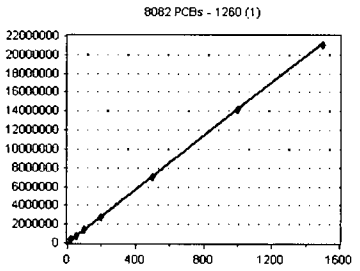


Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	113619	5680.950	7.14
0C26027-CAL2	50	271302	5426.040	7.14
0C26027-CAL3	100	537665	5376.650	7.14
0C26027-CAL4	200	980853	4904.265	7.14
0C26027-CAL5	500	2494841	4989.682	7.14
0C26027-CAL6	1000	4961279	4961.279	7.14
0C26027-CAL7	1500	7416618	4944.412	7.14

AVE RF **5183.325** RF RSD **5.92** AVE RT **7.14**

1260 (1)

Curve Fit: **AVERAGE RF**

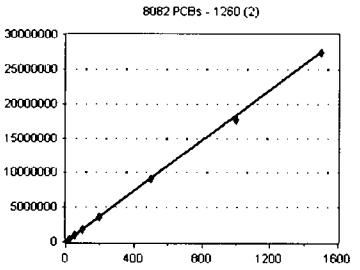


Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	307228	15361.400	7.95
0C26027-CAL2	50	708025	14160.500	7.95
0C26027-CAL3	100	1428337	14283.370	7.95
0C26027-CAL4	200	2716723	13583.620	7.95
0C26027-CAL5	500	7021799	14043.600	7.94
0C26027-CAL6	1000	411336E+07	14113.360	7.95
0C26027-CAL7	1500	105179E+07	14034.530	7.95

AVE RF **14225.770** RF RSD **3.84** AVE RT **7.95**

1260 (2)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	394359	19717.950	8.08
0C26027-CAL2	50	936692	18733.840	8.08
0C26027-CAL3	100	1849257	18492.570	8.08
0C26027-CAL4	200	3514676	17573.380	8.08
0C26027-CAL5	500	9152661	18305.320	8.08
0C26027-CAL6	1000	771136E+07	17711.360	8.08
0C26027-CAL7	1500	738751E+07	18258.340	8.08

AVE RF **18398.970** RF RSD **3.87** AVE RT **8.08**

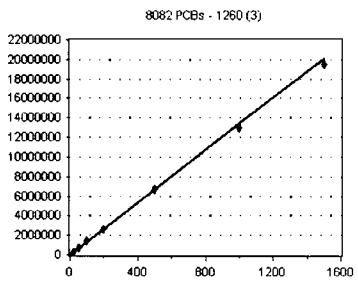
Element Calibration Review Sheet

Calibration ID: **A0C3001** Instrument: **DUALECD6F** Calibration Date: **03/30/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD6_QUANTPCB_20032**

1260 (3)

Curve Fit: **AVERAGE RF**

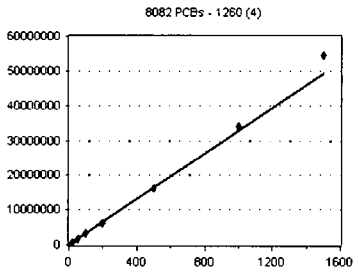


Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	282270	14113.500	8.65
0C26027-CAL2	50	681087	13621.740	8.65
0C26027-CAL3	100	1391466	13914.660	8.65
0C26027-CAL4	200	2585656	12928.280	8.65
0C26027-CAL5	500	6619136	13238.270	8.65
0C26027-CAL6	1000	292575E+07	12925.750	8.64
0C26027-CAL7	1500	947492E+07	12983.280	8.65

AVE RF **13389.350** RF RSD **3.70** AVE RT **8.65**

1260 (4)

Curve Fit: **AVERAGE RF**

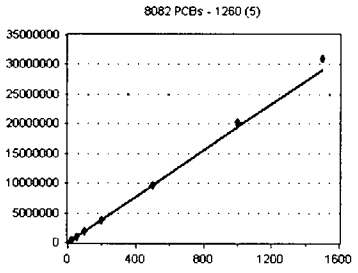


Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	634184	31709.200	8.82
0C26027-CAL2	50	1571083	31421.660	8.82
0C26027-CAL3	100	3203039	32030.390	8.82
0C26027-CAL4	200	6256303	31281.520	8.82
0C26027-CAL5	500	618954E+07	32379.080	8.82
0C26027-CAL6	1000	419108E+07	34191.080	8.82
0C26027-CAL7	1500	5.45971E+07	36398.070	8.82

AVE RF **32773.000** RF RSD **5.71** AVE RT **8.82**

1260 (5)

Curve Fit: **AVERAGE RF**

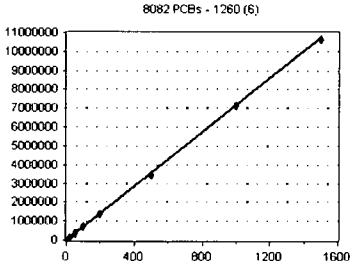


Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	381232	19061.600	9.13
0C26027-CAL2	50	956739	19134.780	9.13
0C26027-CAL3	100	1922604	19226.040	9.13
0C26027-CAL4	200	3707238	18536.190	9.13
0C26027-CAL5	500	9683013	19366.030	9.13
0C26027-CAL6	1000	028007E+07	20280.070	9.13
0C26027-CAL7	1500	105452E+07	20703.010	9.13

AVE RF **19472.530** RF RSD **3.86** AVE RT **9.13**

1260 (6)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	20	148567	7428.350	9.58
0C26027-CAL2	50	364740	7294.800	9.58
0C26027-CAL3	100	736893	7368.930	9.58
0C26027-CAL4	200	1396858	6984.290	9.58
0C26027-CAL5	500	3446149	6892.298	9.58
0C26027-CAL6	1000	7107312	7107.312	9.58
0C26027-CAL7	1500	064771E+07	7098.473	9.58

AVE RF **7167.779** RF RSD **2.80** AVE RT **9.58**

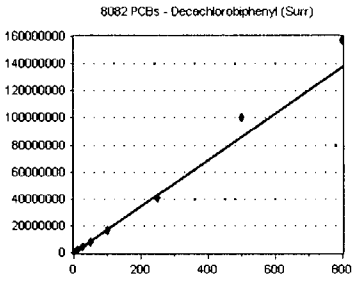
Element Calibration Review Sheet

Calibration ID: **A0C3001** Instrument: **DUALECD6F** Calibration Date: **03/30/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD6_QUANTPCB_20032**

Decachlorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0C26027-CAL1	10	1586322	158632.200	10.18
0C26027-CAL2	25	3920684	156827.400	10.18
0C26027-CAL3	50	8171698	163434.000	10.18
0C26027-CAL4	100	619367E+07	161936.700	10.18
0C26027-CAL5	250	080903E+07	163236.100	10.18
0C26027-CAL6	500	003003E+08	200600.600	10.18
0C26027-CAL7	800	577716E+08	197214.500	10.18

AVE RF **171697.400** RF RSD **10.93** AVE RT **10.18**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26027

Analysis Included

1311/8082 TCLP PCBs
608 PCBs
608 PCBs - LL (1000/1mL) +1262/68
8082 PCBs
8082 PCBs - Low Level (2mL FV)
8082 PCBs - Low Level (2mL FV) +1262/68
8082 PCBs - Low Level (1000/1mL)
8082 PCBs - Low Level (1000/1mL) (Diss)
8082 PCBs - Low Level (1000/1mL) +1262/68
8082 PCBs - Low Level (30g/2mL)
8082 PCBs + 1262/1268
8082 PCBs in Trans. Oil - LL

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
0C26027-ICB1	Initial Cal Blank	Water	A20C404		3/26/2020 8:31:00AM
0C26027-CAL1	Cal Standard	Water	A19L280	"	3/26/2020 8:49:00AM
0C26027-CAL2	Cal Standard	Water	A19L281	"	3/26/2020 9:06:00AM
0C26027-CAL3	Cal Standard	Water	A19L282	"	3/26/2020 9:24:00AM
0C26027-CAL4	Cal Standard	Water	A19L283	"	3/26/2020 9:42:00AM
0C26027-CAL5	Cal Standard	Water	A19L276	"	3/26/2020 9:59:00AM
0C26027-CAL6	Cal Standard	Water	A19L278	"	3/26/2020 10:17:00AM
0C26027-CAL7	Cal Standard	Water	A19L279	"	3/26/2020 10:35:00AM
0C26027-ICV1	Initial Cal Check	Water	A20B355	"	3/26/2020 4:11:00PM
0C26027-CAL8	Cal Standard	Water	A20C117	"	3/26/2020 4:29:00PM
0C26027-CAL9	Cal Standard	Water	A20B322	"	3/26/2020 4:46:00PM
0C26027-CALA	Cal Standard	Water	A20B323	"	3/26/2020 5:04:00PM
0C26027-CALB	Cal Standard	Water	A20B324	"	3/26/2020 5:22:00PM
0C26027-CALC	Cal Standard	Water	A20B325	"	3/26/2020 5:39:00PM
0C26027-CALD	Cal Standard	Water	A20B326	"	3/26/2020 5:57:00PM
0C26027-CALE	Cal Standard	Water	A20B327	"	3/26/2020 6:15:00PM
0C26027-ICV2	Initial Cal Check	Water	A20B353	"	3/26/2020 6:33:00PM
0C26027-ICV3	Initial Cal Check	Water	A19J367	"	3/26/2020 6:50:00PM
0C26027-ICV4	Initial Cal Check	Water	A20B354	"	3/26/2020 7:08:00PM
0C26027-ICV5	Initial Cal Check	Water	A20B130	"	3/26/2020 7:26:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0C3001** Instrument: **DUALECD6F**

1311/8082 TCLP PCBs Sequence: **0C26027** Matrix: **Water**

0C26027-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	20.0	0	
Aroclor 1260	0.0000	0.00	20.0	0	
Aroclor 1016	0.0000	0.00	20.0	0	
Aroclor 1260	0.0000	0.00	20.0	0	

0C26027-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	20.0	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26027

Aroclor 1260	0.0000	0.00	50.0	0	
Aroclor 1016	0.0000	0.00	50.0	0	
Aroclor 1260	0.0000	0.00	50.0	0	
0C26027-CAL3	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1016	0.0000	0.00	100	0	
Aroclor 1260	0.0000	0.00	100	0	
Aroclor 1016	0.0000	0.00	100	0	
Aroclor 1260	0.0000	0.00	100	0	
0C26027-CAL4	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1016	0.0000	0.00	200	0	
Aroclor 1260	0.0000	0.00	200	0	
Aroclor 1016	0.0000	0.00	200	0	
Aroclor 1260	0.0000	0.00	200	0	
0C26027-CAL5	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1016	0.0000	0.00	500	0	
Aroclor 1260	0.0000	0.00	500	0	
Aroclor 1016	0.0000	0.00	500	0	
Aroclor 1260	0.0000	0.00	500	0	
0C26027-CAL6	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1016	800.0000	0.00	1000	0	
Aroclor 1260	800.0000	0.00	1000	0	
Aroclor 1016	0.0000	0.00	1000	0	
Aroclor 1260	0.0000	0.00	1000	0	
Aroclor 1016	0.0000	0.00	1000	0	
Aroclor 1260	0.0000	0.00	1000	0	
0C26027-CAL7	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1016	800.0000	0.00	1500	0	
Aroclor 1260	800.0000	0.00	1500	0	
Aroclor 1016	0.0000	0.00	1500	0	
Aroclor 1260	0.0000	0.00	1500	0	
Aroclor 1016	0.0000	0.00	1500	0	
Aroclor 1260	0.0000	0.00	1500	0	
0C26027-CAL8	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1221	0.0000	0.00	500	0	
Aroclor 1221	0.0000	0.00	500	0	
0C26027-CAL9	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1232	0.0000	0.00	500	0	
Aroclor 1232	0.0000	0.00	500	0	
0C26027-CALA	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1242	0.0000	0.00	500	0	
Aroclor 1242	0.0000	0.00	500	0	
0C26027-CALB	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1248	0.0000	0.00	500	0	
Aroclor 1248	0.0000	0.00	500	0	
0C26027-CALC	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1254	0.0000	0.00	500	0	
Aroclor 1254	0.0000	0.00	500	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26027

0C26027-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1262	0.0000	0.00	500	0	
Aroclor 1262	0.0000	0.00	500	0	
0C26027-CALE	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Aroclor 1268	0.0000	0.00	500	0	
Aroclor 1268	0.0000	0.00	500	0	

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic fit compounds.

Analytes With Quadratic Curve Fits

Qualifier	iMDL	iMRL	Spike Amt	%Difference	OK?	Raise MRL to ?
				———	☐	☐ ———

Analytes listed above have quadratic curve fits. If they are using a weighting otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0C3001** Instrument: **DUALECD6F**

8082 PCBs Sequence: **0C26027** Matrix: **Water**

0C26027-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F006.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 8:31 am
Operator : MJB/KAK
Sample : 0C26027-ICB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:15:39 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20
clean

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.211	16343723	86.269	ng/ml
62)	S DCBP (S)	10.181	13391068	77.992	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	910	0.129	ng/ml
3)	Aroclor 1016 (2)	6.540	947	0.075	ng/ml
4)	Aroclor 1016 (3)	6.618	791	0.113	ng/ml
5)	Aroclor 1016 (4)	6.774	728	0.106	ng/ml
6)	Aroclor 1016 (5)	7.008	1334	0.183	ng/ml
7)	Aroclor 1016 (6)	7.135	2613	0.504	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.567	320423	127.700	ng/ml
10)	Aroclor 1221 (2)	5.704	8415	5.497	ng/ml
11)	Aroclor 1221 (3)	5.767	5507	1.105	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.767	5507	1.366	ng/ml
14)	Aroclor 1232 (2)	6.540	947	0.182	ng/ml
15)	Aroclor 1232 (3)	6.618	791	0.277	ng/ml
16)	Aroclor 1232 (4)	6.783	809	0.343	ng/ml
17)	Aroclor 1232 (5)	7.008	1334	0.487	ng/ml
18)	Aroclor 1232 (6)	7.135	2613	1.137	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.122	910	0.177	ng/ml
21)	Aroclor 1242 (2)	6.540	947	0.098	ng/ml
22)	Aroclor 1242 (3)	6.618	791	0.153	ng/ml
23)	Aroclor 1242 (4)	6.783	809	0.171	ng/ml
24)	Aroclor 1242 (5)	7.008	1334	0.245	ng/ml
25)	Aroclor 1242 (6)	7.135	2613	0.558	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.540	947	0.157	ng/ml
28)	Aroclor 1248 (2)	6.783	809	0.097	ng/ml
29)	Aroclor 1248 (3)	7.008	1334	0.151	ng/ml
30)	Aroclor 1248 (4)	7.306	1357	0.136	ng/ml
31)	Aroclor 1248 (5)	7.342	1231	0.126	ng/ml
32)	Aroclor 1248 (6)	7.826	4118	0.701	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.334	1384	0.124	ng/ml
35)	Aroclor 1254 (2)	7.436	470	0.034	ng/ml
36)	Aroclor 1254 (3)	7.826	4118	0.195	ng/ml
37)	Aroclor 1254 (4)	8.001	1404	0.105	ng/ml
38)	Aroclor 1254 (5)	8.367	1512	0.107	ng/ml
39)	Aroclor 1254 (6)	8.681	2470	0.558	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.949	1935	0.136	ng/ml
42)	Aroclor 1260 (2)	8.075	1389	0.076	ng/ml
43)	Aroclor 1260 (3)	8.640	4313	0.322	ng/ml
44)	Aroclor 1260 (4)	8.816	26459	0.807	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F006.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 8:31 am
Operator : MJB/KAK
Sample : 0C26027-ICB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:15:39 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.134	7726	0.397 ng/ml
46)	Aroclor 1260 (6)	9.581	9502	1.326 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.081	1010	0.072 ng/ml
49)	Aroclor 1262 (2)	8.393	17210	0.881 ng/ml
50)	Aroclor 1262 (3)	8.640	4313	0.264 ng/ml
51)	Aroclor 1262 (4)	8.816	26459	0.719 ng/ml
52)	Aroclor 1262 (5)	9.134	7726	0.383 ng/ml
53)	Aroclor 1262 (6)	9.581	9502	0.948 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.640	4313	0.473 ng/ml
56)	Aroclor 1268 (2)	9.075	6339	0.149 ng/ml
57)	Aroclor 1268 (3)	9.134	7726	0.226 ng/ml
58)	Aroclor 1268 (4)	9.332	271338	8.879 ng/ml
59)	Aroclor 1268 (5)	9.581	9502	0.859 ng/ml
60)	Aroclor 1268 (6)	9.894	510764	6.176 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

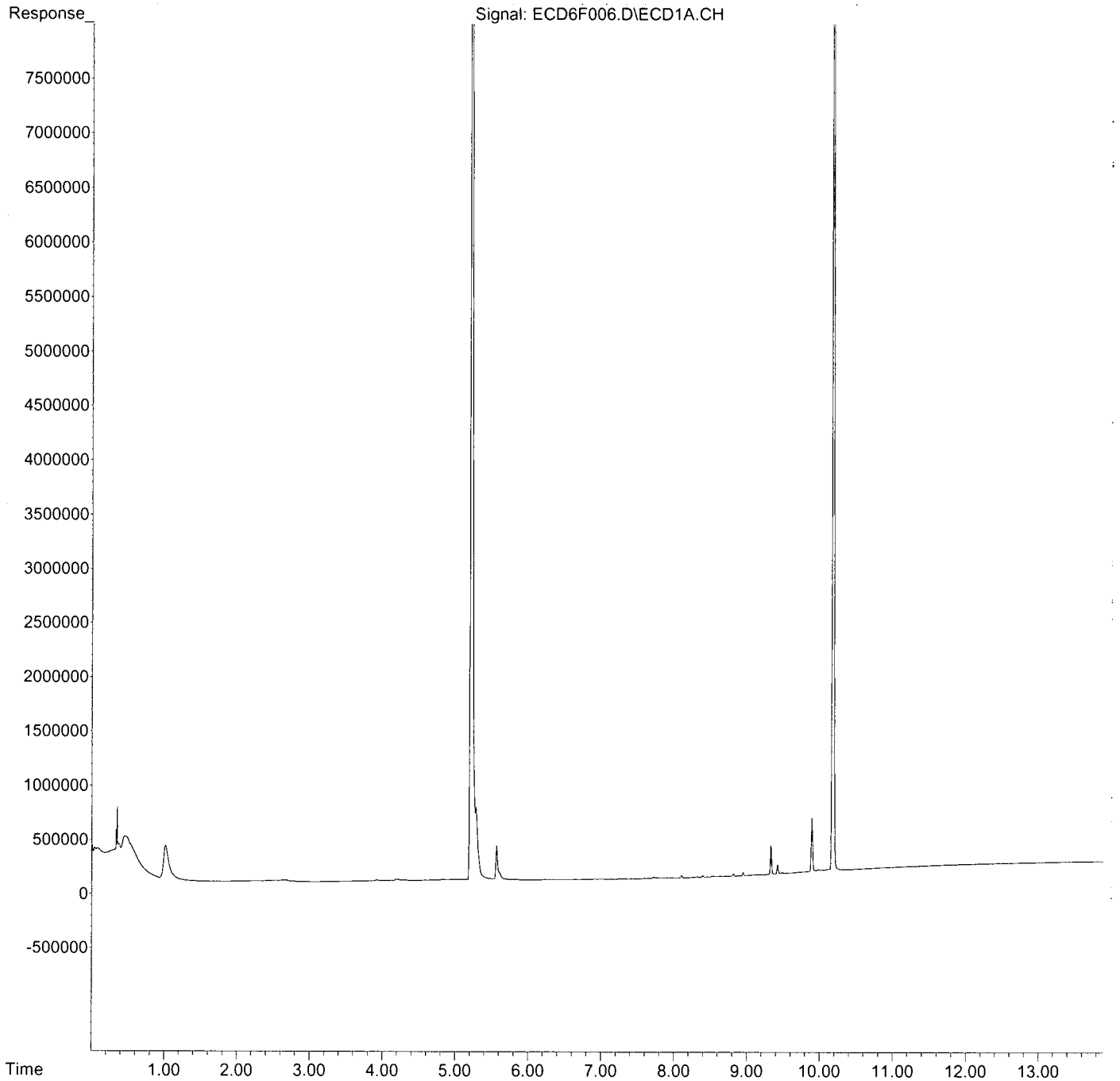
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F006.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 8:31 am
Operator : MJB/KAK
Sample : 0C26027-ICB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:15:39 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F014.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 3:53 pm
Operator : MJB/KAK
Sample : 0C26027-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

3/30/20

Integration File: PCB1.e
Quant Time: Mar 30 08:15:49 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

N.P.M.

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.285f	64438	0.340 ng/ml
62) S	DCBP (S)	10.186	44496	0.259 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.114	45580	6.466 ng/ml
3)	Aroclor 1016 (2)	6.541	35363	2.793 ng/ml
4)	Aroclor 1016 (3)	6.621	47984	6.885 ng/ml
5)	Aroclor 1016 (4)	6.781	37912	5.547 ng/ml
6)	Aroclor 1016 (5)	7.003	26892	3.686 ng/ml
7)	Aroclor 1016 (6)	7.133	19751	3.811 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.567	68143	27.157 ng/ml
10)	Aroclor 1221 (2)	5.673	58010	37.892 ng/ml
11)	Aroclor 1221 (3)	5.755	61693	12.376 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.768	62554	15.520 ng/ml
14)	Aroclor 1232 (2)	6.541	35363	6.778 ng/ml
15)	Aroclor 1232 (3)	6.629	49773	17.416 ng/ml
16)	Aroclor 1232 (4)	6.781	37912	16.074 ng/ml
17)	Aroclor 1232 (5)	7.009	27035	9.858 ng/ml
18)	Aroclor 1232 (6)	7.138	19368	8.431 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.114	45580	8.851 ng/ml
21)	Aroclor 1242 (2)	6.541	35363	3.670 ng/ml
22)	Aroclor 1242 (3)	6.629	49773	9.597 ng/ml
23)	Aroclor 1242 (4)	6.781	37912	7.997 ng/ml
24)	Aroclor 1242 (5)	7.009	27035	4.962 ng/ml
25)	Aroclor 1242 (6)	7.138	19368	4.137 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.541	35363	5.861 ng/ml
28)	Aroclor 1248 (2)	6.781	37912	4.532 ng/ml
29)	Aroclor 1248 (3)	7.009	27035	3.056 ng/ml
30)	Aroclor 1248 (4)	7.298	963	0.097 ng/ml
31)	Aroclor 1248 (5)	7.365	191381	19.640 ng/ml
32)	Aroclor 1248 (6)	7.825	1693	0.288 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.365	191381	17.077 ng/ml
35)	Aroclor 1254 (2)	7.447	4369	0.316 ng/ml
36)	Aroclor 1254 (3)	7.825	1693	0.080 ng/ml
37)	Aroclor 1254 (4)	7.988	15278	1.142 ng/ml
38)	Aroclor 1254 (5)	8.389	8953	0.631 ng/ml
39)	Aroclor 1254 (6)	8.675	3392	0.766 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.941	3966	0.279 ng/ml
42)	Aroclor 1260 (2)	8.079	19925	1.083 ng/ml
43)	Aroclor 1260 (3)	8.643	2083	0.156 ng/ml
44)	Aroclor 1260 (4)	8.820	2802	0.086 ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F014.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 3:53 pm
Operator : MJB/KAK
Sample : 0C26027-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:15:49 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.124	5622	0.289 ng/ml
46)	Aroclor 1260 (6)	9.580	30938	4.316 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.079	19925	1.419 ng/ml
49)	Aroclor 1262 (2)	8.412	8836	0.452 ng/ml
50)	Aroclor 1262 (3)	8.643	2083	0.128 ng/ml
51)	Aroclor 1262 (4)	8.820	2802	0.076 ng/ml
52)	Aroclor 1262 (5)	9.124	5622	0.278 ng/ml
53)	Aroclor 1262 (6)	9.580	30938	3.087 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.643	2083	0.229 ng/ml
56)	Aroclor 1268 (2)	9.073	7072	0.166 ng/ml
57)	Aroclor 1268 (3)	9.124	5622	0.164 ng/ml
58)	Aroclor 1268 (4)	9.331	16915	0.553 ng/ml
59)	Aroclor 1268 (5)	9.580	30938	2.795 ng/ml
60)	Aroclor 1268 (6)	9.896	51709	0.625 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

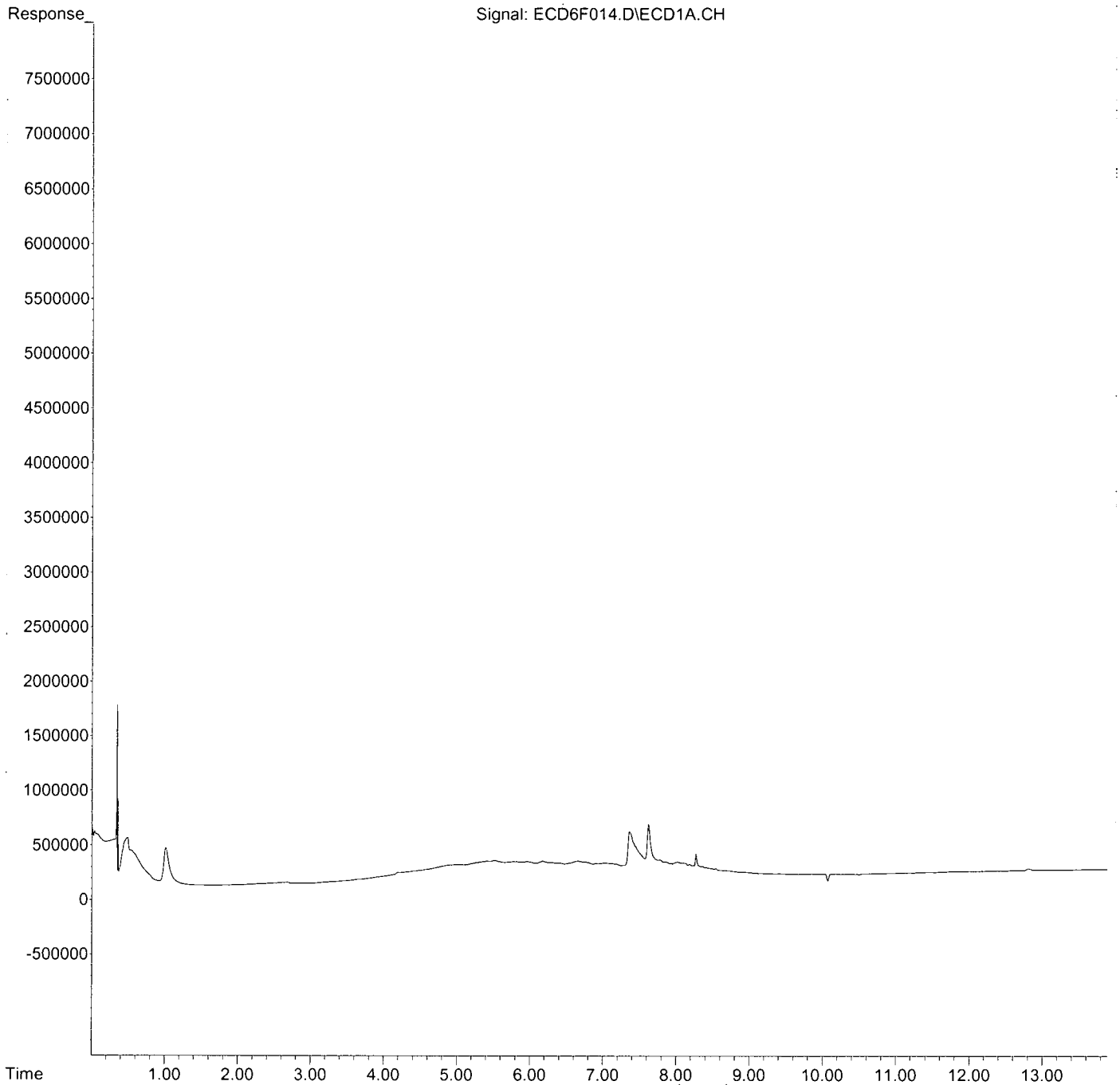
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F014.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 3:53 pm
Operator : MJB/KAK
Sample : 0C26027-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:15:49 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F015.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 4:11 pm
Operator : MJB/KAK
Sample : 0C26027-ICV1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:15:57 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

1016, 1260

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	5.213	39450927	208.237	ng/ml	
62)	S DCBP (S)	10.183	36382919	211.901	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	6.123	3425790	485.981	ng/ml	
3)	Aroclor 1016 (2)	6.541	6547047	517.016	ng/ml	
4)	Aroclor 1016 (3)	6.624	3472704	498.282	ng/ml	
5)	Aroclor 1016 (4)	6.781	3313923	484.875	ng/ml	
6)	Aroclor 1016 (5)	7.008	3564826	488.591	ng/ml	
7)	Aroclor 1016 (6)	7.137	2622590	505.967	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.565	976246	389.069	ng/ml	
10)	Aroclor 1221 (2)	5.680	386393	252.396	ng/ml	
11)	Aroclor 1221 (3)	5.762	1797127	360.502	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.762	1797127	445.862	ng/ml	
14)	Aroclor 1232 (2)	6.541	6547047	1254.845	ng/ml	
15)	Aroclor 1232 (3)	6.624	3472704	1215.144	ng/ml	
16)	Aroclor 1232 (4)	6.781	3313923	1405.058	ng/ml	
17)	Aroclor 1232 (5)	7.008	3564826	1299.913	ng/ml	
18)	Aroclor 1232 (6)	7.137	2622590	1141.588	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	6.123	3425790	665.211	ng/ml	
21)	Aroclor 1242 (2)	6.541	6547047	679.369	ng/ml	
22)	Aroclor 1242 (3)	6.624	3472704	669.560	ng/ml	
23)	Aroclor 1242 (4)	6.781	3313923	698.998	ng/ml	
24)	Aroclor 1242 (5)	7.008	3564826	654.248	ng/ml	
25)	Aroclor 1242 (6)	7.137	2622590	560.169	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.541	6547047	1085.183	ng/ml	
28)	Aroclor 1248 (2)	6.781	3313923	396.187	ng/ml	
29)	Aroclor 1248 (3)	7.008	3564826	402.897	ng/ml	
30)	Aroclor 1248 (4)	7.306	568348	57.076	ng/ml	
31)	Aroclor 1248 (5)	7.339	2748865	282.103	ng/ml	
32)	Aroclor 1248 (6)	7.834	6048689	1030.233	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	7.339	2748865	245.290	ng/ml	
35)	Aroclor 1254 (2)	7.449	2900310	210.082	ng/ml	
36)	Aroclor 1254 (3)	7.834	6048689	286.525	ng/ml	
37)	Aroclor 1254 (4)	7.996	559314	41.809	ng/ml	
38)	Aroclor 1254 (5)	8.381	8084636	569.677	ng/ml	
39)	Aroclor 1254 (6)	8.679	844656	190.712	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	7.947	7976925	560.738	ng/ml	
42)	Aroclor 1260 (2)	8.080	10103058	549.110	ng/ml	
43)	Aroclor 1260 (3)	8.647	6034675	450.707	ng/ml	
44)	Aroclor 1260 (4)	8.818	15789431	481.782	ng/ml	

496.785 ✓

484.425 ✓

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F015.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 4:11 pm
Operator : MJB/KAK
Sample : 0C26027-ICV1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:15:57 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.132	9237503	474.386	ng/ml
46)	Aroclor 1260 (6)	9.585	2794202	389.828	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.080	10103058	719.557	ng/ml
49)	Aroclor 1262 (2)	8.410	6288557	322.008	ng/ml
50)	Aroclor 1262 (3)	8.647	6034675	369.712	ng/ml
51)	Aroclor 1262 (4)	8.818	15789431	429.161	ng/ml
52)	Aroclor 1262 (5)	9.132	9237503	457.472	ng/ml
53)	Aroclor 1262 (6)	9.585	2794202	278.796	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.647	6034675	661.955	ng/ml
56)	Aroclor 1268 (2)	9.074	2754418	64.751	ng/ml
57)	Aroclor 1268 (3)	9.132	9237503	269.860	ng/ml
58)	Aroclor 1268 (4)	9.331	390910	12.791	ng/ml
59)	Aroclor 1268 (5)	9.585	2794202	252.465	ng/ml
60)	Aroclor 1268 (6)	9.896	808911	9.782	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

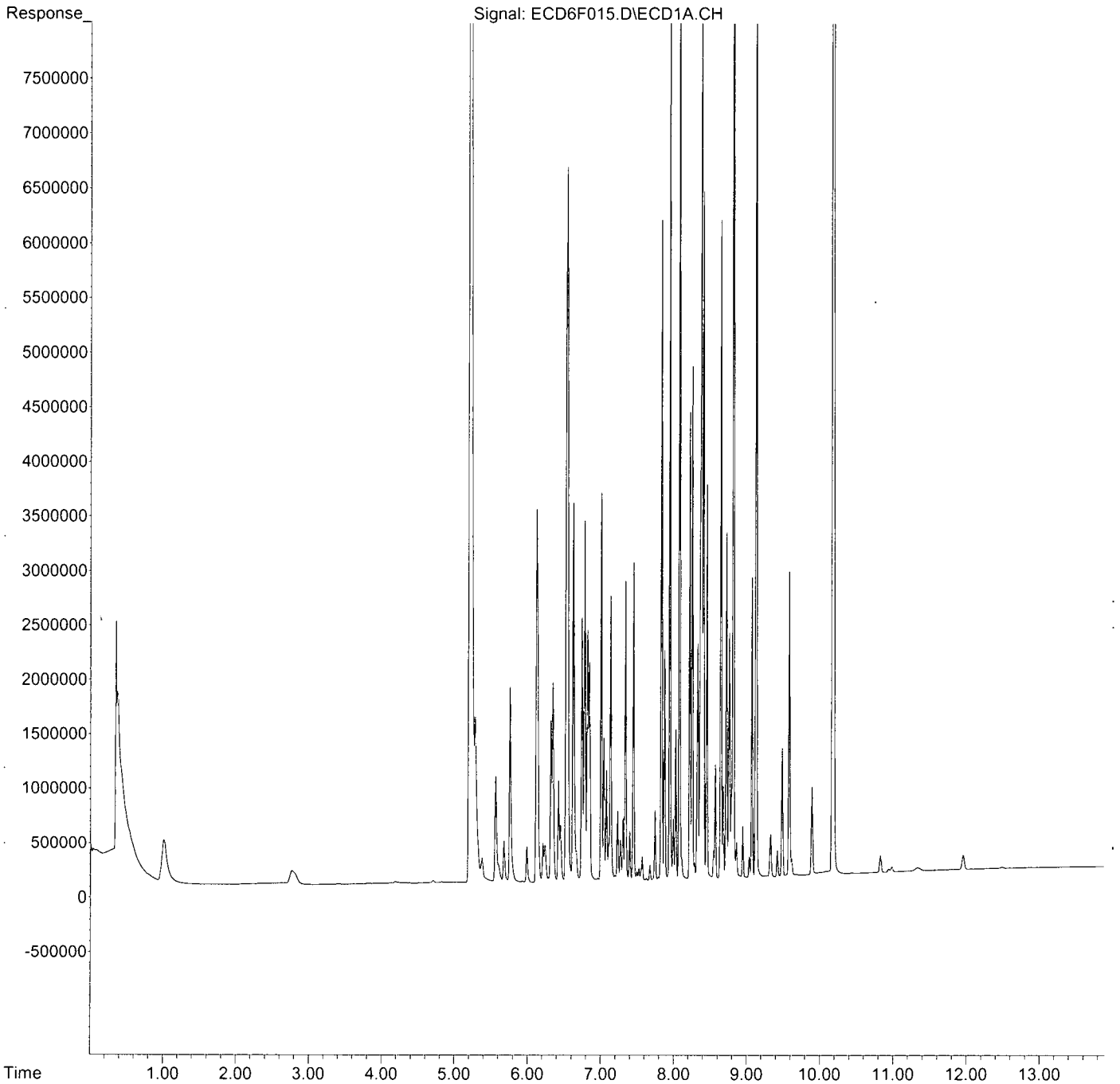
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F015.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 4:11 pm
Operator : MJB/KAK
Sample : 0C26027-ICV1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:15:57 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F023.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 6:33 pm
Operator : MJB/KAK
Sample : 0C26027-ICV2
Misc :
ALS Vial : 19 Sample Multiplier: 1

3/30/20

Integration File: PCB1.e
Quant Time: Mar 30 08:16:05 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1221, 1254

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	5.210	6898468	36.413	ng/ml	
62)	S DCBP (S)	10.180	13457684	78.380	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	6.124	775994	110.082	ng/ml	
3)	Aroclor 1016 (2)	6.540	939467	74.189	ng/ml	
4)	Aroclor 1016 (3)	6.624	575738	82.610	ng/ml	
5)	Aroclor 1016 (4)	6.780	3393215	496.477	ng/ml	
6)	Aroclor 1016 (5)	7.006	2029231	278.124	ng/ml	
7)	Aroclor 1016 (6)	7.135	964546	186.086	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.560	2329151	928.251	ng/ml	960.372
10)	Aroclor 1221 (2)	5.678	1478137	965.534	ng/ml	
11)	Aroclor 1221 (3)	5.760	4921905	987.330	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.760	4921905	1221.111	ng/ml	
14)	Aroclor 1232 (2)	6.540	939467	180.064	ng/ml	
15)	Aroclor 1232 (3)	6.624	575738	201.458	ng/ml	
16)	Aroclor 1232 (4)	6.780	3393215	1438.677	ng/ml	
17)	Aroclor 1232 (5)	7.006	2029231	739.959	ng/ml	
18)	Aroclor 1232 (6)	7.135	964546	419.857	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	6.124	775994	150.681	ng/ml	
21)	Aroclor 1242 (2)	6.540	939467	97.486	ng/ml	
22)	Aroclor 1242 (3)	6.624	575738	111.006	ng/ml	
23)	Aroclor 1242 (4)	6.780	3393215	715.723	ng/ml	
24)	Aroclor 1242 (5)	7.006	2029231	372.422	ng/ml	
25)	Aroclor 1242 (6)	7.135	964546	206.021	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.540	939467	155.718	ng/ml	
28)	Aroclor 1248 (2)	6.780	3393215	405.666	ng/ml	
29)	Aroclor 1248 (3)	7.006	2029231	229.344	ng/ml	
30)	Aroclor 1248 (4)	7.304	3159271	317.268	ng/ml	
31)	Aroclor 1248 (5)	7.337	5853461	600.712	ng/ml	
32)	Aroclor 1248 (6)	7.827	10663416	1816.230	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	7.337	5853461	522.323	ng/ml	499.610
35)	Aroclor 1254 (2)	7.447	6917687	501.078	ng/ml	
36)	Aroclor 1254 (3)	7.827	10663416	505.124	ng/ml	
37)	Aroclor 1254 (4)	7.994	6353465	474.928	ng/ml	
38)	Aroclor 1254 (5)	8.379	7191039	506.710	ng/ml	
39)	Aroclor 1254 (6)	8.679	2159098	487.495	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	7.945	3784159	266.007	ng/ml	
42)	Aroclor 1260 (2)	8.079	4665731	253.587	ng/ml	
43)	Aroclor 1260 (3)	8.646	579327	43.268	ng/ml	
44)	Aroclor 1260 (4)	8.816	1470989	44.884	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F023.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 6:33 pm
Operator : MJB/KAK
Sample : 0C26027-ICV2
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:05 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.131	1133529	58.212	ng/ml
46)	Aroclor 1260 (6)	9.583	67483	9.415	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.079	4665731	332.301	ng/ml
49)	Aroclor 1262 (2)	8.379	7191039	368.220	ng/ml
50)	Aroclor 1262 (3)	8.646	579327	35.492	ng/ml
51)	Aroclor 1262 (4)	8.816	1470989	39.982	ng/ml
52)	Aroclor 1262 (5)	9.131	1133529	56.136	ng/ml
53)	Aroclor 1262 (6)	9.583	67483	6.733	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.646	579327	63.548	ng/ml
56)	Aroclor 1268 (2)	9.072	63382	1.490	ng/ml
57)	Aroclor 1268 (3)	9.131	1133529	33.114	ng/ml
58)	Aroclor 1268 (4)	9.329	87827	2.874	ng/ml
59)	Aroclor 1268 (5)	9.583	67483	6.097	ng/ml
60)	Aroclor 1268 (6)	9.893	64599	0.781	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

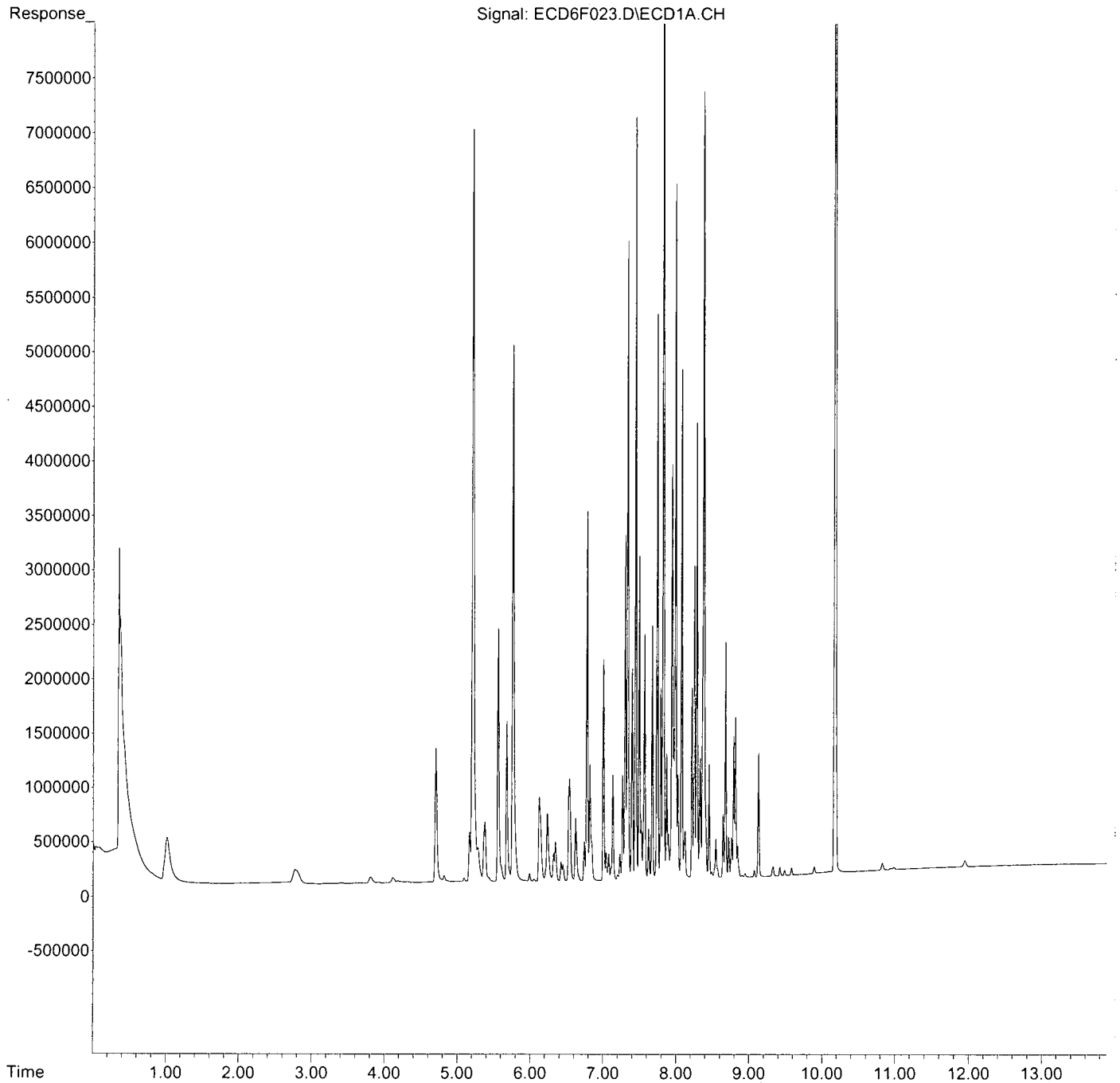
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F023.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 6:33 pm
Operator : MJB/KAK
Sample : 0C26027-ICV2
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:05 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F024.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 6:50 pm
Operator : MJB/KAK
Sample : 0C26027-ICV3
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:13 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20
1232, 1262

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.211	7027332	37.093	ng/ml
62)	S	DCBP (S)	10.179	14739337	85.845	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.122	1630316	231.276	ng/ml
3)		Aroclor 1016 (2)	6.540	2957927	233.586	ng/ml
4)		Aroclor 1016 (3)	6.624	1563333	224.315	ng/ml
5)		Aroclor 1016 (4)	6.779	1338143	195.790	ng/ml
6)		Aroclor 1016 (5)	7.006	1543359	211.531	ng/ml
7)		Aroclor 1016 (6)	7.135	1273683	245.727	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.560	845217	336.850	ng/ml
10)		Aroclor 1221 (2)	5.679	591878	386.621	ng/ml
11)		Aroclor 1221 (3)	5.760	2100990	421.457	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.760	2100990	521.250	ng/ml
14)		Aroclor 1232 (2)	6.540	2957927	566.933	ng/ml
15)		Aroclor 1232 (3)	6.624	1563333	547.030	ng/ml
16)		Aroclor 1232 (4)	6.779	1338143	567.354	ng/ml
17)		Aroclor 1232 (5)	7.006	1543359	562.786	ng/ml
18)		Aroclor 1232 (6)	7.135	1273683	554.422	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.122	1630316	316.571	ng/ml
21)		Aroclor 1242 (2)	6.540	2957927	306.936	ng/ml
22)		Aroclor 1242 (3)	6.624	1563333	301.421	ng/ml
23)		Aroclor 1242 (4)	6.779	1338143	282.251	ng/ml
24)		Aroclor 1242 (5)	7.006	1543359	283.251	ng/ml
25)		Aroclor 1242 (6)	7.135	1273683	272.051	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.540	2957927	490.281	ng/ml
28)		Aroclor 1248 (2)	6.779	1338143	159.978	ng/ml
29)		Aroclor 1248 (3)	7.006	1543359	174.431	ng/ml
30)		Aroclor 1248 (4)	7.304	1519260	152.571	ng/ml
31)		Aroclor 1248 (5)	7.341	2031181	208.450	ng/ml
32)		Aroclor 1248 (6)	7.832	5349717	911.182	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.341	2031181	181.249	ng/ml
35)		Aroclor 1254 (2)	7.447	1352905	97.997	ng/ml
36)		Aroclor 1254 (3)	7.832	5349717	253.415	ng/ml
37)		Aroclor 1254 (4)	7.994	496211	37.092	ng/ml
38)		Aroclor 1254 (5)	8.379	3751987	264.380	ng/ml
39)		Aroclor 1254 (6)	8.677	233656	52.756	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.945	5984544	420.683	ng/ml
42)		Aroclor 1260 (2)	8.079	7529756	409.249	ng/ml
43)		Aroclor 1260 (3)	8.645	8949361	668.394	ng/ml
44)		Aroclor 1260 (4)	8.816	20006380	610.453	ng/ml

553.296

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F024.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 6:50 pm
Operator : MJB/KAK
Sample : 0C26027-ICV3
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:13 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.128	10890715	559.286	ng/ml
46)	Aroclor 1260 (6)	9.582	5263174	734.283	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.079	7529756	536.282	ng/ml
49)	Aroclor 1262 (2)	8.408	10629258	544.275	ng/ml
50)	Aroclor 1262 (3)	8.645	8949361	548.279	ng/ml
51)	Aroclor 1262 (4)	8.816	20006380	543.779	ng/ml
52)	Aroclor 1262 (5)	9.128	10890715	539.345	ng/ml
53)	Aroclor 1262 (6)	9.582	5263174	525.141	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.645	8949361	981.673	ng/ml
56)	Aroclor 1268 (2)	9.072	6791578	159.657	ng/ml
57)	Aroclor 1268 (3)	9.128	10890715	318.156	ng/ml
58)	Aroclor 1268 (4)	9.330	487939	15.966	ng/ml
59)	Aroclor 1268 (5)	9.582	5263174	475.544	ng/ml
60)	Aroclor 1268 (6)	9.892	1612155	19.495	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

539.517

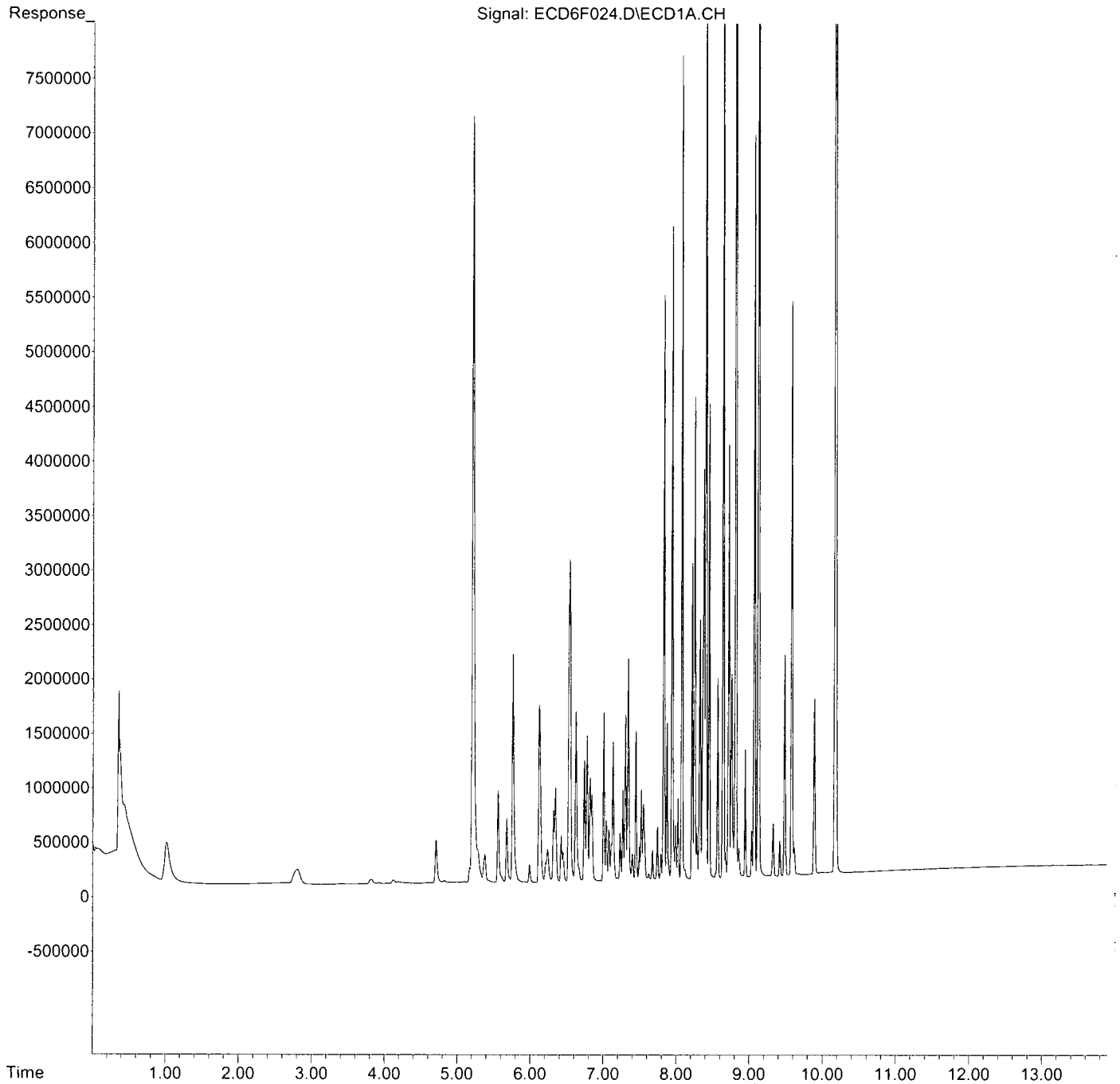
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F024.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 6:50 pm
Operator : MJB/KAK
Sample : 0C26027-ICV3
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:13 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F025.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 7:08 pm
Operator : MJB/KAK
Sample : 0C26027-ICV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:21 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

1242, 1268

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.211	7067986	37.308	ng/ml
62) S	DCBP (S)	10.179	6489060	37.794	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	2856565	405.231	ng/ml
3)	Aroclor 1016 (2)	6.540	5342541	421.897	ng/ml
4)	Aroclor 1016 (3)	6.624	2823228	405.092	ng/ml
5)	Aroclor 1016 (4)	6.779	2610766	381.993	ng/ml
6)	Aroclor 1016 (5)	7.006	2832472	388.215	ng/ml
7)	Aroclor 1016 (6)	7.135	2469960	476.520	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.560	315132	125.591	ng/ml
10)	Aroclor 1221 (2)	5.679	336489	219.798	ng/ml
11)	Aroclor 1221 (3)	5.760	1527523	306.420	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.760	1527523	378.974	ng/ml
14)	Aroclor 1232 (2)	6.540	5342541	1023.982	ng/ml
15)	Aroclor 1232 (3)	6.624	2823228	987.884	ng/ml
16)	Aroclor 1232 (4)	6.779	2610766	1106.929	ng/ml
17)	Aroclor 1232 (5)	7.006	2832472	1032.860	ng/ml
18)	Aroclor 1232 (6)	7.135	2469960	1075.150	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.122	2856565	554.681	ng/ml
21)	Aroclor 1242 (2)	6.540	5342541	554.381	ng/ml
22)	Aroclor 1242 (3)	6.624	2823228	544.337	ng/ml
23)	Aroclor 1242 (4)	6.779	2610766	550.683	ng/ml
24)	Aroclor 1242 (5)	7.006	2832472	519.840	ng/ml
25)	Aroclor 1242 (6)	7.135	2469960	527.568	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.540	5342541	885.534	ng/ml
28)	Aroclor 1248 (2)	6.779	2610766	312.123	ng/ml
29)	Aroclor 1248 (3)	7.006	2832472	320.127	ng/ml
30)	Aroclor 1248 (4)	7.303	2785578	279.740	ng/ml
31)	Aroclor 1248 (5)	7.344	2906616	298.292	ng/ml
32)	Aroclor 1248 (6)	7.825	959323	163.395	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.344	2906616	259.366	ng/ml
35)	Aroclor 1254 (2)	7.447	687809	49.821	ng/ml
36)	Aroclor 1254 (3)	7.825	959323	45.443	ng/ml
37)	Aroclor 1254 (4)	7.994	616686	46.098	ng/ml
38)	Aroclor 1254 (5)	8.379	121846	8.586	ng/ml
39)	Aroclor 1254 (6)	8.676	53646	12.112	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.949	137690	9.679	ng/ml
42)	Aroclor 1260 (2)	8.077	130499	7.093	ng/ml
43)	Aroclor 1260 (3)	8.636	4750572	354.802	ng/ml
44)	Aroclor 1260 (4)	8.815	2129802	64.987	ng/ml

541.915

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F025.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 7:08 pm
Operator : MJB/KAK
Sample : 0C26027-ICV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:21 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.123	17312014	889.048 ng/ml
46)	Aroclor 1260 (6)	9.581	6004646	837.728 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.077	130499	9.294 ng/ml
49)	Aroclor 1262 (2)	8.408	3953761	202.454 ng/ml
50)	Aroclor 1262 (3)	8.636	4750572	291.042 ng/ml
51)	Aroclor 1262 (4)	8.815	2129802	57.889 ng/ml
52)	Aroclor 1262 (5)	9.123	17312014	857.350 ng/ml
53)	Aroclor 1262 (6)	9.581	6004646	599.123 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.636	4750572	521.099 ng/ml
56)	Aroclor 1268 (2)	9.072	21758132	511.493 ng/ml
57)	Aroclor 1268 (3)	9.123	17312014	505.745 ng/ml
58)	Aroclor 1268 (4)	9.331	14692577	480.761 ng/ml
59)	Aroclor 1268 (5)	9.581	6004646	542.538 ng/ml
60)	Aroclor 1268 (6)	9.893	41658962	503.749 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

510.898

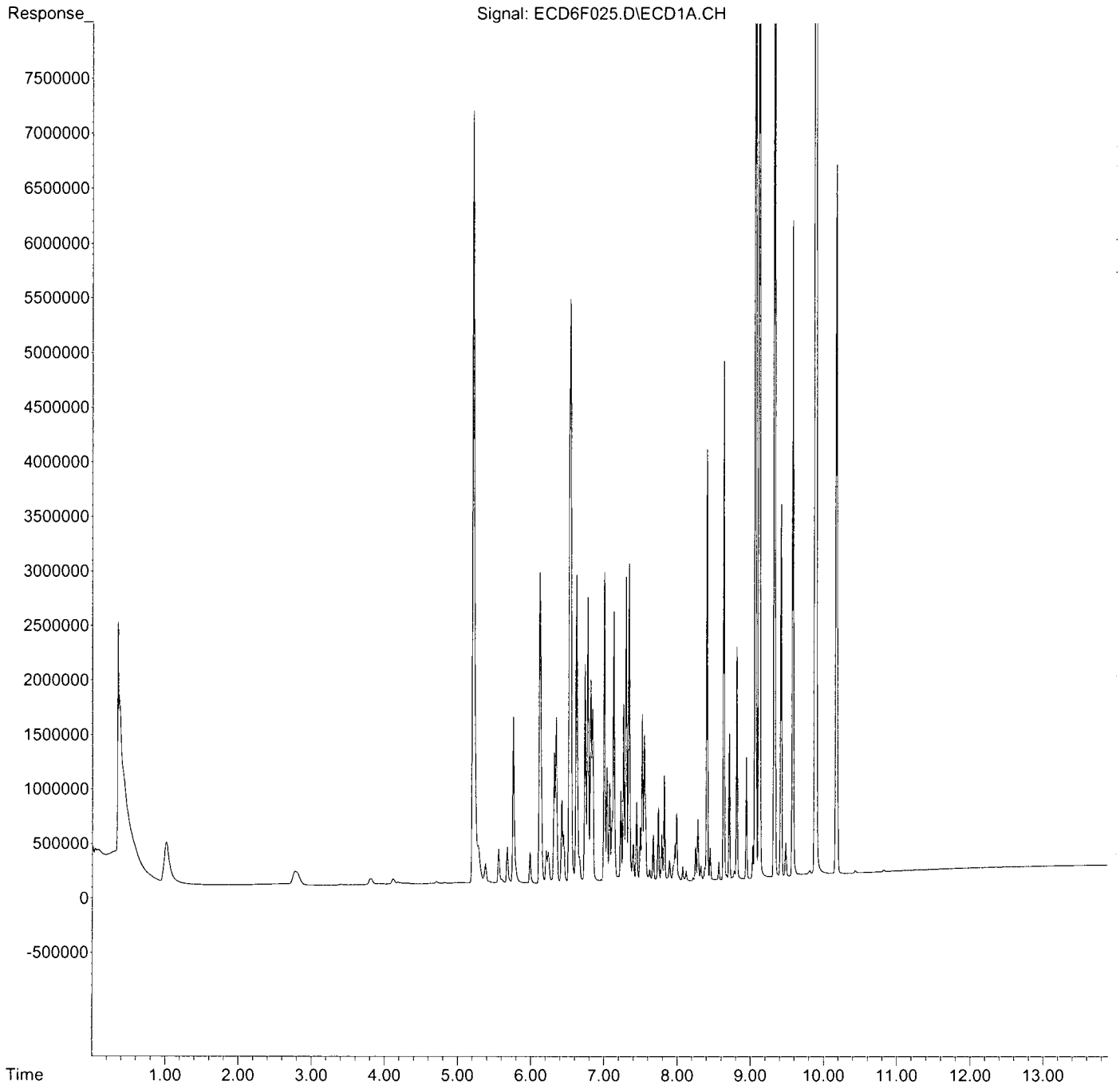
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F025.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 7:08 pm
Operator : MJB/KAK
Sample : 0C26027-ICV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:21 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F026.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 7:26 pm
Operator : MJB/KAK
Sample : 0C26027-ICV5
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:29 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20
1248

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.213	8483	0.045	ng/ml
62)	S DCBP (S)	10.184	54301	0.316	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.121	1374895	195.042	ng/ml
3)	Aroclor 1016 (2)	6.537	2910394	229.832	ng/ml
4)	Aroclor 1016 (3)	6.624	1575364	226.041	ng/ml
5)	Aroclor 1016 (4)	6.780	4287343	627.300	ng/ml
6)	Aroclor 1016 (5)	7.006	4632788	634.965	ng/ml
7)	Aroclor 1016 (6)	7.135	3645318	703.278	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.562	30584	12.189	ng/ml
10)	Aroclor 1221 (2)	5.679	32630	21.314	ng/ml
11)	Aroclor 1221 (3)	5.761	161377	32.372	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.761	161377	40.037	ng/ml
14)	Aroclor 1232 (2)	6.537	2910394	557.823	ng/ml
15)	Aroclor 1232 (3)	6.624	1575364	551.240	ng/ml
16)	Aroclor 1232 (4)	6.780	4287343	1817.775	ng/ml
17)	Aroclor 1232 (5)	7.006	4632788	1689.345	ng/ml
18)	Aroclor 1232 (6)	7.135	3645318	1586.771	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.121	1374895	266.974	ng/ml
21)	Aroclor 1242 (2)	6.537	2910394	302.004	ng/ml
22)	Aroclor 1242 (3)	6.624	1575364	303.740	ng/ml
23)	Aroclor 1242 (4)	6.780	4287343	904.319	ng/ml
24)	Aroclor 1242 (5)	7.006	4632788	850.250	ng/ml
25)	Aroclor 1242 (6)	7.135	3645318	778.617	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.537	2910394	482.402	ng/ml
28)	Aroclor 1248 (2)	6.780	4287343	512.561	ng/ml
29)	Aroclor 1248 (3)	7.006	4632788	523.599	ng/ml
30)	Aroclor 1248 (4)	7.304	5229744	525.195	ng/ml
31)	Aroclor 1248 (5)	7.343	5123491	525.799	ng/ml
32)	Aroclor 1248 (6)	7.826	2898706	493.718	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.343	5123491	457.185	ng/ml
35)	Aroclor 1254 (2)	7.448	1835487	132.952	ng/ml
36)	Aroclor 1254 (3)	7.826	2898706	137.311	ng/ml
37)	Aroclor 1254 (4)	7.994	1971670	147.384	ng/ml
38)	Aroclor 1254 (5)	8.380	451646	31.825	ng/ml
39)	Aroclor 1254 (6)	8.678	167075	37.723	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.950	402214	28.274	ng/ml
42)	Aroclor 1260 (2)	8.079	290063	15.765	ng/ml
43)	Aroclor 1260 (3)	8.645	42159	3.149	ng/ml
44)	Aroclor 1260 (4)	8.816	103171	3.148	ng/ml

510.546

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F026.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 7:26 pm
Operator : MJB/KAK
Sample : 0C26027-ICV5
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:29 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.130	83548	4.291 ng/ml
46)	Aroclor 1260 (6)	9.583	45123	6.295 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.079	290063	20.659 ng/ml
49)	Aroclor 1262 (2)	8.380	451646	23.127 ng/ml
50)	Aroclor 1262 (3)	8.645	42159	2.583 ng/ml
51)	Aroclor 1262 (4)	8.816	103171	2.804 ng/ml
52)	Aroclor 1262 (5)	9.130	83548	4.138 ng/ml
53)	Aroclor 1262 (6)	9.583	45123	4.502 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.645	42159	4.624 ng/ml
56)	Aroclor 1268 (2)	9.072	31374	0.738 ng/ml
57)	Aroclor 1268 (3)	9.130	83548	2.441 ng/ml
58)	Aroclor 1268 (4)	9.331	21828	0.714 ng/ml
59)	Aroclor 1268 (5)	9.583	45123	4.077 ng/ml
60)	Aroclor 1268 (6)	9.893	50894	0.615 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

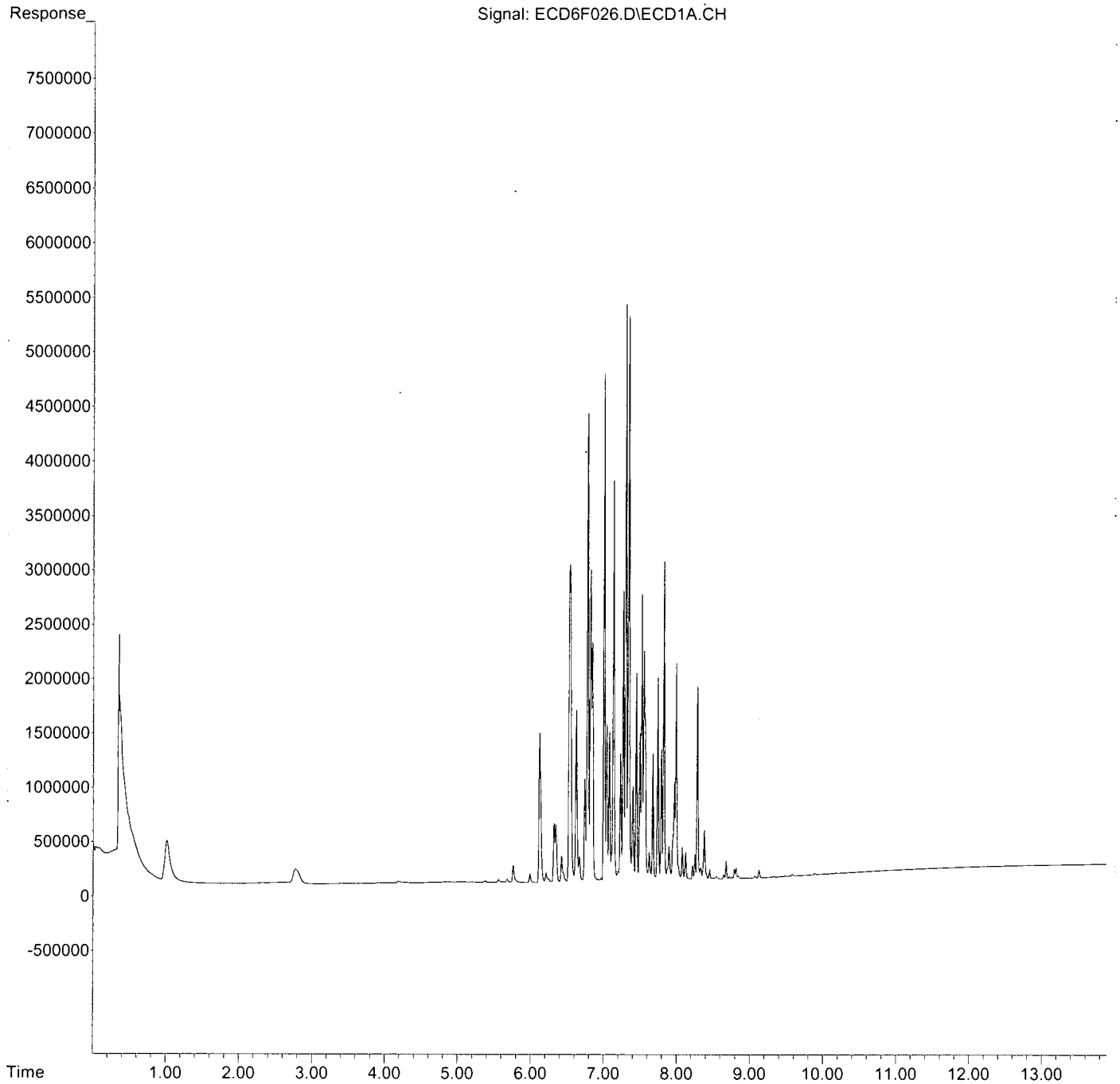
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F026.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 7:26 pm
Operator : MJB/KAK
Sample : 0C26027-ICV5
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:16:29 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F007.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26027-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:56:49 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.212	1658764	8.756	ng/ml
62)	S DCBP (S)	10.179	1586322	9.239	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.123	163303	23.166	ng/ml
3)	Aroclor 1016 (2)	6.541	253985	20.057	ng/ml
4)	Aroclor 1016 (3)	6.625	152993	21.952	ng/ml
5)	Aroclor 1016 (4)	6.780	156013	22.827	ng/ml
6)	Aroclor 1016 (5)	7.008	161937	22.195	ng/ml
7)	Aroclor 1016 (6)	7.136	113619	21.920	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.946	307228	21.597	ng/ml
42)	Aroclor 1260 (2)	8.080	394359	21.434	ng/ml
43)	Aroclor 1260 (3)	8.645	282270	21.082	ng/ml
44)	Aroclor 1260 (4)	8.816	634184	19.351	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F007.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26027-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:56:49 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.130	381232	19.578	ng/ml
46)	Aroclor 1260 (6)	9.582	148567	20.727	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

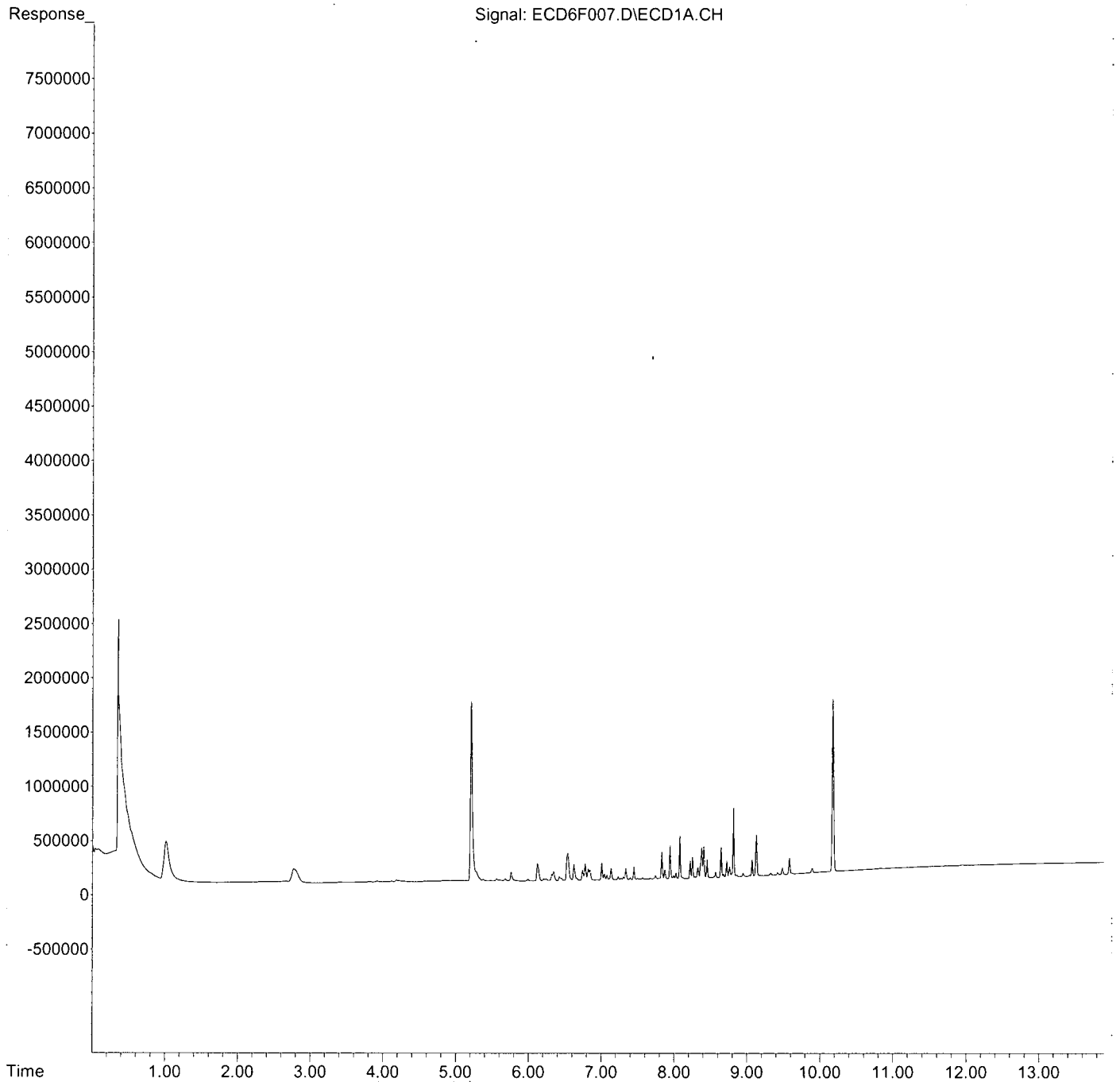
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F007.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26027-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:56:49 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F008.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26027-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:58:25 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.212	4165118	21.985	ng/ml
62) S	DCBP (S)	10.180	3920684	22.835	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	379894	53.892	ng/ml
3)	Aroclor 1016 (2)	6.542	629234	49.690	ng/ml
4)	Aroclor 1016 (3)	6.625	368385	52.858	ng/ml
5)	Aroclor 1016 (4)	6.780	367924	53.833	ng/ml
6)	Aroclor 1016 (5)	7.007	385016	52.770	ng/ml
7)	Aroclor 1016 (6)	7.136	271302	52.341	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.945	708025	49.771	ng/ml
42)	Aroclor 1260 (2)	8.079	936692	50.910	ng/ml
43)	Aroclor 1260 (3)	8.645	681087	50.868	ng/ml
44)	Aroclor 1260 (4)	8.816	1571083	47.938	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F008.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26027-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:58:25 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.130	956739	49.133	ng/ml
46)	Aroclor 1260 (6)	9.582	364740	50.886	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

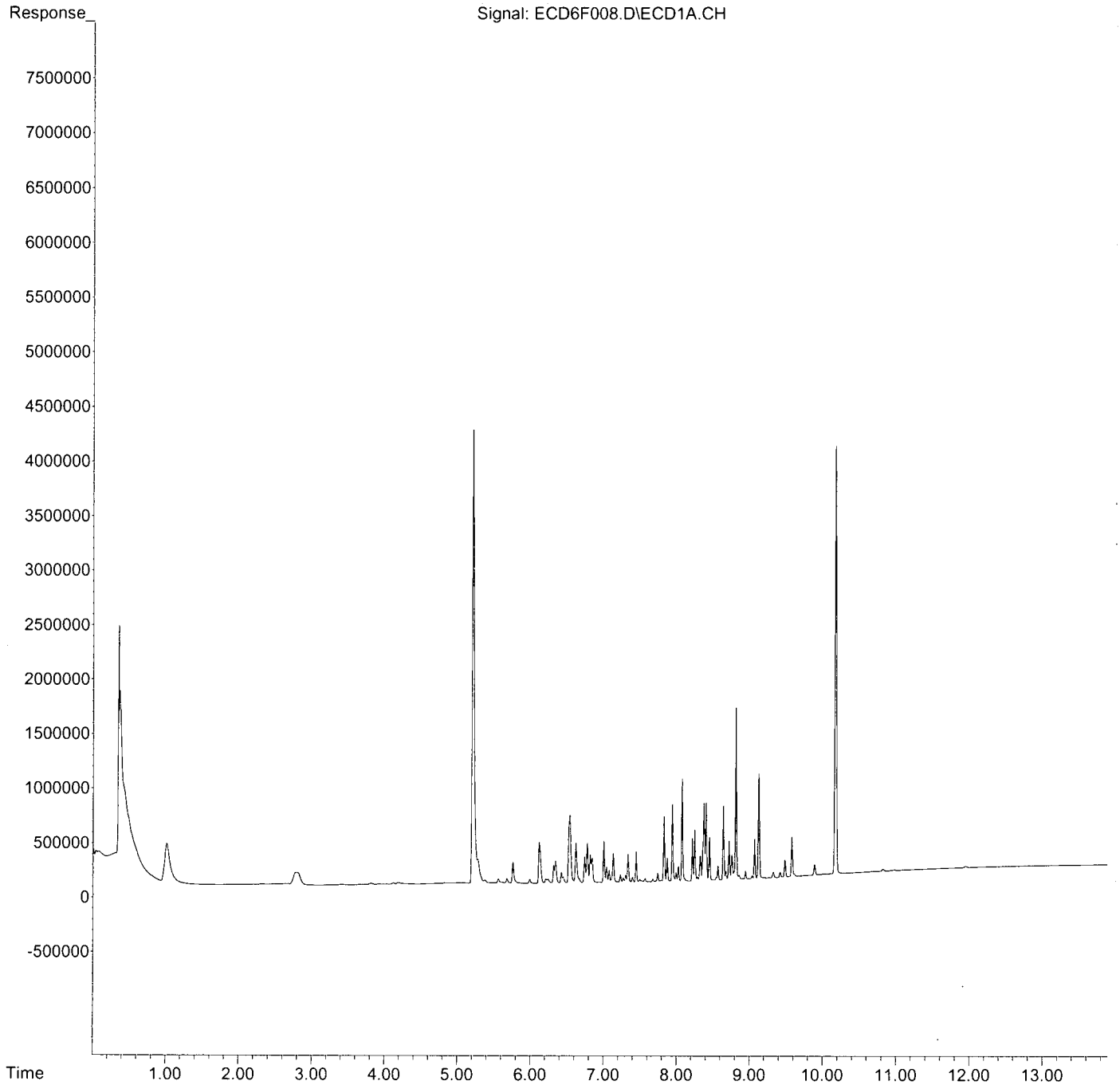
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F008.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26027-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:58:25 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F009.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26027-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:00:45 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.212	8746160	46.166	ng/ml
62)	S DCBP (S)	10.179	8171698	47.594	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	733569	104.064	ng/ml
3)	Aroclor 1016 (2)	6.541	1285823	101.541	ng/ml
4)	Aroclor 1016 (3)	6.624	695611	99.810	ng/ml
5)	Aroclor 1016 (4)	6.780	710928	104.019	ng/ml
6)	Aroclor 1016 (5)	7.007	730989	100.189	ng/ml
7)	Aroclor 1016 (6)	7.136	537665	103.730	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.945	1428337	100.405	ng/ml
42)	Aroclor 1260 (2)	8.079	1849257	100.509	ng/ml
43)	Aroclor 1260 (3)	8.645	1391466	103.923	ng/ml
44)	Aroclor 1260 (4)	8.816	3203039	97.734	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F009.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26027-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:00:45 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.129	1922604	98.734	ng/ml
46)	Aroclor 1260 (6)	9.582	736893	102.806	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

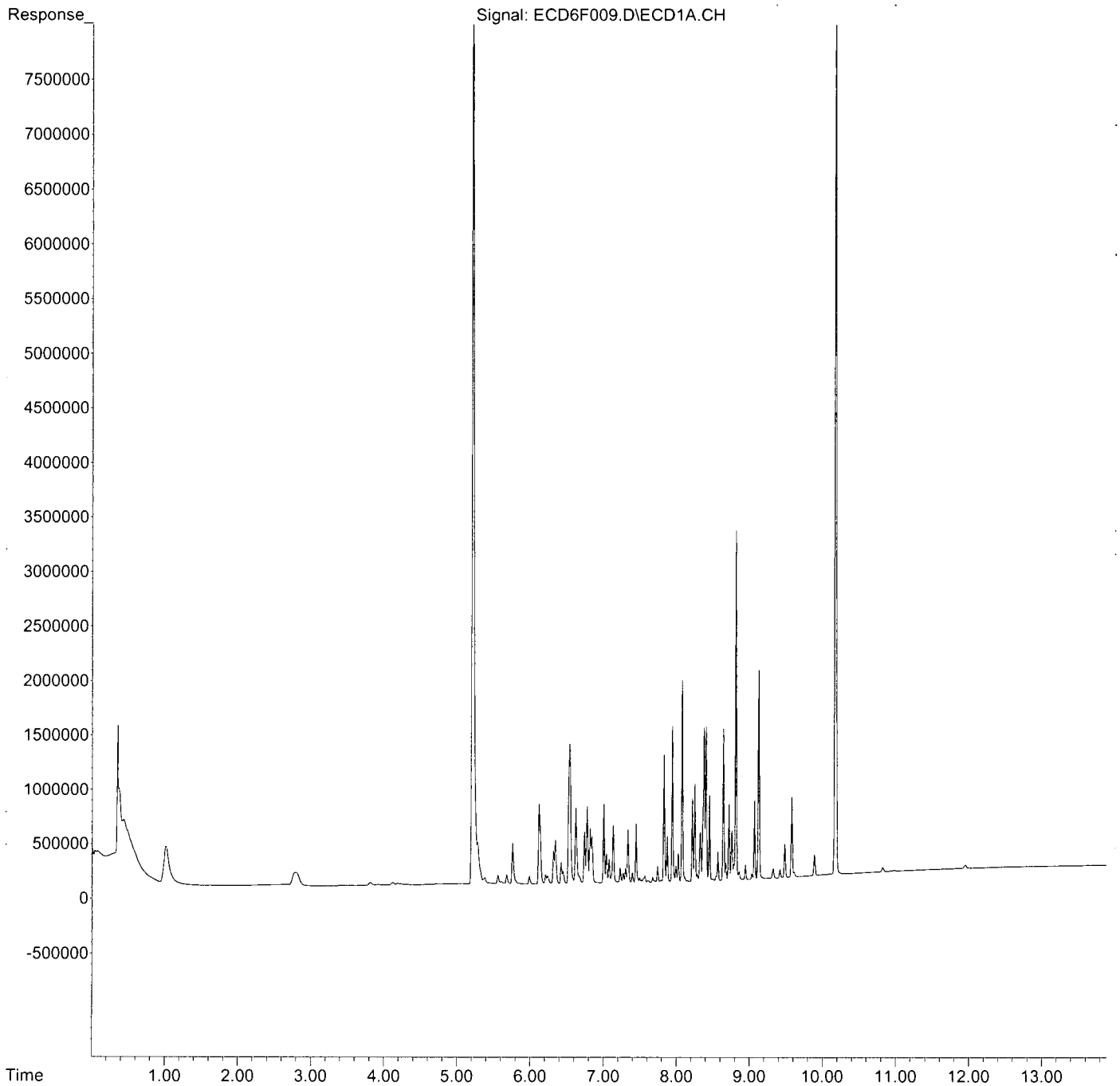
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F009.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26027-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:00:45 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F010.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26027-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:05:40 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.211	17276976	91.195	ng/ml
62)	S DCBP (S)	10.180	16193673	94.315	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	1331459	188.880	ng/ml
3)	Aroclor 1016 (2)	6.541	2396080	189.217	ng/ml
4)	Aroclor 1016 (3)	6.624	1325814	190.235	ng/ml
5)	Aroclor 1016 (4)	6.780	1293424	189.247	ng/ml
6)	Aroclor 1016 (5)	7.006	1388433	190.297	ng/ml
7)	Aroclor 1016 (6)	7.136	980853	189.232	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.945	2716723	190.972	ng/ml
42)	Aroclor 1260 (2)	8.079	3514676	191.026	ng/ml
43)	Aroclor 1260 (3)	8.646	2585656	193.113	ng/ml
44)	Aroclor 1260 (4)	8.816	6256303	190.898	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F010.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26027-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:05:40 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.129	3707238	190.383	ng/ml
46)	Aroclor 1260 (6)	9.582	1396858	194.880	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

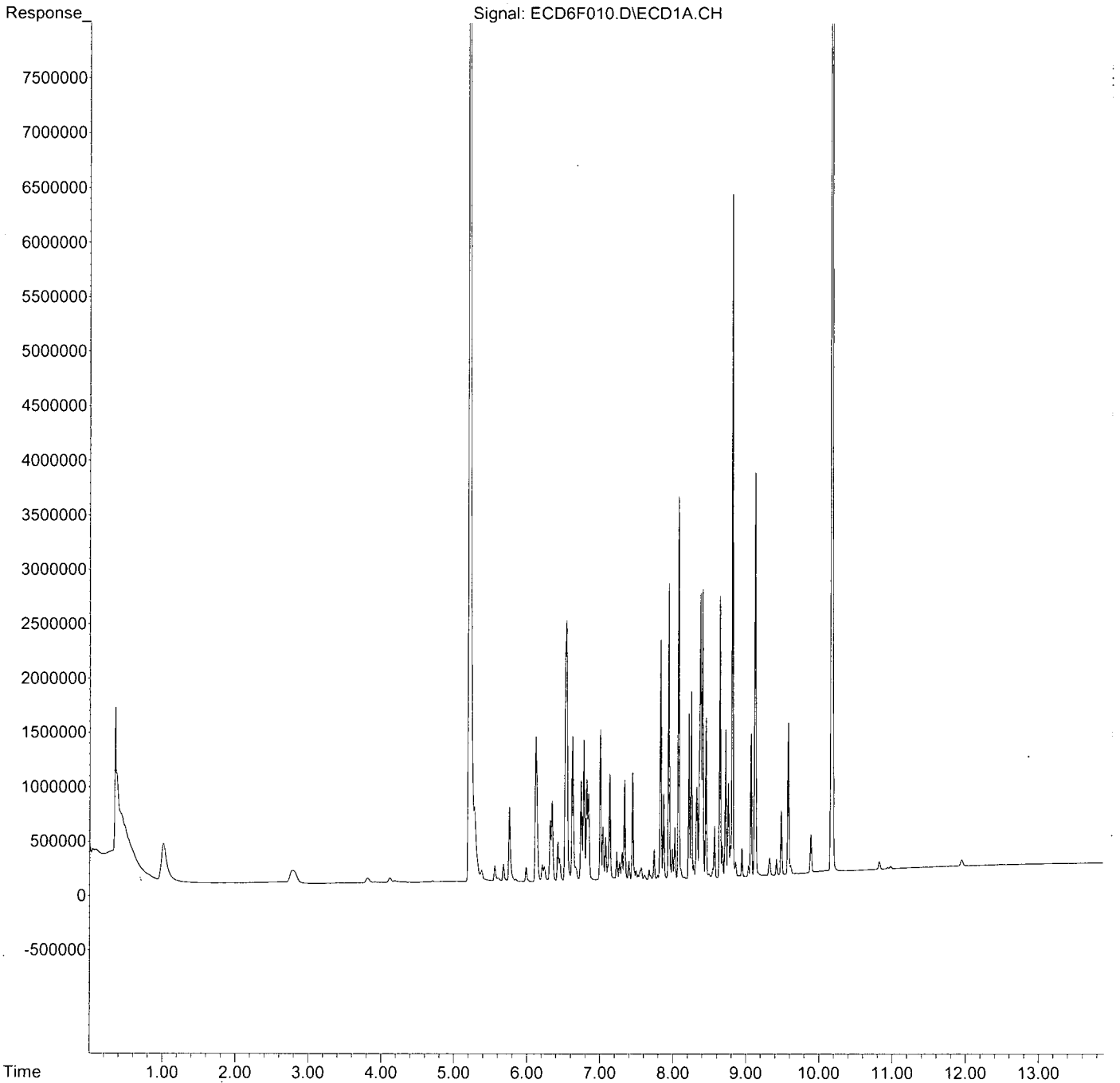
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F010.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26027-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:05:40 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F011.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26027-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:06:51 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.212	45242416	238.807	ng/ml
62) S	DCBP (S)	10.180	40809032	237.680	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	3298988	467.993	ng/ml
3)	Aroclor 1016 (2)	6.540	6276235	495.631	ng/ml
4)	Aroclor 1016 (3)	6.623	3403040	488.286	ng/ml
5)	Aroclor 1016 (4)	6.779	3225845	471.988	ng/ml
6)	Aroclor 1016 (5)	7.006	3544727	485.836	ng/ml
7)	Aroclor 1016 (6)	7.135	2494841	481.321	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.944	7021799	493.597	ng/ml
42)	Aroclor 1260 (2)	8.078	9152661	497.455	ng/ml
43)	Aroclor 1260 (3)	8.645	6619136	494.358	ng/ml
44)	Aroclor 1260 (4)	8.816	16189542	493.990	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F011.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26027-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:06:51 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.129	9683013	497.265	ng/ml
46)	Aroclor 1260 (6)	9.582	3446149	480.784	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

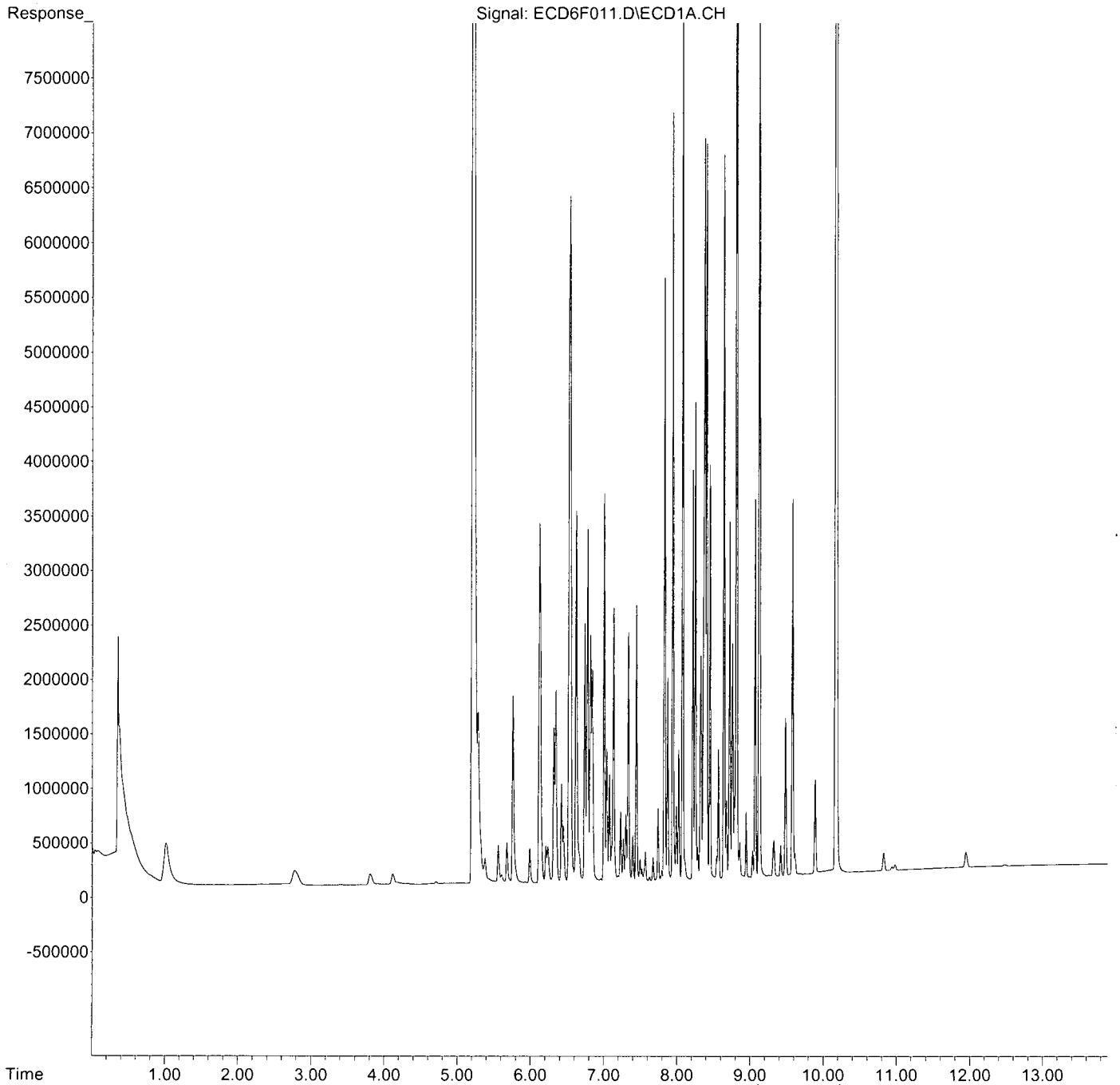
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F011.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26027-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:06:51 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F012.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26027-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:08:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	5.213	113424476	598.698	ng/ml	✓
62)	S DCBP (S)	10.181	100300268	584.169	ng/ml	✓
	Target Compounds					
2)	Aroclor 1016 (1)	6.122	6626227	939.993	ng/ml	
3)	Aroclor 1016 (2)	6.540	12970595	1024.280	ng/ml	
4)	Aroclor 1016 (3)	6.623	6668552	956.839	ng/ml	✓
5)	Aroclor 1016 (4)	6.779	6426720	940.322	ng/ml	
6)	Aroclor 1016 (5)	7.006	7100299	973.159	ng/ml	
7)	Aroclor 1016 (6)	7.135	4961279	957.162	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld	
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld	
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld	
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld	
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld	
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld	
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld	
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld	
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld	
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld	
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld	
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld	
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld	
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld	
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld	
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld	
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld	
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld	
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld	
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld	
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld	
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld	
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld	
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld	
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld	
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld	
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld	
41)	Aroclor 1260 (1)	7.945	14113355	992.098	ng/ml	
42)	Aroclor 1260 (2)	8.078	17711364	962.628	ng/ml	✓
43)	Aroclor 1260 (3)	8.644	12925750	965.375	ng/ml	
44)	Aroclor 1260 (4)	8.816	34191079	1043.270	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F012.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26027-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:08:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.130	20280067	1041.470	ng/ml
46)	Aroclor 1260 (6)	9.582	7107312	991.565	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

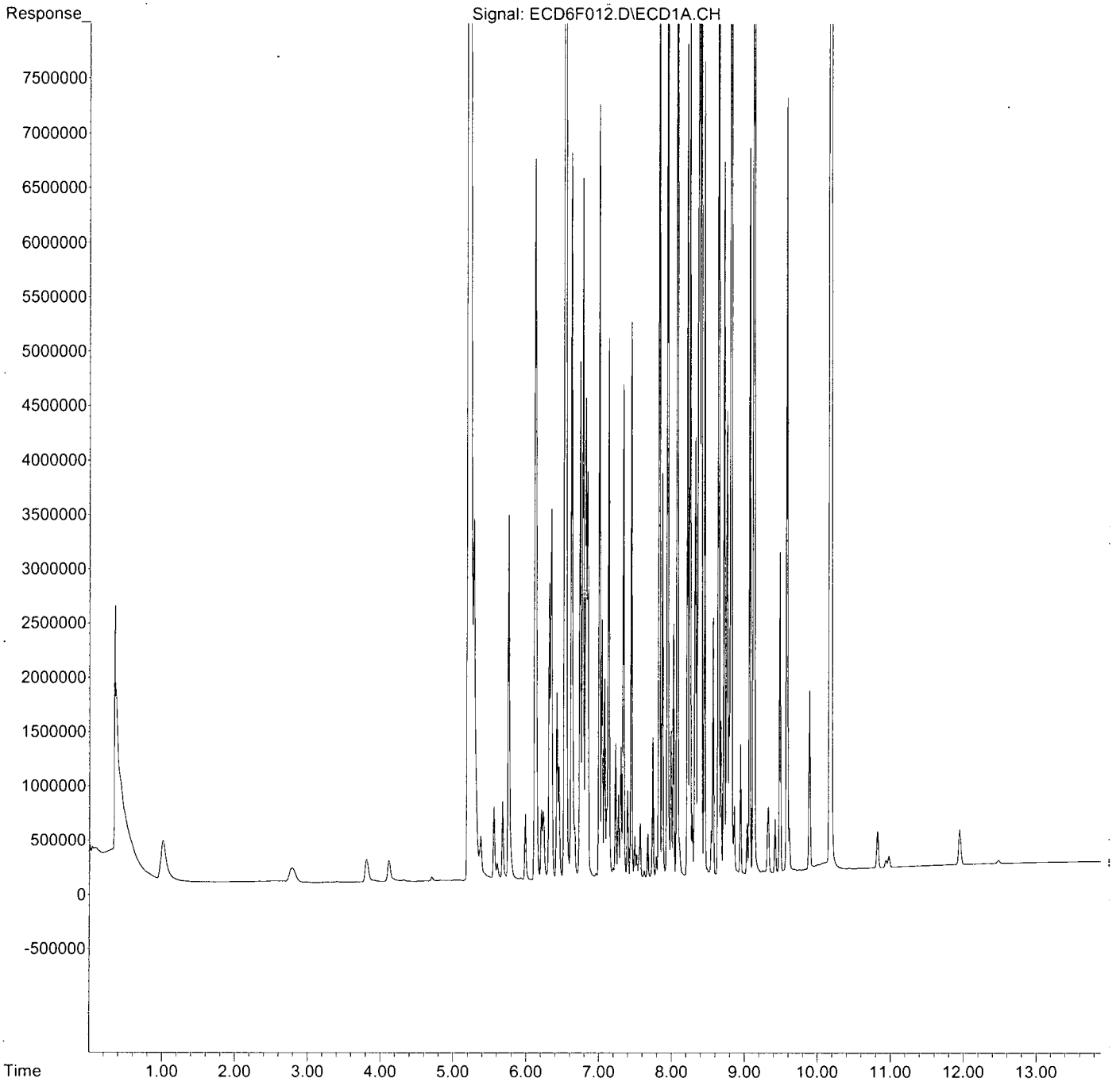
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F012.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26027-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:08:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F013.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:35 am
Operator : MJB/KAK
Sample : 0C26027-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:09:06 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.216	190535941	1005.723	ng/ml
62)	S DCBP (S)	10.183	157771630	918.894	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	9546609	1354.276	ng/ml
3)	Aroclor 1016 (2)	6.540	19494437	1539.464	ng/ml
4)	Aroclor 1016 (3)	6.623	10062492	1443.819	ng/ml
5)	Aroclor 1016 (4)	6.779	9342297	1366.914	ng/ml
6)	Aroclor 1016 (5)	7.006	10250958	1404.985	ng/ml
7)	Aroclor 1016 (6)	7.136	7416618	1430.861	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.945	21051788	1479.835	ng/ml
42)	Aroclor 1260 (2)	8.079	27387511	1488.535	ng/ml
43)	Aroclor 1260 (3)	8.645	19474921	1454.508	ng/ml
44)	Aroclor 1260 (4)	8.817	54597104	1665.917	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F013.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:35 am
Operator : MJB/KAK
Sample : 0C26027-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:09:06 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.130	31054519	1594.786	ng/ml
46)	Aroclor 1260 (6)	9.582	10647710	1485.497	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

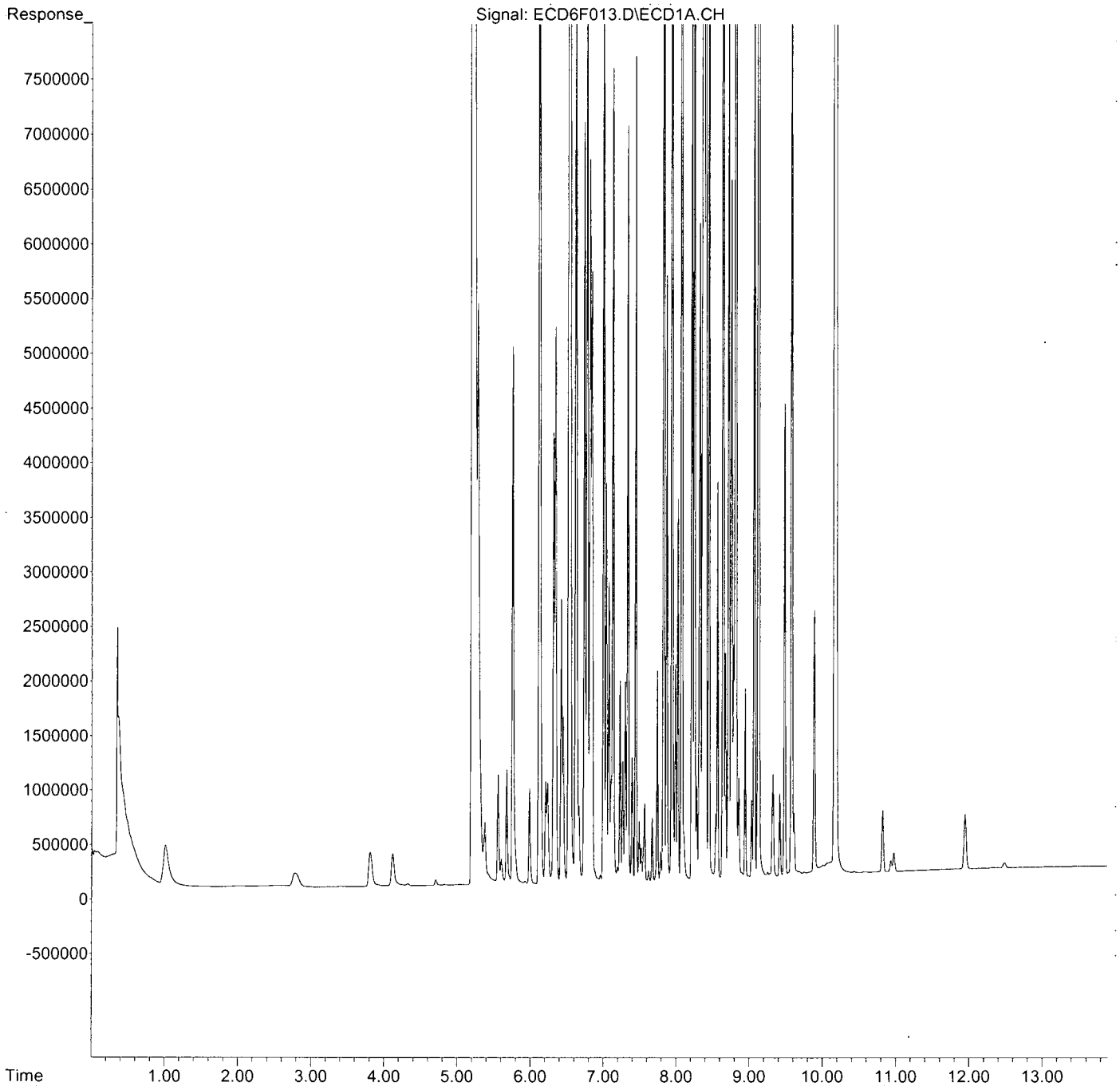
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\requant\
Data File : ECD6F013.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:35 am
Operator : MJB/KAK
Sample : 0C26027-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 08:09:06 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:42:15 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Sequence: C:\HPCHEM\1\SEQUENCE\0C25000.S

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	Isooctane	E6A71717	1	Sample		
2	Vial 1	Isooctane	E6A71717	1	Sample		
3	Vial 2	0C26027-CCV1	E6A71717	1	Sample		
4	Vial 3	0C26027-CCB1	E6A71717	1	Sample		
5	Vial 1	Isooctane	E6A71717	1	Sample		
6	Vial 3	0C26027-ICB1	E6A71717	1	Sample		
7	Vial 4	0C26027-CAL1	E6A71717	1	Sample		
8	Vial 5	0C26027-CAL2	E6A71717	1	Sample		
9	Vial 6	0C26027-CAL3	E6A71717	1	Sample		
10	Vial 7	0C26027-CAL4	E6A71717	1	Sample		
11	Vial 8	0C26027-CAL5	E6A71717	1	Sample		
12	Vial 9	0C26027-CAL6	E6A71717	1	Sample		
13	Vial 10	0C26027-CAL7	E6A71717	1	Sample		
14	Vial 1	0C26027-IBL1	E6A71717	1	Sample		
15	Vial 11	0C26027-ICV1	E6A71717	1	Sample		
16	Vial 12	0C26027-CAL8	E6A71717	1	Sample		
17	Vial 13	0C26027-CAL9	E6A71717	1	Sample		
18	Vial 14	0C26027-CALA	E6A71717	1	Sample		
19	Vial 15	0C26027-CALB	E6A71717	1	Sample		
20	Vial 16	0C26027-CALC	E6A71717	1	Sample		
21	Vial 17	0C26027-CALD	E6A71717	1	Sample		
22	Vial 18	0C26027-CALE	E6A71717	1	Sample		
23	Vial 19	0C26027-ICV2	E6A71717	1	Sample		
24	Vial 20	0C26027-ICV3	E6A71717	1	Sample		
25	Vial 21	0C26027-ICV4	E6A71717	1	Sample		
26	Vial 22	0C26027-ICV5	E6A71717	1	Sample		

3/26/20

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 51	Isooctane	E6A71717	1	Sample		
2	Vial 52	0C26028-CCV1	E6A71717	1	Sample		
3	Vial 53	0C26028-CCB1	E6A71717	1	Sample		
4	Vial 51	Isooctane	E6A71717	1	Sample		
5	Vial 53	0C26028-ICB1	E6A71717	1	Sample		
6	Vial 4	0C26028-CAL1	E6A71717	1	Sample		
7	Vial 5	0C26028-CAL2	E6A71717	1	Sample		
8	Vial 6	0C26028-CAL3	E6A71717	1	Sample		
9	Vial 7	0C26028-CAL4	E6A71717	1	Sample		
10	Vial 8	0C26028-CAL5	E6A71717	1	Sample		
11	Vial 9	0C26028-CAL6	E6A71717	1	Sample		
12	Vial 10	0C26028-CAL7	E6A71717	1	Sample		
13	Vial 51	0C26028-IBL1	E6A71717	1	Sample		
14	Vial 11	0C26028-ICV1	E6A71717	1	Sample		
15	Vial 12	0C26028-CAL8	E6A71717	1	Sample		
16	Vial 13	0C26028-CAL9	E6A71717	1	Sample		
17	Vial 14	0C26028-CALA	E6A71717	1	Sample		
18	Vial 15	0C26028-CALB	E6A71717	1	Sample		
19	Vial 16	0C26028-CALC	E6A71717	1	Sample		
20	Vial 17	0C26028-CALD	E6A71717	1	Sample		
21	Vial 18	0C26028-CALE	E6A71717	1	Sample		
22	Vial 19	0C26028-ICV2	E6A71717	1	Sample		
23	Vial 20	0C26028-ICV3	E6A71717	1	Sample		

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F007.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26027-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:09:51 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.212	1658764	10.234	ng/ml
62)	S DCBP (S)	10.179	1586322	11.715	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.123	163303	28.074	ng/ml
3)	Aroclor 1016 (2)	6.541	253985	24.763	ng/ml
4)	Aroclor 1016 (3)	6.625	152993	27.295	ng/ml
5)	Aroclor 1016 (4)	6.780	156013	28.007	ng/ml
6)	Aroclor 1016 (5)	7.008	161937	27.636	ng/ml
7)	Aroclor 1016 (6)	7.136	113619	27.534	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.946	307228	26.098	ng/ml
42)	Aroclor 1260 (2)	8.080	394359	27.054	ng/ml
43)	Aroclor 1260 (3)	8.645	282270	25.884	ng/ml
44)	Aroclor 1260 (4)	8.816	634184	24.435	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F007.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26027-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:09:51 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.130	381232	24.438	ng/ml
46)	Aroclor 1260 (6)	9.582	148567	24.922	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

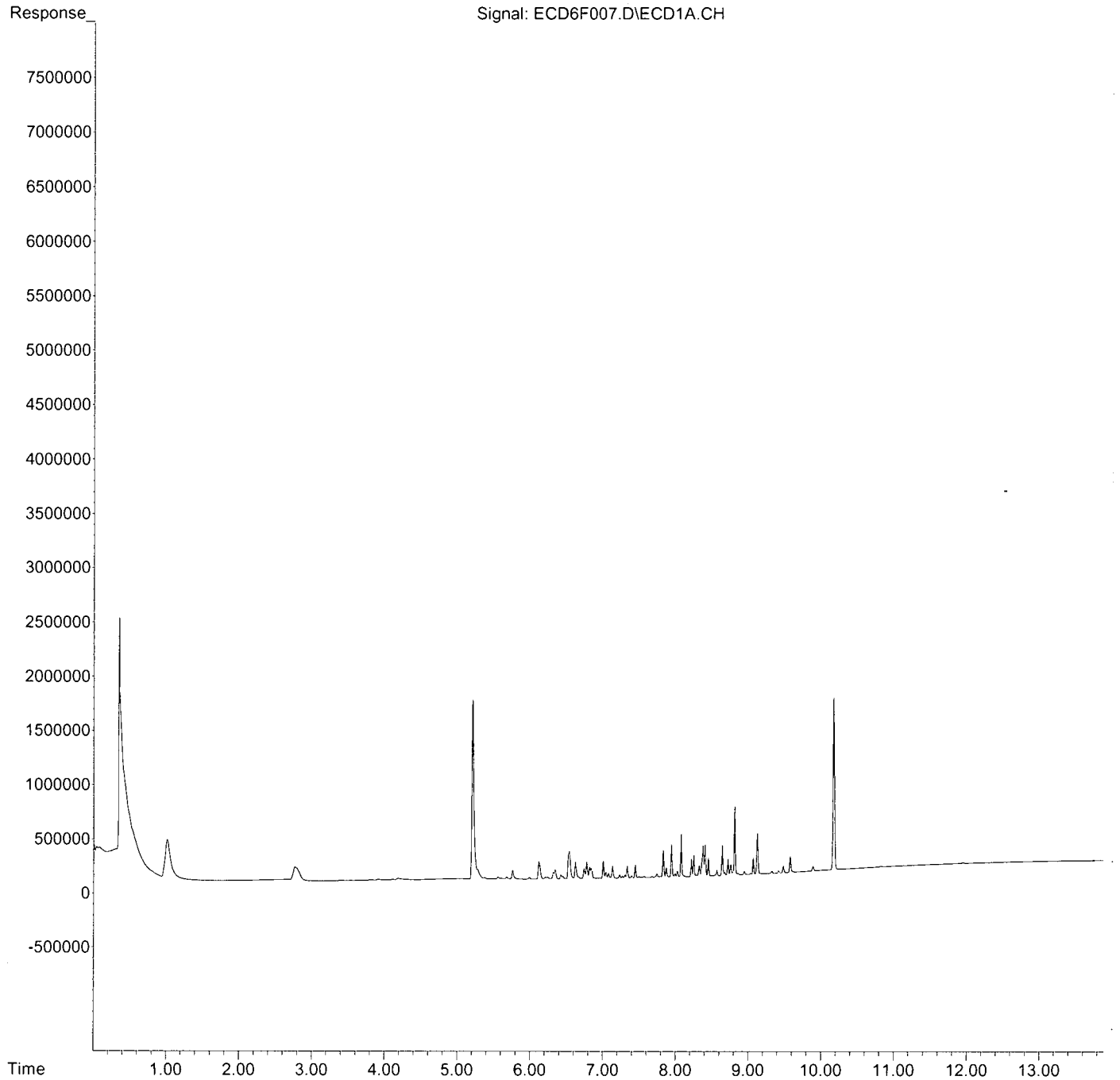
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F007.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26027-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:09:51 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F008.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26027-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:11:02 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.212	4165118	25.697	ng/ml
62) S	DCBP (S)	10.180	3920684	28.955	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	379894	65.308	ng/ml
3)	Aroclor 1016 (2)	6.542	629234	61.348	ng/ml
4)	Aroclor 1016 (3)	6.625	368385	65.721	ng/ml
5)	Aroclor 1016 (4)	6.780	367924	66.049	ng/ml
6)	Aroclor 1016 (5)	7.007	385016	65.706	ng/ml
7)	Aroclor 1016 (6)	7.136	271302	65.747	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.945	708025	60.144	ng/ml
42)	Aroclor 1260 (2)	8.079	936692	64.259	ng/ml
43)	Aroclor 1260 (3)	8.645	681087	62.454	ng/ml
44)	Aroclor 1260 (4)	8.816	1571083	60.532	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F008.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26027-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:11:02 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.130	956739	61.329	ng/ml
46)	Aroclor 1260 (6)	9.582	364740	61.184	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

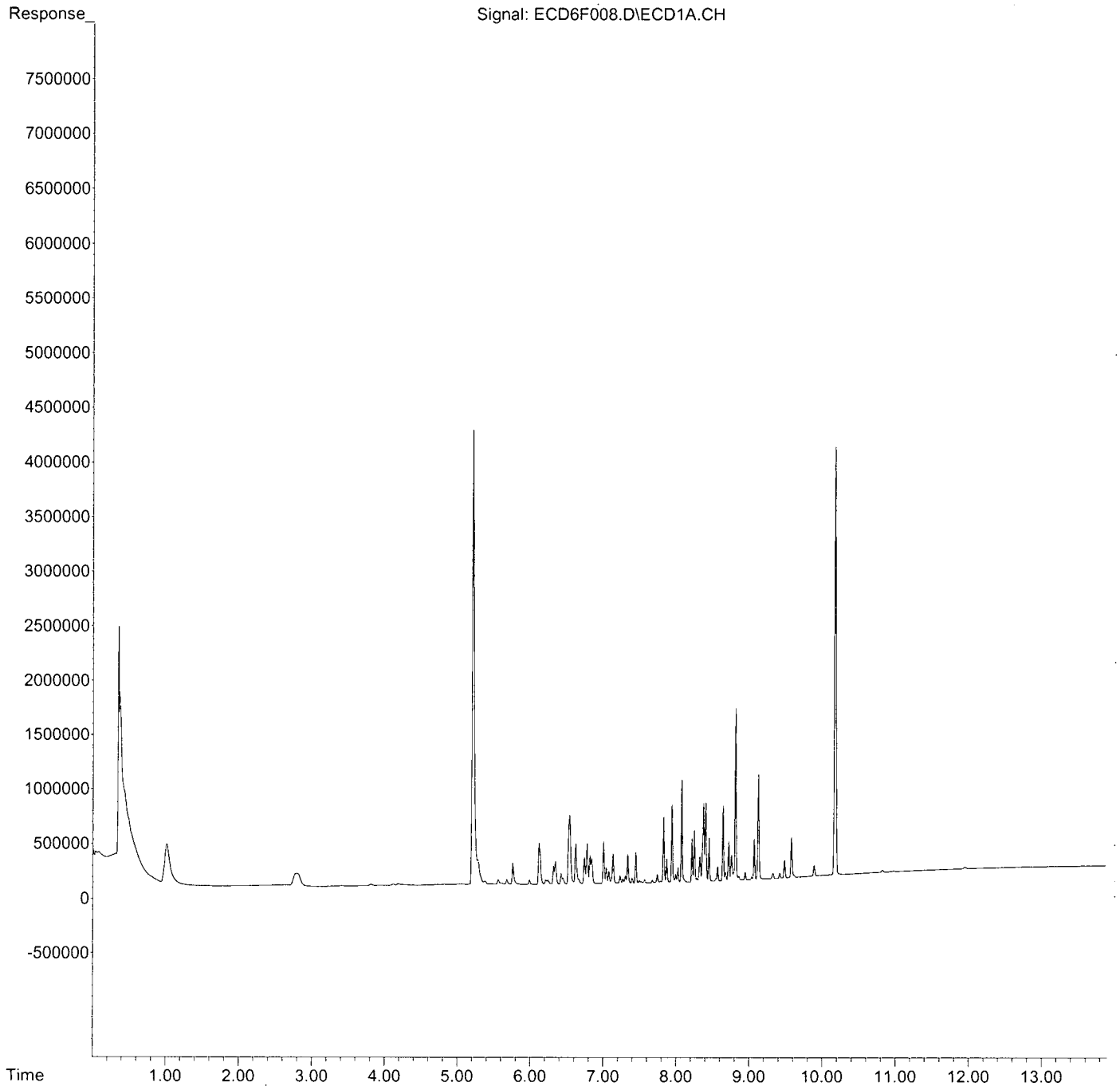
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F008.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26027-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:11:02 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F009.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26027-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:12:25 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.212	8746160	53.960	ng/ml
62)	S DCBP (S)	10.179	8171698	60.350	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	733569	126.109	ng/ml
3)	Aroclor 1016 (2)	6.541	1285823	125.363	ng/ml
4)	Aroclor 1016 (3)	6.624	695611	124.100	ng/ml
5)	Aroclor 1016 (4)	6.780	710928	127.625	ng/ml
6)	Aroclor 1016 (5)	7.007	730989	124.749	ng/ml
7)	Aroclor 1016 (6)	7.136	537665	130.297	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.945	1428337	121.332	ng/ml
42)	Aroclor 1260 (2)	8.079	1849257	126.864	ng/ml
43)	Aroclor 1260 (3)	8.645	1391466	127.595	ng/ml
44)	Aroclor 1260 (4)	8.816	3203039	123.410	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F009.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26027-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:12:25 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.129	1922604	123.242	ng/ml
46)	Aroclor 1260 (6)	9.582	736893	123.613	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

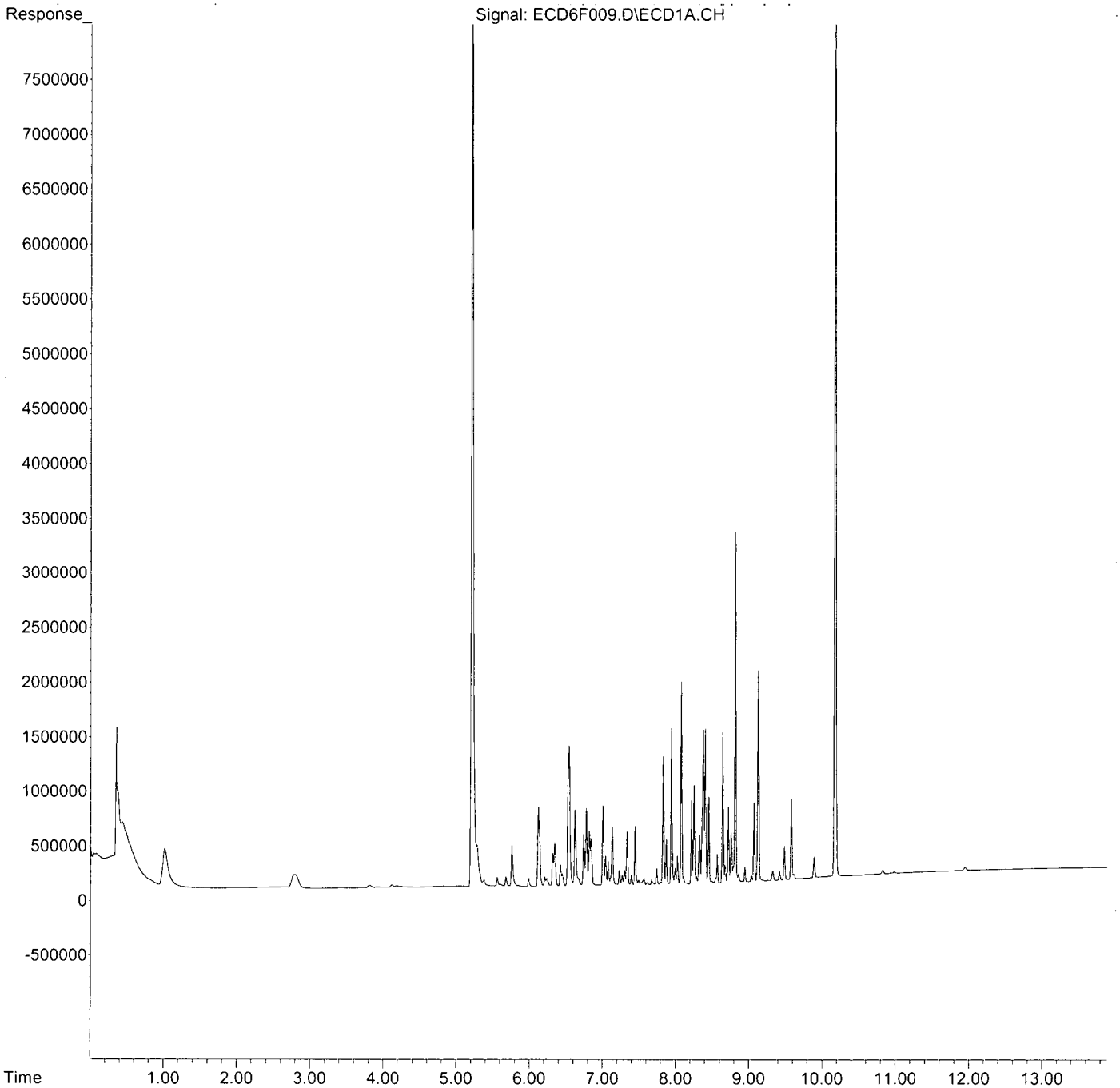
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F009.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26027-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:12:25 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F010.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26027-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:13:49 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.211	17276976	106.591	ng/ml
62)	S DCBP (S)	10.180	16193673	119.595	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	1331459	228.894	ng/ml
3)	Aroclor 1016 (2)	6.541	2396080	233.609	ng/ml
4)	Aroclor 1016 (3)	6.624	1325814	236.531	ng/ml
5)	Aroclor 1016 (4)	6.780	1293424	232.194	ng/ml
6)	Aroclor 1016 (5)	7.006	1388433	236.947	ng/ml
7)	Aroclor 1016 (6)	7.136	980853	237.698	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.945	2716723	230.776	ng/ml
42)	Aroclor 1260 (2)	8.079	3514676	241.115	ng/ml
43)	Aroclor 1260 (3)	8.646	2585656	237.100	ng/ml
44)	Aroclor 1260 (4)	8.816	6256303	241.050	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F010.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26027-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:13:49 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.129	3707238	237.640	ng/ml
46)	Aroclor 1260 (6)	9.582	1396858	234.321	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

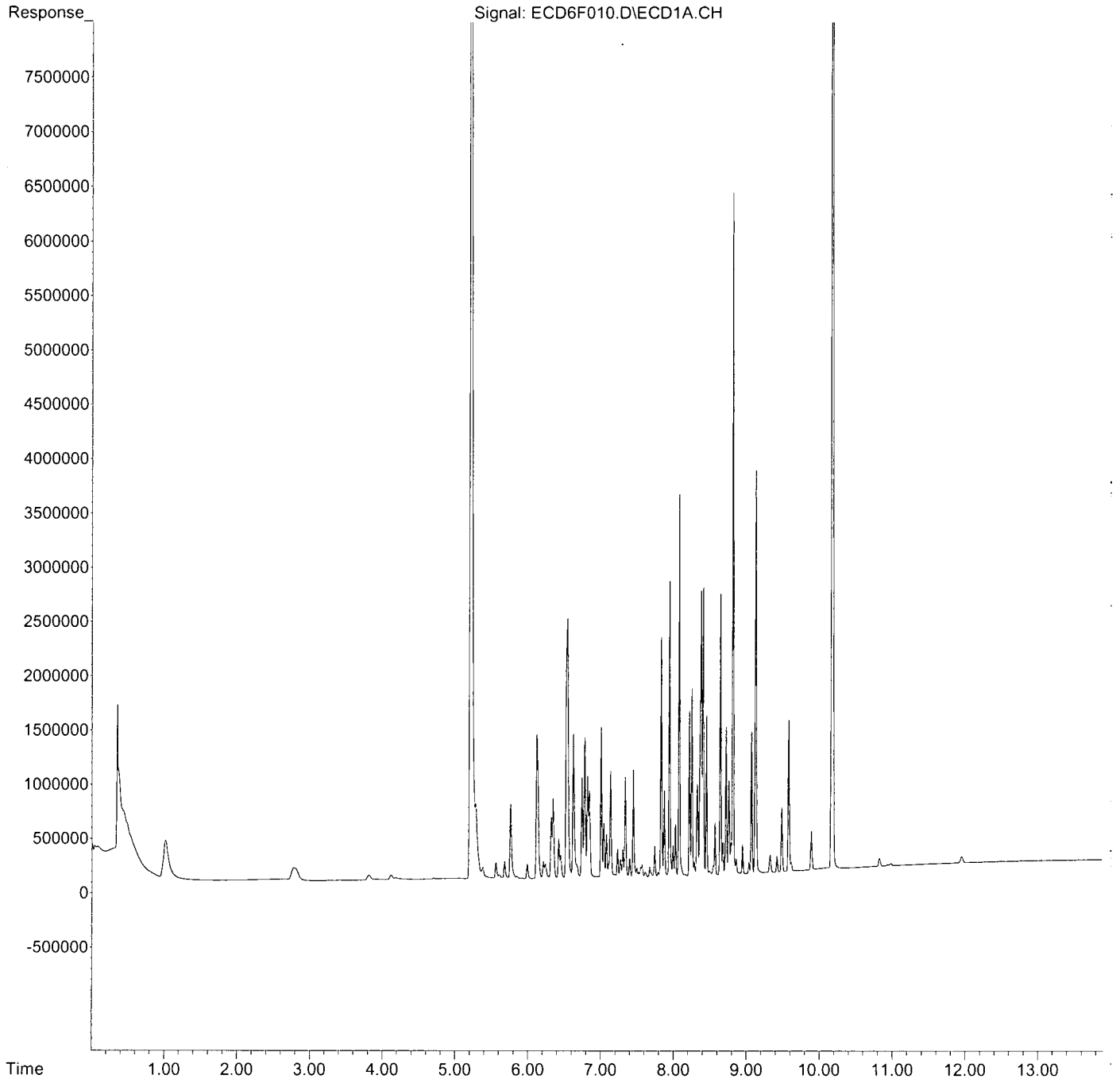
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F010.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26027-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:13:49 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F011.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26027-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:08:36 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:05:49 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.212	45242416	279.126	ng/ml
62) S	DCBP (S)	10.180	40809032	301.387	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	3298988	567.136	ng/ml
3)	Aroclor 1016 (2)	6.540	6276235	611.910	ng/ml
4)	Aroclor 1016 (3)	6.623	3403040	607.116	ng/ml
5)	Aroclor 1016 (4)	6.779	3225845	579.099	ng/ml
6)	Aroclor 1016 (5)	7.006	3544727	604.935	ng/ml
7)	Aroclor 1016 (6)	7.135	2494841	604.596	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.944	7021799	596.476	ng/ml
42)	Aroclor 1260 (2)	8.078	9152661	627.895	ng/ml
43)	Aroclor 1260 (3)	8.645	6619136	606.963	ng/ml
44)	Aroclor 1260 (4)	8.816	16189542	623.769	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F011.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26027-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:08:36 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:05:49 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.129	9683013	620.697	ng/ml
46)	Aroclor 1260 (6)	9.582	3446149	578.086	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

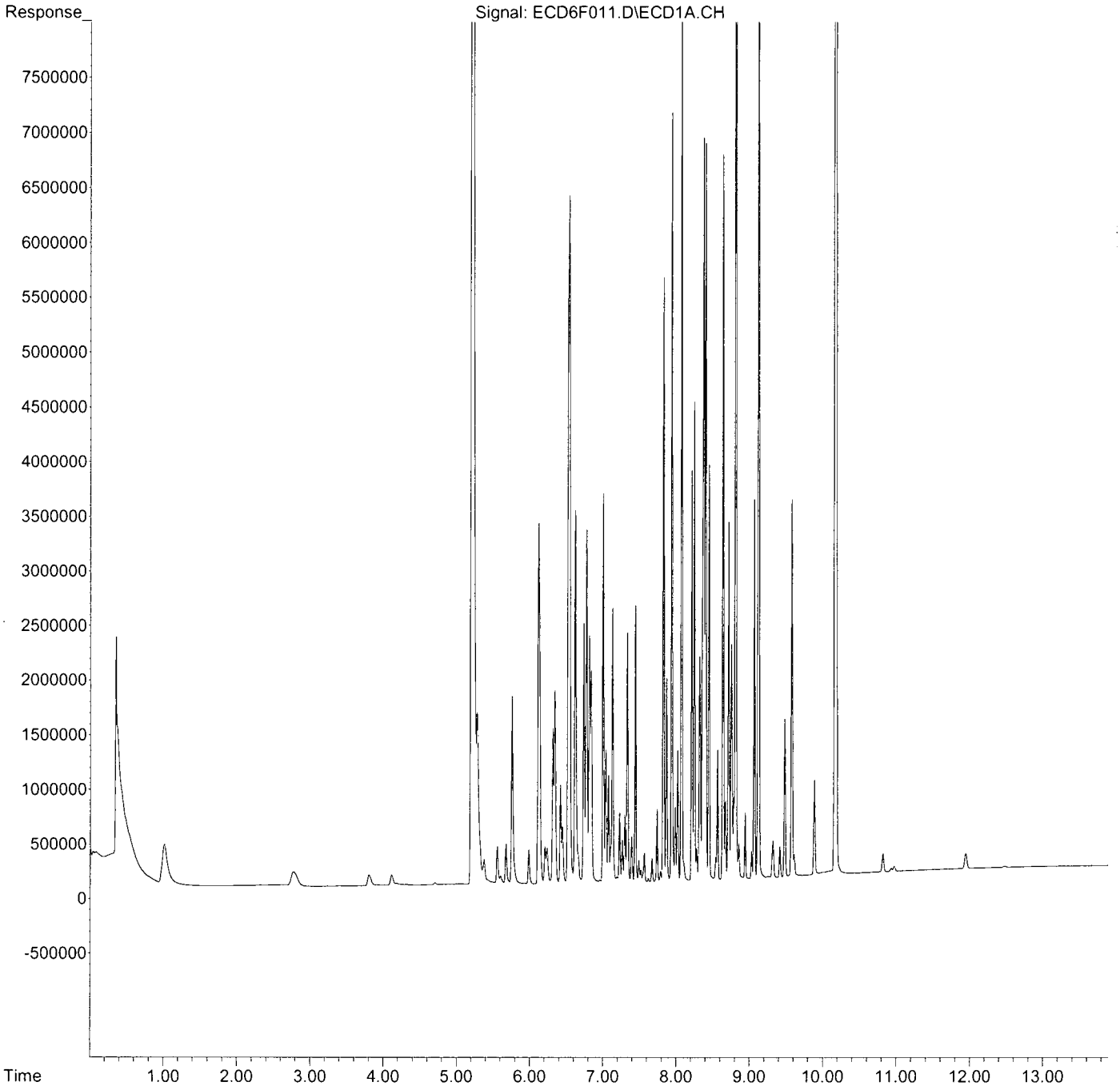
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F011.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26027-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:08:36 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:05:49 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F012.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26027-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:14:57 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.213	113424476	699.780	ng/ml
62)	S DCBP (S)	10.181	100300268	740.747	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	6626227	1139.129	ng/ml
3)	Aroclor 1016 (2)	6.540	12970595	1264.587	ng/ml
4)	Aroclor 1016 (3)	6.623	6668552	1189.697	ng/ml
5)	Aroclor 1016 (4)	6.779	6426720	1153.716	ng/ml
6)	Aroclor 1016 (5)	7.006	7100299	1211.721	ng/ml
7)	Aroclor 1016 (6)	7.135	4961279	1202.308	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.945	14113355	1198.878	ng/ml
42)	Aroclor 1260 (2)	8.078	17711364	1215.043	ng/ml
43)	Aroclor 1260 (3)	8.644	12925750	1185.269	ng/ml
44)	Aroclor 1260 (4)	8.816	34191079	1317.352	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F012.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26027-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:14:57 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.130	20280067	1299.985	ng/ml
46)	Aroclor 1260 (6)	9.582	7107312	1192.240	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

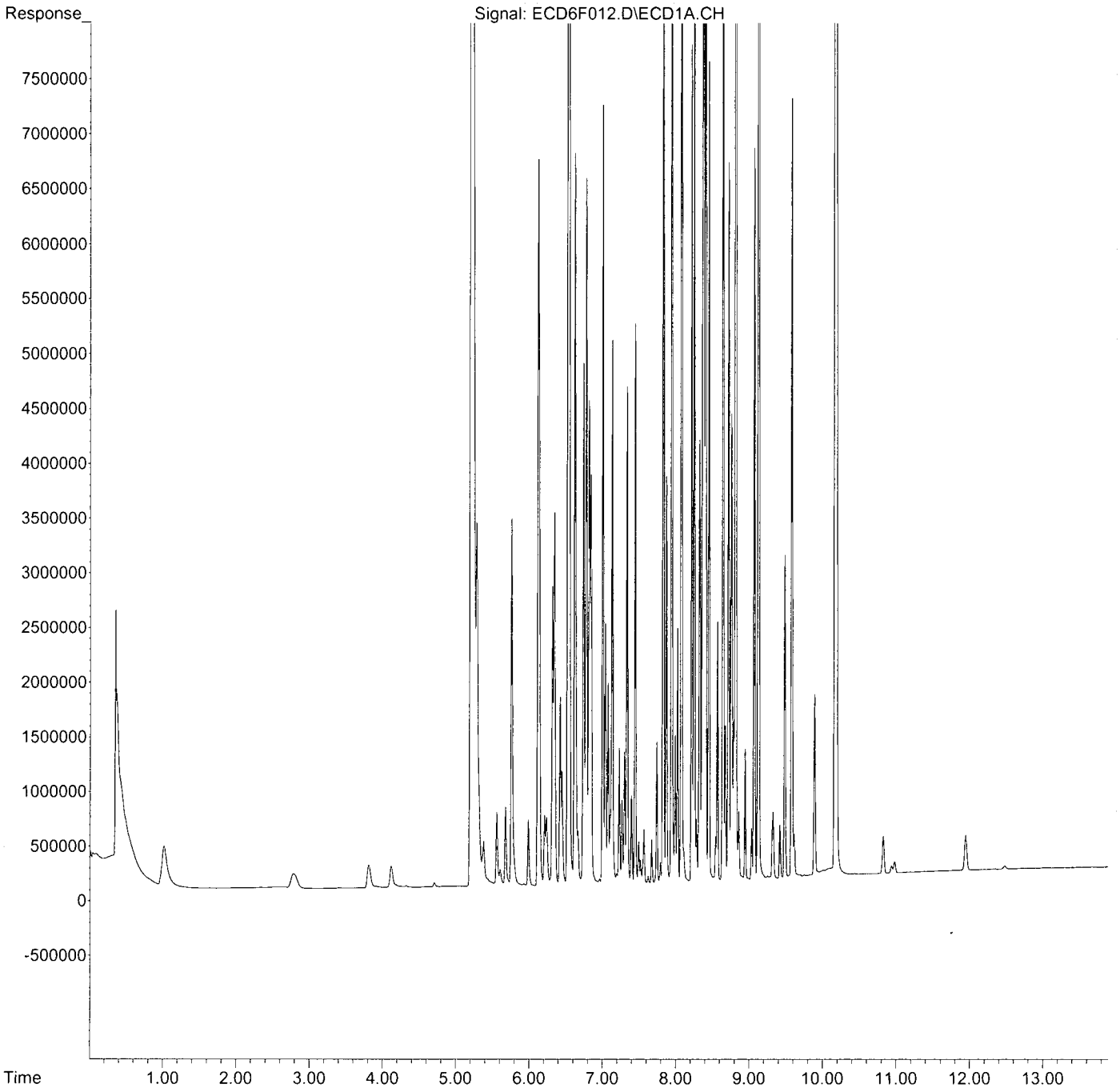
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F012.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26027-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:14:57 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F013.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:35 am
Operator : MJB/KAK
Sample : 0C26027-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:16:04 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.216	190535941	1175.524	ng/ml
62) S	DCBP (S)	10.183	157771630	1165.190	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.122	9546609	1641.178	ng/ml
3)	Aroclor 1016 (2)	6.540	19494437	1900.638	ng/ml
4)	Aroclor 1016 (3)	6.623	10062492	1795.190	ng/ml
5)	Aroclor 1016 (4)	6.779	9342297	1677.116	ng/ml
6)	Aroclor 1016 (5)	7.006	10250958	1749.406	ng/ml
7)	Aroclor 1016 (6)	7.136	7416618	1797.331	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	7.945	21051788	1788.273	ng/ml
42)	Aroclor 1260 (2)	8.079	27387511	1878.851	ng/ml
43)	Aroclor 1260 (3)	8.645	19474921	1785.817	ng/ml
44)	Aroclor 1260 (4)	8.817	54597104	2103.578	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F013.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:35 am
Operator : MJB/KAK
Sample : 0C26027-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:16:04 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.130	31054519	1990.645	ng/ml
46)	Aroclor 1260 (6)	9.582	10647710	1786.136	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

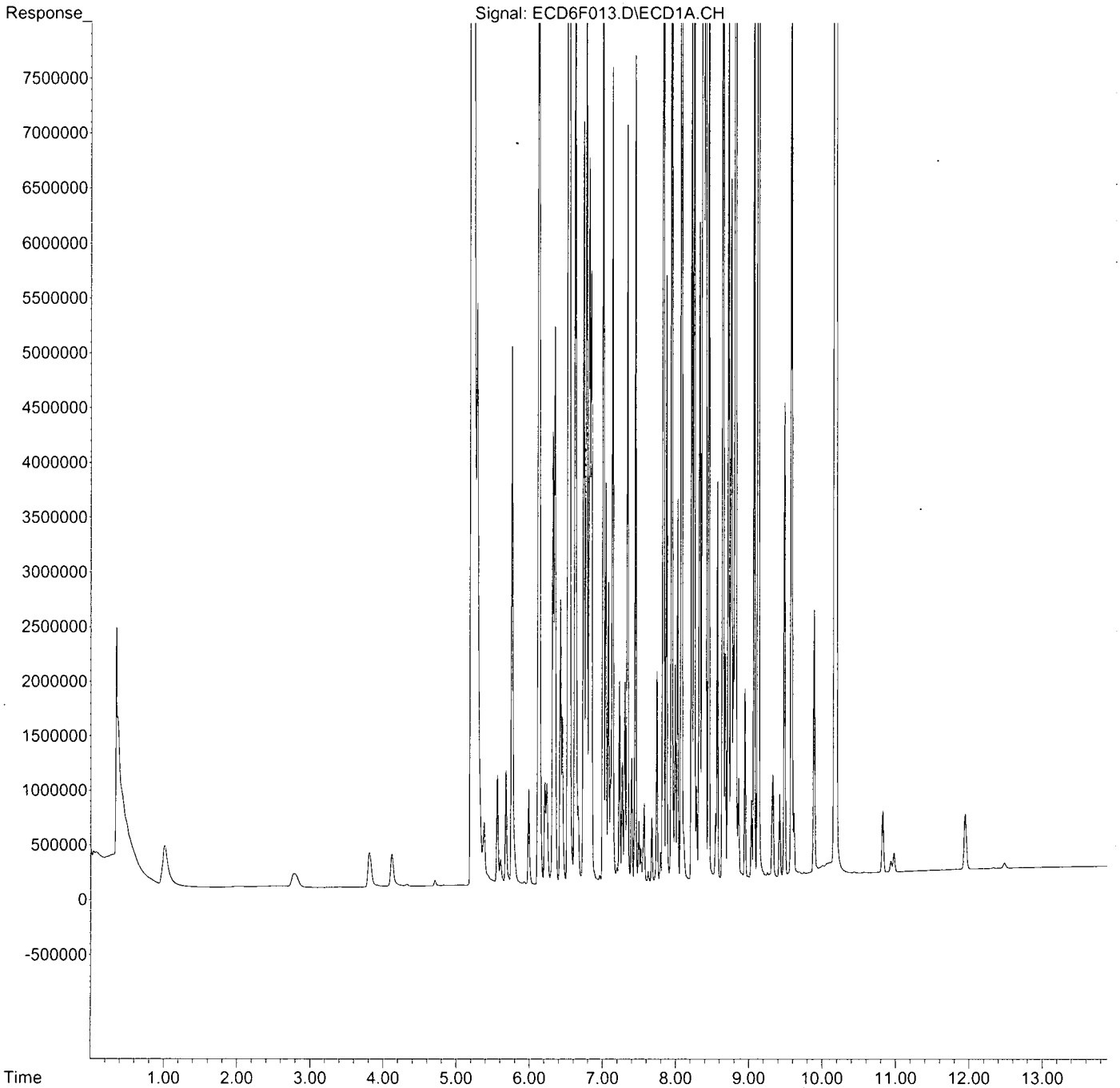
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F013.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 10:35 am
Operator : MJB/KAK
Sample : 0C26027-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:16:04 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 06 16:23:45 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F016.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 4:29 pm
Operator : MJB/KAK
Sample : 0C26027-CAL8
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:20:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:19:00 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	0.000	0	N.D.	ng/mld
62)	S DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	5.560	1254591	602.724	ng/ml
10)	Aroclor 1221 (2)	5.678	765451	550.724	ng/ml
11)	Aroclor 1221 (3)	5.761	2492534	581.957	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F016.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 4:29 pm
Operator : MJB/KAK
Sample : 0C26027-CAL8
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:20:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:19:00 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

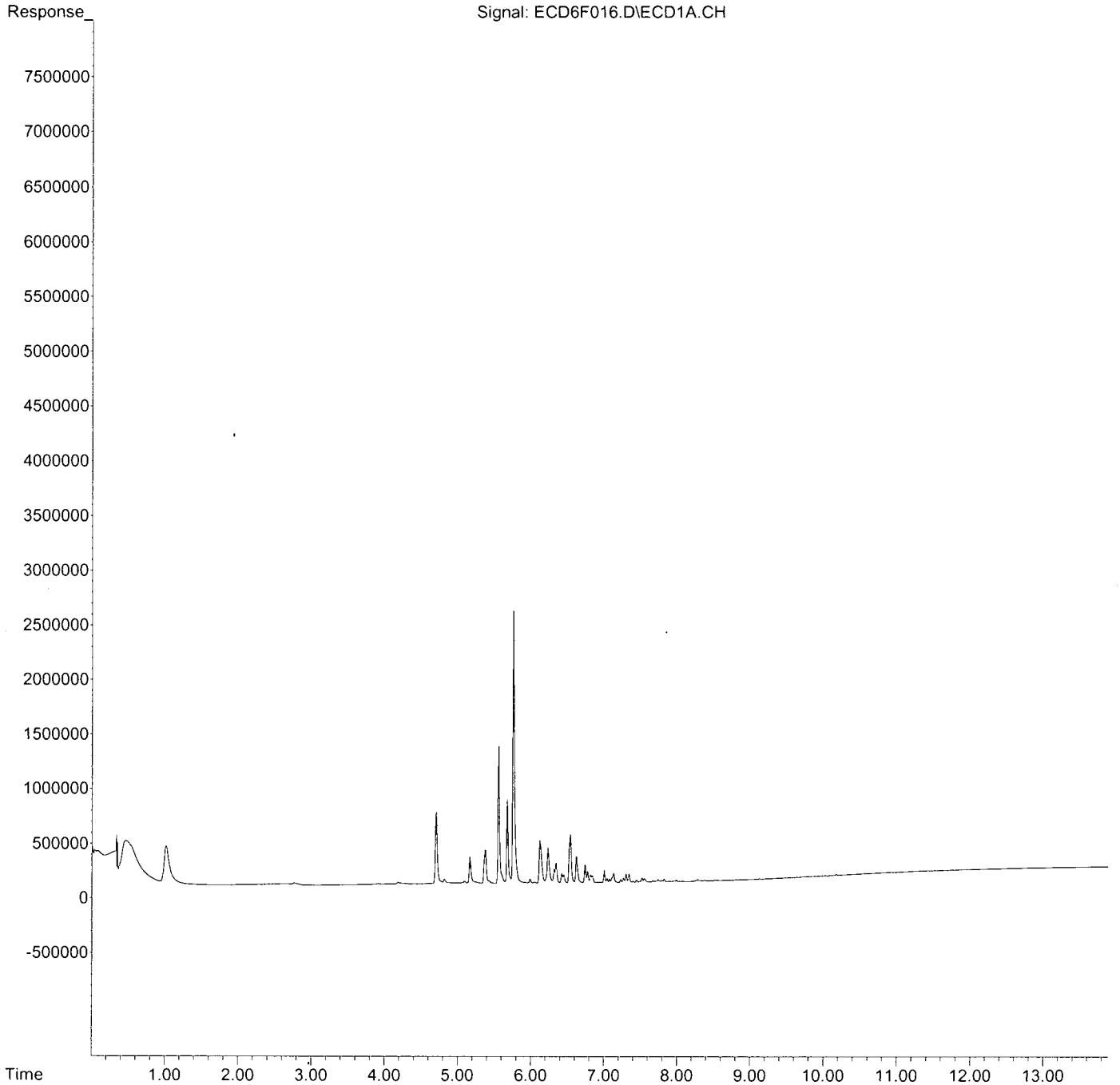
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F016.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 4:29 pm
Operator : MJB/KAK
Sample : 0C26027-CAL8
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:20:00 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:19:00 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F017.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 4:46 pm
Operator : MJB/KAK
Sample : 0C26027-CAL9
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:22:12 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:21:10 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	0.000	0	N.D.	ng/mld
62)	S DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	5.762	2015339	663.091	ng/ml
14)	Aroclor 1232 (2)	6.542	2608708	628.201	ng/ml
15)	Aroclor 1232 (3)	6.625	1428927	650.993	ng/ml
16)	Aroclor 1232 (4)	6.782	1179283	643.429	ng/ml
17)	Aroclor 1232 (5)	7.008	1371179	641.095	ng/ml
18)	Aroclor 1232 (6)	7.137	1148659	661.820	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld

3/30/20

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F017.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 4:46 pm
Operator : MJB/KAK
Sample : 0C26027-CAL9
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:22:12 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:21:10 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

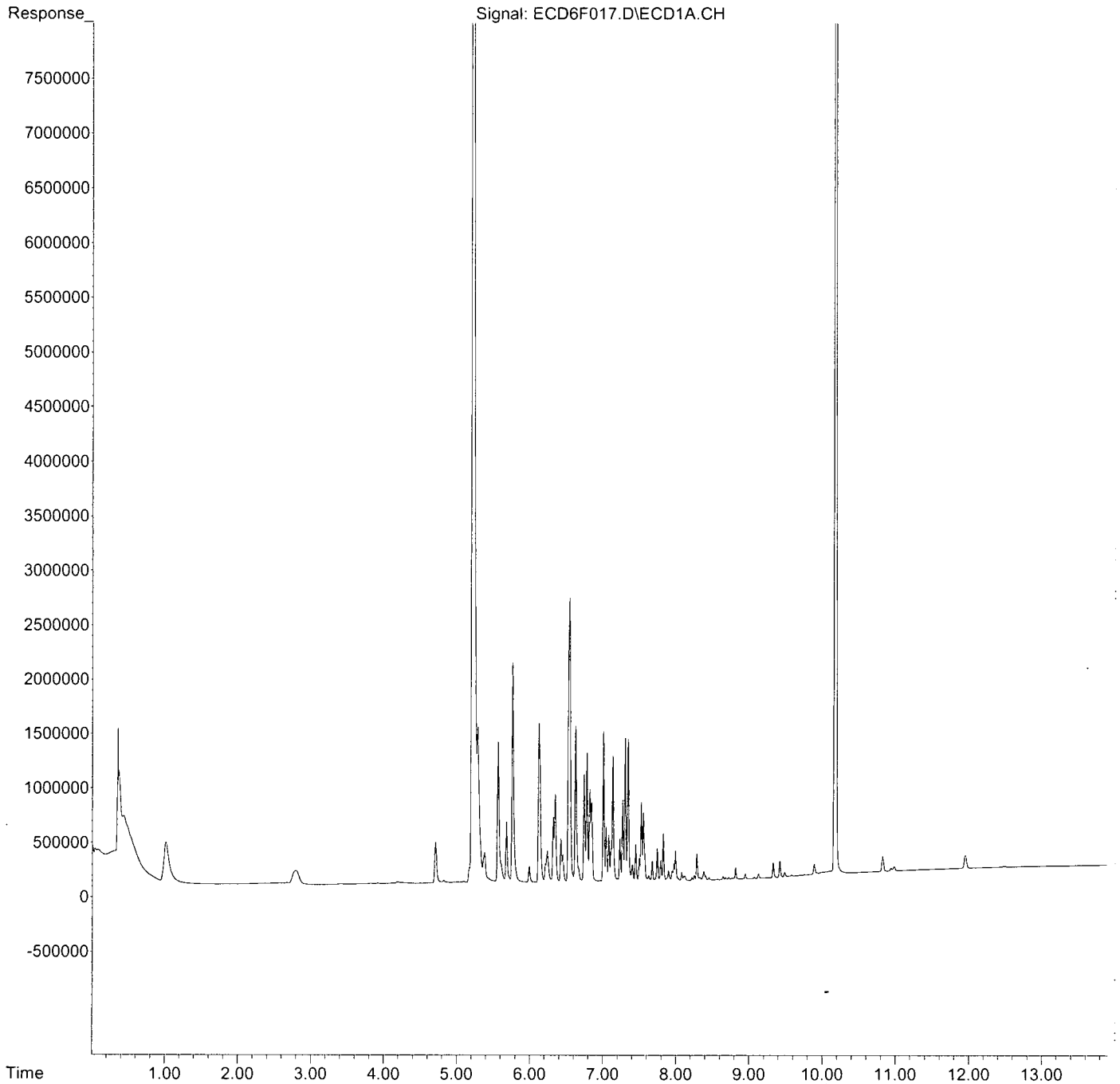
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F017.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 4:46 pm
Operator : MJB/KAK
Sample : 0C26027-CAL9
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:22:12 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:21:10 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F018.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:04 pm
Operator : MJB/KAK
Sample : 0C26027-CALA
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:24:05 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:23:14 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	6.124	2574963	643.924	ng/ml
21)	Aroclor 1242 (2)	6.542	4818475	640.924	ng/ml
22)	Aroclor 1242 (3)	6.625	2593273	638.415	ng/ml
23)	Aroclor 1242 (4)	6.782	2370481	653.238	ng/ml
24)	Aroclor 1242 (5)	7.007	2724367	640.000	ng/ml
25)	Aroclor 1242 (6)	7.137	2340893	663.702	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld

3/30/20

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F018.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:04 pm
Operator : MJB/KAK
Sample : 0C26027-CALA
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:24:05 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:23:14 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

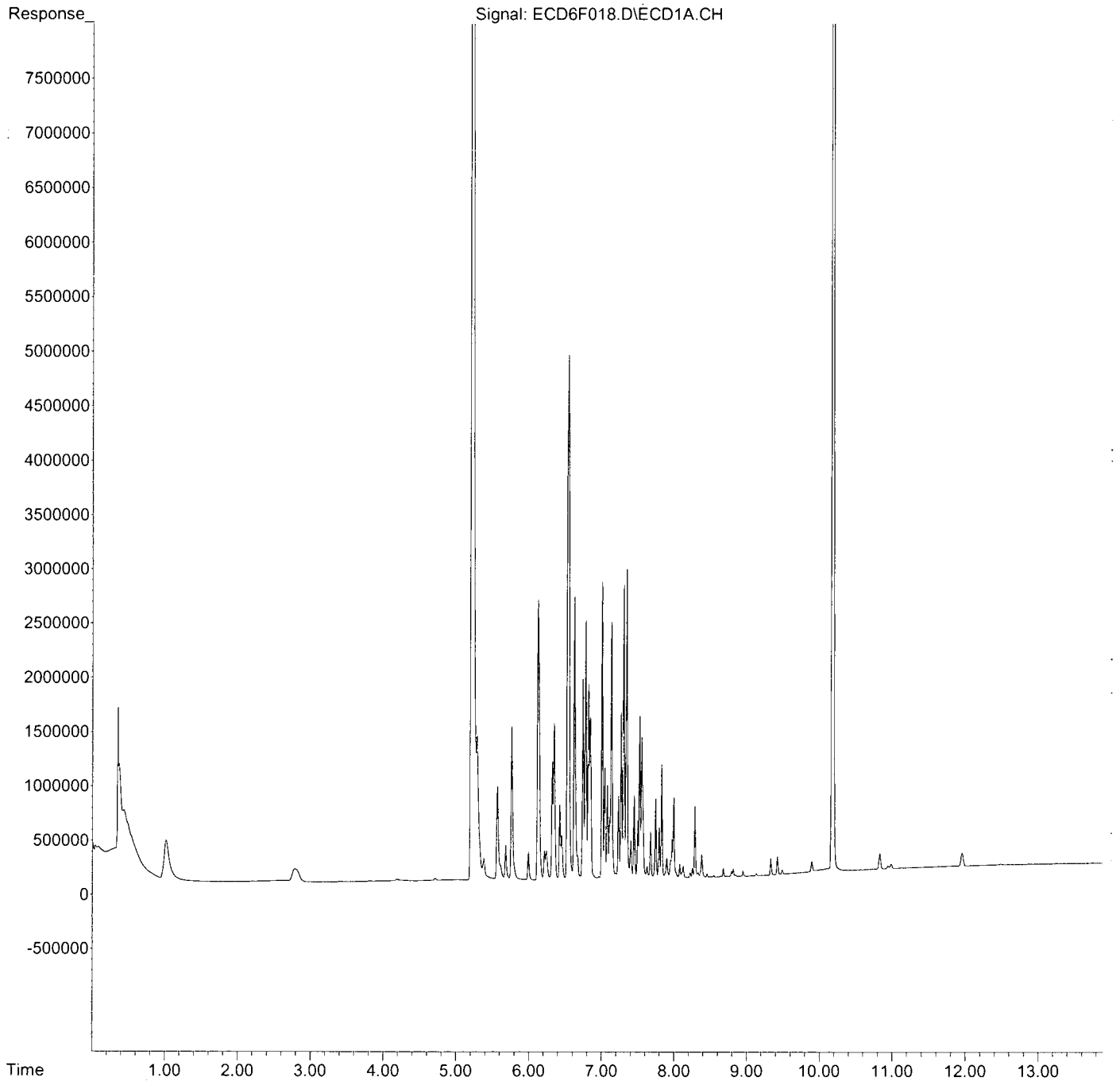
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F018.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:04 pm
Operator : MJB/KAK
Sample : 0C26027-CALA
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:24:05 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:23:14 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F019.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:22 pm
Operator : MJB/KAK
Sample : 0C26027-CALB
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:26:24 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:25:24 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	6.540	3016563	607.161	ng/ml
28)	Aroclor 1248 (2)	6.781	4182273	618.705	ng/ml
29)	Aroclor 1248 (3)	7.007	4423987	583.921	ng/ml
30)	Aroclor 1248 (4)	7.304	4978862	598.055	ng/ml
31)	Aroclor 1248 (5)	7.344	4872100	616.758	ng/ml
32)	Aroclor 1248 (6)	7.827	2935591	616.018	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld

3/30/20

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F019.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:22 pm
Operator : MJB/KAK
Sample : 0C26027-CALB
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:26:24 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:25:24 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

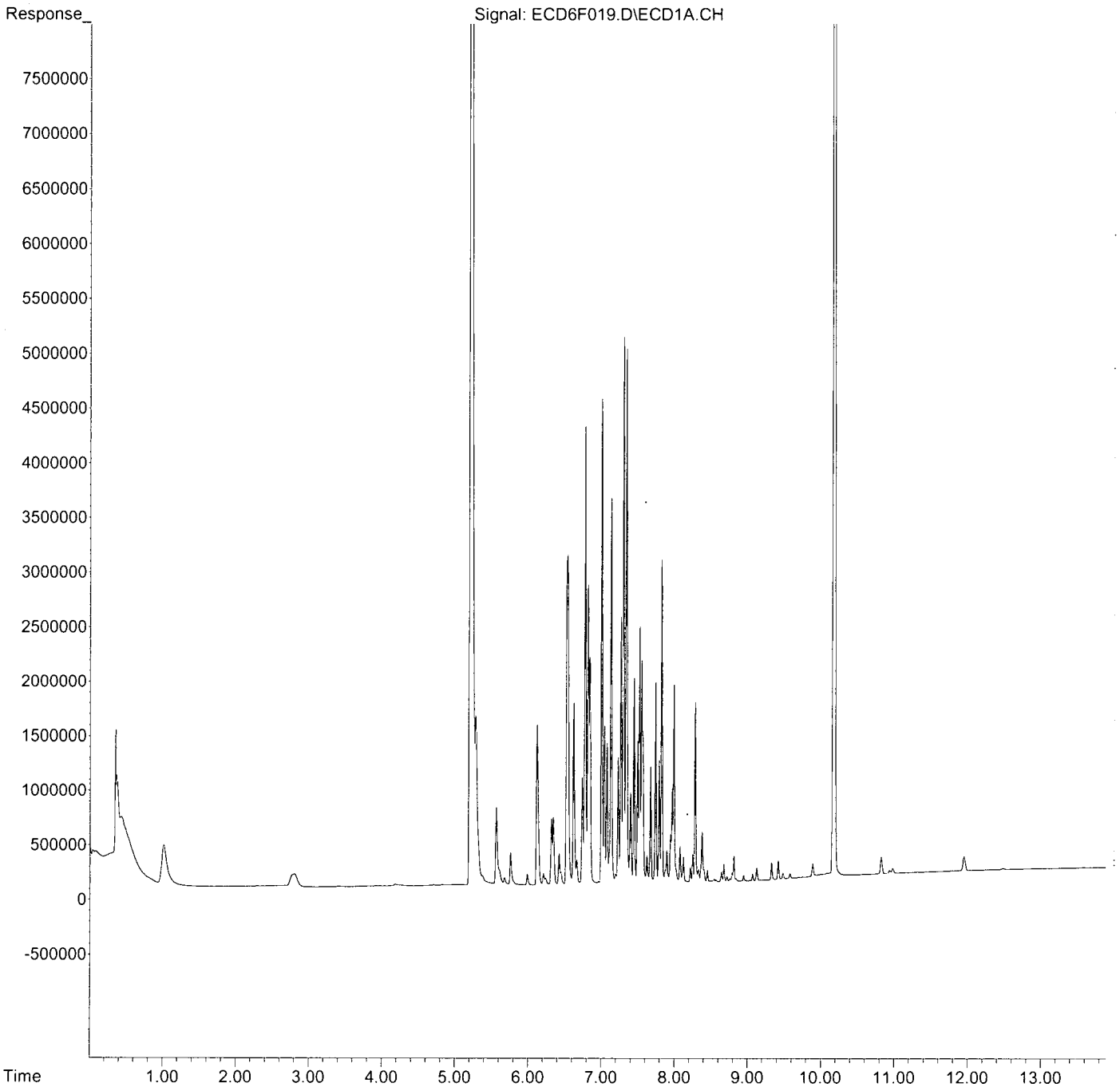
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F019.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:22 pm
Operator : MJB/KAK
Sample : 0C26027-CALB
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:26:24 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:25:24 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F020.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:39 pm
Operator : MJB/KAK
Sample : 0C26027-CALC
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:28:15 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:27:26 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	7.338	5603299	579.676	ng/ml
35)	Aroclor 1254 (2)	7.448	6902804	611.211	ng/ml
36)	Aroclor 1254 (3)	7.826	10555243	608.516	ng/ml
37)	Aroclor 1254 (4)	7.994	6688868	607.473	ng/ml
38)	Aroclor 1254 (5)	8.379	7095812	598.368	ng/ml
39)	Aroclor 1254 (6)	8.678	2214483	607.767	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld

3/30/20

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F020.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:39 pm
Operator : MJB/KAK
Sample : 0C26027-CALC
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:28:15 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:27:26 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

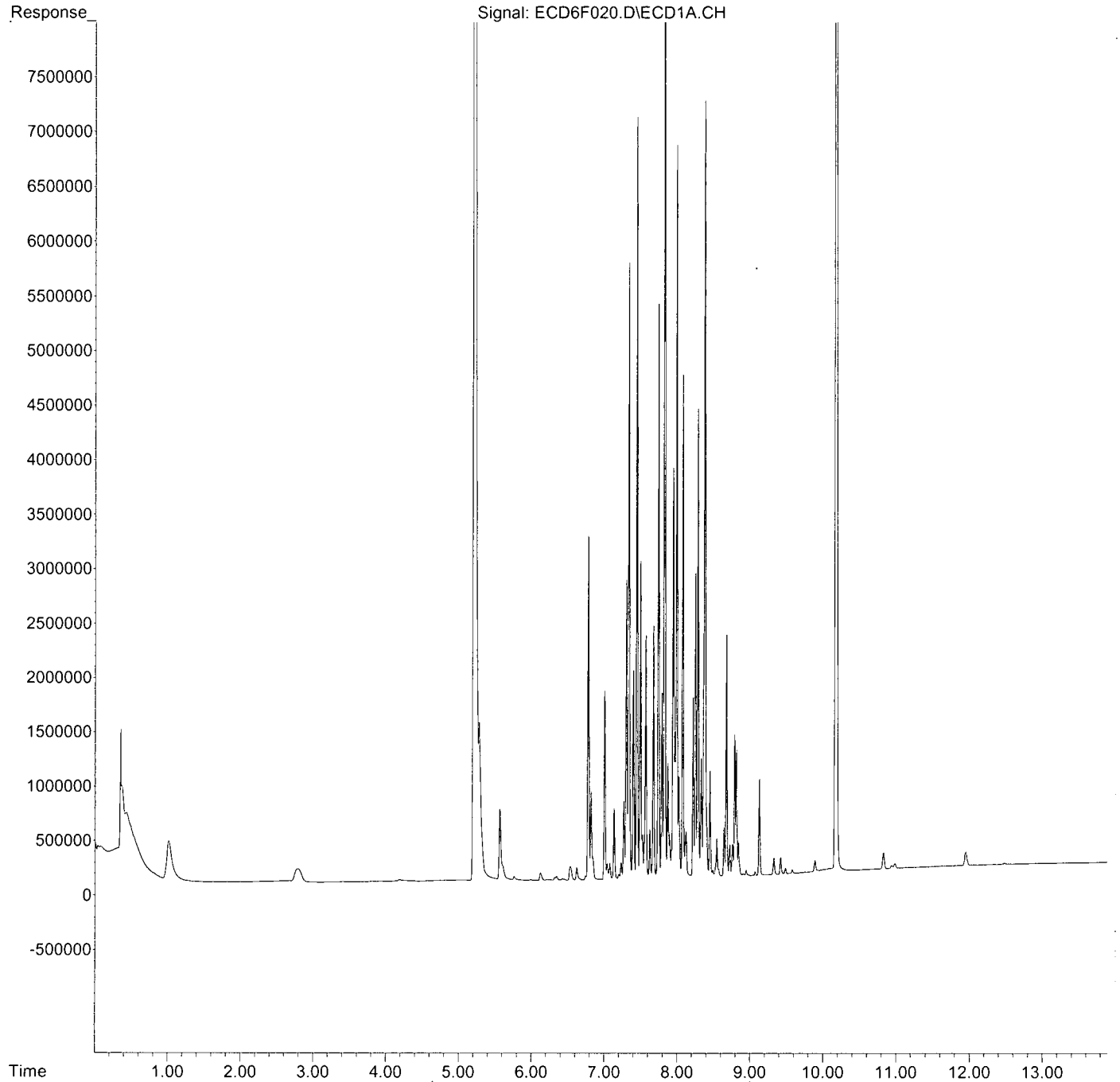
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F020.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:39 pm
Operator : MJB/KAK
Sample : 0C26027-CALC
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 14:28:15 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 14:27:26 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F021.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:57 pm
Operator : MJB/KAK
Sample : 0C26027-CALD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:14:09 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:13:07 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	0.000	0	N.D.	ng/mld
62)	S DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F021.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:57 pm
Operator : MJB/KAK
Sample : 0C26027-CALD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:14:09 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:13:07 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld
48)	Aroclor 1262 (1)	8.080	7020336	617.894	ng/ml
49)	Aroclor 1262 (2)	8.409	9764593	602.532	ng/ml
50)	Aroclor 1262 (3)	8.646	8161325	605.693	ng/ml
51)	Aroclor 1262 (4)	8.818	18395697	621.698	ng/ml
52)	Aroclor 1262 (5)	9.130	10096239	633.718	ng/ml
53)	Aroclor 1262 (6)	9.584	5011200	642.022	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

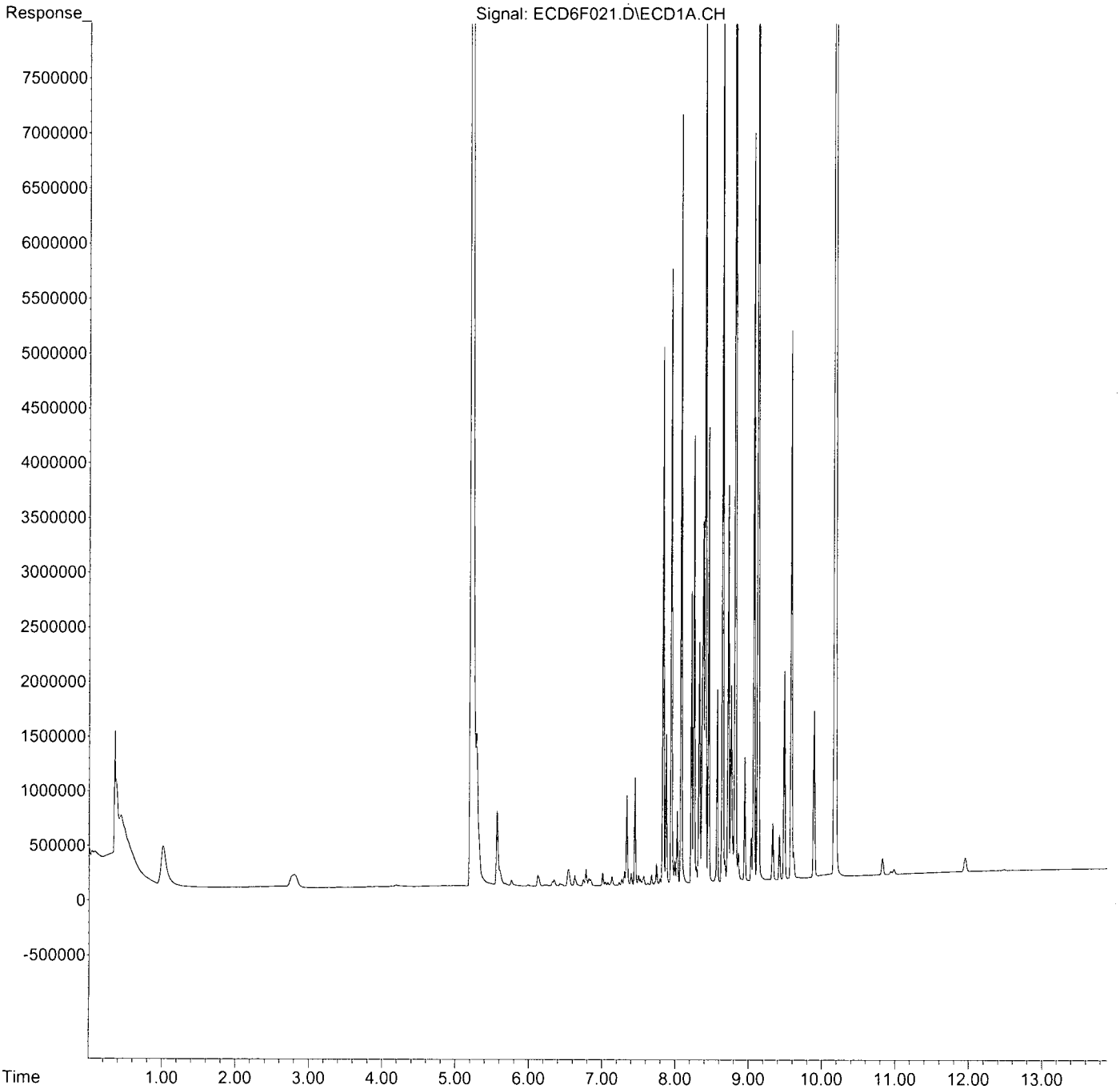
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F021.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 5:57 pm
Operator : MJB/KAK
Sample : 0C26027-CALD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:14:09 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:13:07 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F022.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 6:15 pm
Operator : MJB/KAK
Sample : 0C26027-CALE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:15:26 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:14:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/30/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F022.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 6:15 pm
Operator : MJB/KAK
Sample : 0C26027-CALE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:15:26 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:14:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	8.638	4558221	620.118	ng/ml
56)	Aroclor 1268 (2)	9.073	21269228	629.045	ng/ml
57)	Aroclor 1268 (3)	9.124	17115346	635.605	ng/ml
58)	Aroclor 1268 (4)	9.331	15280553	661.288	ng/ml
59)	Aroclor 1268 (5)	9.583	5533846	572.861	ng/ml
60)	Aroclor 1268 (6)	9.895	41348921	617.031	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

3/30/20

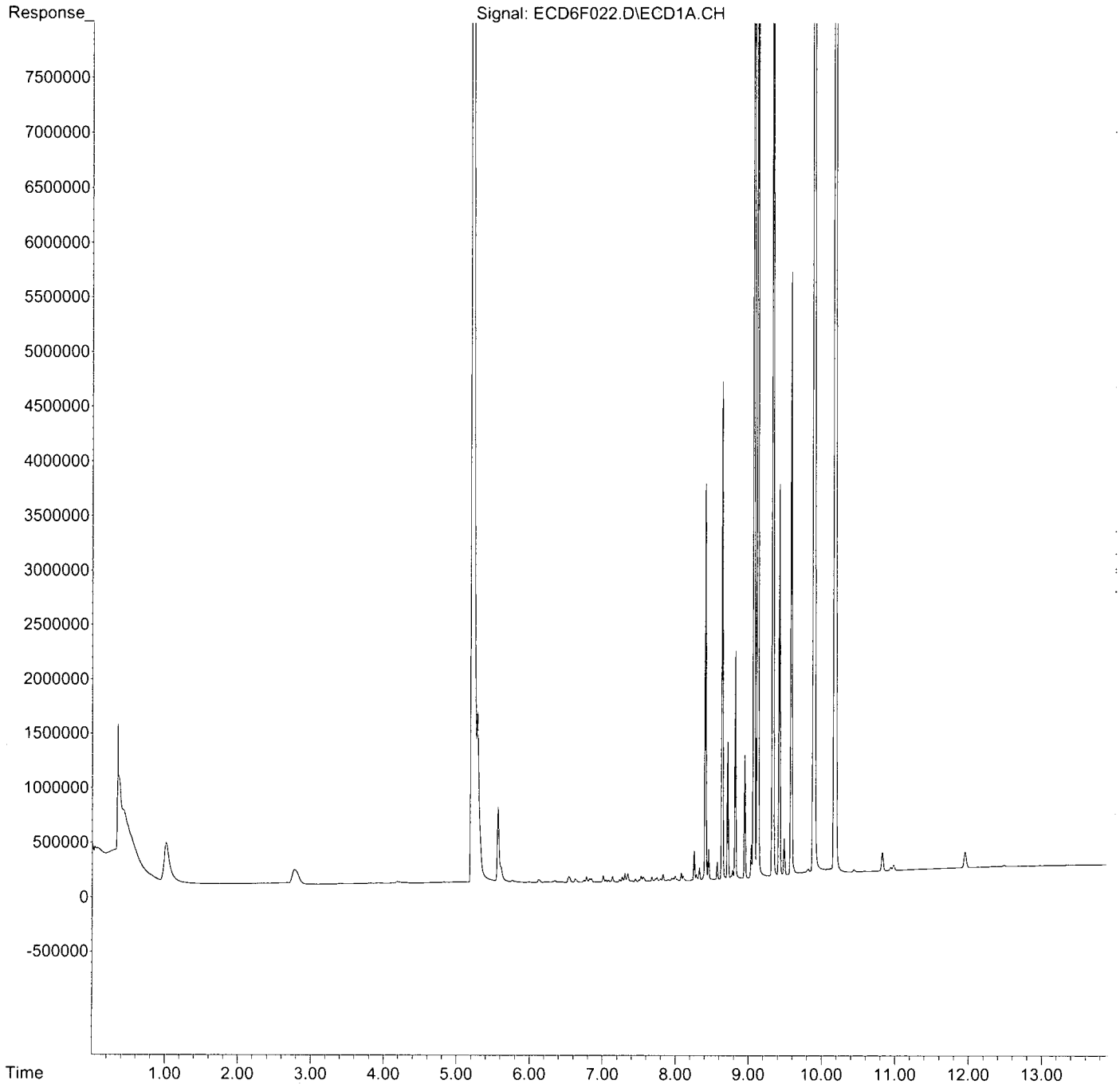
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26027\
Data File : ECD6F022.D
Signal(s) : ECD1A.CH
Acq On : 26 Mar 2020 6:15 pm
Operator : MJB/KAK
Sample : 0C26027-CALE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 30 07:15:26 2020
Quant Method : S:\METHODS\FECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Mon Mar 30 07:14:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data

Batch 0050653
Sequence 0E28051 (A0E0347-01,02)

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

JUN 0 4 2020

BATCH #: 0050653 (Water)

Prep Method: EPA 3510C (Neutral pH)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050653-BLK1		QC	05/18/20 14:41	1100	5				100					
	0050653-BSD1		QC	05/18/20 14:41	1000	5	A20C413		100	100					
	0050653-BS1		QC	05/18/20 14:41	1000	5	A20C413		100	100					
	A0E0347-01	H	8081B 2,4+4,4-DDx Only (+Add)	05/18/20 14:41	1060	5				100	PDI-FB-2005121 245	MDL. Use Custom Spike.			
	A0E0347-02	H	8081B 2,4+4,4-DDx Only (+Add)	05/18/20 14:41	1060	5				100	PDI-RB-2005121 245	MDL. Use Custom Spike.			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20B017	08/01/20	Glass Wool
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E020	10/31/22	DCM CHEM PROD. 197898

Analyte Spike(s)

Std ID	Exp. Date	Description
A20C413	09/25/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20E178	10/30/20	8082 PCB Surrogate Spike

Witness: _____

Bottle Check: _____

Prepared By: _____ Date _____

Reviewed By: MJB 6/1/20 Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050653 (Water)

Prep Method: EPA 3510C (Neutral pH)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050653-BLK1		QC	05/18/20 14:41	~~1000~~ 1100	5				100				6	
	0050653-BSD1		QC	05/18/20 14:41	1000	5	A20C413	am	100	100				6	
	0050653-BS1		QC	05/18/20 14:41	1000	5	A20C413	05.18.20	100	100				6	
	A0E0347-01 am 5.18.20	E H	8081B 2,4+4,4-DDx Only (+Add)	05/18/20 14:41	~~1000~~ 1060	5				100	PDI-FB-200521 245	MDL. Use Custom Spike.		6	
	A0E0347-02	E H	8081B 2,4+4,4-DDx Only (+Add)	05/18/20 14:41	~~1000~~ 1060	5				100	PDI-RB-200521 245	MDL. Use Custom Spike.		6	

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20B017	08/01/20	Glass Wool
~~A20D178~~	~~10/10/22~~	Sodium Sulfate Lot # ~~195259~~ A20D177 cas 05/19/20
A20E020	10/31/22	DCM CHEM PROD. 197898

Analyte Spike(s) am

Std ID	Exp. Date	Description
A20C413	09/25/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s) am

Std ID	Exp. Date	Description
~~A20D153~~ A20E178	~~09/20/20~~ 10/30/20	8082 PCB Surrogate Spike

am 05.18.20

Witness: Cwh 5/18/20

Bottle Check: Cwh 5/18/20

☆ = 2mL exchanged in Hexane

am 05.18.20
Prepared By: Date

cas 05/19/2020
Reviewed By: Date

am 05.27.20

Page 1 of 1

Printed: 5/18/2020 2:45:44PM

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0E28051** Instrument: **DUALECD3**

Date: **05/28/20 10:59** Calibration: **A0D1308**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E28051-BKD1	Sediment	QC	QC				A20E203
2	0E28051-BKD2	Sediment	QC	QC				A20E203
3	0E28051-CCV1	Sediment	QC	QC				A20E232
4	0E28051-CCV2	Sediment	QC	QC				A20C358
5	0E28051-CCB1	Sediment	QC	QC				A20E115
6	0050653-BLK1	Water	QC	QC		0050653		
7	0050653-BS1	Water	QC	QC		0050653		
8	0050653-BSD1	Water	QC	QC		0050653		
9	A0E0347-01	Water	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	05/27/20	0050653		
10	A0E0347-02	Water	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	05/27/20	0050653		
11	0050644-BS2	Sediment	QC	QC		0050644		
12	A0E0268-04RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	05/22/20	0050644		
13	0050704-BLK1	Sediment	QC	QC		0050704		
14	0050704-BS1	Sediment	QC	QC		0050704		
15	0E28051-CCV3	Sediment	QC	QC				A20E233
16	0E28051-CCV4	Sediment	QC	QC				A20C359
17	0E28051-CCB2	Sediment	QC	QC				A20E115
18	A0E0264-09RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	05/21/20	0050644		
19	0050644-DUP2	Sediment	QC	QC		0050644		
20	A0E0280-08RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	05/22/20	0050649		
21	A0E0280-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	05/22/20	0050704		
22	0E28051-IBL1	Sediment	QC	QC				
23	0050704-DUP1	Sediment	QC	QC		0050704		
24	0E28051-IBL2	Sediment	QC	QC				
25	A0E0281-12RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	05/22/20	0050704		
26	0E28051-IBL3	Sediment	QC	QC				
27	A0E0281-13RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	05/22/20	0050704		
28	0E28051-IBL4	Sediment	QC	QC				
29	0050704-MS1	Sediment	QC	QC		0050704		
30	0E28051-IBL5	Sediment	QC	QC				
31	0050704-MSD1	Sediment	QC	QC		0050704		
32	0E28051-IBL6	Sediment	QC	QC				
33	A0E0281-14RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	05/22/20	0050704		
34	0E28051-IBL7	Sediment	QC	QC				
35	0E28051-CCV5	Sediment	QC	QC				A20E232
36	0E28051-CCV6	Sediment	QC	QC				A20C358
37	0E28051-CCB3	Sediment	QC	QC				A20E115
38	0E28051-IBL8	Sediment	QC	QC				
39	0E28051-IBL9	Sediment	QC	QC				
40	0E28051-IBLA	Sediment	QC	QC				

Comments: From Column = Primary Column.

Data Entered By/Date: AJP 6/1/20

Data Reviewed By/Date: [signature] 6/2/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 11:48
Operator : MJB
Sample : 0E28051-BKD1
Misc : A20E203
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 28 12:02:14 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410RT9.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.714	639871	NoCal	ng/mL
2)	Endrin	8.092	42311841	NoCal	ng/mL
3)	4,4'-DDD	8.139	4777622	NoCal	ng/mL
4)	4,4'-DDT	8.338	77893486	NoCal	ng/mL
5)	Endrin Aldehyde	8.540	6659143	NoCal	ng/mL
6)	Endrin Ketone	9.041	14267404	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.401	778248	NoCal	ng/mL
9)	Endrin [2C]	8.772	26467727	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.818	5111384	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.158	4821603	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.044	40573987	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.752	8407560	NoCal	ng/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

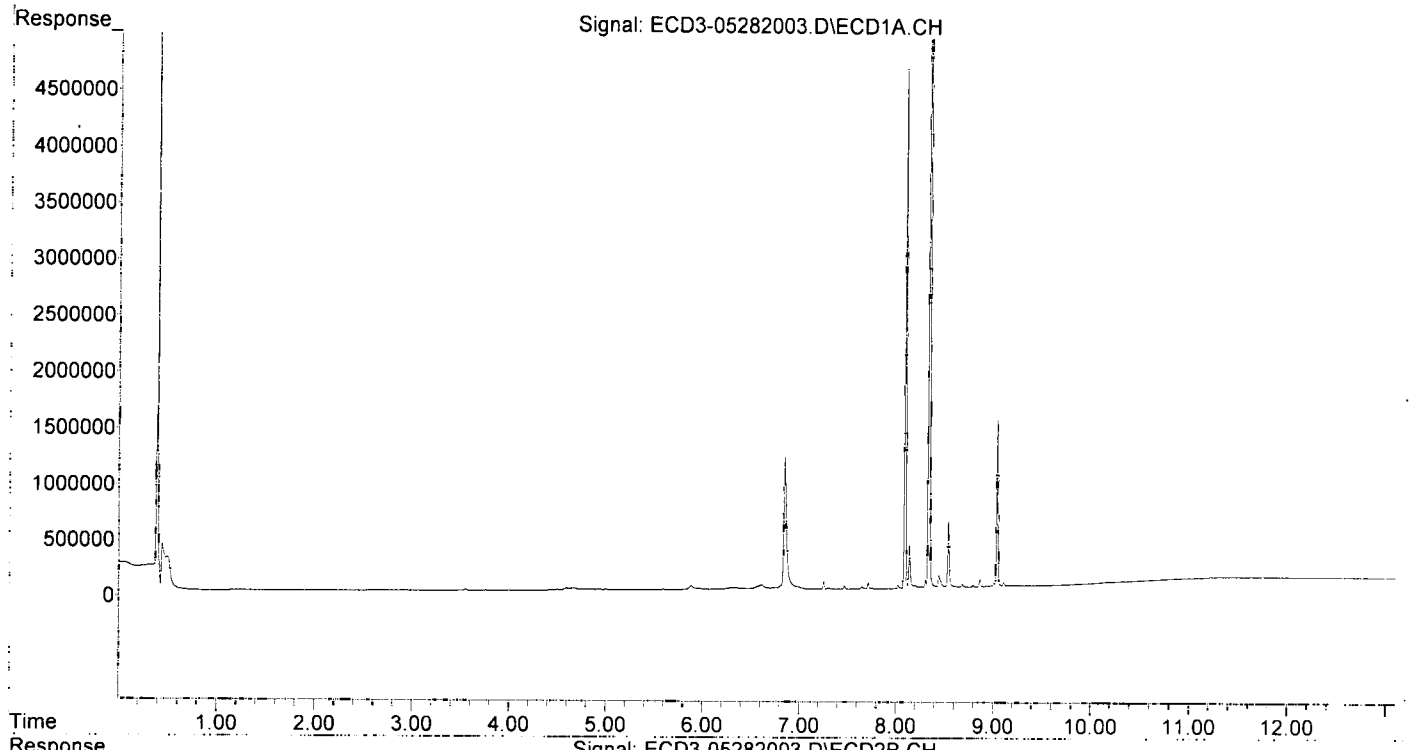
Failed. Maintenance performed.

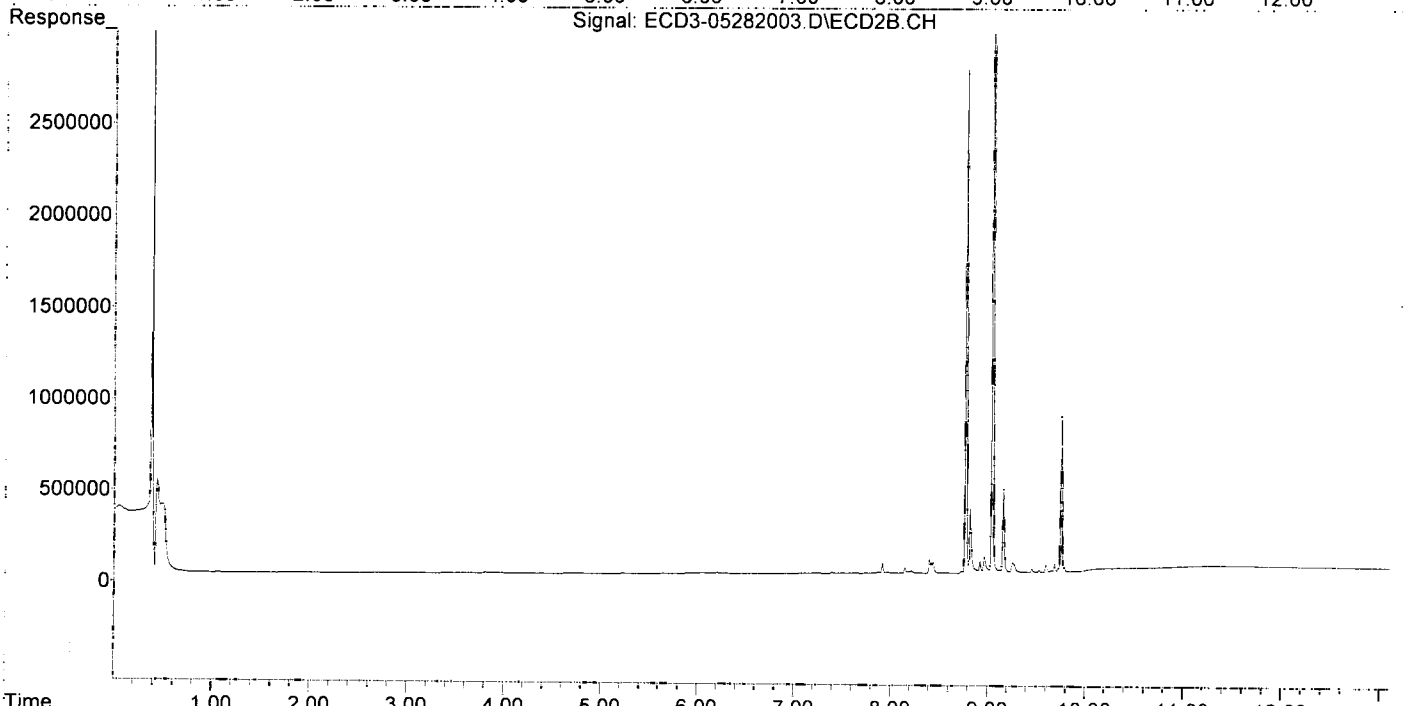
MJB 6/1/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 11:48
Operator : MJB
Sample : 0E28051-BKD1
Misc : A20E203
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 28 12:02:14 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410RT9.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





07/15/20 Anchor QEA, LLC - Casco PreRD DG 2019 - 4a-5. DOC-CAP Testing Cores Page 541 of 1445

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0E28051 BKD2
Data File: ECD3-05282006.D

First Column Area Counts		Percent Breakdown	
DDE	645936		
DDD	4843109		
DDT	88829673	**5.82**	**PASS**
Endrin	51703866	**22.61**	**FAIL**
Endrin Aldehyde	4390847		
Endrin Ketone	10718356		

DDx only

Second Column Area Counts		Percent Breakdown	
DDE	941190		
DDD	5854402		
DDT	44515213	**13.24**	**PASS**
Endrin	32088777	**22.23**	**FAIL**
Endrin Aldehyde	3089639		
Endrin Ketone	6081726		

Breakdown must be less than 15% to accept sample data.

MJB
6/1/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 14:15
Operator : MJB
Sample : 0E28051-BKD2
Misc : A20E203
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:06:31 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410RTA.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.700	645936	NoCal	ng/mL
2)	Endrin	8.076	51703866	NoCal	ng/mL
3)	4,4'-DDD	8.124	4843109	NoCal	ng/mL
4)	4,4'-DDT	8.323	88829673	NoCal	ng/mL
5)	Endrin Aldehyde	8.526	4390847	NoCal	ng/mL
6)	Endrin Ketone	9.026	10718356	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.387	941190	NoCal	ng/mL
9)	Endrin [2C]	8.756	32088777	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.804	5854402	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.143	3089639	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.028	44515213	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.736	6081726	NoCal	ng/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

cut at 7.5" off guard column

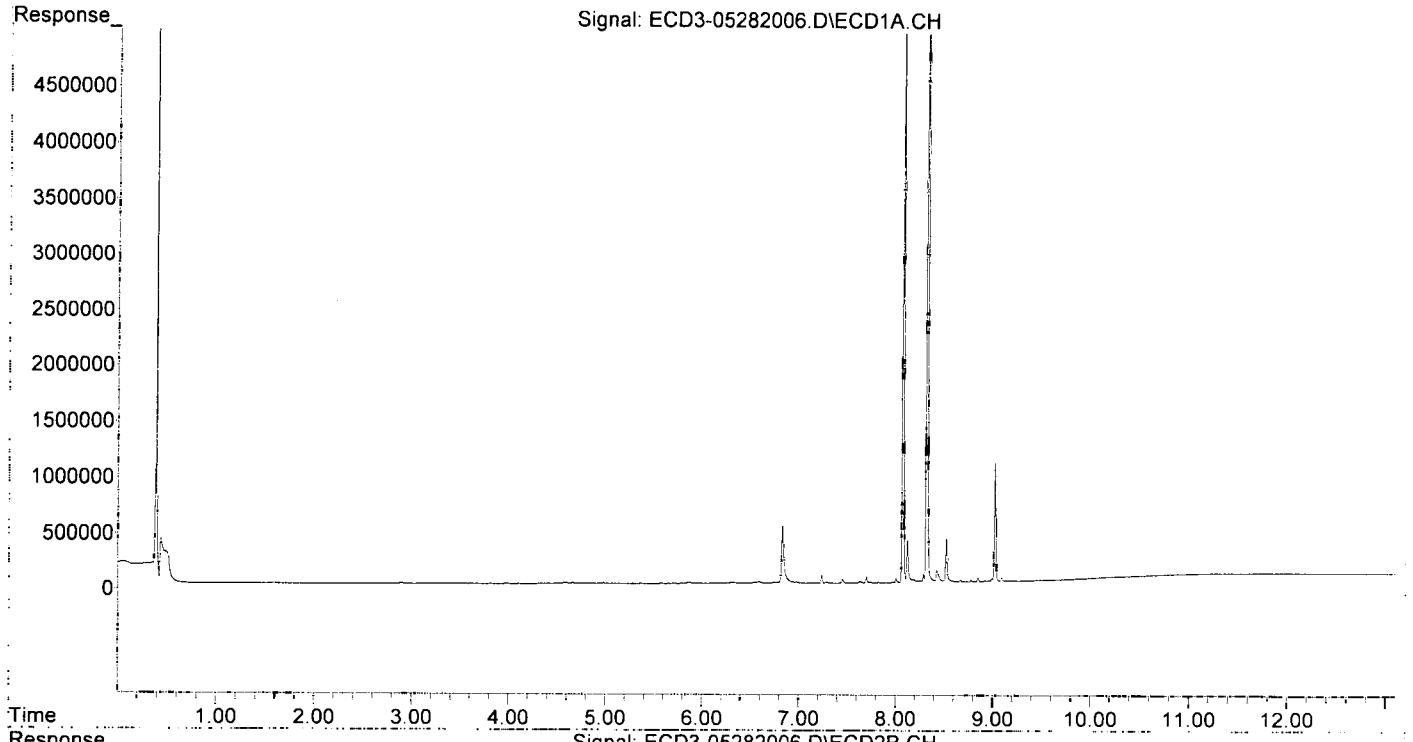
MJB
6/1/20

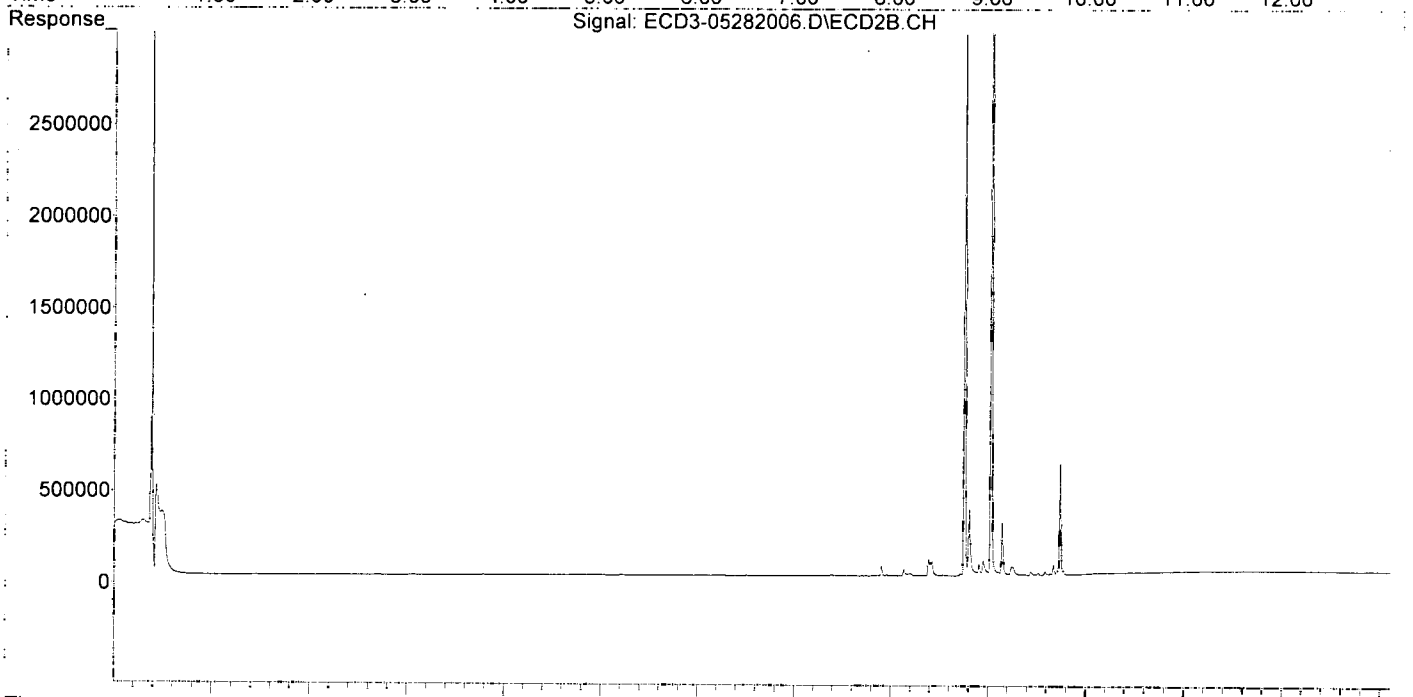
07/15/20 Anchor QEA, LLC - Casco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 543 of 1443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 14:15
Operator : MJB
Sample : 0E28051-BKD2
Misc : A20E203
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:06:31 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410RTA.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 14:32
Operator : MJB
Sample : 0E28051-CCV1
Misc : A20E232, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:26 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

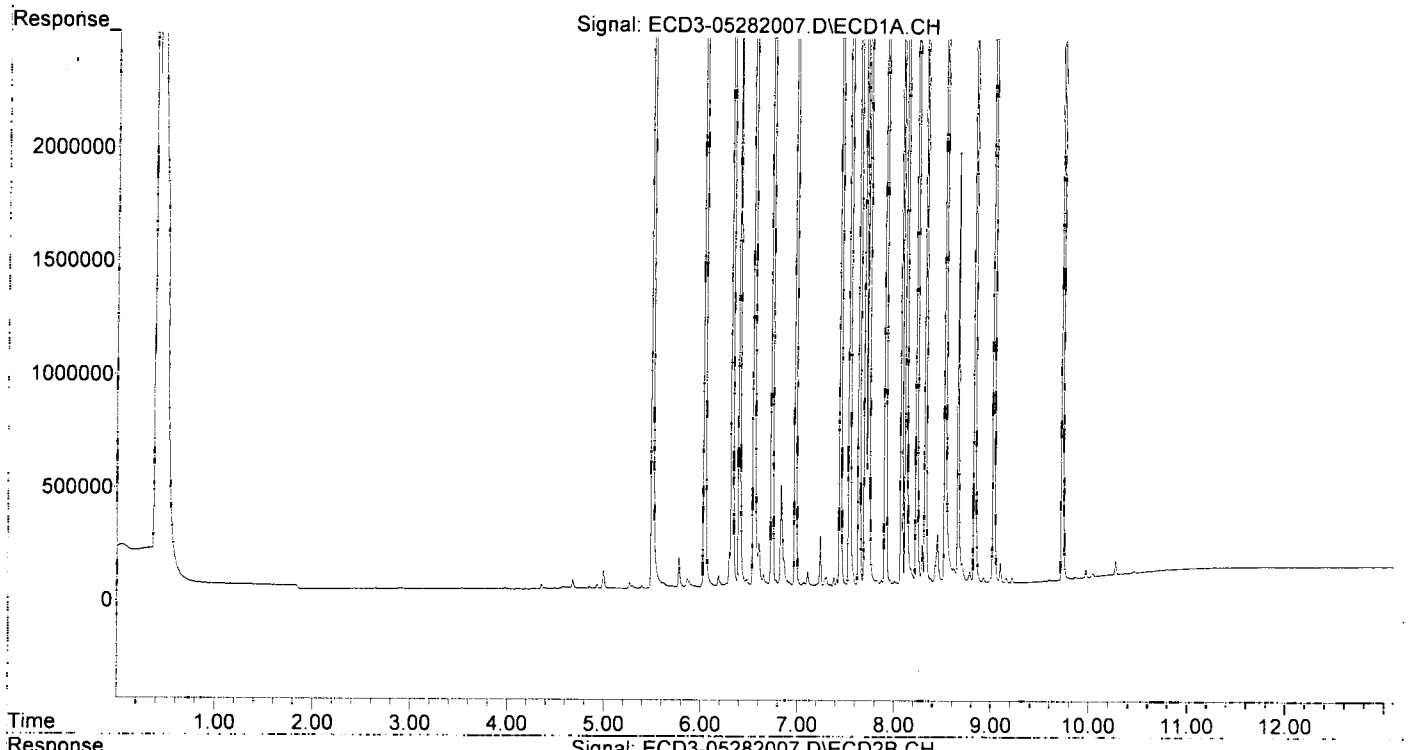
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.501	6.018	7331720	4747248	49.503	42.532	
22)	S	DCBP (S)	9.731	10.612	5470656	3305611	49.680	49.832	
		Target Compounds							
2)		a-BHC	6.042	6.626	10184105	6979622	50.343	44.464	
3)		g-BHC	6.327	6.945	8823111	6003556	51.095	44.561	
4)		b-BHC	6.401	7.010	3604995	2428417	52.842	39.540	
5)		Heptachlor	6.739	7.319	7368660	4325579	45.000	38.211	
6)		d-BHC	6.552	7.267	8125007	4813884	57.884	39.382	
7)		Aldrin	6.982	7.588	8990169	6285411	53.628	47.295	
8)		Heptachlo...	7.446	8.028	7697923	5378032	49.225	45.696	
9)		trans-Chl...	7.542	8.169	8013892	5487892	50.928	45.504	
10)		cis-Chlor...	7.640	8.277	7775682	5353237	49.536	46.217	
11)		Endosulfa...	7.739	8.327	7132265	4909113	49.695	45.650	
12)		4,4'-DDE	7.701	8.385	7598817	5311470	52.677	46.126	
13)		Dieldrin	7.912	8.529	8049365	5536294	50.085	46.235	
14)		Endrin	8.078	8.758	4760854	2921764	38.592	33.797	
15)		4,4'-DDD	8.125	8.804	5941249	3759335	48.938	39.838	
16)		Endosulfa...	8.235	8.908	6087053	3995855	50.285	~~43.567~~	
17)		4,4'-DDT	8.324	9.030	4185804	2135312	44.124	36.328	Q-31
18)		Endrin Al...	8.527	9.146	5105005	3586565	49.256	45.003	
19)		Endosulfa...	8.832	9.337	5742114	3231434	47.668	38.388	
20)		Methoxychlor	8.661	9.512	1907736	940302	42.738	33.966	
21)		Endrin Ke...	9.028	9.739	7175037	4067890	49.810	42.517	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.907	6.537f	7576	13429	BelowCal	2197.505	
25)		Oxychlordane	7.381	7.991	37464	27198	0.090	0.056	
26)		2,4'-DDE	7.446	8.169	7697923	5487892	83.030	73.198	
27)		trans-Non...	7.640	8.277f	7775682	5353237	53.841	49.537	
28)		2,4'-DDD	7.872f	8.529f	21095	5536294	0.041	85.136	#
29)		2,4'-DDT	8.007	8.804f	17161	3759335	0.228	70.085	#
30)		cis-Nonac...	8.125	8.804	5941249	3759335	38.382	32.493	
31)		Mirex	8.781	9.739	52382	4067890	0.159	60.677	#
32)		Chlordane...	7.701	8.327	7598817	4909113	430.516	339.327	
33)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)		Chlordane...	0.000	9.146f	0	3586565	N.D.	991.057	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	0.000	8.721f	0	15536	N.D.	13.872	#
37)		Toxaphene...	8.125f	9.030	5941249	2135312	3942.866	1565.404	#
38)		Toxaphene...	8.448f	0.000	218615	0	70.286	N.D.	#
39)		Toxaphene...	8.661	9.146	1907736	3586565	654.263	1095.256	#
40)		Toxaphene...	8.924f	9.337	24030	3231434	10.203	1707.196	#
41)		Toxaphene...	8.996f	9.709	24345	13999	8.026	6.917	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

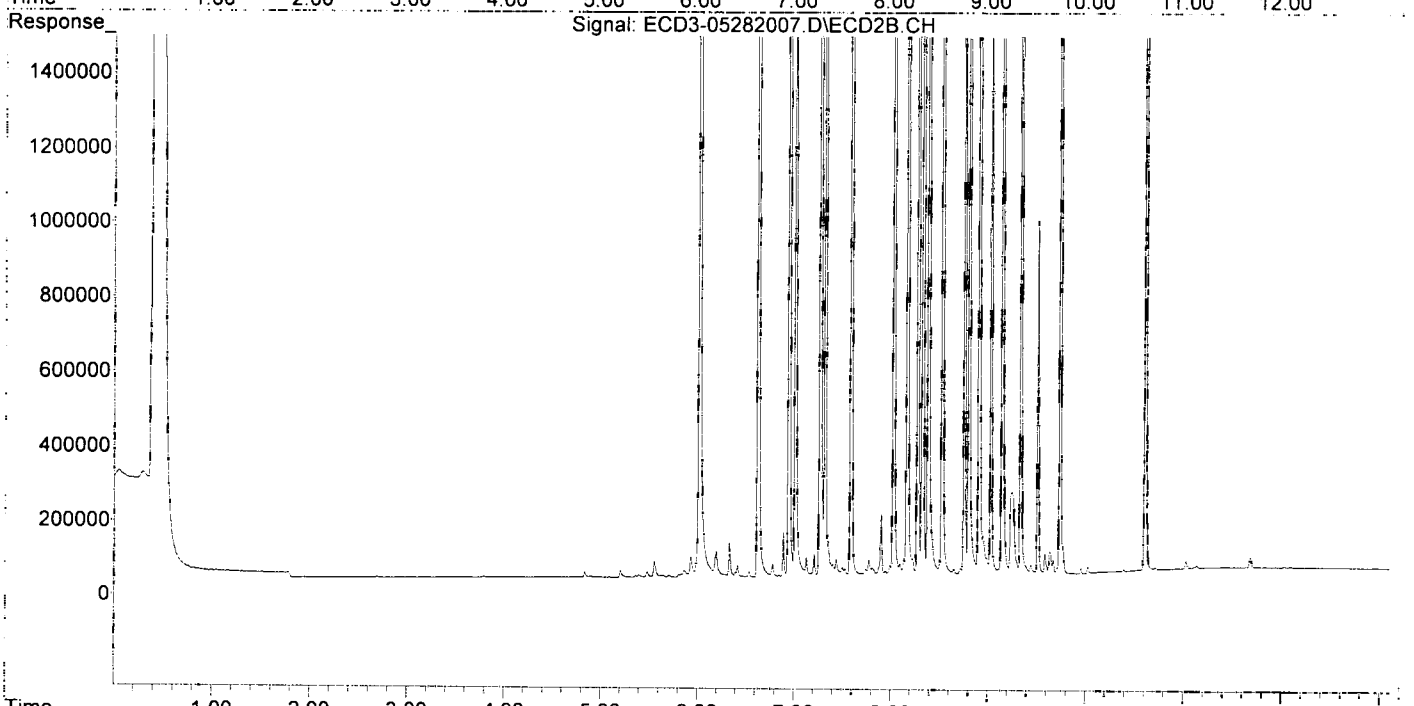
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 14:32
Operator : MJB
Sample : 0E28051-CCV1
Misc : A20E232, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:26 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 14:50
Operator : MJB
Sample : 0E28051-CCV2
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:30 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

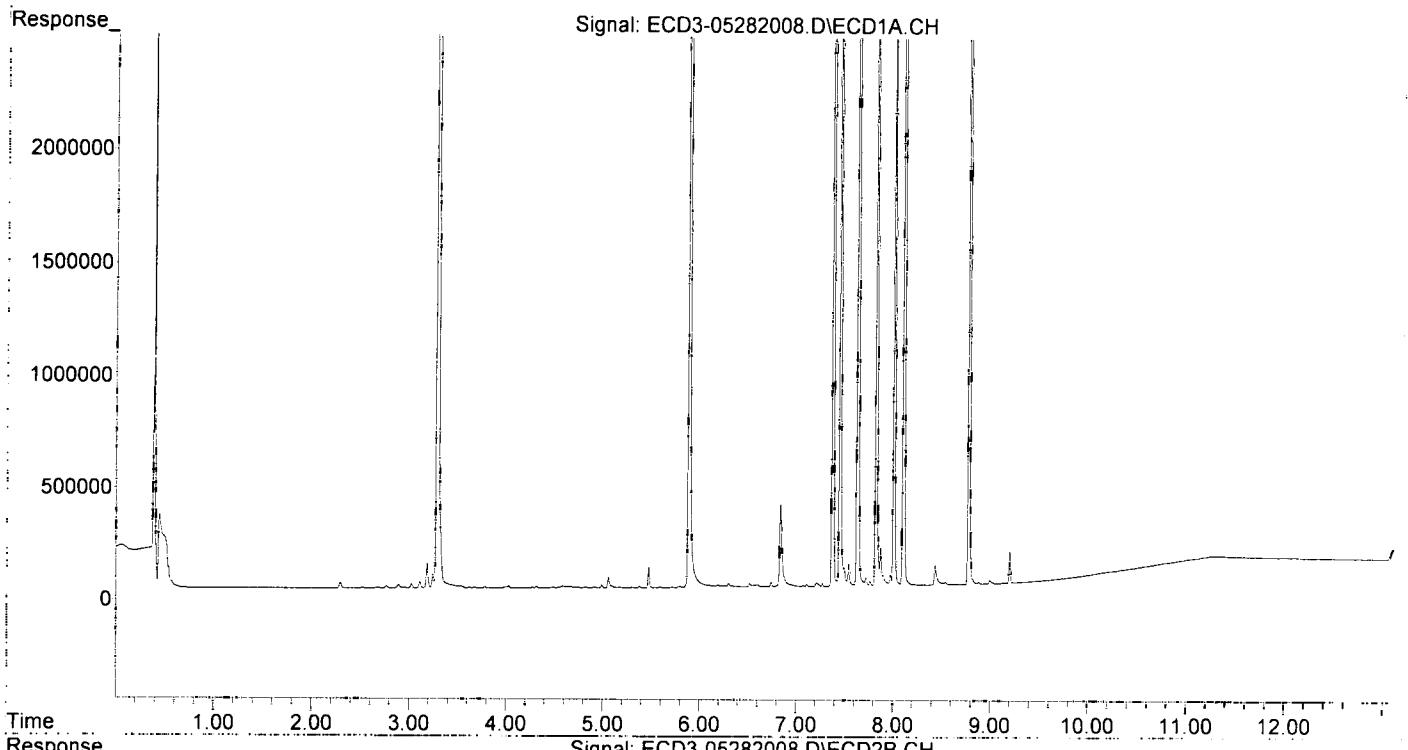
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.474f	0.000	91397	0	0.617	N.D.	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.302f	0.000	13841	0	0.080	N.D.	#
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	6.741	7.321	19403	11858	0.118	0.105	
6)		d-BHC	6.519f	0.000	14145	0	0.101	N.D.	#
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	7.449	8.062f	4998781	38849	31.965	0.330	#
9)		trans-Chl...	7.543	8.164	100645	3563704	0.640	29.549	#
10)		cis-Chlor...	7.633	8.279	7293561	214509	46.465	1.852	#
11)		Endosulfa...	7.721	8.343	36235	26971	0.252	0.251	
12)		4,4'-DDE	7.721f	0.000	36235	0	0.251	N.D.	#
13)		Dieldrin	7.899	8.539	45814	2835362	0.285	23.679	#
14)		Endrin	8.107f	8.764	8022023	2016477	65.028	23.325	#
15)		4,4'-DDD	8.107	8.804	8022023	5459005	66.077	57.849	
16)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.542	0.000	10484	0	BelowCal	N.D.	
19)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.999f	9.732	14810	3250763	0.103	33.977	#
23)		Hexachlor...	3.288f	3.700f	8562964	7228983	50.443	46.266	
24)		Hexachlor...	5.887	6.490	7041445	4552267	52.013	42.330	
25)		Oxychlordane	7.375	7.959	6458347	4422463	49.491	45.222	
26)		2,4'-DDE	7.449	8.164	4998781	3563704	54.327	46.853	
27)		trans-Non...	7.633	8.235	7293561	5167287	50.508	47.764	
28)		2,4'-DDD	7.824	8.539	4195050	2835362	51.119	42.868	
29)		2,4'-DDT	8.009	8.764	3636945	2016477	48.313	37.593	Q-31
30)		cis-Nonac...	8.107	8.804	8022023	5459005	51.781	47.577	
31)		Mirex	8.781	9.732	4838029	3250763	48.839	48.233	
32)		Chlordane...	7.721	8.343	36235	26971	2.053	1.864	
33)		Chlordane...	7.824	8.429	4195050	7233	202.444	0.585	#
34)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
35)		Chlordane...	3.986	0.000	5155	0	NoCal	N.D.	
36)		Toxaphene...	7.824	8.651f	4195050	75034	5039.611	66.996	#
37)		Toxaphene...	8.107	0.000	8022023	0	5323.755	N.D.	#
38)		Toxaphene...	8.435	0.000	88095	0	28.323	N.D.	#
39)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
40)		Toxaphene...	8.882	0.000	9901	0	4.204	N.D.	#
41)		Toxaphene...	8.999f	9.732f	14810	3250763	4.882	1606.114	#
42)		Toxaphene...	3.986	0.000	5155	0	NoCal	N.D.	

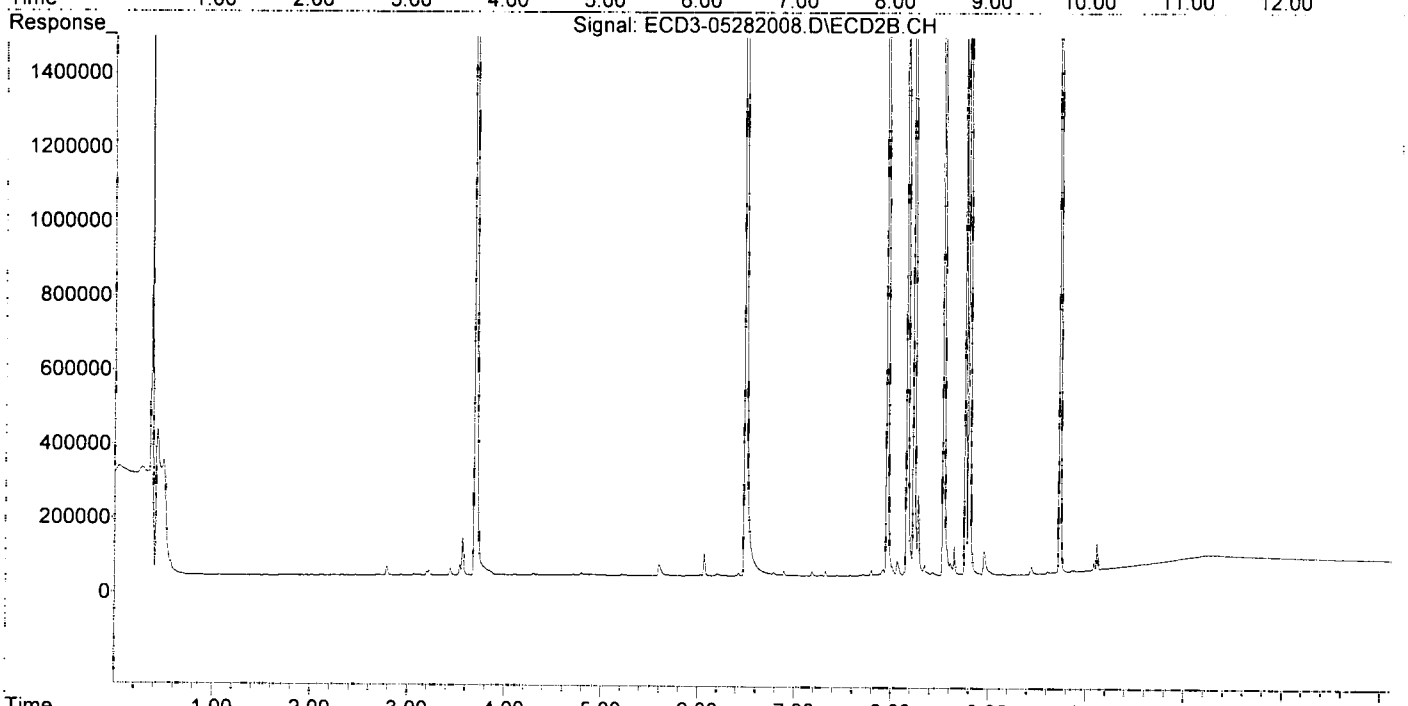
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 14:50
Operator : MJB
Sample : 0E28051-CCV2
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:30 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 15:07
Operator : MJB
Sample : 0E28051-CCB1
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:34 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

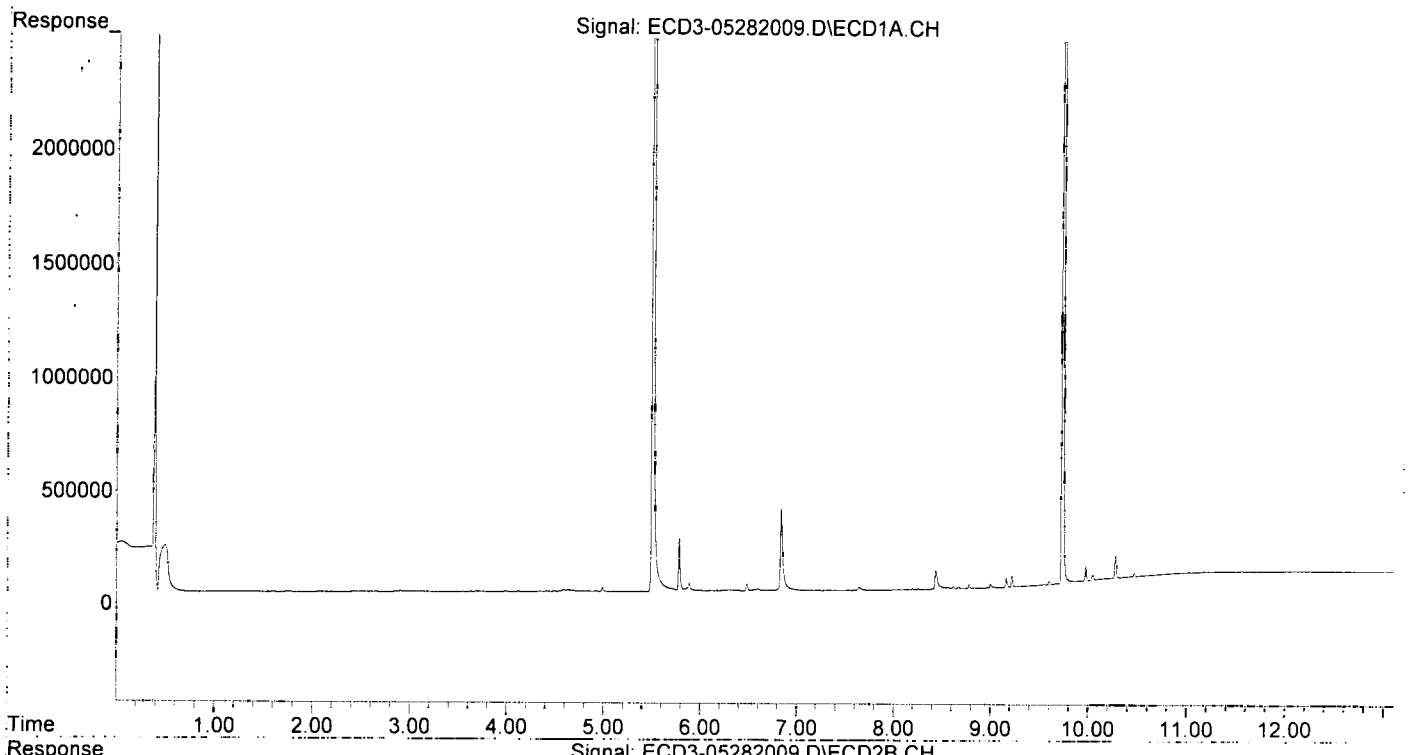
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.504	6.021	14381423	8923625	97.102	81.820	
22)	S	DCBP (S)	9.733	10.613	9804182	5914518	89.098	91.039	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	0.000	0.000	0	0	N.D.	N.D.	
10)		cis-Chlor...	7.642	0.000	11295	0	0.072	N.D.	#
11)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)		Endrin	0.000	0.000	0	0	N.D.	N.D.	
15)		4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
16)		Endosulfa...	8.254	8.919	4226	1958	0.035	0.021	
17)		4,4'-DDT	0.000	9.054f	0	4622	N.D.	0.155	#
18)		Endrin Al...	8.528	0.000	6306	0	BelowCal	N.D.	
19)		Endosulfa...	0.000	9.316f	0	3631	N.D.	0.043	#
20)		Methoxychlor	8.670	0.000	6951	0	0.208	N.D.	#
21)		Endrin Ke...	8.998f	0.000	14705	0	0.102	N.D.	#
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.887	0.000	29402	0	0.018	N.D.	#
25)		Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)		2,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
27)		trans-Non...	7.642	0.000	11295	0	BelowCal	N.D.	
28)		2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)		2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
30)		cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
31)		Mirex	8.779	0.000	16965	0	7125.713	N.D.	#
32)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
33)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)		Toxaphene...	0.000	9.054	0	4622	N.D.	3.389	#
38)		Toxaphene...	8.435	9.054	83940	4622	26.987	2.130	#
39)		Toxaphene...	8.670	0.000	6951	0	BelowCal	N.D.	
40)		Toxaphene...	0.000	9.316	0	3631	N.D.	BelowCal	
41)		Toxaphene...	8.998f	0.000	14705	0	4.848	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

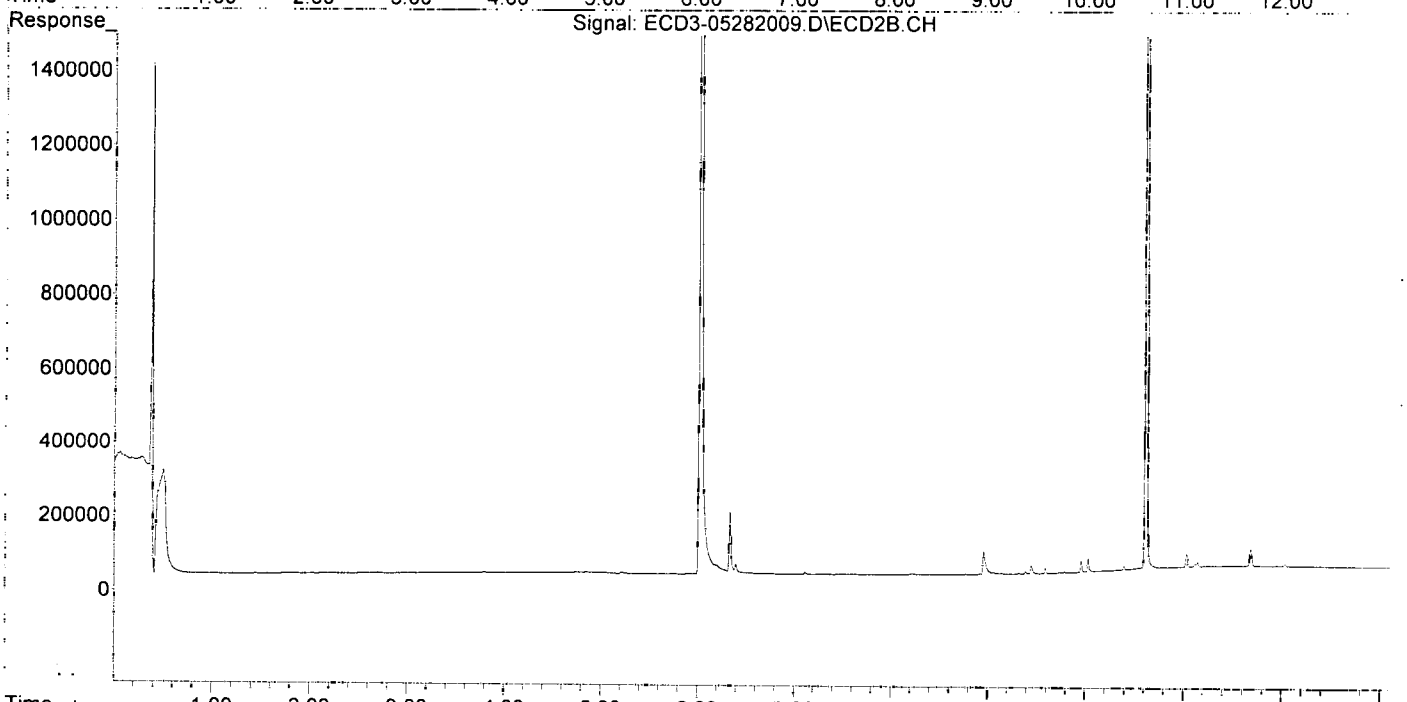
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 15:07
Operator : MJB
Sample : 0E28051-CCB1
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:34 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 15:58
Operator : MJB
Sample : 0050653-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 15:26:50 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

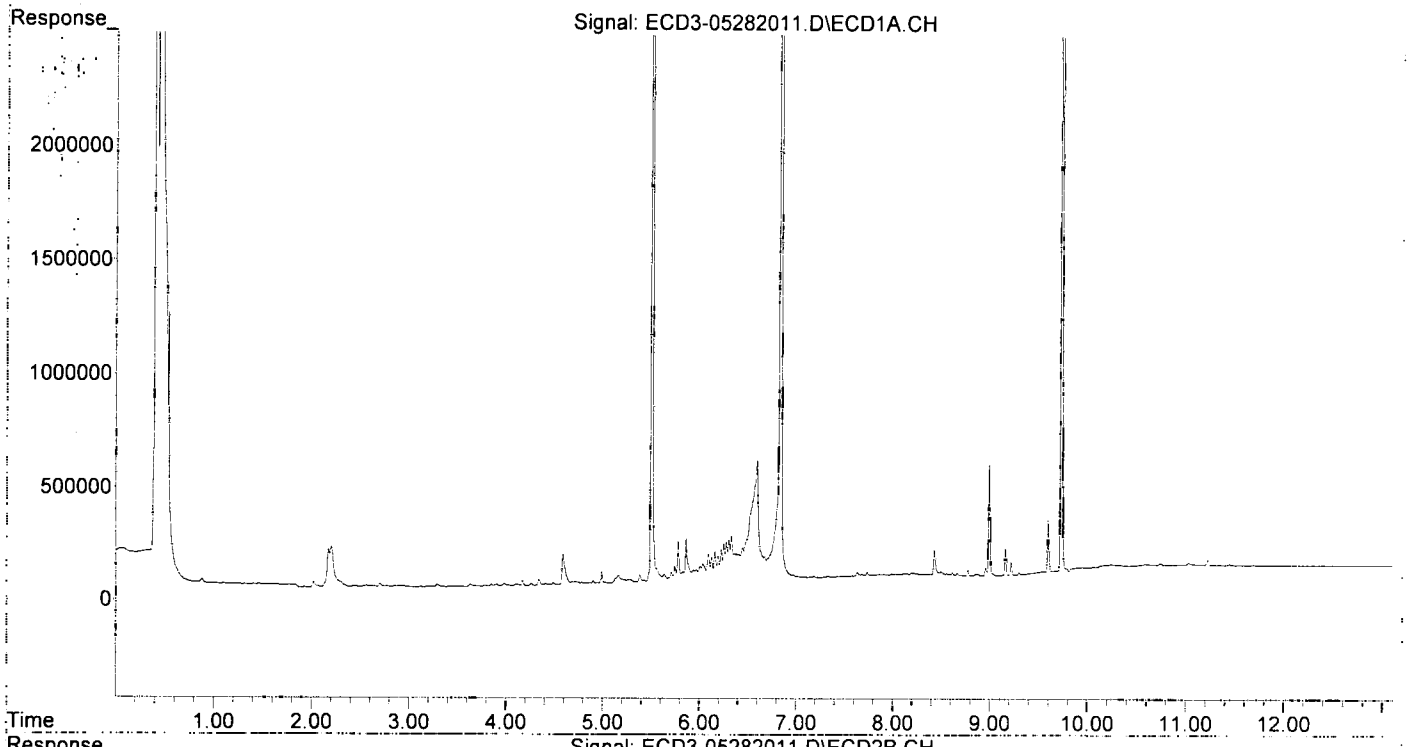
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.506	6.022	6723972	4562572	45.399	40.835	
22)	S DCBP (S)	9.733	10.615	6343323	3708487	57.626	56.093	
	Target Compounds							
2)	a-BHC	6.038	0.000	69010	0	0.341	N.D.	#
3)	g-BHC	6.333	0.000	188301	0	1.090	N.D.	#
4)	b-BHC	6.410	7.018	104503	4299	1.532	0.070	#
5)	Heptachlor	6.708f	0.000	82417	0	0.503	N.D.	#
6)	d-BHC	0.000	7.238f	0	17702	N.D.	0.145	#
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	7.526	8.202f	2604	52660	0.017	0.437	#
10)	cis-Chlor...	7.634	0.000	16226	0	0.103	N.D.	#
11)	Endosulfa...	7.737	0.000	14949	0	0.104	N.D.	#
12)	4,4'-DDE	7.682	8.402	7468	10113	0.052	0.088	#
13)	Dieldrin	7.915	0.000	2035	0	0.013	N.D.	#
14)	Endrin	0.000	0.000	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
16)	Endosulfa...	8.220	8.874f	4361	3109	0.036	0.034	
17)	4,4'-DDT	0.000	9.020	0	3776	N.D.	0.140m	#
18)	Endrin Al...	8.500f	9.122f	14175	7062	BelowCal	3407.120	
19)	Endosulfa...	8.863f	9.316f	7536	5676	0.063	0.067	
20)	Methoxychlor	8.669	0.000	9281	0	0.265	N.D.	#
21)	Endrin Ke...	9.032	9.743	9825	11173	0.068	0.117	#
23)	Hexachlor...	3.290	3.702	9650	8631	2108.646	838.025	#
24)	Hexachlor...	5.937f	6.507	42313	22354	0.115	2197.423	#
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.498f	8.202f	2759	52660	BelowCal	0.450	
27)	trans-Non...	7.634	0.000	16226	0	BelowCal	N.D.	
28)	2,4'-DDD	7.862f	0.000	2322	0	BelowCal	N.D.	
29)	2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
30)	cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
31)	Mirex	8.778	9.743	25512	11173	7125.626	3567.364	#
32)	Chlordane...	7.737f	0.000	14949	0	0.847	N.D.	#
33)	Chlordane...	0.000	8.402f	0	10113	N.D.	0.818	#
34)	Chlordane...	0.000	9.122	0	7062	N.D.	BelowCal	
35)	Chlordane...	3.981	0.000	8454	0	NoCal	N.D.	
36)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)	Toxaphene...	0.000	9.055	0	4705	N.D.	3.449	#
38)	Toxaphene...	8.431	9.055	108653	4705	34.932	2.168	#
39)	Toxaphene...	8.669	9.122	9281	7062	BelowCal	BelowCal	
40)	Toxaphene...	8.863f	9.316	7536	5676	3.200	BelowCal	#
41)	Toxaphene...	8.962	0.000	34956	0	11.524	N.D.	#
42)	Toxaphene...	3.981	0.000	8454	0	NoCal	N.D.	

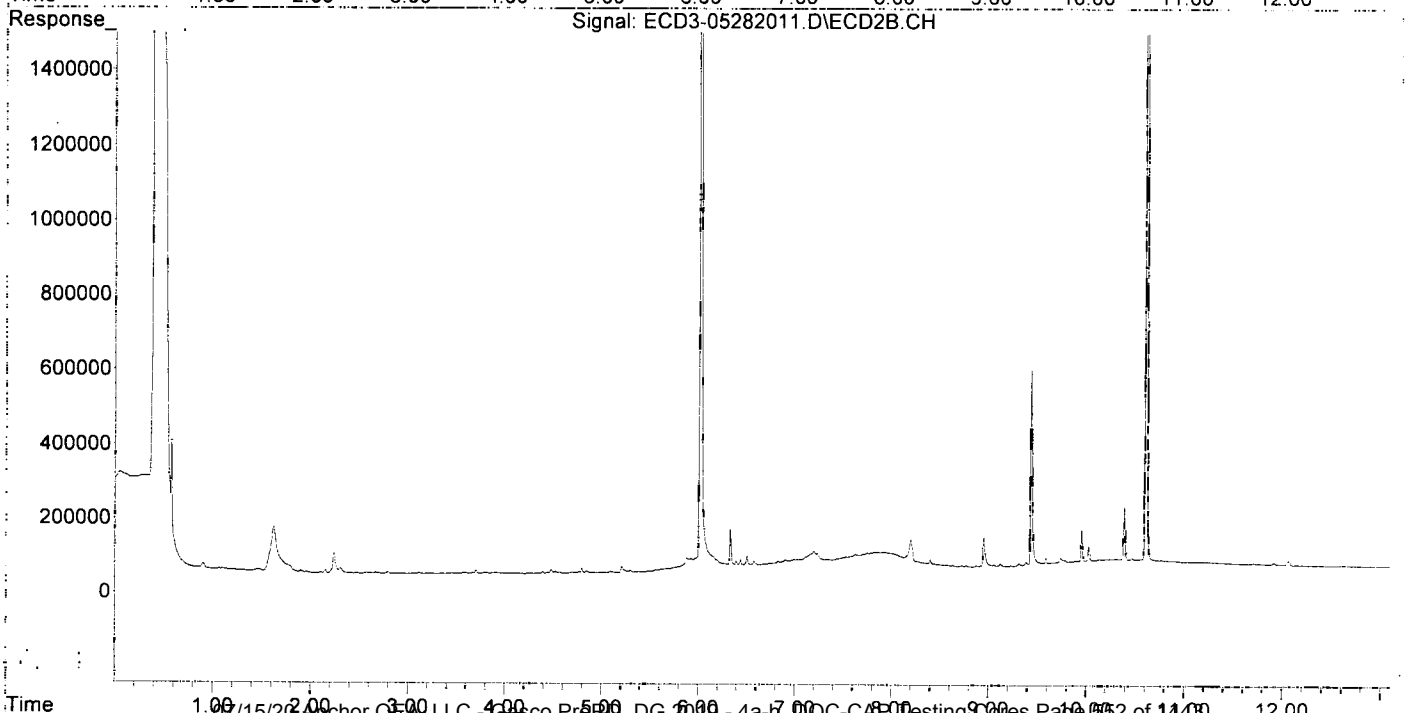
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 15:58
Operator : MJB
Sample : 0050653-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 15:26:50 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

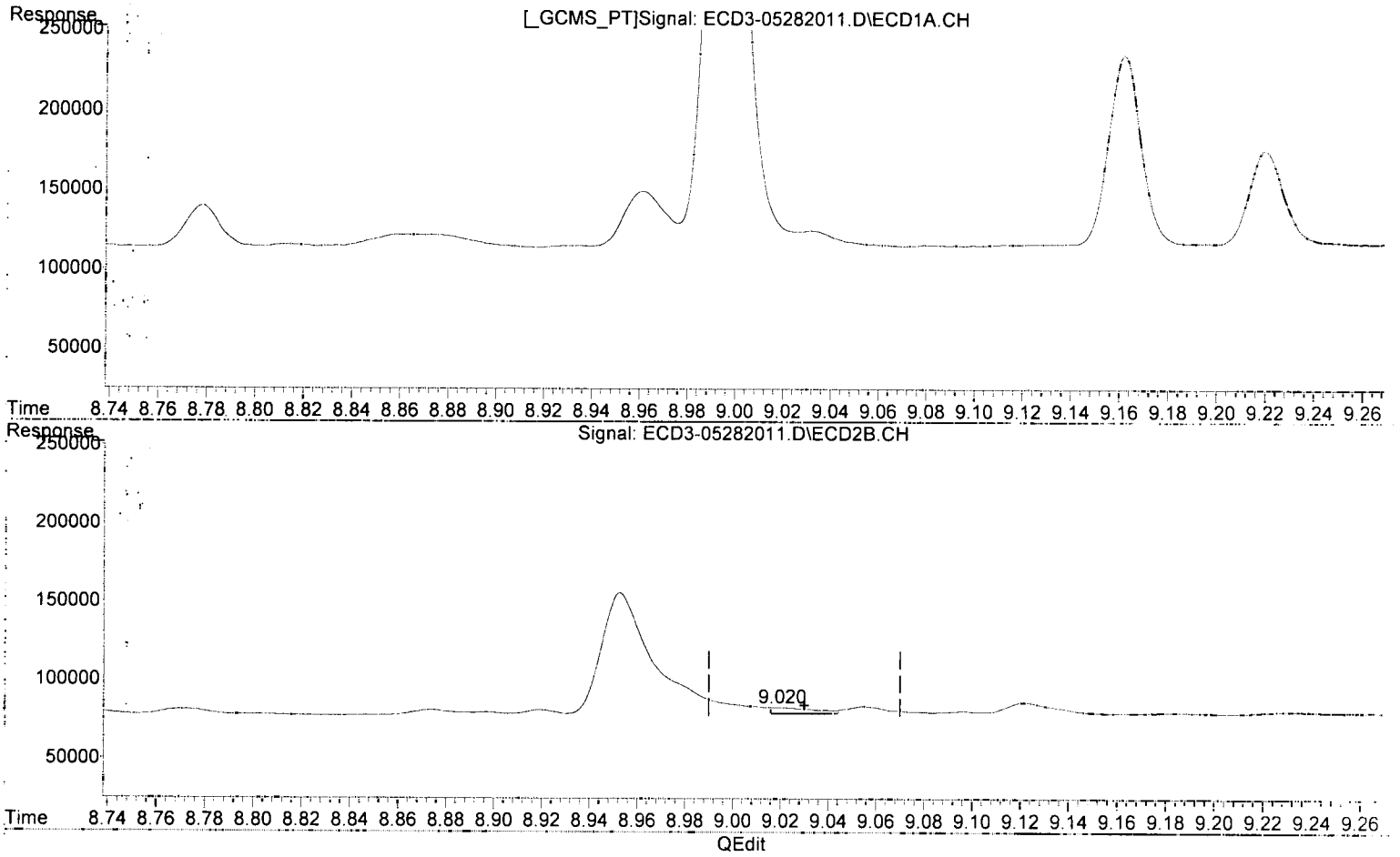




Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 15:58
Operator : MJB
Sample : 0050653-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:38 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

0.000min 0.000 ng/mL

response 0

MJB 6/1/20

(17) 4,4'-DDT #2

9.020min 0.140 ng/mL (m)

response 3776

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 15:58
Operator : MJB
Sample : 0050653-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:38 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MF
MJB
6/11/20

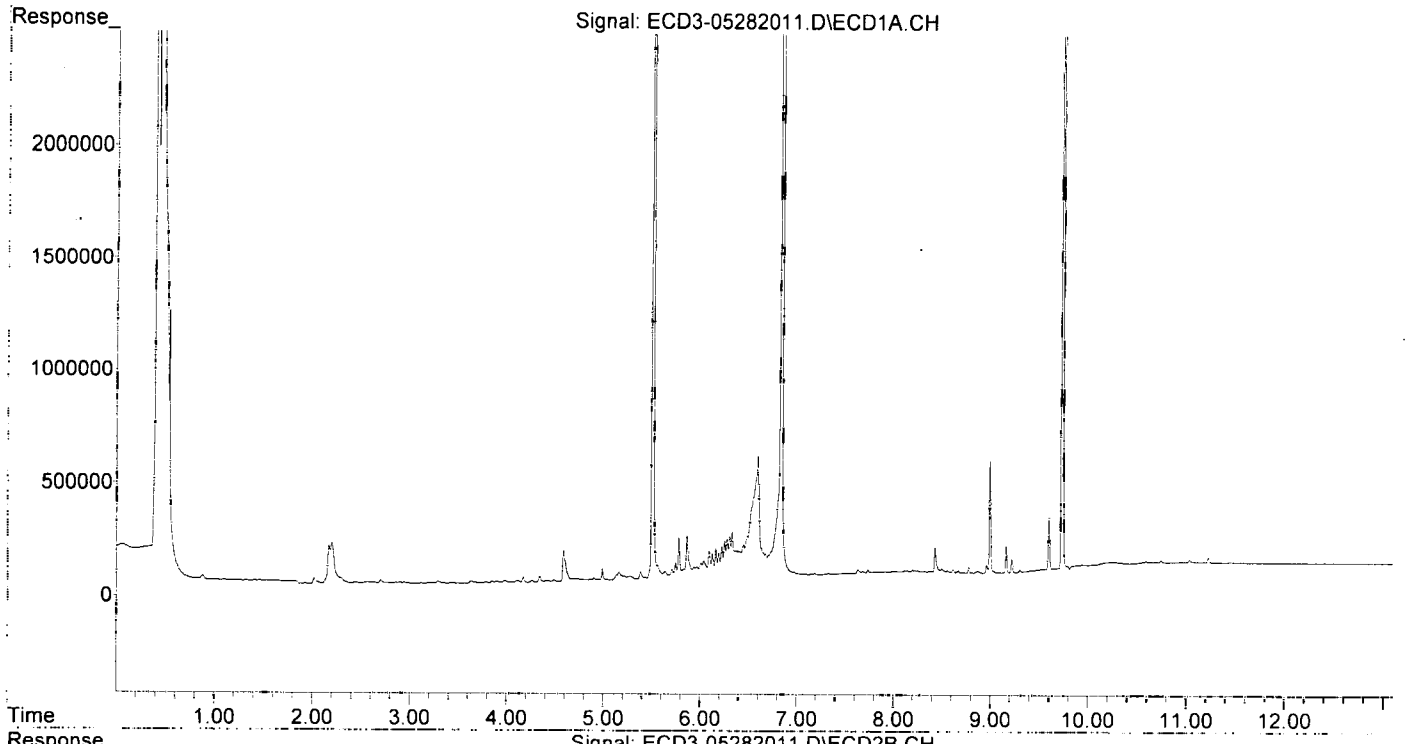
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.506	6.022	6723972	4562572	45.399	40.835	
22)	S	DCBP (S)	9.733	10.615	6343323	3708487	57.626	56.093	
		Target Compounds							
2)		a-BHC	6.038	0.000	69010	0	0.341	N.D.	#
3)		g-BHC	6.333	0.000	188301	0	1.090	N.D.	#
4)		b-BHC	6.410	7.018	104503	4299	1.532	0.070	#
5)		Heptachlor	6.708f	0.000	82417	0	0.503	N.D.	#
6)		d-BHC	0.000	7.238f	0	17702	N.D.	0.145	#
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.526	8.202f	2604	52660	0.017	0.437	#
10)		cis-Chlor...	7.634	0.000	16226	0	0.103	N.D.	#
11)		Endosulfa...	7.737	0.000	14949	0	0.104	N.D.	#
12)		4,4'-DDE	7.682	8.402	7468	10113	0.052	0.088	#
13)		Dieldrin	7.915	0.000	2035	0	0.013	N.D.	#
14)		Endrin	0.000	0.000	0	0	N.D.	N.D.	
15)		4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
16)		Endosulfa...	8.220	8.874f	4361	3109	0.036	0.034	
17)		4,4'-DDT	0.000	9.055f	0	4705	N.D.	0.157	#
18)		Endrin Al...	8.500f	9.122f	14175	7062	BelowCal	3407.120	
19)		Endosulfa...	8.863f	9.316f	7536	5676	0.063	0.067	
20)		Methoxychlor	8.669	0.000	9281	0	0.265	N.D.	#
21)		Endrin Ke...	9.032	9.743	9825	11173	0.068	0.117	#
23)		Hexachlor...	3.290	3.702	9650	8631	2108.646	838.025	#
24)		Hexachlor...	5.937f	6.507	42313	22354	0.115	2197.423	#
25)		Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)		2,4'-DDE	7.498f	8.202f	2759	52660	BelowCal	0.450	
27)		trans-Non...	7.634	0.000	16226	0	BelowCal	N.D.	
28)		2,4'-DDD	7.862f	0.000	2322	0	BelowCal	N.D.	
29)		2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
30)		cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
31)		Mirex	8.778	9.743	25512	11173	7125.626	3567.364	#
32)		Chlordane...	7.737f	0.000	14949	0	0.847	N.D.	#
33)		Chlordane...	0.000	8.402f	0	10113	N.D.	0.818	#
34)		Chlordane...	0.000	9.122	0	7062	N.D.	BelowCal	
35)		Chlordane...	3.981	0.000	8454	0	NoCal	N.D.	
36)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)		Toxaphene...	0.000	9.055	0	4705	N.D.	3.449	#
38)		Toxaphene...	8.431	9.055	108653	4705	34.932	2.168	#
39)		Toxaphene...	8.669	9.122	9281	7062	BelowCal	BelowCal	
40)		Toxaphene...	8.863f	9.316	7536	5676	3.200	BelowCal	#
41)		Toxaphene...	8.962	0.000	34956	0	11.524	N.D.	#
42)		Toxaphene...	3.981	0.000	8454	0	NoCal	N.D.	

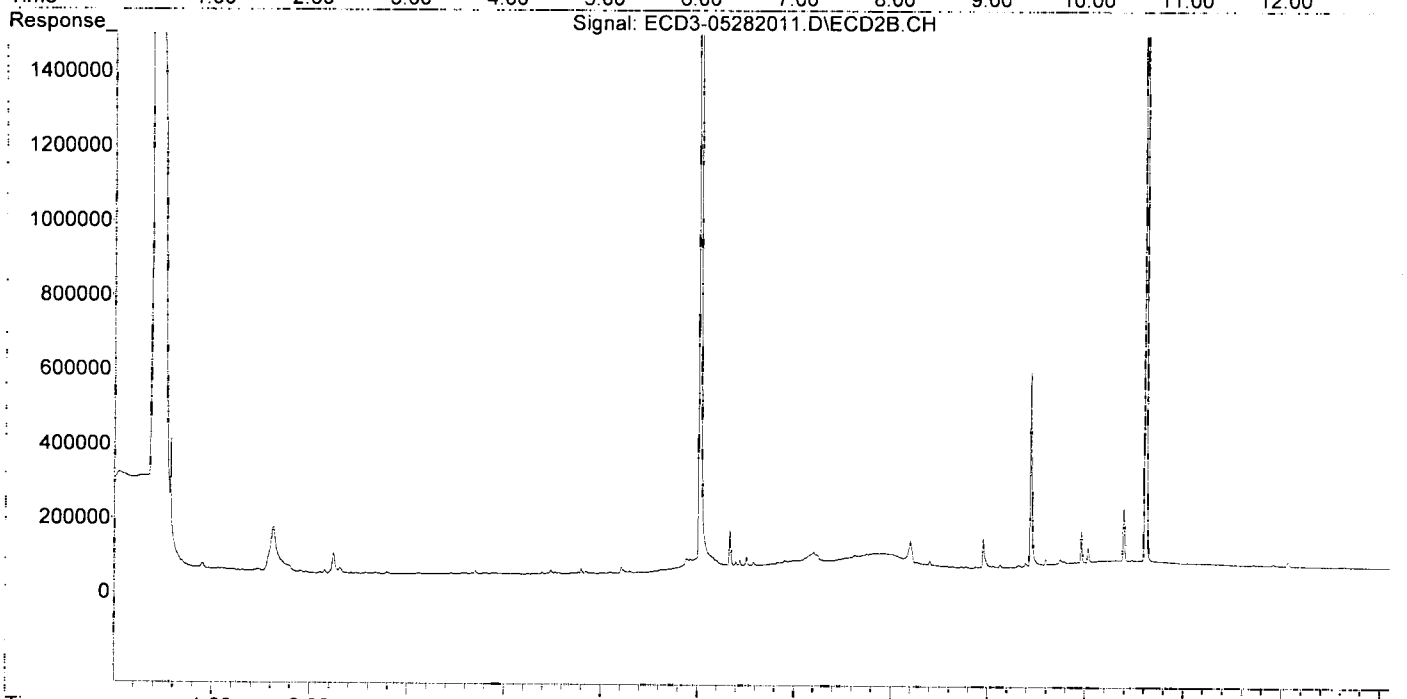
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 15:58
Operator : MJB
Sample : 0050653-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:38 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 16:15
Operator : MJB
Sample : 0050653-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:42 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

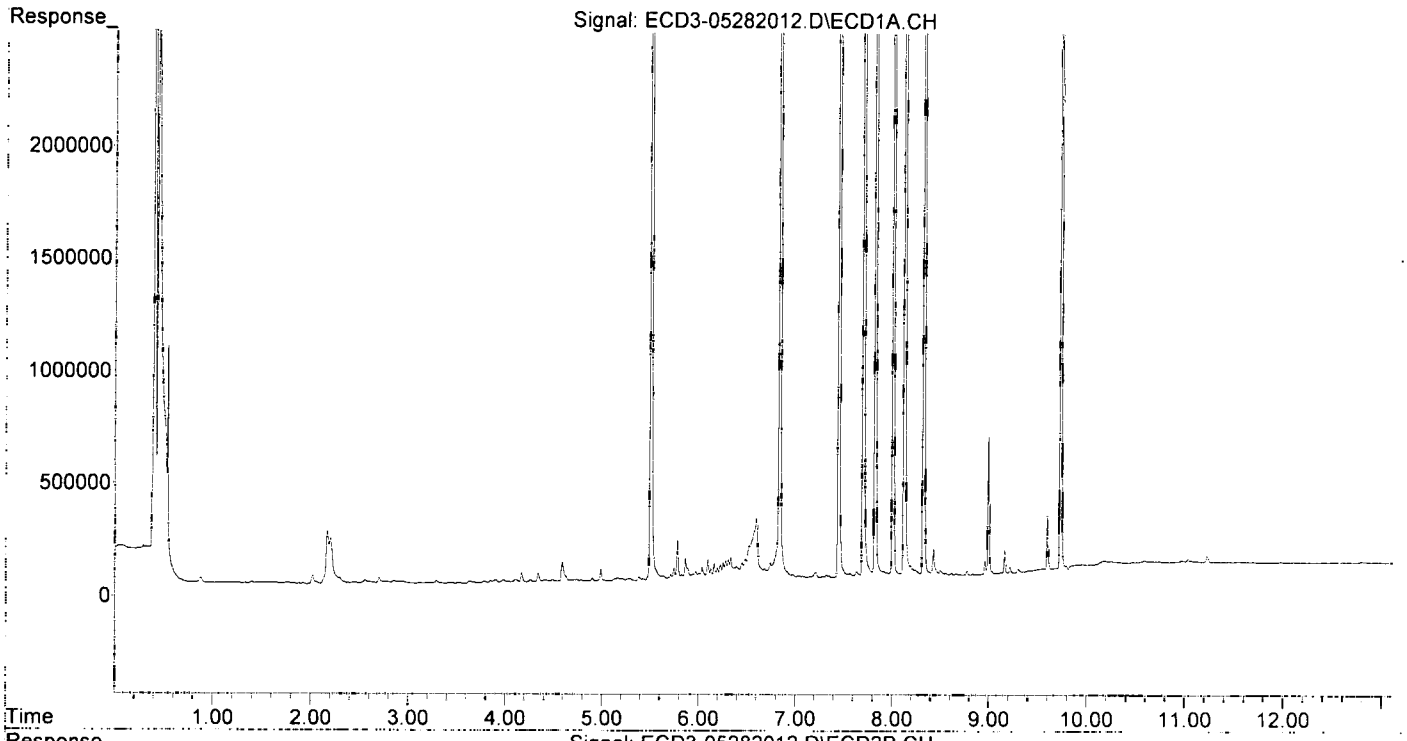
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.505	6.022	7607858	5178519	51.367	46.509	
22)	S	DCBP (S)	9.734	10.615	6362544	3554121	57.801	53.689	
		Target Compounds							
2)		a-BHC	6.038	0.000	42437	0	0.210	N.D.	#
3)		g-BHC	6.333	6.947	78342	2648	0.454	0.020	#
4)		b-BHC	6.391	7.018	37577	1673	0.551	0.027	#
5)		Heptachlor	6.742	0.000	45521	0	0.278	N.D.	#
6)		d-BHC	6.522f	7.243f	126607	6115	0.902	0.050	#
7)		Aldrin	0.000	7.624f	0	8846	N.D.	0.067	#
8)		Heptachlo...	7.450	8.014	8094989	13432	51.764	0.114	#
9)		trans-Chl...	7.541	8.165	14287	6097629	0.091	50.560	#
10)		cis-Chlor...	7.635	0.000	23396	0	0.149	N.D.	#
11)		Endosulfa...	7.703f	0.000	13235220	0	92.218	N.D.	#
12)		4,4'-DDE	7.703	8.388	13235220	9031810	91.750	78.434	
13)		Dieldrin	7.912	8.540	23635	5390597	0.147	45.018	#
14)		Endrin	0.000	8.766	0	4759012	N.D.	55.049	#
15)		4,4'-DDD	8.127	8.806	11318011	6980457	93.225	73.972	
16)		Endosulfa...	8.215	8.914	30576	16339	0.253	0.178	
17)		4,4'-DDT	8.327	9.033	9406372	5274517	89.892	82.069	
18)		Endrin Al...	8.499f	9.121f	23138	10954	BelowCal	3407.072	
19)		Endosulfa...	0.000	9.338	0	3120	N.D.	0.037	#
20)		Methoxychlor	8.666	0.000	6404	0	0.194	N.D.	#
21)		Endrin Ke...	9.030	9.742	13567	17272	0.094	0.181	#
23)		Hexachlor...	3.289f	3.701	11282	9730	2108.637	838.018	#
24)		Hexachlor...	5.888	6.507	41328	32261	0.108	0.052	#
25)		Oxychlordane	7.352f	7.951f	8526	12983	BelowCal	3277.606	
26)		2,4'-DDE	7.450	8.165	8094989	6097629	87.211	81.692	
27)		trans-Non...	7.635	0.000	23396	0	BelowCal	N.D.	
28)		2,4'-DDD	7.825	8.540	7949541	5390597	96.686	82.826	
29)		2,4'-DDT	8.009	8.766	7974551	4759012	105.933	88.722	
30)		cis-Nonac...	8.127	8.806	11318011	6980457	72.885	61.238	
31)		Mirex	8.776	9.742	19043	17272	7125.692	3567.274	#
32)		Chlordane...	7.703	0.000	13235220	0	749.851	N.D.	#
33)		Chlordane...	7.825	0.000	7949541	0	383.627	N.D.	#
34)		Chlordane...	0.000	9.121	0	10954	N.D.	BelowCal	
35)		Chlordane...	3.981	0.000	11838	0	NoCal	N.D.	
36)		Toxaphene...	7.825	8.720f	7949541	4021	9549.970	3.590	#
37)		Toxaphene...	8.127f	9.033	11318011	5274517	7511.113	3866.765	#
38)		Toxaphene...	8.430	9.033f	117531	5274517	37.787	2430.267	#
39)		Toxaphene...	8.666	9.121	6404	10954	BelowCal	BelowCal	
40)		Toxaphene...	0.000	9.315	0	4275	N.D.	BelowCal	
41)		Toxaphene...	8.960	0.000	59519	0	19.621	N.D.	#
42)		Toxaphene...	3.981	0.000	11838	0	NoCal	N.D.	

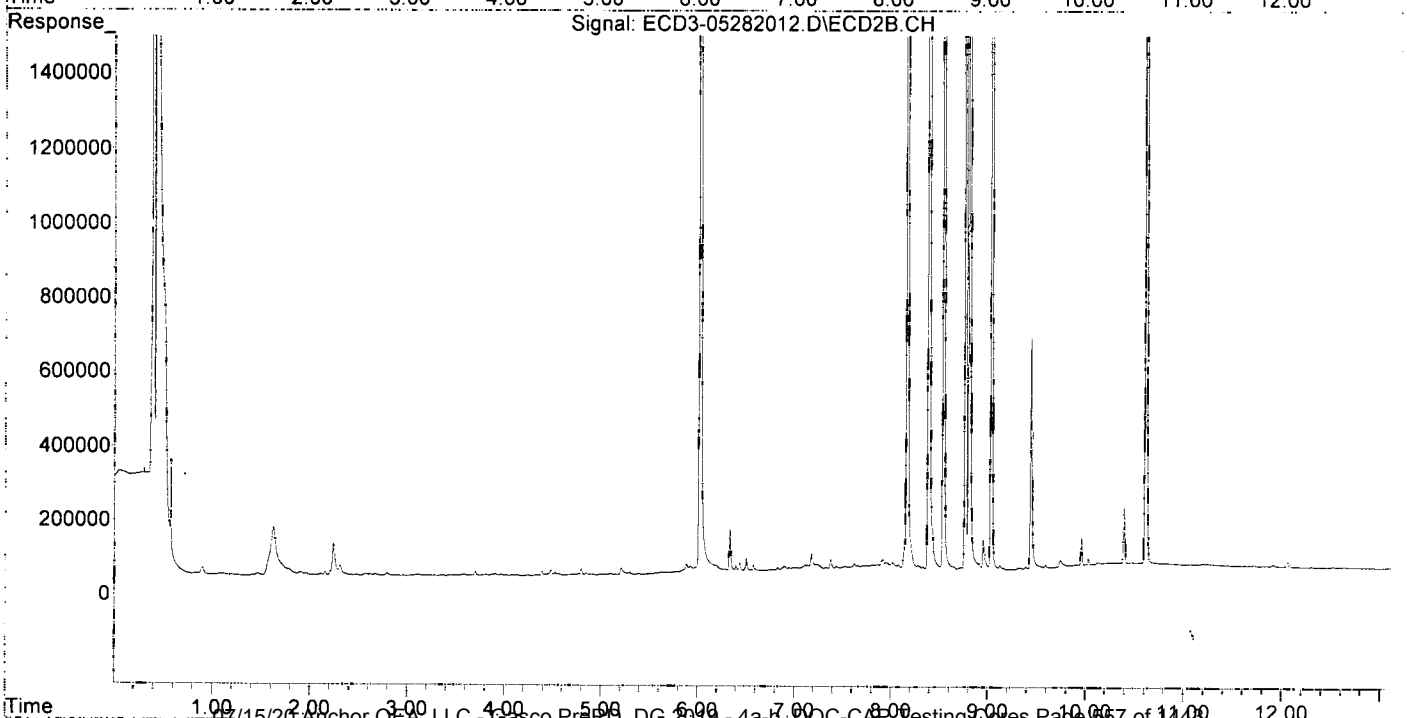
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 16:15
Operator : MJB
Sample : 0050653-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:42 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 16:33
Operator : MJB
Sample : 0050653-BSD1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:46 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Q-19

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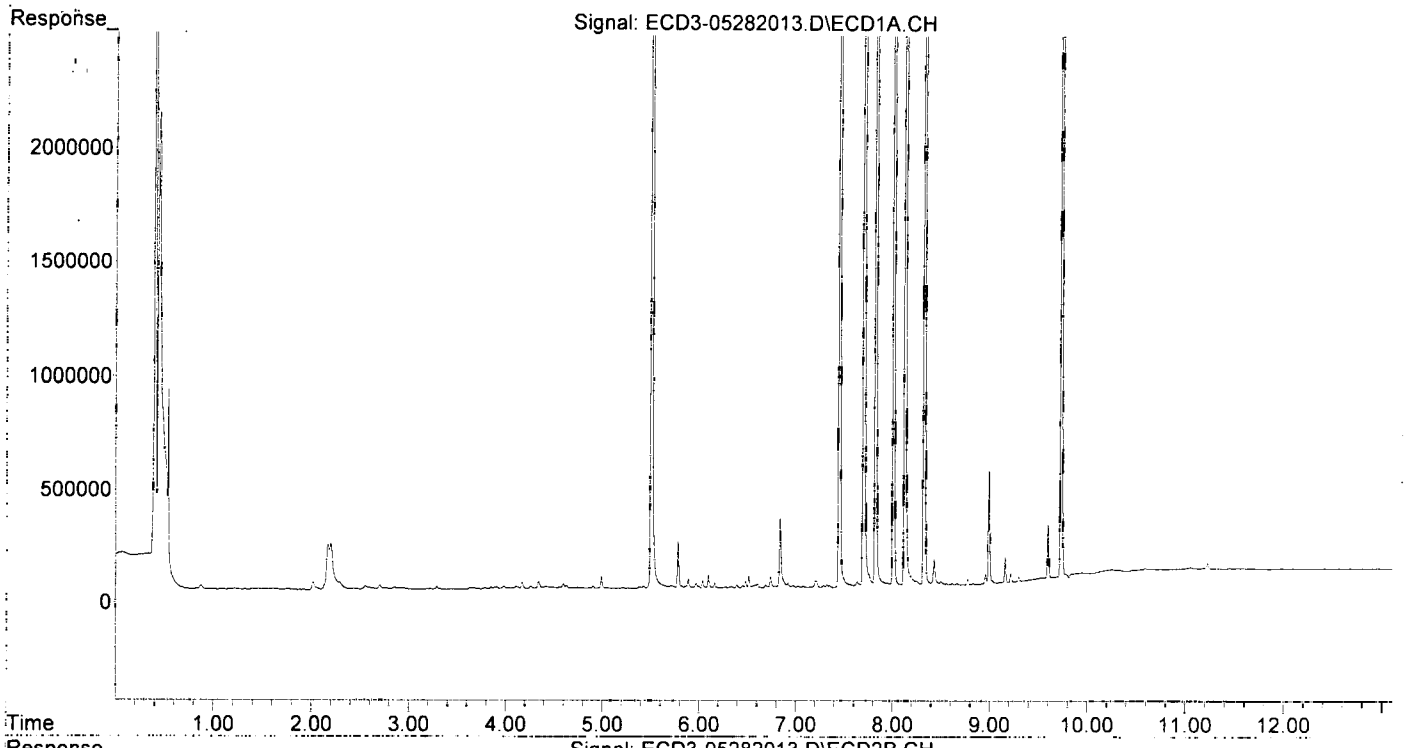
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.505	6.022	10574056	7239274	71.395	65.763	
22)	S DCBP (S)	9.733	10.615	6341675	3648720	57.611	55.162	
	Target Compounds							
2)	a-BHC	6.038	0.000	33810	0	0.167	N.D.	#
3)	g-BHC	6.331	0.000	6336	0	0.037	N.D.	#
4)	b-BHC	6.390	0.000	13882	0	0.203	N.D.	#
5)	Heptachlor	6.741	0.000	49218	0	0.301	N.D.	#
6)	d-BHC	6.581f	7.269	13333	5632	0.095	0.046	#
7)	Aldrin	0.000	7.622f	0	13554	N.D.	0.102	#
8)	Heptachlo...	7.449	8.013	8830530	11622	56.467	0.099	#
9)	trans-Chl...	7.562f	8.165	13667	6295322	0.087	52.199	#
10)	cis-Chlor...	7.634	0.000	22077	0	0.141	N.D.	#
11)	Endosulfa...	7.703f	8.329	13800910	8403	96.159	0.078	#
12)	4,4'-DDE	7.703	8.387	13800910	9813503	95.672	85.222	
13)	Dieldrin	7.912	8.539	18904	5446639	0.118	45.486	#
14)	Endrin	0.000	8.765	0	4591343	N.D.	53.110	#
15)	4,4'-DDD	8.127	8.805	11206934	6971355	92.310	73.876	
16)	Endosulfa...	8.238	8.914	21594	16123	0.178	0.176	
17)	4,4'-DDT	8.326	9.033	9095935	5249658	87.373	81.733	
18)	Endrin Al...	8.498f	9.119f	17951	7990	BelowCal	3407.109	
19)	Endosulfa...	0.000	9.340	0	3536	N.D.	0.042	#
20)	Methoxychlor	8.668	0.000	6624	0	0.200	N.D.	#
21)	Endrin Ke...	9.031	9.741	12701	9652	0.088	0.101	
23)	Hexachlor...	3.288f	3.701	11808	11779	2108.634	838.006	#
24)	Hexachlor...	5.889	6.507	40653	31683	0.102	0.047	#
25)	Oxychlordane	7.352f	7.960	9389	9488	BelowCal	3277.641	
26)	2,4'-DDE	7.449	8.165	8830530	6295322	94.930	84.462	
27)	trans-Non...	7.634	0.000	22077	0	BelowCal	N.D.	
28)	2,4'-DDD	7.825	8.539	8060827	5446639	98.031	83.714	
29)	2,4'-DDT	8.009	8.765	7848998	4591343	104.265	85.596	
30)	cis-Nonac...	8.127	8.805	11206934	6971355	72.176	61.156	
31)	Mirex	8.777	9.741	22830	9652	7125.653	3567.386	#
32)	Chlordane...	7.703	8.329	13800910	8403	781.900	0.581	#
33)	Chlordane...	7.825	0.000	8060827	0	388.998	N.D.	#
34)	Chlordane...	0.000	9.119	0	7990	N.D.	BelowCal	
35)	Chlordane...	3.980	0.000	9716	0	NoCal	N.D.	
36)	Toxaphene...	7.825	8.716f	8060827	6886	9683.661	6.149	#
37)	Toxaphene...	8.127f	9.033	11206934	5249658	7437.398	3848.540	#
38)	Toxaphene...	8.430	9.033f	116872	5249658	37.575	2418.812	#
39)	Toxaphene...	8.668	9.119f	6624	7990	BelowCal	BelowCal	
40)	Toxaphene...	8.930f	9.315	3683	4916	1.564	BelowCal	#
41)	Toxaphene...	8.959	9.741f	43353	9652	14.292	4.769	#
42)	Toxaphene...	3.980	0.000	9716	0	NoCal	N.D.	

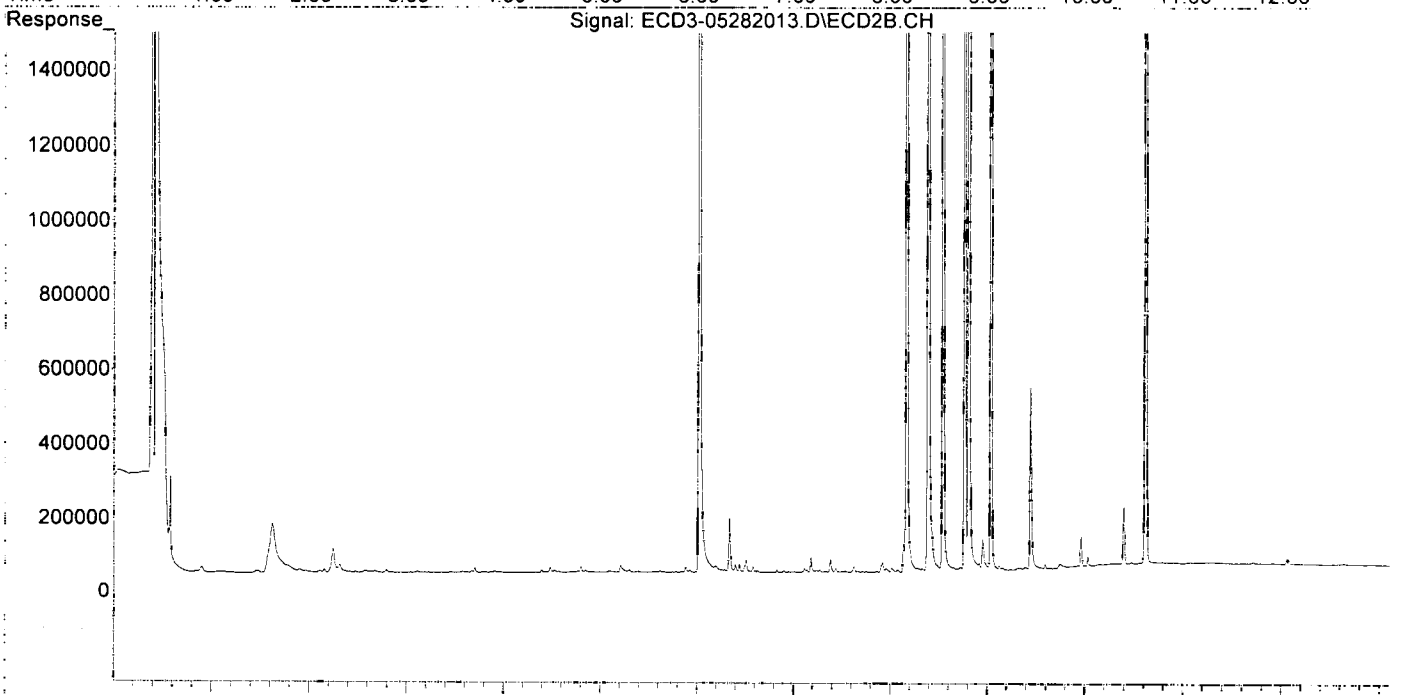
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 16:33
Operator : MJB
Sample : 0050653-BSD1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:46 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 16:50
Operator : MJB
Sample : A0E0347-01
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 15:34:46 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 6/1/20

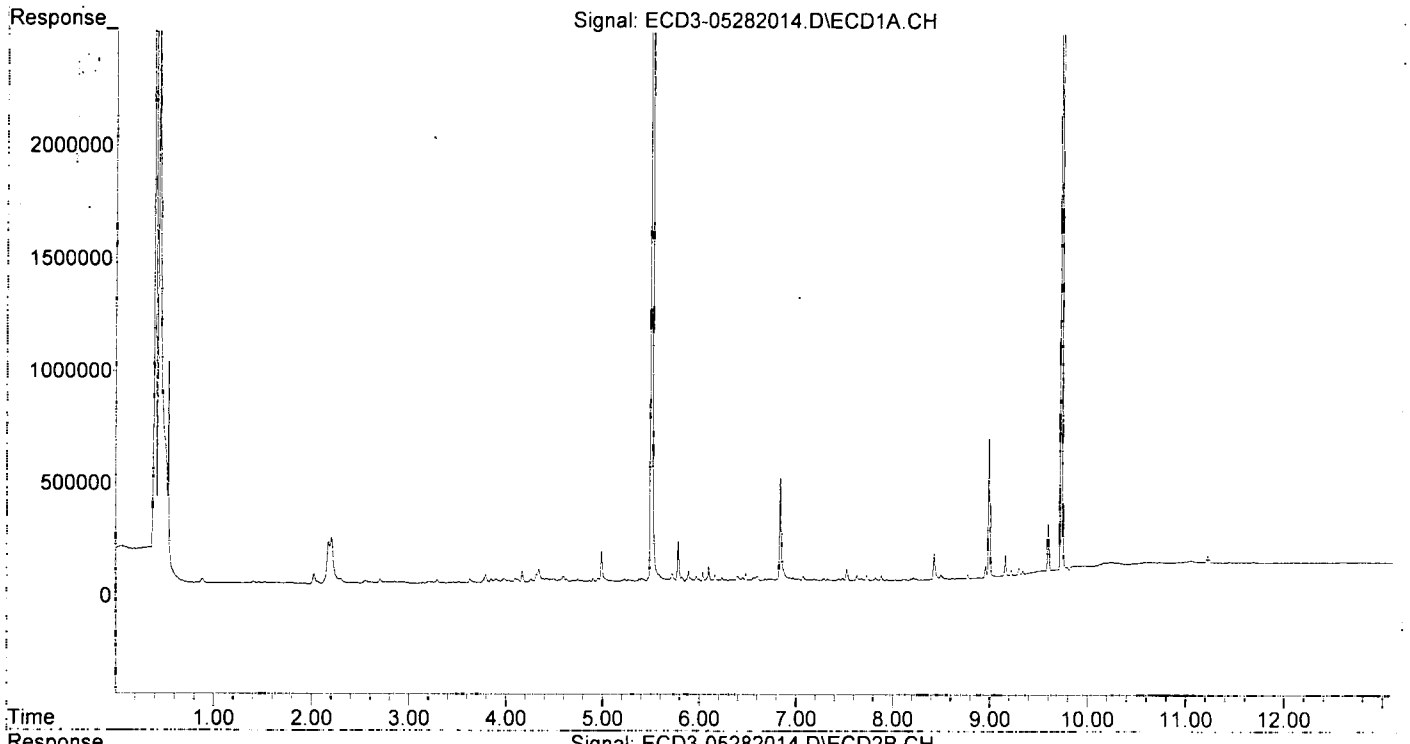
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.505	6.021	8930218	6026676	60.296	54.383	
22)	S DCBP (S)	9.733	10.616	5651036	3194847	51.322	48.117	
	Target Compounds							
2)	a-BHC	6.038	0.000	38092	0	0.188	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.396	0.000	20908	0	0.306	N.D.	#
5)	Heptachlor	6.720	7.347f	10141	3761	0.062	0.033	#
6)	d-BHC	6.568	7.240f	13083	6506	0.093	0.053	#
7)	Aldrin	6.974	7.604	12704	37737	0.076	0.284	#
8)	Heptachlo...	7.444	8.042	6308	10743	0.040	0.091	#
9)	trans-Chl...	7.525	8.197f	50572	8181	0.321	0.068	#
10)	cis-Chlor...	7.633	0.000	19680	0	0.125	N.D.	#
11)	Endosulfa...	7.736	0.000	20866	0	0.145	N.D.	#
12)	4,4'-DDE	7.682	8.401	8628	14903	0.060	0.129	#
13)	Dieldrin	7.886f	0.000	21262	0	0.132	N.D.	#
14)	Endrin	0.000	0.000	0	0	N.D.	N.D.	
15)	4,4'-DDD	8.123	0.000	5093	0	0.042	N.D.	#
16)	Endosulfa...	8.217	8.872f	8325	6111	0.069	0.067	
17)	4,4'-DDT	0.000	9.019	0	6730	N.D.	0.194m	#
18)	Endrin Al...	8.499f	9.121f	19830	10590	BelowCal	3407.076	
19)	Endosulfa...	0.000	9.316	0	3889	N.D.	0.046	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.995f	9.734	616696	10518	4.281	0.110	#
23)	Hexachlor...	3.290	3.702	13575	13733	2108.624	837.994	#
24)	Hexachlor...	5.890	6.507	44649	39106	0.132	0.115	
25)	Oxychlordane	0.000	8.012f	0	5784	N.D.	3277.679	#
26)	2,4'-DDE	7.444	0.000	6308	0	BelowCal	N.D.	d
27)	trans-Non...	7.633	0.000	19680	0	BelowCal	N.D.	
28)	2,4'-DDD	7.824	0.000	13087	0	BelowCal	N.D.	
29)	2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
30)	cis-Nonac...	8.123	0.000	5093	0	BelowCal	N.D.	
31)	Mirex	8.776	9.734	16486	10518	7125.717	3567.374	#
32)	Chlordane...	7.736	0.000	20866	0	1.182	N.D.	#
33)	Chlordane...	7.824	0.000	13087	0	0.632	N.D.	#
34)	Chlordane...	0.000	9.121	0	10590	N.D.	BelowCal	
35)	Chlordane...	3.981	0.000	12397	0	NoCal	N.D.	
36)	Toxaphene...	7.824	0.000	13087	0	15.722	N.D.	#
37)	Toxaphene...	8.123f	9.056	5093	3948	3.380	2.894	
38)	Toxaphene...	8.430	9.056	117110	3948	37.652	1.819	#
39)	Toxaphene...	0.000	9.121	0	10590	N.D.	BelowCal	
40)	Toxaphene...	0.000	9.316	0	3889	N.D.	BelowCal	
41)	Toxaphene...	8.959	9.734f	50632	10518	16.691	5.197	#
42)	Toxaphene...	3.981	0.000	12397	0	NoCal	N.D.	

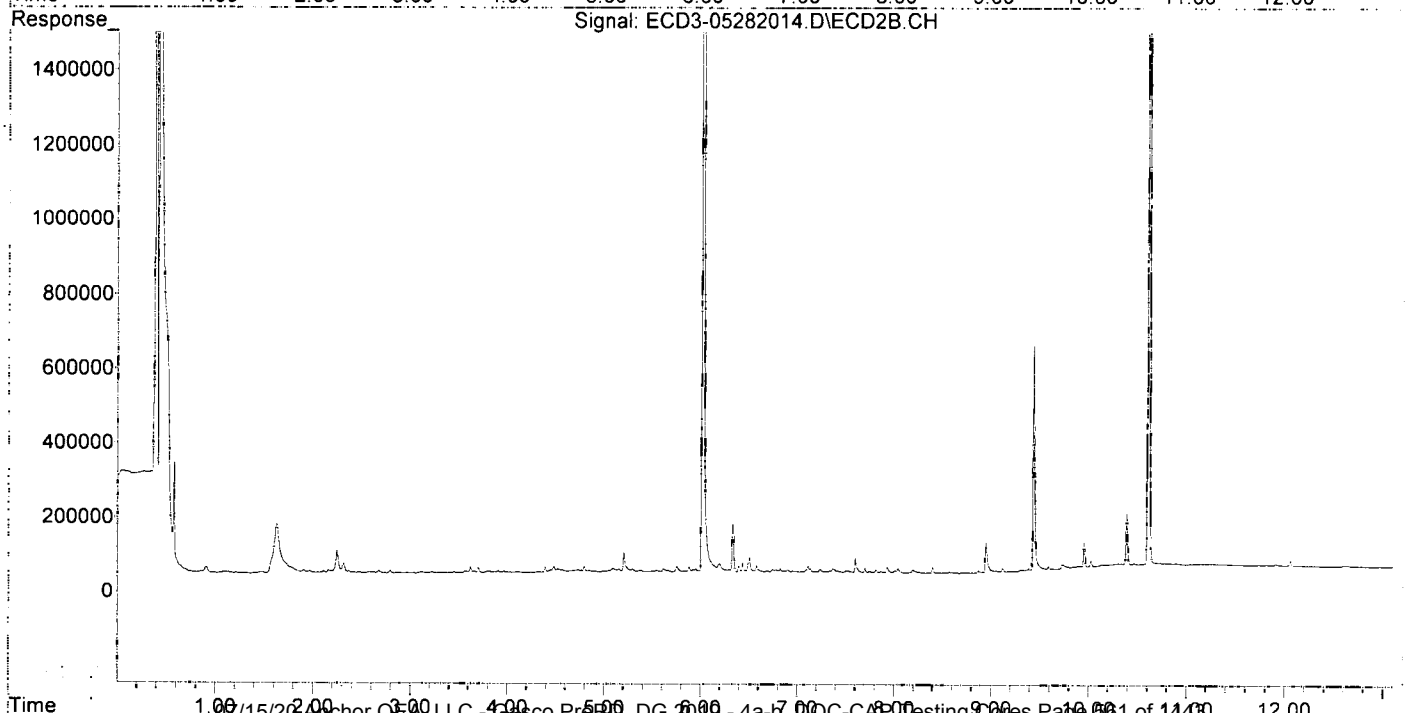
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 16:50
Operator : MJB
Sample : A0E0347-01
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 15:34:46 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

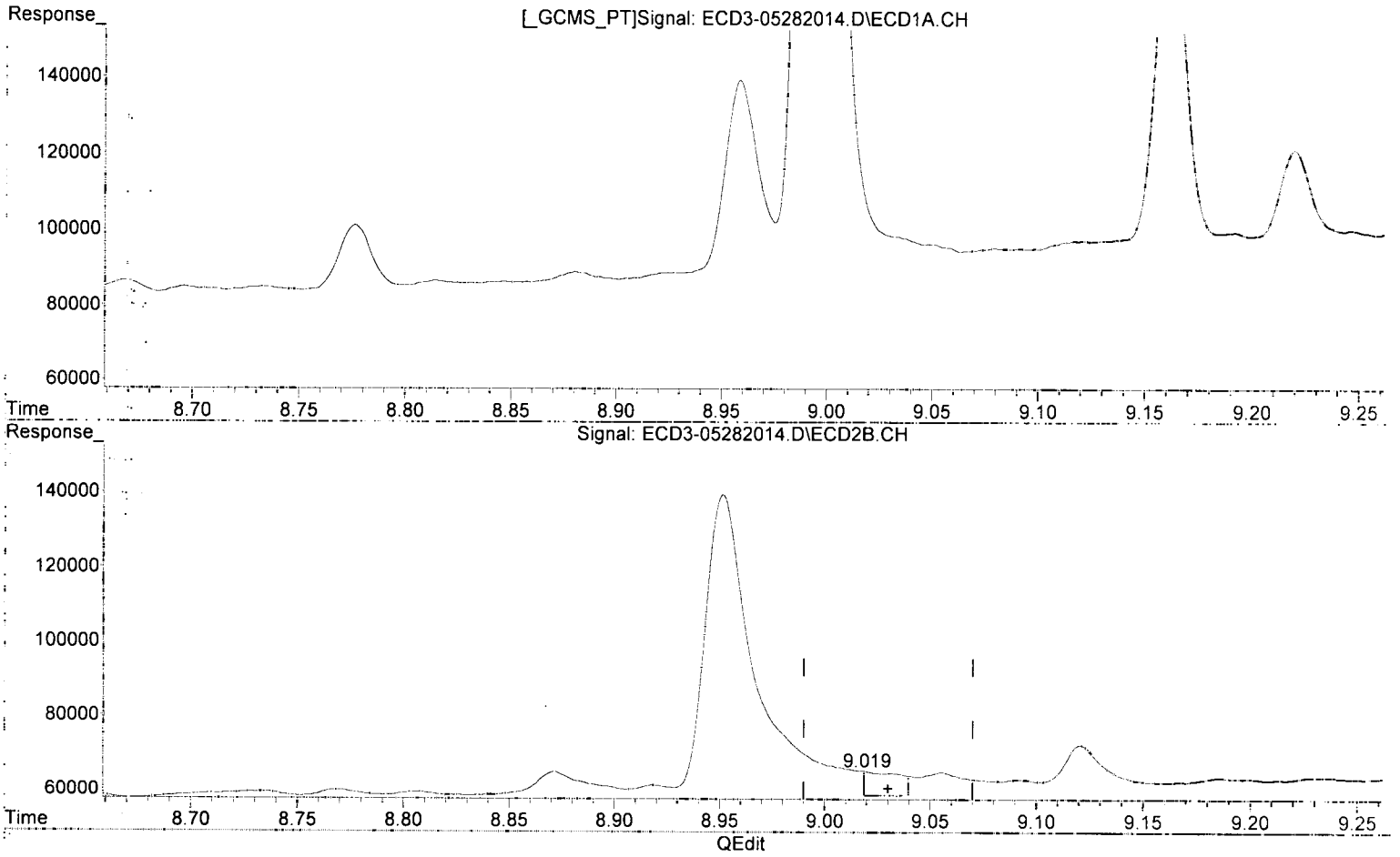




Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 16:50
Operator : MJB
Sample : A0E0347-01
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:50 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

0.000min 0.000 ng/mL

response 0

MJB 6/1/20

(17) 4,4'-DDT #2

9.019min 0.194 ng/mL m

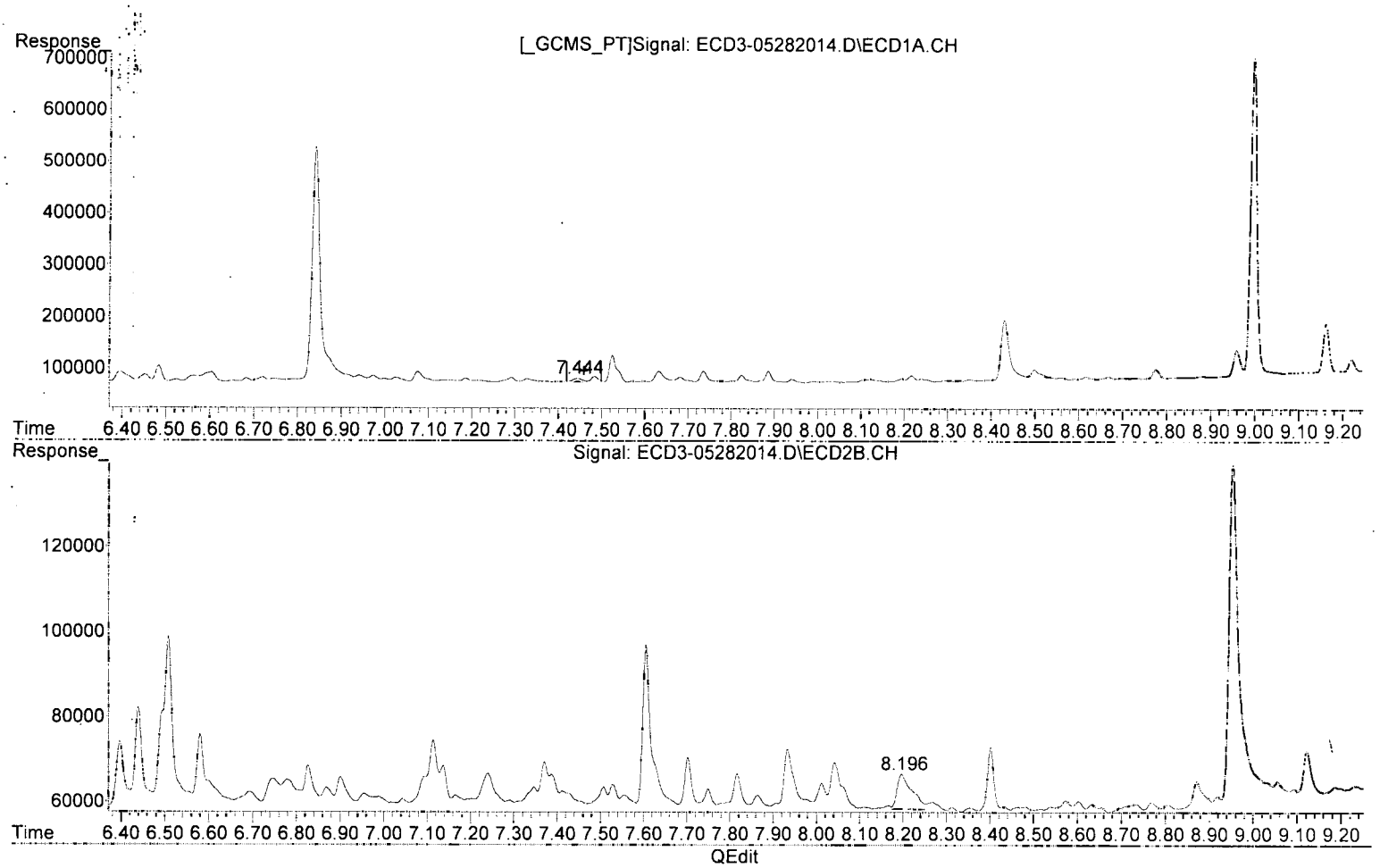
response 6730

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 16:50
Operator : MJB
Sample : A0E0347-01
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:50 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.444min -0.113 ng/mL

response 6308

MJB 6/1/20

(26) 2,4'-DDE #2

8.197min 2144.877 ng/mL @DCI

response 8181

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 16:50
Operator : MJB
Sample : A0E0347-01
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:50 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJ MJB 6/11/20

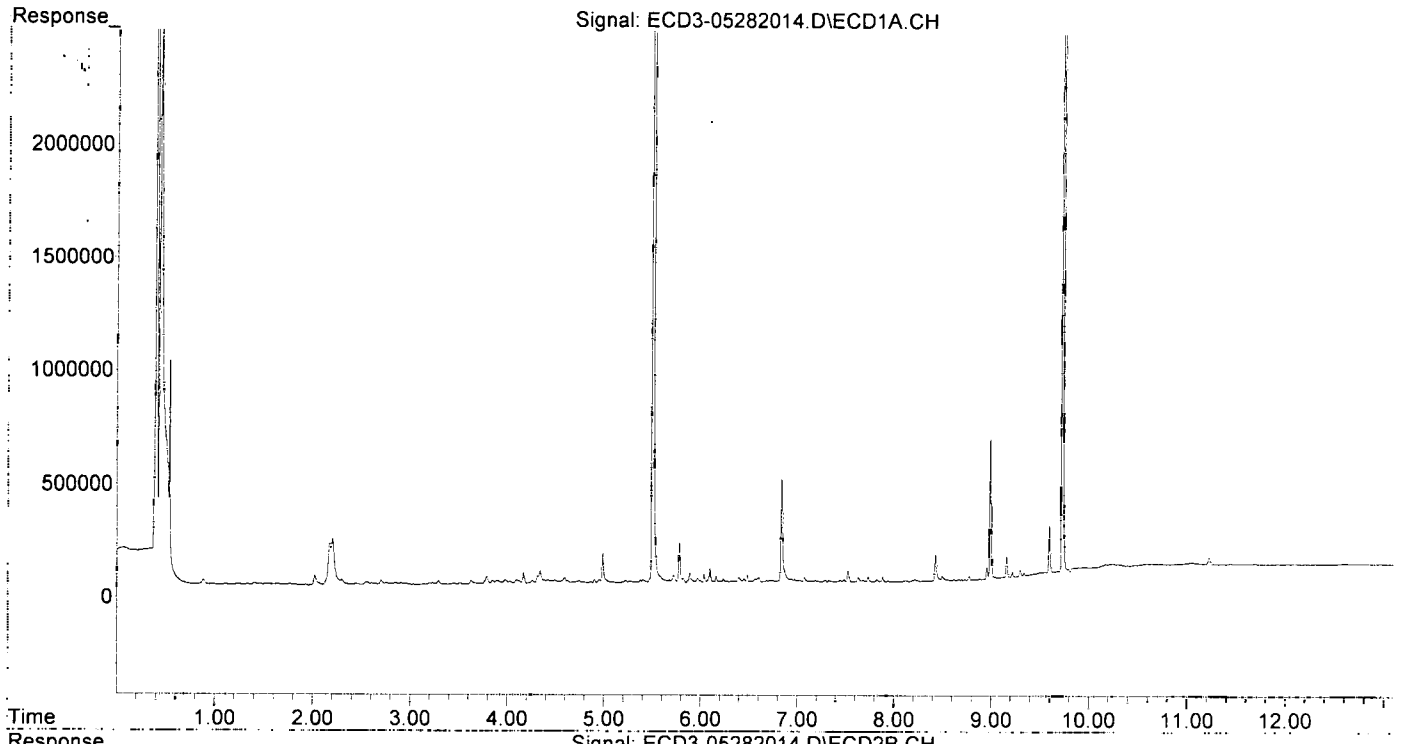
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.505	6.021	8930218	6026676	60.296	54.383	
22)	S DCBP (S)	9.733	10.616	5651036	3194847	51.322	48.117	
	Target Compounds							
2)	a-BHC	6.038	0.000	38092	0	0.188	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.396	0.000	20908	0	0.306	N.D.	#
5)	Heptachlor	6.720	7.347f	10141	3761	0.062	0.033	#
6)	d-BHC	6.568	7.240f	13083	6506	0.093	0.053	#
7)	Aldrin	6.974	7.604	12704	37737	0.076	0.284	#
8)	Heptachlo...	7.444	8.042	6308	10743	0.040	0.091	#
9)	trans-Chl...	7.525	8.197f	50572	8181	0.321	0.068	#
10)	cis-Chlor...	7.633	0.000	19680	0	0.125	N.D.	#
11)	Endosulfa...	7.736	0.000	20866	0	0.145	N.D.	#
12)	4,4'-DDE	7.682	8.401	8628	14903	0.060	0.129	#
13)	Dieldrin	7.886f	0.000	21262	0	0.132	N.D.	#
14)	Endrin	0.000	0.000	0	0	N.D.	N.D.	
15)	4,4'-DDD	8.123	0.000	5093	0	0.042	N.D.	#
16)	Endosulfa...	8.217	8.872f	8325	6111	0.069	0.067	
17)	4,4'-DDT	0.000	9.056f	0	3948	N.D.	0.143	#
18)	Endrin Al...	8.499f	9.121f	19830	10590	BelowCal	3407.076	
19)	Endosulfa...	0.000	9.316	0	3889	N.D.	0.046	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.995f	9.734	616696	10518	4.281	0.110	#
23)	Hexachlor...	3.290	3.702	13575	13733	2108.624	837.994	#
24)	Hexachlor...	5.890	6.507	44649	39106	0.132	0.115	
25)	Oxychlordane	0.000	8.012f	0	5784	N.D.	3277.679	#
26)	2,4'-DDE	7.444	8.197	6308	8181	BelowCal	2144.877	
27)	trans-Non...	7.633	0.000	19680	0	BelowCal	N.D.	
28)	2,4'-DDD	7.824	0.000	13087	0	BelowCal	N.D.	
29)	2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
30)	cis-Nonac...	8.123	0.000	5093	0	BelowCal	N.D.	
31)	Mirex	8.776	9.734	16486	10518	7125.717	3567.374	#
32)	Chlordane...	7.736	0.000	20866	0	1.182	N.D.	#
33)	Chlordane...	7.824	0.000	13087	0	0.632	N.D.	#
34)	Chlordane...	0.000	9.121	0	10590	N.D.	BelowCal	
35)	Chlordane...	3.981	0.000	12397	0	NoCal	N.D.	
36)	Toxaphene...	7.824	0.000	13087	0	15.722	N.D.	#
37)	Toxaphene...	8.123f	9.056	5093	3948	3.380	2.894	
38)	Toxaphene...	8.430	9.056	117110	3948	37.652	1.819	#
39)	Toxaphene...	0.000	9.121	0	10590	N.D.	BelowCal	
40)	Toxaphene...	0.000	9.316	0	3889	N.D.	BelowCal	
41)	Toxaphene...	8.959	9.734f	50632	10518	16.691	5.197	#
42)	Toxaphene...	3.981	0.000	12397	0	NoCal	N.D.	

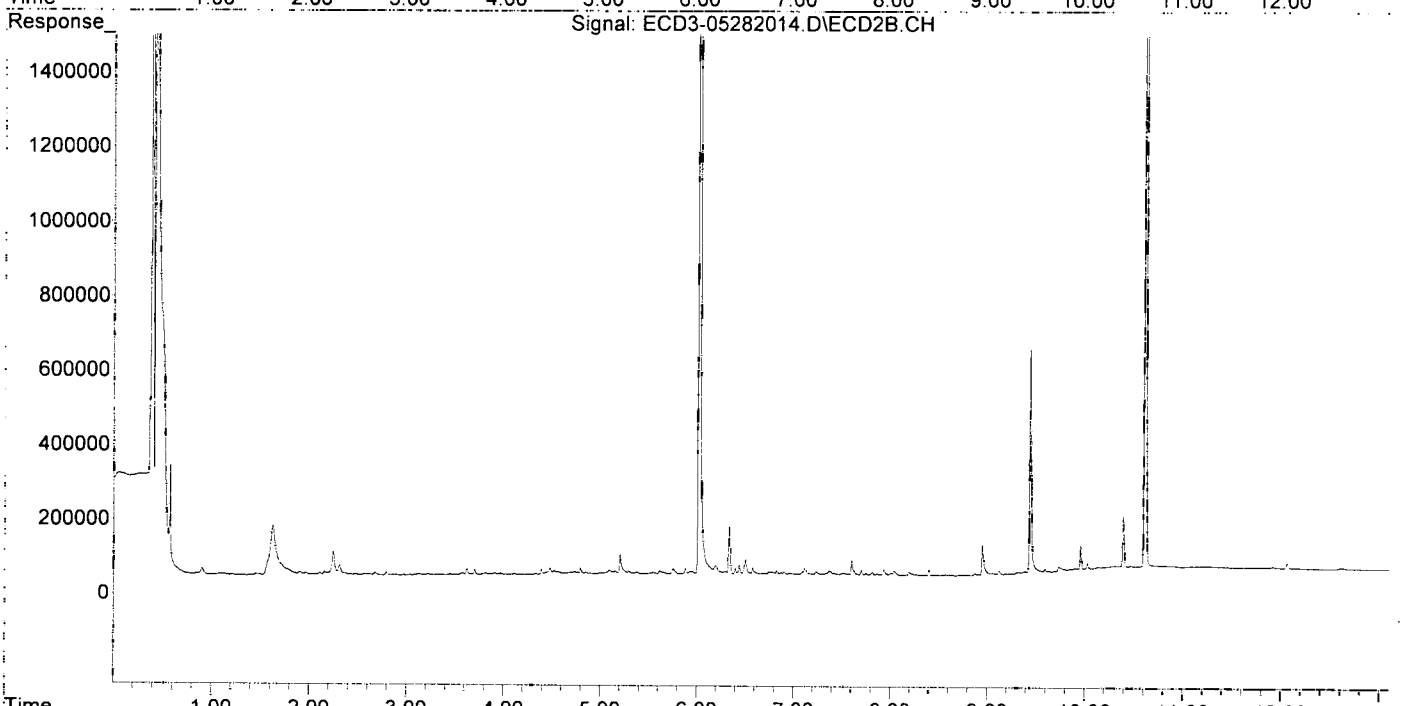
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 16:50
Operator : MJB
Sample : A0E0347-01
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:50 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:07
Operator : MJB
Sample : A0E0347-02
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 15:45:02 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

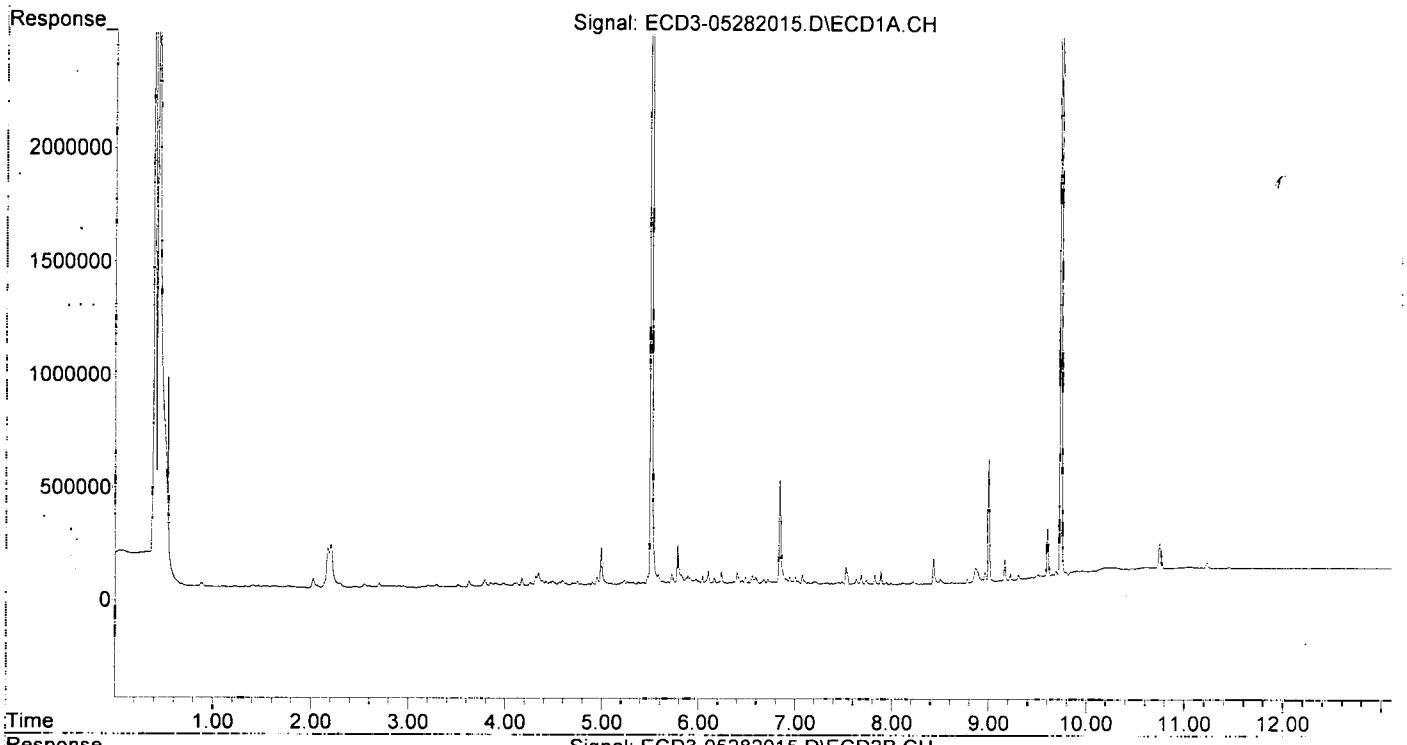
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.506	6.022	9301942	6252006	62.806	56.487	
22)	S DCBP (S)	9.734	10.616	6032274	3476558	54.794	52.484	
	Target Compounds							
2)	a-BHC	6.038	6.604f	39579	14818	0.196	0.094	#
3)	g-BHC	6.329	6.953	7053	9630	0.041	0.071	#
4)	b-BHC	6.397	7.003	50313	18565	0.737	0.302	#
5)	Heptachlor	6.744	7.332	9429	12129	0.058	0.107	#
6)	d-BHC	6.554	7.239f	35871	12499	0.256	0.102	#
7)	Aldrin	6.973	7.604	12555	63174	0.075	0.475	#
8)	Heptachlo...	7.453	8.040	9049	27474	0.058	0.233	#
9)	trans-Chl...	7.525	8.194f	77533	9287	0.493	0.077	#
10)	cis-Chlor...	7.631	0.000	23530	0	0.150	N.D.	#
11)	Endosulfa...	7.736	8.353f	18856	3319	0.131	0.031	#
12)	4,4'-DDE	7.683	8.401	41988	13131	0.291	0.114	#
13)	Dieldrin	7.887f	0.000	58033	0	0.361	N.D.	#
14)	Endrin	8.103f	0.000	5936	0	0.048	N.D.	#
15)	4,4'-DDD	8.127	0.000	4156	0	0.034	N.D.	#
16)	Endosulfa...	8.217	8.871f	10661	5382	0.088	0.059	
17)	4,4'-DDT	0.000	9.011	0	5636	N.D.	0.174m	#
18)	Endrin Al...	8.499f	9.121f	23570	13999	0.004	3407.034	#
19)	Endosulfa...	8.860f	9.317	64298	4529	0.534	0.054	#
20)	Methoxychlor	8.669	0.000	4054	0	0.137	N.D.	#
21)	Endrin Ke...	8.996f	9.712f	547745	29303	3.803	0.306	#
23)	Hexachlor...	3.289f	3.703	9752	9206	2108.646	838.021	#
24)	Hexachlor...	5.909	6.508	29426	44036	0.018	0.160	#
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.453	0.000	9049	0	BelowCal	N.D.	d
27)	trans-Non...	7.631	0.000	23530	0	BelowCal	N.D.	
28)	2,4'-DDD	7.824	0.000	40961	0	0.285	N.D.	#
29)	2,4'-DDT	7.996f	0.000	5500	0	0.073m	N.D.	#
30)	cis-Nonac...	8.127	0.000	4156	0	BelowCal	N.D.	
31)	Mirex	8.777	9.783f	18143	9391	7125.701	3567.390	#
32)	Chlordane...	7.736	8.353f	18856	3319	1.068	0.229	#
33)	Chlordane...	7.824	8.401f	40961	13131	1.977	1.062	#
34)	Chlordane...	0.000	9.121	0	13999	N.D.	BelowCal	
35)	Chlordane...	3.982	0.000	11836	0	NoCal	N.D.	
36)	Toxaphene...	7.824	0.000	40961	0	49.207	N.D.	#
37)	Toxaphene...	8.103	9.055	5936	3676	3.939	2.695	
38)	Toxaphene...	8.430	9.055	112212	3676	36.077	1.694	#
39)	Toxaphene...	8.669	9.121	4054	13999	BelowCal	BelowCal	
40)	Toxaphene...	8.860f	9.317	64298	4529	27.301	BelowCal	#
41)	Toxaphene...	8.959	9.712	44940	29303	14.815	14.478	
42)	Toxaphene...	3.982	0.000	11836	0	NoCal	N.D.	

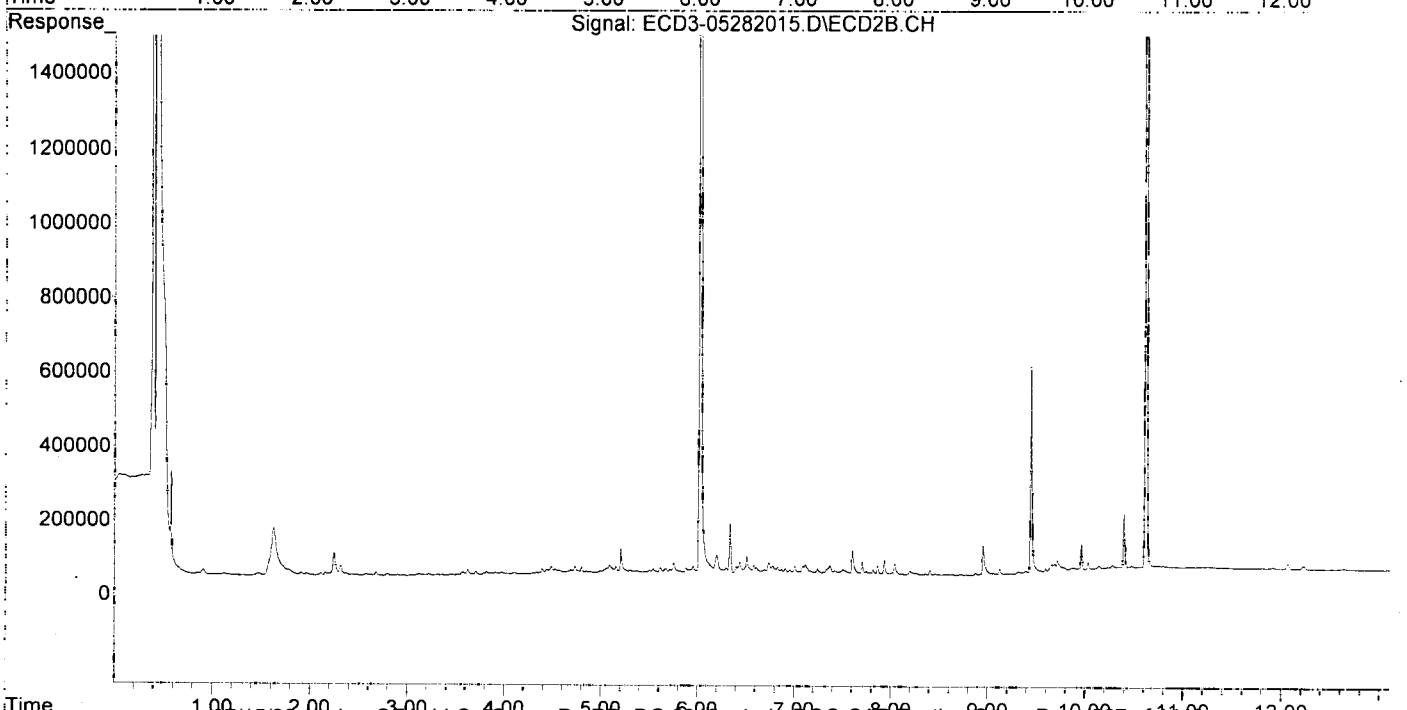
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:07
Operator : MJB
Sample : A0E0347-02
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 15:45:02 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

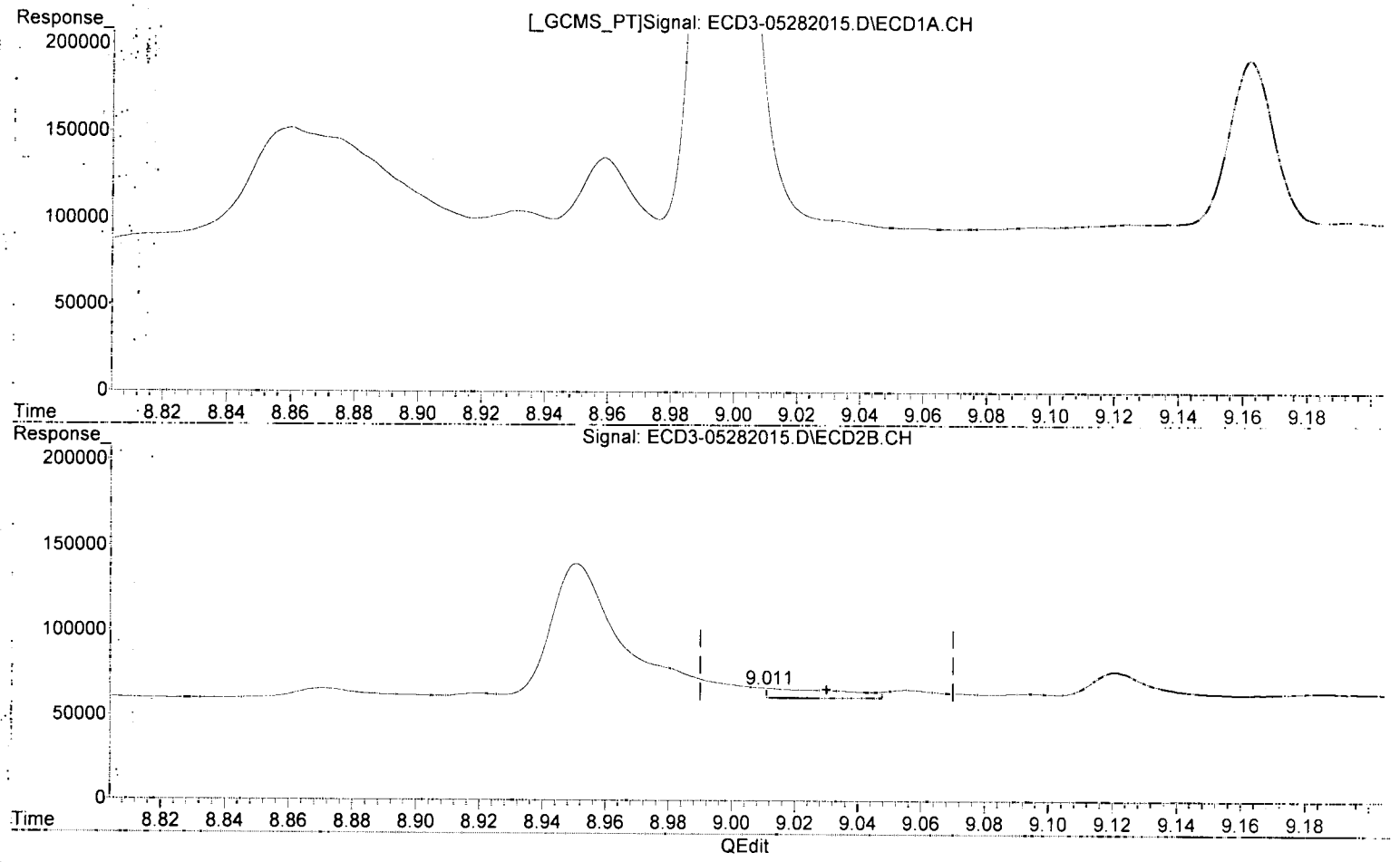




Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:07
Operator : MJB
Sample : A0E0347-02
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:54 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

0.000min 0.000 ng/mL

response 0

MJB 6/1/2.

(17) 4,4'-DDT #2

9.011min 0.174 ng/mL m

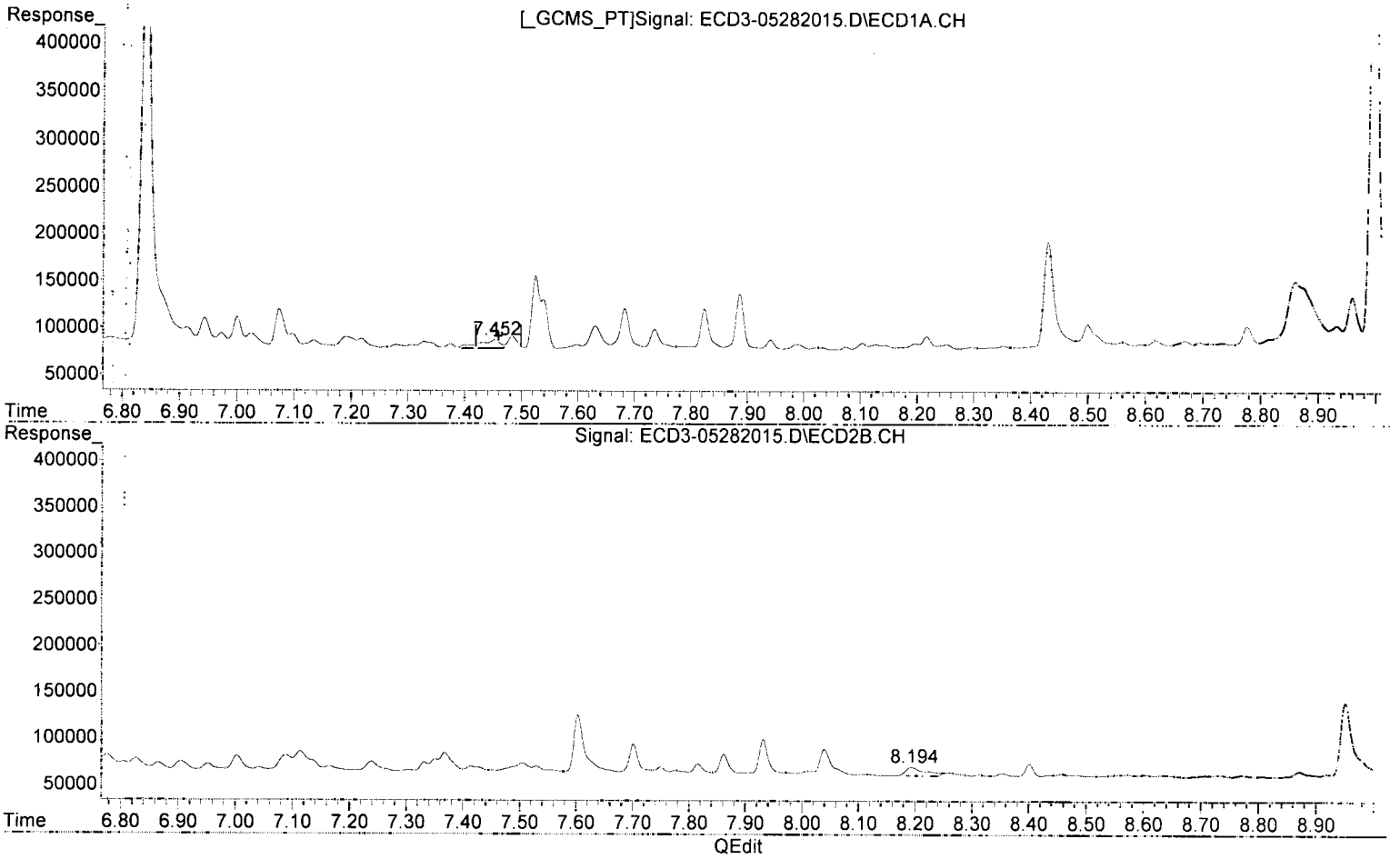
response 5636

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:07
Operator : MJB
Sample : A0E0347-02
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:54 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.453min -0.083 ng/mL

response 9049

MJB 4/1/12.

(26) 2,4'-DDE #2

8.194min 2144.863 ng/mL Q-DC

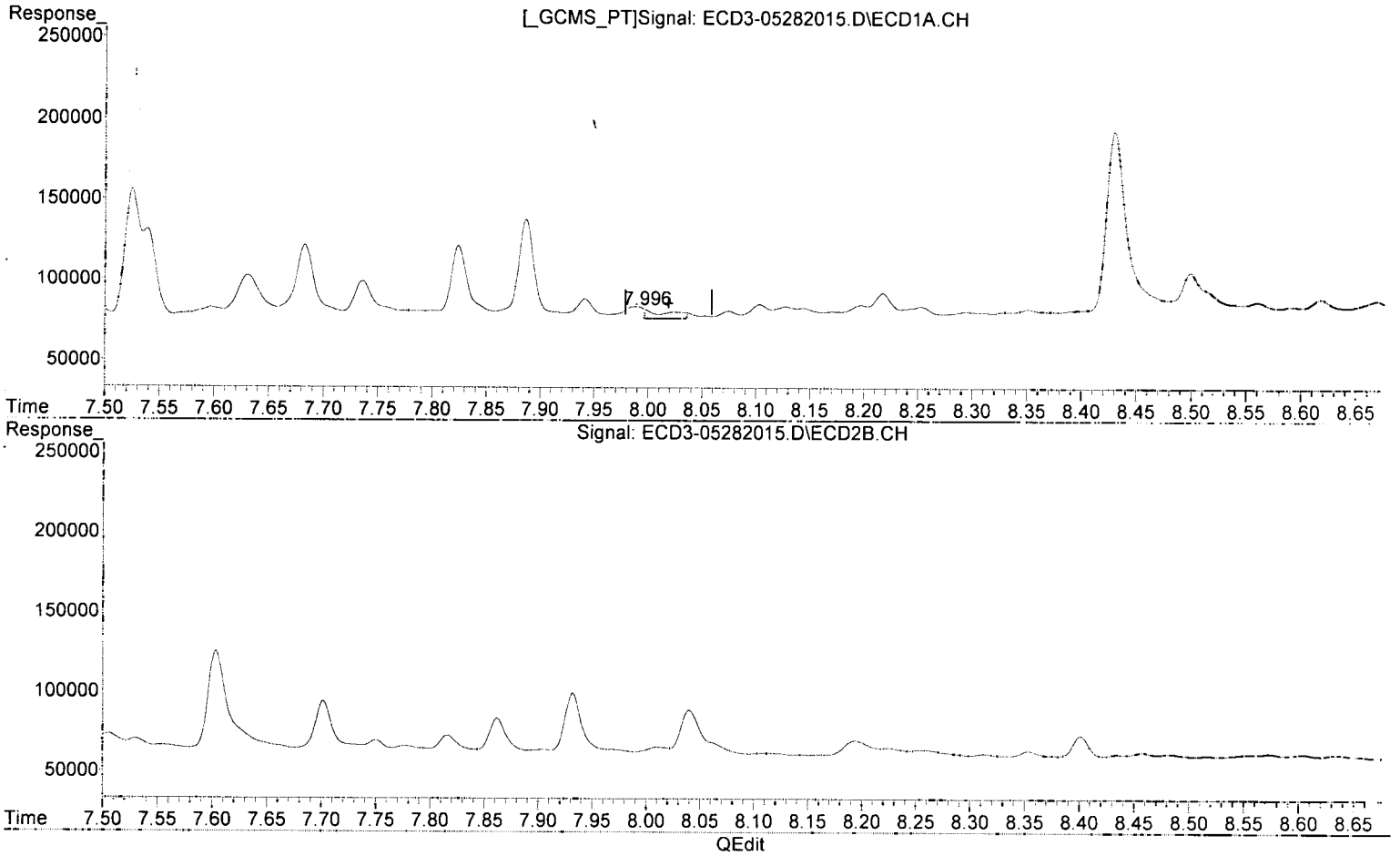
response 9287

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:07
Operator : MJB
Sample : A0E0347-02
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:54 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.996min 0.073 ng/mL m

MJB 4/1.12.

response 5500

(29) 2,4'-DDT #2

0.000min 0.000 ng/mL

response 0

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:07
Operator : MJB
Sample : A0E0347-02
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:54 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MI MJB 6/1/20

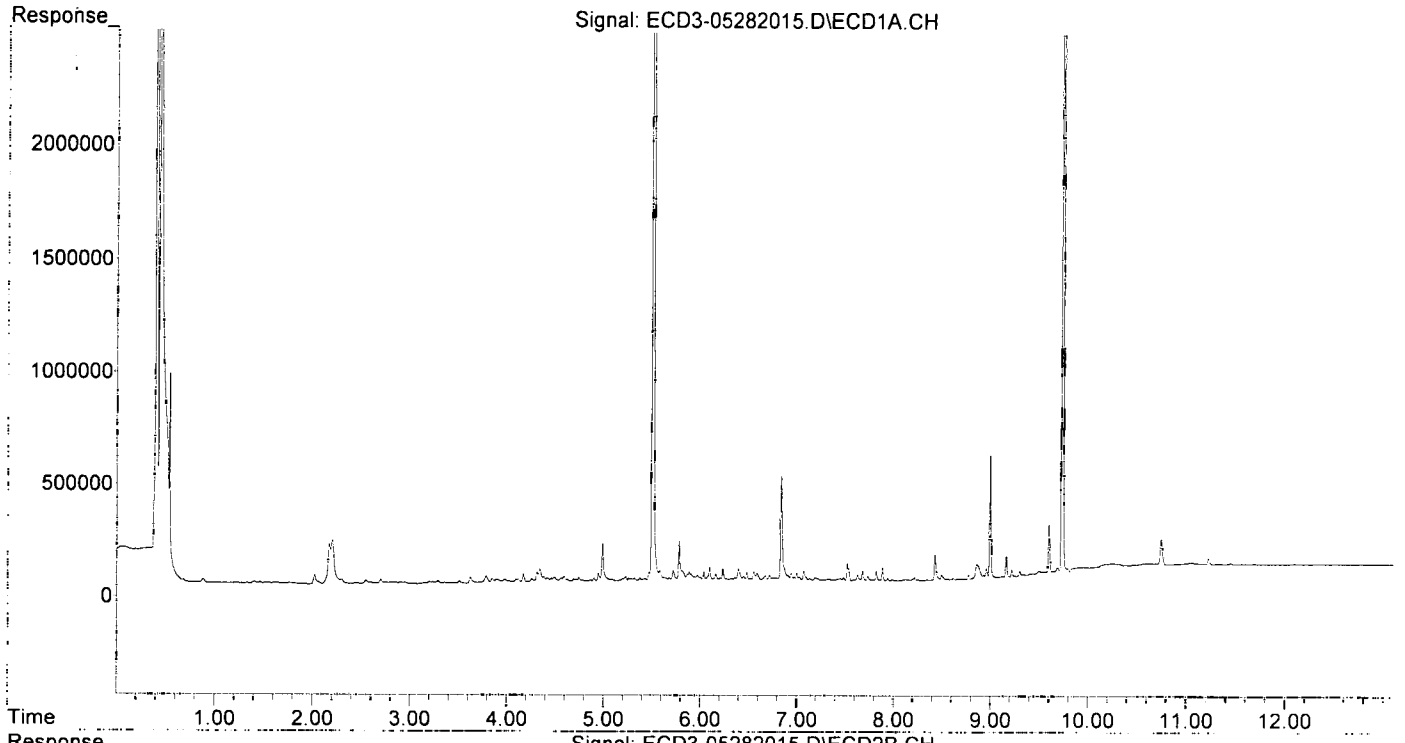
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.506	6.022	9301942	6252006	62.806	56.487	
22)	S	DCBP (S)	9.734	10.616	6032274	3476558	54.794	52.484	
		Target Compounds							
2)		a-BHC	6.038	6.604f	39579	14818	0.196	0.094	#
3)		g-BHC	6.329	6.953	7053	9630	0.041	0.071	#
4)		b-BHC	6.397	7.003	50313	18565	0.737	0.302	#
5)		Heptachlor	6.744	7.332	9429	12129	0.058	0.107	#
6)		d-BHC	6.554	7.239f	35871	12499	0.256	0.102	#
7)		Aldrin	6.973	7.604	12555	63174	0.075	0.475	#
8)		Heptachlo...	7.453	8.040	9049	27474	0.058	0.233	#
9)		trans-Chl...	7.525	8.194f	77533	9287	0.493	0.077	#
10)		cis-Chlor...	7.631	0.000	23530	0	0.150	N.D.	#
11)		Endosulfa...	7.736	8.353f	18856	3319	0.131	0.031	#
12)		4,4'-DDE	7.683	8.401	41988	13131	0.291	0.114	#
13)		Dieldrin	7.887f	0.000	58033	0	0.361	N.D.	#
14)		Endrin	8.103f	0.000	5936	0	0.048	N.D.	#
15)		4,4'-DDD	8.127	0.000	4156	0	0.034	N.D.	#
16)		Endosulfa...	8.217	8.871f	10661	5382	0.088	0.059	
17)		4,4'-DDT	0.000	9.055f	0	3676	N.D.	0.138	#
18)		Endrin Al...	8.499f	9.121f	23570	13999	0.004	3407.034	#
19)		Endosulfa...	8.860f	9.317	64298	4529	0.534	0.054	#
20)		Methoxychlor	8.669	0.000	4054	0	0.137	N.D.	#
21)		Endrin Ke...	8.996f	9.712f	547745	29303	3.803	0.306	#
23)		Hexachlor...	3.289f	3.703	9752	9206	2108.646	838.021	#
24)		Hexachlor...	5.909	6.508	29426	44036	0.018	0.160	#
25)		Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)		2,4'-DDE	7.453	8.194	9049	9287	BelowCal	2144.863	
27)		trans-Non...	7.631	0.000	23530	0	BelowCal	N.D.	
28)		2,4'-DDD	7.824	0.000	40961	0	0.285	N.D.	#
29)		2,4'-DDT	7.988f	0.000	4920	0	0.065	N.D.	#
30)		cis-Nonac...	8.127	0.000	4156	0	BelowCal	N.D.	
31)		Mirex	8.777	9.783f	18143	9391	7125.701	3567.390	#
32)		Chlordane...	7.736	8.353f	18856	3319	1.068	0.229	#
33)		Chlordane...	7.824	8.401f	40961	13131	1.977	1.062	#
34)		Chlordane...	0.000	9.121	0	13999	N.D.	BelowCal	
35)		Chlordane...	3.982	0.000	11836	0	NoCal	N.D.	
36)		Toxaphene...	7.824	0.000	40961	0	49.207	N.D.	#
37)		Toxaphene...	8.103	9.055	5936	3676	3.939	2.695	
38)		Toxaphene...	8.430	9.055	112212	3676	36.077	1.694	#
39)		Toxaphene...	8.669	9.121	4054	13999	BelowCal	BelowCal	
40)		Toxaphene...	8.860f	9.317	64298	4529	27.301	BelowCal	#
41)		Toxaphene...	8.959	9.712	44940	29303	14.815	14.478	
42)		Toxaphene...	3.982	0.000	11836	0	NoCal	N.D.	

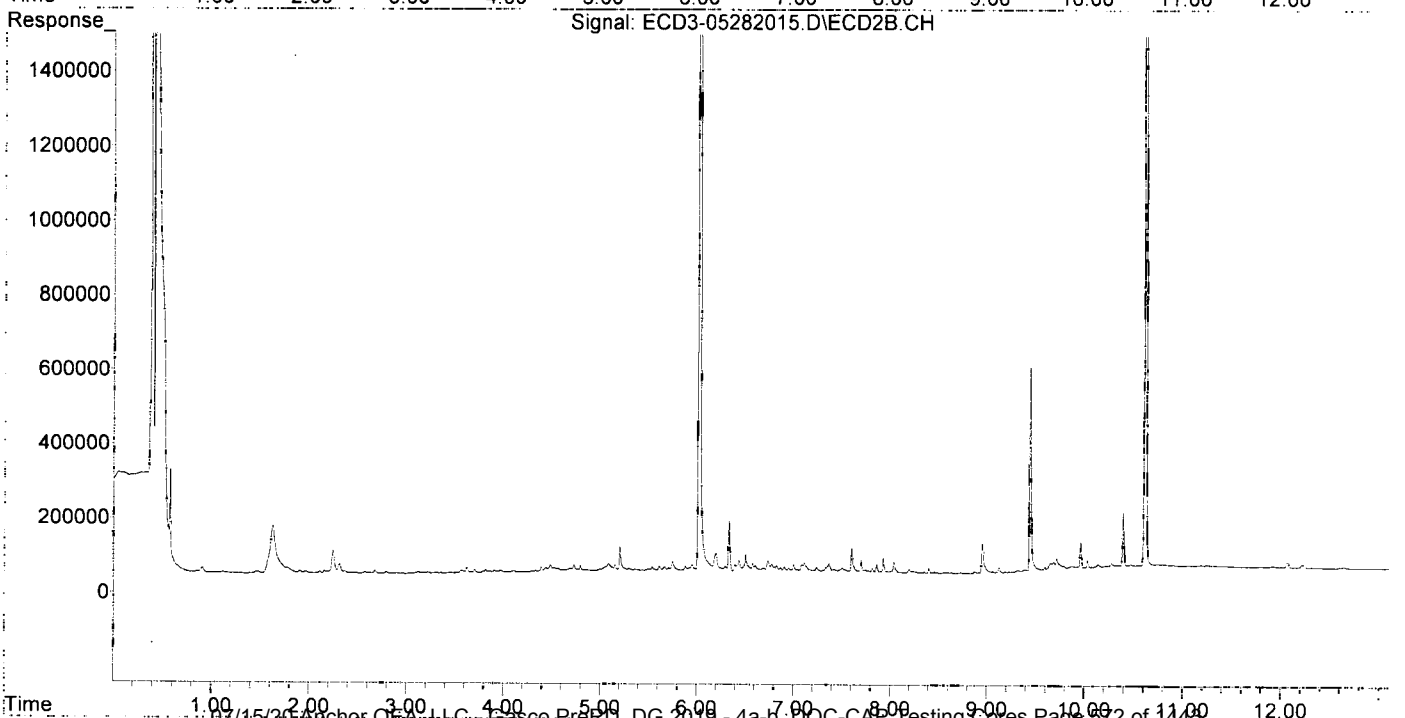
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:07
Operator : MJB
Sample : A0E0347-02
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:54 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:24
Operator : MJB
Sample : 0050644-BS2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 6/1/20

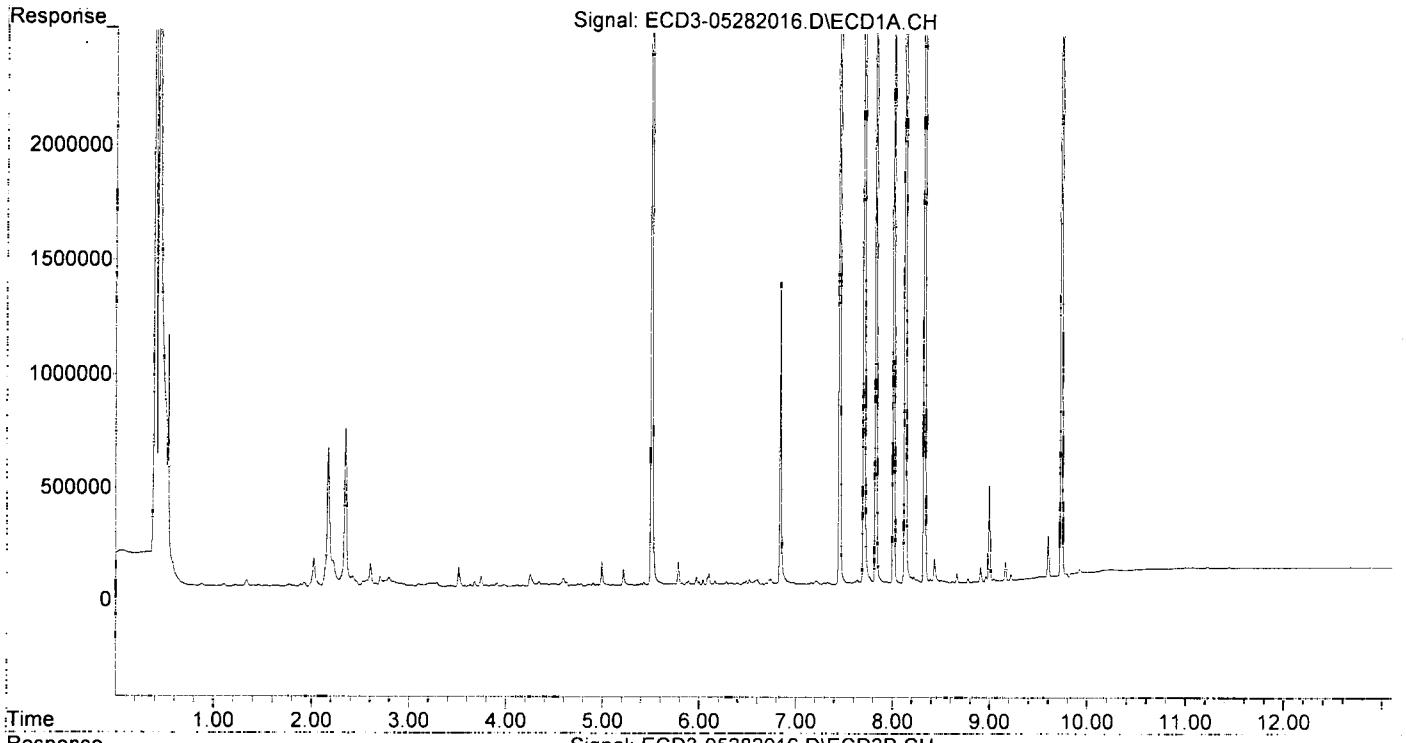
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.505	6.022	5276320	3584180	35.625	31.893	
22)	S	DCBP (S)	9.734	10.615	5240092	2971972	47.580	44.674	
		Target Compounds							
2)		a-BHC	6.038	0.000	25195	0	0.125	N.D.	#
3)		g-BHC	6.336	0.000	8415	0	0.049	N.D.	#
4)		b-BHC	6.391	0.000	10518	0	0.154	N.D.	#
5)		Heptachlor	6.742	0.000	23880	0	0.146	N.D.	#
6)		d-BHC	6.517f	7.250	23918	15231	0.170	0.125	
7)		Aldrin	0.000	7.624f	0	7421	N.D.	0.056	#
8)		Heptachlo...	7.450	8.014	4344977	8442	27.784	0.072	#
9)		trans-Chl...	7.562f	8.165	8084	3288462	0.051	27.267	#
10)		cis-Chlor...	7.635	8.309f	20117	9645	0.128	0.083	
11)		Endosulfa...	7.704f	8.309	7419422	9645	51.695	0.090	#
12)		4,4'-DDE	7.704	8.388	7419422	5097304	51.434	44.266	
13)		Dieldrin	0.000	8.541	0	3092268	N.D.	25.824	#
14)		Endrin	0.000	8.766	0	2711693	N.D.	31.367	#
15)		4,4'-DDD	8.128	8.806	6377420	4199521	52.530	44.502	
16)		Endosulfa...	8.218	0.000	29133	0	0.241	N.D.	#
17)		4,4'-DDT	8.327	9.034	5436966	3115957	55.833	51.417	
18)		Endrin Al...	8.501f	9.122f	13457	5659	BelowCal	3407.138	
19)		Endosulfa...	0.000	9.315f	0	4474	N.D.	0.053	#
20)		Methoxychlor	8.664	9.515	42433	25773	1.072	1.043	
21)		Endrin Ke...	9.044	9.748	11094	7778	0.077	0.081	
23)		Hexachlor...	3.287f	3.701	16786	11934	2108.605	838.005	#
24)		Hexachlor...	5.890	6.508	17066	22372	BelowCal	2197.423	
25)		Oxychlordane	0.000	7.962	0	6489	N.D.	3277.672	#
26)		2,4'-DDE	7.450	8.165	4344977	3288462	47.299	43.140	
27)		trans-Non...	7.635	0.000	20117	0	BelowCal	N.D.	
28)		2,4'-DDD	7.826	8.541	4611948	3092268	56.196	46.839	
29)		2,4'-DDT	8.010	8.766	4494340	2711693	59.702	50.554	
30)		cis-Nonac...	8.128	8.806	6377420	4199521	41.196	36.382	
31)		Mirex	8.778	9.748	16748	7778	7125.715	3567.414	#
32)		Chlordane...	7.704	8.309f	7419422	9645	420.353	0.667	#
33)		Chlordane...	7.826	0.000	4611948	0	222.562	N.D.	#
34)		Chlordane...	8.390f	9.122	18850	5659	3.543	BelowCal	#
35)		Chlordane...	3.983	3.975f	6524	6647	NoCal	NoCal	
36)		Toxaphene...	7.826f	8.722f	4611948	4504	5540.442	4.022	#
37)		Toxaphene...	8.128f	9.034	6377420	3115957	4232.327	2284.318	#
38)		Toxaphene...	8.432	9.034f	109130	3115957	35.086	1435.696	#
39)		Toxaphene...	8.664	9.122	42433	5659	9.124	BelowCal	#
40)		Toxaphene...	8.908	9.315	65953	4474	28.004	BelowCal	#
41)		Toxaphene...	8.962	9.708	23749	4422	7.829	2.185	#
42)		Toxaphene...	3.983	3.975f	6524	6647	NoCal	NoCal	

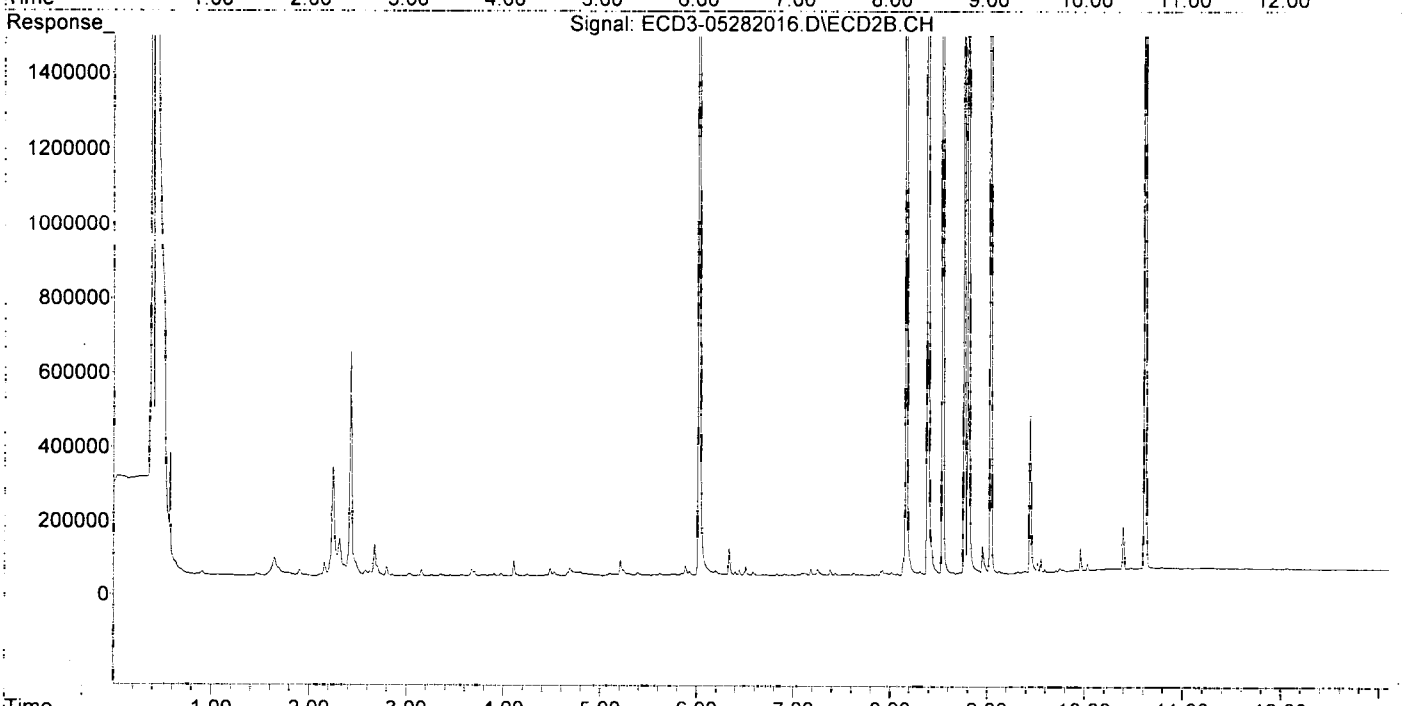
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:24
Operator : MJB
Sample : 0050644-BS2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:12:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:59
Operator : MJB
Sample : 0050704-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 15:53:03 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

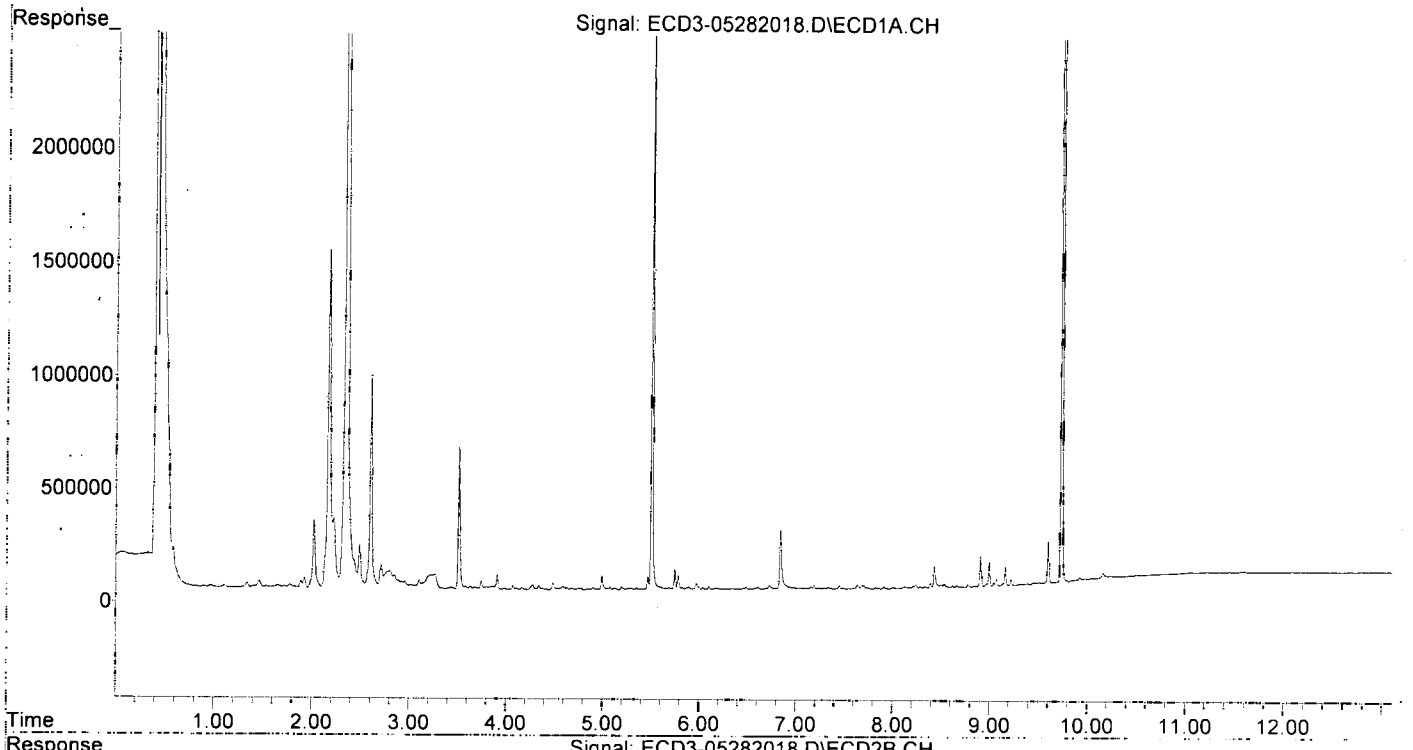
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.506	6.023	2828042	1857963	19.095	16.328	sob
22)	S DCBP (S)	9.734	10.616	4859658	2851230	44.114	42.813	
	Target Compounds							
2)	a-BHC	6.040	0.000	7974	0	0.039	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.727	0.000	15527	0	0.095	N.D.	#
6)	d-BHC	0.000	7.252	0	11061	N.D.	0.090	#
7)	Aldrin	6.980	0.000	4312	0	0.026	N.D.	#
8)	Heptachlo...	7.452	8.065f	13269	4488	0.085	0.038	#
9)	trans-Chl...	0.000	8.167	0	8880	N.D.	0.074	#
10)	cis-Chlor...	7.637	0.000	14967	0	0.095	N.D.	#
11)	Endosulfa...	7.705f	0.000	12290	0	0.086	N.D.	#
12)	4,4'-DDE	7.705	8.390	12290	9363	0.085	0.081	
13)	Dieldrin	7.909	8.541	8171	3548	0.051	0.030	#
14)	Endrin	0.000	8.767	0	4869	N.D.	0.056	#
15)	4,4'-DDD	8.127	8.807	7867	5710	0.065	0.061m	
16)	Endosulfa...	8.242	8.897	14984	4812	0.124	0.052	#
17)	4,4'-DDT	0.000	9.033	0	12158	N.D.	0.293	#
18)	Endrin Al...	8.536	9.125f	16821	4655	BelowCal	3407.150	
19)	Endosulfa...	8.838	9.317	4793	1808	0.040	0.021	#
20)	Methoxychlor	8.665	9.514	8200	5486	0.238	0.257	
21)	Endrin Ke...	9.045	9.748	16355	16974	0.114	0.177	#
23)	Hexachlor...	0.000	3.682f	0	76355	N.D.	0.258	#
24)	Hexachlor...	5.890	6.511	8453	5987	BelowCal	2197.574	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.452	0.000	13269	0	BelowCal	N.D.	d
27)	trans-Non...	7.637	0.000	14967	0	BelowCal	N.D.	
28)	2,4'-DDD	7.827	0.000	4639	0	BelowCal	N.D.	d
29)	2,4'-DDT	8.011	8.767	6857	4869	0.091	0.091	
30)	cis-Nonac...	8.127	0.000	7867	0	BelowCal	N.D.	
31)	Mirex	8.779	9.748	11196	16974	7125.771	3567.278	#
32)	Chlordane...	7.705	0.000	12290	0	0.696	N.D.	#
33)	Chlordane...	7.827	0.000	4639	0	0.224	N.D.	#
34)	Chlordane...	8.392f	9.125	21621	4655	4.064	BelowCal	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.827f	0.000	4639	0	5.573	N.D.	#
37)	Toxaphene...	8.127f	9.033	7867	12158	5.221	8.913	#
38)	Toxaphene...	8.433	9.060	94714	21004	30.451	9.678	#
39)	Toxaphene...	8.665	9.125	8200	4655	BelowCal	BelowCal	
40)	Toxaphene...	8.908	9.317	136798	1808	58.085	BelowCal	#
41)	Toxaphene...	8.971	9.708	12519	8790	4.127	4.343	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

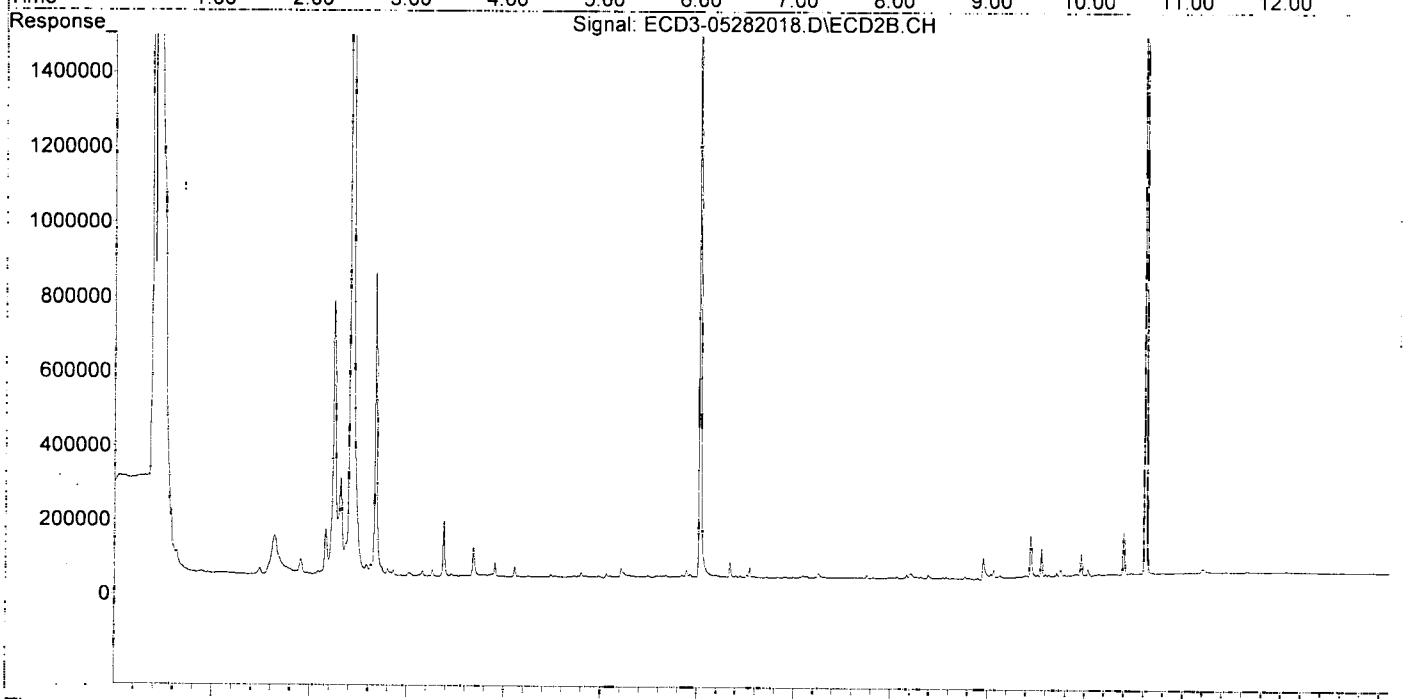
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:59
Operator : MJB
Sample : 0050704-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 15:53:03 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

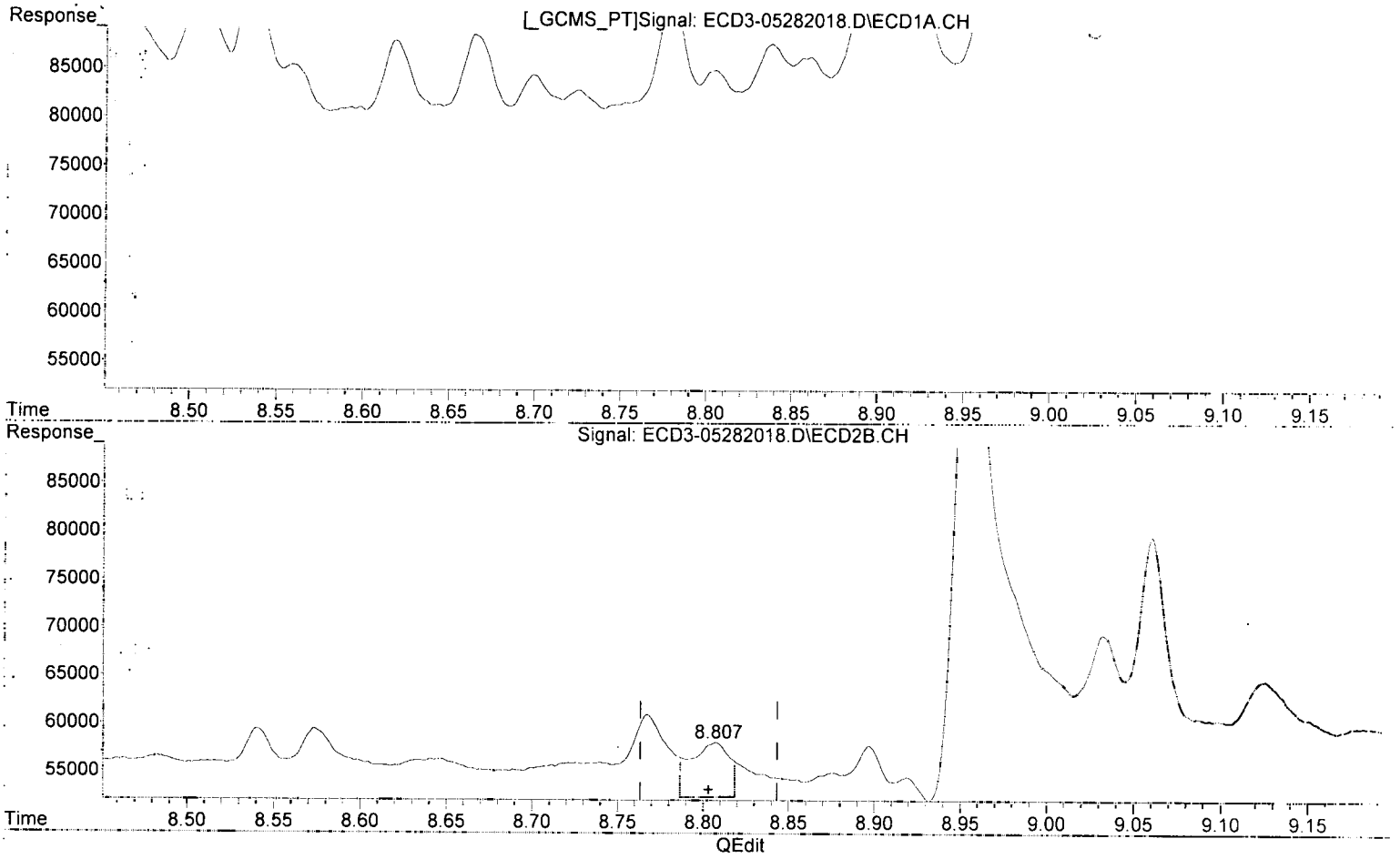




Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:59
Operator : MJB
Sample : 0050704-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

8.127min 0.065 ng/mL

response 7867

MJB 6/1/20

(15) 4,4'-DDD #2

8.807min 0.061 ng/mL (m)

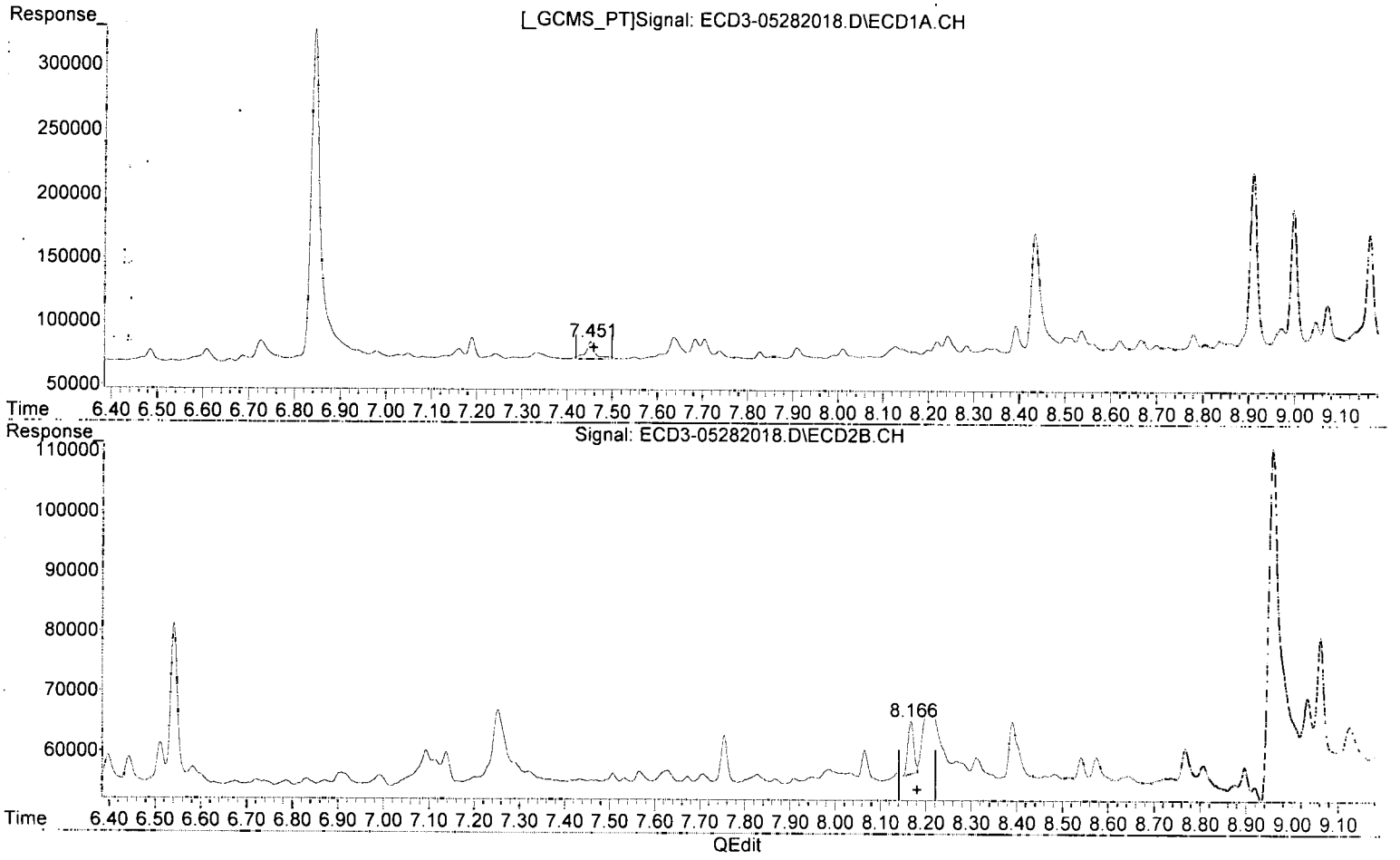
response 5710

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:59
Operator : MJB
Sample : 0050704-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.452min -0.036 ng/mL

response 13269

MJB 6.1.20

(26) 2,4'-DDE #2

8.167min 2144.868 ng/mL Q.pl

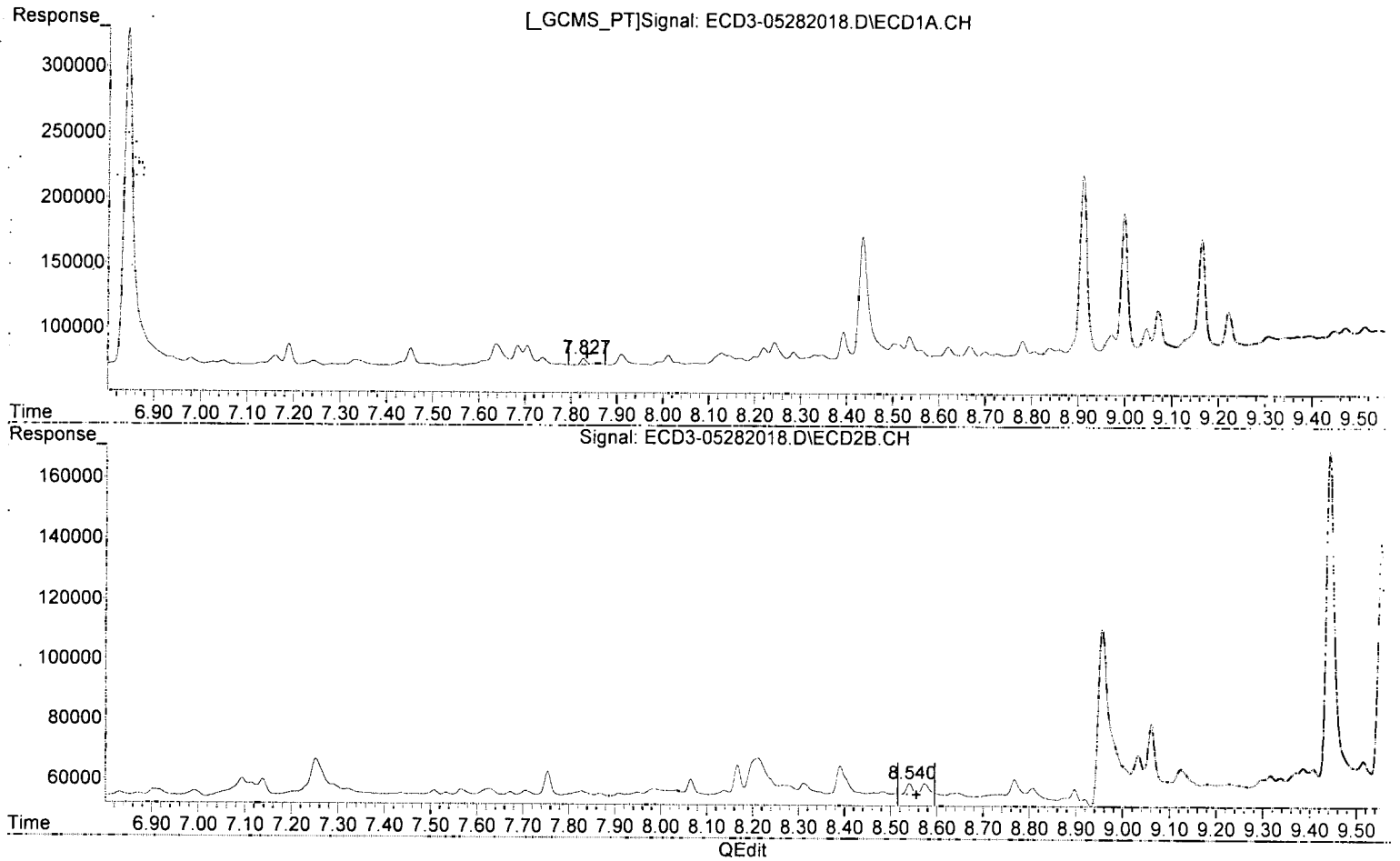
response 8880

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:59
Operator : MJB
Sample : 0050704-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.827min -0.161 ng/mL

response 4639

MJB 6/1/20

(28) 2,4'-DDD #2

8.541min 3167.834 ng/mL QDCI

response 3548

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:59
Operator : MJB
Sample : 0050704-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

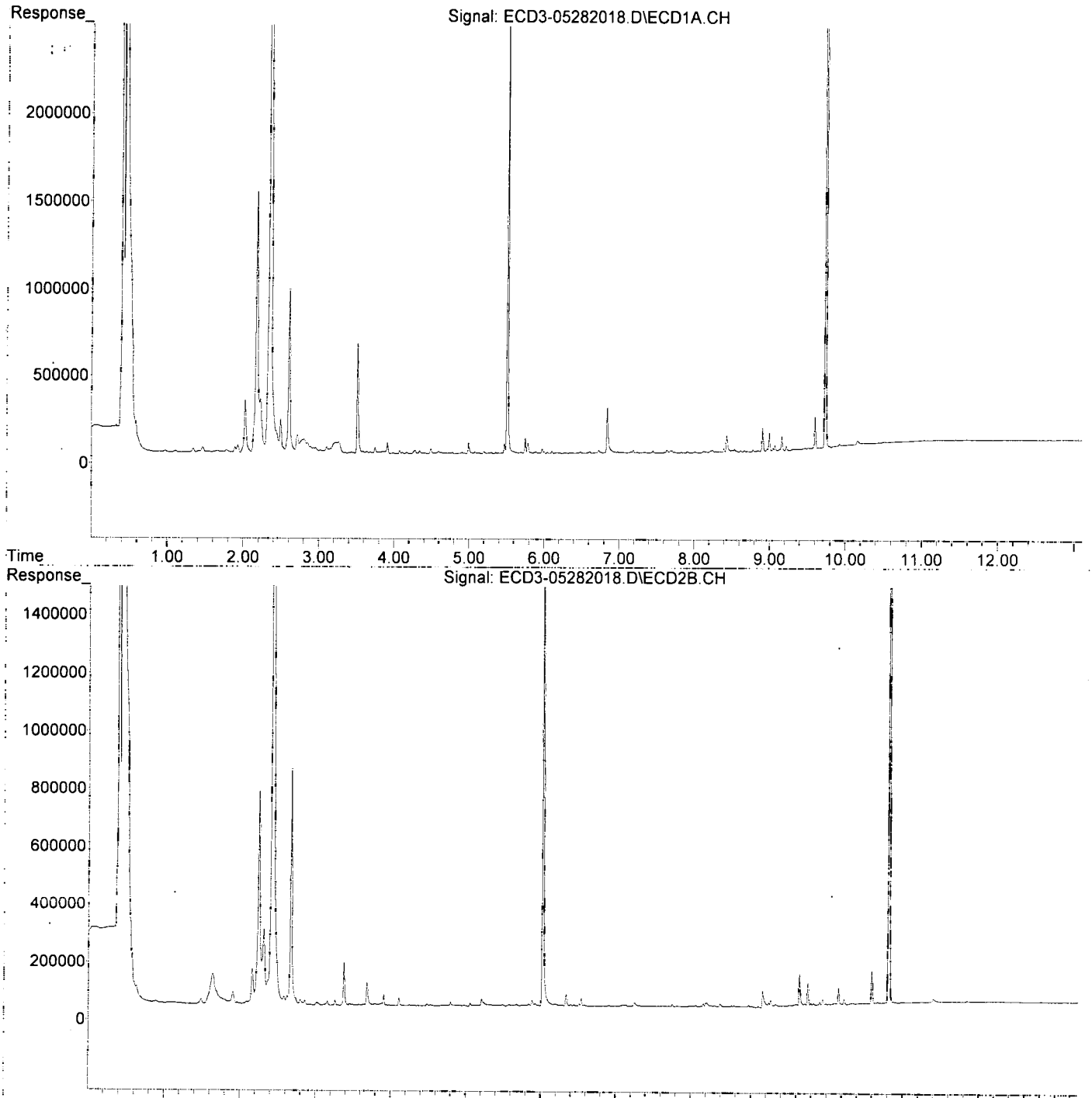
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.506	6.023	2828042	1857963	19.095	16.328	
22)	S DCBP (S)	9.734	10.616	4859658	2851230	44.114	42.813	
	Target Compounds							
2)	a-BHC	6.040	0.000	7974	0	0.039	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.727	0.000	15527	0	0.095	N.D.	#
6)	d-BHC	0.000	7.252	0	11061	N.D.	0.090	#
7)	Aldrin	6.980	0.000	4312	0	0.026	N.D.	#
8)	Heptachlo...	7.452	8.065f	13269	4488	0.085	0.038	#
9)	trans-Chl...	0.000	8.167	0	8880	N.D.	0.074	#
10)	cis-Chlor...	7.637	0.000	14967	0	0.095	N.D.	#
11)	Endosulfa...	7.705f	0.000	12290	0	0.086	N.D.	#
12)	4,4'-DDE	7.705	8.390	12290	9363	0.085	0.081	
13)	Dieldrin	7.909	8.541	8171	3548	0.051	0.030	#
14)	Endrin	0.000	8.767	0	4869	N.D.	0.056	#
15)	4,4'-DDD	8.127	8.767f	7867	4869	0.065	0.052	
16)	Endosulfa...	8.242	8.897	14984	4812	0.124	0.052	#
17)	4,4'-DDT	0.000	9.033	0	12158	N.D.	0.293	#
18)	Endrin Al...	8.536	9.125f	16821	4655	BelowCal	3407.150	
19)	Endosulfa...	8.838	9.317	4793	1808	0.040	0.021	#
20)	Methoxychlor	8.665	9.514	8200	5486	0.238	0.257	
21)	Endrin Ke...	9.045	9.748	16355	16974	0.114	0.177	#
23)	Hexachlor...	0.000	3.682f	0	76355	N.D.	0.258	#
24)	Hexachlor...	5.890	6.511	8453	5987	BelowCal	2197.574	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.452	8.167	13269	8880	BelowCal	2144.868	
27)	trans-Non...	7.637	0.000	14967	0	BelowCal	N.D.	
28)	2,4'-DDD	7.827	8.541	4639	3548	BelowCal	3167.834	
29)	2,4'-DDT	8.011	8.767	6857	4869	0.091	0.091	
30)	cis-Nonac...	8.127	0.000	7867	0	BelowCal	N.D.	
31)	Mirex	8.779	9.748	11196	16974	7125.771	3567.278	#
32)	Chlordane...	7.705	0.000	12290	0	0.696	N.D.	#
33)	Chlordane...	7.827	0.000	4639	0	0.224	N.D.	#
34)	Chlordane...	8.392f	9.125	21621	4655	4.064	BelowCal	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.827f	0.000	4639	0	5.573	N.D.	#
37)	Toxaphene...	8.127f	9.033	7867	12158	5.221	8.913	#
38)	Toxaphene...	8.433	9.060	94714	21004	30.451	9.678	#
39)	Toxaphene...	8.665	9.125	8200	4655	BelowCal	BelowCal	
40)	Toxaphene...	8.908	9.317	136798	1808	58.085	BelowCal	#
41)	Toxaphene...	8.971	9.708	12519	8790	4.127	4.343	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 17:59
Operator : MJB
Sample : 0050704-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 18:16
Operator : MJB 7~~0~~1 MJB
Sample : 0050~~653~~-BS1 6/1/20
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:10 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

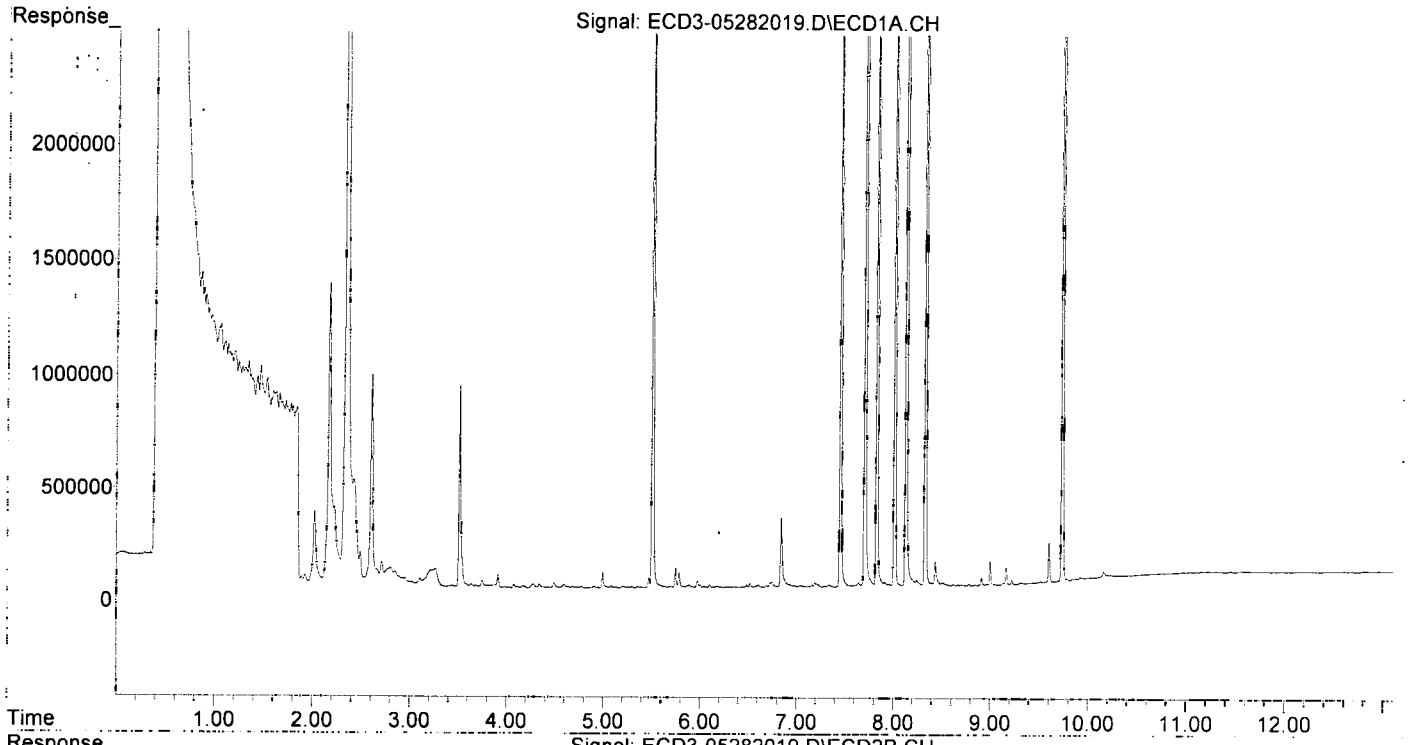
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.507	6.023	3266018	2248888	22.052	19.830	S-06
22)	S	DCBP (S)	9.734	10.617	4946991	2935554	44.910	44.112	
		Target Compounds							
2)		a-BHC	6.041	0.000	7437	0	0.037	N.D.	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	6.743	0.000	20234	0	0.124	N.D.	#
6)		d-BHC	6.519f	7.252	16502	14253	0.118	0.117	
7)		Aldrin	0.000	7.625f	0	5817	N.D.	0.044	#
8)		Heptachlo...	7.452	8.016	3895719	6494	24.911	0.055	#
9)		trans-Chl...	7.565f	8.167	6044	2931968	0.038	24.311	#
10)		cis-Chlor...	7.637	0.000	17266	0	0.110	N.D.	#
11)		Endosulfa...	7.705f	0.000	6870818	0	47.873	N.D.	#
12)		4,4'-DDE	7.705	8.390	6870818	4914165	47.631	42.676	
13)		Dieldrin	7.908	8.542	17145	3015582	0.107	25.184	#
14)		Endrin	0.000	8.767	0	2733194	N.D.	31.616	#
15)		4,4'-DDD	8.129	8.807	6323767	4065279	52.088	43.080	
16)		Endosulfa...	8.243	0.000	23323	0	0.193	N.D.	#
17)		4,4'-DDT	8.329	9.035	5808850	3236037	59.212	53.209	
18)		Endrin Al...	8.513	0.000	9970	0	BelowCal	N.D.	
19)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.997f	9.752	105401	2674	0.732	0.028	#
23)		Hexachlor...	0.000	3.682f	0	138056	N.D.	0.633	#
24)		Hexachlor...	5.891	6.512	9745	5707	BelowCal	2197.576	
25)		Oxychlordane	7.352f	7.965	6675	6751	BelowCal	3277.669	
26)		2,4'-DDE	7.452	8.167	3895719	2931968	42.453	38.350	
27)		trans-Non...	7.637	0.000	17266	0	BelowCal	N.D.	
28)		2,4'-DDD	7.828	8.542	4517361	3015582	55.045	45.652	
29)		2,4'-DDT	8.012	8.767	4528744	2733194	60.159	50.955	
30)		cis-Nonac...	8.129	8.807	6323767	4065279	40.850	35.195	
31)		Mirex	8.780	9.752	8085	2674	7125.802	3567.489	#
32)		Chlordane...	7.705	0.000	6870818	0	389.271	N.D.	#
33)		Chlordane...	7.828	0.000	4517361	0	217.998	N.D.	#
34)		Chlordane...	8.392f	0.000	10218	0	1.920	N.D.	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.828f	8.649f	4517361	5234	5426.811	4.673	#
37)		Toxaphene...	8.129f	9.035	6323767	3236037	4196.721	2372.349	#
38)		Toxaphene...	8.434	9.035f	105826	3236037	34.024	1491.024	#
39)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
40)		Toxaphene...	8.910	0.000	35072	0	14.892	N.D.	#
41)		Toxaphene...	8.965	9.709	5855	2638	1.930	1.304	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

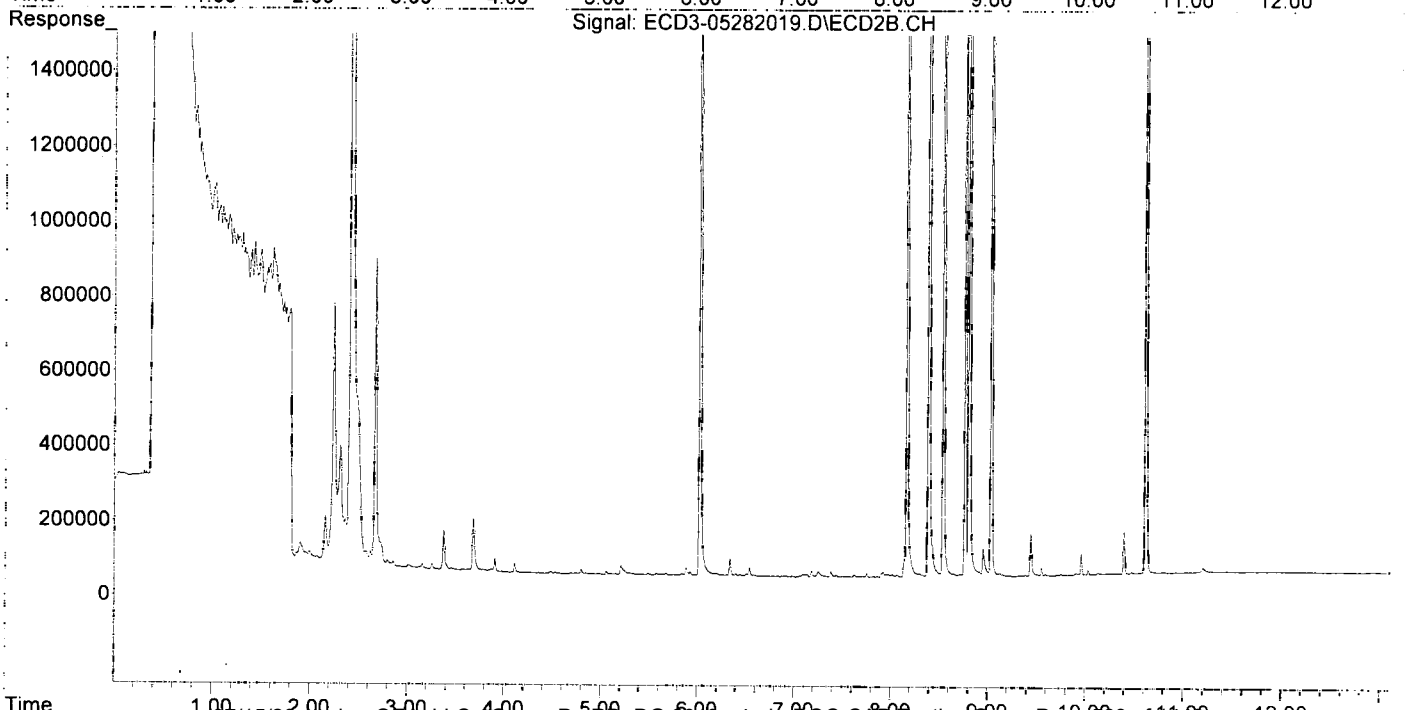
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 18:16
Operator : MJB 704 MJB 6/1/20
Sample : 0050~~653~~-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:10 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 18:34
Operator : MJB
Sample : 0E28051-CCV3
Misc : A20E233, AB 100 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/11/20

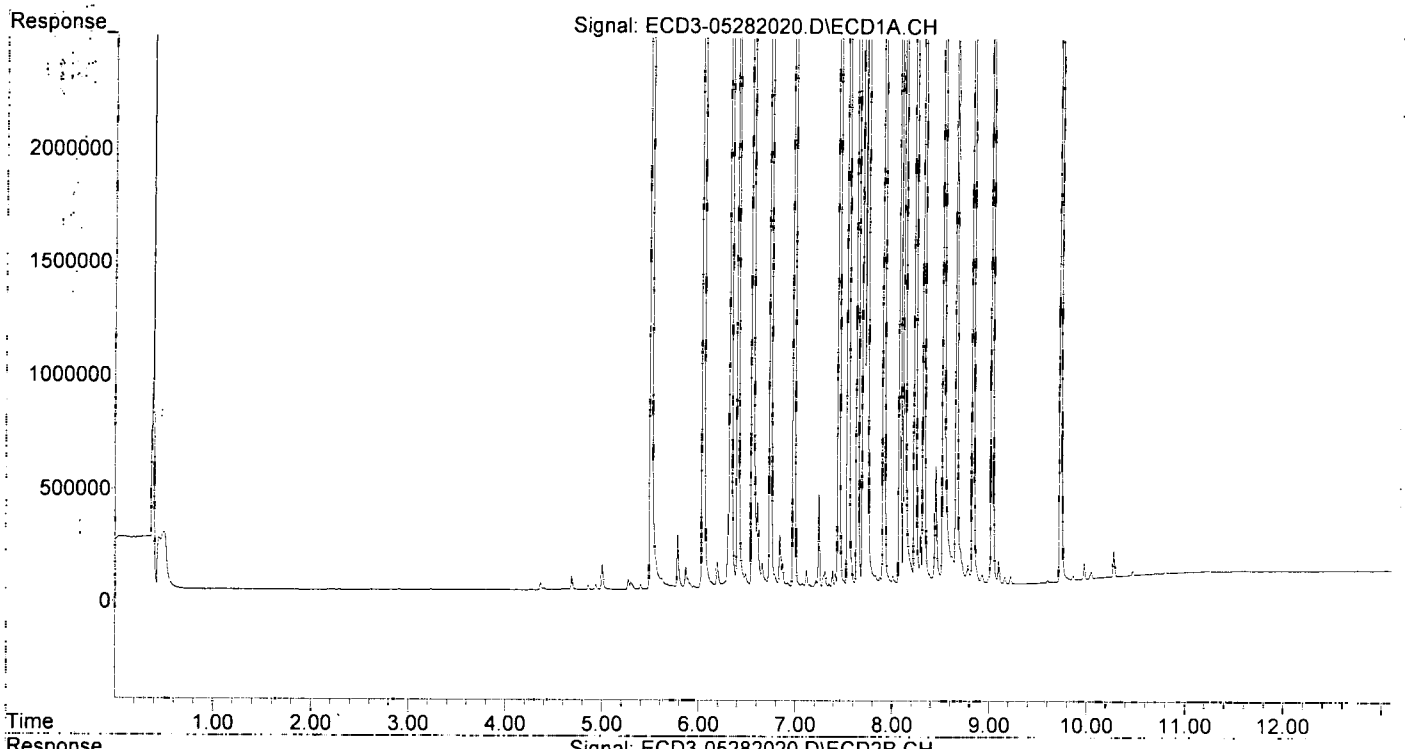
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.507	6.024	13979371	9200264	94.387	84.486	
22)	S DCBP (S)	9.736	10.617	10778261	6333947	97.944	97.816	
	Target Compounds							
2)	a-BHC	6.049	6.631	19955140	12463945	98.644	79.402	
3)	g-BHC	6.333	6.951	17364738	11048314	100.559	82.006	
4)	b-BHC	6.407	7.015	7031985	4662266	103.075	75.913	
5)	Heptachlor	6.745	7.326	15693706	9445783	95.840	83.441	
6)	d-BHC	6.557	7.273	15841935	9012300	112.860	73.729	
7)	Aldrin	6.988	7.594	16951422	11474410	101.117	86.341	
8)	Heptachlo...	7.451	8.034	14668351	9856520	93.797	83.748	
9)	trans-Chl...	7.548	8.174	15533245	10770449	98.712	89.305	
10)	cis-Chlor...	7.645	8.282	14946166	10337801	95.217	89.252	
11)	Endosulfa...	7.744	8.333	13551698	9165742	94.423	85.233	
12)	4,4'-DDE	7.706	8.391	14883978	10161250	103.180	88.242	
13)	Dieldrin	7.917	8.535	15709568	10630287	97.749	88.776	
14)	Endrin	8.083	8.763	9249099	5463277	74.975	63.196	
15)	4,4'-DDD	8.131	8.808	11734701	7400482	96.658	78.423	Q-3
16)	Endosulfa...	8.241	8.912	11770295	7707989	97.235	84.040	
17)	4,4'-DDT	8.330	9.036	10029042	5361087	94.882	83.235	
18)	Endrin Al...	8.533	9.150	10356393	7219404	99.724	92.125	
19)	Endosulfa...	8.837	9.342	11199883	6642270	92.976	78.908	
20)	Methoxychlor	8.666	9.517	4617606	2434478	93.973	80.144	
21)	Endrin Ke...	9.033	9.743	14325467	7934905	99.450	82.935	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.890	6.543f	36413	29767	0.071	0.029	#
25)	Oxychlordane	7.386	7.996	70439	35352	0.345	0.139	#
26)	2,4'-DDE	7.451	8.174	14668351	10770449	154.994	149.381	
27)	trans-Non...	7.645	8.229f	14946166	83339	103.148	0.535	#
28)	2,4'-DDD	0.000	8.535f	0	10630287	N.D.	168.285	#
29)	2,4'-DDT	8.012	8.763	43062	5463277	0.572	101.851	#
30)	cis-Nonac...	8.131	8.808	11734701	7400482	75.542	65.036	
31)	Mirex	8.785	9.743	85651	7934905	0.495	120.830	#
32)	Chlordane...	7.706	8.333	14883978	9165742	843.262	633.552	
33)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)	Chlordane...	8.330f	9.111	10029042	32708	1884.905	4.754	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.656f	0	28502	N.D.	25.449	#
37)	Toxaphene...	8.083	9.036	9249099	5361087	6138.095	3930.230	
38)	Toxaphene...	8.454f	9.036f	536535	5361087	172.499	2470.154	#
39)	Toxaphene...	8.666	9.150	4617606	7219404	1525.467	2136.434	#
40)	Toxaphene...	8.930f	9.342f	41968	6642270	17.820	3371.832	#
41)	Toxaphene...	8.930f	9.675f	41968	53898	13.835	26.629	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

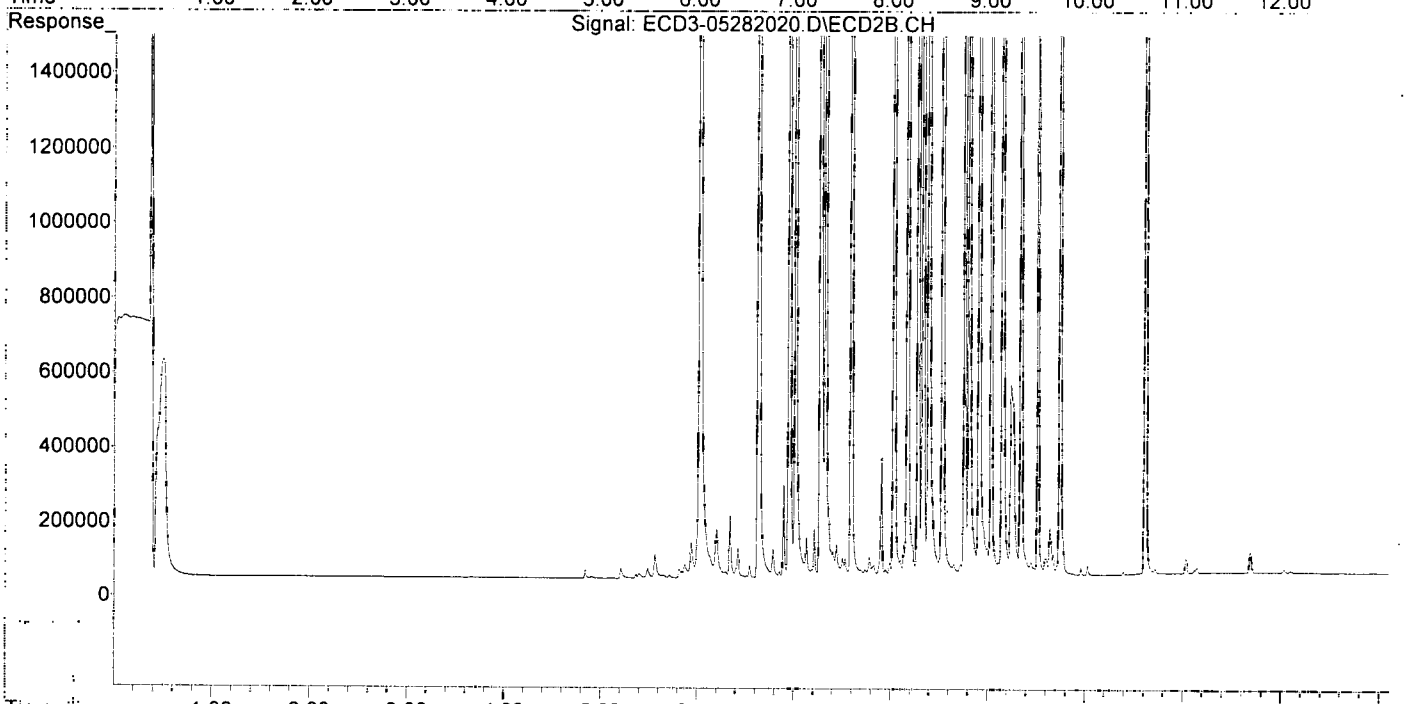
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 18:34
Operator : MJB
Sample : 0E28051-CCV3
Misc : A20E233, AB 100 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 18:51
Operator : MJB
Sample : 0E28051-CCV4
Misc : A20C359, 9-42 100 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:18 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/11/20

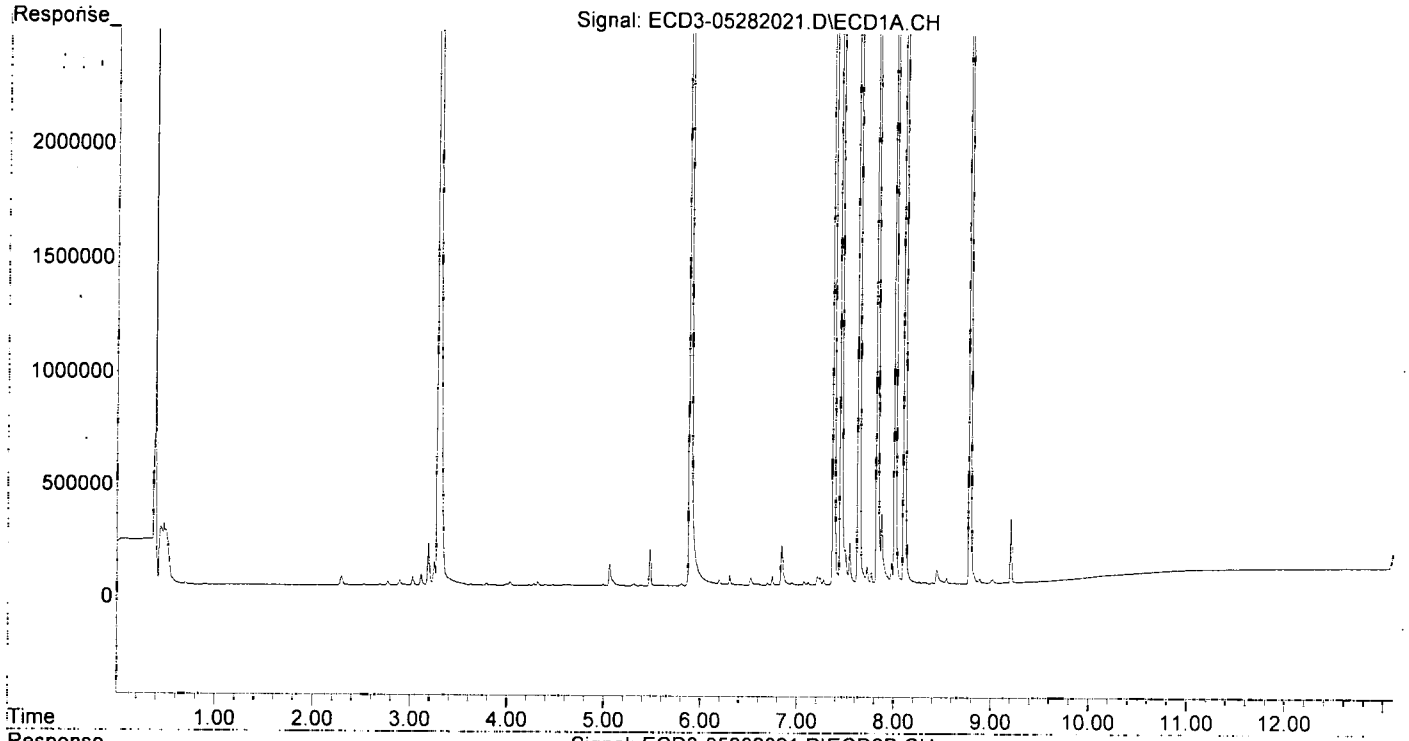
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.479f	0.000	161846	0	1.093	N.D.	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.305f	0.000	44175	0	0.256	N.D.	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.745	7.326	42312	24811	0.258	0.219	
6)	d-BHC	6.522f	0.000	33732	0	0.240	N.D.	#
7)	Aldrin	6.949f	7.584	11281	3643	0.067	0.027	#
8)	Heptachlo...	7.453	8.066f	9462774	68493	60.510	0.582	#
9)	trans-Chl...	7.547	8.168	186244	6555332	1.184	54.355	#
10)	cis-Chlor...	7.637	8.282	14326736	394298	91.271	3.404	#
11)	Endosulfa...	7.725	8.346	75556	55232	0.526	0.514	
12)	4,4'-DDE	7.725f	8.346f	75556	55232	0.524	0.480	
13)	Dieldrin	7.902	8.543	86946	5393379	0.541	45.041	#
14)	Endrin	8.111f	8.768	15567302	4065623	126.191	47.029	#
15)	4,4'-DDD	8.111	8.807	15567302	10359271	128.226	109.777	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	8.330	0.000	6277	0	0.166	N.D.	#
18)	Endrin Al...	8.546	9.154	25255	5578	0.021	3407.139	#
19)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.021	9.736	15099	6173640	0.105	64.527	#
23)	Hexachlor...	3.292	3.704	15367131	12850332	92.550	86.868	
24)	Hexachlor...	5.891	6.494	13418782	8615472	98.138	81.834	
25)	Oxychlordane	7.379	7.962	12102971	8497321	92.557	88.270	
26)	2,4'-DDE	7.453	8.168	9462774	6555332	101.537	88.117	
27)	trans-Non...	7.637	8.238	14326736	9623070	98.909	91.226	
28)	2,4'-DDD	7.829	8.543	7908141	5393379	96.185	82.870	
29)	2,4'-DDT	8.013	8.768	7040518	4065623	93.525	75.795	Q.31
30)	cis-Nonac...	8.111	8.807	15567302	10359271	99.877	92.140	
31)	Mirex	8.785	9.736	9390847	6173640	95.784	93.167	
32)	Chlordane...	7.725	8.346	75556	55232	4.281	3.818	
33)	Chlordane...	7.829	8.430	7908141	15447	381.629	1.250	#
34)	Chlordane...	8.396f	0.000	5361	0	1.008	N.D.	#
35)	Chlordane...	3.991	0.000	5090	0	NoCal	N.D.	
36)	Toxaphene...	7.829f	8.655f	7908141	145526	9500.235	129.936	#
37)	Toxaphene...	8.111	0.000	15567302	0	10331.124	N.D.	#
38)	Toxaphene...	8.396f	0.000	5361	0	1.724	N.D.	#
39)	Toxaphene...	0.000	9.154	0	5578	N.D.	BelowCal	
40)	Toxaphene...	8.886	0.000	18980	0	8.059	N.D.	#
41)	Toxaphene...	0.000	9.736f	0	6173640	N.D.	3050.227	#
42)	Toxaphene...	3.991	0.000	5090	0	NoCal	N.D.	

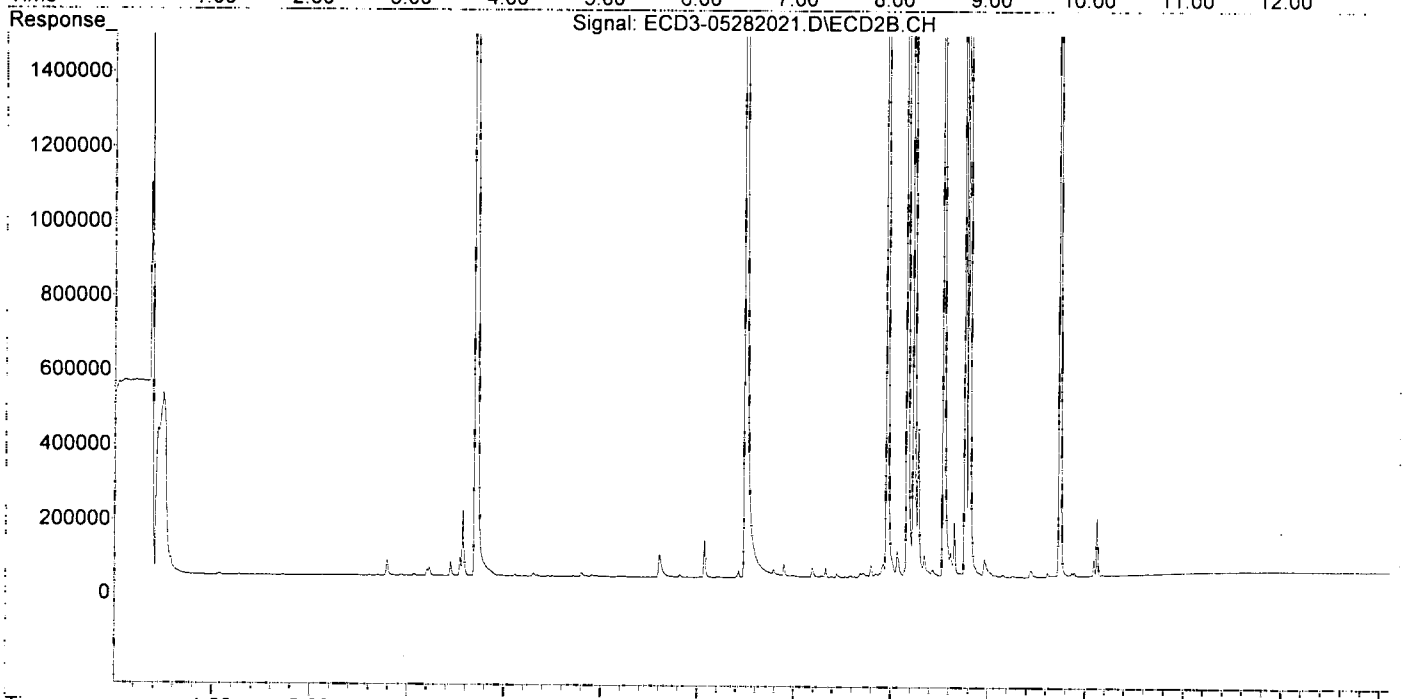
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 18:51
Operator : MJB
Sample : 0E28051-CCV4
Misc : A20C359, 9-42 100 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:18 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





07/15/20 Anchor QEA, LLC - Casco PreRD_DG 2019_4a-0. DOC-CAP Testing Cores Page 587 of 1443

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 19:08
Operator : MJB
Sample : 0E28051-CCB2
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

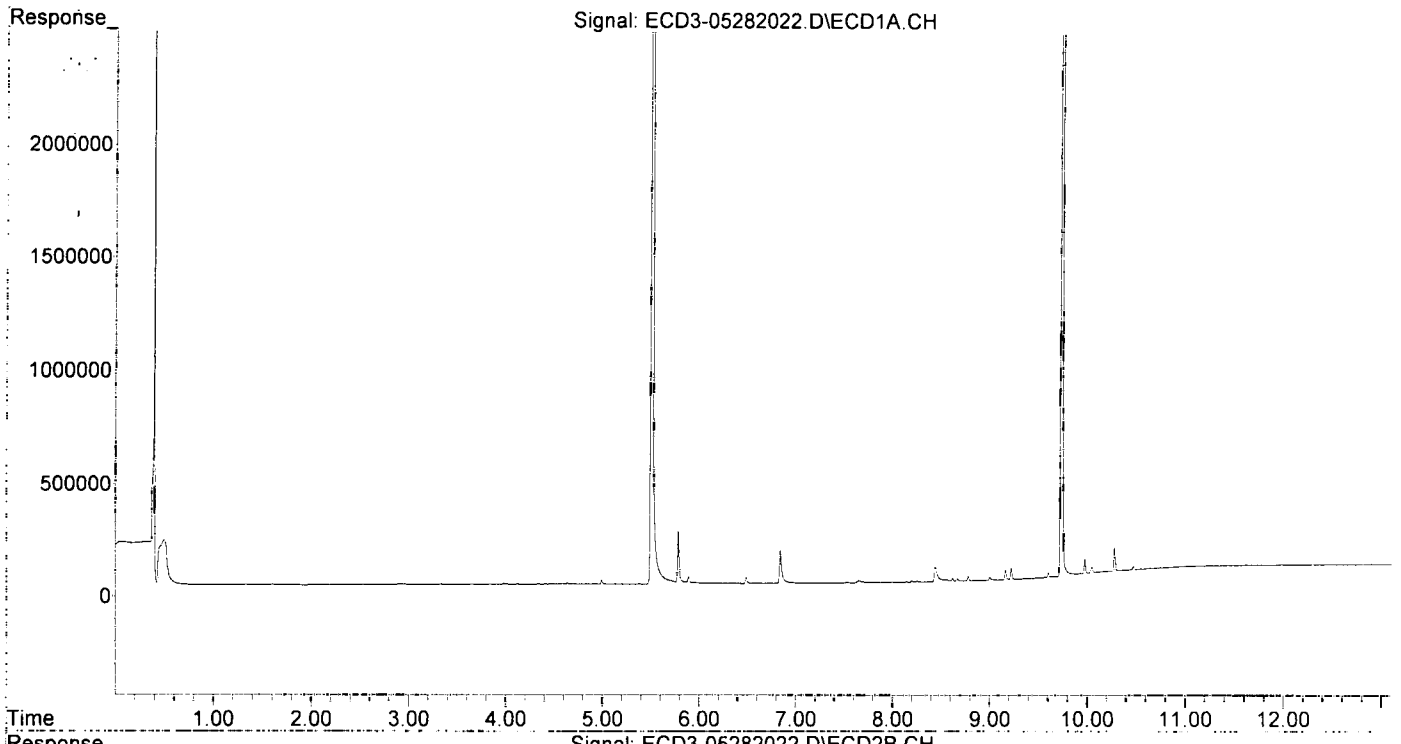
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.507	6.024	13766999	8279473	92.953	75.644	
22)	S DCBP (S)	9.737	10.618	9990026	5867364	90.786	90.280	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	7.531	0.000	4138	0	0.026	N.D.	#
10)	cis-Chlor...	7.652	0.000	9324	0	0.059	N.D.	#
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)	4,4'-DDE	7.694	0.000	4912	0	0.034	N.D.	#
13)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)	Endrin	0.000	0.000	0	0	N.D.	N.D.	
15)	4,4'-DDD	8.149f	0.000	4792	0	0.039	N.D.	#
16)	Endosulfa...	8.258f	8.923	7024	3680	0.058	0.040	
17)	4,4'-DDT	0.000	9.058f	0	6818	N.D.	0.195	#
18)	Endrin Al...	8.534	0.000	3321	0	BelowCal	N.D.	
19)	Endosulfa...	0.000	9.319	0	4540	N.D.	0.054	#
20)	Methoxychlor	8.674	0.000	8903	0	0.255	N.D.	#
21)	Endrin Ke...	9.036	0.000	4087	0	0.028	N.D.	#
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.892	0.000	23855	0	BelowCal	N.D.	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
27)	trans-Non...	7.652	8.237	9324	2112	BelowCal	1953.544	
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
30)	cis-Nonac...	8.149f	0.000	4792	0	BelowCal	N.D.	
31)	Mirex	8.782	0.000	21092	0	7125.671	N.D.	#
32)	Chlordane...	7.694f	0.000	4912	0	0.278	N.D.	#
33)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)	Toxaphene...	0.000	9.058f	0	6818	N.D.	4.998	#
38)	Toxaphene...	8.444f	9.058	63696	6818	20.478	3.141	#
39)	Toxaphene...	8.674	0.000	8903	0	BelowCal	N.D.	
40)	Toxaphene...	0.000	9.319	0	4540	N.D.	BelowCal	
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

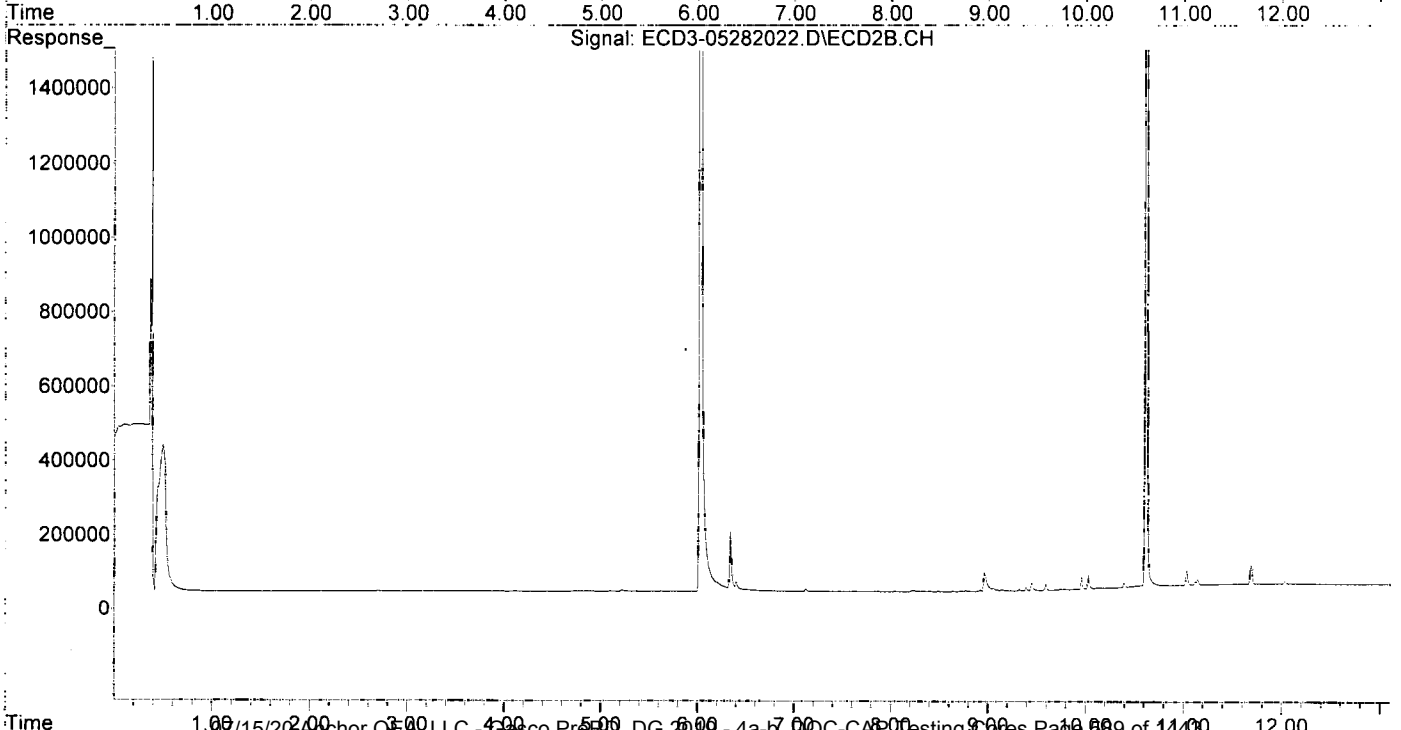
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 19:08
Operator : MJB
Sample : 0E28051-CCB2
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 23:26
Operator : MJB
Sample : 0050704-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 16:28:19 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

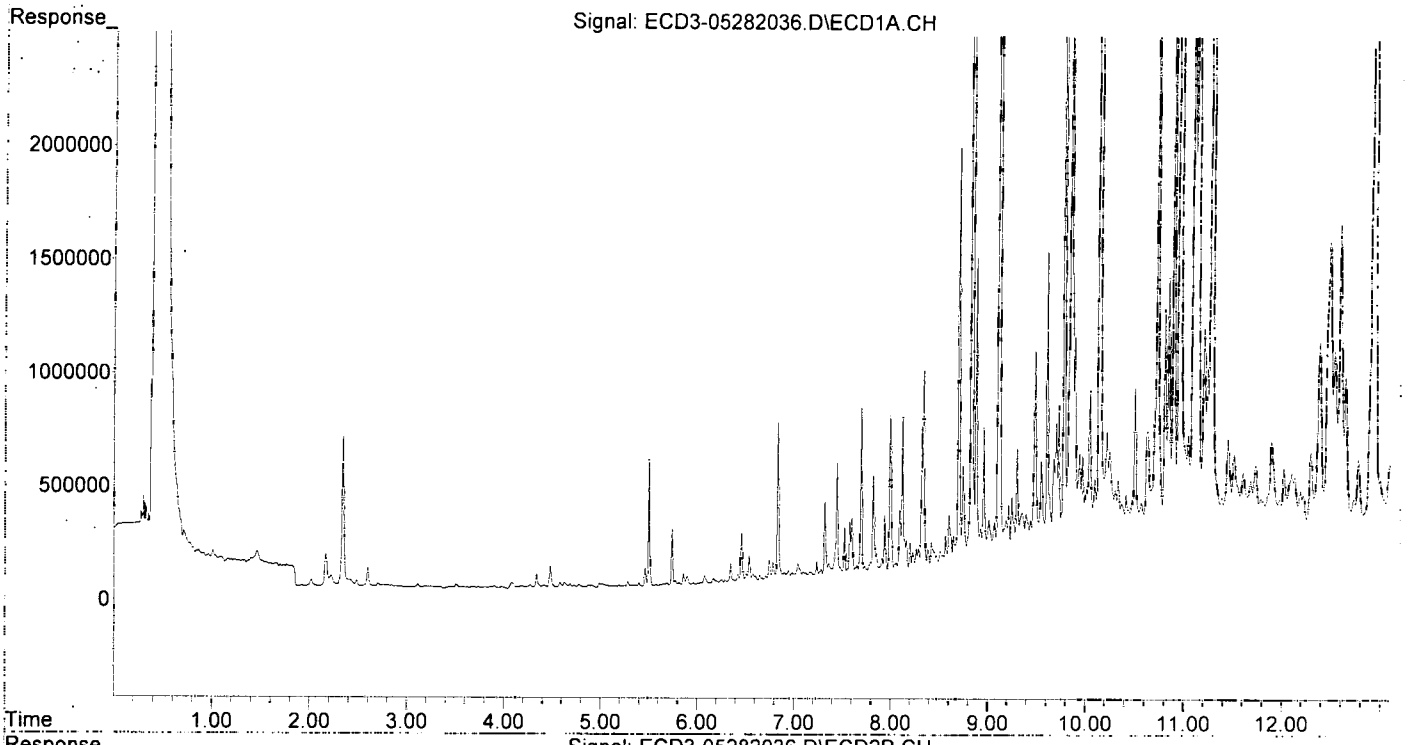
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.499	6.016	556796	474851	3.759	~~4.043~~
22)	S DCBP (S)	9.728	10.613	637375	494983	5.596	7.114 S-4
	Target Compounds						
2)	a-BHC	6.034	6.625	6318	17695	0.031	0.113 #
3)	g-BHC	6.345	6.943	81764	14841	0.473	0.110 #
4)	b-BHC	6.422f	7.026	32349	79040	0.474	1.287 #
5)	Heptachlor	6.744	7.348f	84511	15150	0.516	0.134 #
6)	d-BHC	6.537	7.264	109679	53368	0.781	0.437 #
7)	Aldrin	6.983	7.586	18664	18091	0.111	0.136
8)	Heptachlo...	7.446	8.020	486512	14181	3.111	0.120 #
9)	trans-Chl...	7.525	8.161	197862	369491	1.257	3.064 #
10)	cis-Chlor...	7.635	8.299f	17881	254958	0.114	2.201 #
11)	Endosulfa...	7.732	8.335	20647	13605	0.144	0.127
12)	4,4'-DDE	7.697	8.382	721514	595753	5.002	5.174
13)	Dieldrin	7.912	8.533	50165	354526	0.312	2.961 #
14)	Endrin	8.094	8.760	255183	296642	2.069	3.431 #
15)	4,4'-DDD	8.121	8.800	661913	609551	5.452	6.459
16)	Endosulfa...	8.229	8.893	62913	105480	0.520	1.150 #
17)	4,4'-DDT	8.321	9.029	612356	351454	7.112 MDL-MDL	6.421
18)	Endrin Al...	8.540	9.156	35323	281365	0.119	3.265 #
19)	Endosulfa...	8.835	9.351	15741888	1082946	130.682	12.865 #
20)	Methoxychlor	8.648	9.540f	115980	1143144	2.854	40.711 #
21)	Endrin Ke...	9.013	9.735	166339	582574	1.155	6.089 #
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24)	Hexachlor...	5.897	6.486f	36803	10501	0.074	2197.532 #
25)	Oxychlordane	7.361f	7.950f	44996	244808	0.148	2.263 #
26)	2,4'-DDE	7.446	8.161	486512	369491	5.203	4.554
27)	trans-Non...	7.653	8.235	26458	37433	BelowCal	0.119
28)	2,4'-DDD	7.820	8.533f	417371	355728	4.910	5.060m
29)	2,4'-DDT	7.994f	8.759f	673072	299830	8.941	5.590m
30)	cis-Nonac...	8.121	8.836	661913	431440	4.113	3.478
31)	Mirex	0.000	9.735	0	582574	N.D.	8.206 #
32)	Chlordane...	7.732	8.335	20647	13605	1.170	0.940
33)	Chlordane...	7.820	8.437	417371	97842	20.141	7.915 #
34)	Chlordane...	8.385	9.112	67580	140933	12.701	34.835 #
35)	Chlordane...	3.973	0.000	6654	0	NoCal	N.D.
36)	Toxaphene...	7.794	8.677	38966	40846	46.811	36.470
37)	Toxaphene...	8.094	9.029	255183	351454	169.350	257.652 #
38)	Toxaphene...	8.422	9.085	97081	119612	31.212	55.112 #
39)	Toxaphene...	8.648	9.126	115980	139694	35.373	34.645
40)	Toxaphene...	8.882	9.306	1326199	261749	563.112	140.940 #
41)	Toxaphene...	8.959	9.712	572567	241863	188.752	119.498
42)	Toxaphene...	3.973	0.000	6654	0	NoCal	N.D.

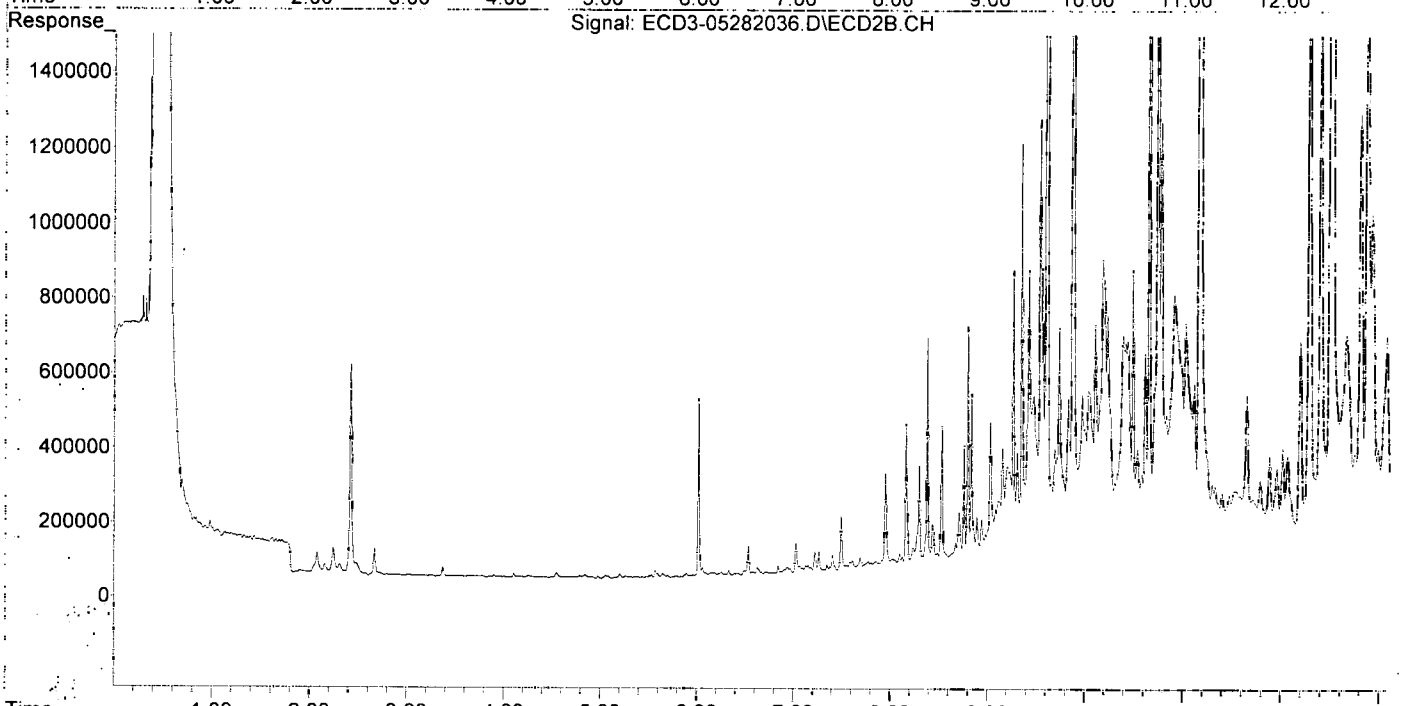
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 23:26
Operator : MJB
Sample : 0050704-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 16:28:19 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

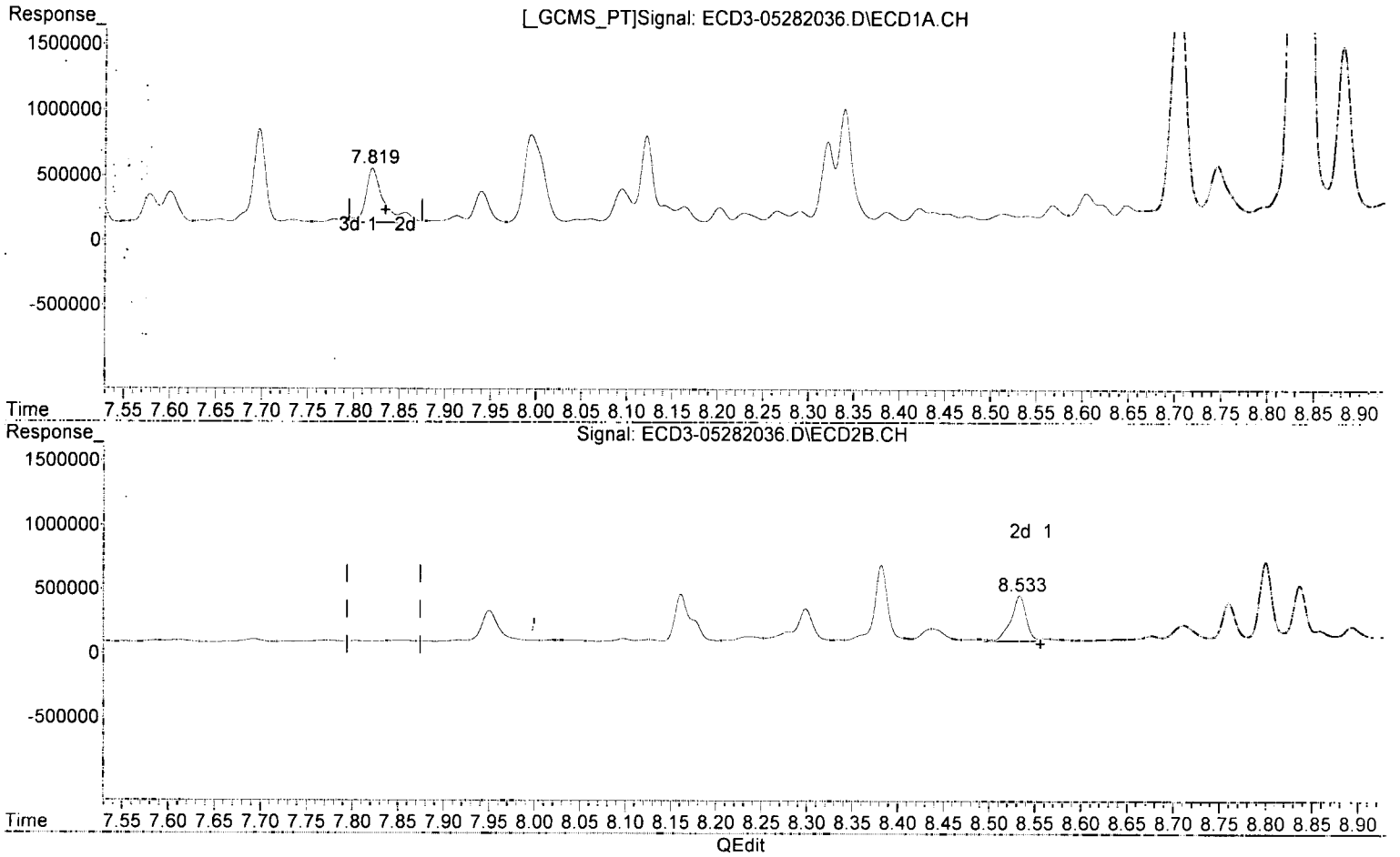




Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 23:26
Operator : MJB
Sample : 0050704-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.820min 4.910 ng/mL

response 417371

MJB 6/1/20

(28) 2,4'-DDD #2

8.533min 5.060 ng/mL m

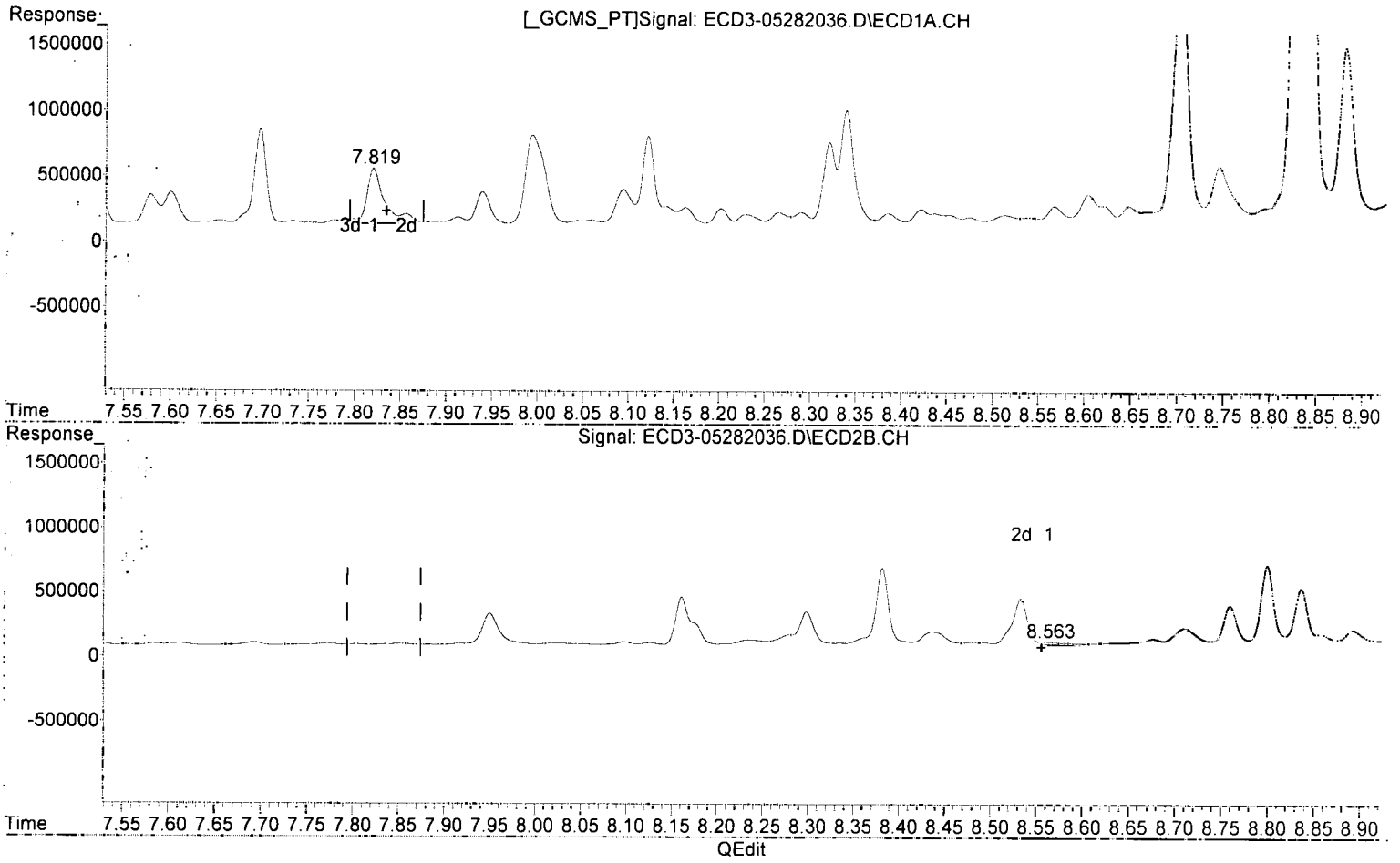
response 355728

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 23:26
Operator : MJB
Sample : 0050704-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.820min 4.910 ng/mL

response 417371

MJB 6/1/20

(28) 2,4'-DDD #2

8.564min 0.007 ng/mL

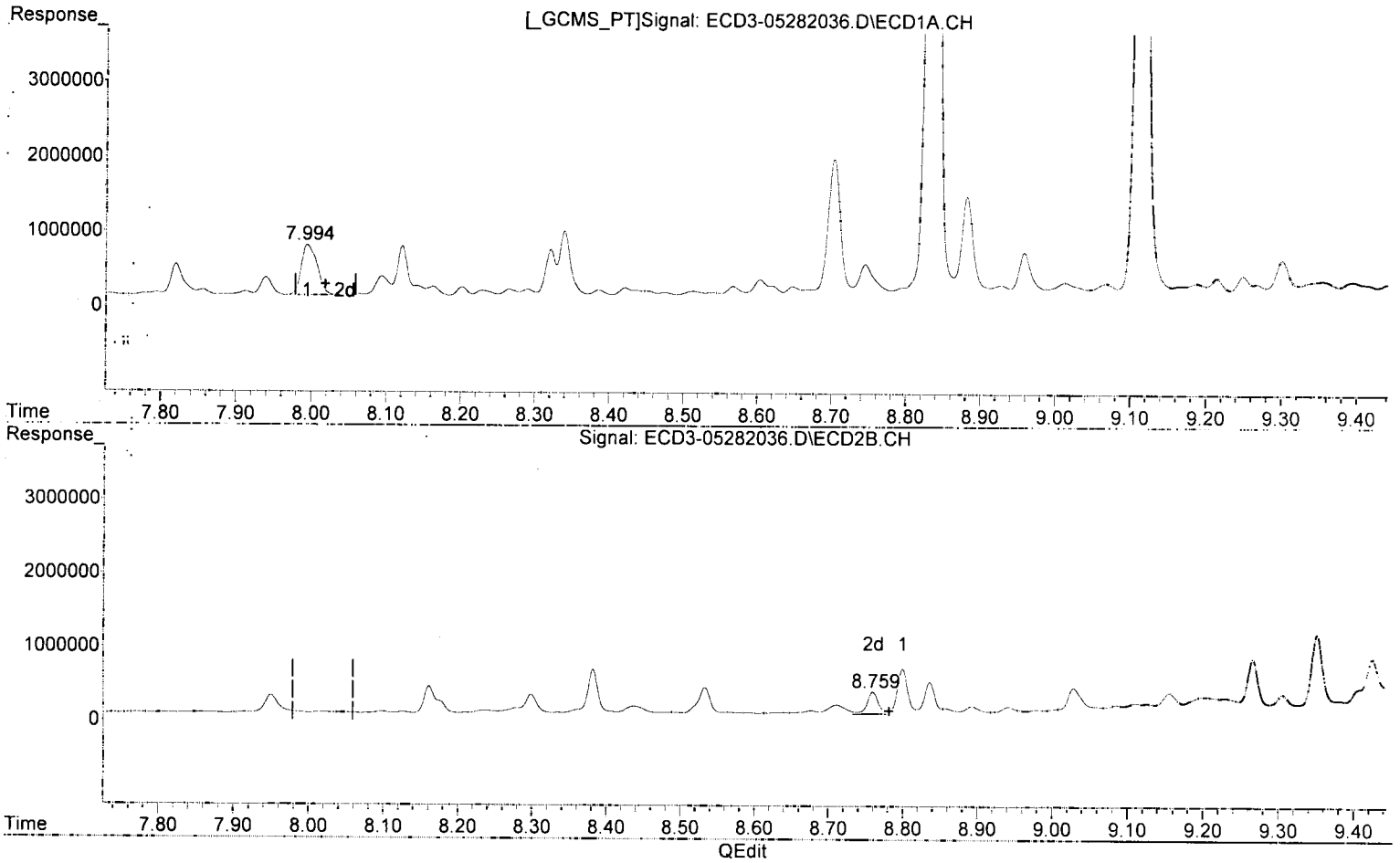
response 19820

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 23:26
Operator : MJB
Sample : 0050704-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.994min 8.941 ng/mL

response 673072

MJB 6/1/20

(29) 2,4'-DDT #2

8.759min 5.590 ng/mL (m)

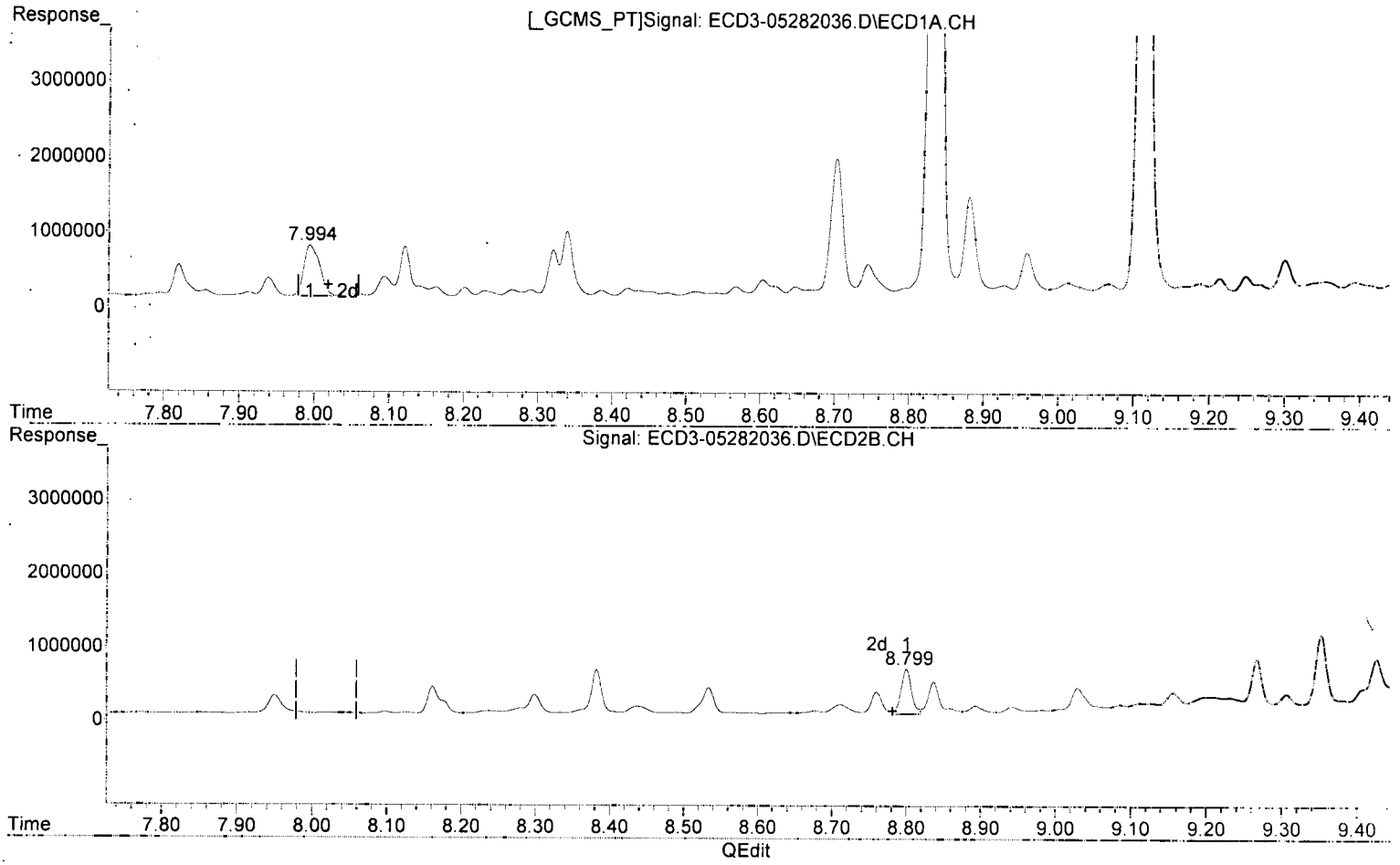
response 299830

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 23:26
Operator : MJB
Sample : 0050704-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.994min 8.941 ng/mL

response 673072

MJB 6/1/20

(29) 2,4'-DDT #2

8.800min 11.364 ng/mL

response 609551

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 23:26
Operator : MJB
Sample : 0050704-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

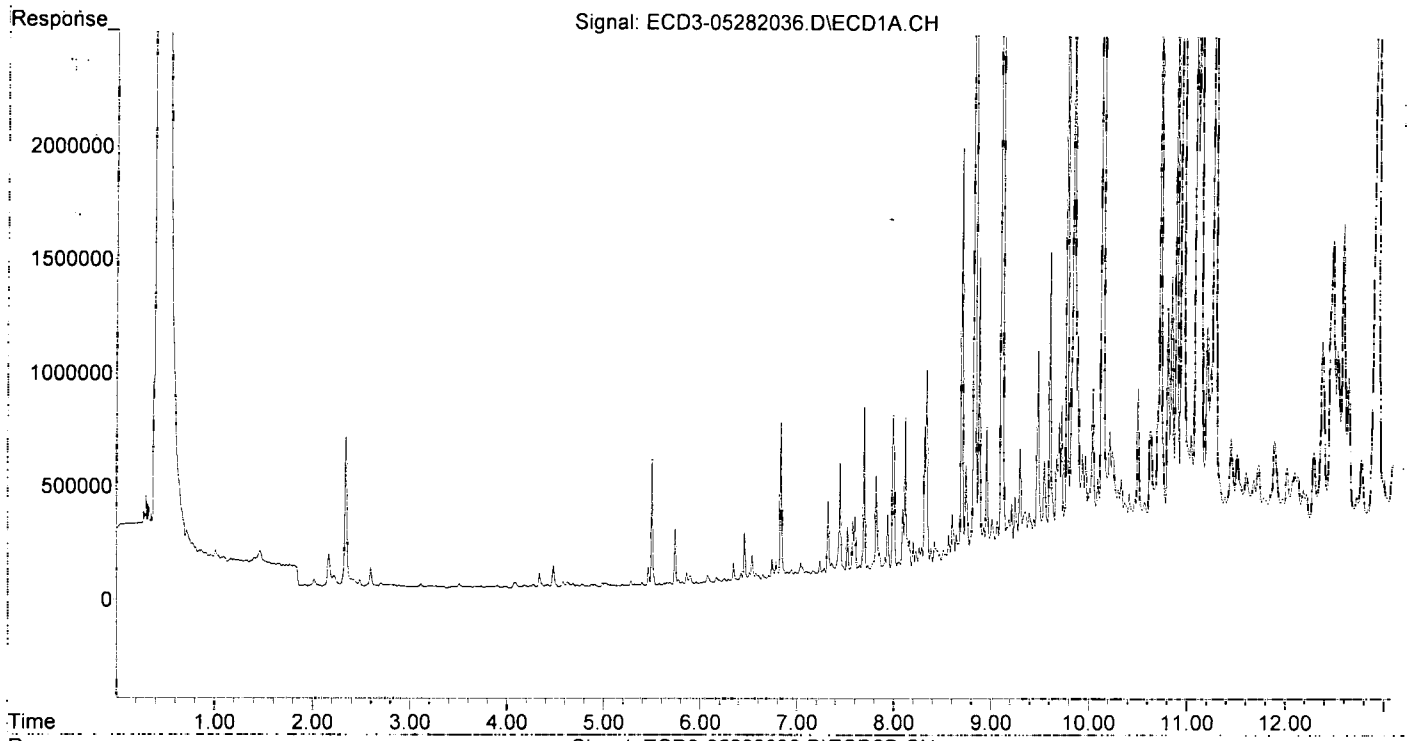
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.499	6.016	556796	474851	3.759	4.043	
22)	S	DCBP (S)	9.728	10.613	637375	494983	5.596	7.114	
		Target Compounds							
2)		a-BHC	6.034	6.625	6318	17695	0.031	0.113	#
3)		g-BHC	6.345	6.943	81764	14841	0.473	0.110	#
4)		b-BHC	6.422f	7.026	32349	79040	0.474	1.287	#
5)		Heptachlor	6.744	7.348f	84511	15150	0.516	0.134	#
6)		d-BHC	6.537	7.264	109679	53368	0.781	0.437	#
7)		Aldrin	6.983	7.586	18664	18091	0.111	0.136	
8)		Heptachlo...	7.446	8.020	486512	14181	3.111	0.120	#
9)		trans-Chl...	7.525	8.161	197862	369491	1.257	3.064	#
10)		cis-Chlor...	7.635	8.299f	17881	254958	0.114	2.201	#
11)		Endosulfa...	7.732	8.335	20647	13605	0.144	0.127	
12)		4,4'-DDE	7.697	8.382	721514	595753	5.002	5.174	
13)		Dieldrin	7.912	8.533	50165	354526	0.312	2.961	#
14)		Endrin	8.094	8.760	255183	296642	2.069	3.431	#
15)		4,4'-DDD	8.121	8.800	661913	609551	5.452	6.459	
16)		Endosulfa...	8.229	8.893	62913	105480	0.520	1.150	#
17)		4,4'-DDT	8.321	9.029	612356	351454	7.112	6.421	
18)		Endrin Al...	8.540	9.156	35323	281365	0.119	3.265	#
19)		Endosulfa...	8.835	9.351	15741888	1082946	130.682	12.865	#
20)		Methoxychlor	8.648	9.540f	115980	1143144	2.854	40.711	#
21)		Endrin Ke...	9.013	9.735	166339	582574	1.155	6.089	#
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.897	6.486f	36803	10501	0.074	2197.532	#
25)		Oxychlordane	7.361f	7.950f	44996	244808	0.148	2.263	#
26)		2,4'-DDE	7.446	8.161	486512	369491	5.203	4.554	
27)		trans-Non...	7.653	8.235	26458	37433	BelowCal	0.119	
28)		2,4'-DDD	7.820	8.564	417371	19820	4.910	0.007	#
29)		2,4'-DDT	7.994f	8.800	673072	609551	8.941	11.364	
30)		cis-Nonac...	8.121	8.836	661913	431440	4.113	3.478	
31)		Mirex	0.000	9.735	0	582574	N.D.	8.206	#
32)		Chlordane...	7.732	8.335	20647	13605	1.170	0.940	
33)		Chlordane...	7.820	8.437	417371	97842	20.141	7.915	#
34)		Chlordane...	8.385	9.112	67580	140933	12.701	34.835	#
35)		Chlordane...	3.973	0.000	6654	0	NoCal	N.D.	
36)		Toxaphene...	7.794	8.677	38966	40846	46.811	36.470	
37)		Toxaphene...	8.094	9.029	255183	351454	169.350	257.652	#
38)		Toxaphene...	8.422	9.085	97081	119612	31.212	55.112	#
39)		Toxaphene...	8.648	9.126	115980	139694	35.373	34.645	
40)		Toxaphene...	8.882	9.306	1326199	261749	563.112	140.940	#
41)		Toxaphene...	8.959	9.712	572567	241863	188.752	119.498	
42)		Toxaphene...	3.973	0.000	6654	0	NoCal	N.D.	

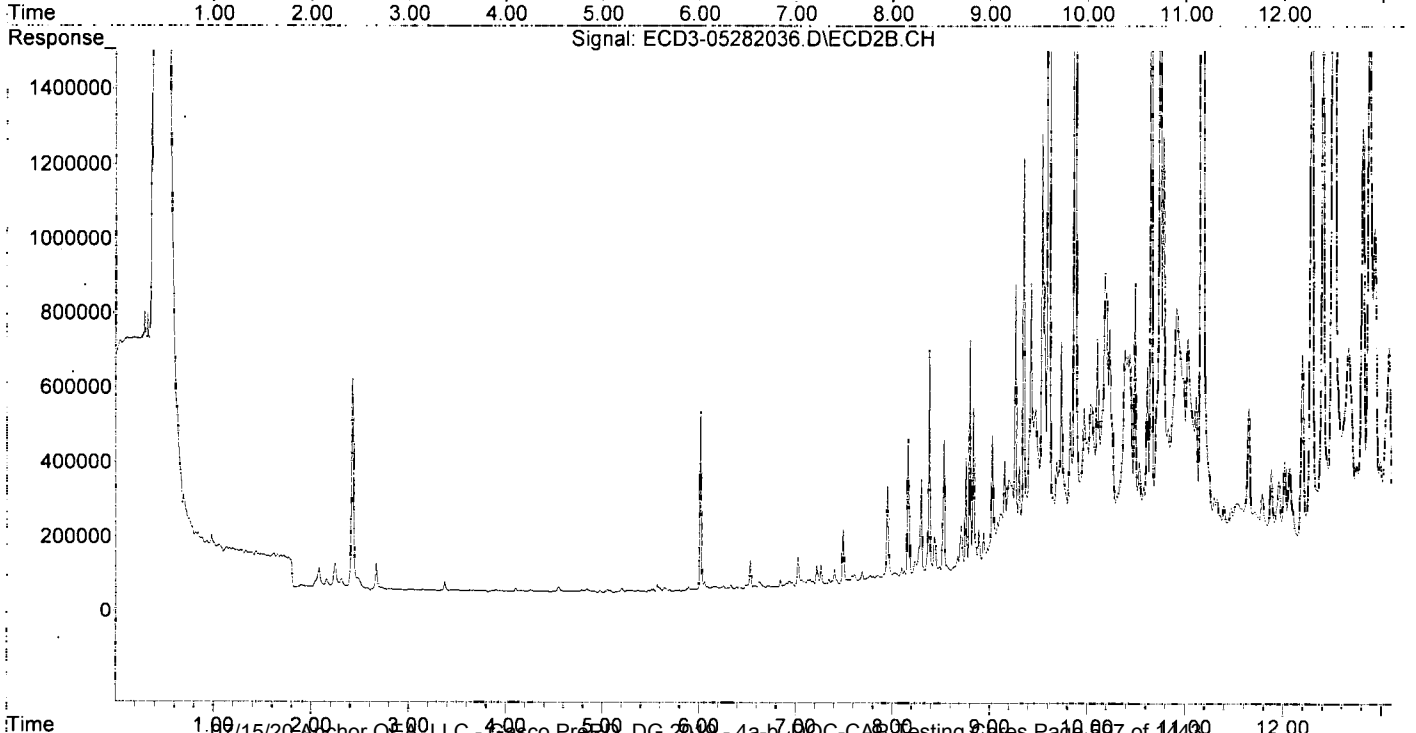
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2020 23:26
Operator : MJB
Sample : 0050704-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:13:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2020 0:41
Operator : MJB
Sample : 0E28051-CCV5
Misc : A20E232, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:14:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

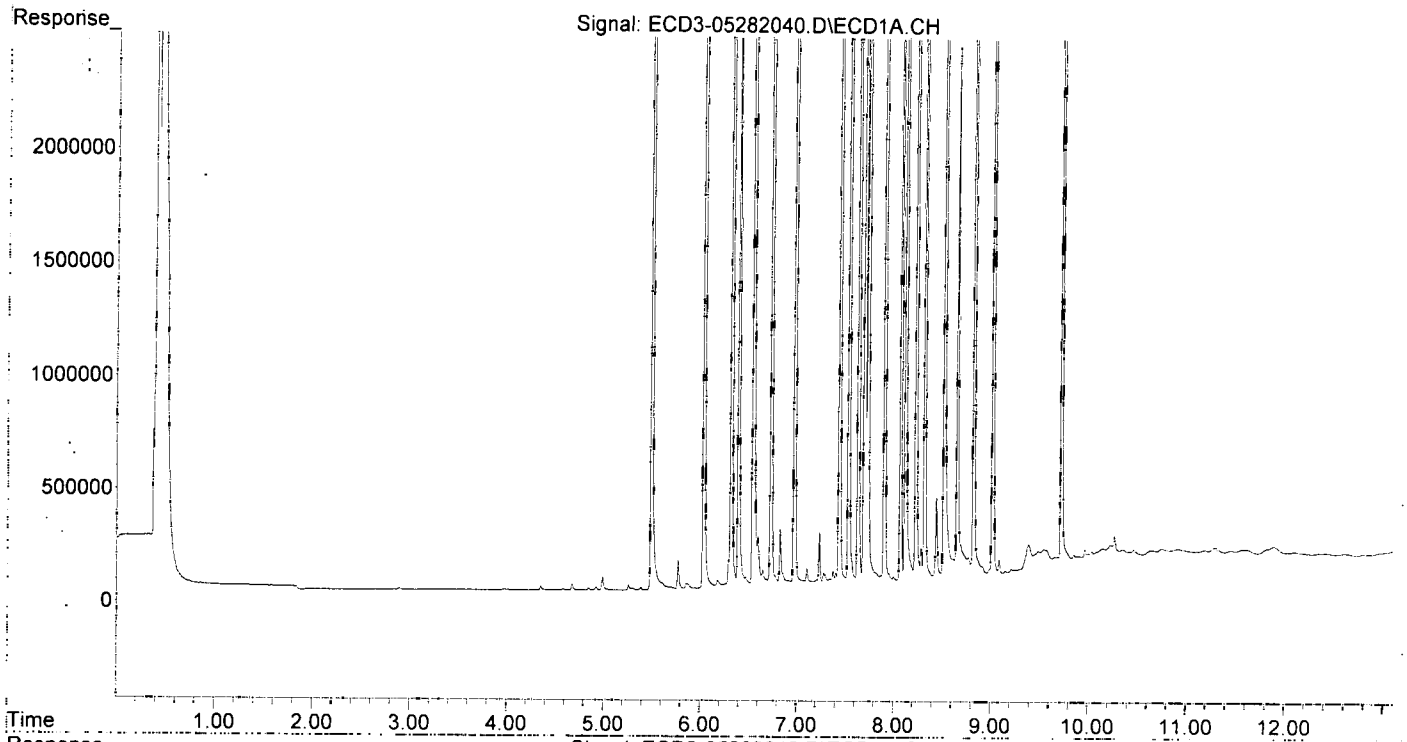
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.498	6.018	7410947	4069527	50.038	36.318	Q-3
22)	S DCBP (S)	9.728	10.609	5844012	3459551	53.080	52.220	
	Target Compounds							
2)	a-BHC	6.039	6.624	10475183	6768797	51.782	43.121	
3)	g-BHC	6.323	6.943	9247662	5828360	53.553	43.261	
4)	b-BHC	6.398	7.008	3595313	2283444	52.700	37.180	
5)	Heptachlor	6.736	7.318	8405407	5450232	51.331	48.146	
6)	d-BHC	6.549	7.266	7766474	4591525	55.329	37.563	
7)	Aldrin	6.979	7.586	9101887	6221471	54.294	46.814	
8)	Heptachlo...	7.443	8.026	7835797	5470146	50.106	46.478	
9)	trans-Chl...	7.539	8.167	8212450	5646923	52.189	46.823	
10)	cis-Chlor...	7.637	8.275	8030912	5477592	51.162	47.291	
11)	Endosulfa...	7.735	8.326	7320456	5098525	51.006	47.411	
12)	4,4'-DDE	7.699	8.384	7295930	4930790	50.578	42.820	
13)	Dieldrin	7.908	8.527	8486261	5724765	52.804	47.809	
14)	Endrin	8.075	8.756	4329604	2741154	35.096	31.708	
15)	4,4'-DDD	8.123	8.802	6044851	3895478	49.791	41.280	
16)	Endosulfa...	8.232	8.905	6424571	4194642	53.073	45.734	
17)	4,4'-DDT	8.322	9.028	4933256	2746594	51.184	45.831	
18)	Endrin Al...	8.524	9.142	5665684	4267054	54.665	53.727	
19)	Endosulfa...	8.828	9.334	6015413	3816738	49.937	45.341	
20)	Methoxychlor	8.659	9.510	2308909	1438840	50.904	50.245	
21)	Endrin Ke...	9.024	9.737	7969912	4543482	55.329	47.488	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.881f	6.536f	19156	6628	BelowCal	2197.568	
25)	Oxychlordane	7.378	7.988	52686	14433	0.207	3277.591	#
26)	2,4'-DDE	7.443	8.167	7835797	5646923	84.483	75.406	
27)	trans-Non...	7.637	8.275f	8030912	5477592	55.605	50.725	
28)	2,4'-DDD	0.000	8.527f	0	5724765	N.D.	88.130	#
29)	2,4'-DDT	8.004	8.802f	16314	3895478	0.217	72.623	#
30)	cis-Nonac...	8.123	8.802	6044851	3895478	39.051	33.695	
31)	Mirex	8.776	9.737	51034	4543482	0.146	67.961	#
32)	Chlordane...	7.699	8.326	7295930	5098525	413.356	352.419	
33)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)	Chlordane...	0.000	9.099	0	120124	N.D.	29.051	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.653f	0	22214	N.D.	19.834	#
37)	Toxaphene...	8.123f	9.028	6044851	2746594	4011.620	2013.537	#
38)	Toxaphene...	8.446f	9.099f	344524	120124	110.766	55.348	#
39)	Toxaphene...	8.659	9.142	2308909	4267054	787.816	1295.785	#
40)	Toxaphene...	0.000	9.334	0	3816738	N.D.	2002.185	#
41)	Toxaphene...	8.993f	9.669f	16492	93747	5.437	46.318	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

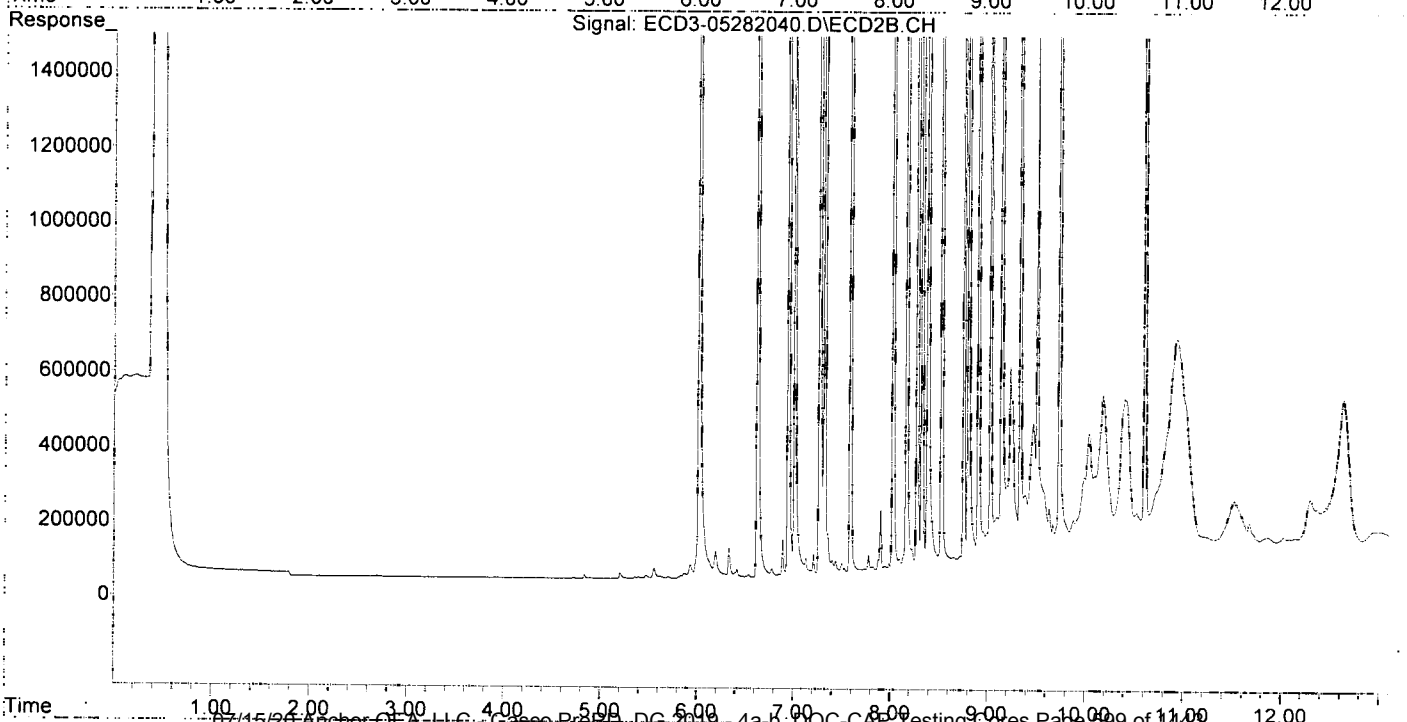
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2020 0:41
Operator : MJB
Sample : 0E28051-CCV5
Misc : A20E232, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:14:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2020 0:58
Operator : MJB
Sample : 0E28051-CCV6
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 16:35:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

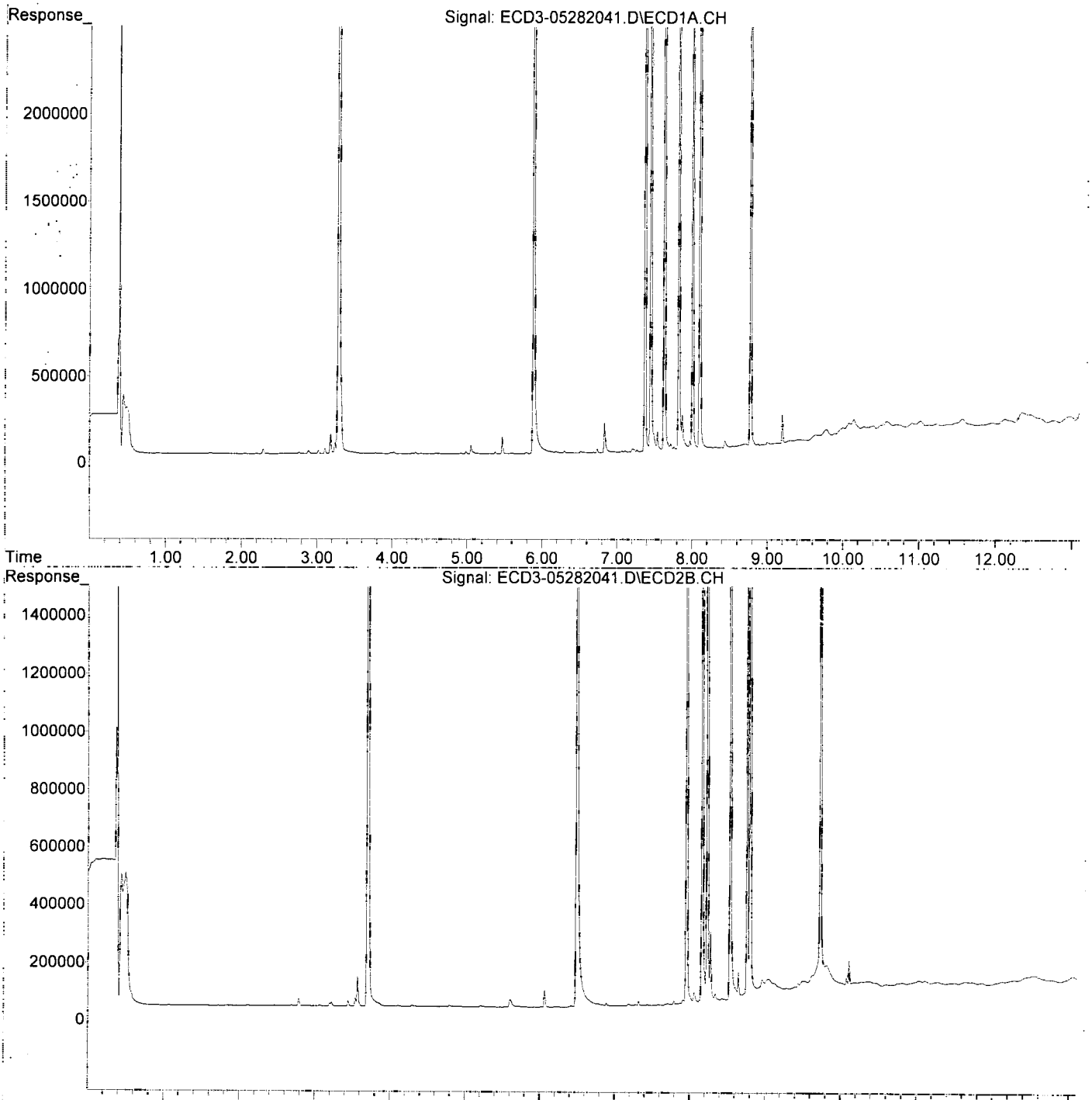
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.470f	0.000	96470	0	0.651	N.D.	#
22)	S DCBP (S)	9.692f	10.599	22247	4086	BelowCal	2280.029	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.298f	0.000	10358	0	0.060	N.D.	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.737	7.318	22451	13576	0.137	0.120	
6)	d-BHC	6.516f	0.000	7266	0	0.052	N.D.	#
7)	Aldrin	6.943f	0.000	3569	0	0.021	N.D.	#
8)	Heptachlo...	7.446	8.059f	4834477	34937	30.914	0.297	#
9)	trans-Chl...	7.540	8.160	107835	3464768	0.685	28.729	#
10)	cis-Chlor...	7.629	8.275	7831813	234213	49.894	2.022	#
11)	Endosulfa...	7.718f	8.339	33153	24668	0.231	0.229	
12)	4,4'-DDE	7.718	0.000	33153	0	0.230	N.D.	#
13)	Dieldrin	7.895	8.535	53336	2937582	0.332	24.532	#
14)	Endrin	8.103f	8.761	8223960	2501651	66.665	28.938	#
15)	4,4'-DDD	8.103f	8.799	8223960	5787865	67.740	61.334	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	9.051f	0	58619	N.D.	1.142	#
18)	Endrin Al...	8.539	9.114f	7032	43834	BelowCal	0.304	
19)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)	Methoxychlor	0.000	9.499	0	42216	N.D.	1.678	#
21)	Endrin Ke...	8.999f	9.728	12612	3568977	0.088	37.303	#
23)	Hexachlor...	3.284f	3.697f	8608769	7345230	50.720	47.061	
24)	Hexachlor...	5.883	6.486f	7105852	4234251	52.484	39.300	
25)	Oxychlordane	7.372	7.954f	6801712	4938596	52.121	50.610	
26)	2,4'-DDE	7.446	8.160f	4834477	3464768	52.563	45.517	
27)	trans-Non...	7.629	8.230f	7831813	5386001	54.229	49.850	
28)	2,4'-DDD	7.822	8.535f	4189482	2937582	51.051	44.447	
29)	2,4'-DDT	8.006	8.760f	4032254	2504935	53.564	46.699m	
30)	cis-Nonac...	8.103	8.799f	8223960	5787865	53.079	50.517	
31)	Mirex	8.777	9.728f	4903562	3568977	49.510	53.068	
32)	Chlordane...	7.718	8.339	33153	24668	1.878	1.705	
33)	Chlordane...	7.822	8.430	4189482	5140	202.175	0.416	#
34)	Chlordane...	0.000	9.114	0	43834	N.D.	7.847	#
35)	Chlordane...	3.980	0.000	5050	0	NoCal	N.D.	
36)	Toxaphene...	7.822	8.648f	4189482	92151	5032.922	82.279	#
37)	Toxaphene...	8.103	9.051	8223960	58619	5457.770	42.974	#
38)	Toxaphene...	8.438	9.051f	38644	58619	12.424	27.009	#
39)	Toxaphene...	0.000	9.114f	0	43834	N.D.	3.976	#
40)	Toxaphene...	8.878	0.000	8531	0	3.622	N.D.	#
41)	Toxaphene...	8.999f	9.728f	12612	3568977	4.158	1763.335	#
42)	Toxaphene...	3.980	0.000	5050	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2020 0:58
Operator : MJB
Sample : 0E28051-CCV6
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

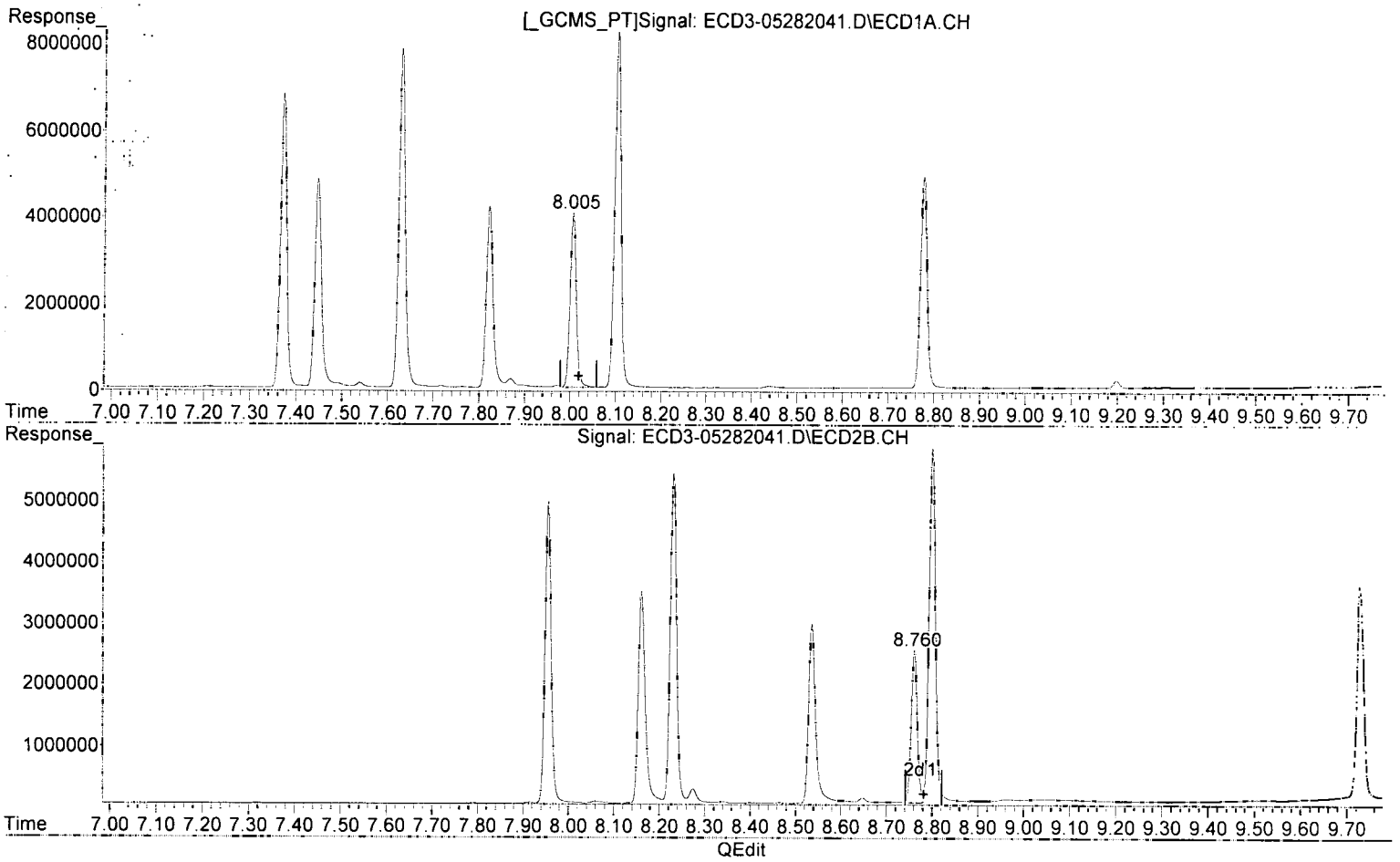
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 01 16:35:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2020 0:58
Operator : MJB
Sample : 0E28051-CCV6
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:14:10 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

8.006min 53.564 ng/mL

response 4032254

MJB 6/1/20

(29) 2,4'-DDT #2

8.760min 46.699 ng/mL m

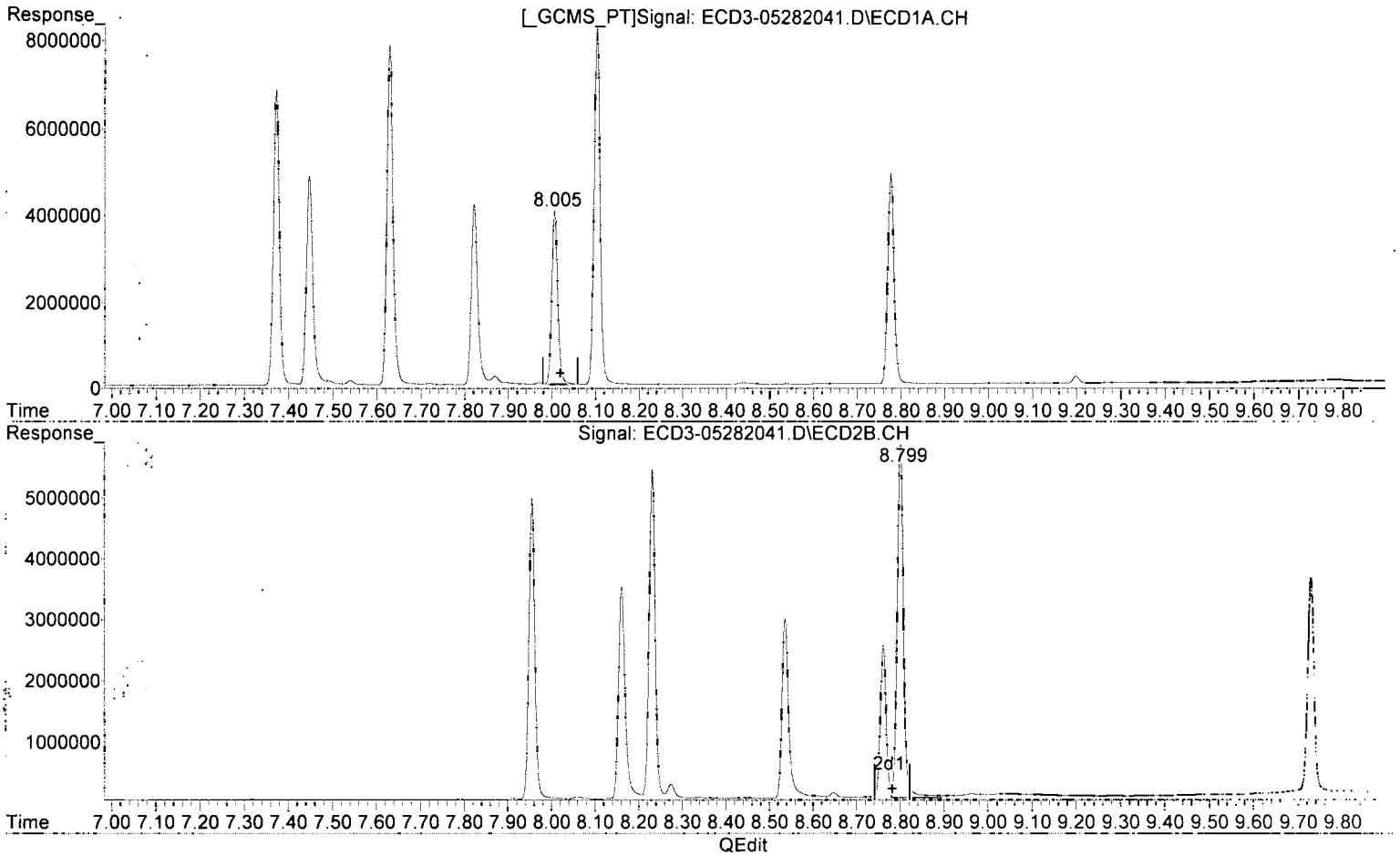
response 2504935

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2020 0:58
Operator : MJB
Sample : 0E28051-CCV6
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:14:10 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

8.006min 53.564 ng/mL

response 4032254

MJB 6/1/20

(29) 2,4'-DDT #2

8.799min 107.903 ng/mL

response 5787865

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2020 0:58
Operator : MJB
Sample : 0E28051-CCV6
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:14:10 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

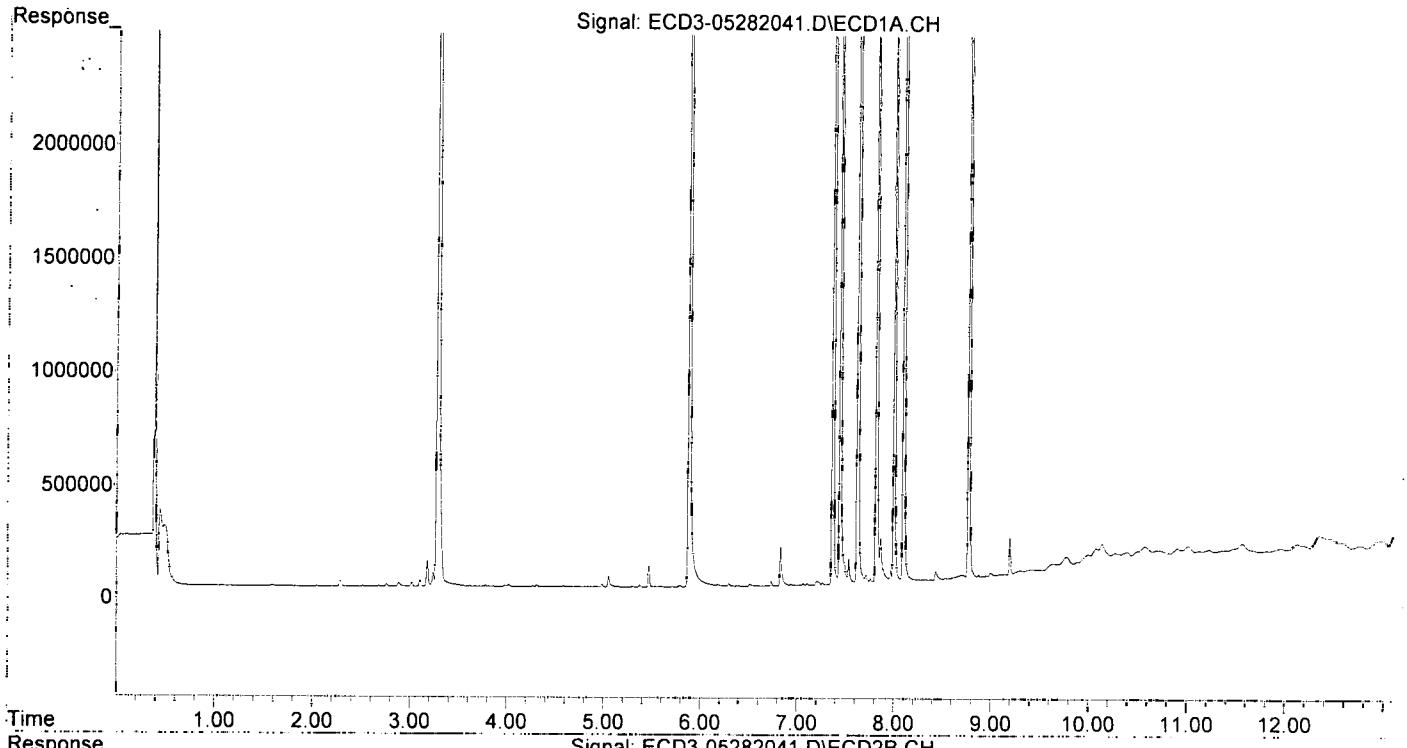
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.470f	0.000	96470	0	0.651	N.D.	#
22)	S DCBP (S)	9.692f	10.599	22247	4086	BelowCal	2280.029	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.298f	0.000	10358	0	0.060	N.D.	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.737	7.318	22451	13576	0.137	0.120	
6)	d-BHC	6.516f	0.000	7266	0	0.052	N.D.	#
7)	Aldrin	6.943f	0.000	3569	0	0.021	N.D.	#
8)	Heptachlo...	7.446	8.059f	4834477	34937	30.914	0.297	#
9)	trans-Chl...	7.540	8.160	107835	3464768	0.685	28.729	#
10)	cis-Chlor...	7.629	8.275	7831813	234213	49.894	2.022	#
11)	Endosulfa...	7.718f	8.339	33153	24668	0.231	0.229	
12)	4,4'-DDE	7.718	0.000	33153	0	0.230	N.D.	#
13)	Dieldrin	7.895	8.535	53336	2937582	0.332	24.532	#
14)	Endrin	8.103f	8.761	8223960	2501651	66.665	28.938	#
15)	4,4'-DDD	8.103f	8.799	8223960	5787865	67.740	61.334	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	9.051f	0	58619	N.D.	1.142	#
18)	Endrin Al...	8.539	9.114f	7032	43834	BelowCal	0.304	
19)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)	Methoxychlor	0.000	9.499	0	42216	N.D.	1.678	#
21)	Endrin Ke...	8.999f	9.728	12612	3568977	0.088	37.303	#
23)	Hexachlor...	3.284f	3.697f	8608769	7345230	50.720	47.061	
24)	Hexachlor...	5.883	6.486f	7105852	4234251	52.484	39.300	
25)	Oxychlordane	7.372	7.954f	6801712	4938596	52.121	50.610	
26)	2,4'-DDE	7.446	8.160f	4834477	3464768	52.563	45.517	
27)	trans-Non...	7.629	8.230f	7831813	5386001	54.229	49.850	
28)	2,4'-DDD	7.822	8.535f	4189482	2937582	51.051	44.447	
29)	2,4'-DDT	8.006	8.799	4032254	5787865	53.564	107.903	#
30)	cis-Nonac...	8.103	8.799f	8223960	5787865	53.079	50.517	
31)	Mirex	8.777	9.728f	4903562	3568977	49.510	53.068	
32)	Chlordane...	7.718	8.339	33153	24668	1.878	1.705	
33)	Chlordane...	7.822	8.430	4189482	5140	202.175	0.416	#
34)	Chlordane...	0.000	9.114	0	43834	N.D.	7.847	#
35)	Chlordane...	3.980	0.000	5050	0	NoCal	N.D.	
36)	Toxaphene...	7.822	8.648f	4189482	92151	5032.922	82.279	#
37)	Toxaphene...	8.103	9.051	8223960	58619	5457.770	42.974	#
38)	Toxaphene...	8.438	9.051f	38644	58619	12.424	27.009	#
39)	Toxaphene...	0.000	9.114f	0	43834	N.D.	3.976	#
40)	Toxaphene...	8.878	0.000	8531	0	3.622	N.D.	#
41)	Toxaphene...	8.999f	9.728f	12612	3568977	4.158	1763.335	#
42)	Toxaphene...	3.980	0.000	5050	0	NoCal	N.D.	

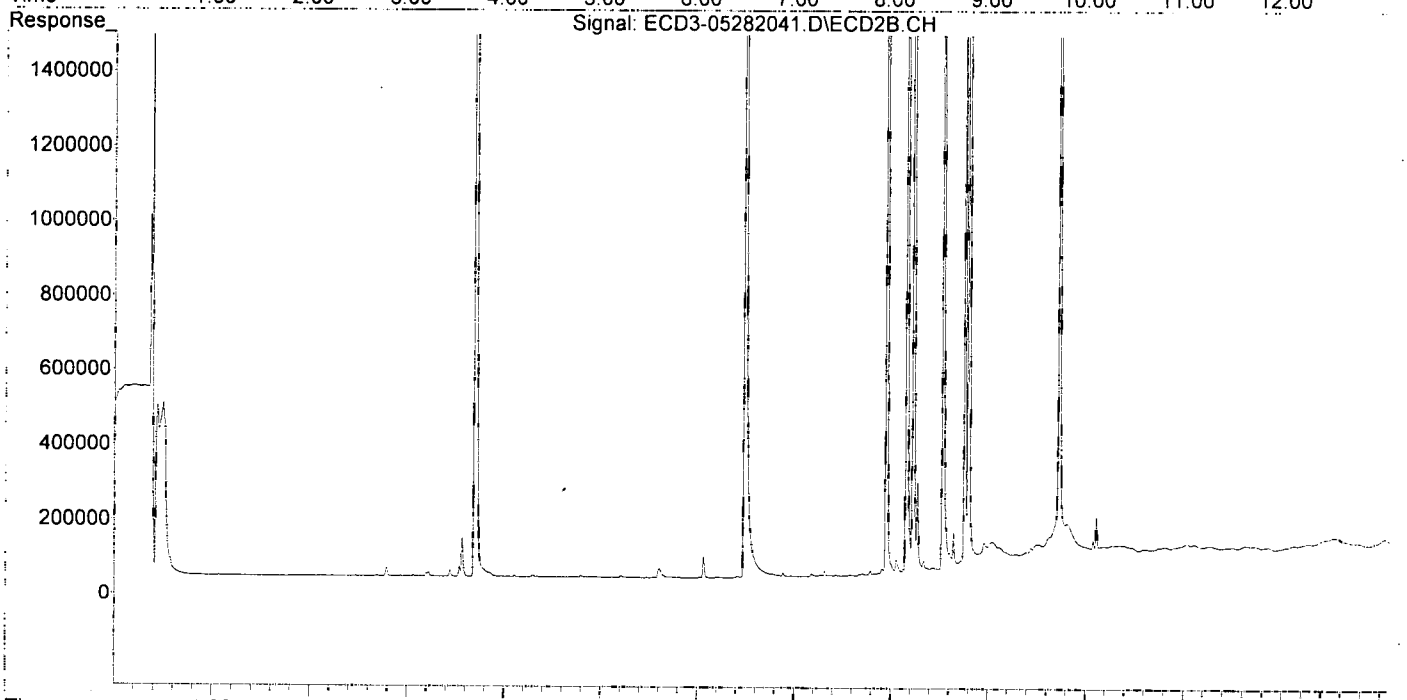
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2020 0:58
Operator : MJB
Sample : 0E28051-CCV6
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:14:10 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2020 1:15
Operator : MJB
Sample : 0E28051-CCB3
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:14:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/1/20

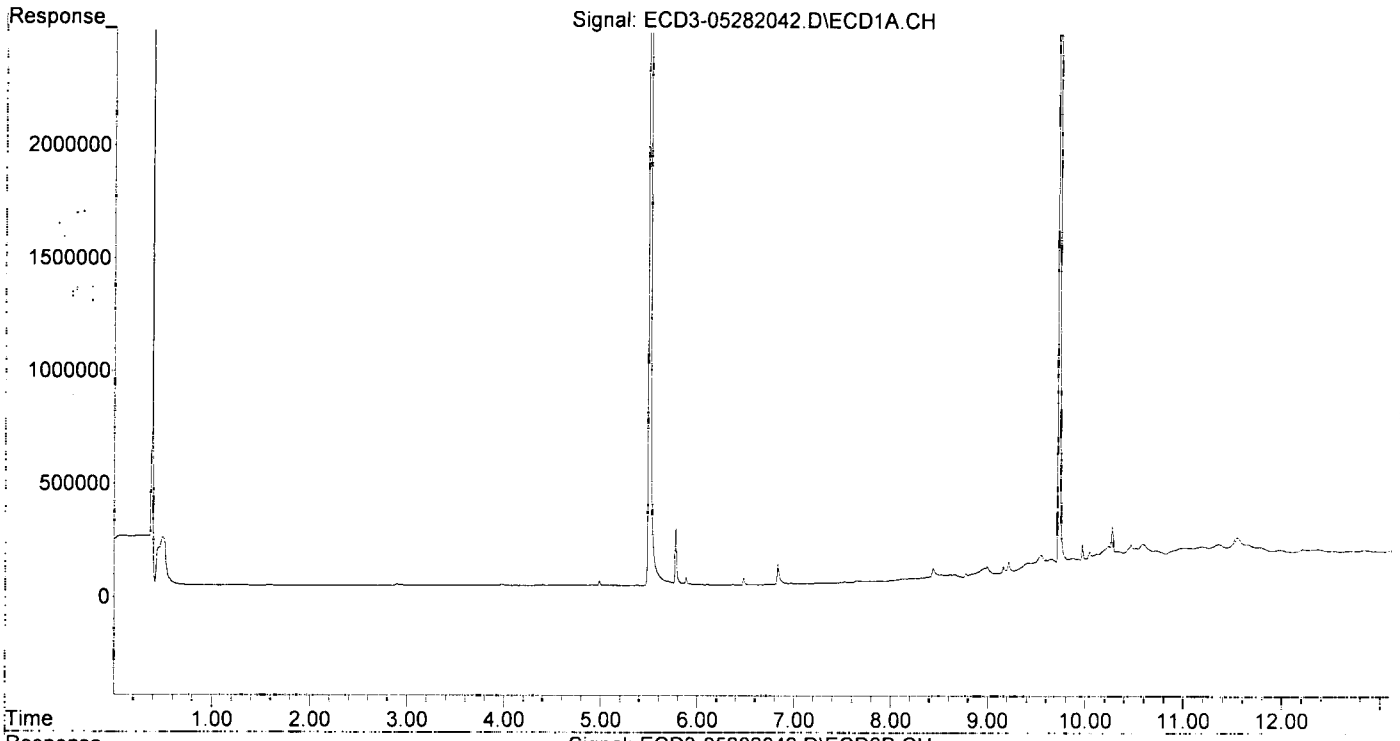
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.499	6.016	14764073	8743914	99.685	80.092	
22)	S DCBP (S)	9.729	10.609	11324250	6649111	102.900	102.937	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	0.000	0.000	0	0	N.D.	N.D.	
10)	cis-Chlor...	7.649	0.000	5080	0	0.032	N.D.	#
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)	4,4'-DDE	7.686	0.000	1770	0	0.012	N.D.	#
13)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)	Endrin	0.000	8.768	0	1543	N.D.	0.018	#
15)	4,4'-DDD	8.142	8.768f	3409	1543	0.028	0.016	#
16)	Endosulfa...	0.000	8.913	0	1942	N.D.	0.021	#
17)	4,4'-DDT	0.000	9.050	0	2659	N.D.	0.119	#
18)	Endrin Al...	8.526	0.000	5045	0	BelowCal	N.D.	
19)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)	Methoxychlor	8.663	9.502	8489	27751	0.245	1.119	#
21)	Endrin Ke...	8.996f	0.000	35710	0	0.248	N.D.	#
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.884	0.000	26094	0	BelowCal	N.D.	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
27)	trans-Non...	7.649	0.000	5080	0	BelowCal	N.D.	
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	0.000	8.768	0	1543	N.D.	0.029	#
30)	cis-Nonac...	8.142f	0.000	3409	0	BelowCal	N.D.	
31)	Mirex	8.776	0.000	16071	0	7125.722	N.D.	#
32)	Chlordane...	7.686f	0.000	1770	0	0.100	N.D.	#
33)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
35)	Chlordane...	3.974	0.000	4401	0	NoCal	N.D.	
36)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)	Toxaphene...	8.142f	9.050	3409	2659	2.263	1.949	
38)	Toxaphene...	8.439f	9.050f	36664	2659	11.788	1.225	#
39)	Toxaphene...	8.663	0.000	8489	0	BelowCal	N.D.	
40)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
41)	Toxaphene...	8.974	0.000	28875	0	9.519	N.D.	#
42)	Toxaphene...	3.974	0.000	4401	0	NoCal	N.D.	

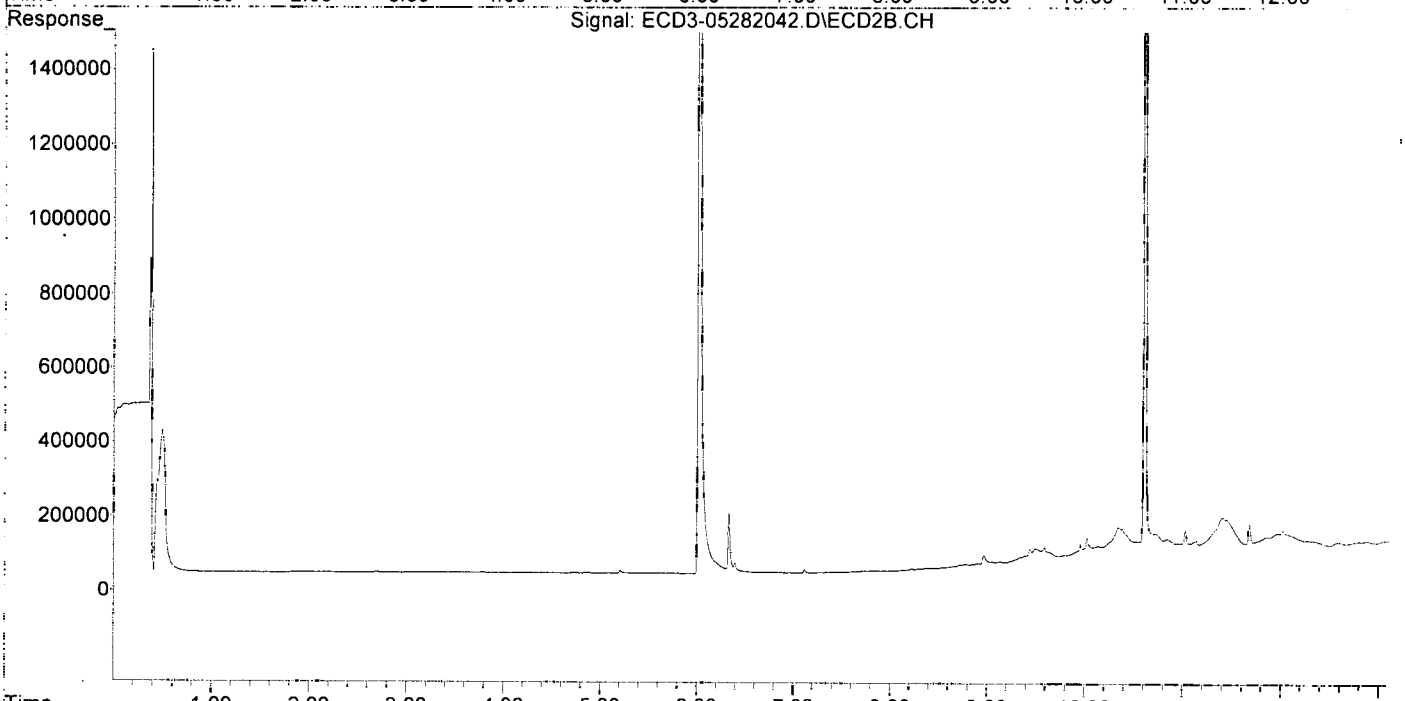
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-05\0E28051\
Data File : ECD3-05282042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2020 1:15
Operator : MJB
Sample : 0E28051-CCB3
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: May 29 11:14:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RT9.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Organochloride Pesticides by EPA 8081B
Calibration Data

Sequence 0D10031 (Cal ID A0D1308) DualECD3

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0D10031** Instrument: **DUALECD3**

Date: **04/10/20 10:58** Calibration: **A0D1308**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0D10031-BKD1	Water	QC	QC				A20C091
2	0D10031-ICB1	Water	QC	QC				A20C404
3	0D10031-CAL1	Water	QC	QC				A20D133
4	0D10031-CAL2	Water	QC	QC				A20D134
5	0D10031-CAL3	Water	QC	QC				A20C179
6	0D10031-CAL4	Water	QC	QC				A20C180
7	0D10031-CAL5	Water	QC	QC				A20C181
8	0D10031-CAL6	Water	QC	QC				A20C182
9	0D10031-CAL7	Water	QC	QC				A20C183
10	0D10031-CAL8	Water	QC	QC				A20C184
11	0D10031-CAL9	Water	QC	QC				A20C177
12	0D10031-IBL1	Water	QC	QC				
13	0D10031-ICV1	Water	QC	QC				A20C164
14	0D10031-CALA	Water	QC	QC				A20D135
15	0D10031-CALB	Water	QC	QC				A20C353
16	0D10031-CALC	Water	QC	QC				A20C354
17	0D10031-CALD	Water	QC	QC				A20C355
18	0D10031-CALE	Water	QC	QC				A20C356
19	0D10031-CALF	Water	QC	QC				A20C357
20	0D10031-CALG	Water	QC	QC				A20C358
21	0D10031-CALH	Water	QC	QC				A20C359
22	0D10031-CALI	Water	QC	QC				A20C352
23	0D10031-IBL2	Water	QC	QC				
24	0D10031-ICV2	Water	QC	QC				A20C360
25	0D10031-CALJ	Water	QC	QC				A20D136
26	0D10031-CALK	Water	QC	QC				A19K307
27	0D10031-CALL	Water	QC	QC				A19K308
28	0D10031-CALM	Water	QC	QC				A19K309
29	0D10031-CALN	Water	QC	QC				A19K310
30	0D10031-CALO	Water	QC	QC				A19K311
31	0D10031-CALP	Water	QC	QC				A19K306
32	0D10031-IBL3	Water	QC	QC				
33	0D10031-ICV3	Water	QC	QC				A19K312
34	0D10031-CALQ	Water	QC	QC				A20D137
35	0D10031-CALR	Water	QC	QC				A19J417
36	0D10031-CALS	Water	QC	QC				A19J418
37	0D10031-CALT	Water	QC	QC				A19J419
38	0D10031-CALU	Water	QC	QC				A19J420
39	0D10031-CALV	Water	QC	QC				A19J421
40	0D10031-CALW	Water	QC	QC				A19J416
41	0D10031-IBL4	Water	QC	QC				
42	0D10031-ICV4	Water	QC	QC				A19J422

Comments:

Data Entered By: MJB 4/13/20

Data Reviewed By: [illegible] 4/14/20

Calibration Status Report DUALECD3

Method Path : C:\msdchem\3\METHODS\
Method File : ECD3_QUANTPEST_200410.M
Title : Instrument: DualECD3
Last Update : Mon Apr 13 12:07:09 2020
Response Via : Initial Calibration

AOD1336

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102036.D
2	2	50	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102037.D
3	3	100	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102038.D
4	4	200	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102039.D
5	5	500	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102040.D
6	6	1000	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102041.D
7	7	2000	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102042.D
8	8	-1	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102023.D
9	9	-1	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102024.D

MJB 4/13/20

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Apr 13 12:06 2020	Apr 13 11:59 2020	10 Apr 2020 21:14
2	2	Apr 13 12:06 2020	Apr 13 11:59 2020	10 Apr 2020 21:31
3	3	Apr 13 12:06 2020	Apr 13 12:00 2020	10 Apr 2020 21:48
4	4	Apr 13 12:06 2020	Apr 13 12:00 2020	10 Apr 2020 22:05
5	5	Apr 13 12:06 2020	Apr 13 11:57 2020	10 Apr 2020 22:22
6	6	Apr 13 12:07 2020	Apr 13 12:01 2020	10 Apr 2020 22:39
7	7	Apr 13 12:07 2020	Apr 13 12:01 2020	10 Apr 2020 22:56
8	8	Apr 13 12:04 2020	Apr 13 11:47 2020	10 Apr 2020 17:31
9	9	Apr 13 12:05 2020	Apr 13 11:48 2020	10 Apr 2020 17:49

ECD3_QUANTPEST_200410.M Mon Apr 13 14:58:38 2020

Response Factor Report DUALECD3

Method Path : C:\msdchem\3\METHODS\
Method File : ECD3_QUANTPEST_200410.M
Title : Instrument: DualECD3
Last Update : Mon Apr 13 12:07:09 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD3-04102036.D 2 =ECD3-04102037.D 3 =ECD3-04102038.D
4 =ECD3-04102039.D 5 =ECD3-04102040.D 6 =ECD3-04102041.D

MJB 4/13/20

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)	1.715	1.506	1.473	1.455	1.450	1.448	1.481	E5	6.31
2)		a-BHC	2.122	1.988	1.930	2.024	1.992	1.988	2.023	E5	3.34
3)		g-BHC	1.824	1.630	1.654	1.730	1.722	1.717	1.727	E5	3.88
4)		b-BHC	7.442	6.610	6.673	6.535	6.218	6.724	6.822	E4	6.38
5)		Heptachlor	1.768	1.623	1.559	1.599	1.629	1.594	1.637	E5	4.45
6)		d-BHC	1.325	1.233	1.290	1.339	1.349	1.408	1.404	E5	10.13
7)		Aldrin	1.841	1.654	1.655	1.676	1.665	1.648	1.676	E5	4.23
8)		Heptachlor Ex...	1.827	1.604	1.559	1.561	1.525	1.502	1.564	E5	6.85
9)		trans-Chlordane	1.756	1.604	1.544	1.559	1.503	1.526	1.574	E5	5.00
10)		cis-Chlordane	1.979	1.624	1.550	1.568	1.485	1.481	1.570	E5	10.41
11)		Endosulfan I	1.649	1.454	1.421	1.425	1.386	1.387	1.435	E5	6.02
12)		4,4'-DDE	1.533	1.324	1.323	1.426	1.382	1.470	1.443	E5	6.21
13)		Dieldrin	1.733	1.607	1.560	1.611	1.588	1.595	1.607	E5	3.58
14)		Endrin	1.267	1.188	1.166	1.202	1.200	1.219	1.234	E5	4.79
15)		4,4'-DDD	1.353	1.183	1.146	1.161	1.144	1.223	1.214	E5	6.23
16)		Endosulfan II	1.342	1.197	1.167	1.179	1.208	1.186	1.211	E5	4.83
17)		4,4'-DDT	0.748	0.735	0.727	0.805	0.875	0.983	0.915	E5	19.93
18)		Endrin Aldehyde	1.471	1.273	1.189	1.091	1.043	1.029	1.131	E5	13.77
19)		Endosulfan Su...	1.449	1.264	1.166	1.161	1.142	1.136	1.205	E5	8.32
20)		Methoxychlor	3.882	3.901	3.715	4.095	4.277	4.459	4.409	E4	15.01
21)		Endrin Ketone	1.669	1.529	1.427	1.377	1.381	1.378	1.440	E5	6.91
22)	S	DCBP (S)	1.575	1.354	1.248	1.174	1.131	1.091	1.203	E5	14.04
23)		Hexachlorobut...	2.246	2.110	1.907	1.716	1.690	1.695	1.818	E5	12.52
24)		Hexachloroben...	1.818	1.715	1.475	1.349	1.319	1.364	1.462	E5	12.33
25)		Oxychlordane	1.742	1.677	1.480	1.294	1.300	1.312	1.410	E5	12.87
26)		2,4'-DDE	1.198	1.144	0.989	0.898	0.889	0.948	0.985	E5	11.23
27)		trans-Nonachlor	1.945	1.897	1.599	1.444	1.431	1.445	1.566	E5	13.43
28)		2,4'-DDD	1.131	1.060	0.937	0.805	0.810	0.840	0.893	E5	13.79
29)		2,4'-DDT	8.331	7.798	6.699	6.879	6.654	7.564	7.528	E4	8.60
30)		cis-Nonachlor	2.119	1.973	1.711	1.560	1.525	1.573	1.680	E5	12.96
31)		Mirex	1.648	1.479	1.245	1.043	0.977	0.978	1.142	E5	22.68
32)		Chlordane (1)	1.819	1.720	1.921	1.773	1.651	1.630	1.765	E4	5.96
33)		Chlordane (2)	2.244	2.041	2.178	2.064	1.970	1.892	2.072	E4	5.79
34)		Chlordane (3)	5.553	5.048	5.253	5.557	5.280	4.919	5.321	E3	5.15
35)		Chlordane - AVE							0.000		-1.00
36)		Toxaphene (1)	9.912	8.400	8.331	7.673	8.012	7.939	8.324	E2	8.91
37)		Toxaphene (2)	1.556	1.650	1.565	1.430	1.458	1.454	1.507	E3	5.60
38)		Toxaphene (3)	3.245	3.178	3.117	2.931	3.081	3.093	3.110	E3	3.11
39)		Toxaphene (4)	4.482	3.166	3.038	2.826	2.886	2.982	3.210	E3	17.84
40)		Toxaphene (5)	2.349	2.383	2.296	2.196	2.344	2.385	2.355	E3	4.31
41)		Toxaphene (6)	3.417	3.020	2.911	2.796	2.936	3.017	3.033	E3	6.58
42)		Toxaphene - AVE							0.000		-1.00

Signal #2 Calibration Files
1 =ECD3-04102036.D 2 =ECD3-04102037.D 3 =ECD3-04102038.D
4 =ECD3-04102039.D 5 =ECD3-04102040.D 6 =ECD3-04102041.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)	1.460	1.272	1.211	1.204	1.165	1.117	1.179	E5	11.11
2)		a-BHC	1.749	1.602	1.591	1.619	1.592	1.557	1.570	E5	5.85
3)		g-BHC	1.518	1.374	1.355	1.346	1.349	1.345	1.347	E5	5.63
4)		b-BHC	7.434	6.625	6.396	6.059	5.831	5.767	6.142	E4	9.57
5)		Heptachlor	1.273	1.161	1.117	1.129	1.106	1.108	1.132	E5	5.02
6)		d-BHC	1.327	1.184	1.170	1.242	1.223	1.241	1.222	E5	3.91
7)		Aldrin	1.523	1.368	1.345	1.400	1.316	1.299	1.329	E5	7.22
8)		Heptachlor Ex...	1.397	1.220	1.205	1.182	1.175	1.134	1.177	E5	8.28
9)		trans-Chlordane	1.423	1.265	1.203	1.211	1.202	1.191	1.206	E5	8.11
10)		cis-Chlordane	1.402	1.245	1.176	1.171	1.132	1.110	1.158	E5	9.62
11)		Endosulfan I	1.317	1.101	1.099	1.092	1.056	1.045	1.075	E5	9.58

Response Factor Report DUALECD3

Method Path : C:\msdchem\3\METHODS\
Method File : ECD3_QUANTPEST_200410.M
Title : Instrument: DualECD3
Last Update : Mon Apr 13 12:07:09 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD3-04102036.D 2 =ECD3-04102037.D 3 =ECD3-04102038.D
4 =ECD3-04102039.D 5 =ECD3-04102040.D 6 =ECD3-04102041.D

		Compound	1	2	3	4	5	6	Avg		%RSD
12)		4,4'-DDE	1.287	1.160	1.155	1.170	1.137	1.151	1.152	E5	5.16
13)		Dieldrin	1.380	1.209	1.184	1.205	1.197	1.168	1.197	E5	6.28
14)		Endrin	9.416	8.680	8.356	8.395	8.620	8.515	8.645	E4	3.83
15)		4,4'-DDD	1.174	1.015	0.922	0.933	0.890	0.885	0.944	E5	10.22
16)		Endosulfan II	1.105	0.952	0.913	0.906	0.876	0.881	0.917	E5	8.21
17)		4,4'-DDT	4.956	4.972	4.466	5.203	5.787	5.986	5.810	E4	17.60
18)		Endrin Aldehyde	1.175	1.001	0.959	0.848	0.811	0.781	0.876	E5	16.09
19)		Endosulfan Su...	1.003	0.883	0.832	0.814	0.797	0.808	0.842	E5	7.95
20)		Methoxychlor	2.382	2.492	2.341	2.548	2.694	2.757	2.779	E4	15.82
21)		Endrin Ketone	1.147	1.006	0.945	0.928	0.942	0.900	0.957	E5	8.16
22)	S	DCBP (S)	1.009	0.816	0.766	0.729	0.702	0.664	0.732	E5	16.63
23)		Hexachlorobut...	2.255	2.102	1.864	1.697	1.633	1.535	1.706	E5	18.54
24)		Hexachloroben...	1.572	1.451	1.242	1.107	1.102	1.096	1.183	E5	16.97
25)		Oxychlordane	1.359	1.318	1.131	0.981	0.993	0.985	1.067	E5	15.43
26)		2,4'-DDE	1.095	1.020	0.879	0.791	0.776	0.775	0.835	E5	16.34
27)		trans-Nonachlor	1.531	1.454	1.257	1.114	1.089	1.107	1.183	E5	16.06
28)		2,4'-DDD	1.012	0.933	0.791	0.684	0.666	0.659	0.740	E5	19.10
29)		2,4'-DDT	6.487	5.694	4.830	4.808	4.722	5.327	5.364	E4	10.41
30)		cis-Nonachlor	1.663	1.533	1.315	1.188	1.133	1.176	1.261	E5	16.23
31)		Mirex	1.209	1.009	0.836	0.739	0.672	0.688	0.790	E5	24.93
32)		Chlordane (1)	1.566	1.470	1.637	1.452	1.352	1.294	1.447	E4	8.53
33)		Chlordane (2)	1.389	1.266	1.360	1.254	1.131	1.110	1.236	E4	9.11
34)		Chlordane (3)	5.139	3.911	3.957	3.727	3.518	3.350	3.909	E3	14.90
35)		Chlordane - AVE							0.000		-1.00
36)		Toxaphene (1)	1.144	1.226	1.168	1.043	1.098	1.091	1.120	E3	5.64
37)		Toxaphene (2)	1.496	1.451	1.354	1.243	1.322	1.318	1.364	E3	6.25
38)		Toxaphene (3)	2.612	2.290	2.111	1.974	2.062	2.069	2.170	E3	10.00
39)		Toxaphene (4)	6.257	3.808	3.460	3.198	3.261	3.309	3.806	E3	28.89
40)		Toxaphene (5)	2.393	1.988	1.860	1.779	1.865	1.879	1.952	E3	10.46
41)		Toxaphene (6)	2.434	2.064	1.943	1.851	1.918	1.938	2.024	E3	9.56
42)		Toxaphene - AVE							0.000		-1.00

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

Compound List Report DUALECD3

Method Path : C:\msdchem\3\METHODS\
Method File : ECD3_QUANTPEST_200410.M
Title : Instrument: DualECD3
Last Update : Mon Apr 13 12:07:09 2020
Response Via : Initial Calibration

Total Cpnds : 85

MJP 4/13/20

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.562	1.000	A	H	R
2		a-BHC	6.108	1.000	A	H	R
3		g-BHC	6.395	1.000	A	H	R
4		b-BHC	6.470	1.000	A	H	R
5		Heptachlor	6.808	1.000	A	H	R
6		d-BHC	6.624	1.000	A	H	R
7		Aldrin	7.053	1.000	A	H	R
8		Heptachlor Expoxide	7.520	1.000	A	H	R
9		trans-Chlordane	7.615	1.000	A	H	R
10		cis-Chlordane	7.713	1.000	A	H	R
11		Endosulfan I	7.814	1.000	A	H	R
12		4,4'-DDE	7.772	1.000	A	H	R
13		Dieldrin	7.987	1.000	A	H	R
14		Endrin	8.154	1.000	A	H	R
15		4,4'-DDD	8.200	1.000	A	H	R
16		Endosulfan II	8.313	1.000	A	H	R
17		4,4'-DDT	8.398	1.000	Q	H	R
18		Endrin Aldehyde	8.606	1.000	Q	H	R
19		Endosulfan Sulfate	8.912	1.000	A	H	R
20		Methoxychlor	8.737	1.000	Q	H	R
21		Endrin Ketone	9.109	1.000	A	H	R
22	S	DCBP (S)	9.807	1.000	Q	H	R
23		Hexachlorobutadiene	3.341	1.000	Q	H	R
24		Hexachlorobenzene	5.947	1.000	Q	H	R
25		Oxychlordane	7.446	1.000	Q	H	R
26		2,4'-DDE	7.519	1.000	Q	H	R
27		trans-Nonachlor	7.703	1.000	Q	H	R
28		2,4'-DDD	7.896	1.000	Q	H	R
29		2,4'-DDT	8.081	1.000	A	H	R
30		cis-Nonachlor	8.179	1.000	Q	H	R
31		Mirex	8.856	1.000	Q	H	R
32		Chlordane (1)	7.613	1.000	A	H	R
33		Chlordane (2)	7.707	1.000	A	H	R
34		Chlordane (3)	8.264	1.000	A	H	R
35		Chlordane - AVE	3.819	1.000	A	H	R
36		Toxaphene (1)	7.685	1.000	A	H	R
37		Toxaphene (2)	7.982	1.000	A	H	R
38		Toxaphene (3)	8.298	1.000	A	H	R
39		Toxaphene (4)	8.540	1.000	Q	H	R
40		Toxaphene (5)	8.772	1.000	A	H	R
41		Toxaphene (6)	8.842	1.000	A	H	R
42		Toxaphene - AVE	3.821	1.000	A	H	R
43		Signal #2	3.792	1.000	A	H	R
44	S	TCMX (S) #2	6.061	1.000	Q	H	R
45		a-BHC #2	6.674	1.000	A	H	R
46		g-BHC #2	6.993	1.000	A	H	R
47		b-BHC #2	7.057	1.000	A	H	R
48		Heptachlor #2	7.371	1.000	A	H	R
49		d-BHC #2	7.315	1.000	A	H	R
50		Aldrin #2	7.640	1.000	A	H	R
51		Heptachlor Expoxide #2	8.082	1.000	A	H	R
52		trans-Chlordane #2	8.222	1.000	A	H	R
53		cis-Chlordane #2	8.331	1.000	A	H	R
54		Endosulfan I #2	8.382	1.000	A	H	R
55		4,4'-DDE #2	8.437	1.000	A	H	R
56		Dieldrin #2	8.584	1.000	A	H	R

57		Endrin #2	8.814	1.000	A	H	R
58		4,4'-DDD #2	8.856	1.000	A	H	R
59		Endosulfan II #2	8.962	1.000	A	H	R
60		4,4'-DDT #2	9.084	1.000	Q	H	R
61		Endrin Aldehyde #2	9.201	1.000	Q	H	R
62		Endosulfan Sulfate #2	9.392	1.000	A	H	R
63		Methoxychlor #2	9.567	1.000	Q	H	R
64		Endrin Ketone #2	9.797	1.000	A	H	R
65	S	DCBP (S) #2	10.678	1.000	Q	H	R
66		Hexachlorobutadiene #2	3.735	1.000	Q	H	R
67		Hexachlorobenzene #2	6.532	1.000	Q	H	R
68		Oxychlordane #2	8.009	1.000	Q	H	R
69		2,4'-DDE #2	8.214	1.000	Q	H	R
70		trans-Nonachlor #2	8.285	1.000	Q	H	R
71		2,4'-DDD #2	8.591	1.000	Q	H	R
72		2,4'-DDT #2	8.816	1.000	A	H	R
73		cis-Nonachlor #2	8.856	1.000	Q	H	R
74		Mirex #2	9.789	1.000	Q	H	R
75		Chlordane (1) #2	8.220	1.000	A	H	R
76		Chlordane (2) #2	8.329	1.000	A	H	R
77		Chlordane (3) #2	8.996	1.000	Q	H	R
78		Chlordane - AVE #2	3.789	1.000	A	H	R
79		Toxaphene (1) #2	8.556	1.000	A	H	R
80		Toxaphene (2) #2	8.906	1.000	A	H	R
81		Toxaphene (3) #2	8.941	1.000	A	H	R
82		Toxaphene (4) #2	9.009	1.000	Q	H	R
83		Toxaphene (5) #2	9.187	1.000	Q	H	R
84		Toxaphene (6) #2	9.572	1.000	A	H	R
85		Toxaphene - AVE #2	3.789	1.000	A	H	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

ECD3_QUANTPEST_200410.M Mon Apr 13 14:58:48 2020

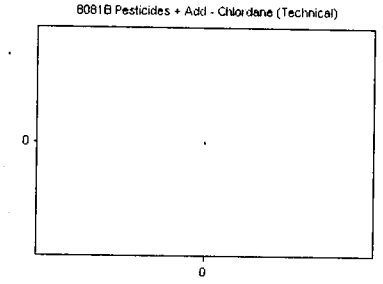
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Chlordane (Technical)

Curve Fit: **AVERAGE RF**

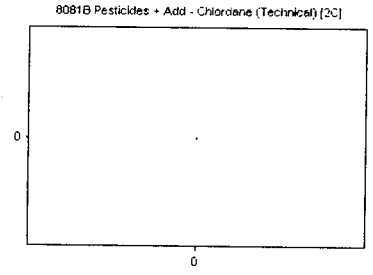


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	0	0.000	0.00
0D10031-CALK	50	0	0.000	0.00
0D10031-CALL	100	0	0.000	0.00
0D10031-CALM	200	0	0.000	0.00
0D10031-CALN	500	0	0.000	0.00
0D10031-CALO	1000	0	0.000	0.00
0D10031-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Chlordane (Technical) [2C]

Curve Fit: **AVERAGE RF**

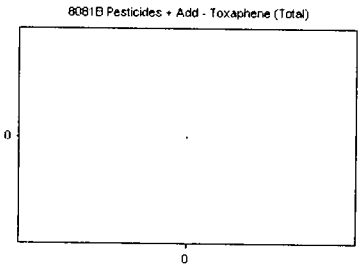


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	0	0.000	0.00
0D10031-CALK	50	0	0.000	0.00
0D10031-CALL	100	0	0.000	0.00
0D10031-CALM	200	0	0.000	0.00
0D10031-CALN	500	0	0.000	0.00
0D10031-CALO	1000	0	0.000	0.00
0D10031-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total)

Curve Fit: **AVERAGE RF**

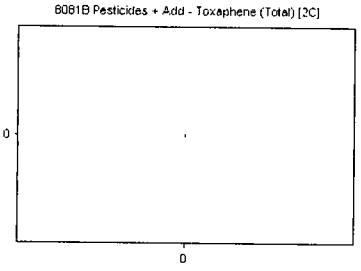


Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	0	0.000	0.00
0D10031-CALR	50	0	0.000	0.00
0D10031-CALS	100	0	0.000	0.00
0D10031-CALT	200	0	0.000	0.00
0D10031-CALU	500	0	0.000	0.00
0D10031-CALV	1000	0	0.000	0.00
0D10031-CALW	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	0	0.000	0.00
0D10031-CALR	50	0	0.000	0.00
0D10031-CALS	100	0	0.000	0.00
0D10031-CALT	200	0	0.000	0.00
0D10031-CALU	500	0	0.000	0.00
0D10031-CALV	1000	0	0.000	0.00
0D10031-CALW	2000	0	0.000	0.00

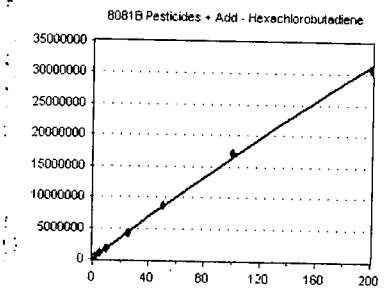
AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Hexachlorobutadiene

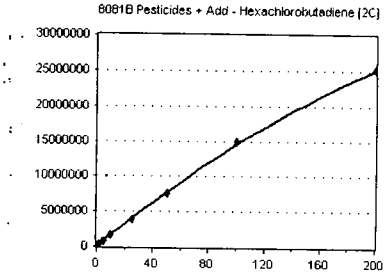


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	112302	224604.000	3.34
0D10031-CALB	1	210953	210953.000	3.34
0D10031-CALC	2	381441	190720.500	3.34
0D10031-CALD	5	857802	171560.400	3.34
0D10031-CALE	10	1689587	168958.700	3.34
0D10031-CALF	25	4236498	169459.900	3.34
0D10031-CALG	50	8735674	174713.500	3.34
0D10031-CALH	100	1.720714E+07	172071.400	3.34
0D10031-CALI	200	3.065493E+07	153274.700	3.34

AVE RF **181812.900** RF RSD **12.52** AVE RT **3.34**

Hexachlorobutadiene [2C]

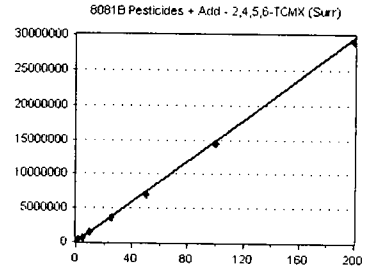


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	112755	225510.000	3.74
0D10031-CALB	1	210162	210162.000	3.74
0D10031-CALC	2	372830	186415.000	3.74
0D10031-CALD	5	848292	169658.400	3.74
0D10031-CALE	10	1632647	163264.700	3.74
0D10031-CALF	25	3836415	153456.600	3.74
0D10031-CALG	50	7661028	153220.600	3.74
0D10031-CALH	100	1.484303E+07	148430.300	3.74
0D10031-CALI	200	2.50979E+07	125489.500	3.74

AVE RF **170623.000** RF RSD **18.54** AVE RT **3.74**

2,4,5,6-TCMX (Surr)

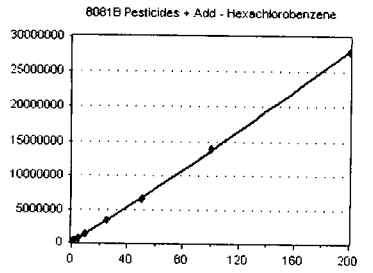


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	85749	171498.000	5.56
0D10031-CAL2	1	150599	150599.000	5.56
0D10031-CAL3	2	294629	147314.500	5.56
0D10031-CAL4	5	727524	145504.800	5.56
0D10031-CAL5	10	1449955	144995.500	5.56
0D10031-CAL6	25	3620730	144829.200	5.56
0D10031-CAL7	50	6908561	138171.200	5.56
0D10031-CAL8	100	1.450896E+07	145089.600	5.56
0D10031-CAL9	200	2.899233E+07	144961.700	5.56

AVE RF **148107.100** RF RSD **6.31** AVE RT **5.56**

Hexachlorobenzene



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	90891	181782.000	5.95
0D10031-CALB	1	171487	171487.000	5.95
0D10031-CALC	2	294999	147499.500	5.95
0D10031-CALD	5	674330	134866.000	5.95
0D10031-CALE	10	1319038	131903.800	5.95
0D10031-CALF	25	3410831	136433.200	5.95
0D10031-CALG	50	6661991	133239.800	5.95
0D10031-CALH	100	1.39059E+07	139059.000	5.95
0D10031-CALI	200	2.79172E+07	139586.000	5.95

AVE RF **146206.300** RF RSD **12.33** AVE RT **5.95**

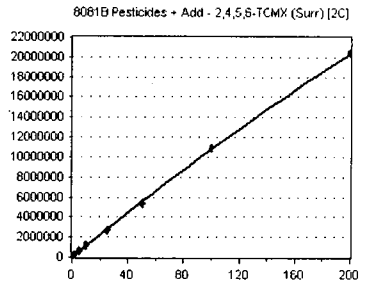
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

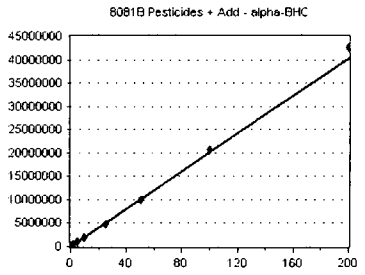


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	73007	146014.000	6.06
0D10031-CAL2	1	127191	127191.000	6.06
0D10031-CAL3	2	242169	121084.500	6.06
0D10031-CAL4	5	601812	120362.400	6.06
0D10031-CAL5	10	1164651	116465.100	6.06
0D10031-CAL6	25	2793596	111743.800	6.06
0D10031-CAL7	50	5350810	107016.200	6.06
0D10031-CAL8	100	1.094267E+07	109426.700	6.06
0D10031-CAL9	200	2.04145E+07	102072.500	6.06

AVE RF **117930.700** RF RSD **11.11** AVE RT **6.06**

alpha-BHC

Curve Fit: **AVERAGE RF**

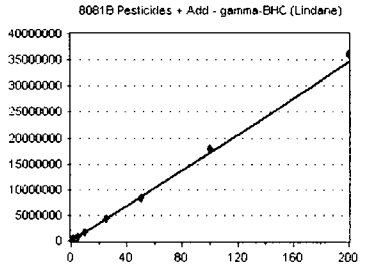


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	106090	212180.000	6.11
0D10031-CAL2	1	198771	198771.000	6.11
0D10031-CAL3	2	386030	193015.000	6.11
0D10031-CAL4	5	1011773	202354.600	6.11
0D10031-CAL5	10	1992062	199206.200	6.11
0D10031-CAL6	25	4970390	198815.600	6.11
0D10031-CAL7	50	9856715	197134.300	6.11
0D10031-CAL8	100	2.069031E+07	206903.100	6.11
0D10031-CAL9	200	4.245424E+07	212271.200	6.11

AVE RF **202294.600** RF RSD **3.34** AVE RT **6.11**

gamma-BHC (Lindane)

Curve Fit: **AVERAGE RF**

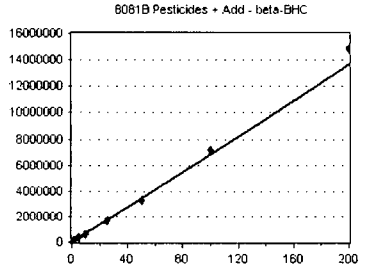


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	91195	182390.000	6.39
0D10031-CAL2	1	162951	162951.000	6.39
0D10031-CAL3	2	330735	165367.500	6.40
0D10031-CAL4	5	864784	172956.800	6.40
0D10031-CAL5	10	1722298	172229.800	6.40
0D10031-CAL6	25	4292566	171702.600	6.40
0D10031-CAL7	50	8390299	167806.000	6.40
0D10031-CAL8	100	1.785213E+07	178521.300	6.40
0D10031-CAL9	200	3.604254E+07	180212.700	6.40

AVE RF **172682.000** RF RSD **3.88** AVE RT **6.39**

beta-BHC

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	37211	74422.000	6.47
0D10031-CAL2	1	66101	66101.000	6.47
0D10031-CAL3	2	133460	66730.000	6.47
0D10031-CAL4	5	326774	65354.800	6.47
0D10031-CAL5	10	621775	62177.500	6.47
0D10031-CAL6	25	1680896	67235.840	6.47
0D10031-CAL7	50	3275829	65516.580	6.47
0D10031-CAL8	100	7197743	71977.430	6.47
0D10031-CAL9	200	1.489687E+07	74484.350	6.47

AVE RF **68222.170** RF RSD **6.38** AVE RT **6.47**

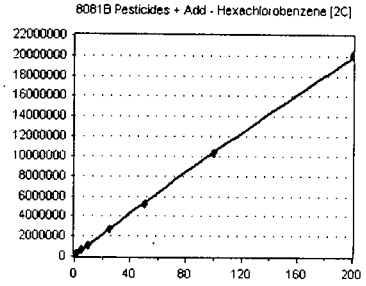
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Hexachlorobenzene [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

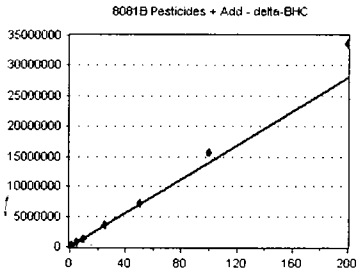


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	78616	157232.000	6.53
0D10031-CALB	1	145117	145117.000	6.53
0D10031-CALC	2	248384	124192.000	6.53
0D10031-CALD	5	553413	110682.600	6.53
0D10031-CALE	10	1101770	110177.000	6.53
0D10031-CALF	25	2741174	109647.000	6.53
0D10031-CALG	50	5176901	103538.000	6.53
0D10031-CALH	100	1.034226E+07	103422.600	6.53
0D10031-CALI	200	2.010664E+07	100533.200	6.53

AVE RF **118282.400** RF RSD **16.97** AVE RT **6.53**

delta-BHC

Curve Fit: **AVERAGE RF**

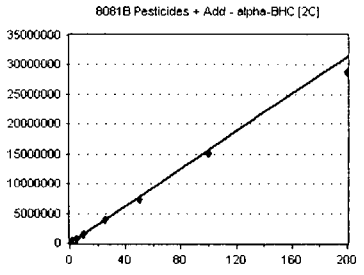


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	66268	132536.000	6.63
0D10031-CAL2	1	123295	123295.000	6.63
0D10031-CAL3	2	258031	129015.500	6.63
0D10031-CAL4	5	669294	133858.800	6.63
0D10031-CAL5	10	1348815	134881.500	6.63
0D10031-CAL6	25	3518783	140751.300	6.62
0D10031-CAL7	50	7200622	144012.400	6.62
0D10031-CAL8	100	1.565439E+07	156543.900	6.62
0D10031-CAL9	200	3.368315E+07	168415.800	6.62

AVE RF **140367.800** RF RSD **10.13** AVE RT **6.63**

alpha-BHC [2C]

Curve Fit: **AVERAGE RF**

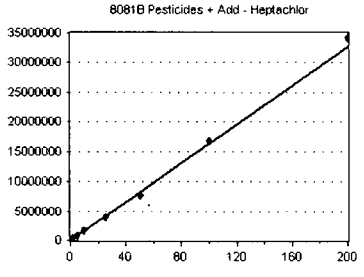


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	87452	174904.000	6.67
0D10031-CAL2	1	160189	160189.000	6.67
0D10031-CAL3	2	318129	159064.500	6.67
0D10031-CAL4	5	809491	161898.200	6.67
0D10031-CAL5	10	1592422	159242.200	6.67
0D10031-CAL6	25	3891920	155676.800	6.67
0D10031-CAL7	50	7382419	147648.400	6.67
0D10031-CAL8	100	1.505405E+07	150540.500	6.67
0D10031-CAL9	200	2.871933E+07	143596.700	6.67

AVE RF **156973.400** RF RSD **5.85** AVE RT **6.67**

Heptachlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	88422	176844.000	6.81
0D10031-CAL2	1	162313	162313.000	6.81
0D10031-CAL3	2	311735	155867.500	6.81
0D10031-CAL4	5	799546	159909.200	6.81
0D10031-CAL5	10	1629185	162918.500	6.81
0D10031-CAL6	25	3984158	159366.300	6.81
0D10031-CAL7	50	7786801	155736.000	6.81
0D10031-CAL8	100	1.693212E+07	169321.200	6.81
0D10031-CAL9	200	3.429158E+07	171457.900	6.81

AVE RF **163748.200** RF RSD **4.45** AVE RT **6.81**

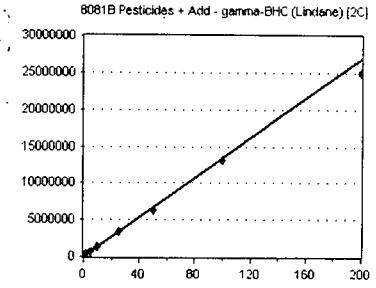
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

gamma-BHC (Lindane) [2C]

Curve Fit: **AVERAGE RF**

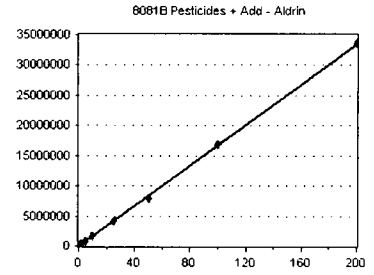


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	75918	151836.000	6.99
0D10031-CAL2	1	137359	137359.000	6.99
0D10031-CAL3	2	271046	135523.000	6.99
0D10031-CAL4	5	673024	134604.800	6.99
0D10031-CAL5	10	1349252	134925.200	6.99
0D10031-CAL6	25	3362986	134519.400	6.99
0D10031-CAL7	50	6395054	127901.100	6.99
0D10031-CAL8	100	1.311753E+07	131175.300	6.99
0D10031-CAL9	200	2.493691E+07	124684.500	7.00

AVE RF **134725.400** RF RSD **5.63** AVE RT **6.99**

Aldrin

Curve Fit: **AVERAGE RF**

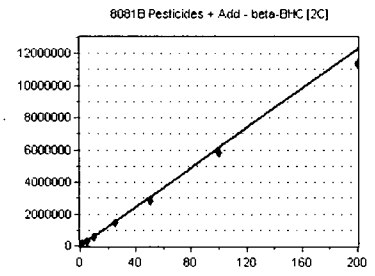


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	92070	184140.000	7.05
0D10031-CAL2	1	165393	165393.000	7.05
0D10031-CAL3	2	330949	165474.500	7.05
0D10031-CAL4	5	838045	167609.000	7.05
0D10031-CAL5	10	1665359	166535.900	7.05
0D10031-CAL6	25	4119405	164776.200	7.05
0D10031-CAL7	50	7862388	157247.800	7.05
0D10031-CAL8	100	1.687464E+07	168746.400	7.05
0D10031-CAL9	200	3.376914E+07	168845.700	7.05

AVE RF **167640.900** RF RSD **4.23** AVE RT **7.05**

beta-BHC [2C]

Curve Fit: **AVERAGE RF**

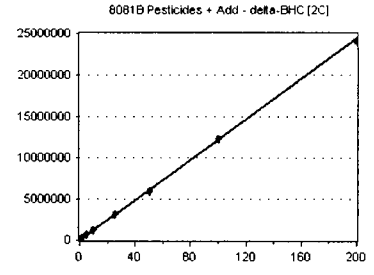


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	37170	74340.000	7.06
0D10031-CAL2	1	66254	66254.000	7.06
0D10031-CAL3	2	127912	63956.000	7.06
0D10031-CAL4	5	302941	60588.200	7.06
0D10031-CAL5	10	583118	58311.800	7.06
0D10031-CAL6	25	1441819	57672.760	7.06
0D10031-CAL7	50	2819965	56399.300	7.06
0D10031-CAL8	100	5838273	58382.730	7.06
0D10031-CAL9	200	1.136866E+07	56843.300	7.06

AVE RF **61416.450** RF RSD **9.57** AVE RT **7.06**

delta-BHC [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	66365	132730.000	7.32
0D10031-CAL2	1	118368	118368.000	7.32
0D10031-CAL3	2	234036	117018.000	7.32
0D10031-CAL4	5	620859	124171.800	7.32
0D10031-CAL5	10	1223432	122343.200	7.32
0D10031-CAL6	25	3102871	124114.800	7.32
0D10031-CAL7	50	5907599	118152.000	7.32
0D10031-CAL8	100	1.23279E+07	123279.000	7.32
0D10031-CAL9	200	2.398912E+07	119945.600	7.32

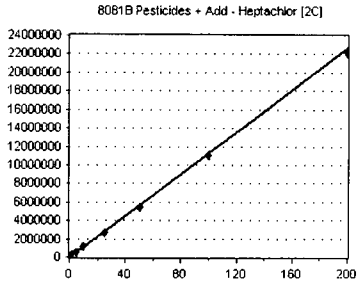
AVE RF **122235.800** RF RSD **3.91** AVE RT **7.32**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Heptachlor [2C]

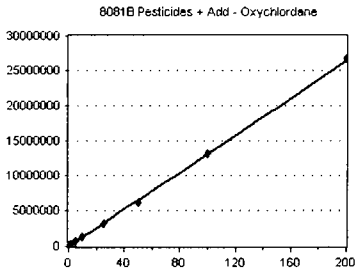


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	63633	127266.000	7.37
0D10031-CAL2	1	116127	116127.000	7.37
0D10031-CAL3	2	223319	111659.500	7.37
0D10031-CAL4	5	564693	112938.600	7.37
0D10031-CAL5	10	1105625	110562.500	7.37
0D10031-CAL6	25	2769954	110798.200	7.37
0D10031-CAL7	50	5432137	108642.700	7.37
0D10031-CAL8	100	1.099804E+07	109980.400	7.37
0D10031-CAL9	200	2.216973E+07	110848.600	7.37

AVE RF **113202.600** RF RSD **5.02** AVE RT **7.37**

Oxychlordane

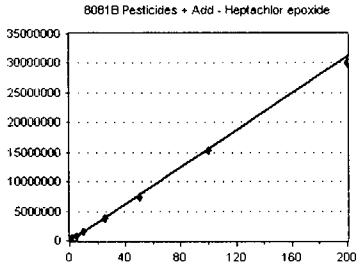


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	87083	174166.000	7.45
0D10031-CALB	1	167657	167657.000	7.45
0D10031-CALC	2	296003	148001.500	7.45
0D10031-CALD	5	646772	129354.400	7.45
0D10031-CALE	10	1300026	130002.600	7.45
0D10031-CALF	25	3280717	131228.700	7.45
0D10031-CALG	50	6240780	124815.600	7.45
0D10031-CALH	100	1.306324E+07	130632.400	7.45
0D10031-CALI	200	2.669499E+07	133475.000	7.45

AVE RF **141037.000** RF RSD **12.87** AVE RT **7.45**

Heptachlor epoxide

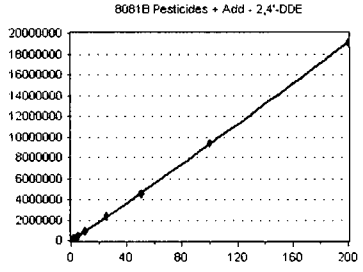


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	91327	182654.000	7.52
0D10031-CAL2	1	160396	160396.000	7.52
0D10031-CAL3	2	311852	155926.000	7.52
0D10031-CAL4	5	780587	156117.400	7.52
0D10031-CAL5	10	1525229	152522.900	7.52
0D10031-CAL6	25	3754002	150160.100	7.52
0D10031-CAL7	50	7294406	145888.100	7.52
0D10031-CAL8	100	1.538196E+07	153819.600	7.52
0D10031-CAL9	200	2.99929E+07	149964.500	7.52

AVE RF **156383.200** RF RSD **6.85** AVE RT **7.52**

2,4'-DDE



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	59883	119766.000	7.52
0D10031-CALB	1	114378	114378.000	7.52
0D10031-CALC	2	197703	98851.500	7.52
0D10031-CALD	5	448996	89799.200	7.52
0D10031-CALE	10	889087	88908.700	7.52
0D10031-CALF	25	2370241	94809.640	7.52
0D10031-CALG	50	4518917	90378.340	7.52
0D10031-CALH	100	9420136	94201.360	7.52
0D10031-CALI	200	1.911046E+07	95552.300	7.52

AVE RF **98516.120** RF RSD **11.23** AVE RT **7.52**

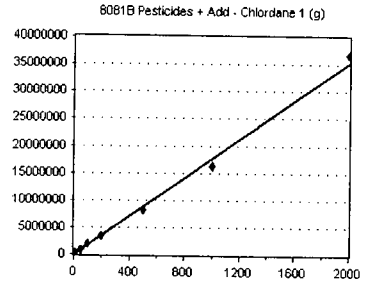
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Chlordane 1 (g)

Curve Fit: **AVERAGE RF**

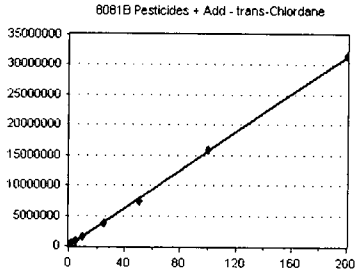


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	181927	18192.700	7.62
0D10031-CALK	50	860072	17201.440	7.62
0D10031-CALL	100	1921243	19212.430	7.61
0D10031-CALM	200	3546473	17732.370	7.61
0D10031-CALN	500	8257015	16514.030	7.61
0D10031-CALO	1000	1.629781E+07	16297.810	7.61
0D10031-CALP	2000	3.680514E+07	18402.570	7.61

AVE RF **17650.480** RF RSD **5.96** AVE RT **7.61**

trans-Chlordane

Curve Fit: **AVERAGE RF**

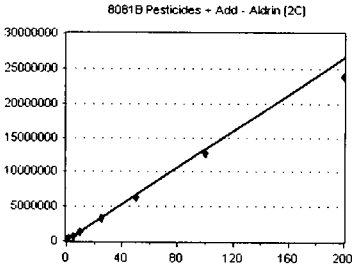


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	87797	175594.000	7.62
0D10031-CAL2	1	160412	160412.000	7.62
0D10031-CAL3	2	308851	154425.500	7.62
0D10031-CAL4	5	779273	155854.600	7.62
0D10031-CAL5	10	1502883	150288.300	7.62
0D10031-CAL6	25	3815437	152617.500	7.62
0D10031-CAL7	50	7465806	149316.100	7.62
0D10031-CAL8	100	1.593866E+07	159386.600	7.61
0D10031-CAL9	200	3.166632E+07	158331.600	7.62

AVE RF **157358.500** RF RSD **5.00** AVE RT **7.62**

Aldrin [2C]

Curve Fit: **AVERAGE RF**

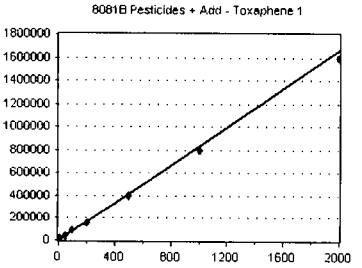


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	76126	152252.000	7.64
0D10031-CAL2	1	136778	136778.000	7.64
0D10031-CAL3	2	268918	134459.000	7.64
0D10031-CAL4	5	699880	139976.000	7.64
0D10031-CAL5	10	1316403	131640.300	7.64
0D10031-CAL6	25	3247513	129900.500	7.64
0D10031-CAL7	50	6276155	125523.100	7.64
0D10031-CAL8	100	1.262626E+07	126262.600	7.64
0D10031-CAL9	200	2.385577E+07	119278.900	7.64

AVE RF **132896.700** RF RSD **7.22** AVE RT **7.64**

Toxaphene 1

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	9912	991.200	7.70
0D10031-CALR	50	41998	839.960	7.69
0D10031-CALS	100	83308	833.080	7.69
0D10031-CALT	200	153469	767.345	7.69
0D10031-CALU	500	400599	801.198	7.69
0D10031-CALV	1000	793856	793.856	7.68
0D10031-CALW	2000	1600533	800.266	7.68

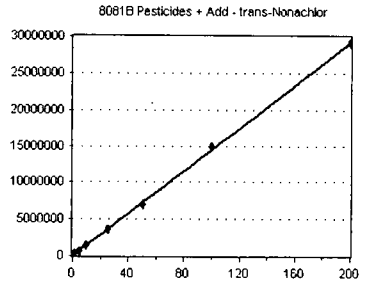
AVE RF **832.415** RF RSD **8.91** AVE RT **7.69**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

trans-Nonachlor

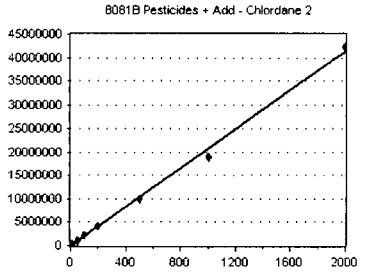


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	97265	194530.000	7.71
0D10031-CALB	1	189735	189735.000	7.71
0D10031-CALC	2	319860	159930.000	7.71
0D10031-CALD	5	722033	144406.600	7.71
0D10031-CALE	10	1431403	143140.300	7.71
0D10031-CALF	25	3612570	144502.800	7.70
0D10031-CALG	50	6909845	138196.900	7.70
0D10031-CALH	100	1.484191E+07	148419.100	7.70
0D10031-CALI	200	2.924029E+07	146201.500	7.70

AVE RF **156562.500** RF RSD **13.43** AVE RT **7.70**

Chlordane 2

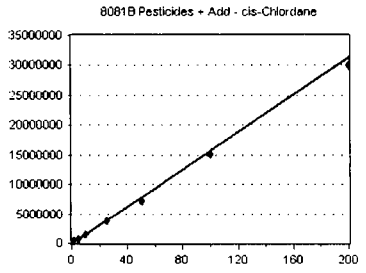


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	224425	22442.500	7.71
0D10031-CALK	50	1020612	20412.240	7.71
0D10031-CALL	100	2178319	21783.190	7.71
0D10031-CALM	200	4127220	20636.100	7.71
0D10031-CALN	500	9851749	19703.500	7.71
0D10031-CALO	1000	1.892345E+07	18923.450	7.71
0D10031-CALP	2000	4.230672E+07	21153.360	7.71

AVE RF **20722.050** RF RSD **5.79** AVE RT **7.71**

cis-Chlordane

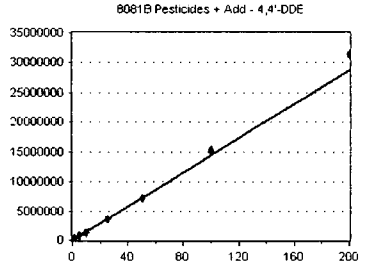


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	98925	197850.000	7.71
0D10031-CAL2	1	162363	162363.000	7.72
0D10031-CAL3	2	309955	154977.500	7.71
0D10031-CAL4	5	784009	156801.800	7.71
0D10031-CAL5	10	1485434	148543.400	7.71
0D10031-CAL6	25	3703571	148142.800	7.71
0D10031-CAL7	50	7133255	142665.100	7.71
0D10031-CAL8	100	1.510384E+07	151038.400	7.71
0D10031-CAL9	200	3.006937E+07	150346.800	7.71

AVE RF **156969.900** RF RSD **10.41** AVE RT **7.71**

4,4'-DDE



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	76638	153276.000	7.77
0D10031-CAL2	1	132356	132356.000	7.78
0D10031-CAL3	2	264579	132289.500	7.77
0D10031-CAL4	5	712814	142562.800	7.77
0D10031-CAL5	10	1382476	138247.600	7.77
0D10031-CAL6	25	3675424	147017.000	7.77
0D10031-CAL7	50	7150986	143019.700	7.77
0D10031-CAL8	100	1.529286E+07	152928.600	7.77
0D10031-CAL9	200	3.131499E+07	156575.000	7.77

AVE RF **144252.500** RF RSD **6.21** AVE RT **7.77**

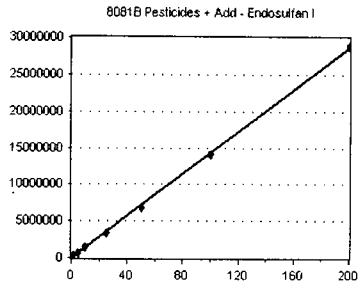
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Endosulfan I

Curve Fit: **AVERAGE RF**

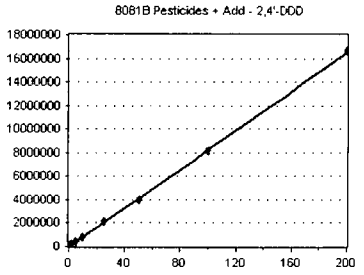


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	82435	164870.000	7.82
0D10031-CAL2	1	145356	145356.000	7.82
0D10031-CAL3	2	284291	142145.500	7.82
0D10031-CAL4	5	712441	142488.200	7.82
0D10031-CAL5	10	1386208	138620.800	7.82
0D10031-CAL6	25	3466454	138658.200	7.81
0D10031-CAL7	50	6731758	134635.200	7.81
0D10031-CAL8	100	1.407242E+07	140724.200	7.81
0D10031-CAL9	200	2.883958E+07	144197.900	7.81

AVE RF **143521.800** RF RSD **6.02** AVE RT **7.81**

2,4'-DDD

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

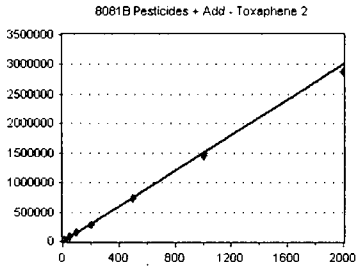


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	56544	113088.000	7.90
0D10031-CALB	1	106028	106028.000	7.90
0D10031-CALC	2	187358	93679.000	7.90
0D10031-CALD	5	402442	80488.400	7.90
0D10031-CALE	10	809760	80976.000	7.90
0D10031-CALF	25	2101228	84049.120	7.90
0D10031-CALG	50	4001953	80039.060	7.90
0D10031-CALH	100	8200834	82008.340	7.90
0D10031-CALI	200	1.6682E+07	83410.000	7.90

AVE RF **89307.320** RF RSD **13.79** AVE RT **7.90**

Toxaphene 2

Curve Fit: **AVERAGE RF**

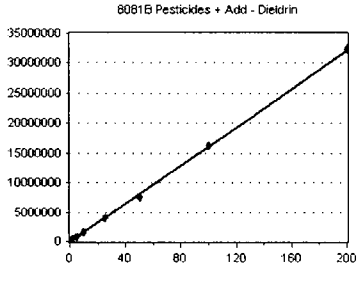


Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	15559	1555.900	7.99
0D10031-CALR	50	82518	1650.360	7.99
0D10031-CALS	100	156502	1565.020	7.99
0D10031-CALT	200	286085	1430.425	7.98
0D10031-CALU	500	728788	1457.576	7.98
0D10031-CALV	1000	1453876	1453.876	7.98
0D10031-CALW	2000	2869354	1434.677	7.98

AVE RF **1506.833** RF RSD **5.60** AVE RT **7.98**

Dieldrin

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	86632	173264.000	7.99
0D10031-CAL2	1	160736	160736.000	7.99
0D10031-CAL3	2	311986	155993.000	7.99
0D10031-CAL4	5	805257	161051.400	7.99
0D10031-CAL5	10	1588078	158807.800	7.99
0D10031-CAL6	25	3986579	159463.200	7.99
0D10031-CAL7	50	7608328	152166.600	7.99
0D10031-CAL8	100	1.630012E+07	163001.200	7.99
0D10031-CAL9	200	3.238647E+07	161932.300	7.99

AVE RF **160712.800** RF RSD **3.58** AVE RT **7.99**

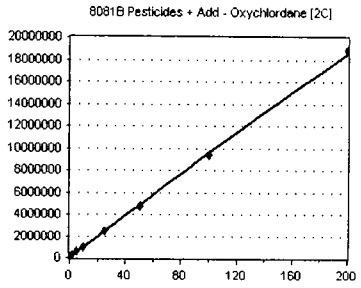
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Oxychlordane [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

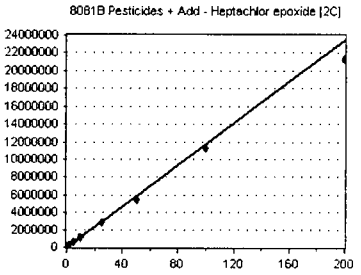


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	67961	135922.000	8.01
0D10031-CALB	1	131841	131841.000	8.01
0D10031-CALC	2	226120	113060.000	8.01
0D10031-CALD	5	490301	98060.200	8.01
0D10031-CALE	10	992994	99299.400	8.01
0D10031-CALF	25	2462430	98497.200	8.01
0D10031-CALG	50	4745169	94903.380	8.01
0D10031-CALH	100	9423897	94238.970	8.01
0D10031-CALI	200	1.888033E+07	94401.650	8.01

AVE RF **106691.500** RF RSD **15.43** AVE RT **8.01**

Heptachlor epoxide [2C]

Curve Fit: **AVERAGE RF**

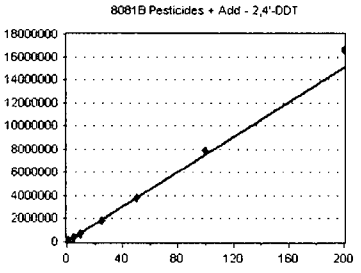


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	69830	139660.000	8.08
0D10031-CAL2	1	122009	122009.000	8.08
0D10031-CAL3	2	241069	120534.500	8.08
0D10031-CAL4	5	590771	118154.200	8.08
0D10031-CAL5	10	1175438	117543.800	8.08
0D10031-CAL6	25	2836226	113449.000	8.08
0D10031-CAL7	50	5446885	108937.700	8.08
0D10031-CAL8	100	1.125874E+07	112587.400	8.08
0D10031-CAL9	200	2.127088E+07	106354.400	8.08

AVE RF **117692.200** RF RSD **8.27** AVE RT **8.08**

2,4'-DDT

Curve Fit: **AVERAGE RF**

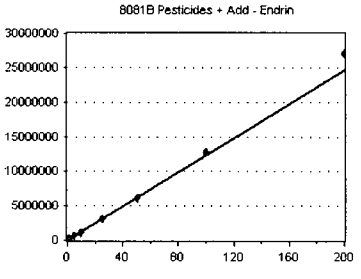


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	41657	83314.000	8.08
0D10031-CALB	1	77977	77977.000	8.08
0D10031-CALC	2	133977	66988.500	8.08
0D10031-CALD	5	343961	68792.200	8.08
0D10031-CALE	10	665398	66539.800	8.08
0D10031-CALF	25	1890884	75635.360	8.08
0D10031-CALG	50	3806076	76121.520	8.08
0D10031-CALH	100	7906836	79068.360	8.08
0D10031-CALI	200	1.661567E+07	83078.350	8.08

AVE RF **75279.450** RF RSD **8.60** AVE RT **8.08**

Endrin

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	63369	126738.000	8.16
0D10031-CAL2	1	118800	118800.000	8.16
0D10031-CAL3	2	233183	116591.500	8.16
0D10031-CAL4	5	600774	120154.800	8.16
0D10031-CAL5	10	1200412	120041.200	8.16
0D10031-CAL6	25	3047888	121915.500	8.16
0D10031-CAL7	50	6088856	121777.100	8.15
0D10031-CAL8	100	1.28781E+07	128781.000	8.15
0D10031-CAL9	200	2.709374E+07	135468.700	8.15

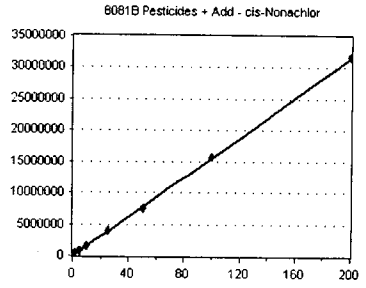
AVE RF **123363.100** RF RSD **4.79** AVE RT **8.15**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

cis-Nonachlor

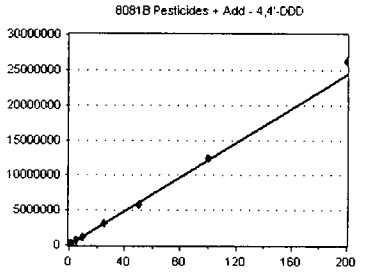


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	105931	211862.000	8.18
0D10031-CALB	1	197292	197292.000	8.18
0D10031-CALC	2	342161	171080.500	8.18
0D10031-CALD	5	779953	155990.600	8.18
0D10031-CALE	10	1524562	152456.200	8.18
0D10031-CALF	25	3931964	157278.600	8.18
0D10031-CALG	50	7558026	151160.500	8.18
0D10031-CALH	100	1.561631E+07	156163.100	8.18
0D10031-CALI	200	3.180214E+07	159010.700	8.18

AVE RF **168032.700** RF RSD **12.96** AVE RT **8.18**

4,4'-DDD

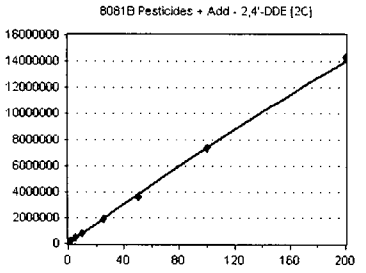


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	67675	135350.000	8.20
0D10031-CAL2	1	118335	118335.000	8.20
0D10031-CAL3	2	229102	114551.000	8.20
0D10031-CAL4	5	580403	116080.600	8.20
0D10031-CAL5	10	1143858	114385.800	8.20
0D10031-CAL6	25	3056605	122264.200	8.20
0D10031-CAL7	50	5813915	116278.300	8.20
0D10031-CAL8	100	1.242879E+07	124287.900	8.20
0D10031-CAL9	200	2.622238E+07	131111.900	8.20

AVE RF **121405.000** RF RSD **6.23** AVE RT **8.20**

2,4'-DDE [2C]

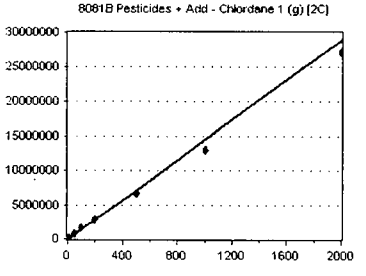


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	54754	109508.000	8.22
0D10031-CALB	1	102014	102014.000	8.22
0D10031-CALC	2	175821	87910.500	8.22
0D10031-CALD	5	395444	79088.800	8.22
0D10031-CALE	10	776105	77610.500	8.22
0D10031-CALF	25	1938260	77530.400	8.22
0D10031-CALG	50	3659885	73197.700	8.22
0D10031-CALH	100	7319258	73192.580	8.21
0D10031-CALI	200	1.426314E+07	71315.700	8.22

AVE RF **83485.350** RF RSD **16.34** AVE RT **8.22**

Chlordane 1 (g) [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	156594	15659.400	8.22
0D10031-CALK	50	734996	14699.920	8.22
0D10031-CALL	100	1636710	16367.100	8.22
0D10031-CALM	200	2904795	14523.970	8.22
0D10031-CALN	500	6758715	13517.430	8.22
0D10031-CALO	1000	1.293987E+07	12939.870	8.22
0D10031-CALP	2000	2.712576E+07	13562.880	8.22

AVE RF **14467.230** RF RSD **8.53** AVE RT **8.22**

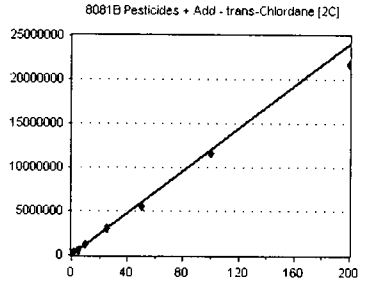
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

trans-Chlordane [2C]

Curve Fit: **AVERAGE RF**

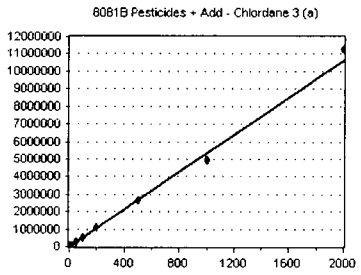


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	71156	142312.000	8.22
0D10031-CAL2	1	126502	126502.000	8.22
0D10031-CAL3	2	240690	120345.000	8.22
0D10031-CAL4	5	605591	121118.200	8.22
0D10031-CAL5	10	1202264	120226.400	8.22
0D10031-CAL6	25	2978658	119146.300	8.22
0D10031-CAL7	50	5551909	111038.200	8.22
0D10031-CAL8	100	1.161902E+07	116190.200	8.22
0D10031-CAL9	200	2.170917E+07	108545.900	8.22

AVE RF **120602.700** RF RSD **8.11** AVE RT **8.22**

Chlordane 3 (a)

Curve Fit: **AVERAGE RF**

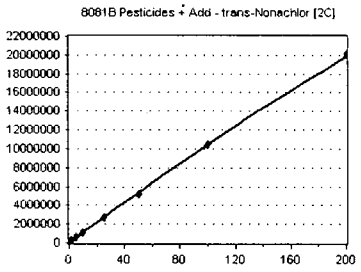


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	55530	5553.000	8.27
0D10031-CALK	50	252424	5048.480	8.27
0D10031-CALL	100	525276	5252.760	8.27
0D10031-CALM	200	1111336	5556.680	8.27
0D10031-CALN	500	2640047	5280.094	8.26
0D10031-CALO	1000	4918547	4918.547	8.26
0D10031-CALP	2000	1.127092E+07	5635.460	8.26

AVE RF **5320.717** RF RSD **5.15** AVE RT **8.26**

trans-Nonachlor [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

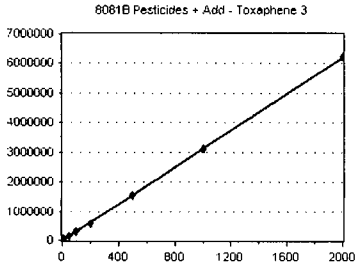


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	76561	153122.000	8.29
0D10031-CALB	1	145443	145443.000	8.29
0D10031-CALC	2	251420	125710.000	8.29
0D10031-CALD	5	557194	111438.800	8.29
0D10031-CALE	10	1088724	108872.400	8.29
0D10031-CALF	25	2768485	110739.400	8.29
0D10031-CALG	50	5248360	104967.200	8.29
0D10031-CALH	100	1.046111E+07	104611.100	8.29
0D10031-CALI	200	2.004439E+07	100222.000	8.29

AVE RF **118347.300** RF RSD **16.06** AVE RT **8.29**

Toxaphene 3

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	32449	3244.900	8.30
0D10031-CALR	50	158918	3178.360	8.30
0D10031-CALS	100	311689	3116.890	8.30
0D10031-CALT	200	586224	2931.120	8.30
0D10031-CALU	500	1540725	3081.450	8.30
0D10031-CALV	1000	3092888	3092.888	8.30
0D10031-CALW	2000	6253933	3126.967	8.30

AVE RF **3110.368** RF RSD **3.11** AVE RT **8.30**

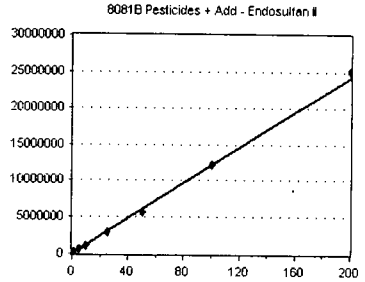
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Endosulfan II

Curve Fit: **AVERAGE RF**

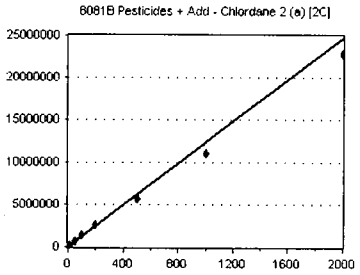


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	67076	134152.000	8.32
0D10031-CAL2	1	119697	119697.000	8.32
0D10031-CAL3	2	233441	116720.500	8.32
0D10031-CAL4	5	589436	117887.200	8.31
0D10031-CAL5	10	1207633	120763.300	8.32
0D10031-CAL6	25	2966130	118645.200	8.31
0D10031-CAL7	50	5720662	114413.200	8.31
0D10031-CAL8	100	1.214729E+07	121472.900	8.31
0D10031-CAL9	200	2.514077E+07	125703.900	8.31

AVE RF **121050.600** RF RSD **4.83** AVE RT **8.31**

Chlordane 2 (a) [2C]

Curve Fit: **AVERAGE RF**

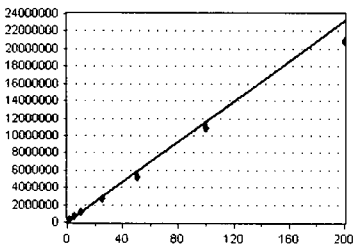


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	138950	13895.000	8.33
0D10031-CALK	50	633044	12660.880	8.33
0D10031-CALL	100	1360439	13604.390	8.33
0D10031-CALM	200	2508298	12541.490	8.33
0D10031-CALN	500	5655525	11311.050	8.33
0D10031-CALO	1000	1.110162E+07	11101.620	8.33
0D10031-CALP	2000	2.283037E+07	11415.180	8.33

AVE RF **12361.370** RF RSD **9.11** AVE RT **8.33**

cis-Chlordane [2C]

Curve Fit: **AVERAGE RF**

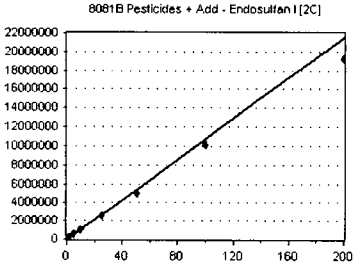


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	70102	140204.000	8.33
0D10031-CAL2	1	124533	124533.000	8.33
0D10031-CAL3	2	235252	117626.000	8.33
0D10031-CAL4	5	585259	117051.800	8.33
0D10031-CAL5	10	1131819	113181.900	8.33
0D10031-CAL6	25	2773817	110952.700	8.33
0D10031-CAL7	50	5236394	104727.900	8.33
0D10031-CAL8	100	1.096013E+07	109601.300	8.33
0D10031-CAL9	200	2.09135E+07	104567.500	8.33

AVE RF **115827.300** RF RSD **9.62** AVE RT **8.33**

Endosulfan I [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	65843	131686.000	8.38
0D10031-CAL2	1	110124	110124.000	8.38
0D10031-CAL3	2	219822	109911.000	8.38
0D10031-CAL4	5	546125	109225.000	8.38
0D10031-CAL5	10	1056492	105649.200	8.38
0D10031-CAL6	25	2611533	104461.300	8.38
0D10031-CAL7	50	4951225	99024.500	8.38
0D10031-CAL8	100	1.016173E+07	101617.300	8.38
0D10031-CAL9	200	1.922892E+07	96144.600	8.38

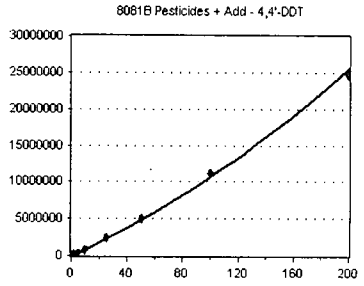
AVE RF **107538.100** RF RSD **9.58** AVE RT **8.38**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

4,4'-DDT

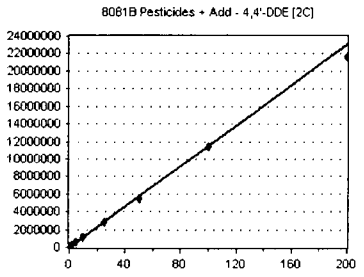


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	37407	74814.000	8.40
0D10031-CAL2	1	73450	73450.000	8.40
0D10031-CAL3	2	145442	72721.000	8.40
0D10031-CAL4	5	402575	80515.000	8.40
0D10031-CAL5	10	875483	87548.300	8.40
0D10031-CAL6	25	2456263	98250.520	8.40
0D10031-CAL7	50	5090784	101815.700	8.40
0D10031-CAL8	100	1.111867E+07	111186.700	8.40
0D10031-CAL9	200	2.472306E+07	123615.300	8.40

AVE RF **91546.280** RF RSD **19.93** AVE RT **8.40**

4,4'-DDE [2C]

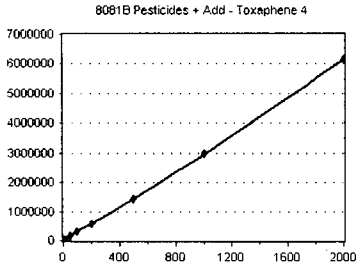


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	64334	128668.000	8.44
0D10031-CAL2	1	115967	115967.000	8.44
0D10031-CAL3	2	230910	115455.000	8.44
0D10031-CAL4	5	584778	116955.600	8.44
0D10031-CAL5	10	1137288	113728.800	8.44
0D10031-CAL6	25	2877432	115097.300	8.44
0D10031-CAL7	50	5427651	108553.000	8.44
0D10031-CAL8	100	1.136763E+07	113676.300	8.44
0D10031-CAL9	200	2.165285E+07	108264.300	8.44

AVE RF **115151.700** RF RSD **5.15** AVE RT **8.44**

Toxaphene 4

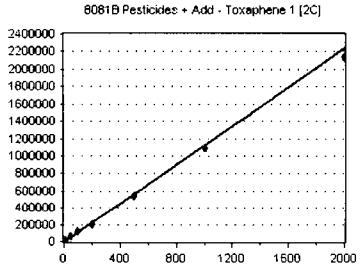


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	44818	4481.800	8.54
0D10031-CALR	50	158276	3165.520	8.54
0D10031-CALS	100	303785	3037.850	8.54
0D10031-CALT	200	565257	2826.285	8.54
0D10031-CALU	500	1443047	2886.094	8.54
0D10031-CALV	1000	2982259	2982.259	8.54
0D10031-CALW	2000	6177768	3088.884	8.54

AVE RF **3209.813** RF RSD **17.84** AVE RT **8.54**

Toxaphene 1 [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	11439	1143.900	8.56
0D10031-CALR	50	61319	1226.380	8.56
0D10031-CALS	100	116776	1167.760	8.56
0D10031-CALT	200	208550	1042.750	8.56
0D10031-CALU	500	549025	1098.050	8.56
0D10031-CALV	1000	1091279	1091.279	8.56
0D10031-CALW	2000	2139599	1069.800	8.56

AVE RF **1119.988** RF RSD **5.64** AVE RT **8.56**

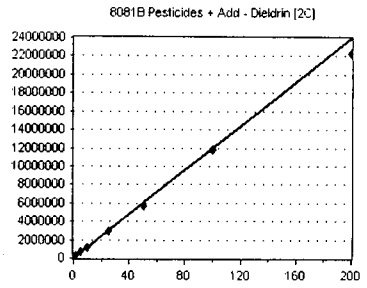
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Dieldrin [2C]

Curve Fit: **AVERAGE RF**

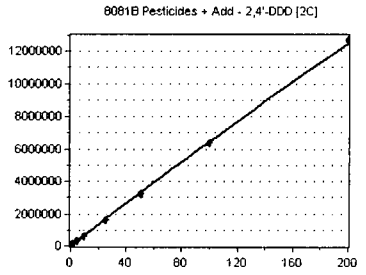


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	68980	137960.000	8.58
0D10031-CAL2	1	120867	120867.000	8.59
0D10031-CAL3	2	236771	118385.500	8.59
0D10031-CAL4	5	602273	120454.600	8.58
0D10031-CAL5	10	1196698	119669.800	8.59
0D10031-CAL6	25	2919821	116792.800	8.59
0D10031-CAL7	50	5672261	113445.200	8.58
0D10031-CAL8	100	1.185345E+07	118534.500	8.58
0D10031-CAL9	200	2.231577E+07	111578.900	8.58

AVE RF **119743.100** RF RSD **6.28** AVE RT **8.58**

2,4'-DDD [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

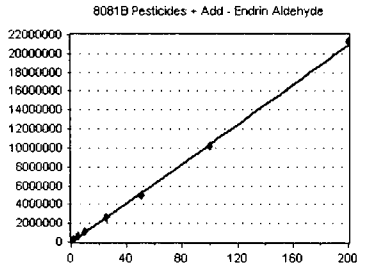


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	50583	101166.000	8.59
0D10031-CALB	1	93331	93331.000	8.59
0D10031-CALC	2	158108	79054.000	8.59
0D10031-CALD	5	342154	68430.800	8.59
0D10031-CALE	10	665503	66550.300	8.59
0D10031-CALF	25	1648579	65943.160	8.59
0D10031-CALG	50	3205195	64103.900	8.59
0D10031-CALH	100	6389450	63894.500	8.59
0D10031-CALI	200	1.270525E+07	63526.250	8.59

AVE RF **73999.990** RF RSD **19.10** AVE RT **8.59**

Endrin Aldehyde

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

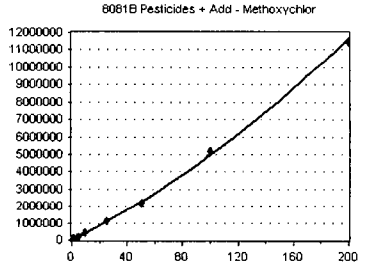


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	73553	147106.000	8.61
0D10031-CAL2	1	127313	127313.000	8.61
0D10031-CAL3	2	237806	118903.000	8.61
0D10031-CAL4	5	545702	109140.400	8.61
0D10031-CAL5	10	1043139	104313.900	8.61
0D10031-CAL6	25	2573122	102924.900	8.61
0D10031-CAL7	50	4966378	99327.560	8.61
0D10031-CAL8	100	1.021396E+07	102139.600	8.61
0D10031-CAL9	200	2.13247E+07	106623.500	8.61

AVE RF **113088.000** RF RSD **13.77** AVE RT **8.61**

Methoxychlor

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	19411	38822.000	8.74
0D10031-CAL2	1	39011	39011.000	8.74
0D10031-CAL3	2	74306	37153.000	8.74
0D10031-CAL4	5	204727	40945.400	8.74
0D10031-CAL5	10	427742	42774.200	8.74
0D10031-CAL6	25	1114647	44585.880	8.74
0D10031-CAL7	50	2212679	44253.580	8.74
0D10031-CAL8	100	5195602	51956.020	8.74
0D10031-CAL9	200	1.146302E+07	57315.100	8.74

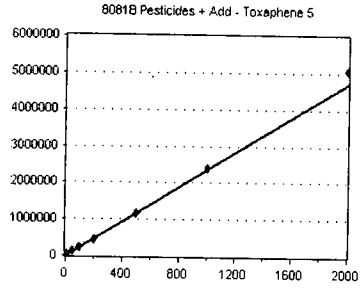
AVE RF **44090.690** RF RSD **15.01** AVE RT **8.74**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Toxaphene 5

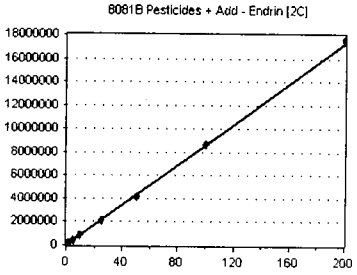


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	23487	2348.700	8.78
0D10031-CALR	50	119137	2382.740	8.78
0D10031-CALS	100	229620	2296.200	8.78
0D10031-CALT	200	439278	2196.390	8.77
0D10031-CALU	500	1171966	2343.932	8.77
0D10031-CALV	1000	2385429	2385.429	8.77
0D10031-CALW	2000	5064912	2532.456	8.77

AVE RF **2355.121** RF RSD **4.31** AVE RT **8.77**

Endrin [2C]

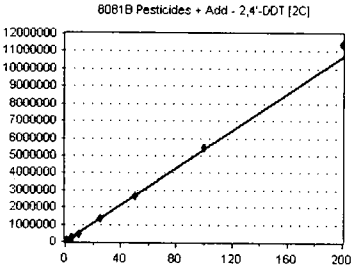


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	47079	94158.000	8.81
0D10031-CAL2	1	86799	86799.000	8.82
0D10031-CAL3	2	167127	83563.500	8.81
0D10031-CAL4	5	419756	83951.200	8.81
0D10031-CAL5	10	862016	86201.600	8.82
0D10031-CAL6	25	2128761	85150.440	8.81
0D10031-CAL7	50	4168787	83375.740	8.81
0D10031-CAL8	100	8690942	86909.420	8.81
0D10031-CAL9	200	1.758826E+07	87941.300	8.81

AVE RF **86450.020** RF RSD **3.83** AVE RT **8.81**

2,4'-DDT [2C]

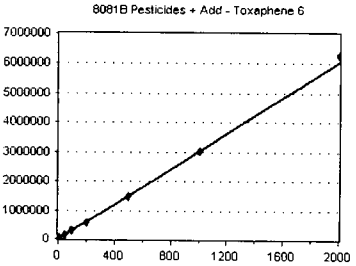


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	32434	64868.000	8.82
0D10031-CALB	1	56936	56936.000	8.82
0D10031-CALC	2	96604	48302.000	8.82
0D10031-CALD	5	240393	48078.600	8.82
0D10031-CALE	10	472159	47215.900	8.82
0D10031-CALF	25	1331674	53266.960	8.82
0D10031-CALG	50	2644918	52898.360	8.82
0D10031-CALH	100	5426818	54268.180	8.82
0D10031-CALI	200	1.138473E+07	56923.650	8.82

AVE RF **53639.740** RF RSD **10.41** AVE RT **8.82**

Toxaphene 6



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	34168	3416.800	8.84
0D10031-CALR	50	150990	3019.800	8.84
0D10031-CALS	100	291120	2911.200	8.84
0D10031-CALT	200	559171	2795.855	8.84
0D10031-CALU	500	1468060	2936.120	8.84
0D10031-CALV	1000	3017263	3017.263	8.84
0D10031-CALW	2000	6273981	3136.990	8.84

AVE RF **3033.433** RF RSD **6.58** AVE RT **8.84**

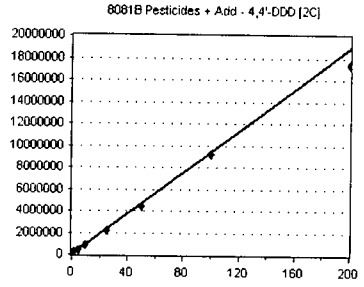
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

4,4'-DDD [2C]

Curve Fit: **AVERAGE RF**

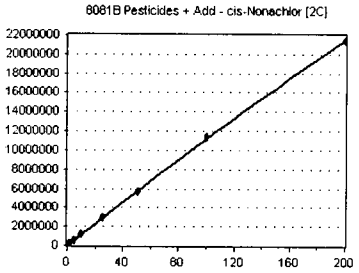


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	58722	117444.000	8.86
0D10031-CAL2	1	101471	101471.000	8.86
0D10031-CAL3	2	184447	92223.500	8.86
0D10031-CAL4	5	466489	93297.800	8.86
0D10031-CAL5	10	889692	88969.200	8.86
0D10031-CAL6	25	2212251	88490.040	8.86
0D10031-CAL7	50	4432731	88654.620	8.86
0D10031-CAL8	100	9158353	91583.530	8.86
0D10031-CAL9	200	1.743273E+07	87163.650	8.86

AVE RF **94366.370** RF RSD **10.22** AVE RT **8.86**

cis-Nonachlor [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

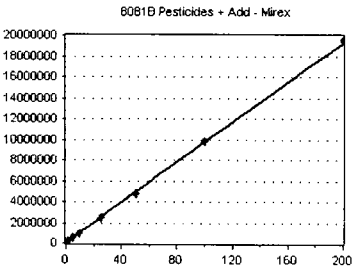


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	83146	166292.000	8.86
0D10031-CALB	1	153334	153334.000	8.86
0D10031-CALC	2	262929	131464.500	8.86
0D10031-CALD	5	594209	118841.800	8.86
0D10031-CALE	10	1133487	113348.700	8.86
0D10031-CALF	25	2939943	117597.700	8.86
0D10031-CALG	50	5676373	113527.500	8.86
0D10031-CALH	100	1.137821E+07	113782.100	8.86
0D10031-CALI	200	2.137295E+07	106864.800	8.86

AVE RF **126117.000** RF RSD **16.23** AVE RT **8.86**

Mirex

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

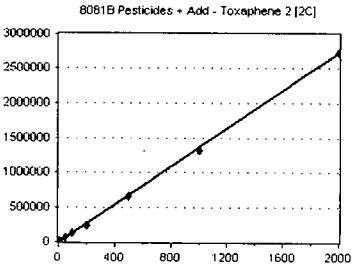


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	82399	164798.000	8.86
0D10031-CALB	1	147950	147950.000	8.86
0D10031-CALC	2	248901	124450.500	8.86
0D10031-CALD	5	521342	104268.400	8.86
0D10031-CALE	10	976519	97651.900	8.86
0D10031-CALF	25	2445934	97837.360	8.86
0D10031-CALG	50	4722341	94446.820	8.86
0D10031-CALH	100	9796794	97967.940	8.86
0D10031-CALI	200	1.960009E+07	98000.450	8.86

AVE RF **114152.400** RF RSD **22.68** AVE RT **8.86**

Toxaphene 2 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	14963	1496.300	8.91
0D10031-CALR	50	72536	1450.720	8.91
0D10031-CALS	100	135442	1354.420	8.91
0D10031-CALT	200	248644	1243.220	8.91
0D10031-CALU	500	661072	1322.144	8.91
0D10031-CALV	1000	1317514	1317.514	8.91
0D10031-CALW	2000	2728248	1364.124	8.91

AVE RF **1364.063** RF RSD **6.25** AVE RT **8.91**

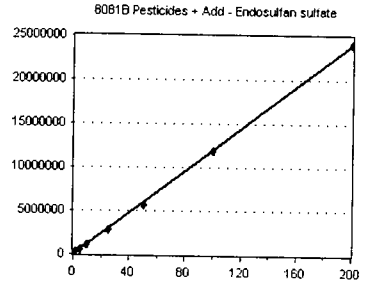
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Endosulfan sulfate

Curve Fit: **AVERAGE RF**

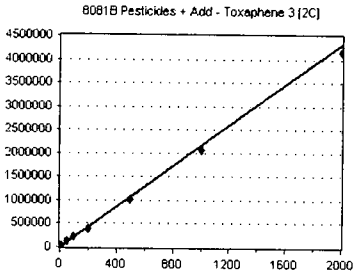


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	72456	144912.000	8.91
0D10031-CAL2	1	126416	126416.000	8.91
0D10031-CAL3	2	233112	116556.000	8.91
0D10031-CAL4	5	580327	116065.400	8.91
0D10031-CAL5	10	1141536	114153.600	8.91
0D10031-CAL6	25	2840981	113639.200	8.91
0D10031-CAL7	50	5681676	113633.500	8.91
0D10031-CAL8	100	1.188256E+07	118825.600	8.91
0D10031-CAL9	200	2.398734E+07	119936.700	8.91

AVE RF **120459.800** RF RSD **8.32** AVE RT **8.91**

Toxaphene 3 [2C]

Curve Fit: **AVERAGE RF**

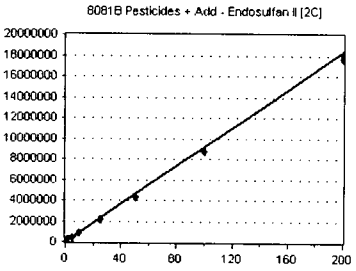


Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	26120	2612.000	8.94
0D10031-CALR	50	114478	2289.560	8.94
0D10031-CALS	100	211094	2110.940	8.94
0D10031-CALT	200	394858	1974.290	8.94
0D10031-CALU	500	1031208	2062.416	8.94
0D10031-CALV	1000	2068991	2068.991	8.94
0D10031-CALW	2000	4148392	2074.196	8.94

AVE RF **2170.342** RF RSD **10.00** AVE RT **8.94**

Endosulfan II [2C]

Curve Fit: **AVERAGE RF**

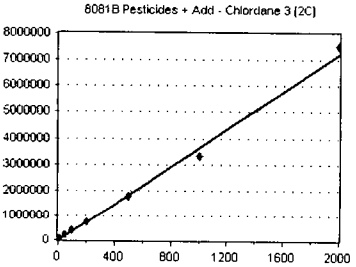


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	55230	110460.000	8.96
0D10031-CAL2	1	95182	95182.000	8.96
0D10031-CAL3	2	182611	91305.500	8.96
0D10031-CAL4	5	453168	90633.600	8.96
0D10031-CAL5	10	876423	87642.300	8.96
0D10031-CAL6	25	2201693	88067.720	8.96
0D10031-CAL7	50	4306868	86137.360	8.96
0D10031-CAL8	100	8759068	87590.680	8.96
0D10031-CAL9	200	1.768812E+07	88440.600	8.96

AVE RF **91717.750** RF RSD **8.21** AVE RT **8.96**

Chlordane 3 [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	51394	5139.400	9.00
0D10031-CALK	50	195537	3910.740	9.00
0D10031-CALL	100	395685	3956.850	9.00
0D10031-CALM	200	745316	3726.580	9.00
0D10031-CALN	500	1759160	3518.320	9.00
0D10031-CALO	1000	3349788	3349.788	9.00
0D10031-CALP	2000	7528954	3764.477	9.00

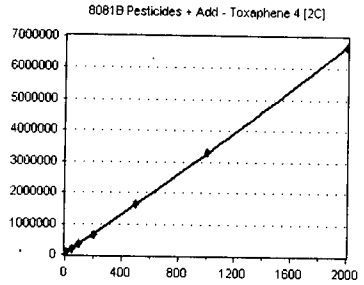
AVE RF **3909.451** RF RSD **14.90** AVE RT **9.00**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041(**

Toxaphene 4 [2C]

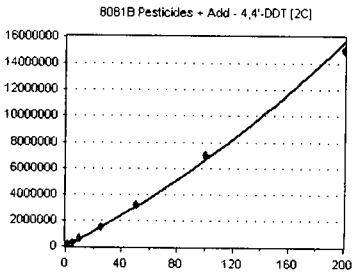


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	62570	6257.000	9.01
0D10031-CALR	50	190413	3808.260	9.01
0D10031-CALS	100	346003	3460.030	9.01
0D10031-CALT	200	639556	3197.780	9.01
0D10031-CALU	500	1630720	3261.440	9.01
0D10031-CALV	1000	3308655	3308.655	9.01
0D10031-CALW	2000	6693759	3346.879	9.01

AVE RF **3805.721** RF RSD **28.89** AVE RT **9.01**

4,4'-DDT [2C]

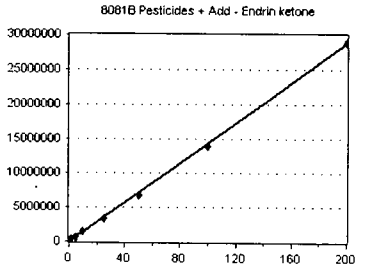


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	24779	49558.000	9.08
0D10031-CAL2	1	49721	49721.000	9.09
0D10031-CAL3	2	89330	44665.000	9.09
0D10031-CAL4	5	260165	52033.000	9.09
0D10031-CAL5	10	578694	57869.400	9.09
0D10031-CAL6	25	1496497	59859.880	9.09
0D10031-CAL7	50	3189186	63783.720	9.08
0D10031-CAL8	100	7015904	70159.040	9.09
0D10031-CAL9	200	1.505876E+07	75293.800	9.08

AVE RF **58104.760** RF RSD **17.60** AVE RT **9.08**

Endrin ketone

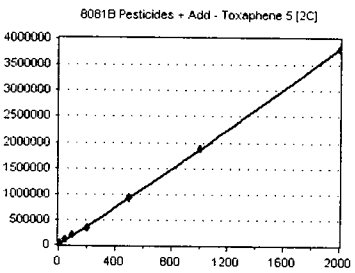


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	83435	166870.000	9.11
0D10031-CAL2	1	152949	152949.000	9.11
0D10031-CAL3	2	285336	142668.000	9.11
0D10031-CAL4	5	688717	137743.400	9.11
0D10031-CAL5	10	1381099	138109.900	9.11
0D10031-CAL6	25	3445975	137839.000	9.11
0D10031-CAL7	50	6843717	136874.300	9.11
0D10031-CAL8	100	1.390394E+07	139039.400	9.11
0D10031-CAL9	200	2.886583E+07	144329.200	9.11

AVE RF **144046.900** RF RSD **6.91** AVE RT **9.11**

Toxaphene 5 [2C]



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	23927	2392.700	9.19
0D10031-CALR	50	99407	1988.140	9.19
0D10031-CALS	100	185979	1859.790	9.19
0D10031-CALT	200	355753	1778.765	9.19
0D10031-CALU	500	932303	1864.606	9.19
0D10031-CALV	1000	1879026	1879.026	9.19
0D10031-CALW	2000	3797020	1898.510	9.19

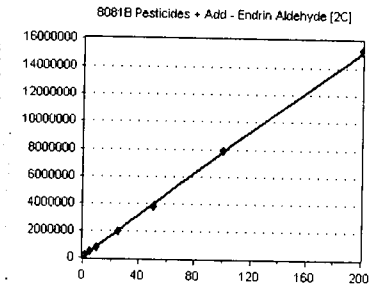
AVE RF **1951.648** RF RSD **10.46** AVE RT **9.19**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Endrin Aldehyde [2C]

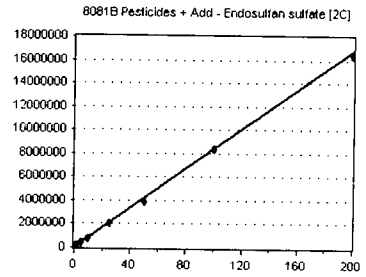


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	58732	117464.000	9.20
0D10031-CAL2	1	100085	100085.000	9.20
0D10031-CAL3	2	191739	95869.500	9.20
0D10031-CAL4	5	424119	84823.800	9.20
0D10031-CAL5	10	811442	81144.200	9.20
0D10031-CAL6	25	1952460	78098.400	9.20
0D10031-CAL7	50	3803916	76078.320	9.20
0D10031-CAL8	100	7859690	78596.900	9.20
0D10031-CAL9	200	1.532543E+07	76627.150	9.20

AVE RF **87643.030** RF RSD **16.09** AVE RT **9.20**

Endosulfan sulfate [2C]

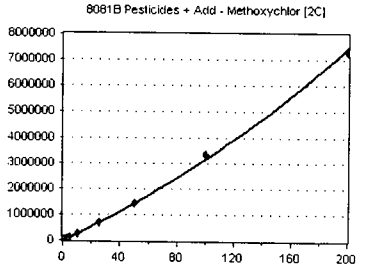


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	50159	100318.000	9.39
0D10031-CAL2	1	88344	88344.000	9.39
0D10031-CAL3	2	166426	83213.000	9.39
0D10031-CAL4	5	407094	81418.800	9.39
0D10031-CAL5	10	796875	79687.500	9.39
0D10031-CAL6	25	2020111	80804.440	9.39
0D10031-CAL7	50	3917488	78349.760	9.39
0D10031-CAL8	100	8368447	83684.470	9.39
0D10031-CAL9	200	1.635617E+07	81780.850	9.39

AVE RF **84177.870** RF RSD **7.95** AVE RT **9.39**

Methoxychlor [2C]

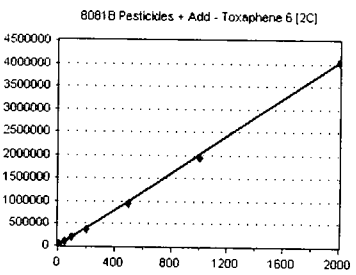


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	11909	23818.000	9.57
0D10031-CAL2	1	24923	24923.000	9.57
0D10031-CAL3	2	46818	23409.000	9.57
0D10031-CAL4	5	127410	25482.000	9.57
0D10031-CAL5	10	269363	26936.300	9.57
0D10031-CAL6	25	689159	27566.360	9.57
0D10031-CAL7	50	1415590	28311.800	9.57
0D10031-CAL8	100	3310270	33102.700	9.57
0D10031-CAL9	200	7310519	36552.590	9.57

AVE RF **27789.080** RF RSD **15.82** AVE RT **9.57**

Toxaphene 6 [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	24338	2433.800	9.57
0D10031-CALR	50	103198	2063.960	9.57
0D10031-CALS	100	194265	1942.650	9.57
0D10031-CALT	200	370159	1850.795	9.57
0D10031-CALU	500	958890	1917.780	9.57
0D10031-CALV	1000	1938338	1938.338	9.57
0D10031-CALW	2000	4041319	2020.660	9.57

AVE RF **2023.998** RF RSD **9.56** AVE RT **9.57**

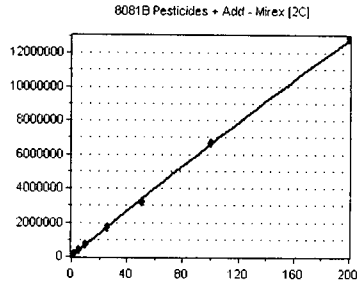
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Mirex [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

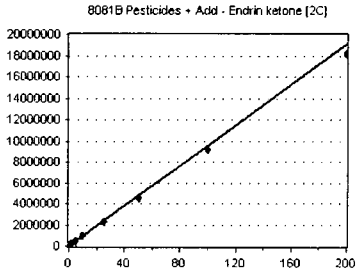


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	60436	120872.000	9.79
0D10031-CALB	1	100894	100894.000	9.79
0D10031-CALC	2	167144	83572.000	9.79
0D10031-CALD	5	369585	73917.000	9.79
0D10031-CALE	10	672336	67233.600	9.79
0D10031-CALF	25	1721066	68842.640	9.79
0D10031-CALG	50	3205930	64118.600	9.79
0D10031-CALH	100	6667267	66672.670	9.79
0D10031-CALI	200	1.292903E+07	64645.150	9.79

AVE RF **78974.180** RF RSD **24.93** AVE RT **9.79**

Endrin ketone [2C]

Curve Fit: **AVERAGE RF**

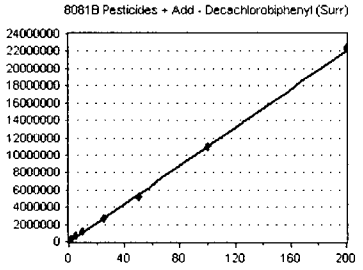


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	57366	114732.000	9.80
0D10031-CAL2	1	100622	100622.000	9.80
0D10031-CAL3	2	188983	94491.500	9.80
0D10031-CAL4	5	464140	92828.000	9.80
0D10031-CAL5	10	942335	94233.500	9.80
0D10031-CAL6	25	2250304	90012.160	9.80
0D10031-CAL7	50	4537747	90754.940	9.80
0D10031-CAL8	100	9234850	92348.500	9.80
0D10031-CAL9	200	1.821171E+07	91058.550	9.80

AVE RF **95675.680** RF RSD **8.16** AVE RT **9.80**

Decachlorobiphenyl (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

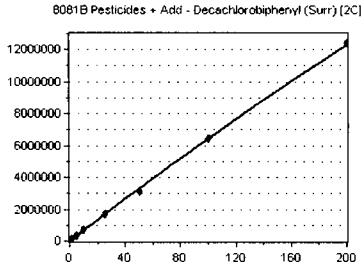


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	78745	157490.000	9.81
0D10031-CAL2	1	135418	135418.000	9.81
0D10031-CAL3	2	249594	124797.000	9.81
0D10031-CAL4	5	587016	117403.200	9.81
0D10031-CAL5	10	1130527	113052.700	9.81
0D10031-CAL6	25	2727108	109084.300	9.81
0D10031-CAL7	50	5172590	103451.800	9.81
0D10031-CAL8	100	1.096751E+07	109675.100	9.81
0D10031-CAL9	200	2.243062E+07	112153.100	9.81

AVE RF **120280.600** RF RSD **14.04** AVE RT **9.81**

Decachlorobiphenyl (Surr) [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	50449	100898.000	10.68
0D10031-CAL2	1	81619	81619.000	10.68
0D10031-CAL3	2	153175	76587.500	10.68
0D10031-CAL4	5	364366	72873.200	10.68
0D10031-CAL5	10	701737	70173.700	10.68
0D10031-CAL6	25	1659485	66379.400	10.68
0D10031-CAL7	50	3177027	63540.540	10.68
0D10031-CAL8	100	6496705	64967.050	10.68
0D10031-CAL9	200	1.244066E+07	62203.300	10.68

AVE RF **73249.080** RF RSD **16.63** AVE RT **10.68**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D10031

Analysis Included

1311/8081B TCLP Pest Reg List
1311/8081B TCLP Pest Reg List +ADD
1311/8081B TCLP Pesticides (All)
1311/8081B TCLP Pesticides + Add (All)
1312/8081B SPLP Pesticides
608 Additionals Only (QC)
608 Pest (Chlordane)
608 Pesticides
608 Pesticides (DDT Only)
608 Pesticides (SW)
608 Pesticides (SW) Full List
608 Pesticides (TTO)
608.3 Pesticides
608.3 Additionals
608.3 Chlordane
608.3 Toxaphene
8081B Pesticides
8081B 2,4+4,4-DDx Only (+Add)
8081B Chlordane
8081B DDT Only
8081B Pesticides + Add
8081B Pesticides + Add (Diss)
8081B RSET FW Sed (+Add) (2016)
8081B RSET Sediment List (+Add)
8081B RSET Sediment Marine (2016) (+Add)
8081B Toxaphene

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D10031

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed
0D10031-ICB1	Initial Cal Blank	Water	A20C404		4/10/2020 12:05:00PM
0D10031-CAL1	Cal Standard	Water	A20D133	"	4/10/2020 12:22:00PM
0D10031-CAL2	Cal Standard	Water	A20D134	"	4/10/2020 12:39:00PM
0D10031-CAL3	Cal Standard	Water	A20C179	"	4/10/2020 12:56:00PM
0D10031-CAL4	Cal Standard	Water	A20C180	"	4/10/2020 1:14:00PM
0D10031-CAL5	Cal Standard	Water	A20C181	"	4/10/2020 1:31:00PM
0D10031-CAL6	Cal Standard	Water	A20C182	"	4/10/2020 1:48:00PM
0D10031-CAL7	Cal Standard	Water	A20C183	"	4/10/2020 2:05:00PM
0D10031-CAL8	Cal Standard	Water	A20C184	"	4/10/2020 2:22:00PM
0D10031-CAL9	Cal Standard	Water	A20C177	"	4/10/2020 2:40:00PM
0D10031-ICV1	Initial Cal Check	Water	A20C164	"	4/10/2020 3:14:00PM
0D10031-CALA	Cal Standard	Water	A20D135	"	4/10/2020 3:31:00PM
0D10031-CALB	Cal Standard	Water	A20C353	"	4/10/2020 3:48:00PM
0D10031-CALC	Cal Standard	Water	A20C354	"	4/10/2020 4:06:00PM
0D10031-CALD	Cal Standard	Water	A20C355	"	4/10/2020 4:23:00PM
0D10031-CALE	Cal Standard	Water	A20C356	"	4/10/2020 4:40:00PM
0D10031-CALF	Cal Standard	Water	A20C357	"	4/10/2020 4:57:00PM
0D10031-CALG	Cal Standard	Water	A20C358	"	4/10/2020 5:14:00PM
0D10031-CALH	Cal Standard	Water	A20C359	"	4/10/2020 5:31:00PM
0D10031-CALI	Cal Standard	Water	A20C352	"	4/10/2020 5:49:00PM
0D10031-ICV2	Initial Cal Check	Water	A20C360	"	4/10/2020 6:23:00PM
0D10031-CALJ	Cal Standard	Water	A20D136	"	4/10/2020 6:40:00PM
0D10031-CALK	Cal Standard	Water	A19K307	"	4/10/2020 6:57:00PM
0D10031-CALL	Cal Standard	Water	A19K308	"	4/10/2020 7:14:00PM
0D10031-CALM	Cal Standard	Water	A19K309	"	4/10/2020 7:31:00PM
0D10031-CALN	Cal Standard	Water	A19K310	"	4/10/2020 7:49:00PM
0D10031-CALO	Cal Standard	Water	A19K311	"	4/10/2020 8:06:00PM
0D10031-CALP	Cal Standard	Water	A19K306	"	4/10/2020 8:23:00PM
0D10031-ICV3	Initial Cal Check	Water	A19K312	"	4/10/2020 8:57:00PM
0D10031-CALQ	Cal Standard	Water	A20D137	"	4/10/2020 9:14:00PM
0D10031-CALR	Cal Standard	Water	A19J417	"	4/10/2020 9:31:00PM
0D10031-CALS	Cal Standard	Water	A19J418	"	4/10/2020 9:48:00PM
0D10031-CALT	Cal Standard	Water	A19J419	"	4/10/2020 10:05:00PM
0D10031-CALU	Cal Standard	Water	A19J420	"	4/10/2020 10:22:00PM
0D10031-CALV	Cal Standard	Water	A19J421	"	4/10/2020 10:39:00PM
0D10031-CALW	Cal Standard	Water	A19J416	"	4/10/2020 10:56:00PM
0D10031-ICV4	Initial Cal Check	Water	A19J422	"	4/10/2020 11:30:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: A0D1308 Instrument: DualECD3F

1311/8081B TCLP Pest Reg L Sequence: 0D10031 Matrix: Water

0D10031-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D10031

0D10031-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALS	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALT	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALU	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALV	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALW	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D10031

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic fit compounds.

✓

Analytes With Quadratic Curve Fits

Qualifier	iMDL	iMRL	Spike Amt	%Difference	OK?	Raise MRL to ?
				———	☐	☐ ———

Analytes listed above have quadratic curve fits. If they are using a weighting otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0D1308** Instrument: **DualECD3F**

608 Pesticides (SW) Full List Sequence: **0D10031** Matrix: **Water**

0D10031-ICV1	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0D10031-ICV2	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0D10031-ICV3	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0D10031-ICV4	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Calibration Report DUALECD3

Method Path : C:\msdchem\3\METHODS\
Method File : ECD3_QUANTPEST_200410.M
Title : Instrument: DualECD3
Last Update : Mon Apr 13 12:07:09 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD3-04102036 2 =ECD3-04102037 3 =ECD3-04102038 4 =ECD3-04102039 5 =ECD3-04
6 =ECD3-04102041 7 =ECD3-04102042 8 =ECD3-04102023 9 =ECD3-04102024

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	1.4811 e5	-----	0.0631
2)		a-BHC	Avg	-----	2.0229 e5	-----	0.0334
3)		g-BHC	Avg	-----	1.7268 e5	-----	0.0388
4)		b-BHC	Avg	-----	6.8222 e4	-----	0.0638
5)		Heptachlor	Avg	-----	1.6375 e5	-----	0.0445
6)		d-BHC	Avg	-----	1.4037 e5	-----	0.1013
7)		Aldrin	Avg	-----	1.6764 e5	-----	0.0423
8)		Heptachlor Expoxide	Avg	-----	1.5638 e5	-----	0.0685
9)		trans-Chlordane	Avg	-----	1.5736 e5	-----	0.0500
10)		cis-Chlordane	Avg	-----	1.5697 e5	-----	0.1041
11)		Endosulfan I	Avg	-----	1.4352 e5	-----	0.0602
12)		4,4'-DDE	Avg	-----	1.4425 e5	-----	0.0621
13)		Dieldrin	Avg	-----	1.6071 e5	-----	0.0358
14)		Endrin	Avg	-----	1.2336 e5	-----	0.0479
15)		4,4'-DDD	Avg	-----	1.2140 e5	-----	0.0623
16)		Endosulfan II	Avg	-----	1.2105 e5	-----	0.0483
17)		4,4'-DDT	Quad	-7.9268 e3	8.5708 e4	2.1159 e2	0.9954
18)		Endrin Aldehyde	Quad	2.3143 e4	1.0274 e5	8.8266	0.9991
19)		Endosulfan Sulfate	Avg	-----	1.2046 e5	-----	0.0832
20)		Methoxychlor	Quad	-1.5557 e3	4.0938 e4	8.7429 e1	0.9983
21)		Endrin Ketone	Avg	-----	1.4405 e5	-----	0.0691
22)	S	DCBP (S)	Quad	2.4812 e4	1.0944 e5	3.5813	0.9990
23)		Hexachlorobutadiene	Quad	2.8009 e4	1.7335 e5	-8.2212 e1	0.9982
24)		Hexachlorobenzene	Quad	2.7021 e4	1.3306 e5	3.4652 e1	0.9982
25)		Oxychlordane	Quad	2.5859 e4	1.2938 e5	1.1860 e1	0.9971
26)		2,4'-DDE	Quad	1.6499 e4	9.0187 e4	2.8032 e1	0.9979
27)		trans-Nonachlor	Quad	2.9850 e4	1.4305 e5	1.5151 e1	0.9966
28)		2,4'-DDD	Quad	1.7750 e4	8.1358 e4	7.0260	0.9974
29)		2,4'-DDT	Avg	-----	7.5279 e4	-----	0.0860
30)		cis-Nonachlor	Quad	3.2391 e4	1.5295 e5	2.5901 e1	0.9984
31)		Mirex	Quad	3.6627 e4	9.8990 e4	-1.3892 e1	0.9947
32)		Chlordane (1)	Avg	-----	1.7650 e4	-----	0.0596
33)		Chlordane (2)	Avg	-----	2.0722 e4	-----	0.0579
34)		Chlordane (3)	Avg	-----	5.3207 e3	-----	0.0515
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	8.3242 e2	-----	0.0891
37)		Toxaphene (2)	Avg	-----	1.5068 e3	-----	0.0560
38)		Toxaphene (3)	Avg	-----	3.1104 e3	-----	0.0311
39)		Toxaphene (4)	Quad	1.6915 e4	2.7954 e3	0.1445	0.9997
40)		Toxaphene (5)	Avg	-----	2.3551 e3	-----	0.0431
41)		Toxaphene (6)	Avg	-----	3.0334 e3	-----	0.0658
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

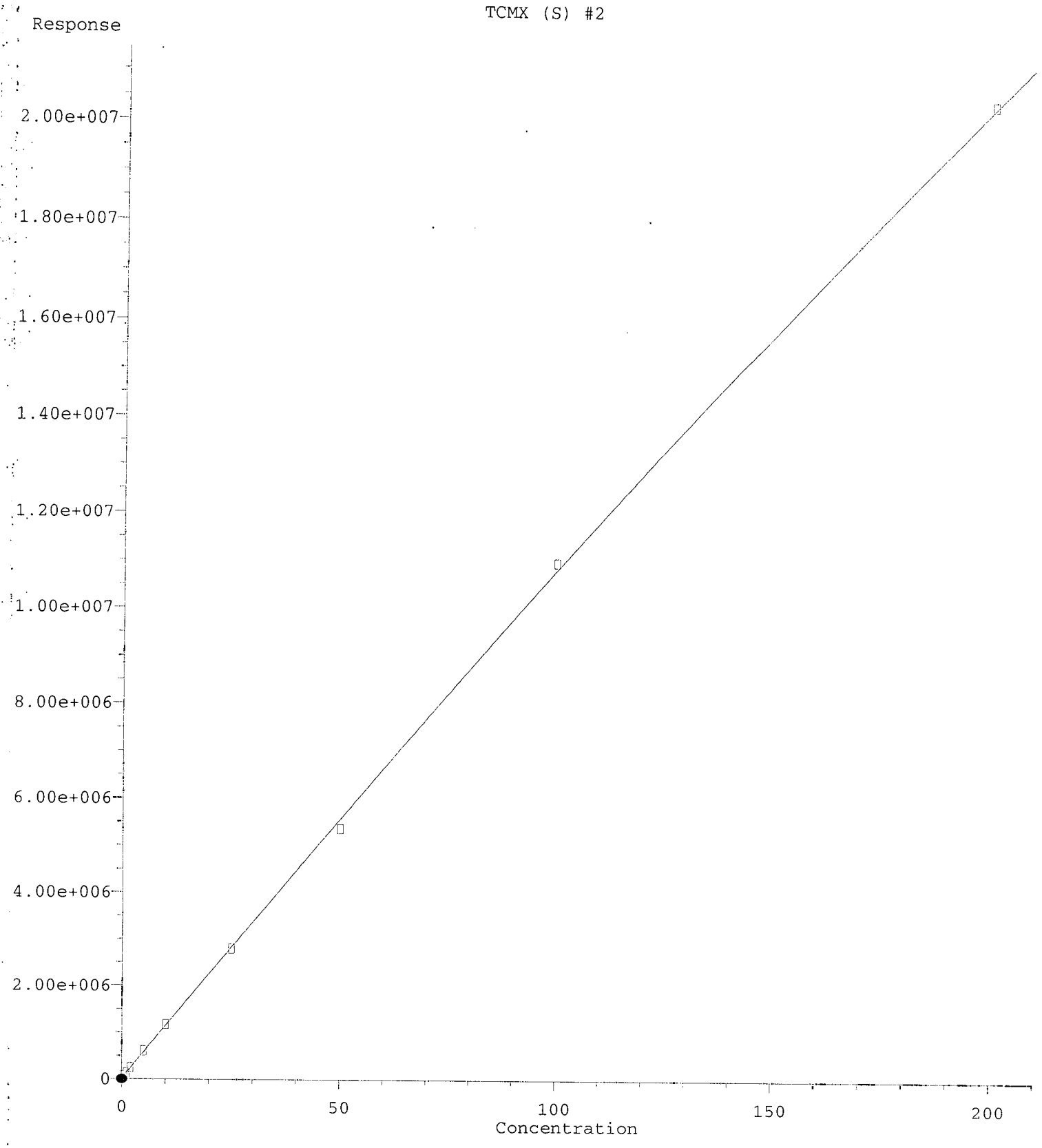
MJB 4/13/20

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Quad	1.5692 e4	1.1382 e5	-6.0412 e1	0.9994
2)		a-BHC	Avg	-----	1.5697 e5	-----	0.0585
3)		g-BHC	Avg	-----	1.3473 e5	-----	0.0563
4)		b-BHC	Avg	-----	6.1416 e4	-----	0.0957
5)		Heptachlor	Avg	-----	1.1320 e5	-----	0.0502
6)		d-BHC	Avg	-----	1.3224 e5	-----	0.0805
7)		Aldrin	Avg	-----	1.3290 e5	-----	0.0722

8)		Heptachlor Expoxide	Avg	-----		1.1769	e5	-----		0.0828
9)		trans-Chlordane	Avg	-----		1.2060	e5	-----		0.0811
10)		cis-Chlordane	Avg	-----		1.1583	e5	-----		0.0962
11)		Endosulfan I	Avg	-----		1.0754	e5	-----		0.0958
12)		4,4'-DDE	Avg	-----		1.1515	e5	-----		0.0516
13)		Dieldrin	Avg	-----		1.1974	e5	-----		0.0628
14)		Endrin	Avg	-----		8.6450	e4	-----		0.0383
15)		4,4'-DDD	Avg	-----		9.4366	e4	-----		0.1022
16)		Endosulfan II	Avg	-----		9.1718	e4	-----		0.0821
17)		4,4'-DDT	Quad	-3.8517	e3	5.4571	e4	1.1875	e2	0.9947
18)		Endrin Aldehyde	Quad	1.9386	e4	8.0327	e4	-2.3577	e1	0.9985
19)		Endosulfan Sulfate	Avg	-----		8.4178	e4	-----		0.0795
20)		Methoxychlor	Quad	-1.1441	e3	2.5750	e4	5.7902	e1	0.9986
21)		Endrin Ketone	Avg	-----		9.5676	e4	-----		0.0816
22)	S	DCBP (S)	Quad	1.6402	e4	6.7481	e4	-2.9599	e1	0.9992
23)		Hexachlorobutadiene	Quad	3.3927	e4	1.6460	e5	-1.9646	e2	0.9980
24)		Hexachlorobenzene	Quad	2.6563	e4	1.0901	e5	-4.9611	e1	0.9979
25)		Oxychlordane	Quad	2.1672	e4	9.8677	e4	-3.0107	e1	0.9962
26)		2,4'-DDE	Quad	1.7867	e4	7.7370	e4	-3.6074	e1	0.9978
27)		trans-Nonachlor	Quad	2.4254	e4	1.1038	e5	-5.6506	e1	0.9972
28)		2,4'-DDD	Quad	1.9342	e4	6.6591	e4	-2.1023	e1	0.9965
29)		2,4'-DDT	Avg	-----		5.3640	e4	-----		0.1041
30)		cis-Nonachlor	Quad	2.7348	e4	1.1634	e5	-4.5635	e1	0.9980
31)		Mirex	Quad	2.8039	e4	6.7732	e4	-1.8988	e1	0.9978
32)		Chlordane (1)	Avg	-----		1.4467	e4	-----		0.0853
33)		Chlordane (2)	Avg	-----		1.2361	e4	-----		0.0911
34)		Chlordane (3)	Quad	1.5604	e4	3.5976	e3	0.0056		0.9978
35)		Chlordane - AVE	Avg	-----		-----		-----		0.0000
36)		Toxaphene (1)	Avg	-----		1.1200	e3	-----		0.0564
37)		Toxaphene (2)	Avg	-----		1.3641	e3	-----		0.0625
38)		Toxaphene (3)	Avg	-----		2.1703	e3	-----		0.1000
39)		Toxaphene (4)	Quad	3.1421	e4	3.1213	e3	0.1138		0.9997
40)		Toxaphene (5)	Quad	5.9133	e3	1.8085	e3	0.0473		0.9995
41)		Toxaphene (6)	Avg	-----		2.0240	e3	-----		0.0956
42)		Toxaphene - AVE	Avg	-----		-----		-----		0.0000

ECD3_QUANTPEST_200410.M Mon Apr 13 14:58:56 2020

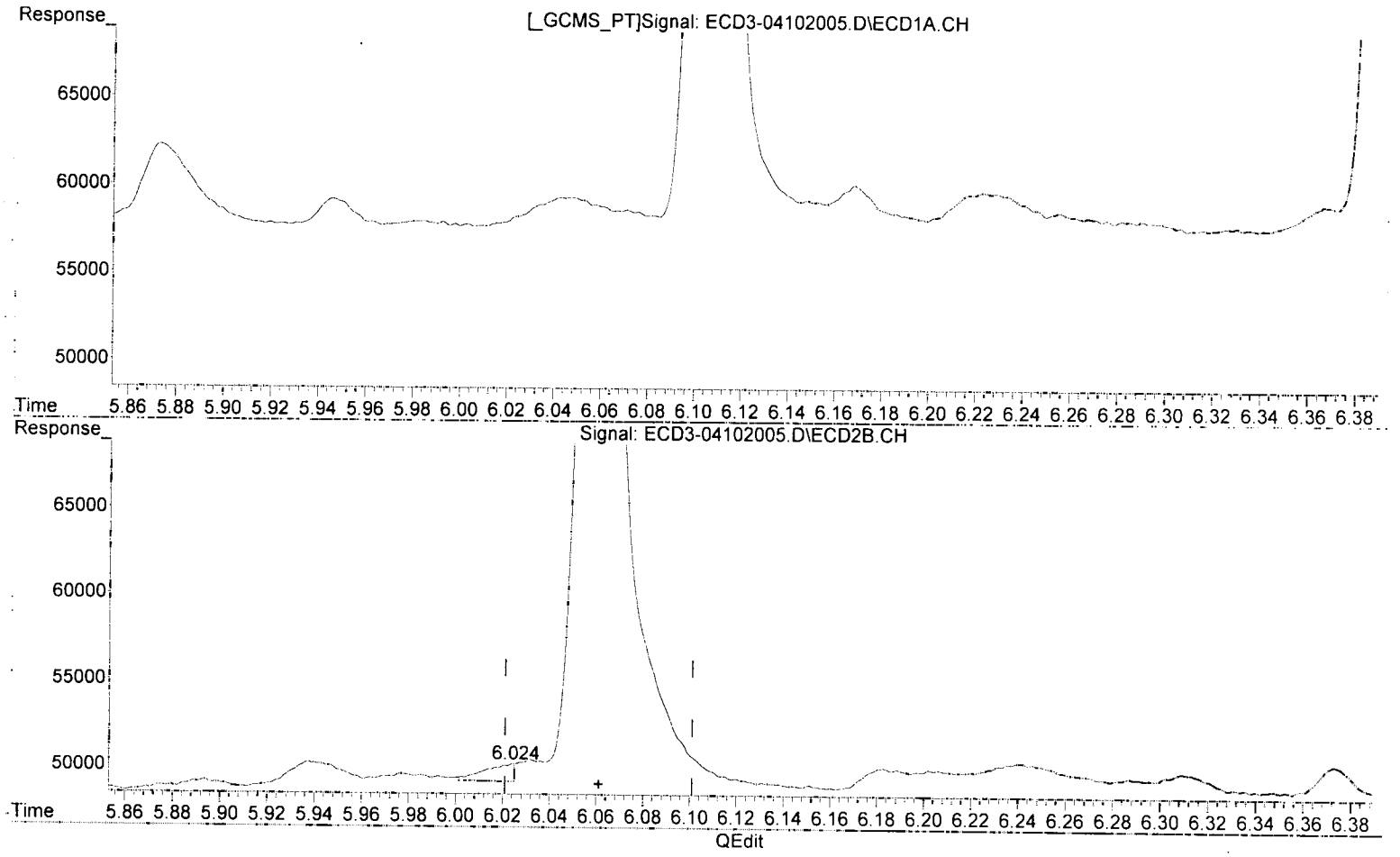


R = -6.04e+001 A*A + 1.14e+005 A + 1.57e+004
Coef of Det (r^2) = 0.9992 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(1) TCMX (S) (S)

5.561min 0.579 ng/mL

response 85749

MJB 4/13/20

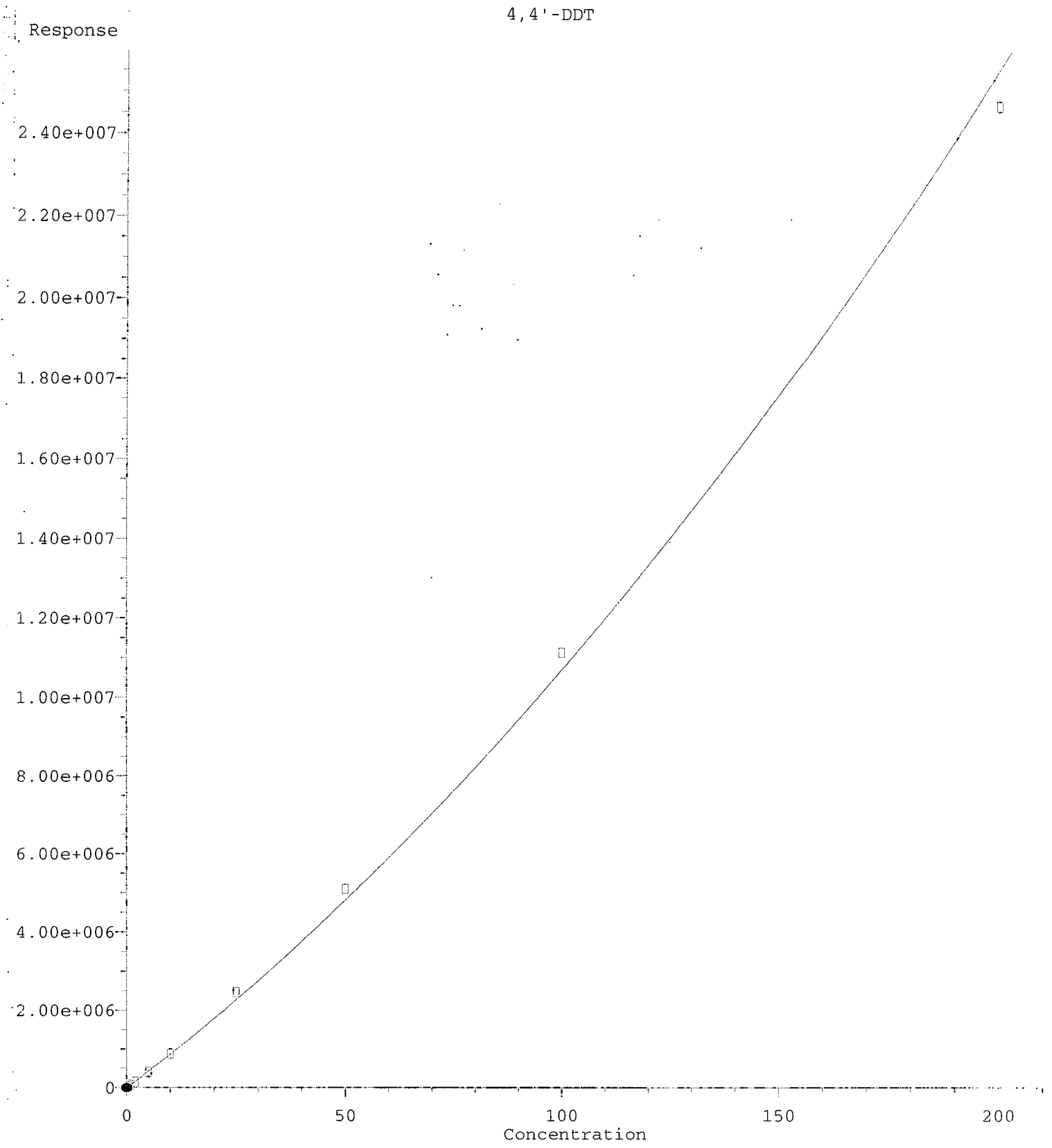
(1) TCMX (S) #2 (S)

6.024min 1884.105 ng/mL (m) Q-DCI

response 1030

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:18:37 2020 Page: 1

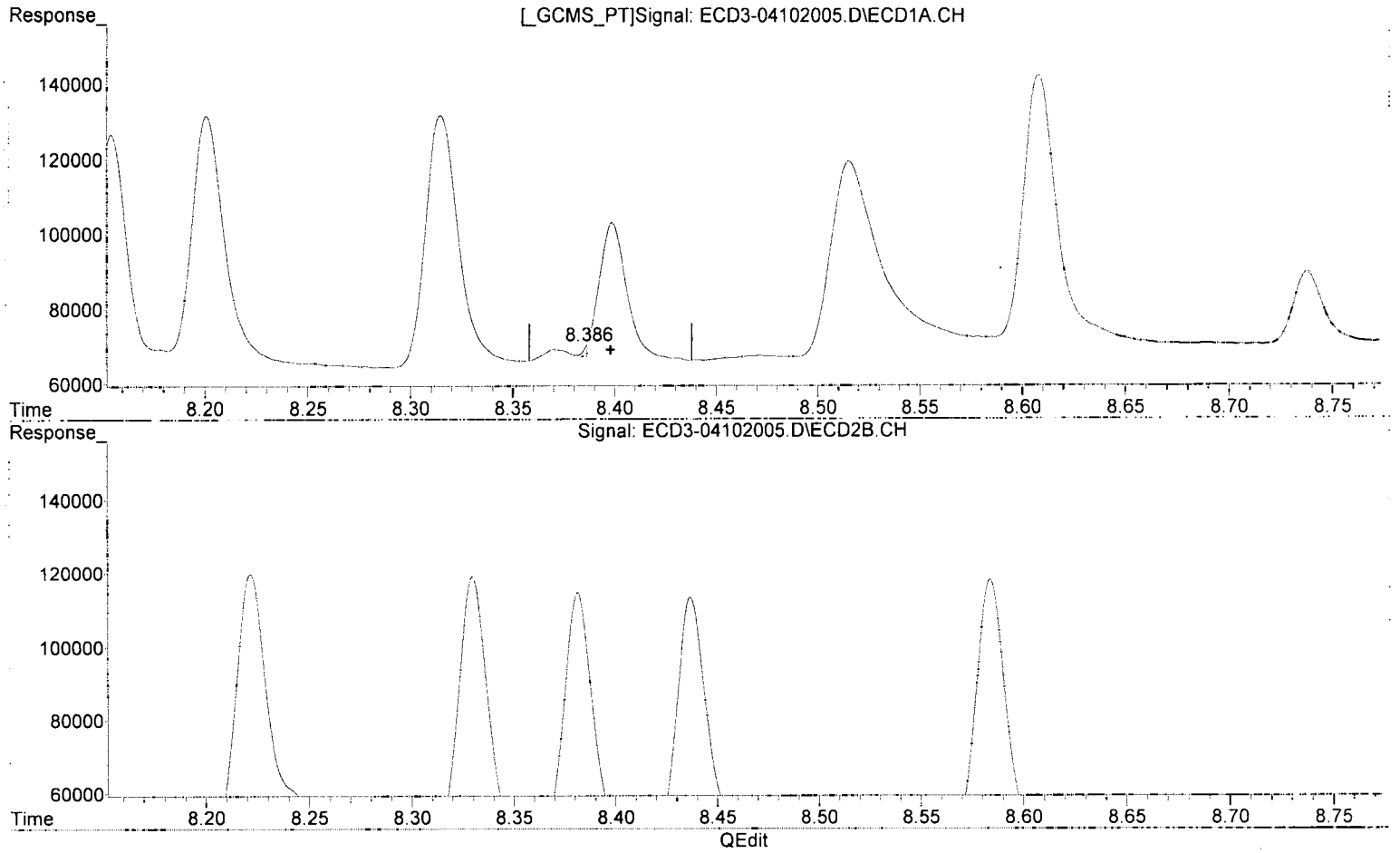


R = 2.12e+002 A*A + 8.57e+004 A - 7.93e+003
Coef of Det (r^2) = 0.9929 Anchor QEA LLC Gasco RI/FS DG 2019-4a-b2 DOC-CAP Testing Cores Page 644 of 1443
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.386min 0.125 ng/mL (m)

response 2810

MB 4/13/20

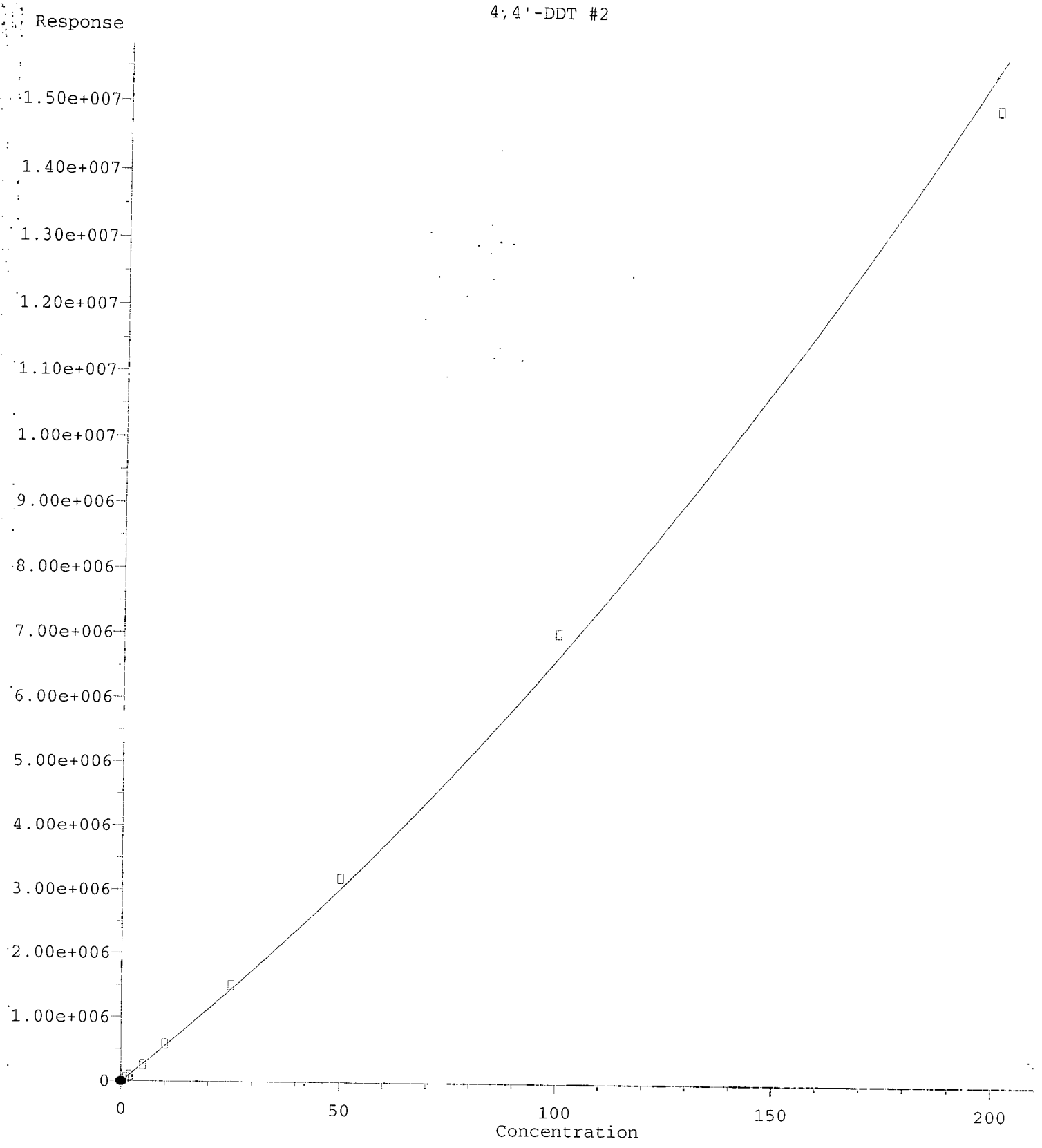
(17) 4,4'-DDT #2

9.084min 0.524 ng/mL

response 24779

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:18:49 2020 Page: 1

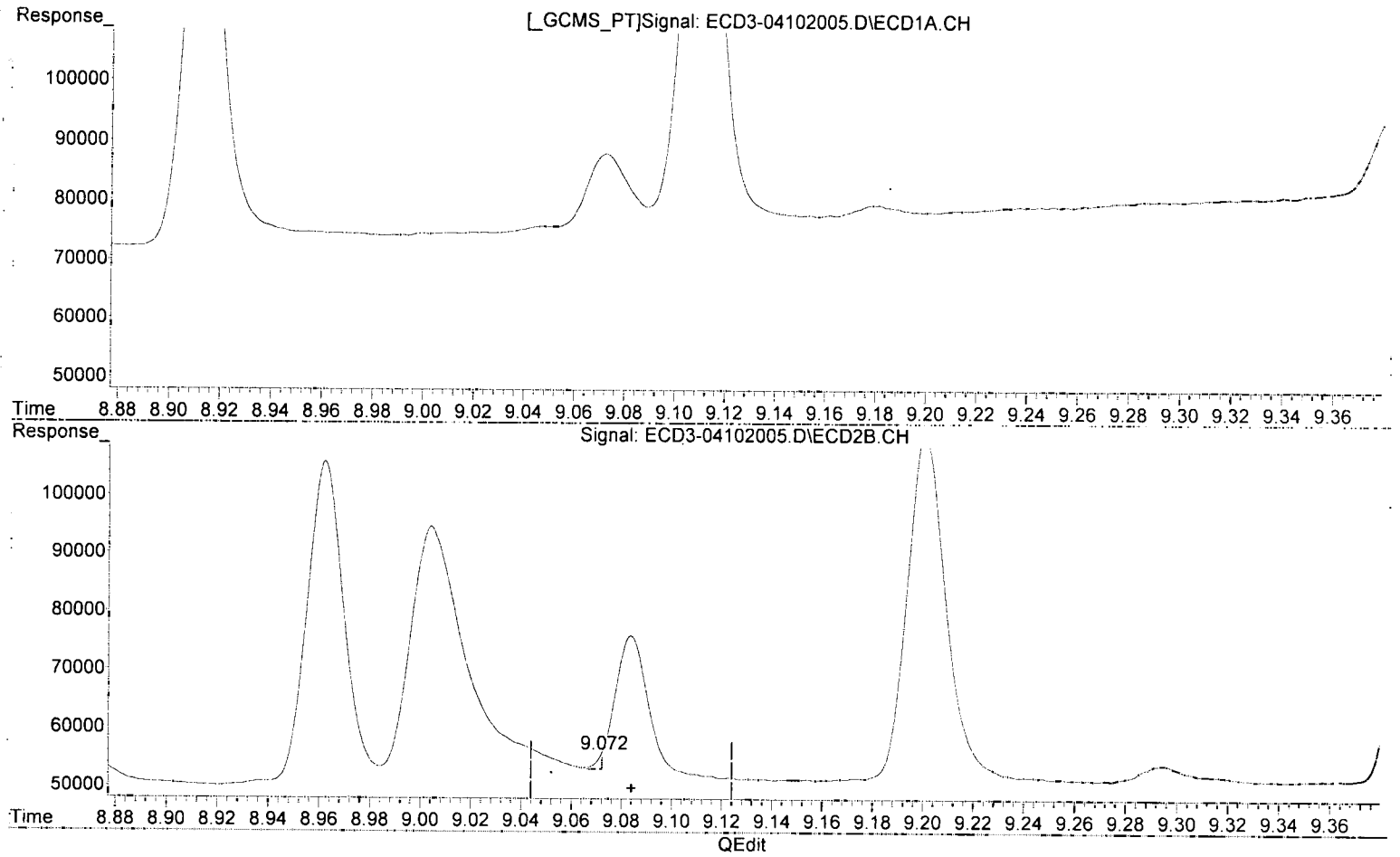


R = 1.19e+002 A*A + 5.46e+004 A - 3.85e+003
Coef of Det (r^2) = 0.9920 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.386min 0.125 ng/mL m

response 2810

MJB 4/13/20

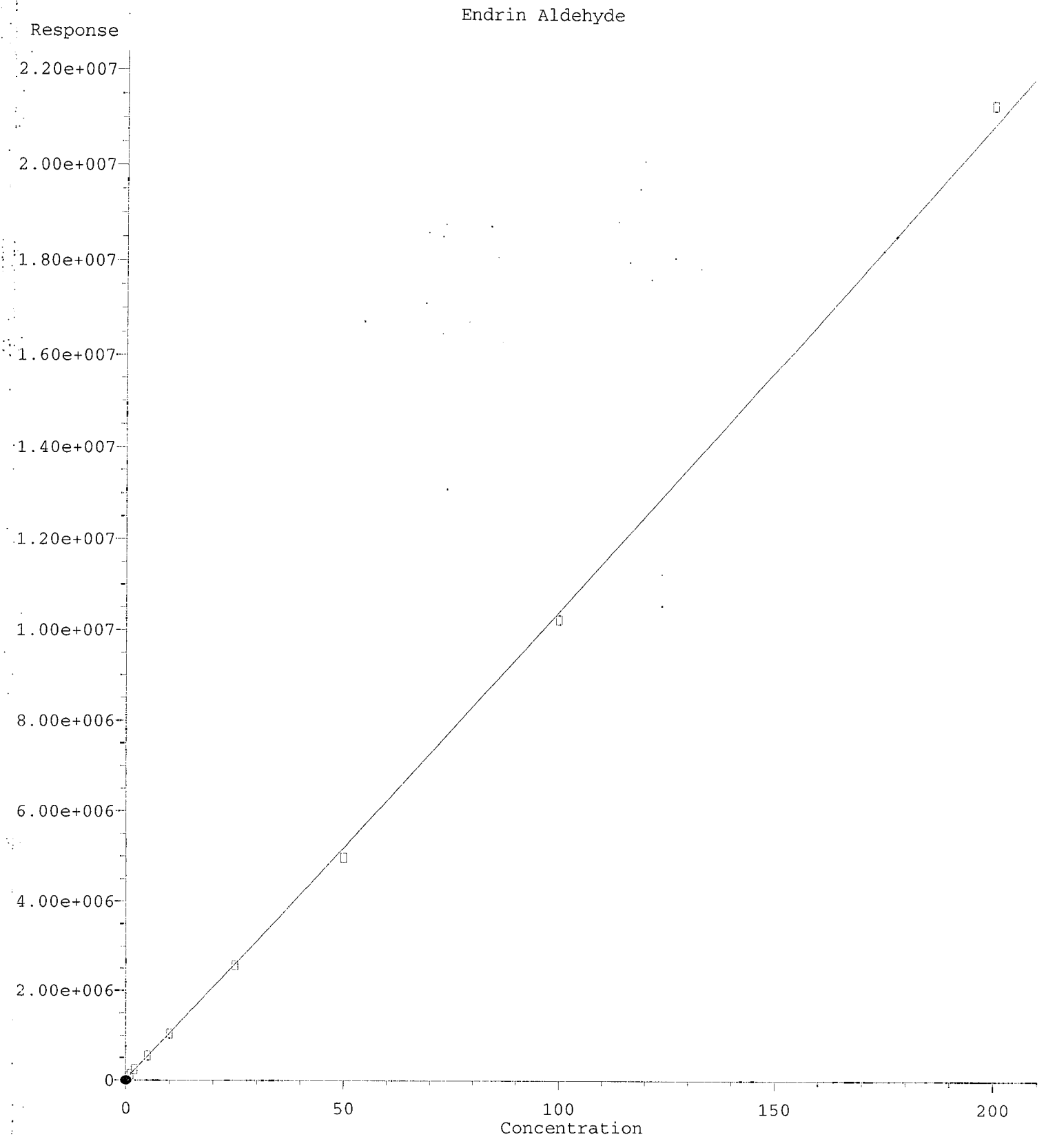
(17) 4,4'-DDT #2

9.072min 0.118 ng/mL (m)

response 2614

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:19:00 2020 Page: 1

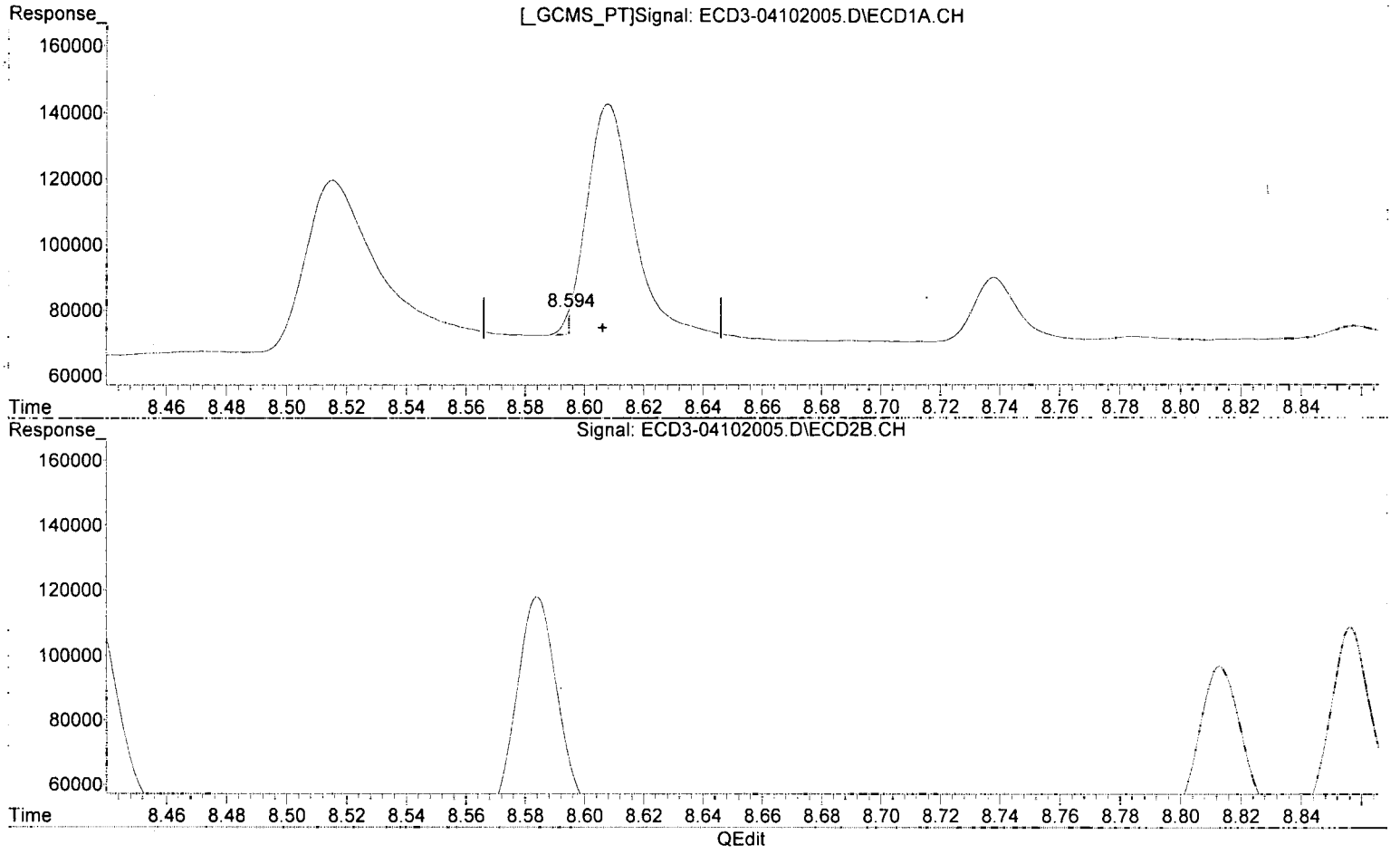


R = 8.83e+000 A*A + 1.03e+005 A + 2.31e+004
Coef of Det (r^2) = 0.9999 Anchor QEA, LLC - Quadrant_DG 2019-4a-2
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(18) Endrin Aldehyde

8.594min -0.156 ng/mL (m)

response 7081

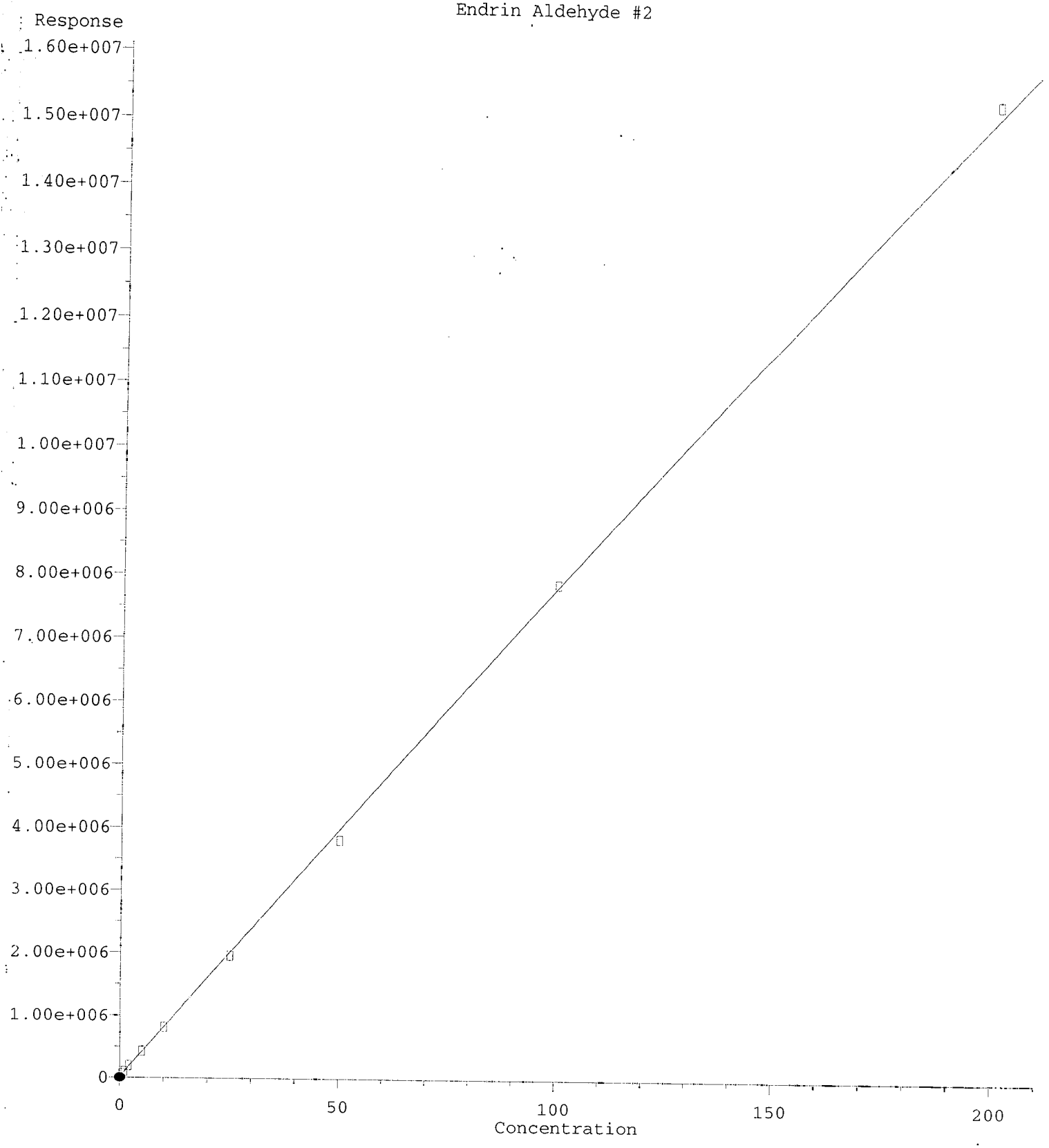
MJB 4/13/20

(18) Endrin Aldehyde #2

9.201min 0.490 ng/mL

response 58732

(+) = Expected Retention Time

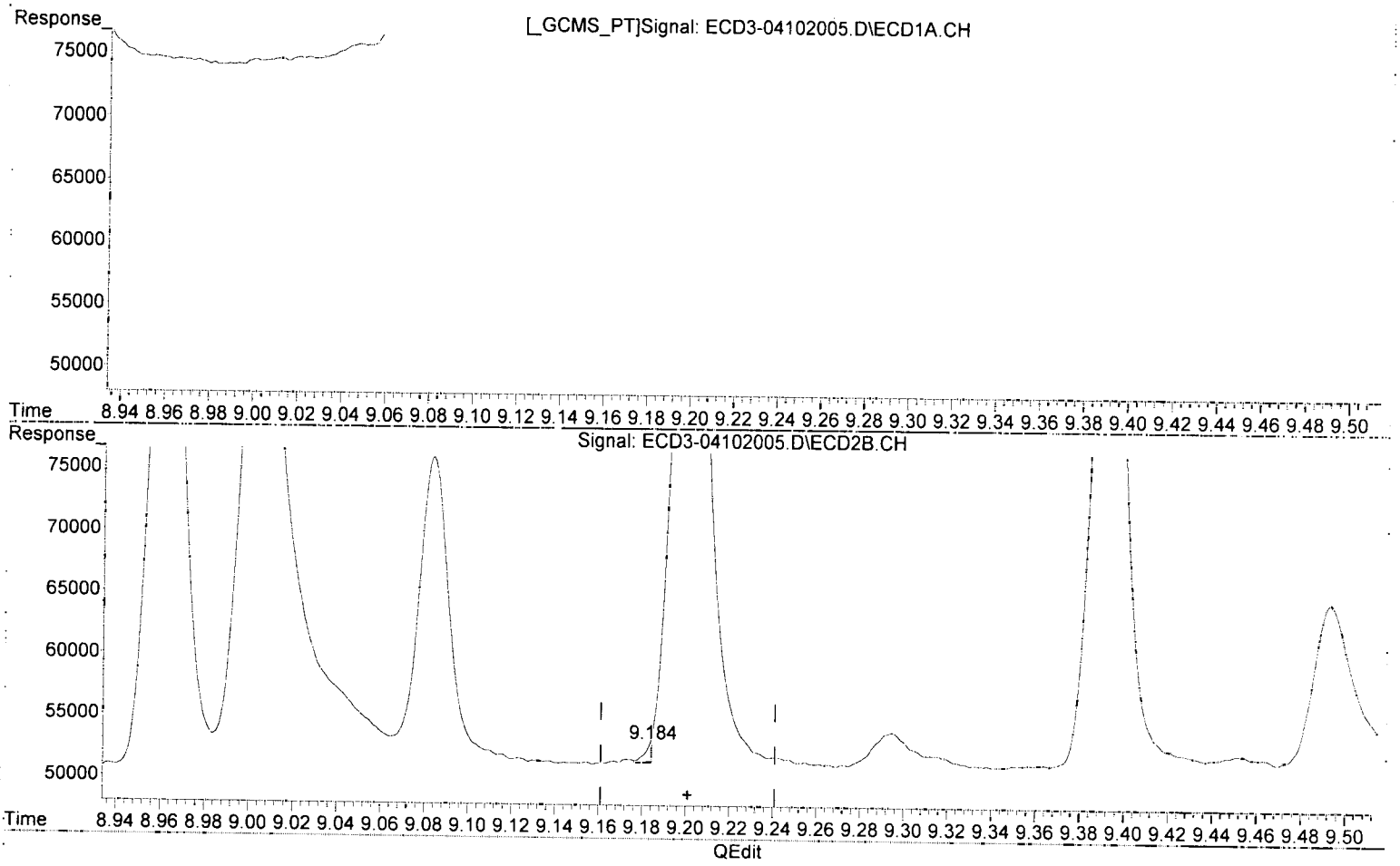


R = -2.36e+001 A*A + 8.03e+004 A + 1.94e+004
Coef of Det (r^2) = 0.9982 Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(18) Endrin Aldehyde

8.594min -0.156 ng/mL m

response 7081

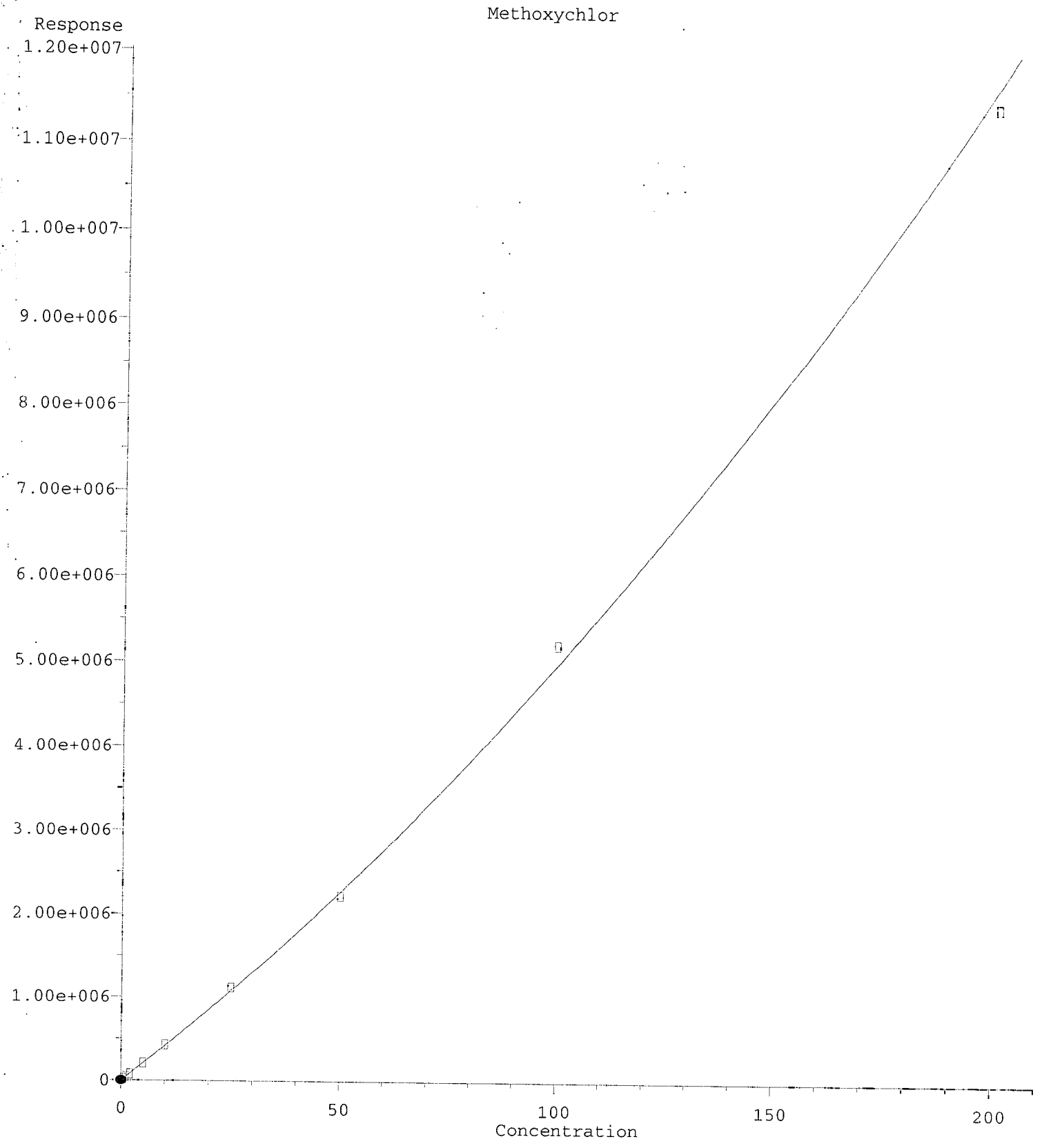
MJB 4/13/20

(18) Endrin Aldehyde #2

9.184min 3407/189 ng/mL (m) QDel

response 1523

(+) = Expected Retention Time

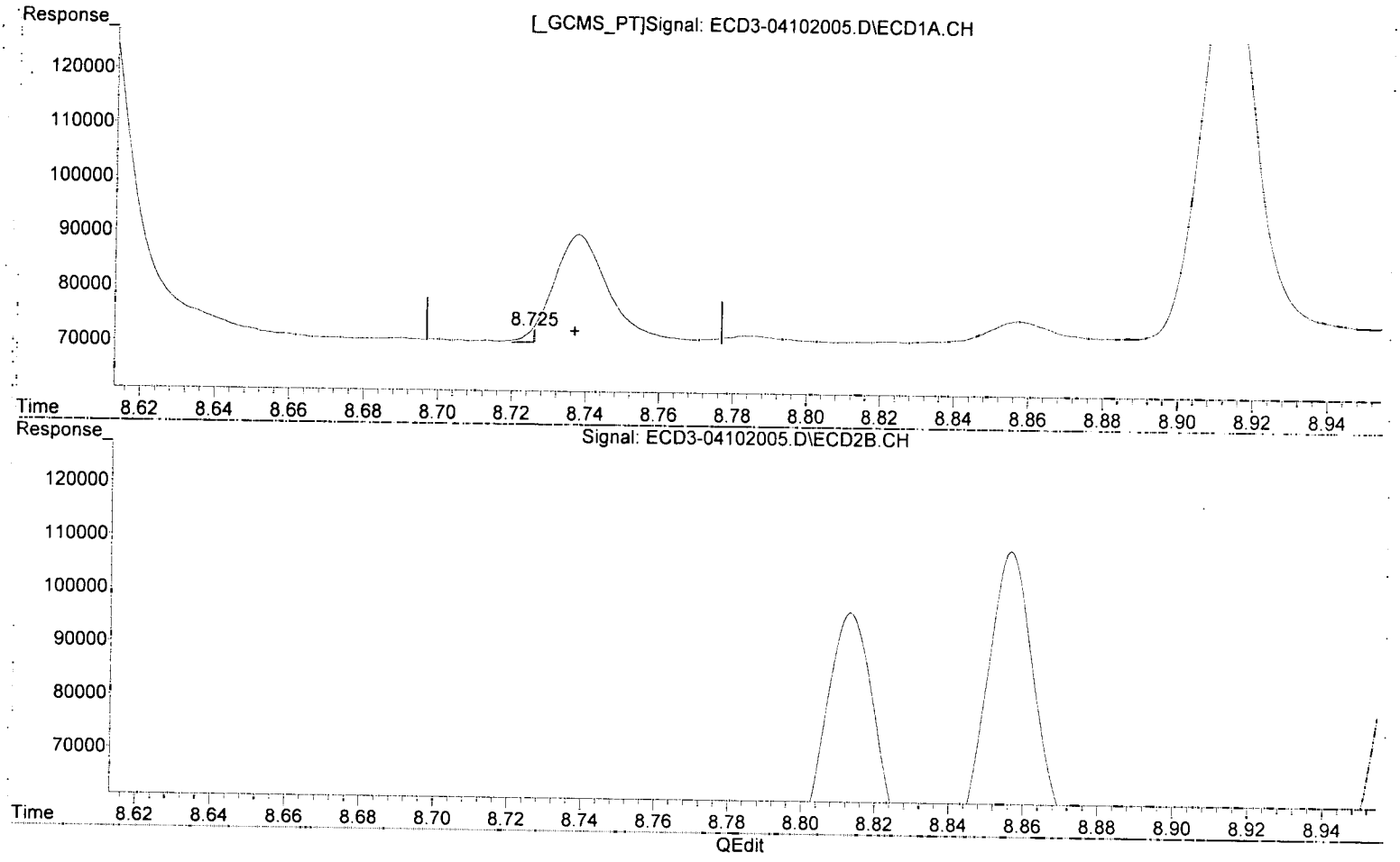


R = 8.74e+001 A*A + 4.09e+004 A - 1.56e+003
Coef of Det (r^2) = 0.9998 Quadratic w/(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Methoxychlor

8.725min 0.093 ng/mL m

response 2250

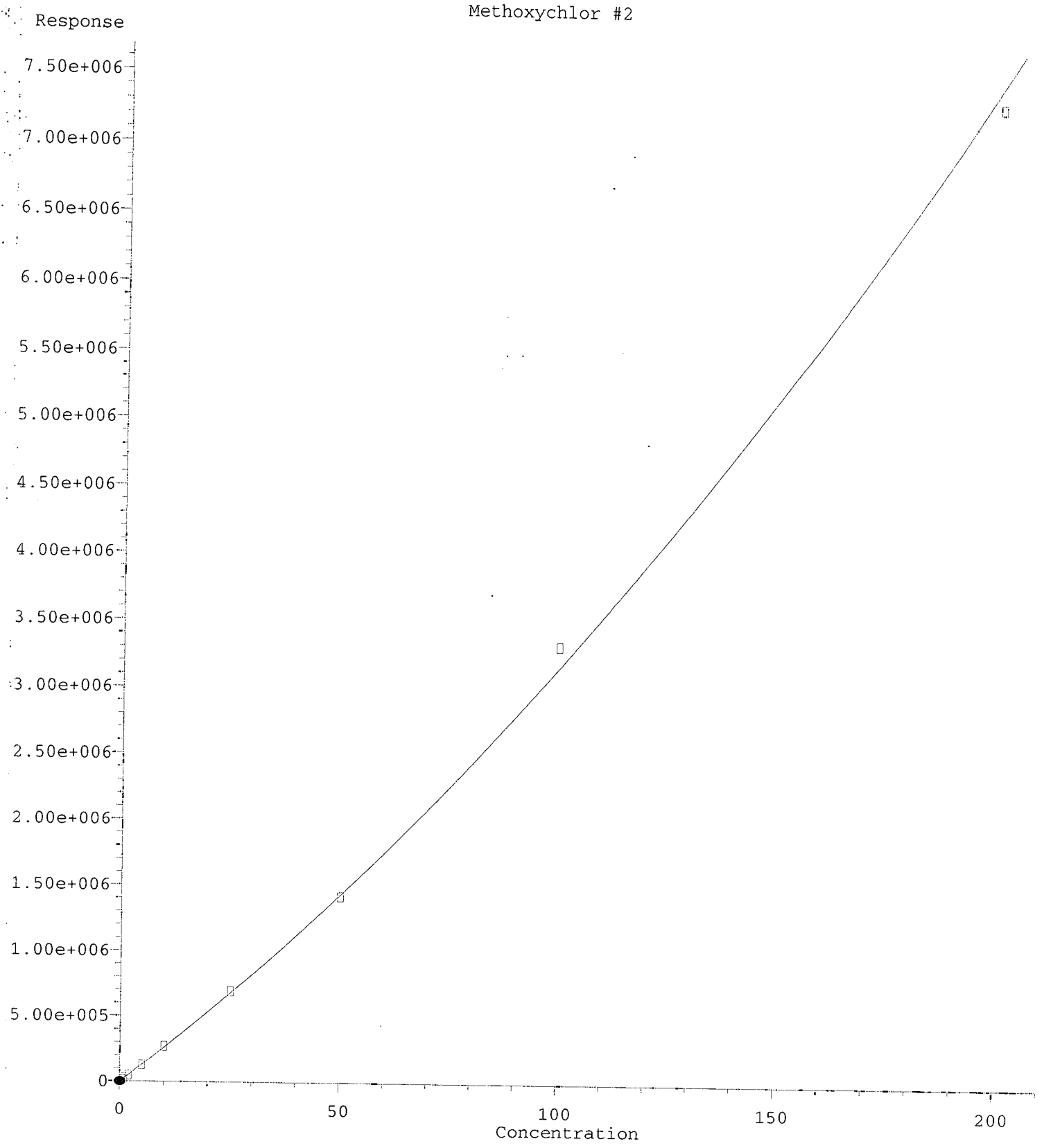
MB 4/13/20

(20) Methoxychlor #2

9.568min 0.506 ng/mL

response 11909

(+) = Expected Retention Time

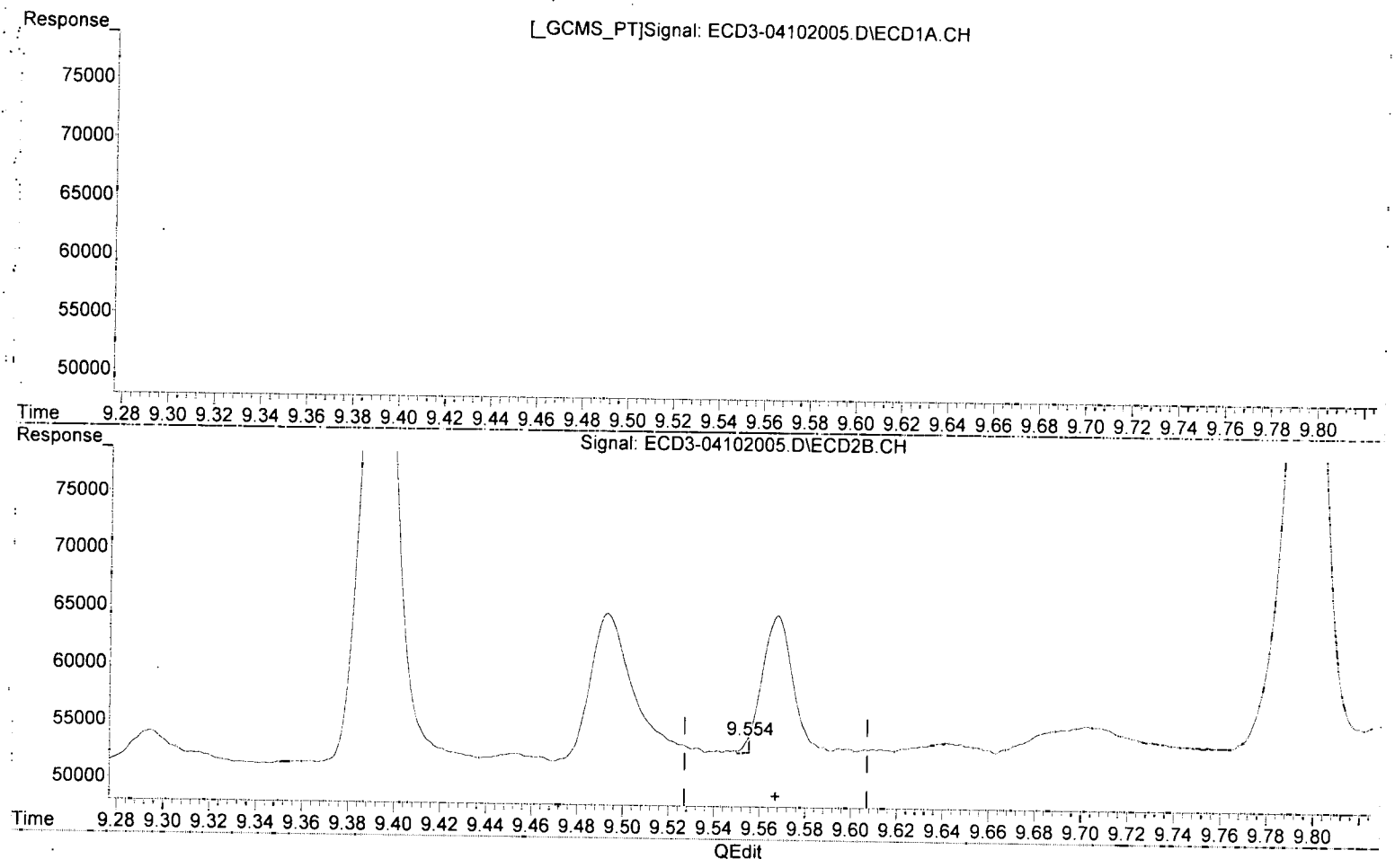


R = 5.79e+001 A*A + 2.58e+004 A - 1.14e+003
Coef of Det (r^2) = 0.999 Curve Type: Quadratic, 1/Conc^2 weighted
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Methoxychlor

8.725min 0.093 ng/mL m

response 2250

MJB 4/13/20

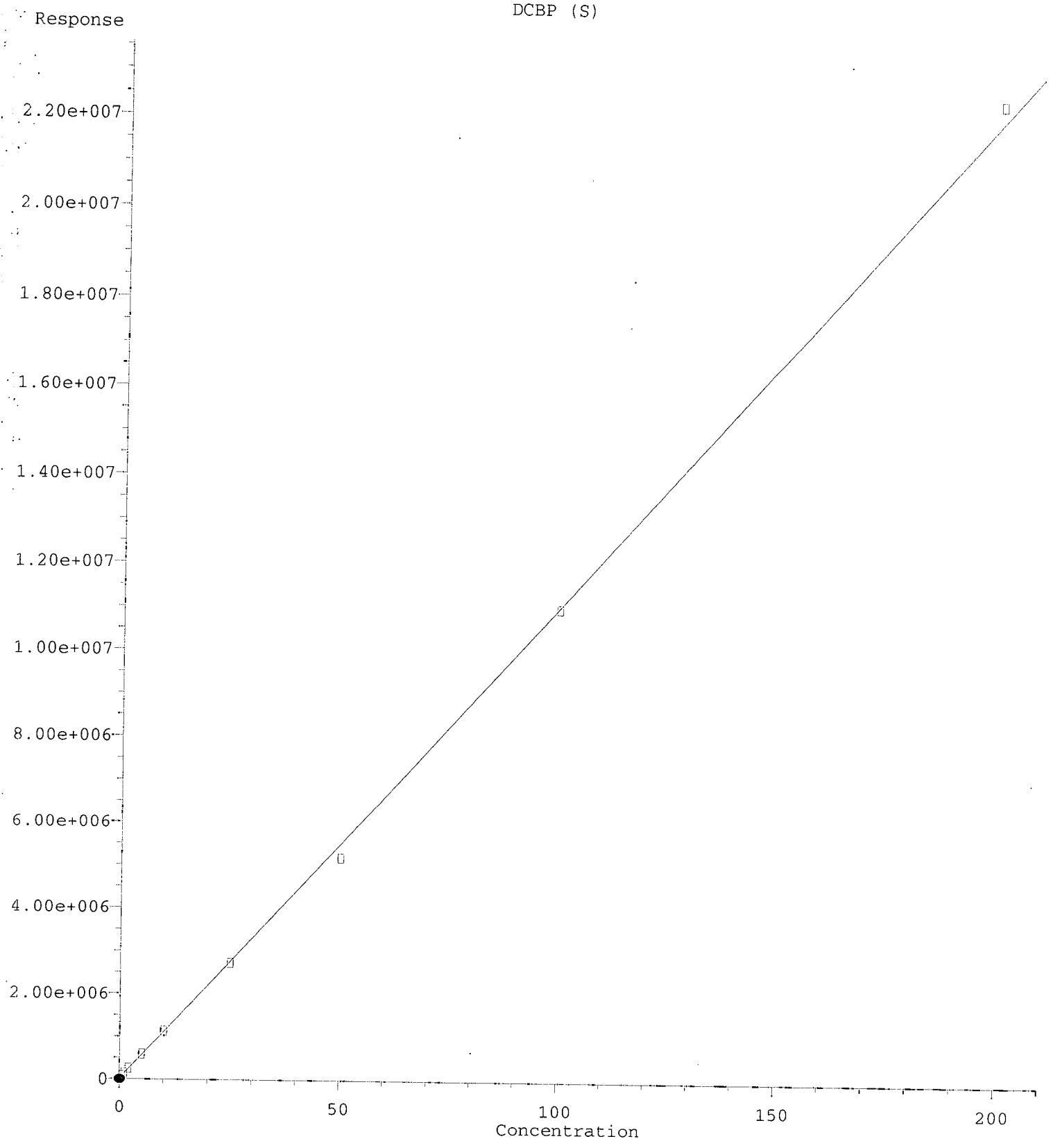
(20) Methoxychlor #2

9.554min 0.088 ng/mL m

response 1132

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:19:48 2020

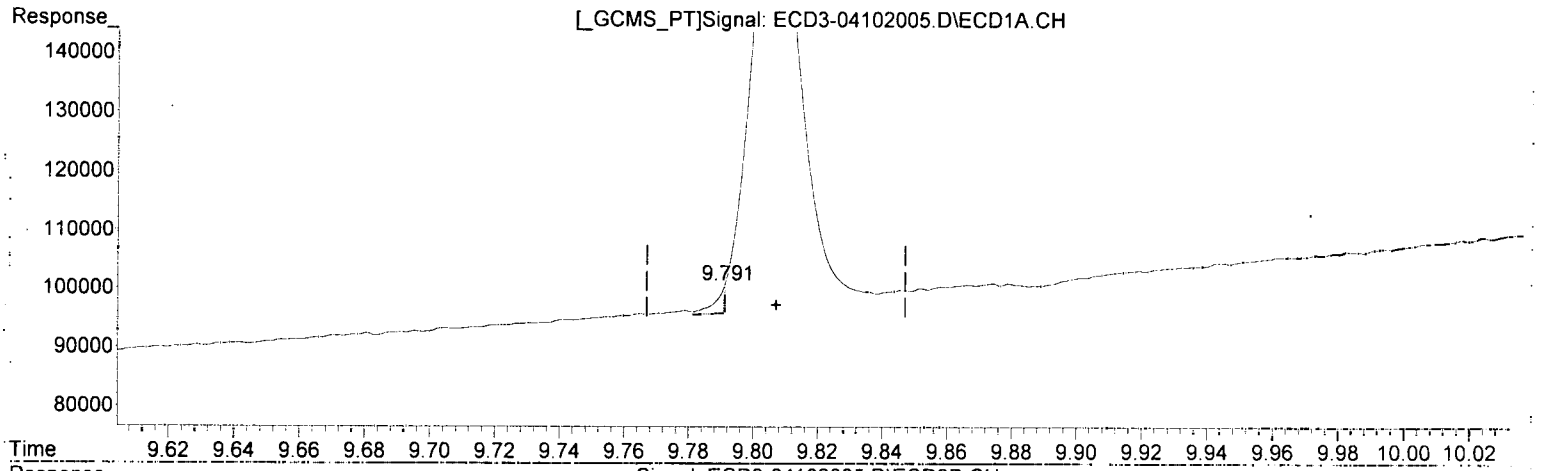


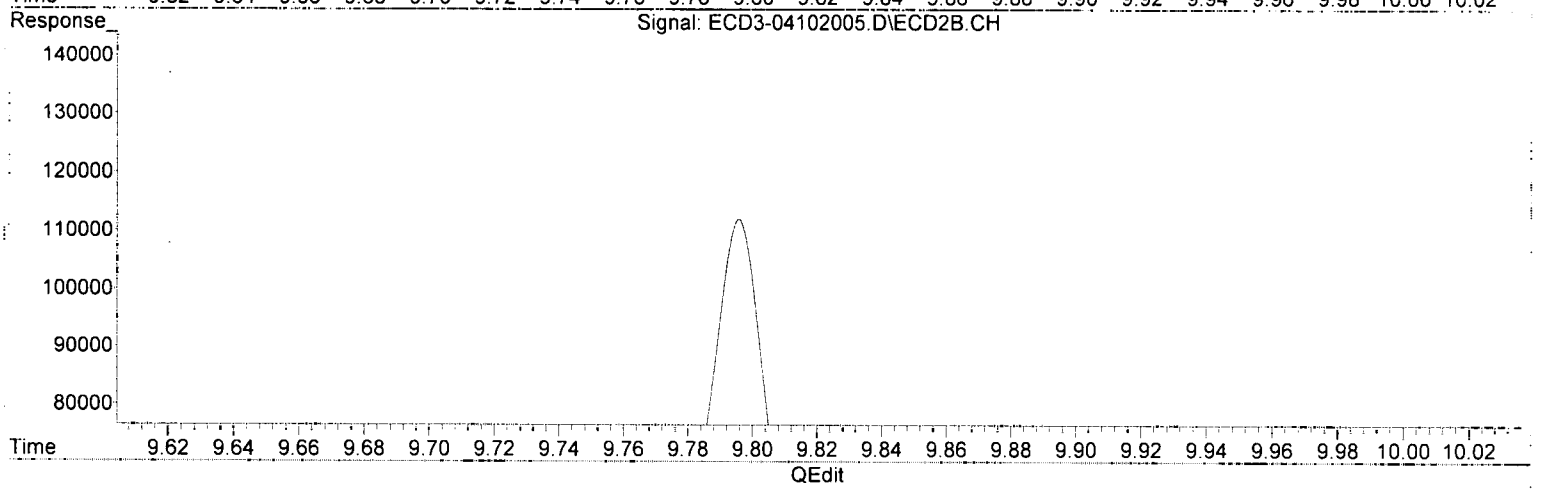
R = 3.58e+000 A*A + 1.09e+005 A + 2.48e+004
Coef of Det (r^2) = 0.999920 Curve Fit: Quadratic w/(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(22) DCBP (S) (S)

9.791min -0.183 ng/mL

response 4759

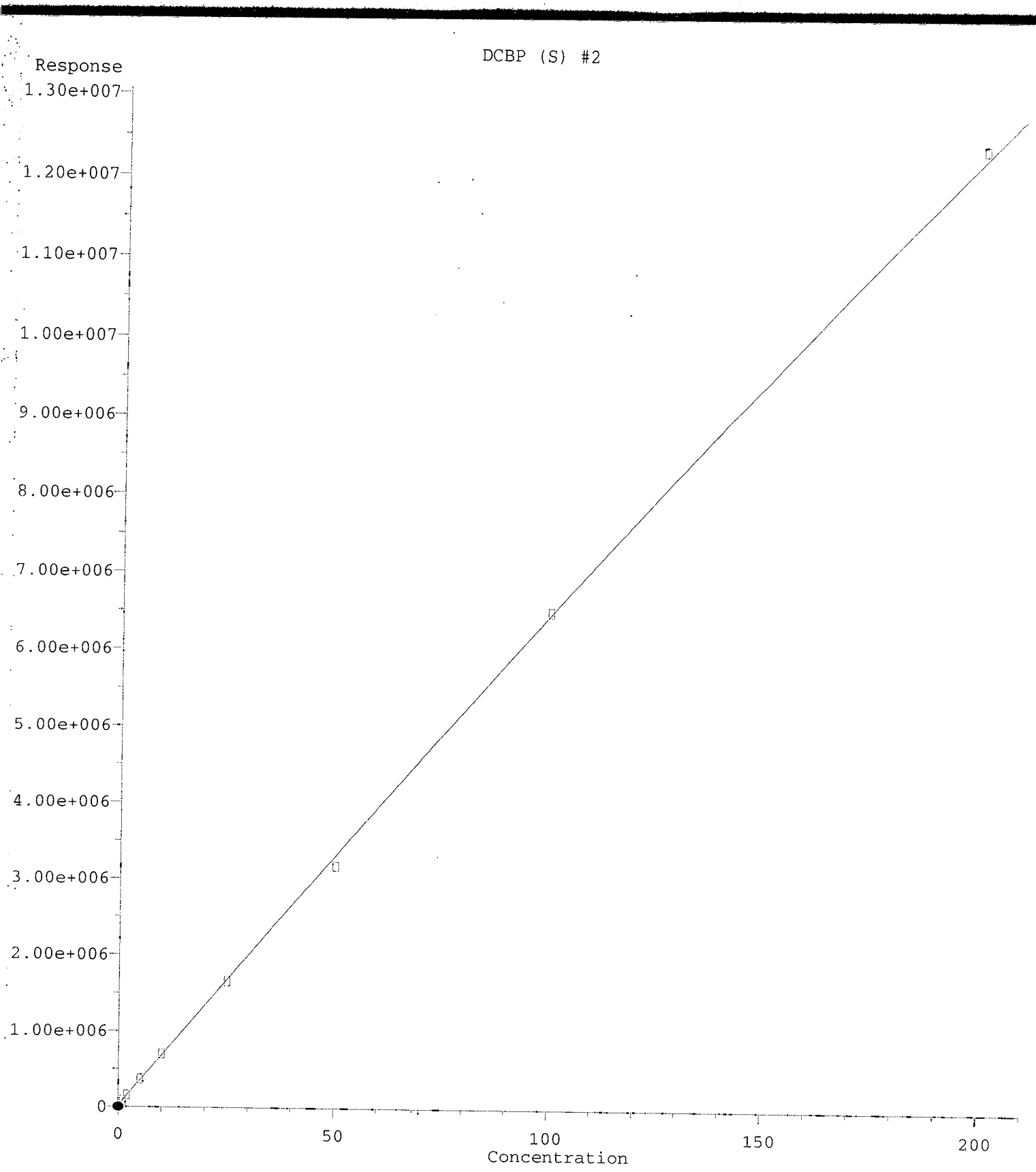
MB 4/13/20

(22) DCBP (S) #2 (S)

10.678min 0.505 ng/mL

response 50449

(+) = Expected Retention Time

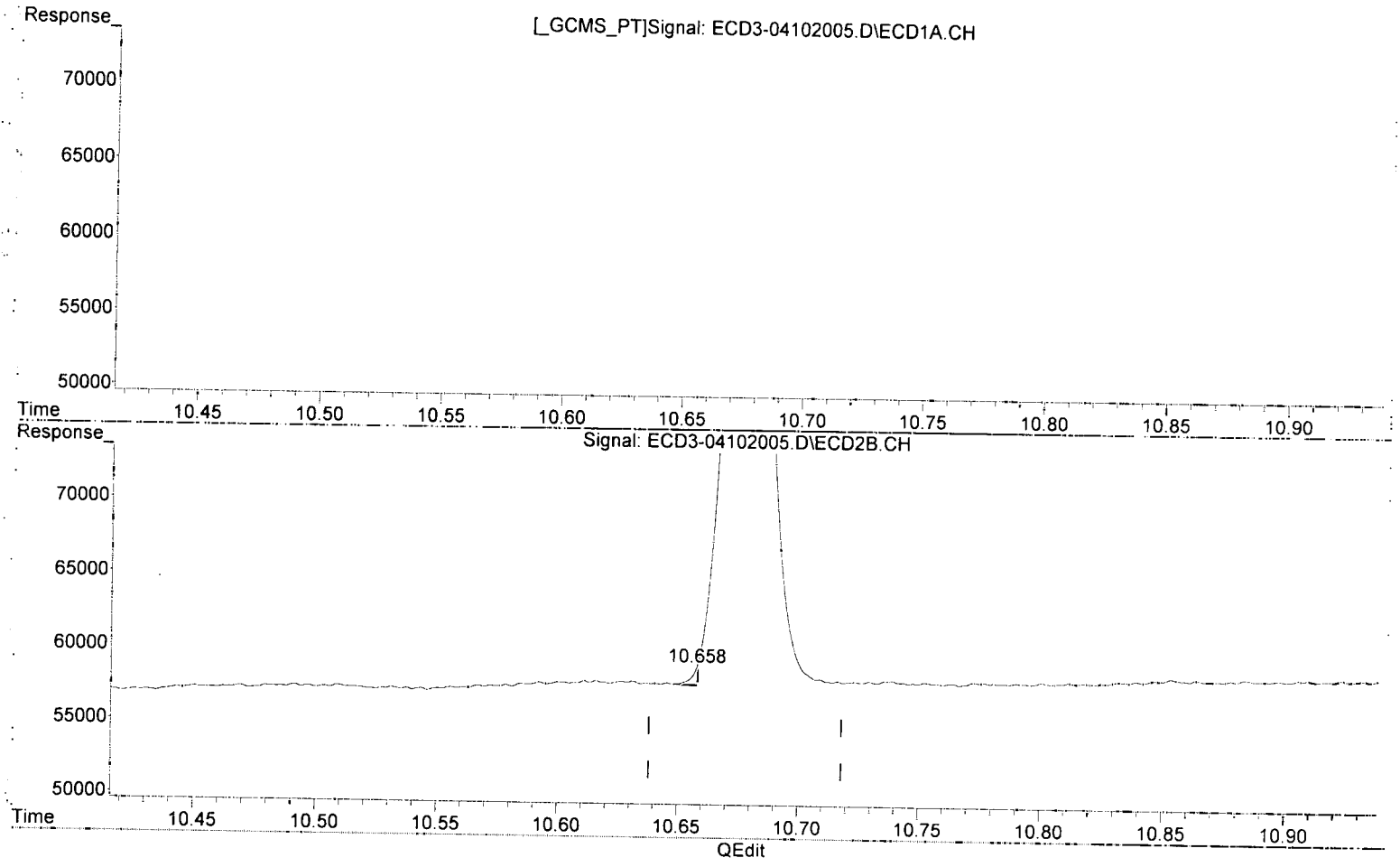


R = -2.96e+001 A*A + 6.75e+004 A + 1.64e+004
Coef of Det (r^2) = 0.999
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(22) DCBP (S) (S)

9.791min -0.183 ng/mL m

response 4759

MJB 4/13/20

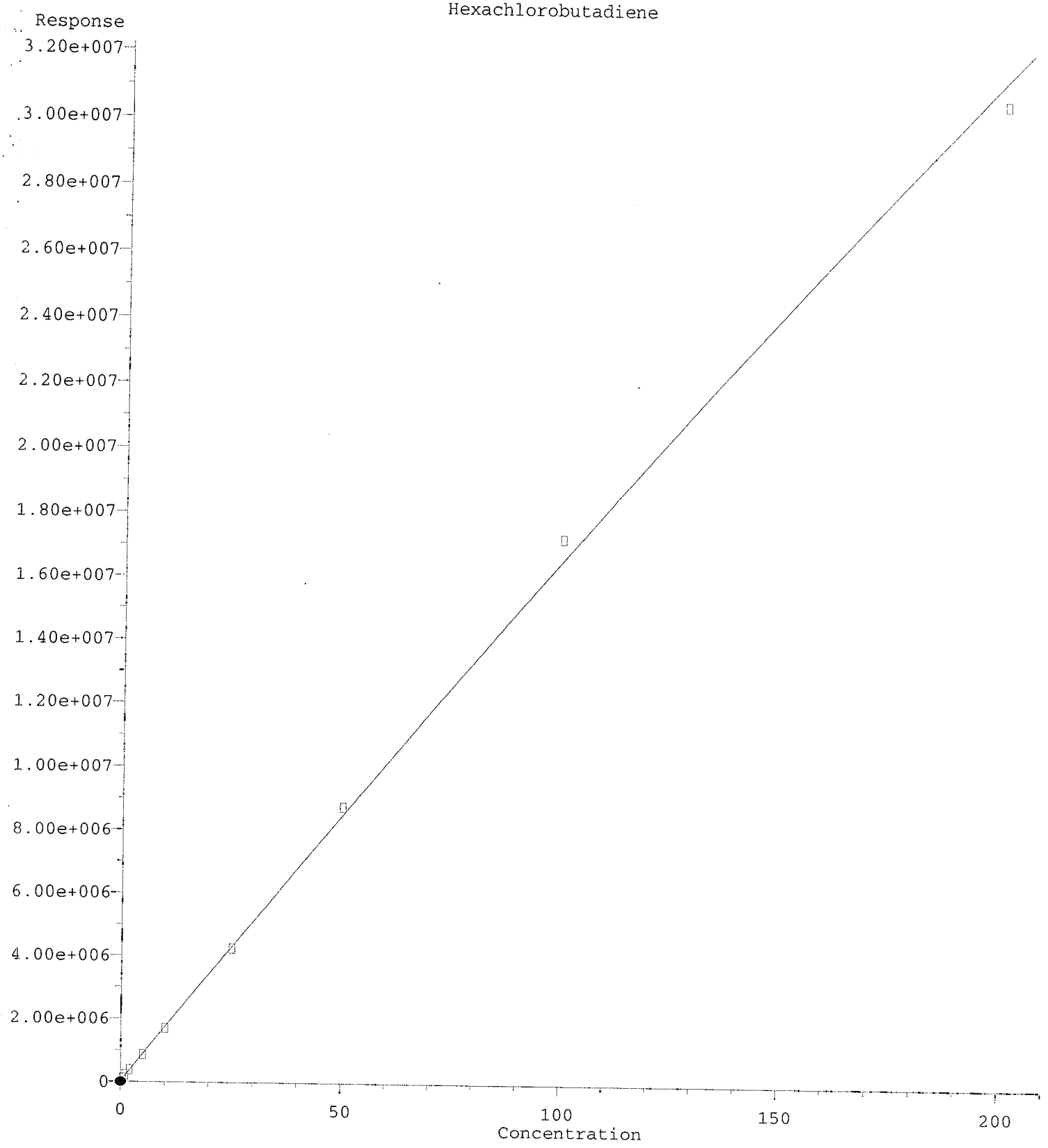
(22) DCBP (S) #2 (S)

10.658min 2280.071 ng/mL m QSM

response 1244

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:20:07 2020

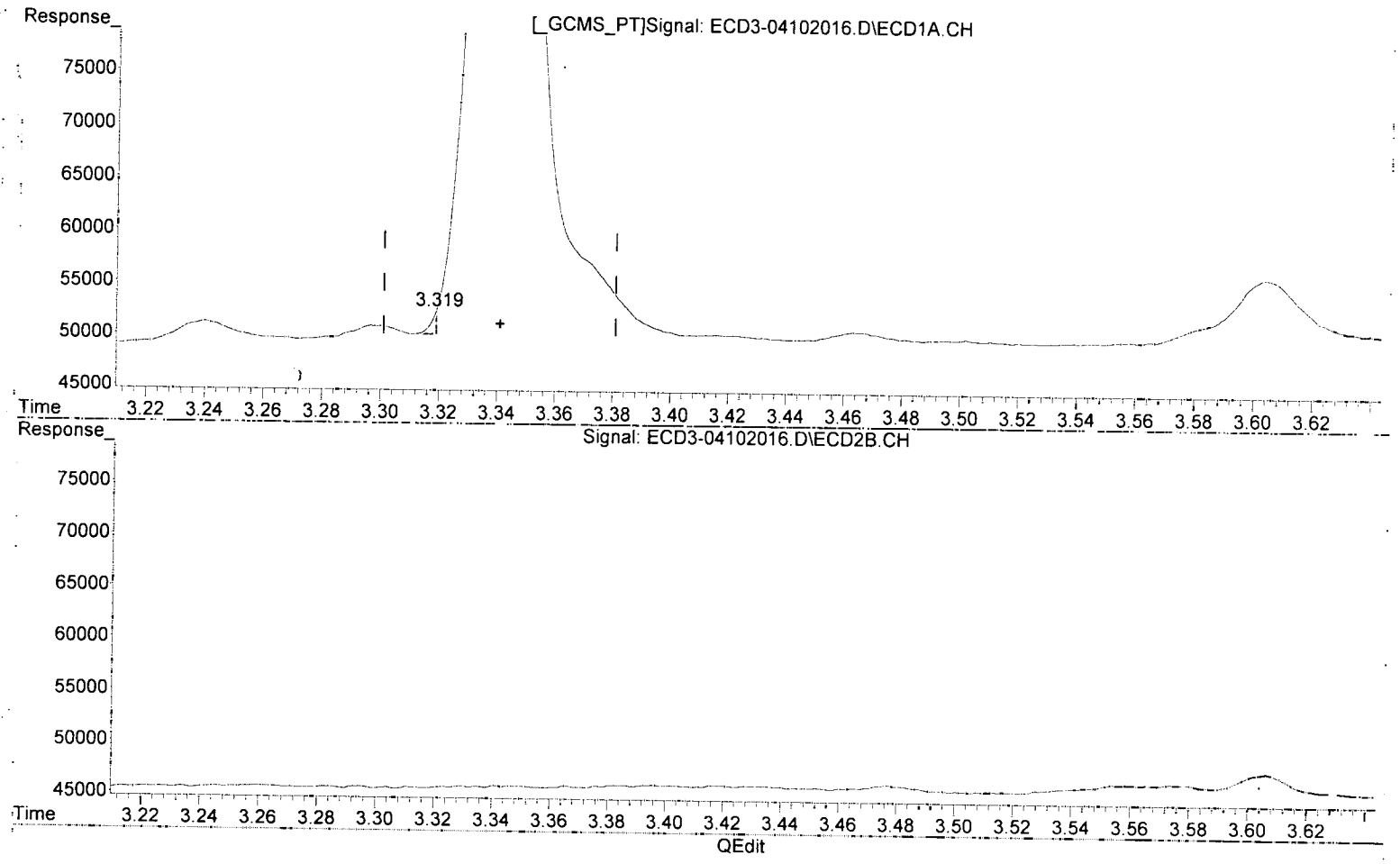


R = -8.22e+001 A*A + 1.73e+005 A + 2.80e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quad Pre RL DG 2019 (4a2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(23) Hexachlorobutadiene

3.319min 2108.689 ng/mL (m) QDCI

response 2256

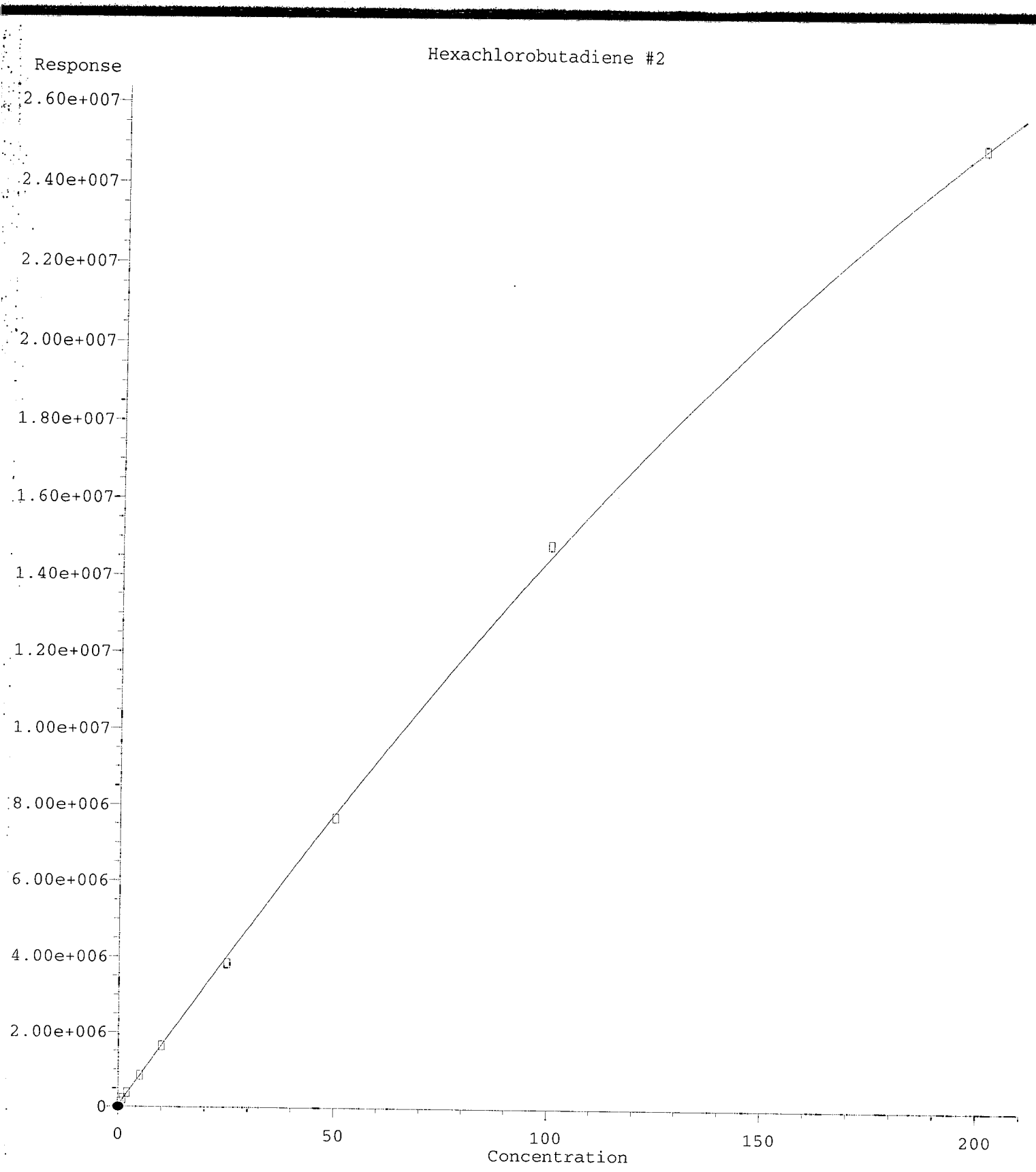
WB 4/13/20

(23) Hexachlorobutadiene #2

3.736min 0.479 ng/mL

response 112755

(+) = Expected Retention Time

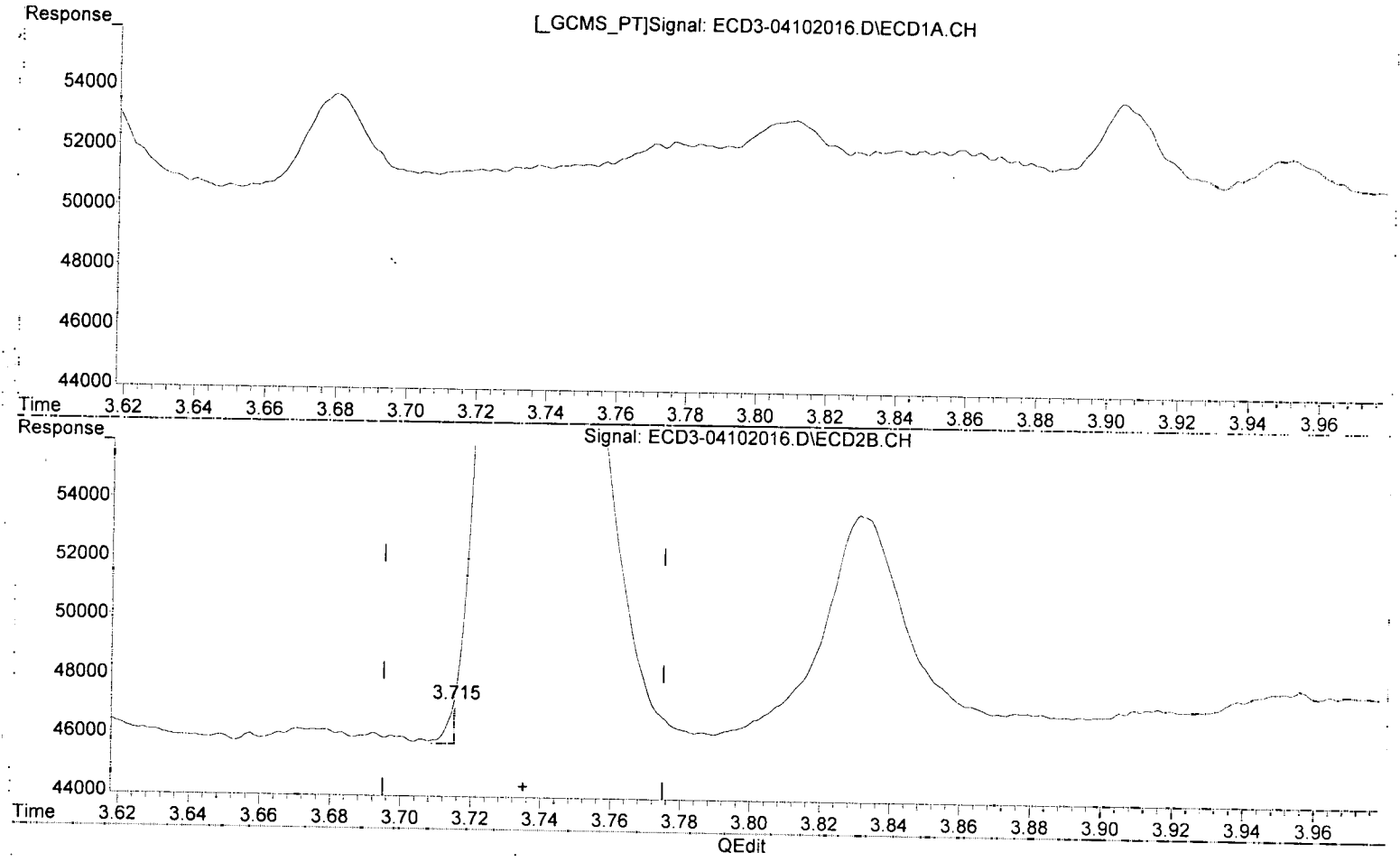


R = -1.96e+002 A*A + 1.65e+005 A + 3.39e+004
Coef of Det (r^2) = 0.988 Curve Fit : Quadratic, Origin = Ignored
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 10:24:05 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(23) Hexachlorobutadiene

3.319min 2108.689 ng/mL m

response 2256

MP 4/13/20

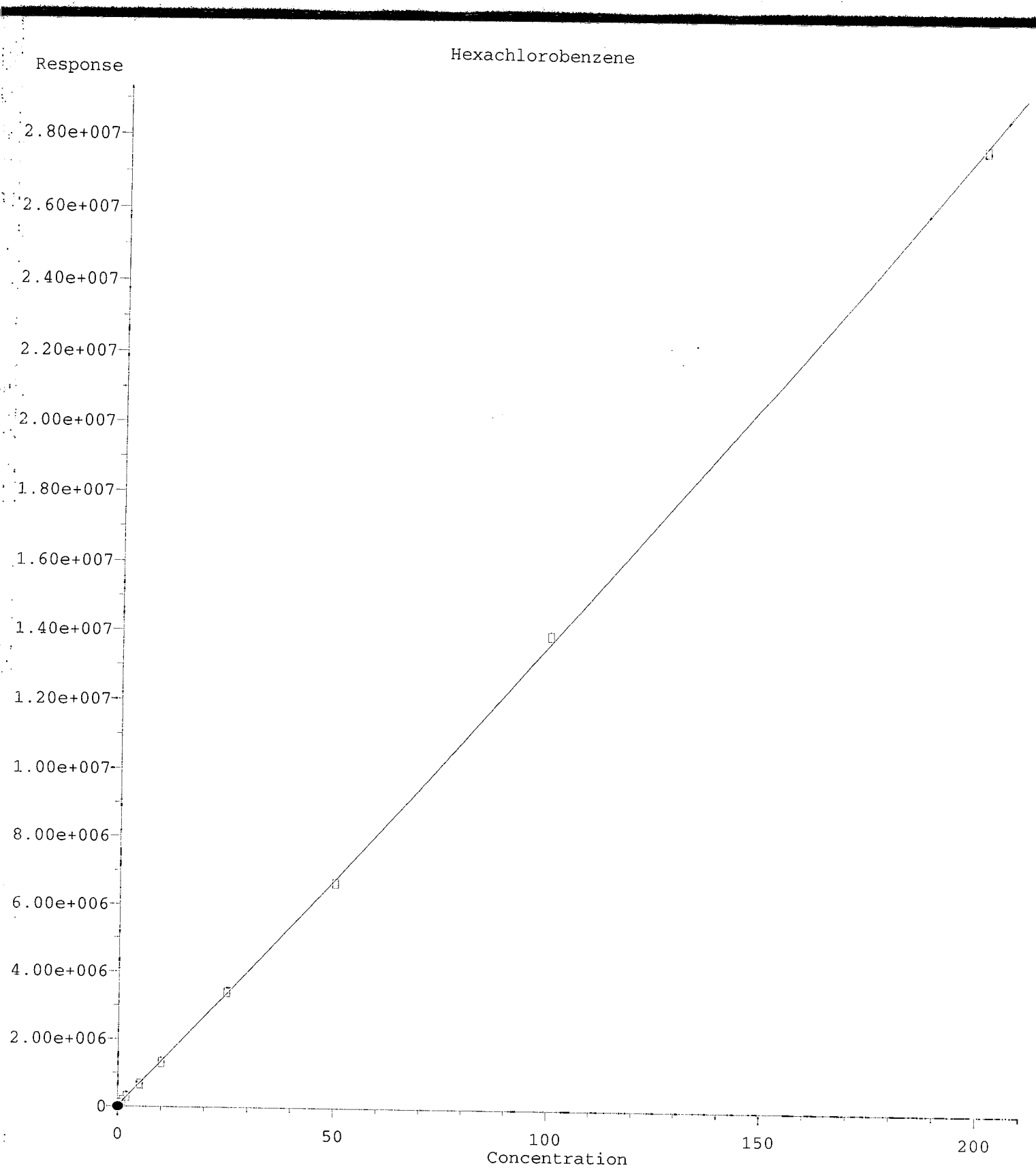
(23) Hexachlorobutadiene #2

3.715min 838.069 ng/mL (m) 6x

response 1371

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:20:52 2020

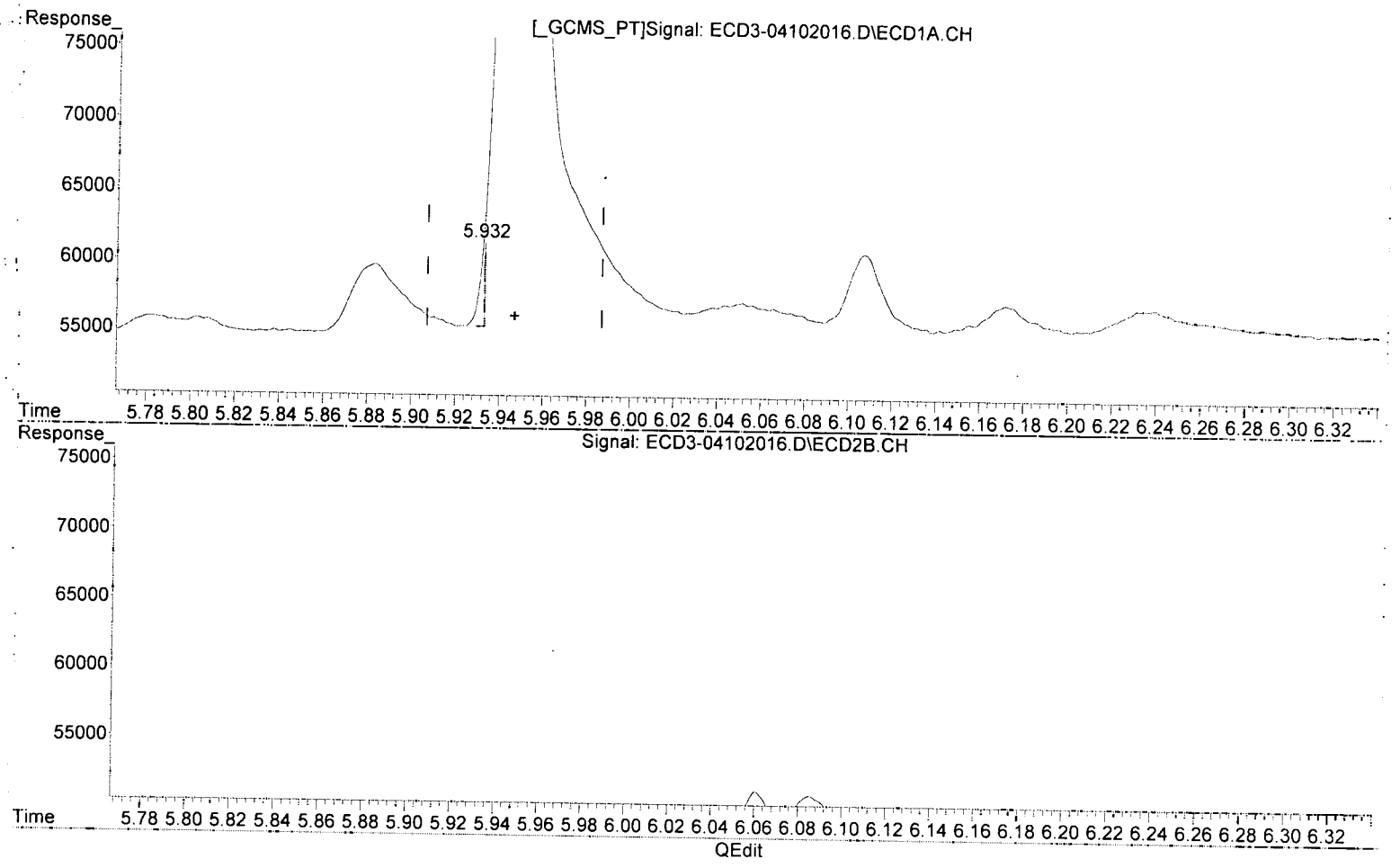


R = 3.47e+001 A*A + 1.33e+005 A + 2.70e+004
Coef of Det (r^2) = 0.9988
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated:

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(24) Hexachlorobenzene

5.932min -0.158 ng/mL (m)

response 6011

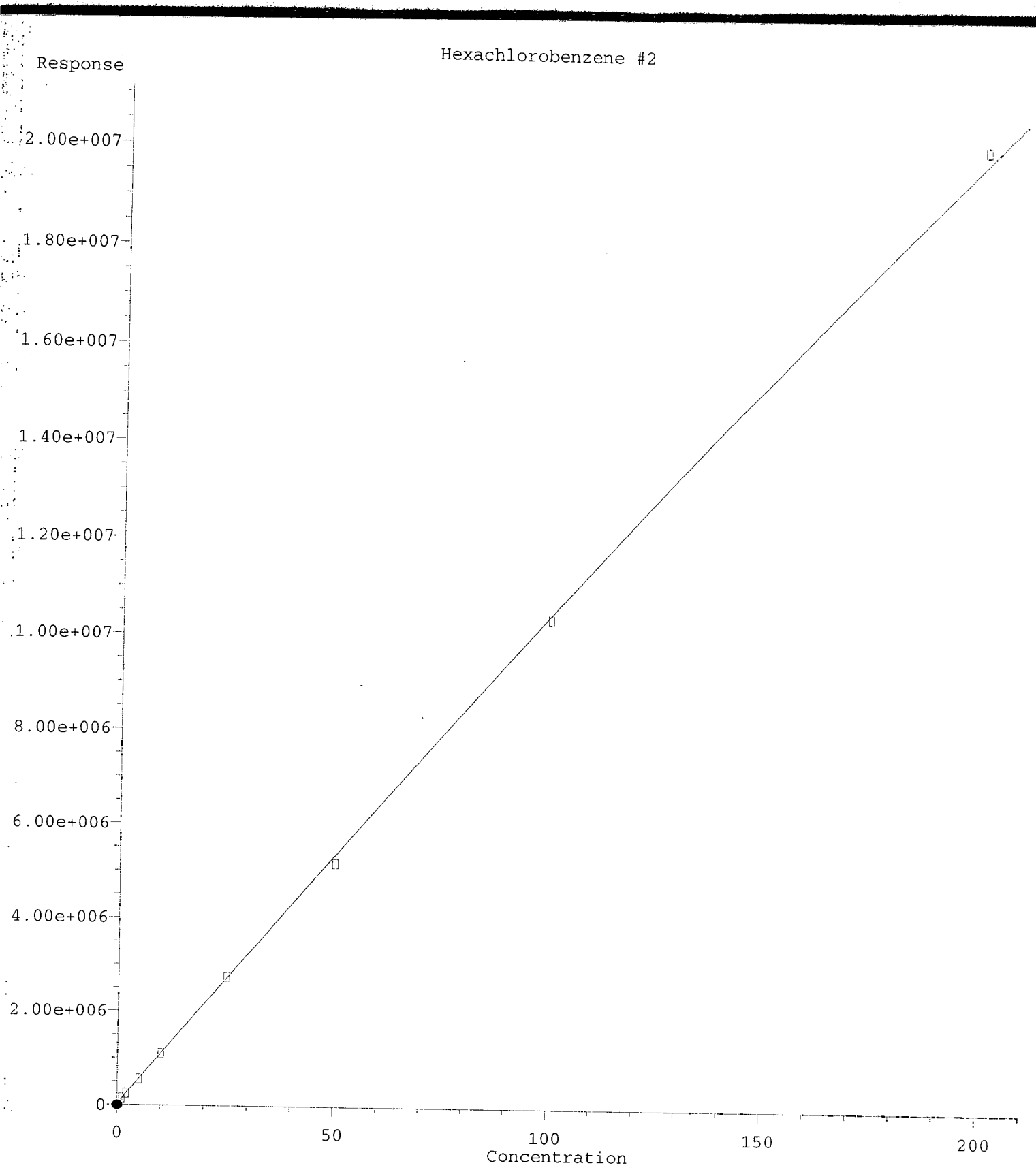
MJB 4/13/20

(24) Hexachlorobenzene #2

6.532min 0.478 ng/mL

response 78616

(+) = Expected Retention Time

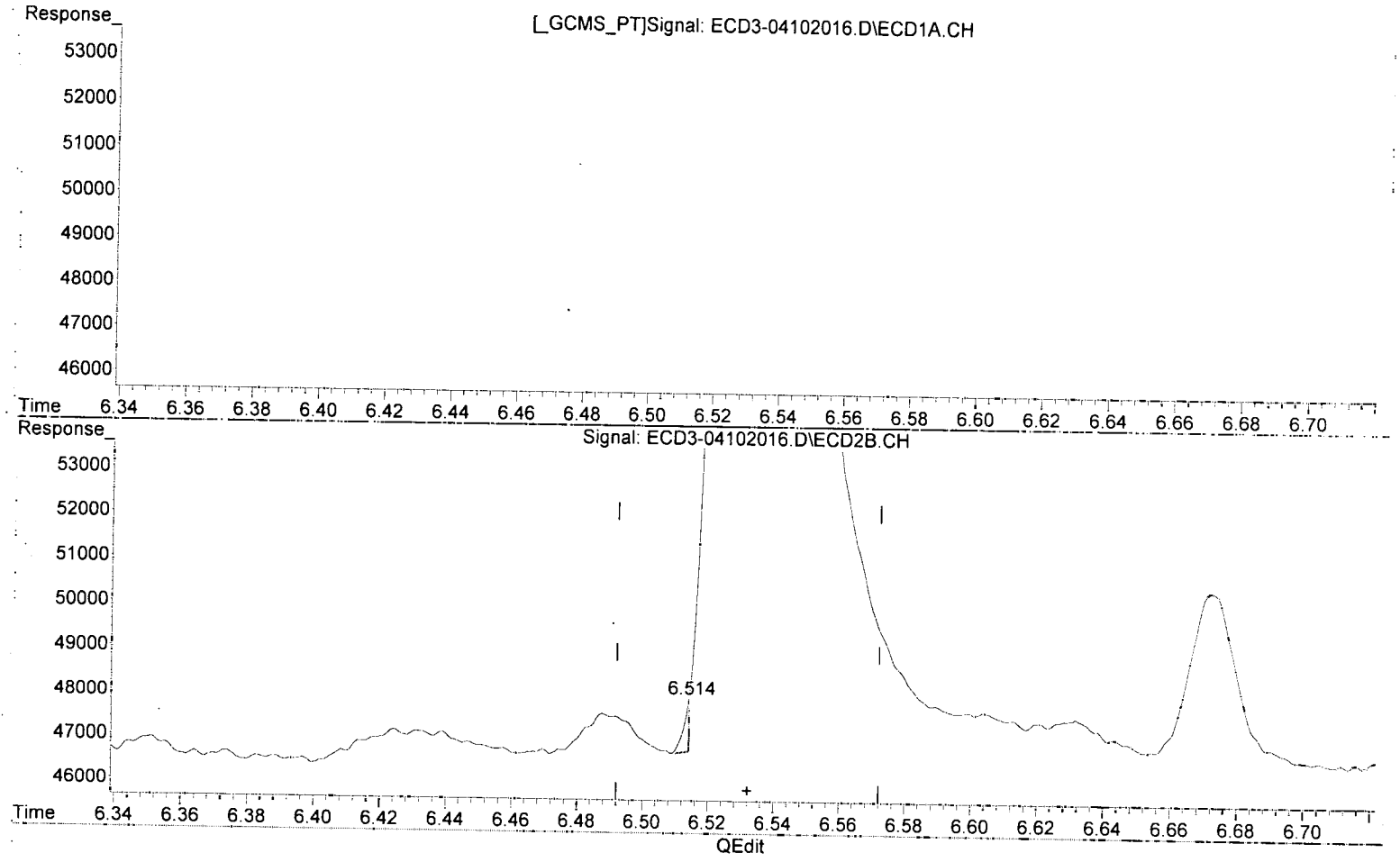


R = -4.96e+001 A*A + 1.09e+005 A + 2.66e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quad, PreRD, DG 2019 (4a2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 10:24:25 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(24) Hexachlorobenzene

5.932min -0.158 ng/mL m

response 6011

MJB 4/13/20

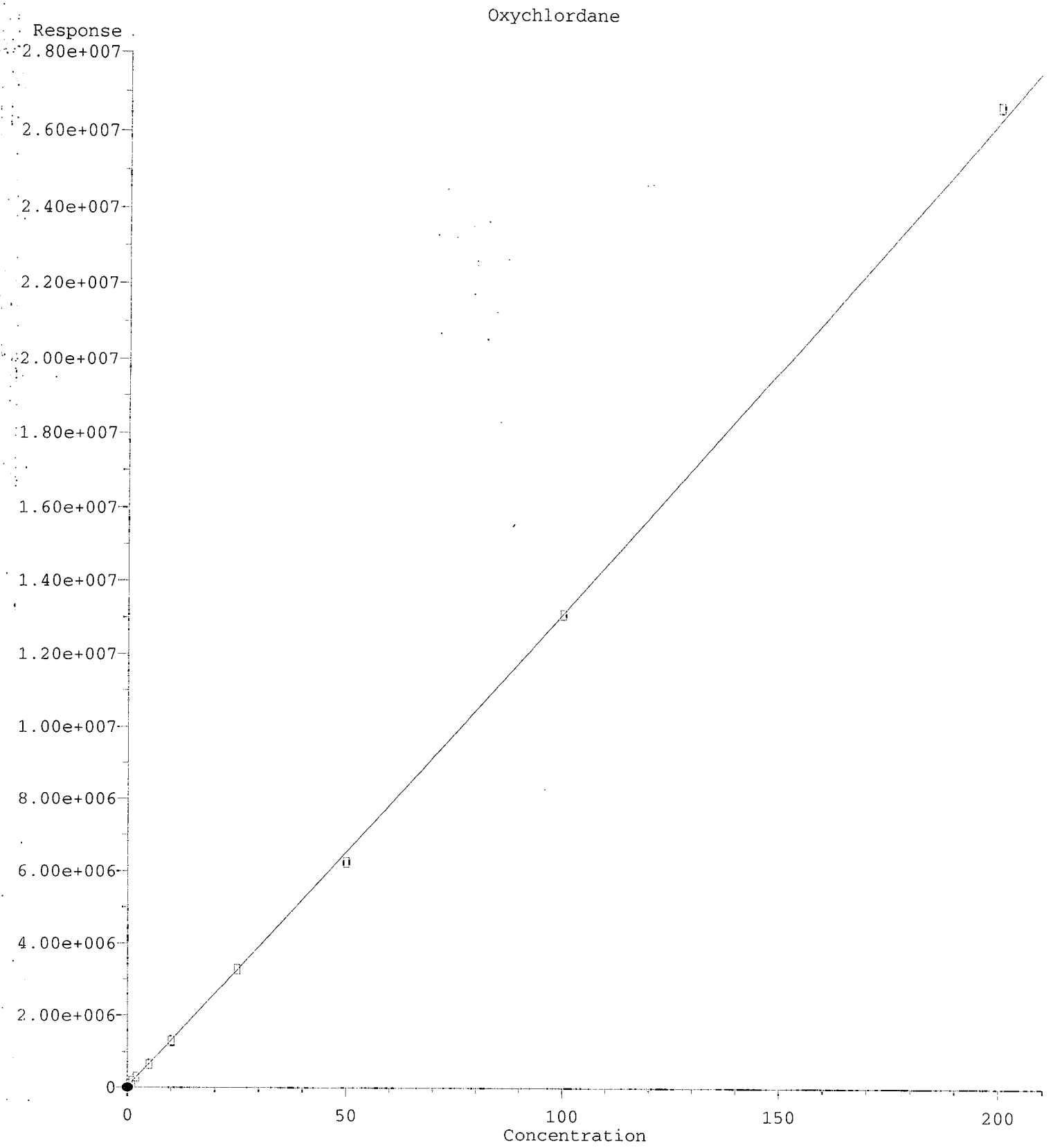
(24) Hexachlorobenzene #2

6.514min 2197.618 ng/mL m

response 1179

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:21:15 2020

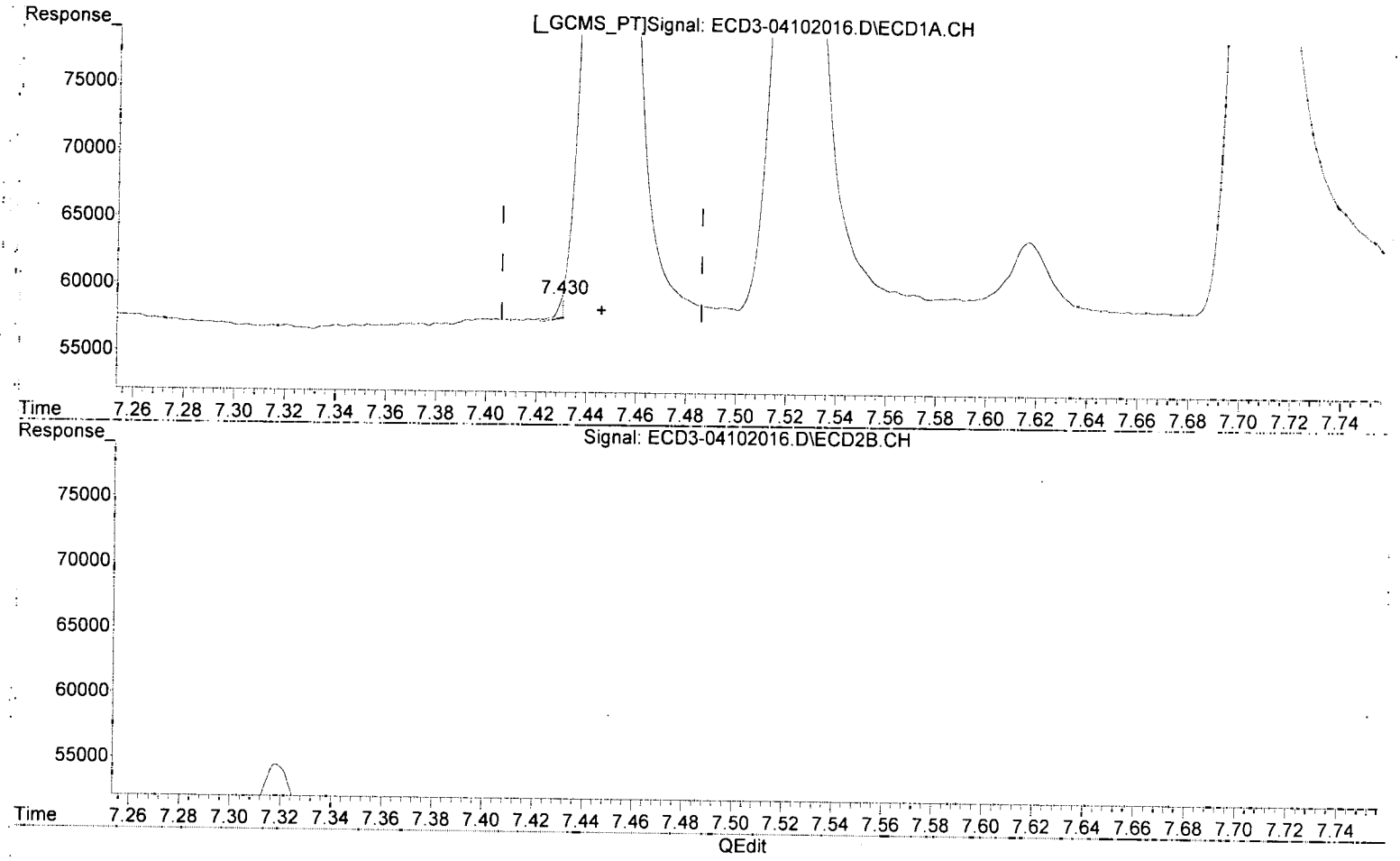


R = 1.19e+001 A*A + 1.29e+005 A + 2.59e+004
Coef of Det (r^2) = 0.9920 Curve Fit: Quadratic W(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(25) Oxychlordane

7.430min -0.188 ng/mL (m)

response 1485

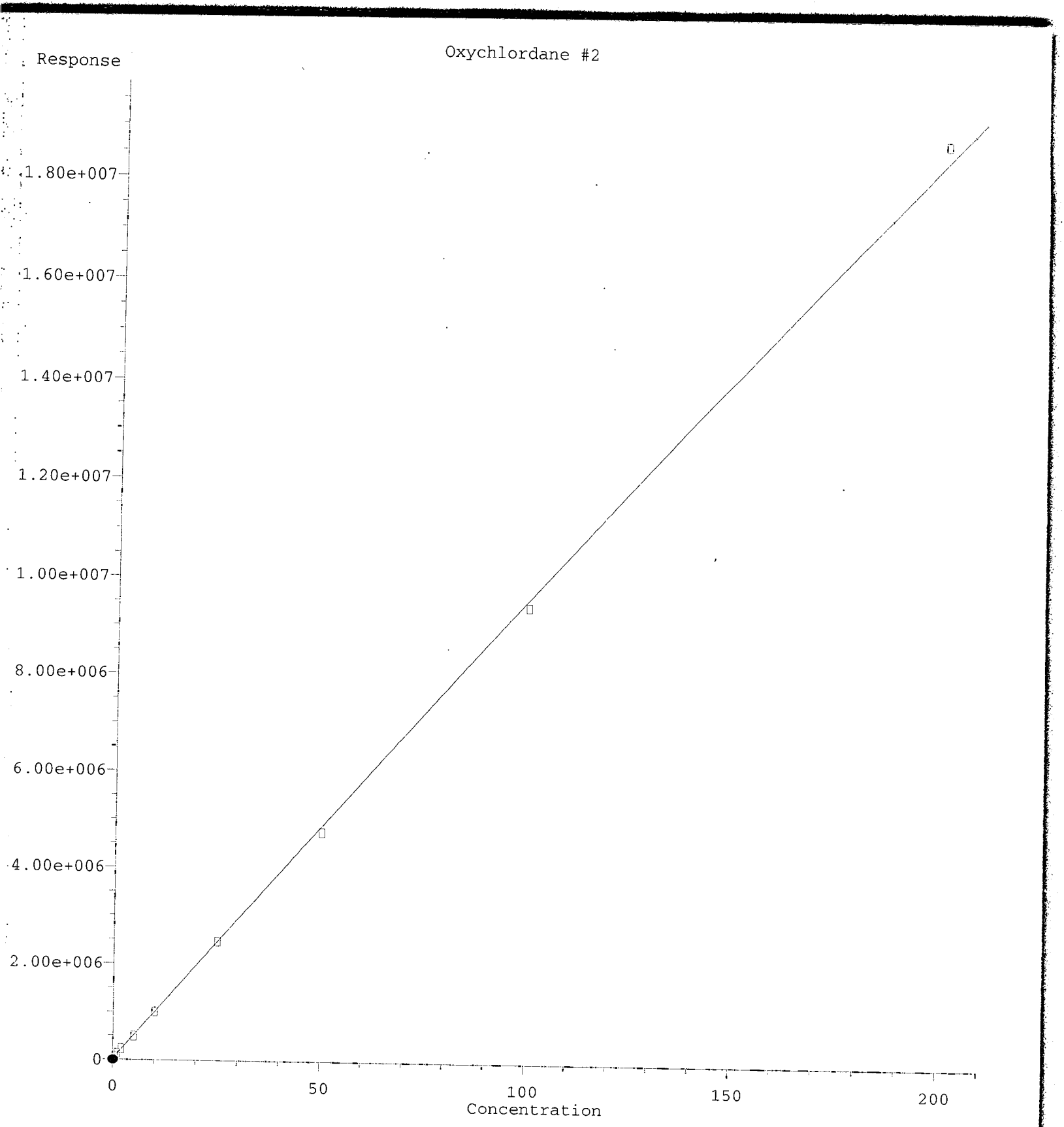
MJB 4/13/20

(25) Oxychlordane #2

8.010min 0.469 ng/mL

response 67961

(+) = Expected Retention Time

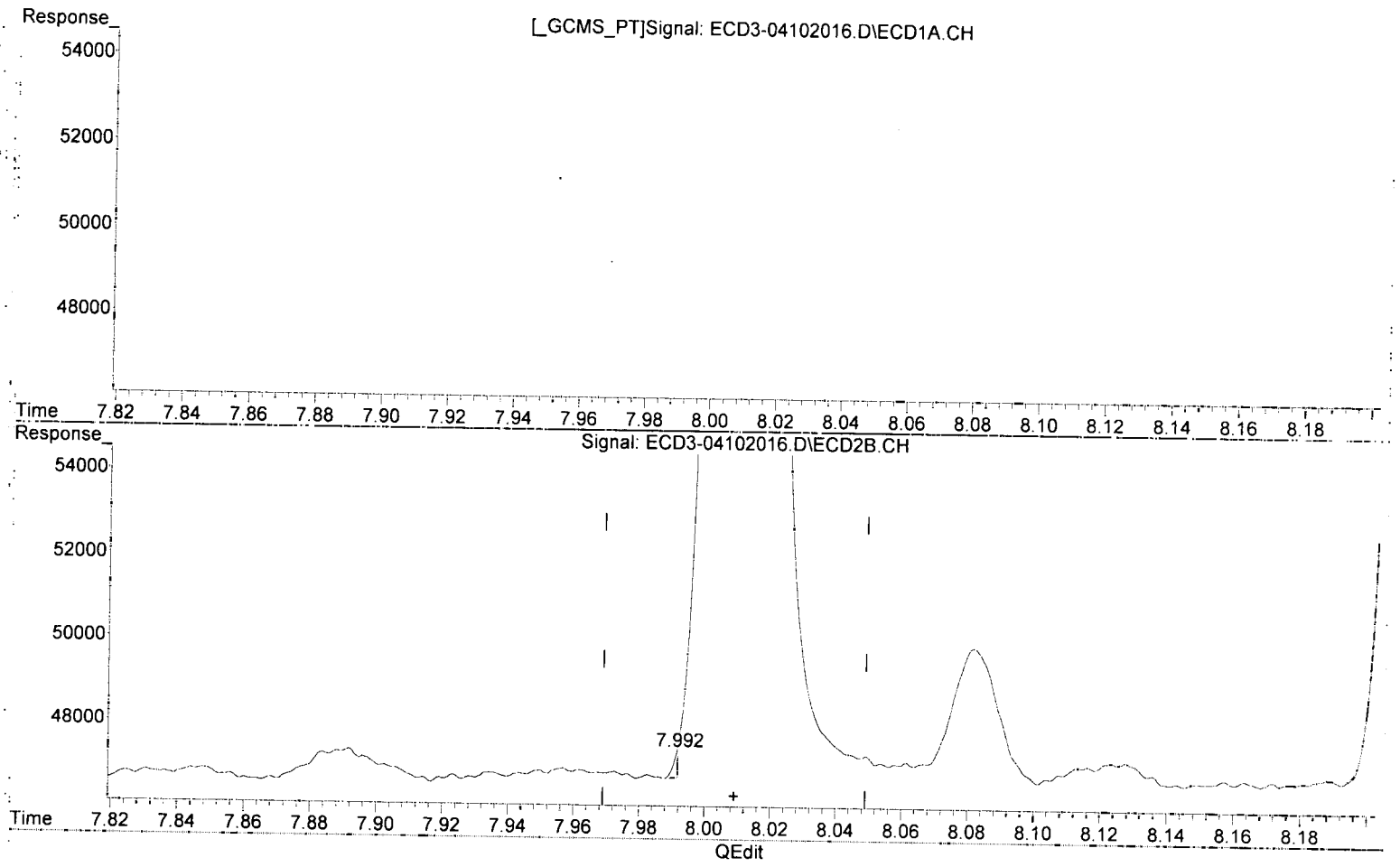


R = -3.01e+001 A*A + 9.87e+004 A + 2.17e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic, 1/x, origin ignored
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 10:04:25 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(25) Oxychlordane

7.430min -0.188 ng/mL m

response 1485

WD 4/13/20

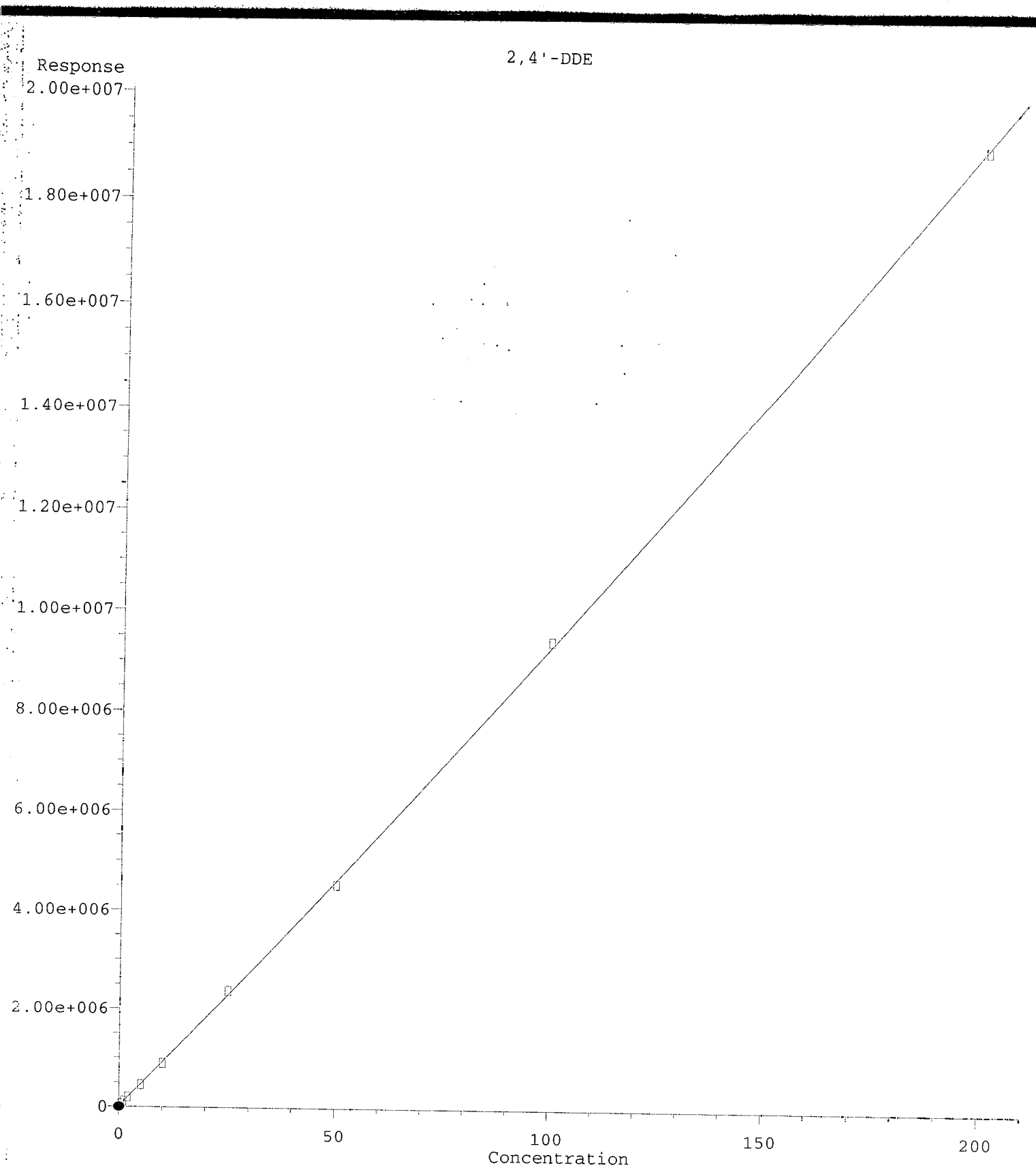
(25) Oxychlordane #2

7.992min 3277.731 ng/mL (m) 0.0e1

response 640

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:21:34 2020

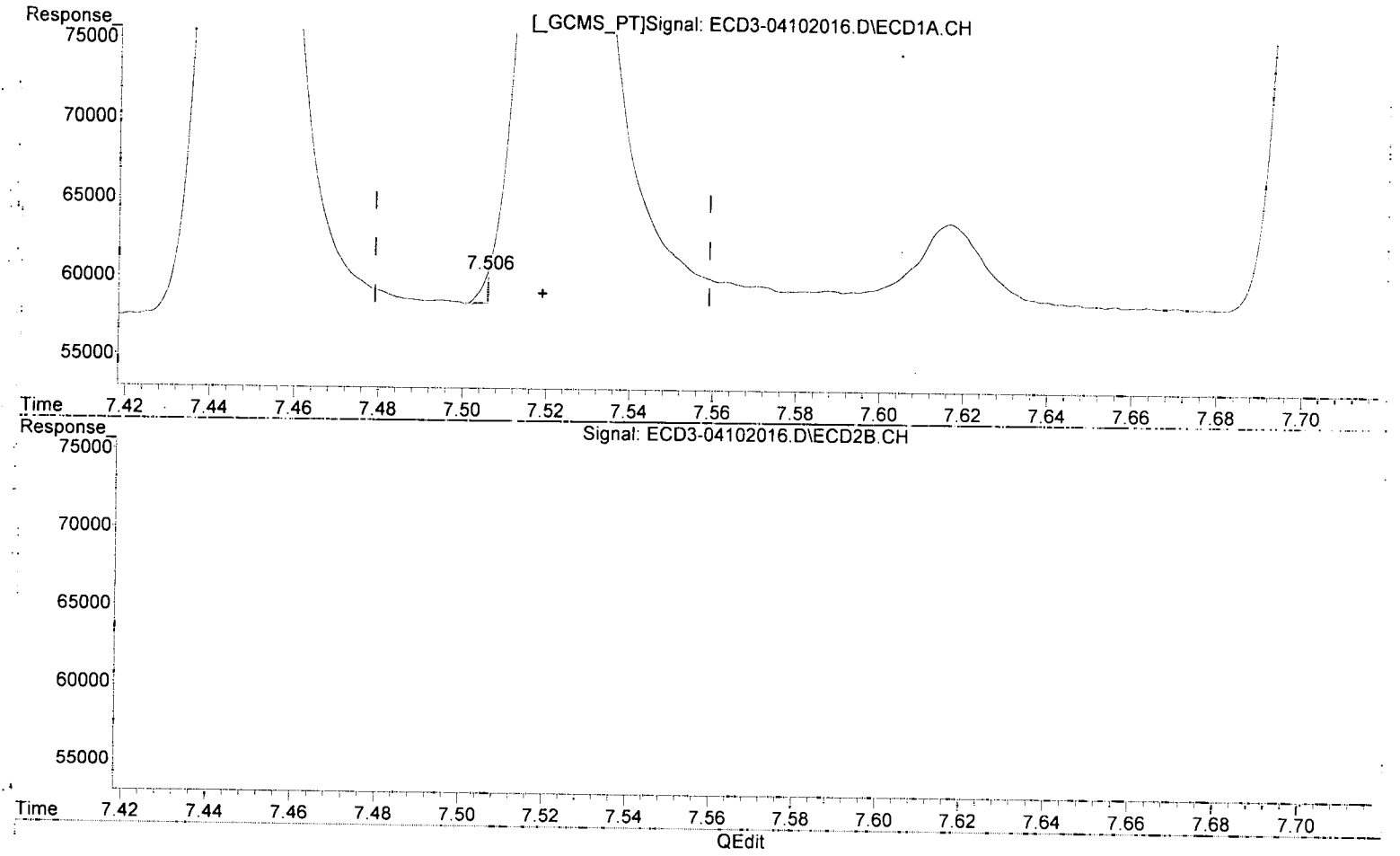


R = 2.80e+001 A*A + 9.02e+004 A + 1.65e+004
Coef of Det (r^2) = 0.998 Curve Fit : Quadratic_1/(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: 7/13/20 Anchor QEA, LLC : Cosco Pre RD DG 2019 4a.D) DOC-CAP Testing Cores Page 672 of 1443

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.506min -0.162 ng/mL (m)

response 1866

MJB 4/13/20

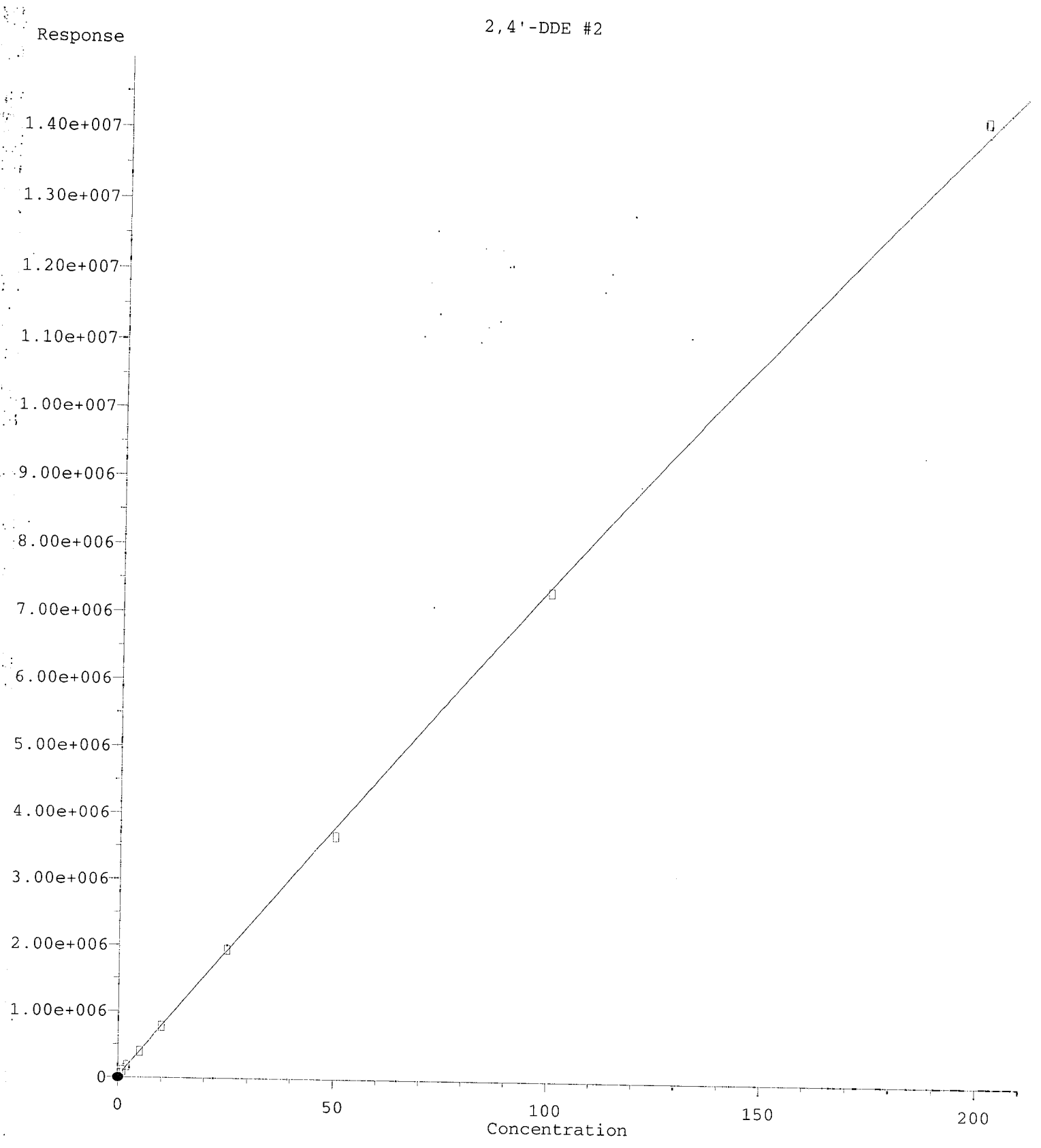
(26) 2,4'-DDE #2

8.216min 0.477 ng/mL

response 54754

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:21:49 2020

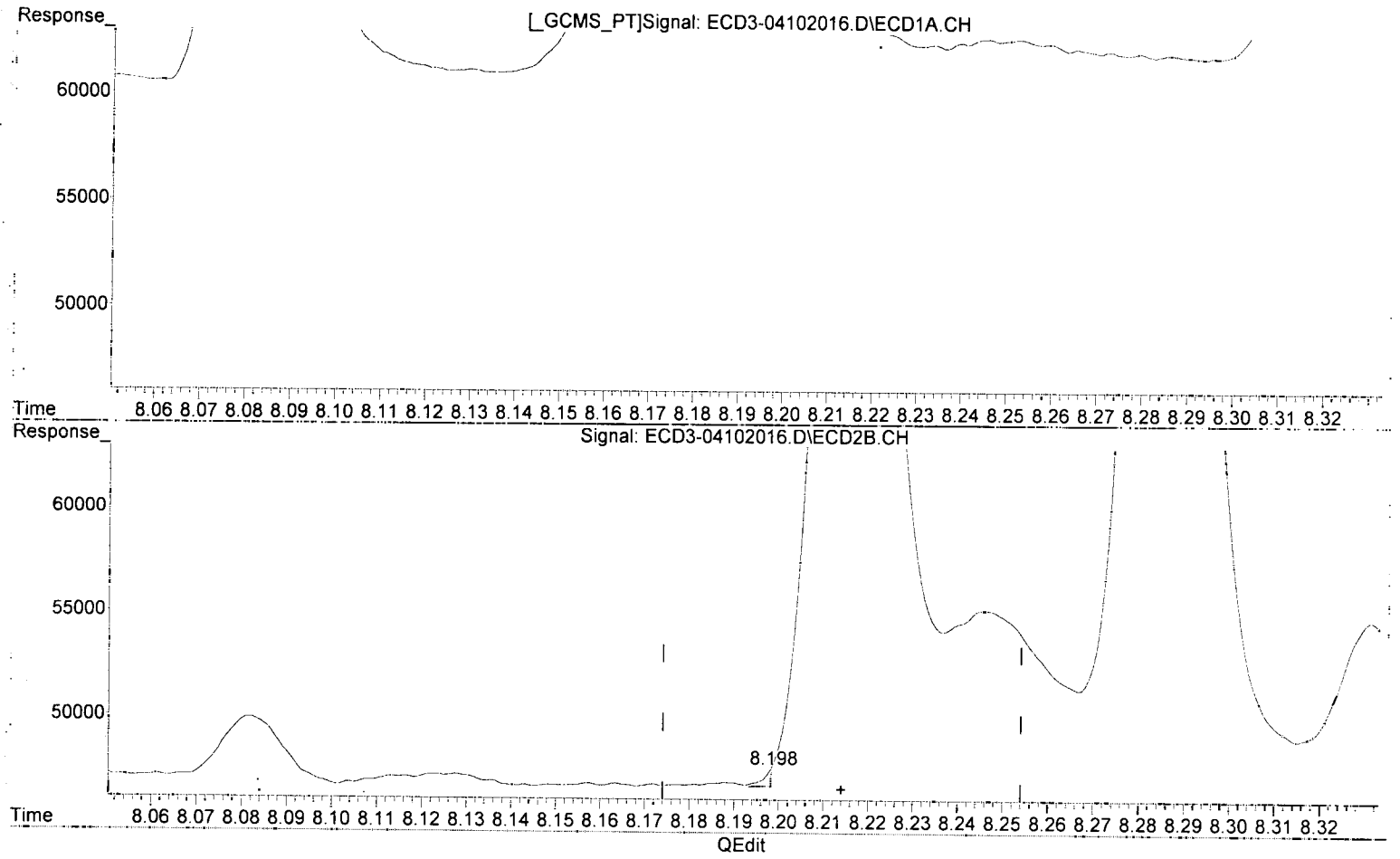


R = -3.61e+001 A*A + 7.74e+004 A + 1.79e+004
Coef of Det (r^2) = 0.9958 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.506min -0.162 ng/mL m

response 1866

MJB 4/14/20

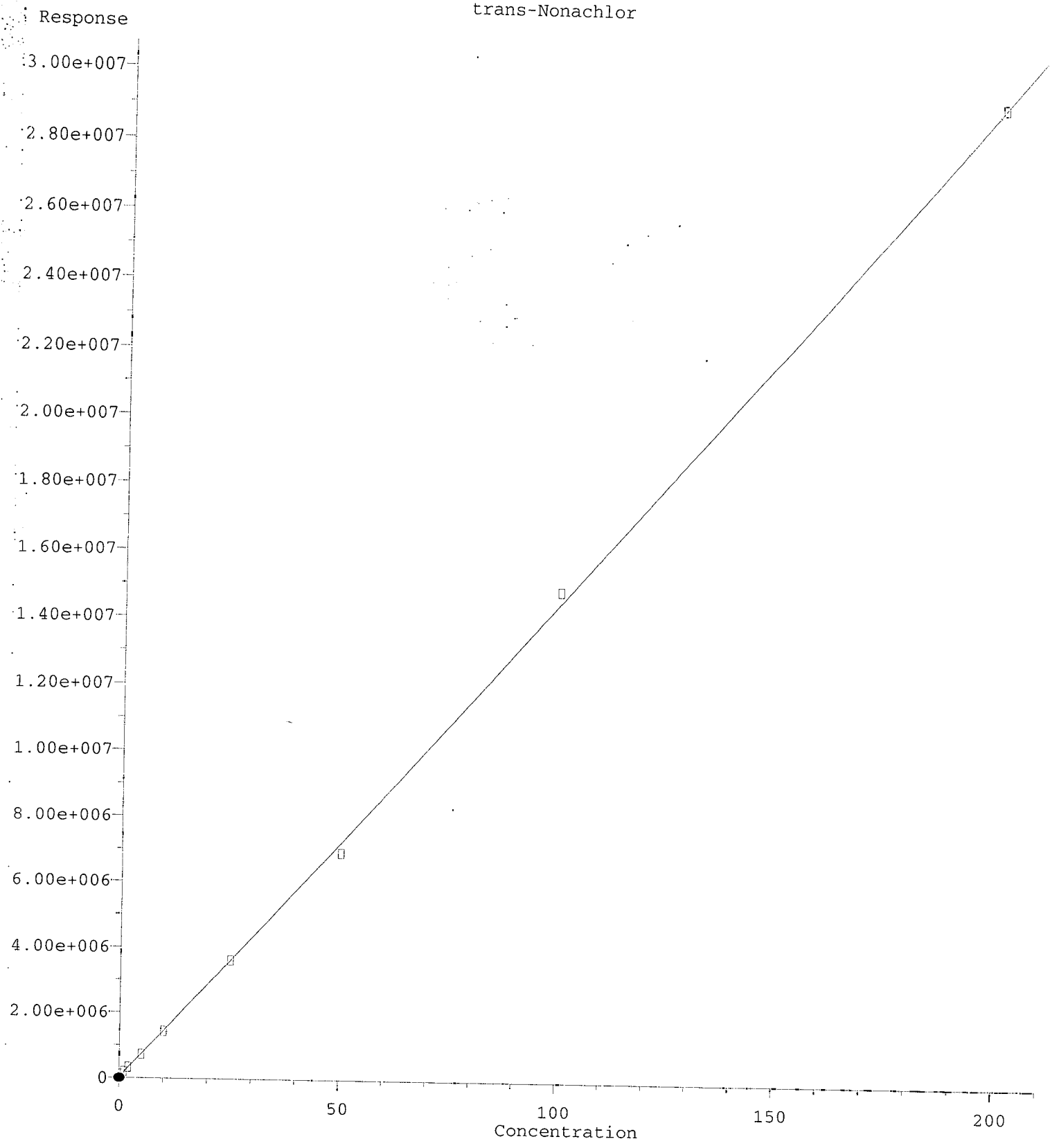
(26) 2,4'-DDE #2

8.198min 2144.972 ng/mL m QPC

response 858

(+) = Expected Retention Time

Archive in EA, LLC - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 675 of 1443

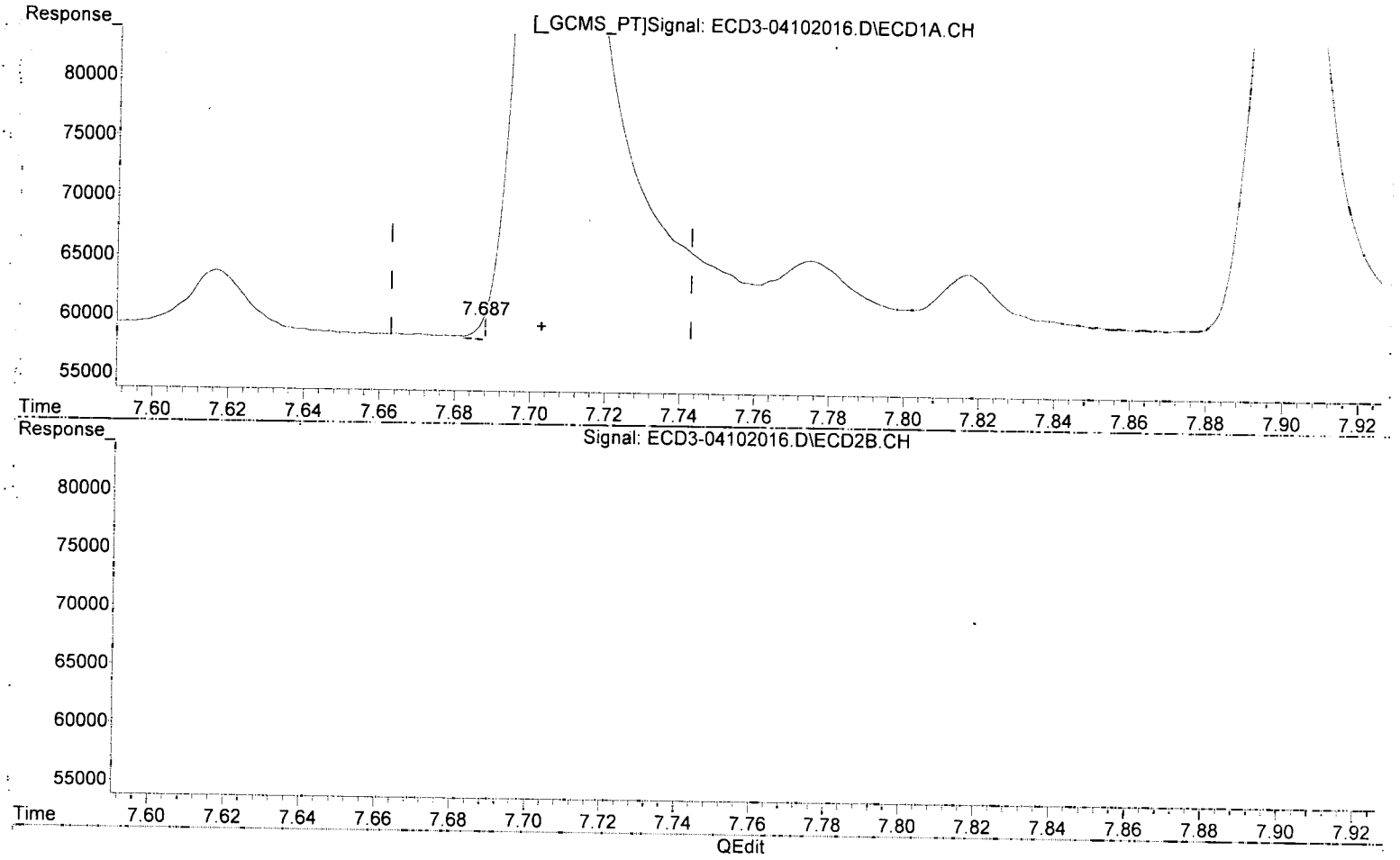


R = 1.52e+001 A*A + 1.43e+005 A + 2.99e+004
Coef of Det (r^2) = 0.997 Quadratic, w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: 07/15/20 Anchor QEA, LLC: Cascade PreRD DG 2019 - 4a.b. DOC-CAP Testing Cores Page 676 of 1443

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.687min -0.197 ng/mL (m)

response 1724

MJB 4/13/20

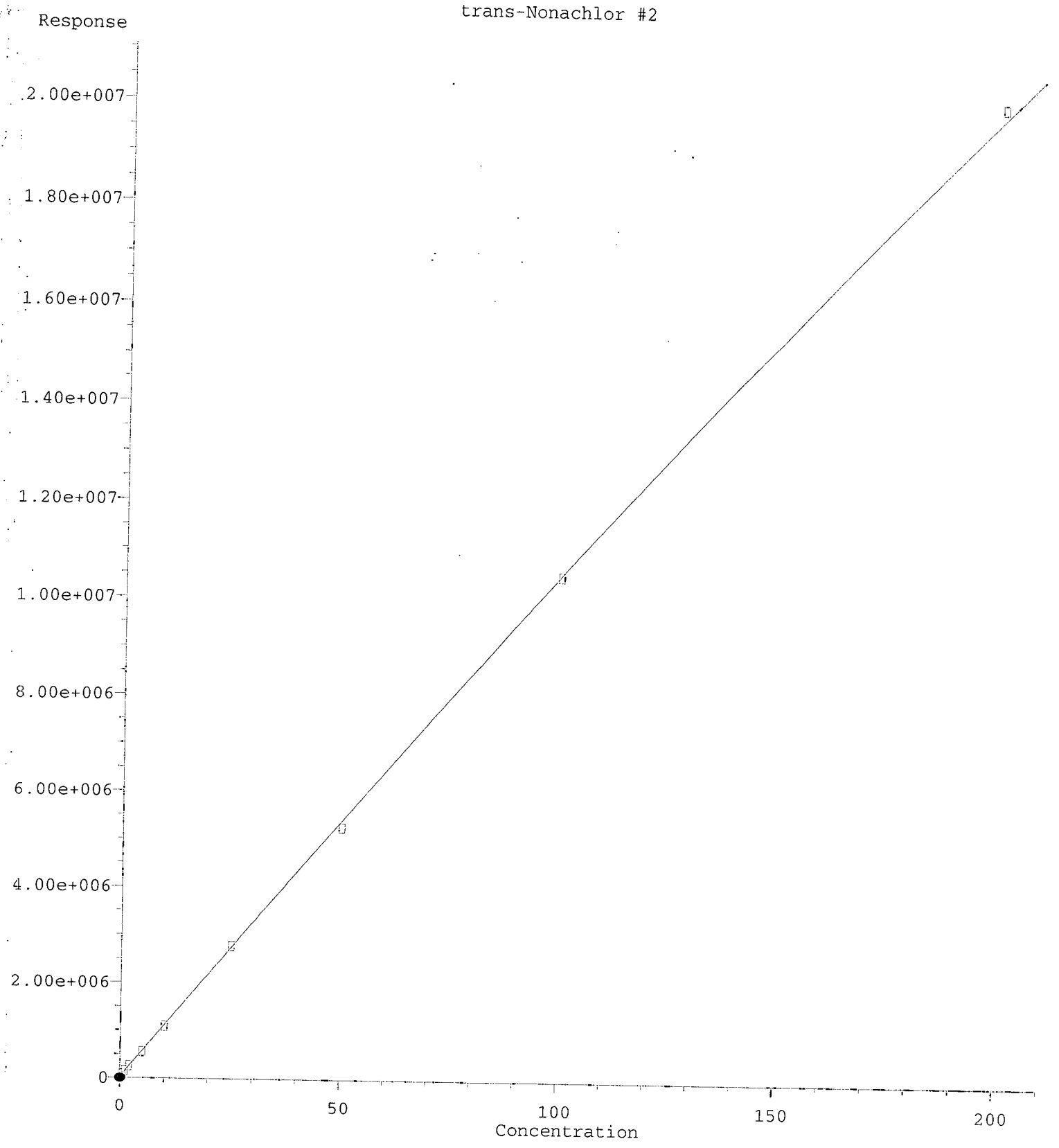
(27) trans-Nonachlor #2

8.287min 0.474 ng/mL

response 76561

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:22:08 2020

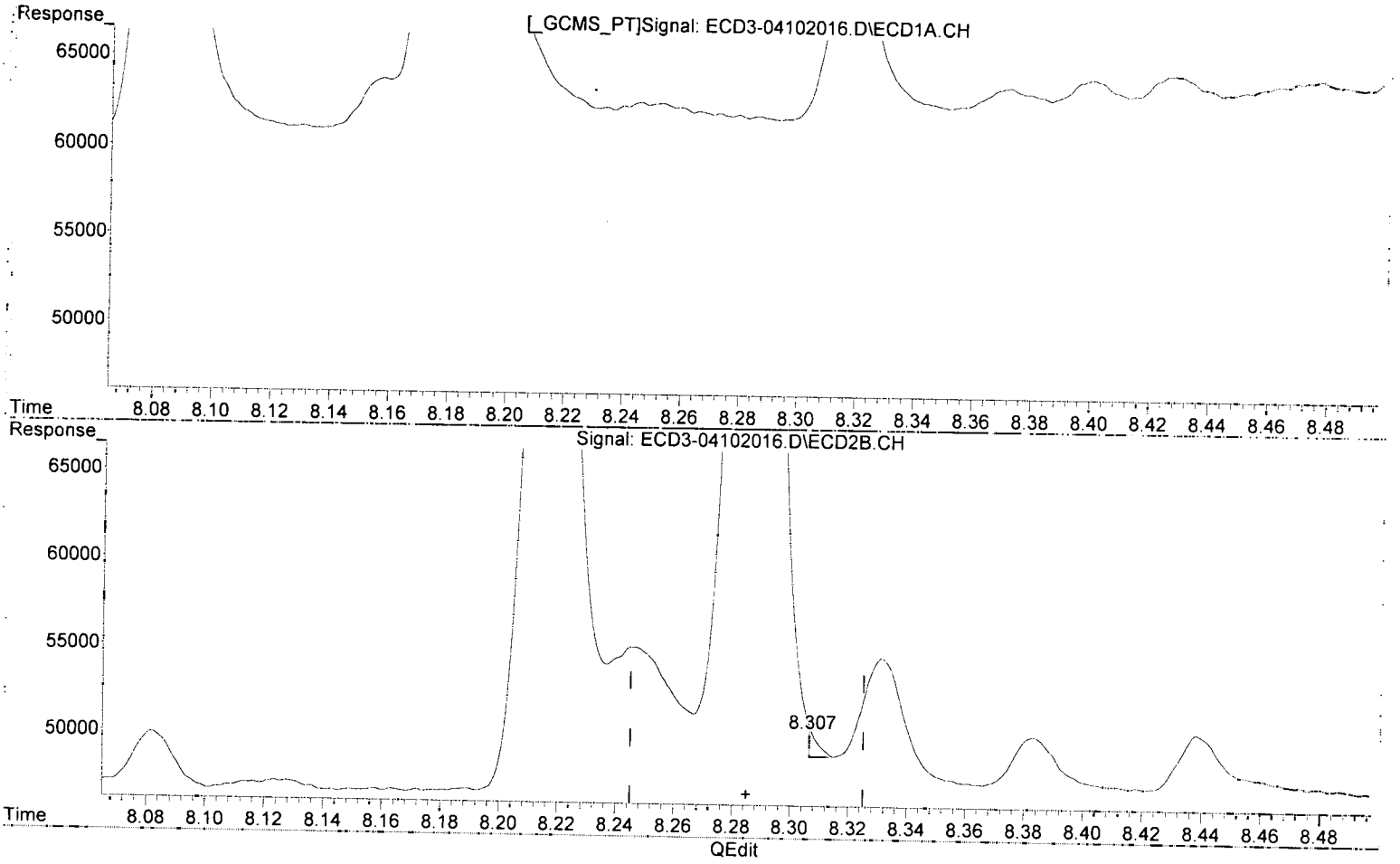


R = -5.65e+001 A*A + 1.10e+005 A + 2.43e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w/ 1/a^2
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: 07/15/20 Anchor QEA, LLC: Gasco PreRD DG 2019_4a.b, DOC-CAP Testing Cores Page 678 of 1443

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.687min -0.197 ng/mL m

response 1724

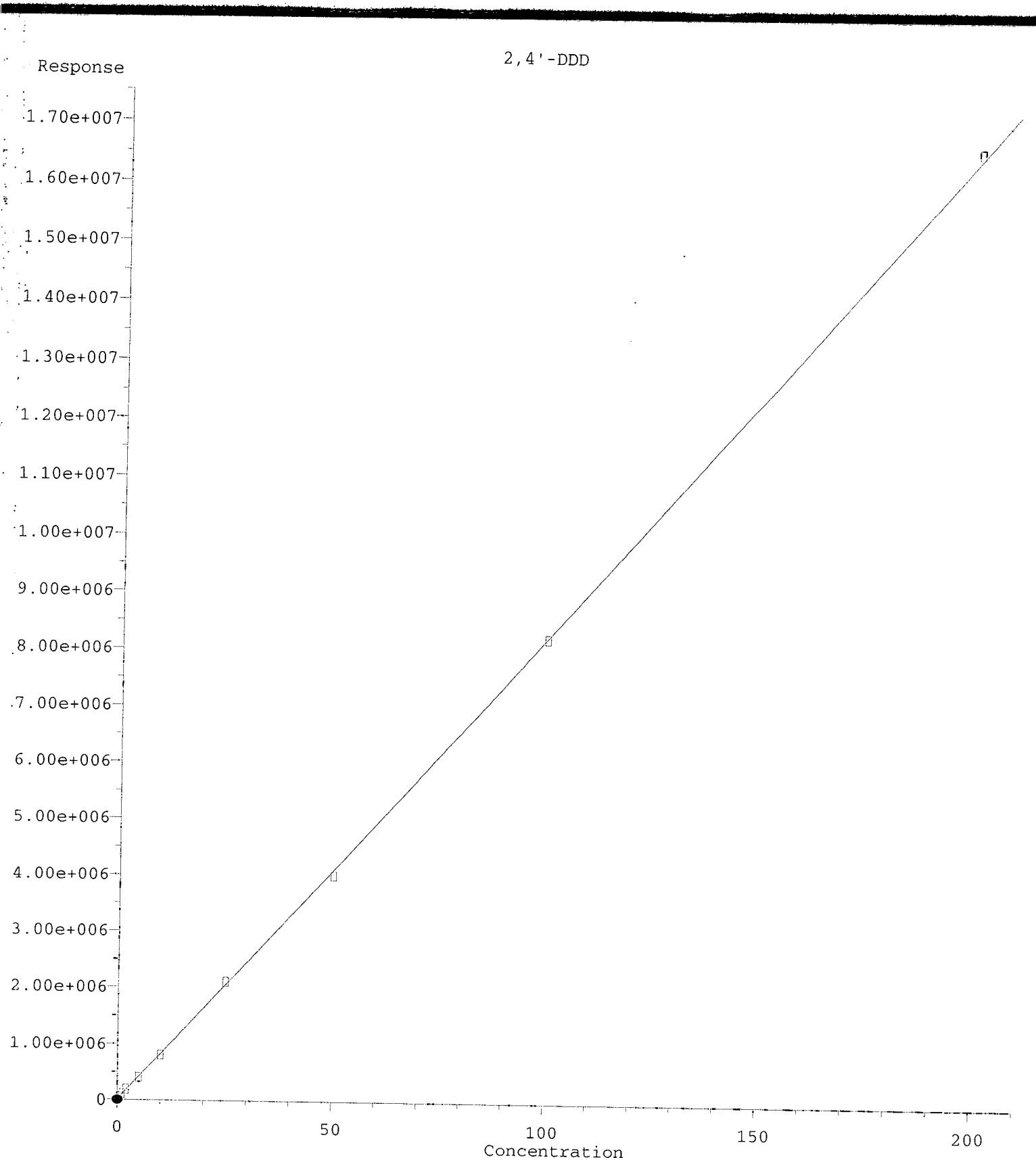
MJB 4/13/20

(27) trans-Nonachlor #2

8.307min 1953.548 ng/mL m QDel

response 1736

(+) = Expected Retention Time

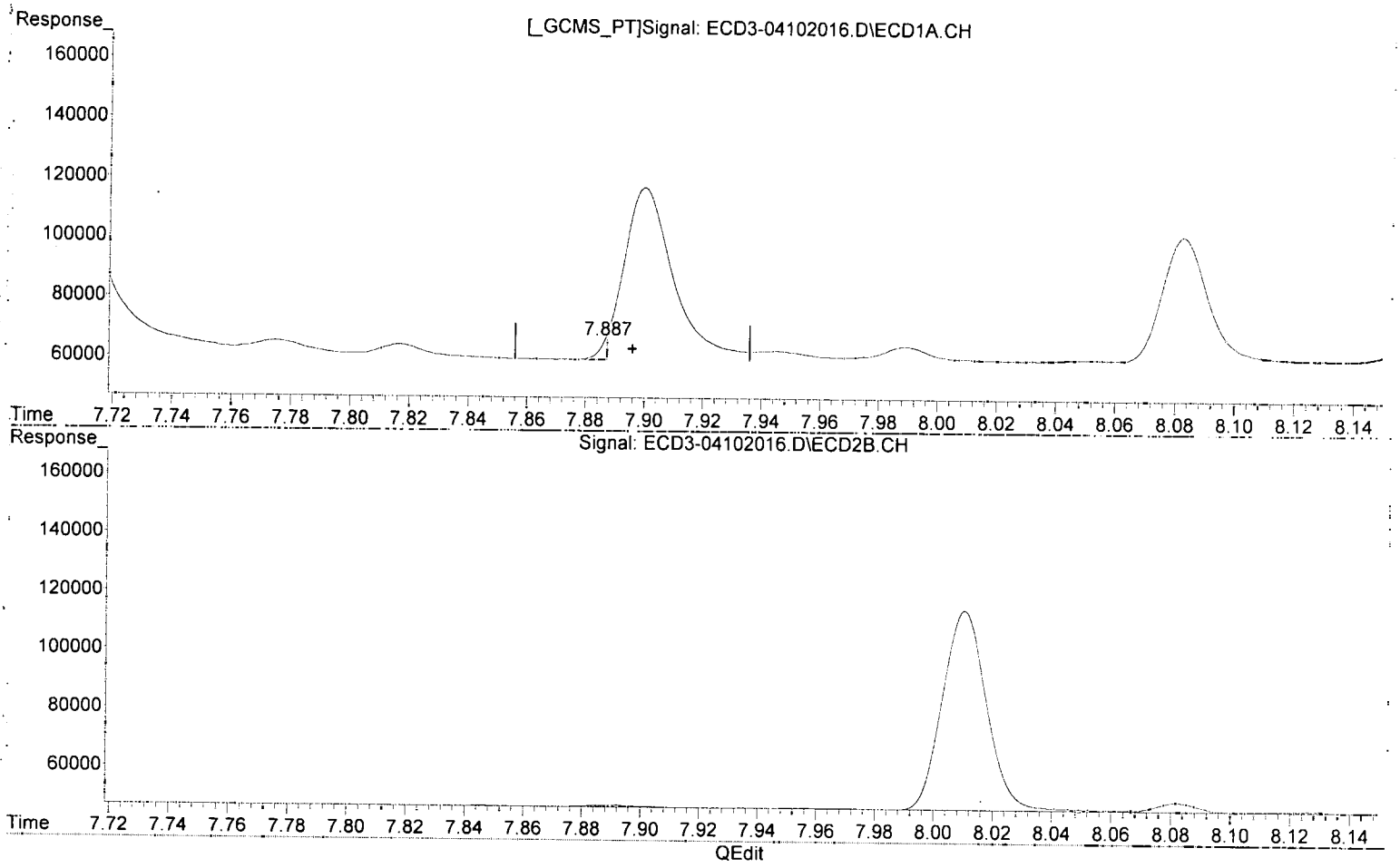


R = 7.03e+000 A*A + 8.14e+004 A + 1.78e+004
Coef of Det (r^2) = 0.9987 Quadratic, w/(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: 07/15/20 Anchor QEA, LLC : Cosco PreRD DG 2019_4eb, DOC-CAP Testing Cores Page 680 of 1443

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.887min -0.136 ng/mL (m)

response 6674

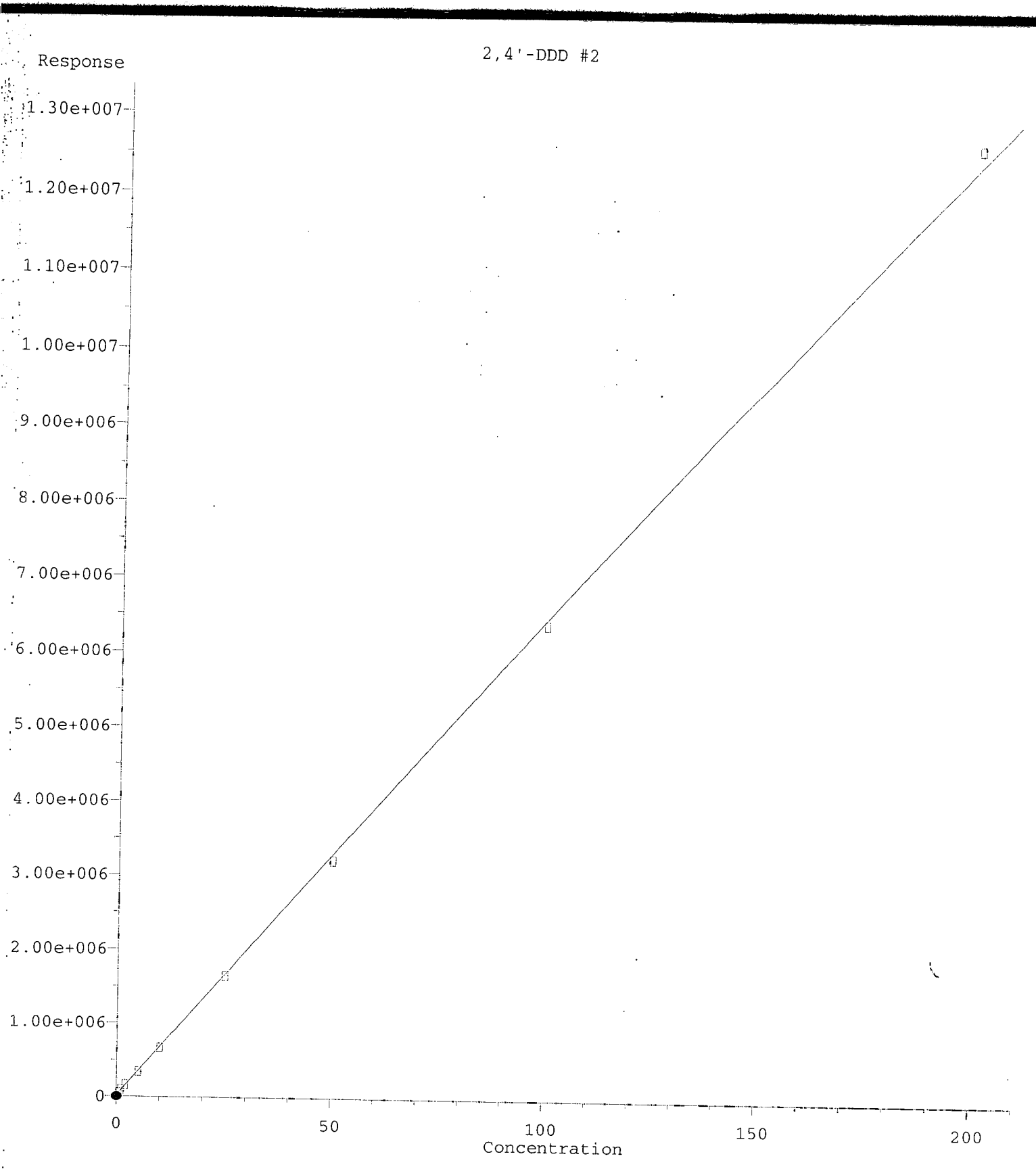
MJB 4/13/20

(28) 2,4'-DDD #2

8.592min 0.469 ng/mL

response 50583

(+) = Expected Retention Time

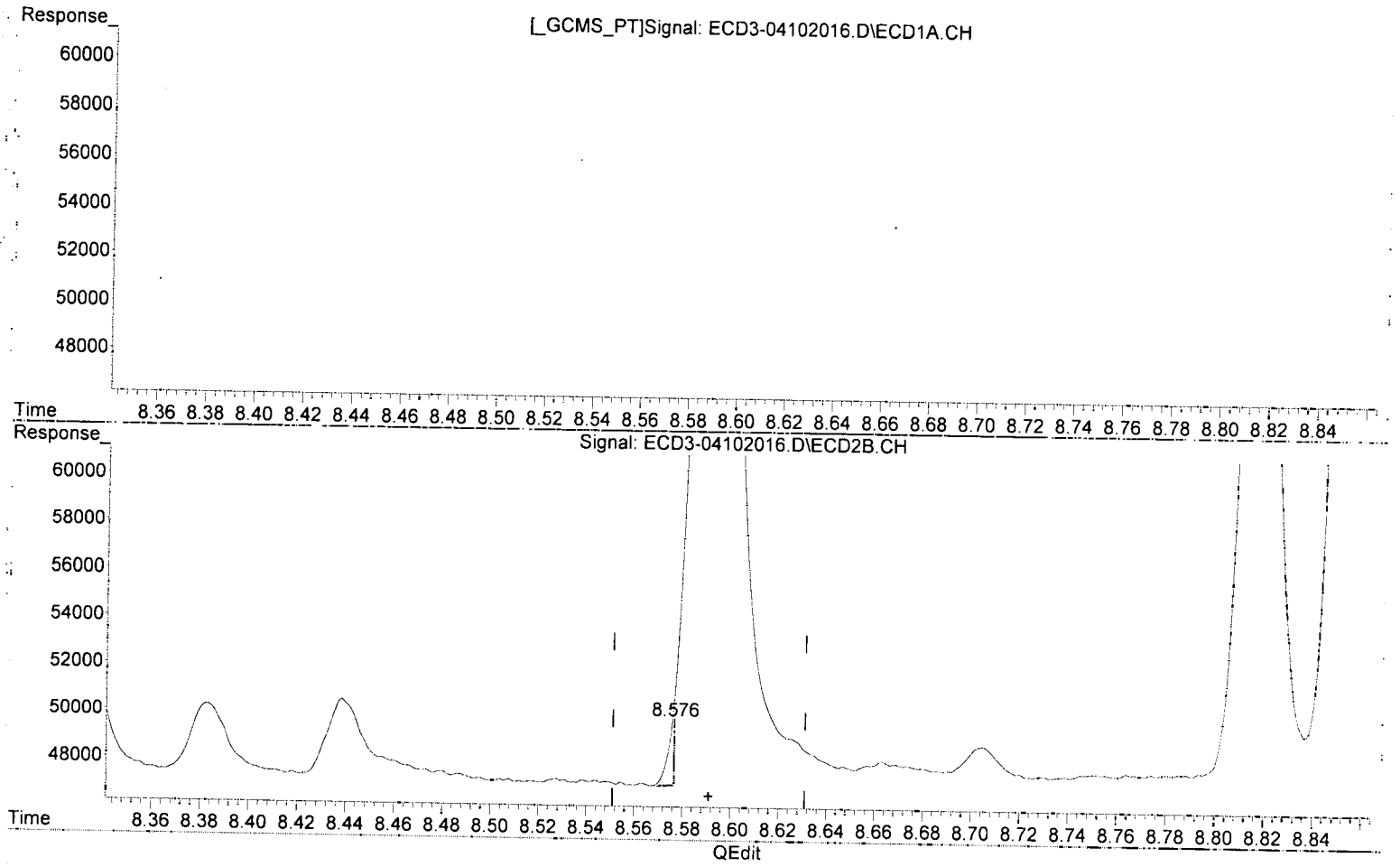


R = -2.10e+001 A*A + 6.66e+004 A + 1.93e+004
Coef of Det (r^2) = 0.996 Curve Fit: QuadraticOrigin_Ave
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 12:04:05 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.887min -0.136 ng/mL m

response 6674

MJB 4/13/20

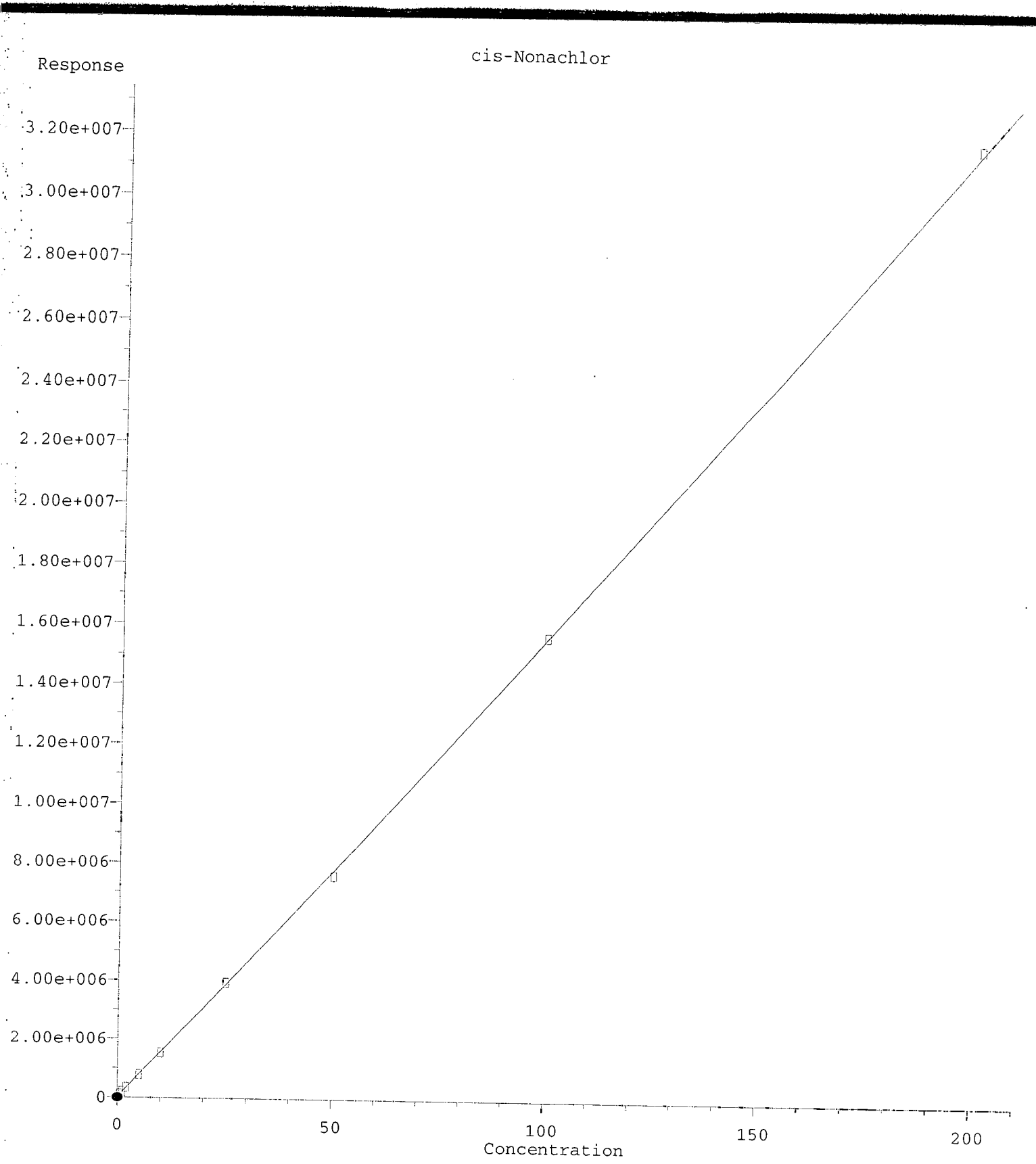
(28) 2,4'-DDD #2

8.576min 3167.846 ng/mL (m) Q21

response 2727

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:22:37 2020 Page: 1

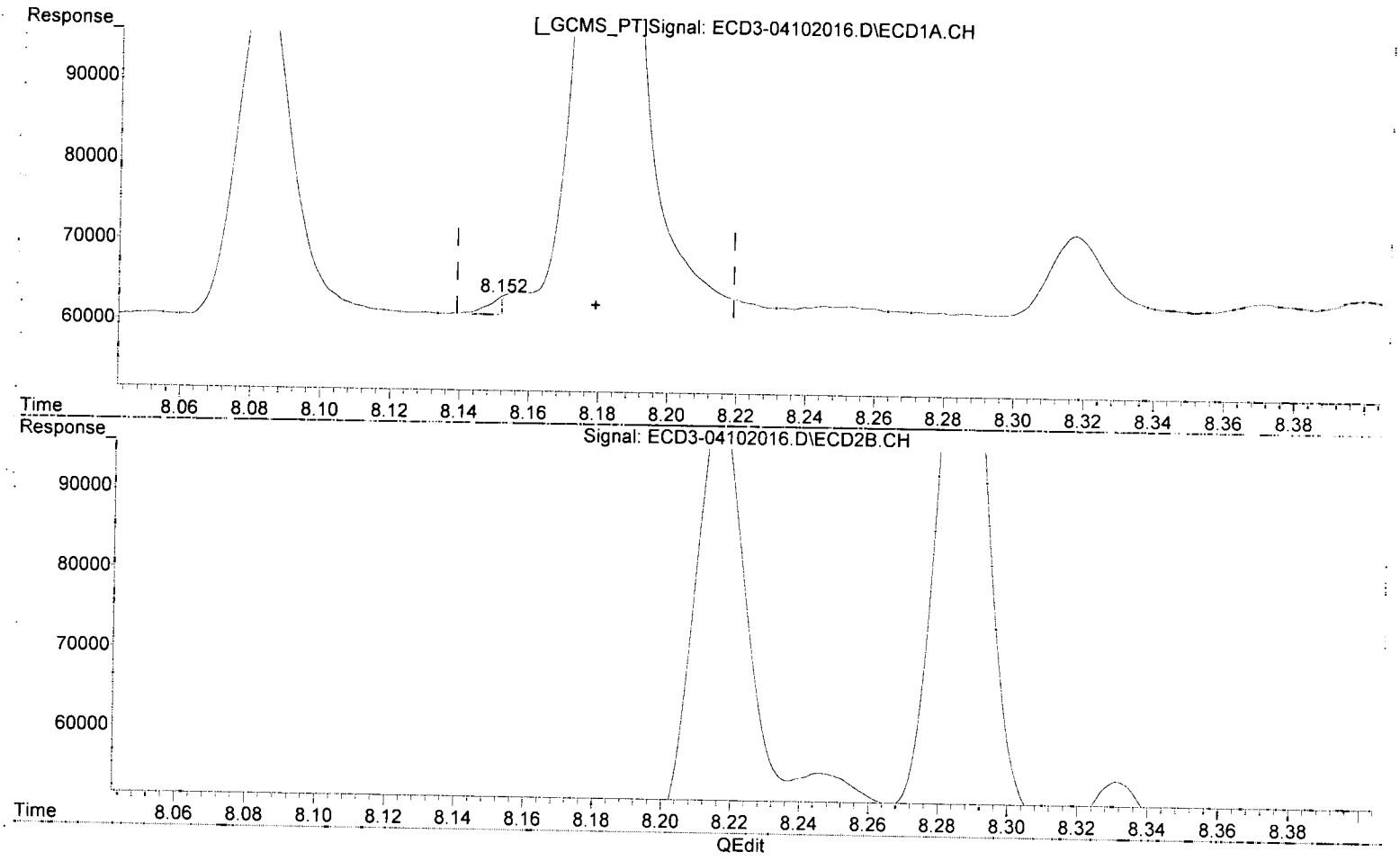


R = 2.59e+001 A*A + 1.53e+005 A + 3.24e+004
Coef of Det (r^2) = 0.998
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated:

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(30) cis-Nonachlor

8.152min -0.197 ng/mL (m)

response 2263

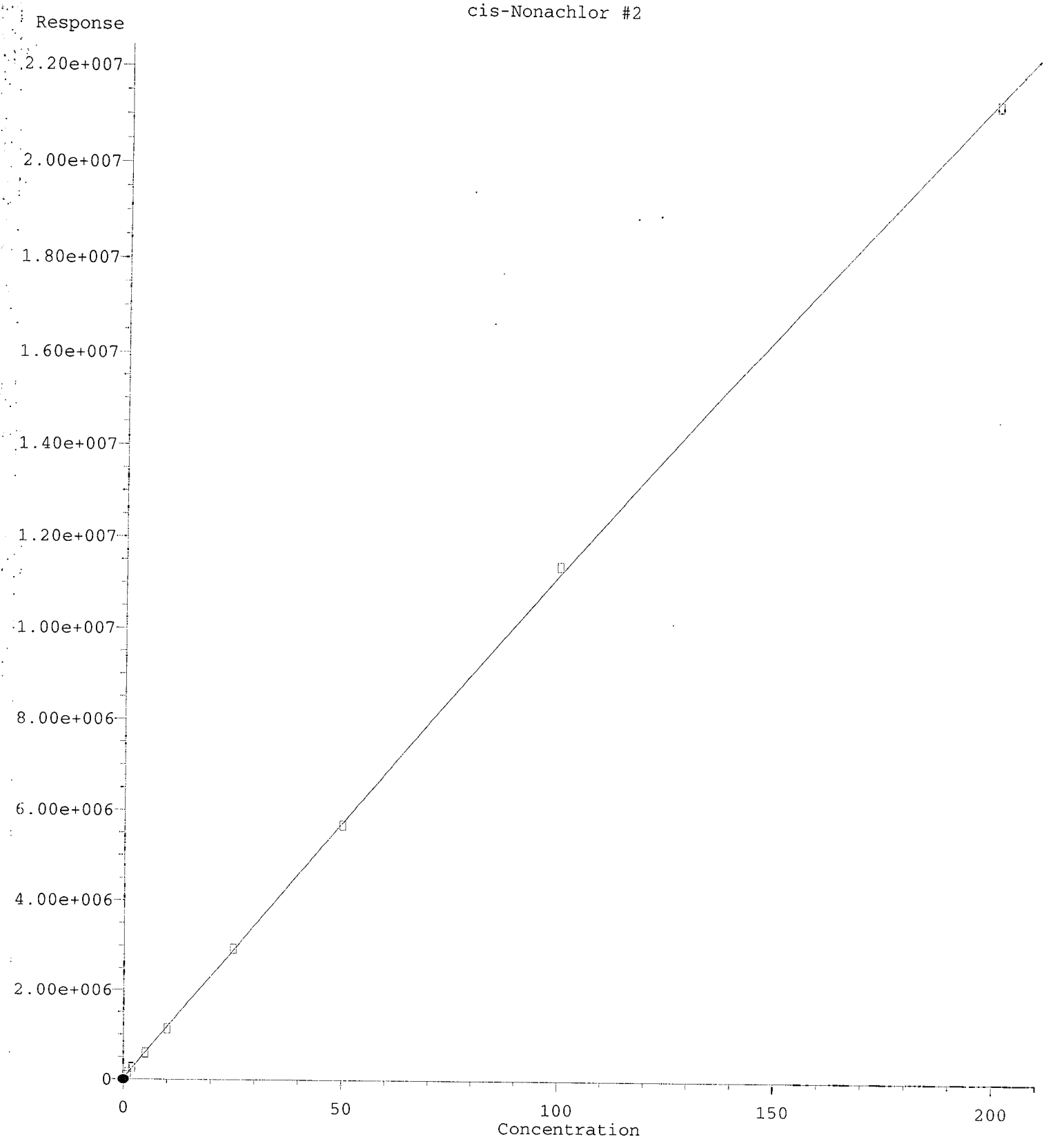
MJB 4/13/20

(30) cis-Nonachlor #2

8.857min 0.480 ng/mL

response 83146

(+) = Expected Retention Time

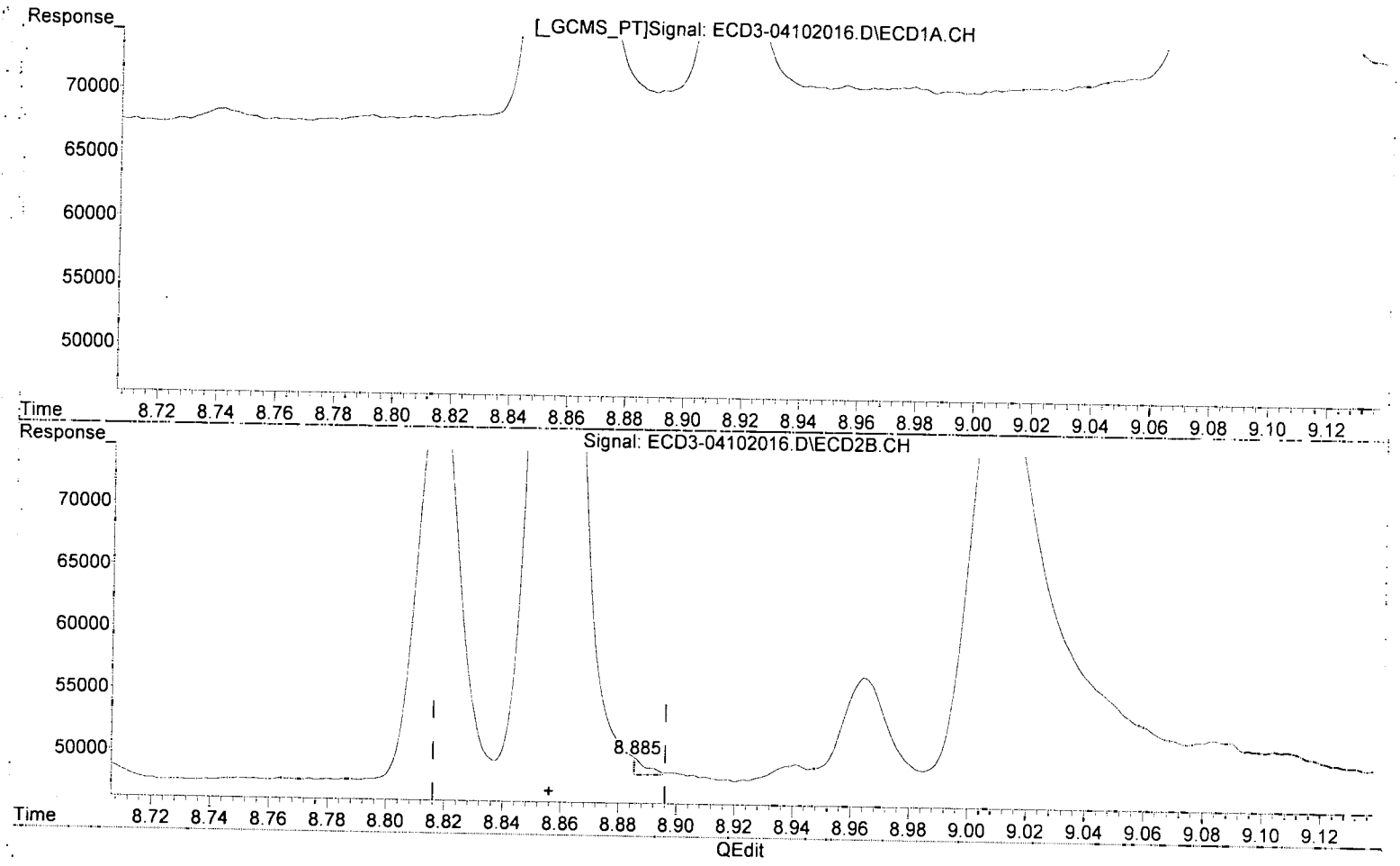


R = -4.56e+001 A*A + 1.16e+005 A + 2.73e+004
Coef of Det (r^2) = 0.9920 Quadratic, 1/C^2 w/(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(30) cis-Nonachlor

8.152min -0.197 ng/mL m

response 2263

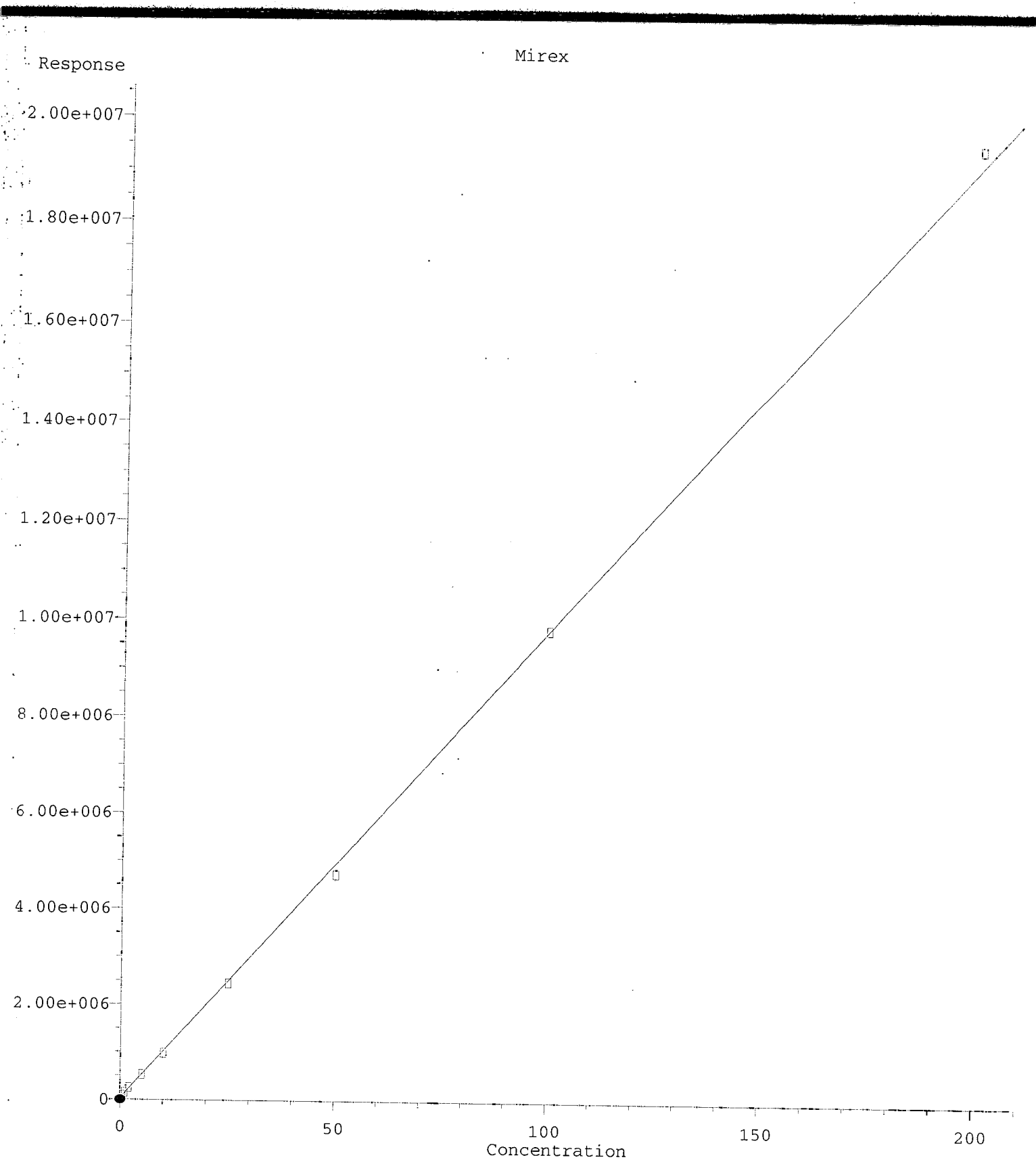
WB 4/13/20

(30) cis-Nonachlor #2

8.885min 2549.548 ng/mL m

response 1368

(+) = Expected Retention Time

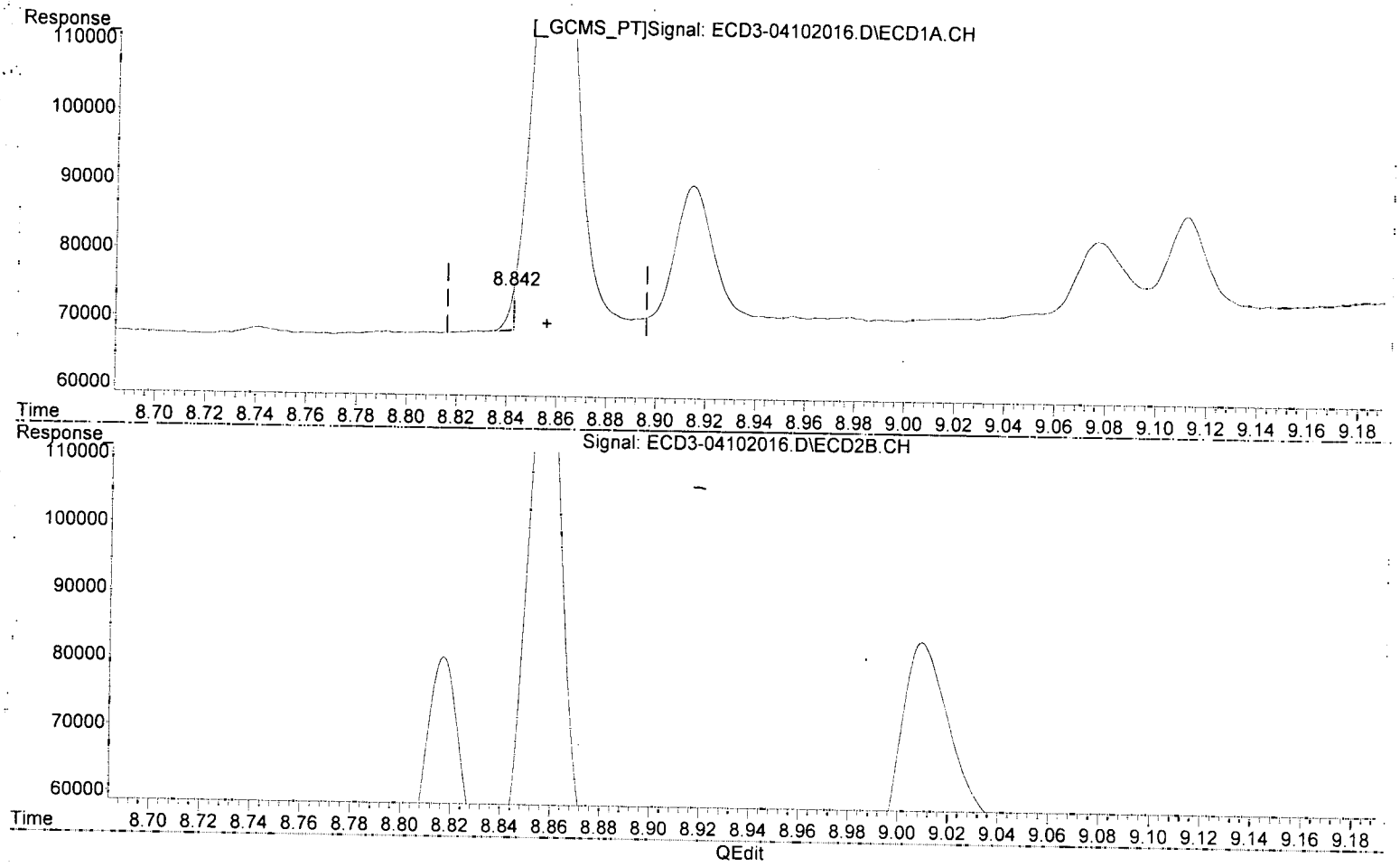


R = -1.39e+001 A*A + 9.90e+004 A + 3.66e+004
Coef of Det (r^2) = 0.9995
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.842min 7125.825 ng/mL (m) Q-DEL

response 5871

MJB 4/13/20

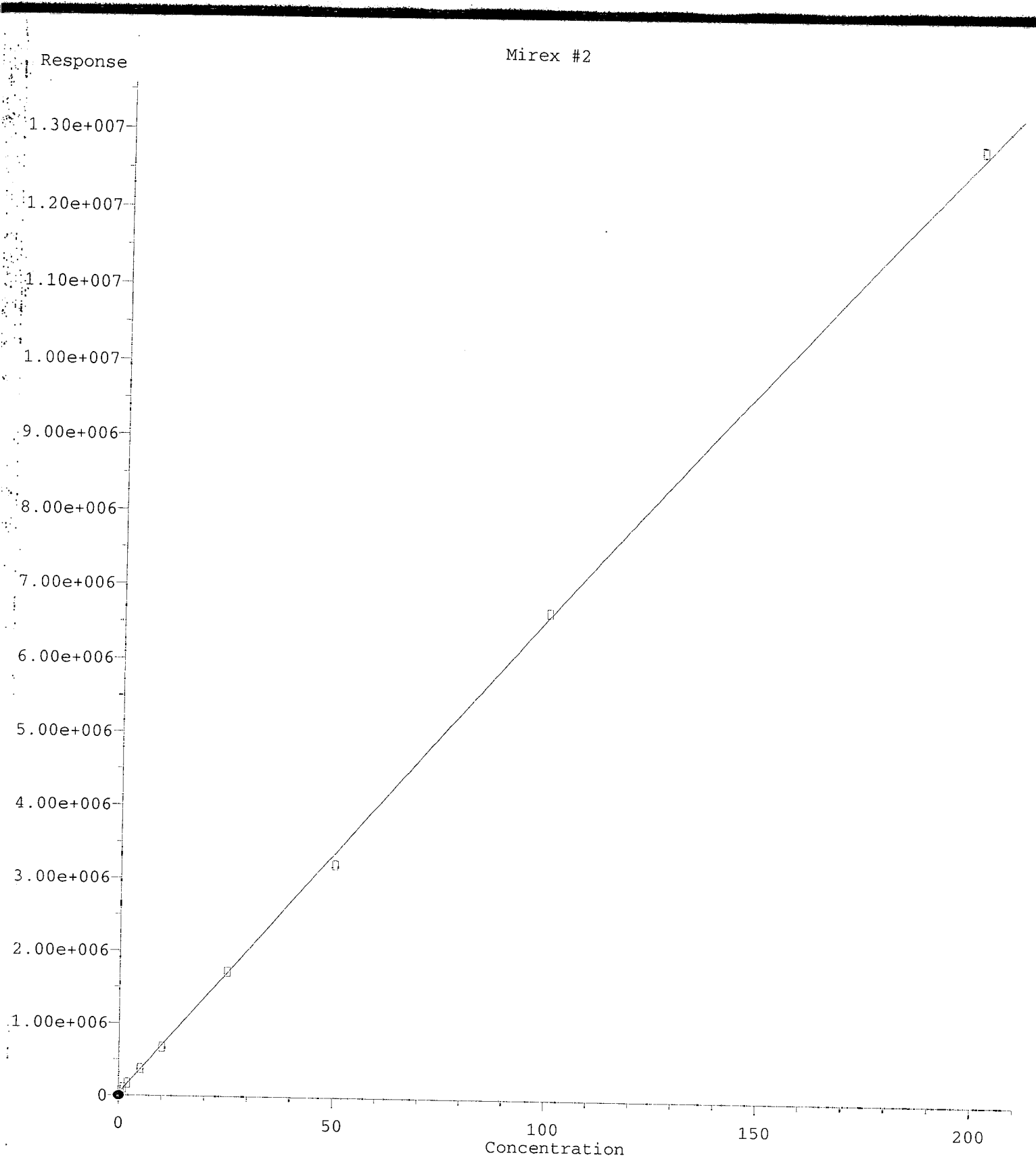
(31) Mirex #2

9.790min 0.478 ng/mL

response 60436

(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:23:11 2020

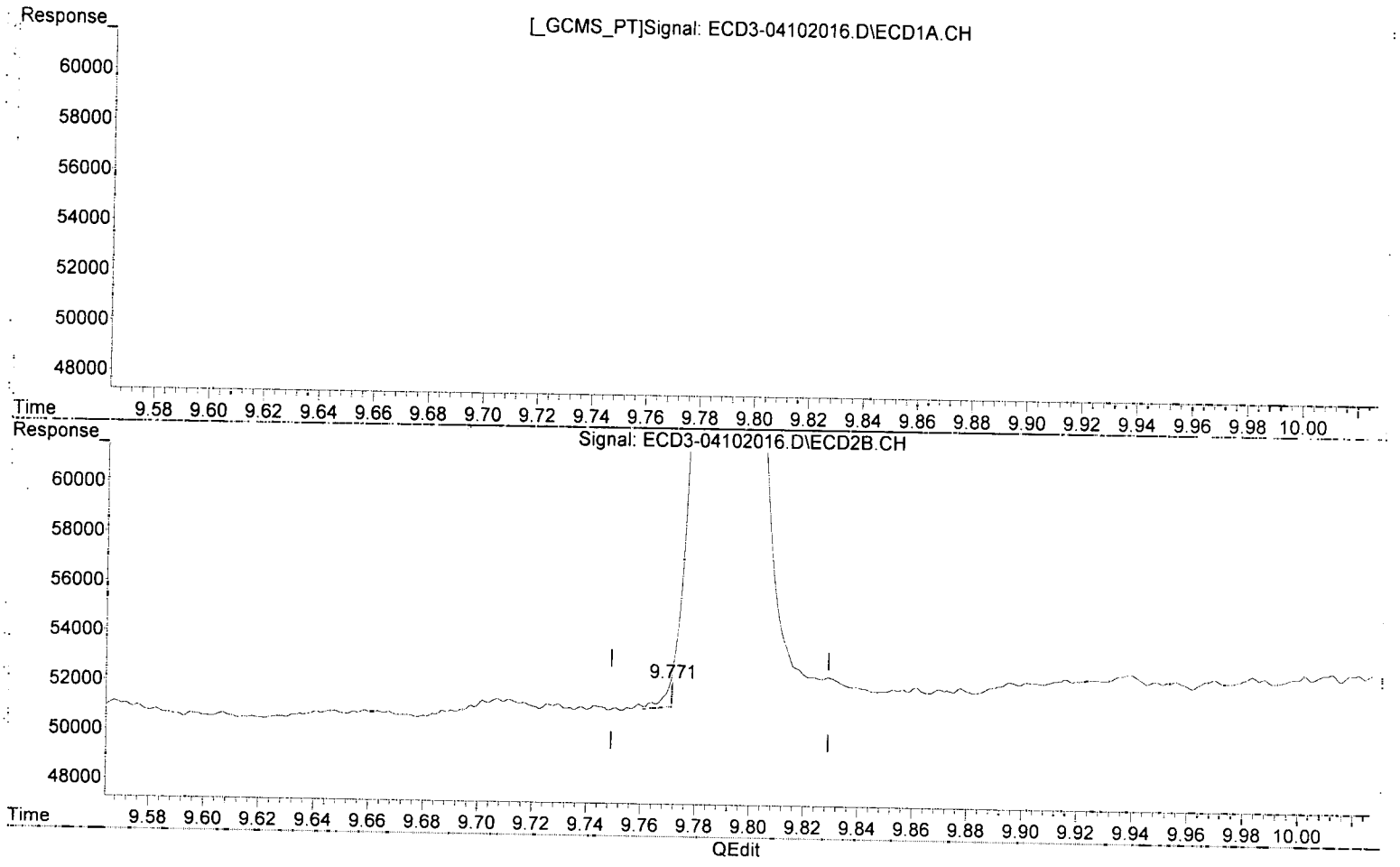


R = -1.90e+001 A*A + 6.77e+004 A + 2.80e+004
Coef of Det (r^2) = 0.998 Curve Fit : Quadratic, Origin (Ignored)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 12:24:05 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.842min 7125.825 ng/mL m

response 5871

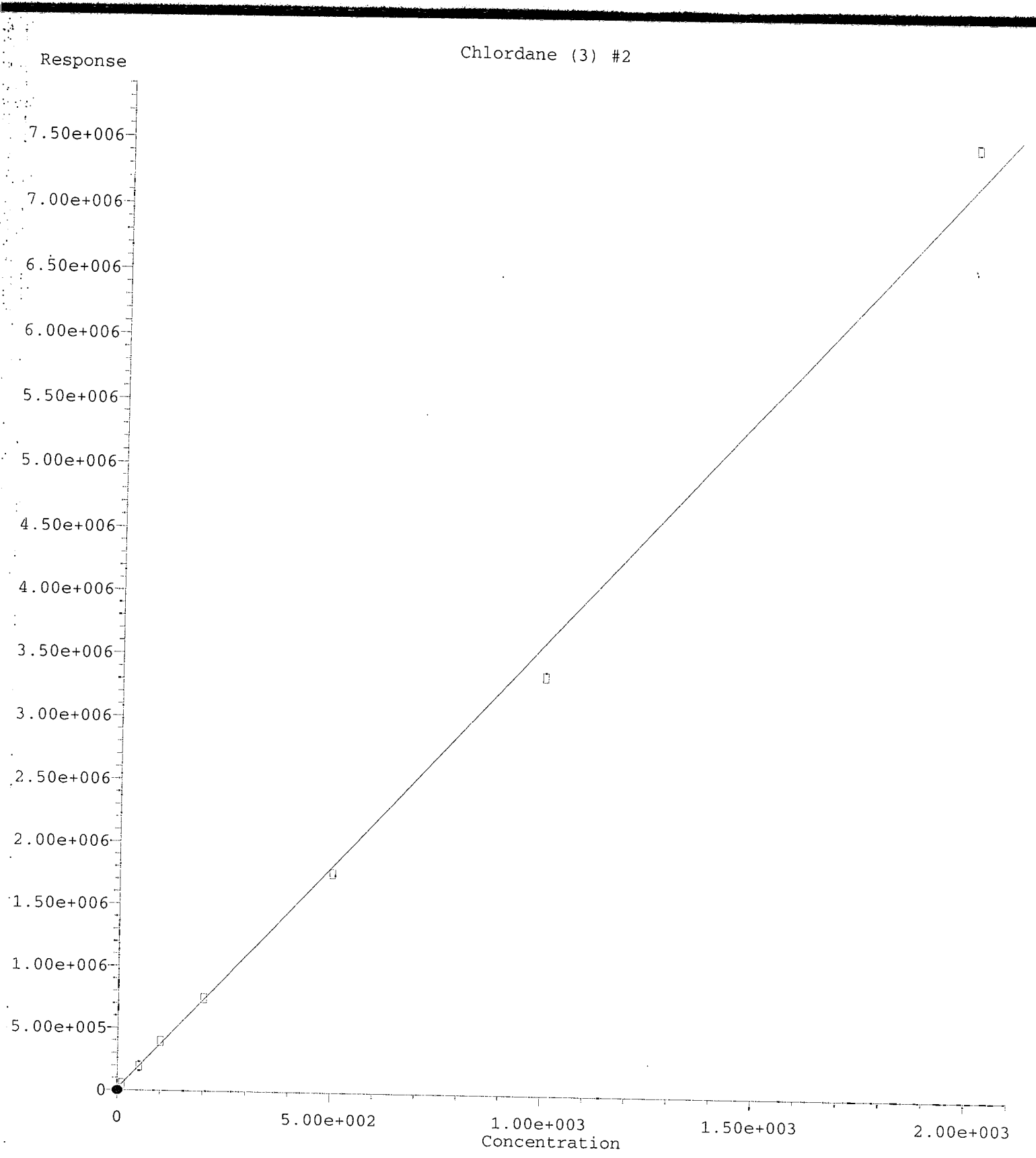
MJB 4/13/20

(31) Mirex #2

9.771min 3567.514 ng/mL (m) Q-DC1

response 970

(+) = Expected Retention Time

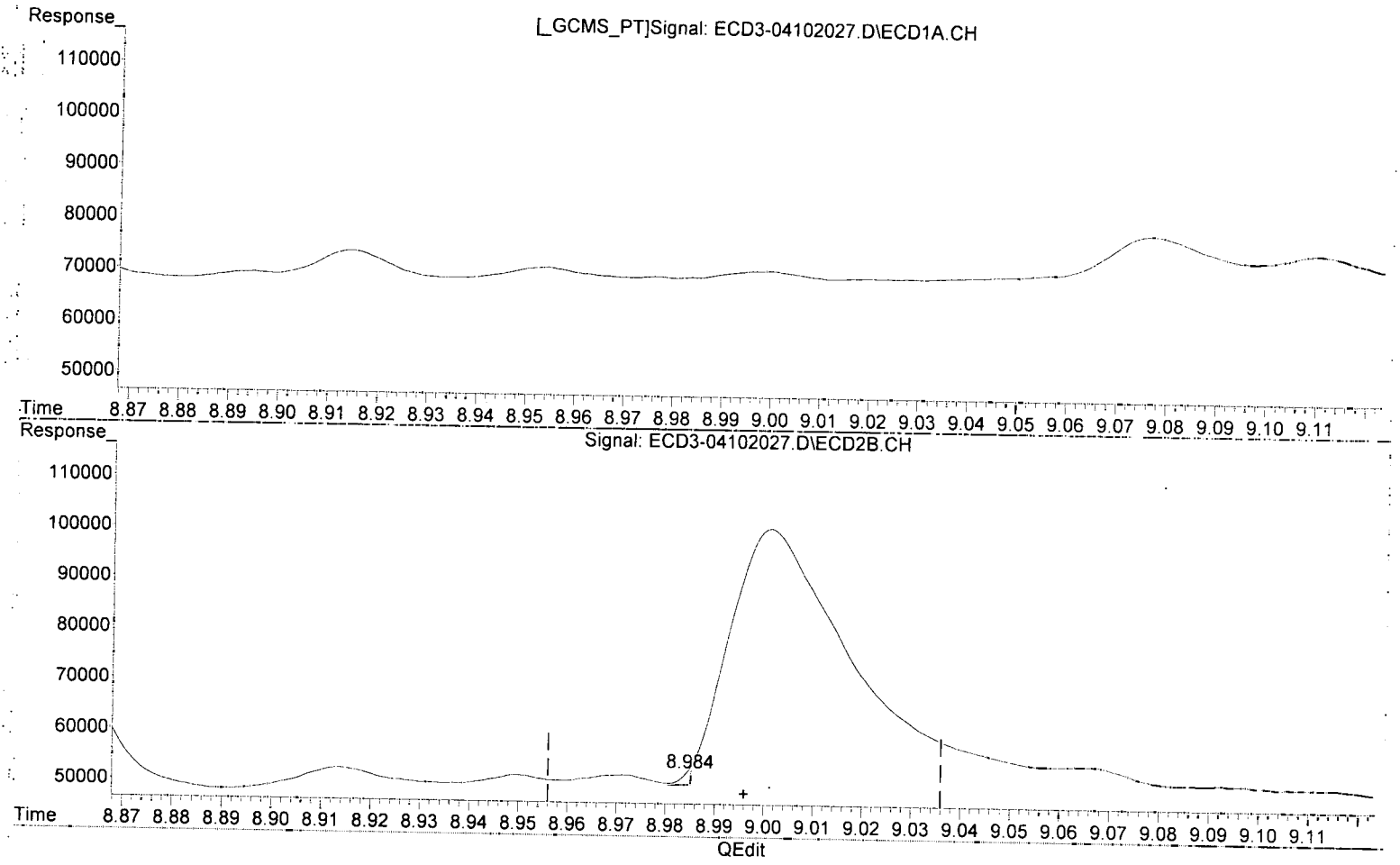


R = 5.63e-003 A*A + 3.60e+003 A + 1.56e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic, 1/x, 4a2b
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 12:24:05 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:40
Operator : MJB
Sample : 0D10031-CALJ
Misc : A20D136, CHLOR 10 ppb
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:09 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(34) Chlordane (3)

8.267min 10.437 ng/mL

response 55530

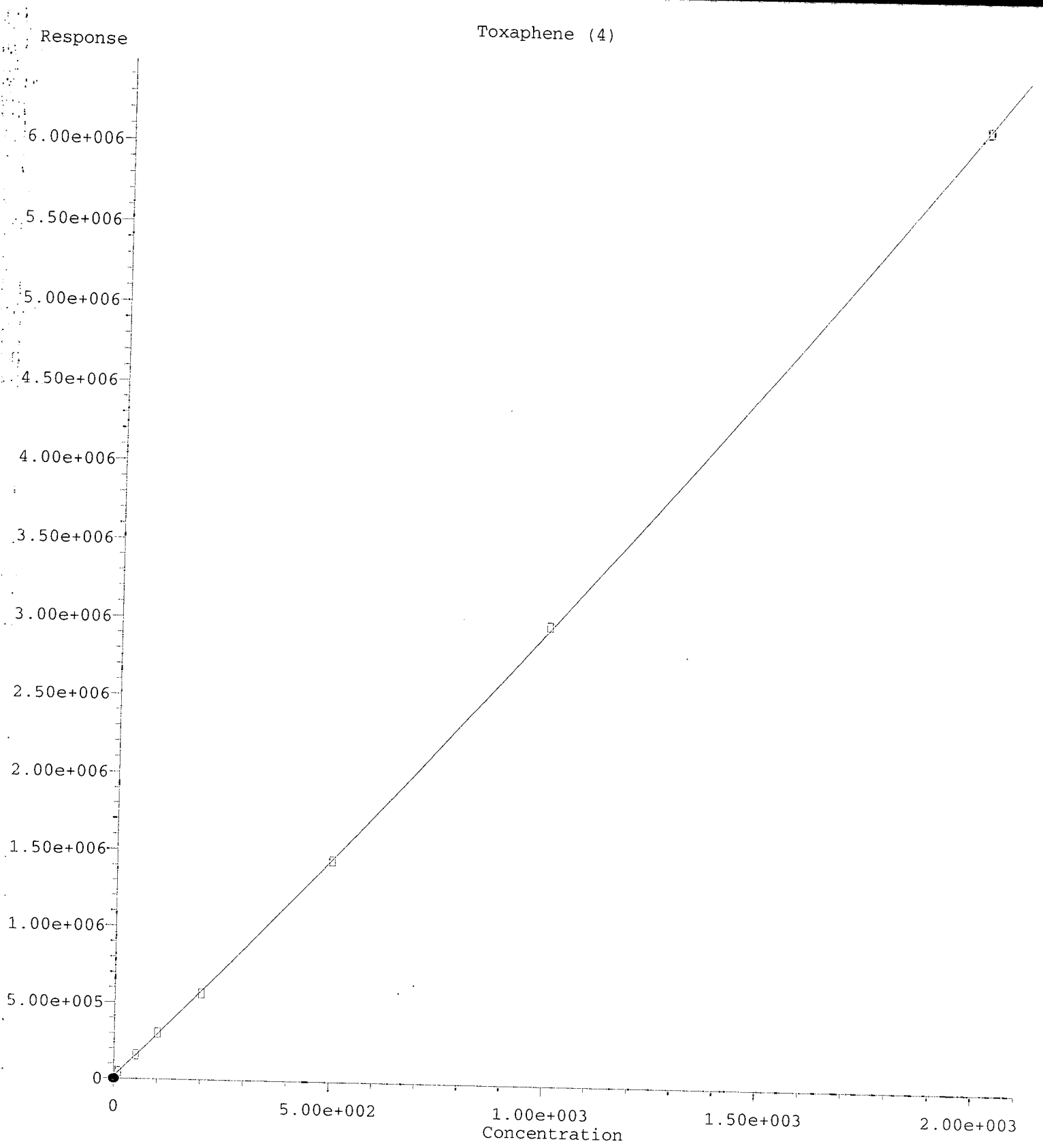
MJB 4/13/20

(34) Chlordane (3) #2

8.984min -3.622 ng/mL m

response 2573

(+) = Expected Retention Time

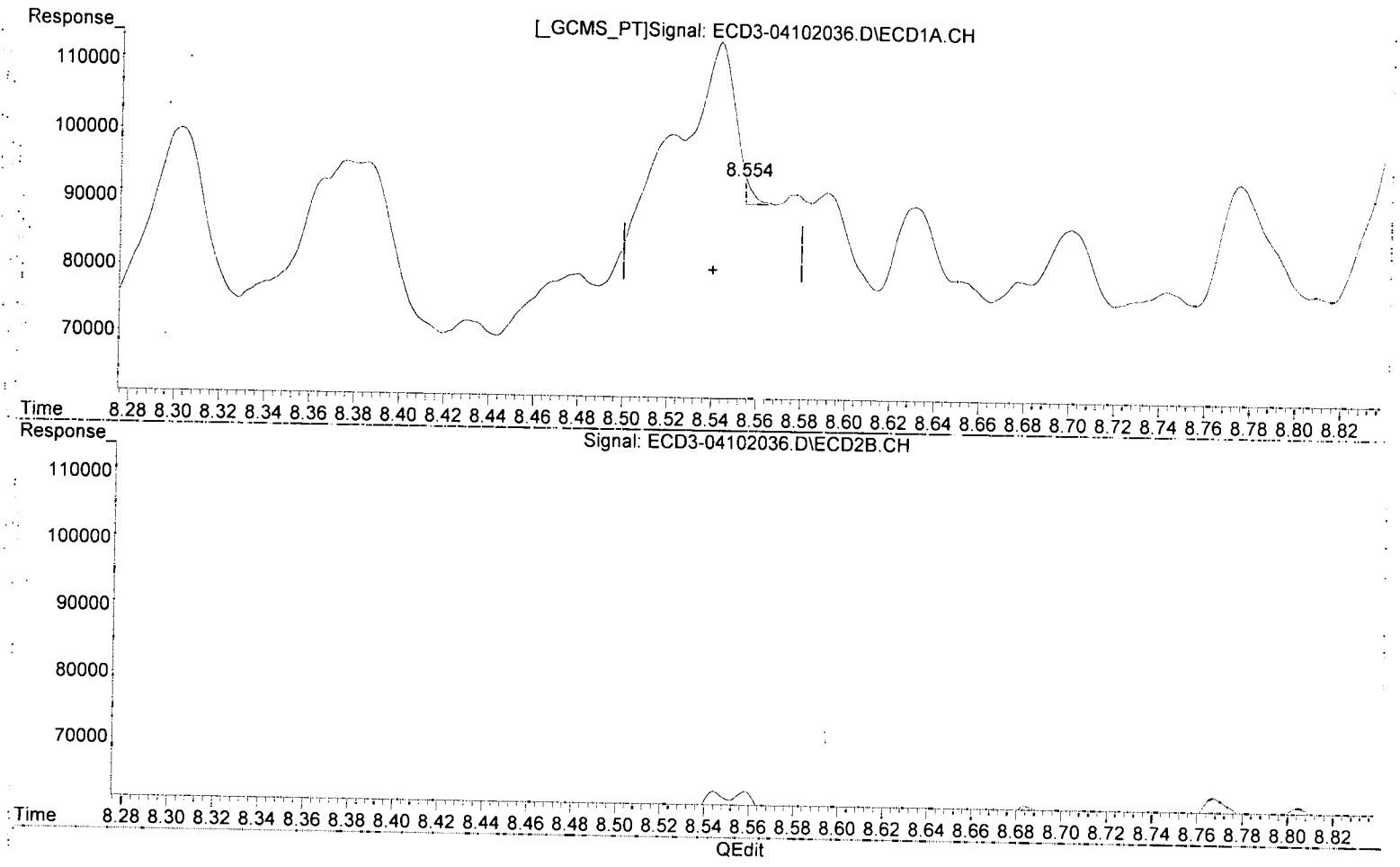


= 1.45e-001 A*A + 2.80e+003 A + 1.69e+004
oef of Det (r^2) = 1.000 Curve Fit: QuadraticD_DW 2019_43-b
ethod Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
alibration Table Last Updated: Mon Apr 13 10:04:05

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:12 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(39) Toxaphene (4)

8.554min -4.616 ng/mL (m)

response 4014

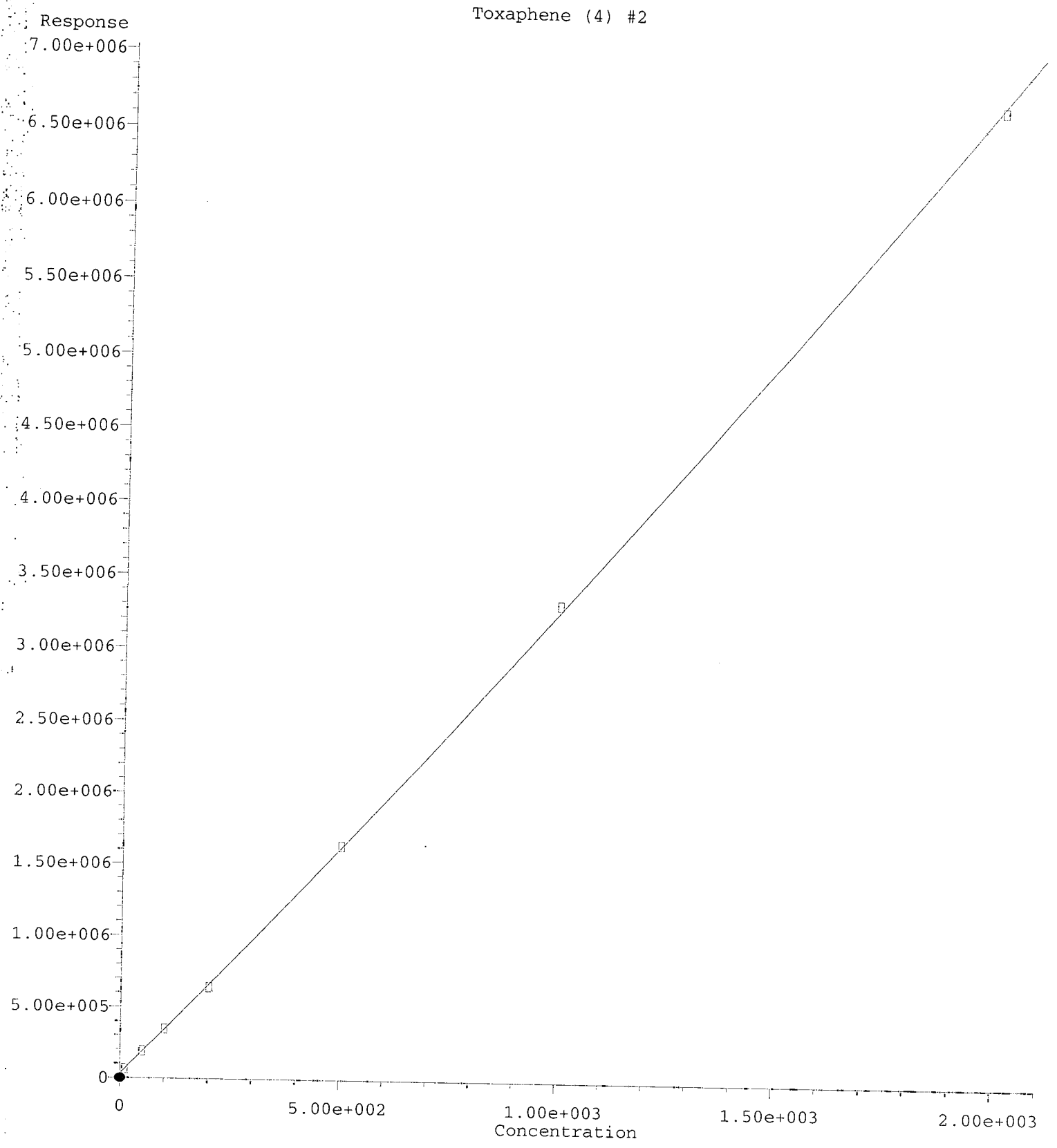
MJB 4/13/20

(39) Toxaphene (4) #2

9.011min 9.976 ng/mL

response 62570

(+) = Expected Retention Time

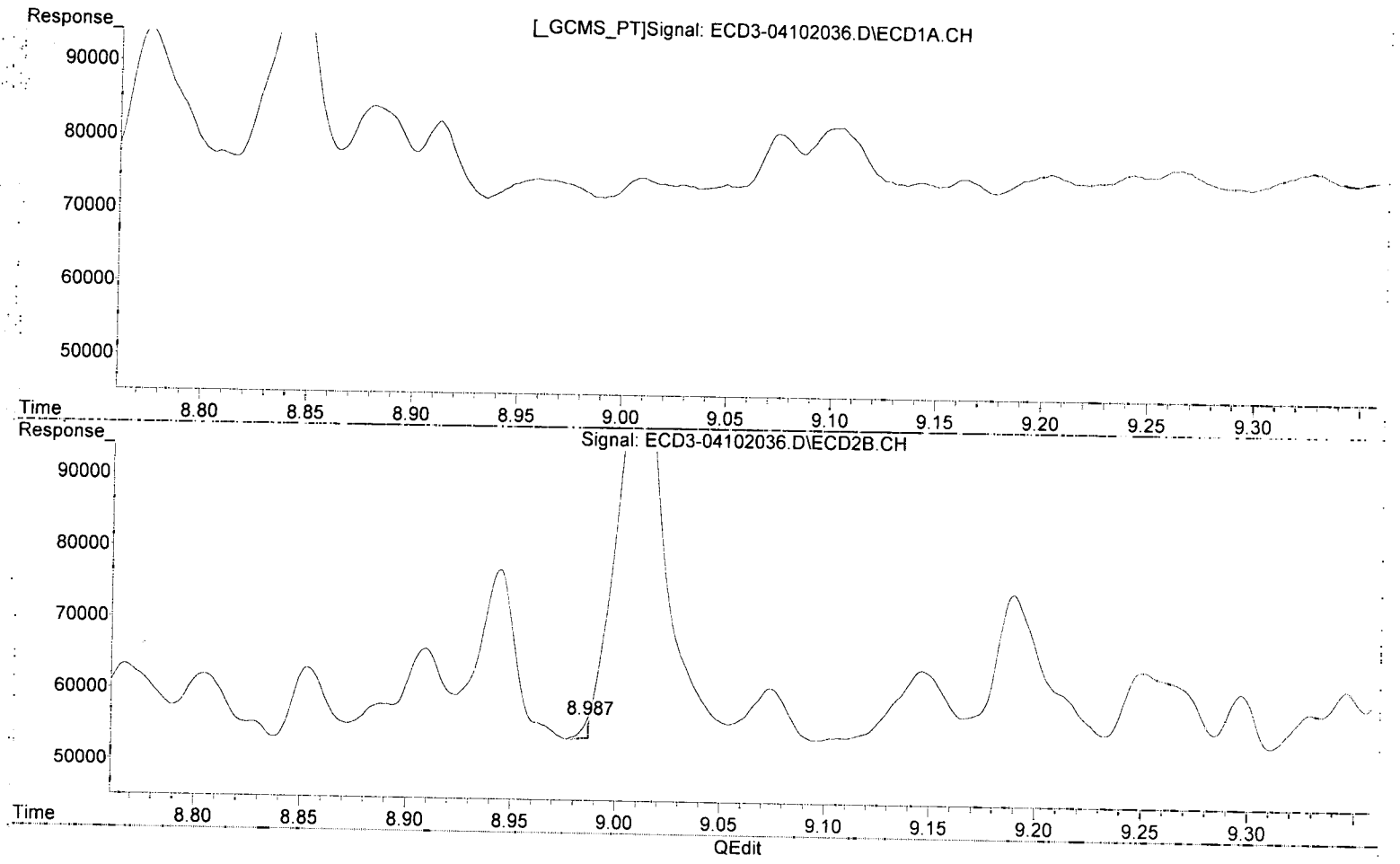


R = 1.14e-001 A*A + 3.12e+003 A + 3.14e+004
Coef of Det (r^2) = 1.000 Curve Fit: QuadraticOrigin = 0
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 12:24:05 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:12 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(39) Toxaphene (4)

8.554min -4.616 ng/mL m

response 4014

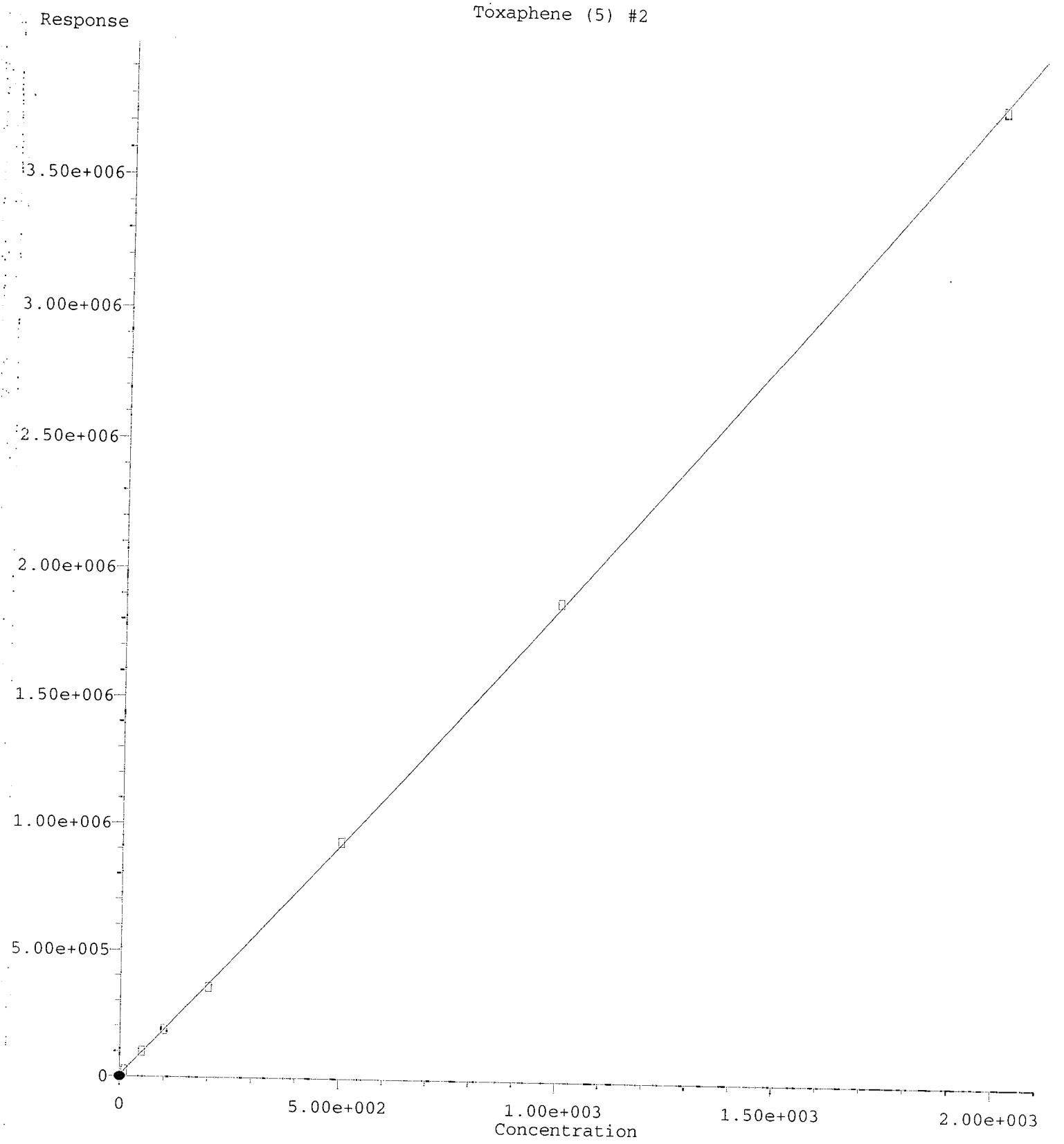
MJB 4/13/20

(39) Toxaphene (4) #2

8.986min -9.217 ng/mL (m)

response 2663

(+) = Expected Retention Time

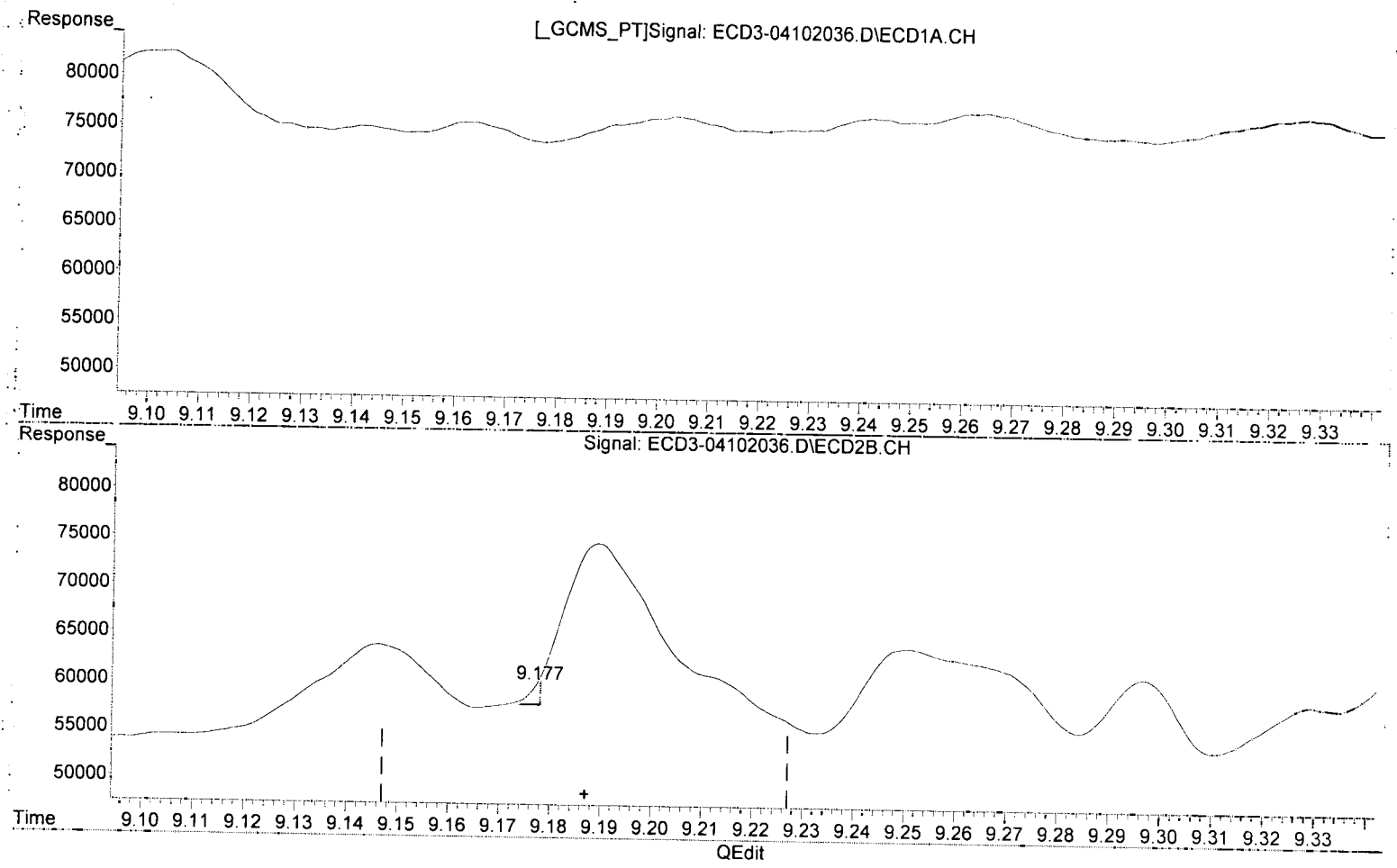


R = 4.73e-002 A*A + 1.81e+003 A + 5.91e+003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w/(1/a2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 12:24:05 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:12 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(40) Toxaphene (5)

8.775min 9.973 ng/mL

response 23487

MJB 4/13/20

(40) Toxaphene (5) #2

9.177min -2.047 ng/mL (m)

response 2211

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:05
Operator : MJB
Sample : 0D10031-ICB1
Misc : A20B383
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:25 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

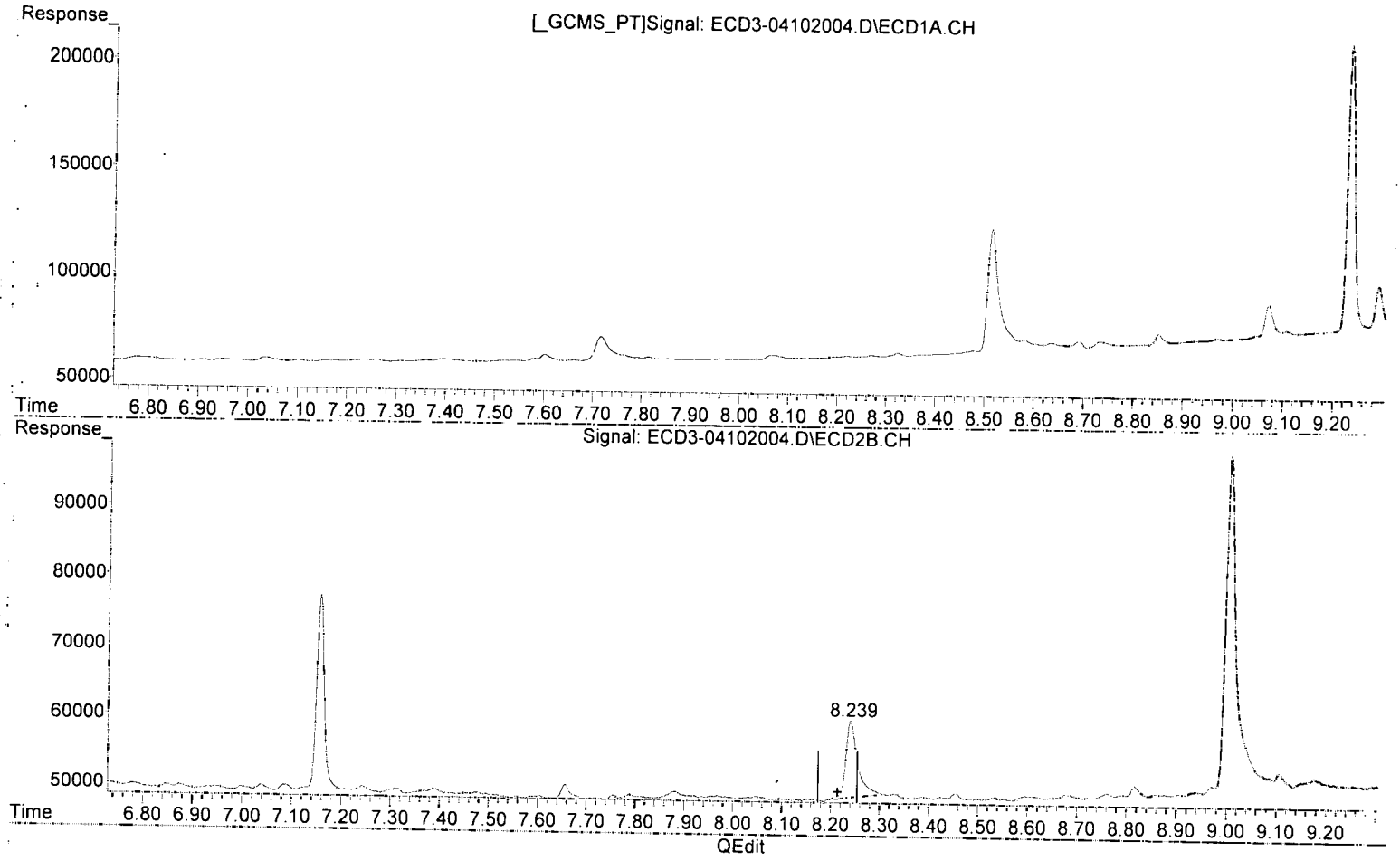
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.561	6.060	14007398	10443056	94.576	96.566
22) S	DCBP (S)	9.806	10.677	9729997	5807983	88.424	89.325
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9)	trans-Chl...	0.000	8.239	0	11031	N.D.	0.091 #
10)	cis-Chlor...	7.717	0.000	10843	0	0.069	N.D. #
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14)	Endrin	0.000	0.000	0	0	N.D.	N.D.
15)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18)	Endrin Al...	8.581f	0.000	2371	0	BelowCal	N.D.
19)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21)	Endrin Ke...	9.072f	0.000	13537	0	0.094	N.D. #
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24)	Hexachlor...	5.948	0.000	27535	0	0.004	N.D. #
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.
26)	2,4'-DDE	0.000	8.239f	0	11031	N.D.	2144.840 # QDC1
27)	trans-Non...	7.717	0.000	10843	0	BelowCal	N.D.
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29)	2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30)	cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31)	Mirex	8.851	0.000	4576	0	7125.838 QDC1	N.D.
32)	Chlordane...	0.000	8.239	0	11031	N.D.	0.763 #
33)	Chlordane...	7.717	0.000	10843	0	0.523	N.D. #
34)	Chlordane...	0.000	9.003	0	47406	N.D.	8.840 #
35)	Chlordane...	0.000	3.829f	0	11722	N.D.	NoCal
36)	Toxaphene...	7.717f	0.000	10843	0	13.026	N.D. #
37)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39)	Toxaphene...	8.514f	9.003	56698	47406	14.221	5.121 #
40)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
41)	Toxaphene...	8.851	0.000	4576	0	1.509	N.D. #
42)	Toxaphene...	0.000	3.829f	0	11722	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:05
Operator : MJB
Sample : 0D10031-ICB1
Misc : A20B383
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:25 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

0.000min 0.000 ng/mL

response 0

MJB 4/13/20

(26) 2,4'-DDE #2

8.239min 2144.840 ng/mL a-DD

response 11031

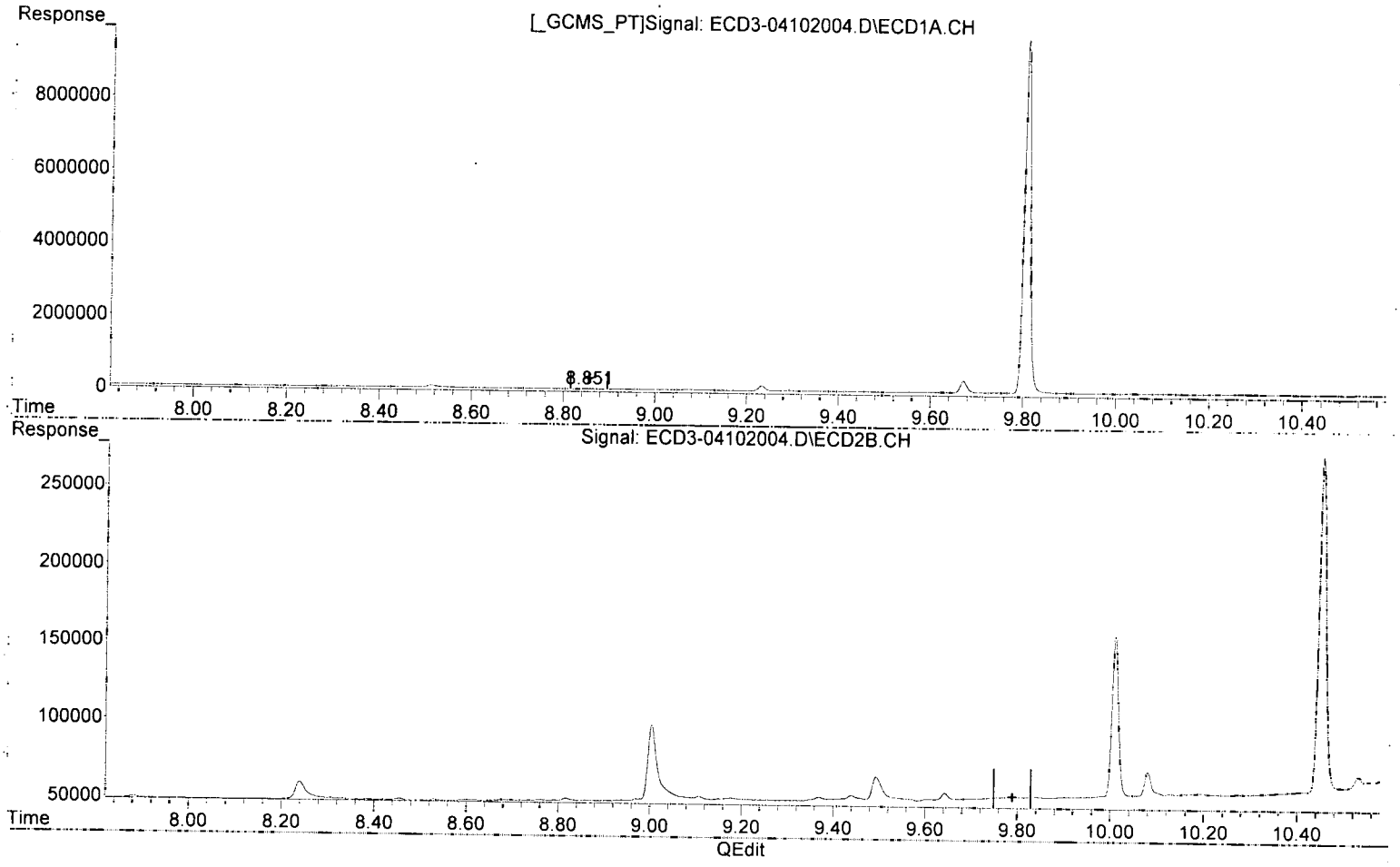
(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:48:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:05
Operator : MJB
Sample : 0D10031-ICB1
Misc : A20B383
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:25 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.851min 7125.838 ng/mL QDCI

response 4576

MJB 4/13/20

(31) Mirex #2

0.000min 0.000 ng/mL

response 0

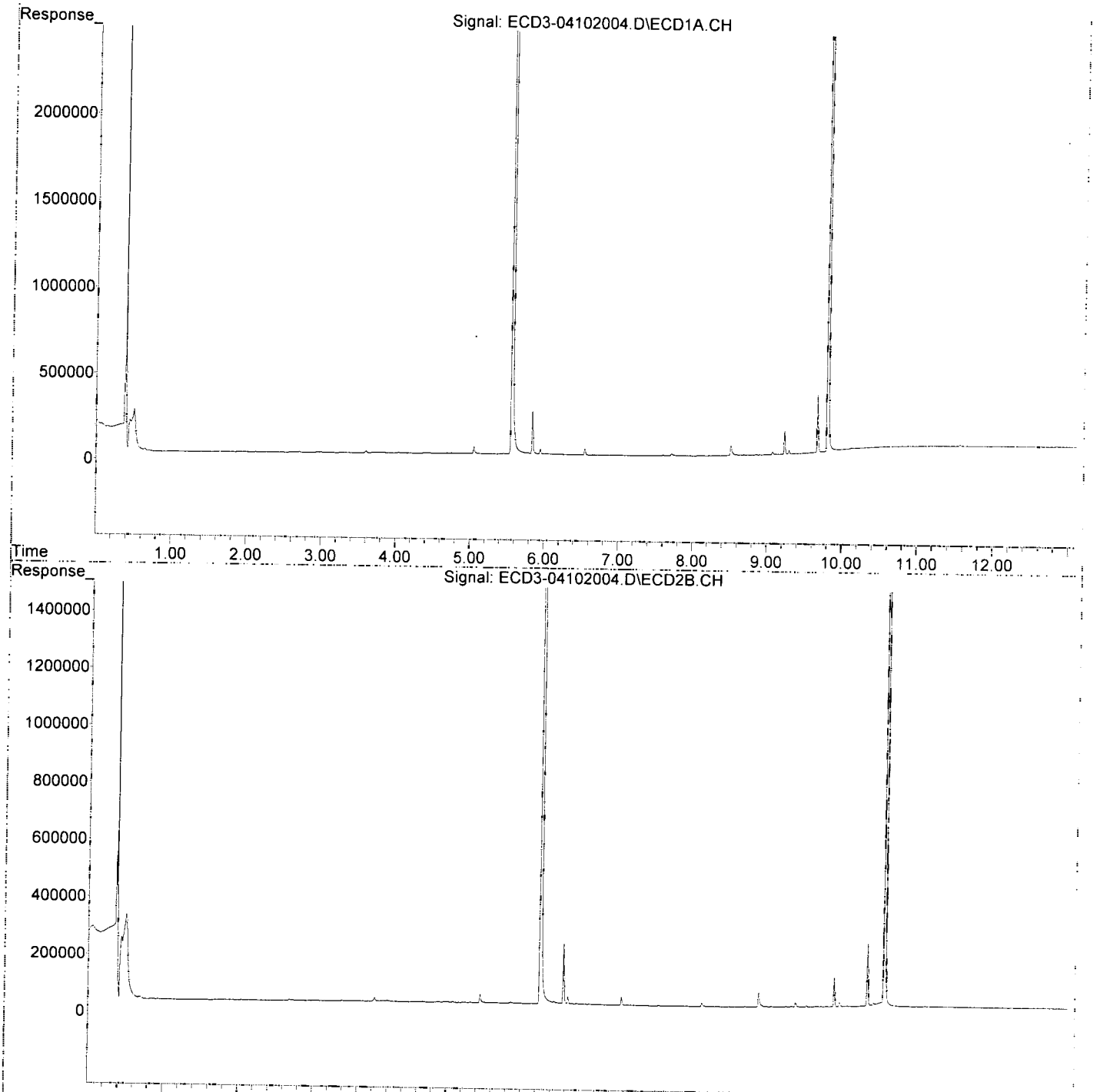
(+) = Expected Retention Time

ECD3_QUANTPEST_200410.M Mon Apr 13 14:48:29 2020 Page: 1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:05
Operator : MJB
Sample : 0D10031-ICB1
Misc : A20B383
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:25 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:57
Operator : MJB
Sample : 0D10031-IBL1
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:30 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 04.13.20

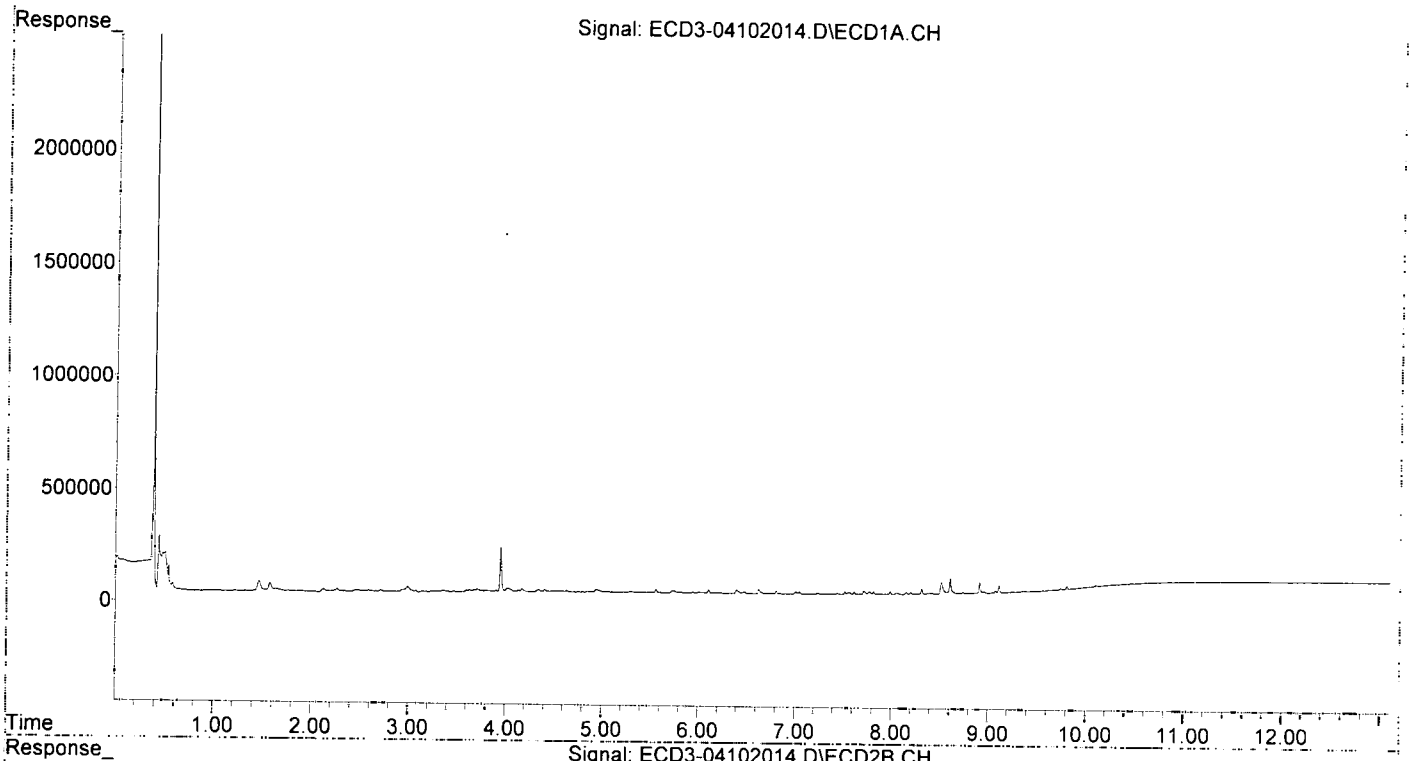
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.562	6.062	14361	12632	0.097	~~1884.003~~ #
22) S	DCBP (S)	9.807	10.678	13290	9714	BelowCal	~~2279.945~~
	Target Compounds						
2)	a-BHC	6.107	6.673	14014	10733	0.069	0.068
3)	g-BHC	6.398	6.994	16677	10541	0.097	0.078
4)	b-BHC	6.474	7.061	8495	8184	0.125	0.133
5)	Heptachlor	6.808	7.371	11726	11317	0.072	0.100
6)	d-BHC	6.628	7.318	20172	20828	0.144	0.170
7)	Aldrin	7.051	7.640	10541	8100	0.063	0.061
8)	Heptachlo...	7.520	8.082	12548	10144	0.080	0.086
9)	trans-Chl...	7.616	8.222	11349	10417	0.072	0.086
10)	cis-Chlor...	7.715	8.330	15644	10710	0.100	0.092
11)	Endosulfa...	7.815	8.383	11297	8792	0.079	0.082
12)	4,4'-DDE	7.774	8.438	11571	8379	0.080	0.073
13)	Dieldrin	7.988	8.585	12966	10365	0.081	0.087
14)	Endrin	8.155	8.814	9100	7342	0.074	0.085
15)	4,4'-DDD	8.202	8.857	8238	7914	0.068	0.084
16)	Endosulfa...	8.315	8.962	23751	19447	0.196	0.212
17)	4,4'-DDT	8.399	9.085	6071	5870	0.163	0.178
18)	Endrin Al...	8.608	9.202	68986	54792	0.446	0.441
19)	Endosulfa...	8.913	9.393	47417	32882	0.394	0.391
20)	Methoxychlor	8.740	9.568	5455	3270	0.171	0.171
21)	Endrin Ke...	9.111	9.796	32767	23268	0.227	0.243
23)	Hexachlor...	3.356	3.753	2848	7057	~~2108.686~~	~~838.034~~ #
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.
26)	2,4'-DDE	7.520	8.222	12548	10417	BelowCal	~~2144.848~~
27)	trans-Non...	7.715	0.000	15644	0	BelowCal	N.D.
28)	2,4'-DDD	0.000	8.585	0	10365	N.D.	~~3167.731~~ #
29)	2,4'-DDT	8.056f	8.814	6163	7342	0.082	0.137 #
30)	cis-Nonac...	8.202f	8.857	8238	7914	BelowCal	~~2549.492~~
31)	Mirex	0.000	9.796	0	23268	N.D.	~~3567.185~~ #
32)	Chlordane...	7.616	8.222	11349	10417	0.643	0.720
33)	Chlordane...	7.715	8.330	15644	10710	0.755	0.866
34)	Chlordane...	0.000	9.006	0	38549	N.D.	6.378 #
35)	Chlordane...	0.000	3.753f	0	7057	N.D.	NoCal
36)	Toxaphene...	7.715f	8.585f	15644	10365	18.793	9.254 #
37)	Toxaphene...	7.988	0.000	12966	0	8.605	N.D. #
38)	Toxaphene...	8.315	8.962f	23751	19447	7.636	8.960
39)	Toxaphene...	8.517f	9.006	50469	38549	11.996	2.284 #
40)	Toxaphene...	8.740f	9.202	5455	54792	2.316	27.007 #
41)	Toxaphene...	0.000	9.568	0	3270	N.D.	1.616 #
42)	Toxaphene...	0.000	3.753f	0	7057	N.D.	NoCal

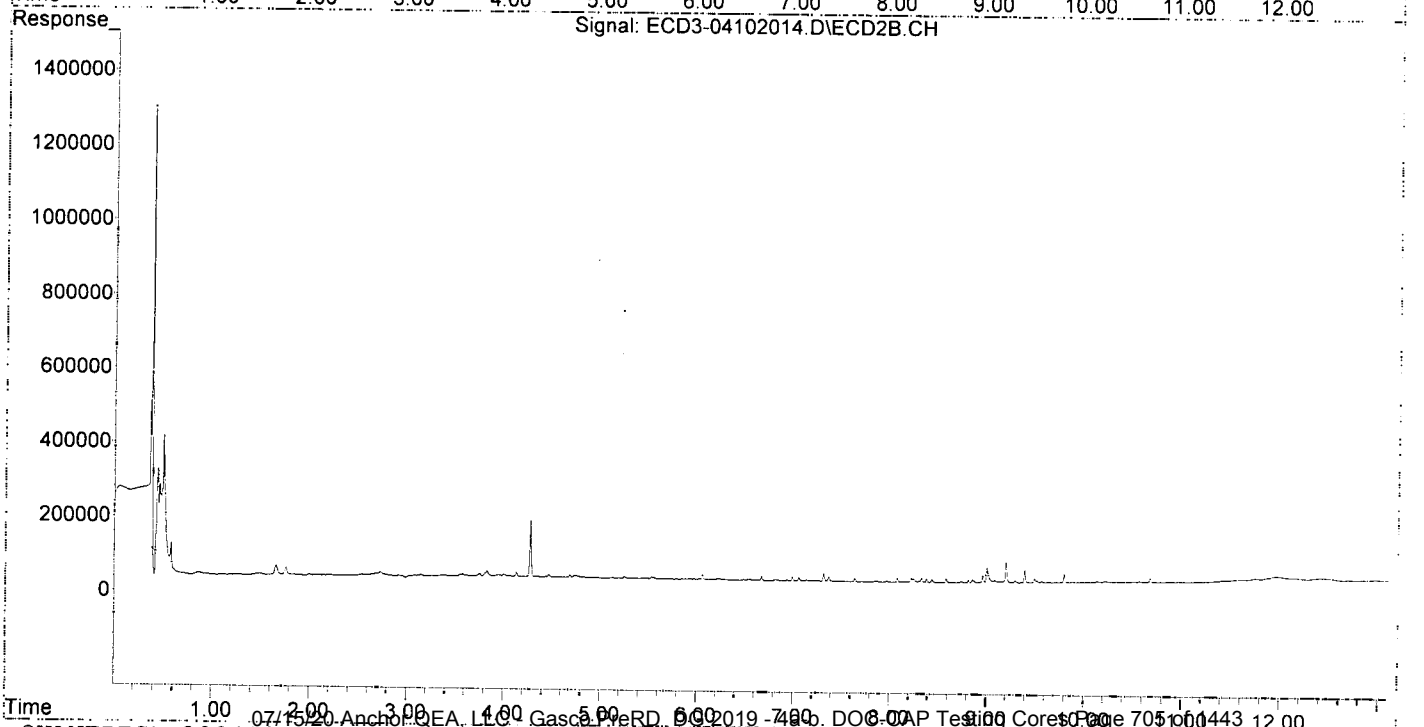
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:57
Operator : MJB
Sample : 0D10031-IBL1
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:30 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:14
Operator : MJB
Sample : 0D10031-ICV1
Misc : A20C164, AB 50 ppb
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

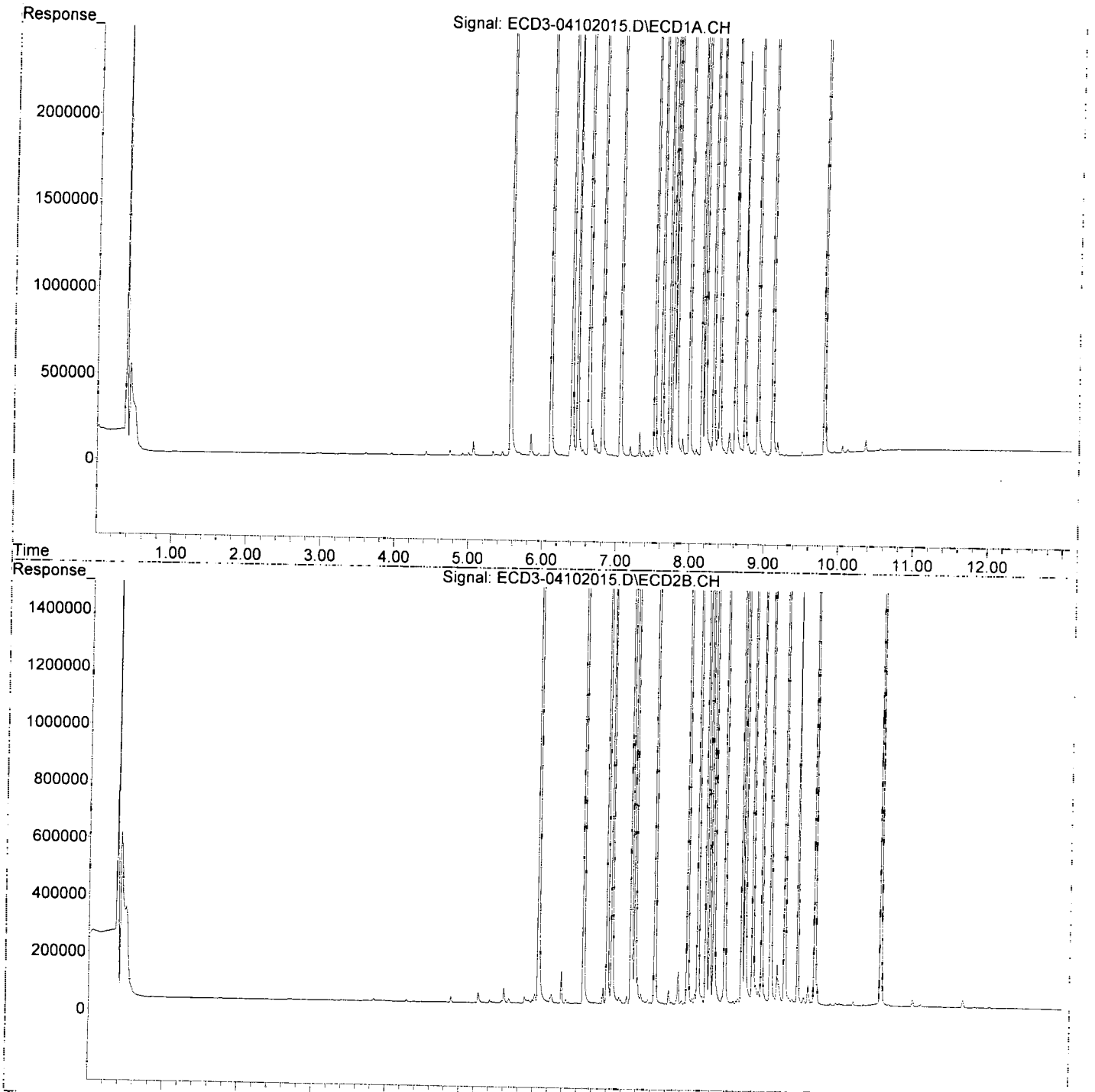
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.562	6.062	7154712	5672290	48.308	51.085	
22)	S DCBP (S)	9.807	10.679	5506550	3301372	50.007	49.766	
	Target Compounds							
2)	a-BHC	6.108	6.674	9990849	7656433	49.388	48.775	
3)	g-BHC	6.395	6.994	8960585	6704038	51.891	49.761	
4)	b-BHC	6.470	7.058	3450860	2893841	50.583	47.118	
5)	Heptachlor	6.808	7.371	7884934	5476181	48.153	48.375	
6)	d-BHC	6.624	7.316	7275741	6112992	51.833	50.010	
7)	Aldrin	7.053	7.641	8323743	6385572	49.652	48.049	
8)	Heptachlo...	7.520	8.082	7527788	5671738	48.137	48.191	
9)	trans-Chl...	7.615	8.222	7716593	5714580	49.038	47.384	
10)	cis-Chlor...	7.713	8.331	7596984	5445858	48.398	47.017	
11)	Endosulfa...	7.813	8.382	7061479	4957120	49.201	46.096	
12)	4,4'-DDE	7.773	8.437	7516432	5506386	52.106	47.819	
13)	Dieldrin	7.987	8.585	8017113	5795907	49.885	48.403	
14)	Endrin	8.154	8.814	6412704	4529791	51.982	52.398	
15)	4,4'-DDD	8.199	8.856	6225104	4434080	51.276	46.988	
16)	Endosulfa...	8.313	8.962	6332639	4710664	52.314	51.360	
17)	4,4'-DDT	8.399	9.085	5121856	3288899	52.934	53.995	
18)	Endrin Al...	8.606	9.201	5070095	3994540	48.919	50.227	
19)	Endosulfa...	8.912	9.393	6161467	4329515	51.150	51.433	
20)	Methoxychlor	8.737	9.568	2347710	1503159	51.682	52.275	
21)	Endrin Ke...	9.110	9.797	7009815	4671717	48.663	48.829	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.948	0.000	15381	0	BelowCal	N.D.	
25)	Oxychlordane	7.454	8.005	39125	12684	0.103	3277.609	#
26)	2,4'-DDE	7.520	8.222	7527788	5714580	81.235	76.347	
27)	trans-Non...	7.713	8.279	7596984	27126	52.606	0.026	#
28)	2,4'-DDD	7.896	8.585	102411	5795907	1.040	89.262	#
29)	2,4'-DDT	8.080	8.814	40626	4529791	0.540	84.449	#
30)	cis-Nonac...	8.199f	8.856	6225104	4434080	40.214	38.459	
31)	Mirex	8.861	9.797	27601	4671717	7125.605	69.931	#
32)	Chlordane...	7.615	8.222	7716593	5714580	437.189	395.002	
33)	Chlordane...	7.713	8.331	7596984	5445858	366.614	440.555	
34)	Chlordane...	0.000	9.005	0	62900	N.D.	13.146	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.713f	8.585f	7596984	5795907	9126.435	5175.004	#
37)	Toxaphene...	7.987	0.000	8017113	0	5320.497	N.D.	#
38)	Toxaphene...	8.313	8.962f	6332639	4710664	2035.979	2170.468	
39)	Toxaphene...	8.529	9.005	134285	62900	41.895	10.082	#
40)	Toxaphene...	8.783	9.201	69128	3994540	29.352	2090.983	#
41)	Toxaphene...	8.861	9.568	27601	1503159	9.099	742.670	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:14
Operator : MJB
Sample : 0D10031-ICV1
Misc : A20C164, AB 50 ppb
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:06
Operator : MJB
Sample : 0D10031-IBL2
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:39 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

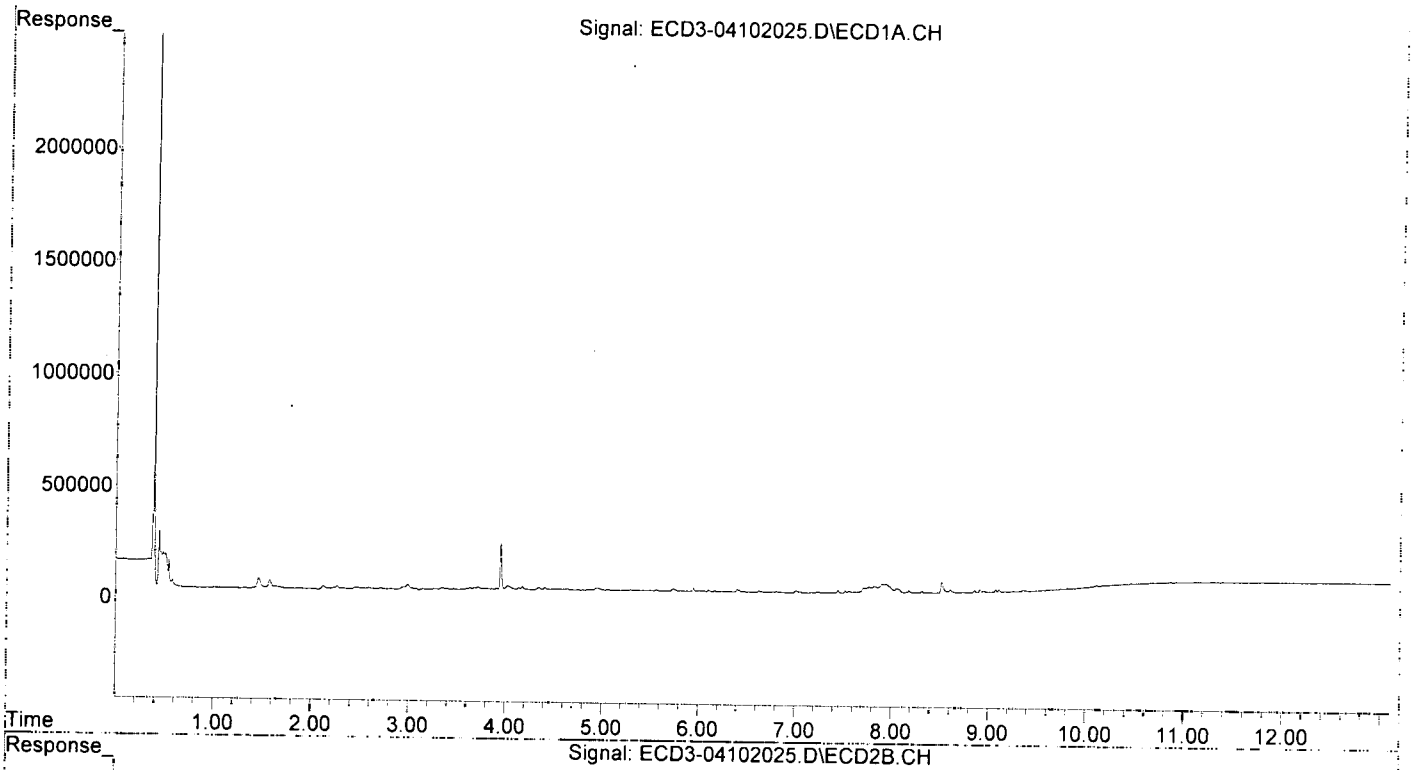
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.061	0	3427	N.D.	~~1884.084~~	#
22)	S	DCBP (S)	9.807	0.000	5528	0	BelowCal	N.D.	
		Target Compounds							
2)		a-BHC	6.107	6.673	6446	3877	0.032	0.025	
3)		g-BHC	6.400	6.994	9454	3651	0.055	0.027	#
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	6.808	7.371	4782	5715	0.029	0.050	#
6)		d-BHC	6.629	7.318	3733	6502	0.027	0.053	#
7)		Aldrin	0.000	7.640	0	3231	N.D.	0.024	#
8)		Heptachlo...	7.521	8.082	10797	3892	0.069	0.033	#
9)		trans-Chl...	7.616	8.218	5400	9201	0.034	0.076	#
10)		cis-Chlor...	7.710	8.330	22176	6644	0.141	0.057	#
11)		Endosulfa...	7.817	8.382	29528	3636	0.206	0.034	#
12)		4,4'-DDE	7.772	0.000	26506	0	0.184	N.D.	#
13)		Dieldrin	0.000	8.589	0	8738	N.D.	0.073	#
14)		Endrin	8.179f	8.816	10284	6914	0.083	0.080	
15)		4,4'-DDD	8.179f	8.857	10284	12203	0.085	0.129	#
16)		Endosulfa...	8.315	8.963	8143	7533	0.067	0.082	
17)		4,4'-DDT	0.000	9.085	0	4018	N.D.	0.144	#
18)		Endrin Al...	8.608	9.201	13624	11092	BelowCal	~~3407.070~~	
19)		Endosulfa...	8.914	9.393	13721	10139	0.114	0.120	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	9.110	9.794	11632	12079	0.081	0.126	#
23)		Hexachlor...	3.343	3.735	5469	7461	~~2108.670~~	~~838.032~~	#
24)		Hexachlor...	5.948	6.532	13572	13074	BelowCal	~~2197.509~~	
25)		Oxychlordane	7.445	8.010	11916	7937	BelowCal	~~3277.657~~	
26)		2,4'-DDE	7.521	8.218	10797	9201	BelowCal	~~2144.864~~	
27)		trans-Non...	7.710	8.286	22176	10027	BelowCal	~~1953.472~~	
28)		2,4'-DDD	7.901	8.589	39084	8738	0.262	~~3167.756~~	#
29)		2,4'-DDT	8.054f	8.816	19632	6914	0.261	0.129	#
30)		cis-Nonac...	8.179	8.857	10284	12203	BelowCal	~~2549.455~~	
31)		Mirex	8.856	9.794	9473	12079	~~7125.788~~	~~3567.351~~	#
32)		Chlordane...	7.616	8.218	5400	9201	0.306	0.636	#
33)		Chlordane...	7.710	8.330	22176	6644	1.070	0.538	#
34)		Chlordane...	0.000	9.008	0	35785	N.D.	5.609	#
35)		Chlordane...	0.000	3.751f	0	8586	N.D.	NoCal	
36)		Toxaphene...	7.710f	8.589f	22176	8738	26.641	7.802	#
37)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)		Toxaphene...	8.315	8.963f	8143	7533	2.618	3.471	
39)		Toxaphene...	8.519f	9.008	48084	35785	11.143	1.398	#
40)		Toxaphene...	0.000	9.201	0	11092	N.D.	2.863	#
41)		Toxaphene...	8.856	0.000	9473	0	3.123	N.D.	#
42)		Toxaphene...	0.000	3.751f	0	8586	N.D.	NoCal	

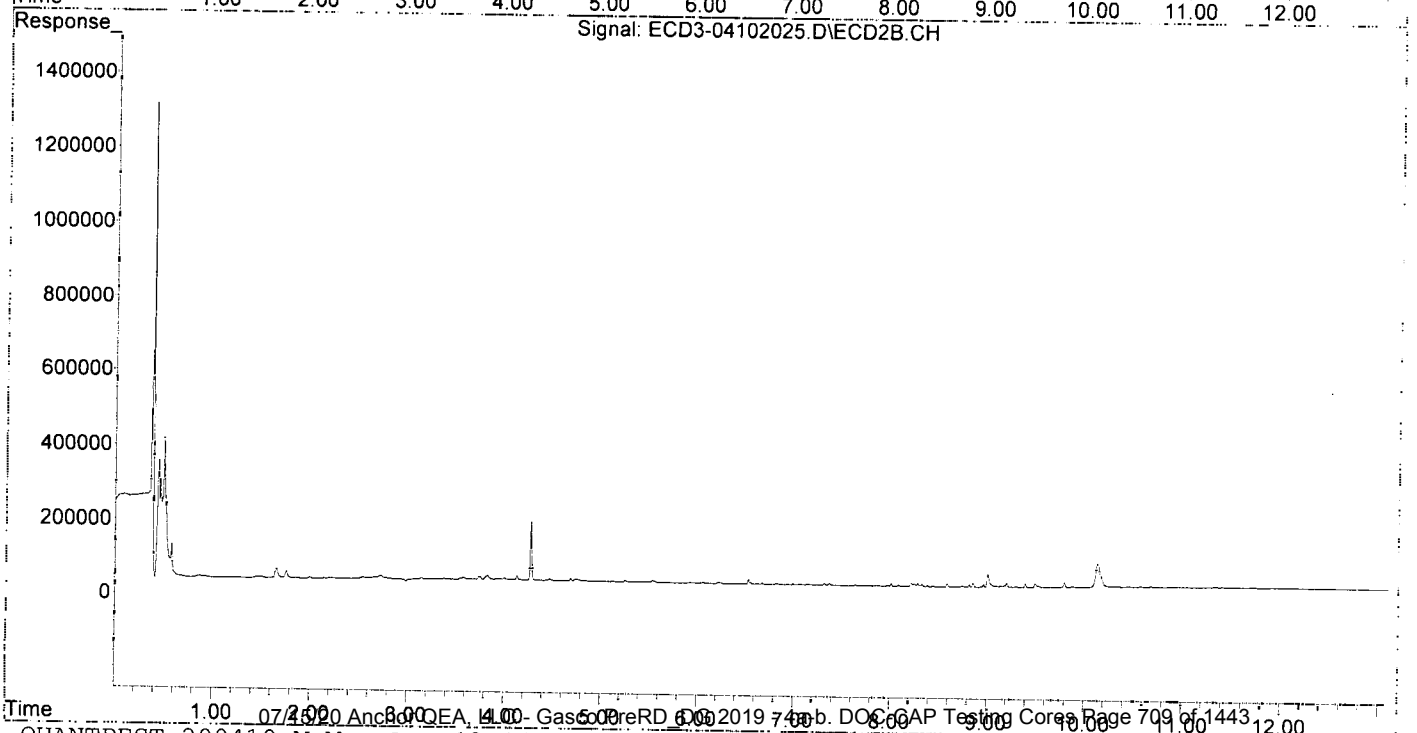
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:06
Operator : MJB
Sample : 0D10031-IBL2
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:39 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:23
Operator : MJB
Sample : 0D10031-ICV2
Misc : A20C360, 9-42 50 ppb
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

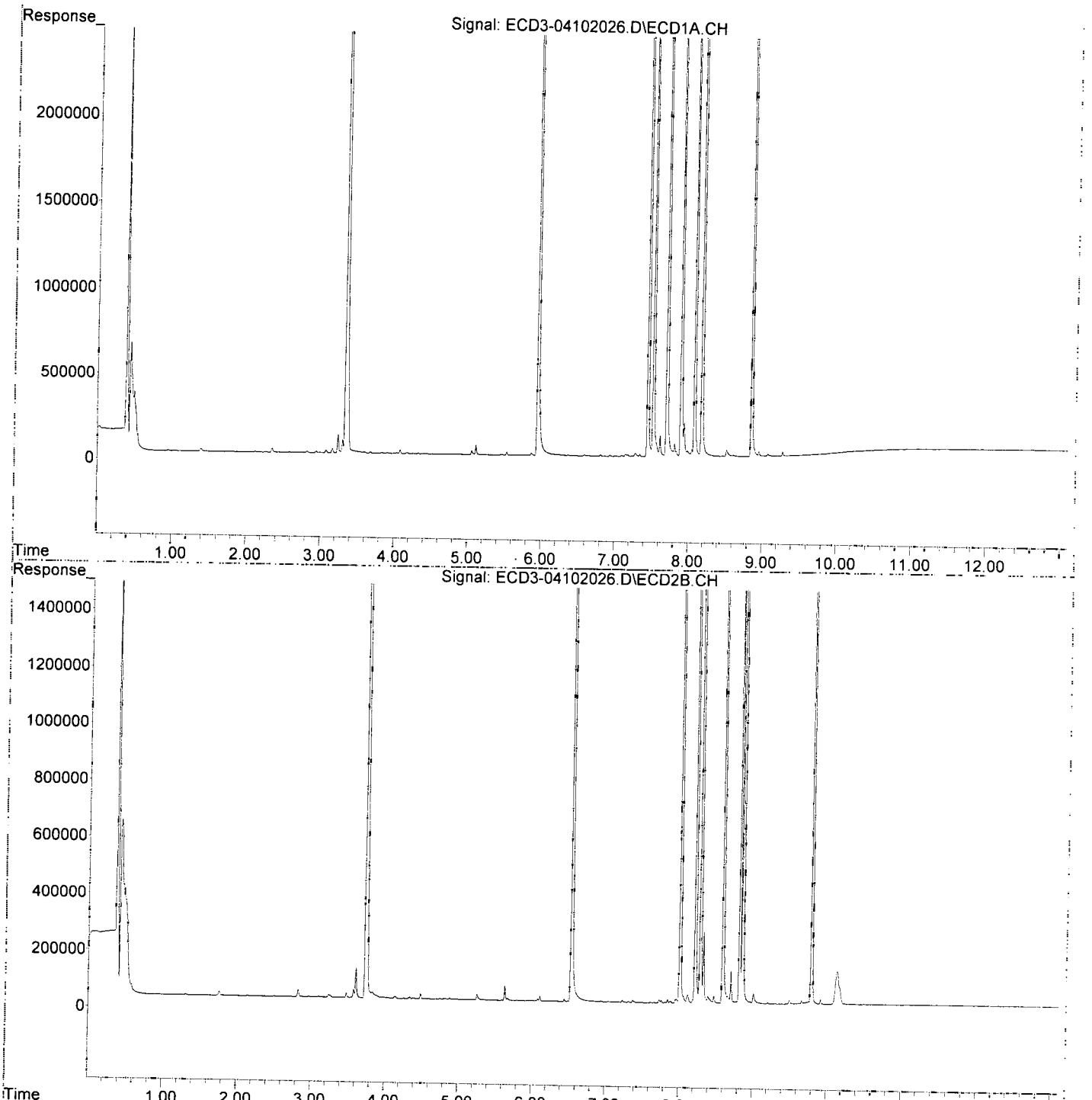
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.533f	6.081	18244	7201	0.123	1884.051	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.808	7.372	8368	5507	0.051	0.049	
6)	d-BHC	6.588f	0.000	6118	0	0.044	N.D.	#
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.520	0.000	4731787	0	30.258	N.D.	#
9)	trans-Chl...	7.615	8.215	121428	3917092	0.772	32.479	#
10)	cis-Chlor...	7.703	8.331	7516340	247386	47.884	2.136	#
11)	Endosulfa...	7.814	8.393	70195	22193	0.489	0.206	#
12)	4,4'-DDE	7.792	8.412f	29915	14013	0.207	0.122	#
13)	Dieldrin	7.987	8.591	26461	3254721	0.165	27.181	#
14)	Endrin	8.179f	8.817	7957377	3109923	64.504	35.974	#
15)	4,4'-DDD	8.179f	8.856	7957377	5989948	65.544	63.476	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.615	9.204	6444	3795	BelowCal	3407.161	
19)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.077f	9.789	8254	3386713	0.057	35.398	#
23)	Hexachlor...	3.341	3.736	7896264	7193299	46.411	46.022	
24)	Hexachlor...	5.947	6.532	6933401	5654398	51.222	52.898	
25)	Oxychlordane	7.446	8.010	6653870	5073538	50.989	52.022	
26)	2,4'-DDE	7.520	8.215	4731787	3917092	51.461	51.641	
27)	trans-Non...	7.703	8.286	7516340	5542427	52.049	51.344	
28)	2,4'-DDD	7.896	8.591	4125234	3254721	50.269	49.355	
29)	2,4'-DDT	8.081	8.817	4439544	3109923	58.974	57.978	
30)	cis-Nonac...	8.179	8.856	7957377	5989948	51.366	52.327	
31)	Mirex	8.856	9.789	4980238	3386713	50.296	50.297	
32)	Chlordane...	7.615	8.215	121428	3917092	6.880	270.756	#
33)	Chlordane...	7.703	8.331	7516340	247386	362.722	20.013	#
34)	Chlordane...	0.000	9.009	0	30817	N.D.	4.228	#
35)	Chlordane...	3.836	0.000	4864	0	NoCal	N.D.	
36)	Toxaphene...	7.703	8.591f	7516340	3254721	9029.555	2906.049	#
37)	Toxaphene...	7.987	0.000	26461	0	17.560	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.522	9.009	34833	30817	6.408	BelowCal	#
40)	Toxaphene...	0.000	9.204	0	3795	N.D.	BelowCal	
41)	Toxaphene...	8.856	0.000	4980238	0	1641.779	N.D.	#
42)	Toxaphene...	3.836	0.000	4864	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:23
Operator : MJB
Sample : 0D10031-ICV2
Misc : A20C360, 9-42 50 ppb
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:40
Operator : MJB
Sample : 0D10031-IBL3
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/12/20

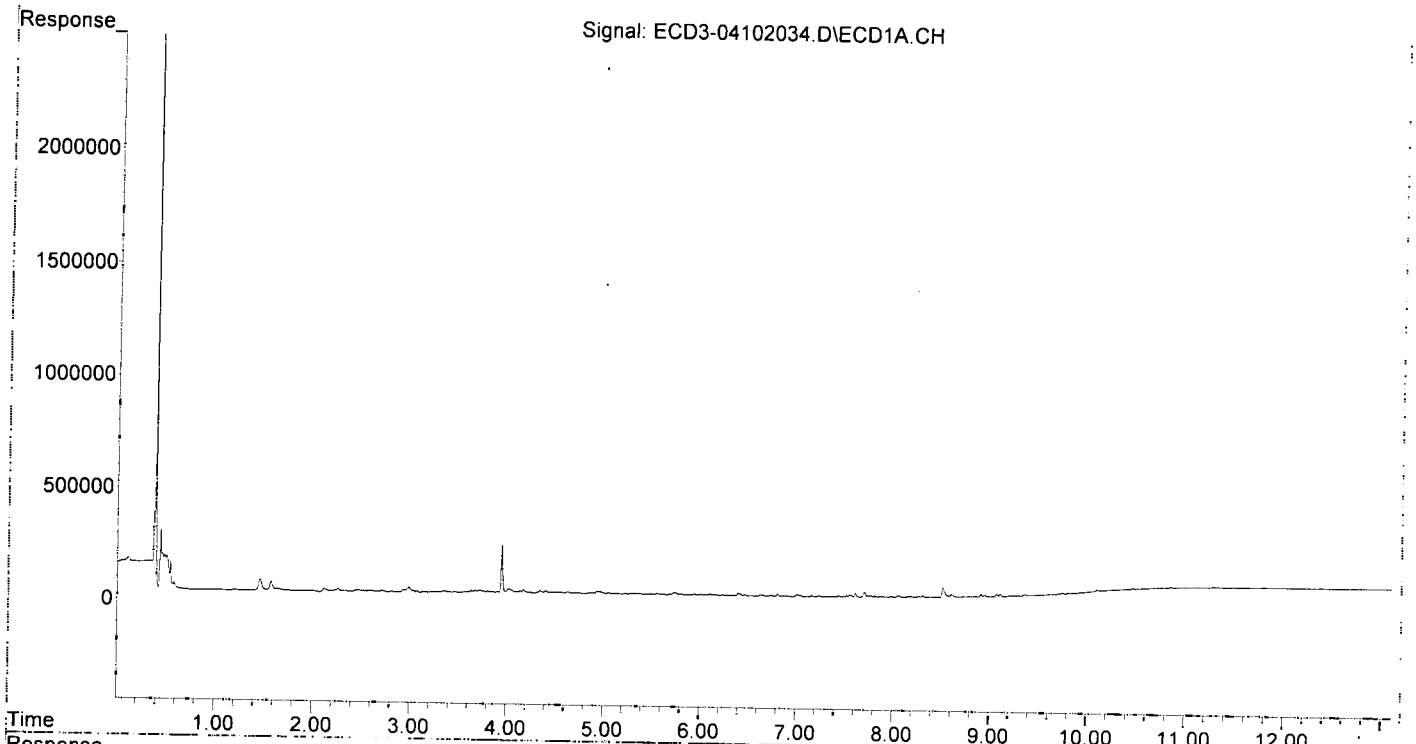
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	0.000	0	0	N.D.	N.D.	
22)	S DCBP (S)	9.804	0.000	3738	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	6.103	6.669	6577	4074	0.033	0.026	
3)	g-BHC	6.397	6.990	9407	3702	0.054	0.027	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.804	7.367	10109	10150	0.062	0.090	#
6)	d-BHC	6.625	7.315	6011	6673	0.043	0.055	
7)	Aldrin	0.000	7.635	0	3424	N.D.	0.026	#
8)	Heptachlo...	7.517	8.078	7017	3816	0.045	0.032	
9)	trans-Chl...	7.612	8.218	18492	18128	0.118	0.150	
10)	cis-Chlor...	7.707	8.327	22288	17339	0.142	0.150	
11)	Endosulfa...	7.811	8.379	5041	3776	0.035	0.035	
12)	4,4'-DDE	7.770	0.000	6165	0	0.043	N.D.	#
13)	Dieldrin	0.000	8.582	0	5343	N.D.	0.045	#
14)	Endrin	8.175f	8.811	6079	4003	0.049	0.046	
15)	4,4'-DDD	8.175f	8.854	6079	7559	0.050	0.080	#
16)	Endosulfa...	8.312	8.960	8281	7057	0.068	0.077	
17)	4,4'-DDT	0.000	9.080	0	3933	N.D.	0.143	#
18)	Endrin Al...	8.605	9.198	13383	10273	BelowCal	~~3407.080~~	
19)	Endosulfa...	8.909	9.390	12368	9400	0.103	0.112	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.107	9.793	11488	9390	0.080	0.098	
23)	Hexachlor...	3.350	3.749	6438	8269	2108.665	~~830.027~~	#
24)	Hexachlor...	5.943	6.529	4412	3003	BelowCal	~~2197.601~~	
25)	Oxychlordane	7.438	0.000	5998	0	BelowCal	N.D.	
26)	2,4'-DDE	7.517	8.218	7017	18128	BelowCal	0.003	
27)	trans-Non...	7.707	8.282	22288	13884	BelowCal	~~1953.437~~	
28)	2,4'-DDD	0.000	8.582	0	5343	N.D.	~~3167.807~~	#
29)	2,4'-DDT	8.053f	8.811	6450	4003	0.086	0.075	
30)	cis-Nonac...	8.175	8.854	6079	7559	BelowCal	~~2549.495~~	
31)	Mirex	0.000	9.793	0	9390	N.D.	~~3567.390~~	#
32)	Chlordane...	7.612	8.218	18492	18128	1.048	1.253	
33)	Chlordane...	7.707	8.327	22288	17339	1.076	1.403	
34)	Chlordane...	8.263	9.005	5293	33720	0.995	5.035	#
35)	Chlordane...	0.000	3.824f	0	10786	N.D.	NoCal	
36)	Toxaphene...	7.707f	8.582f	22288	5343	26.775	4.770	#
37)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)	Toxaphene...	8.312	8.960	8281	7057	2.662	3.251	
39)	Toxaphene...	8.516f	9.005	41614	33720	8.831	0.737	#
40)	Toxaphene...	0.000	9.198	0	10273	N.D.	2.410	#
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	0.000	3.824f	0	10786	N.D.	NoCal	

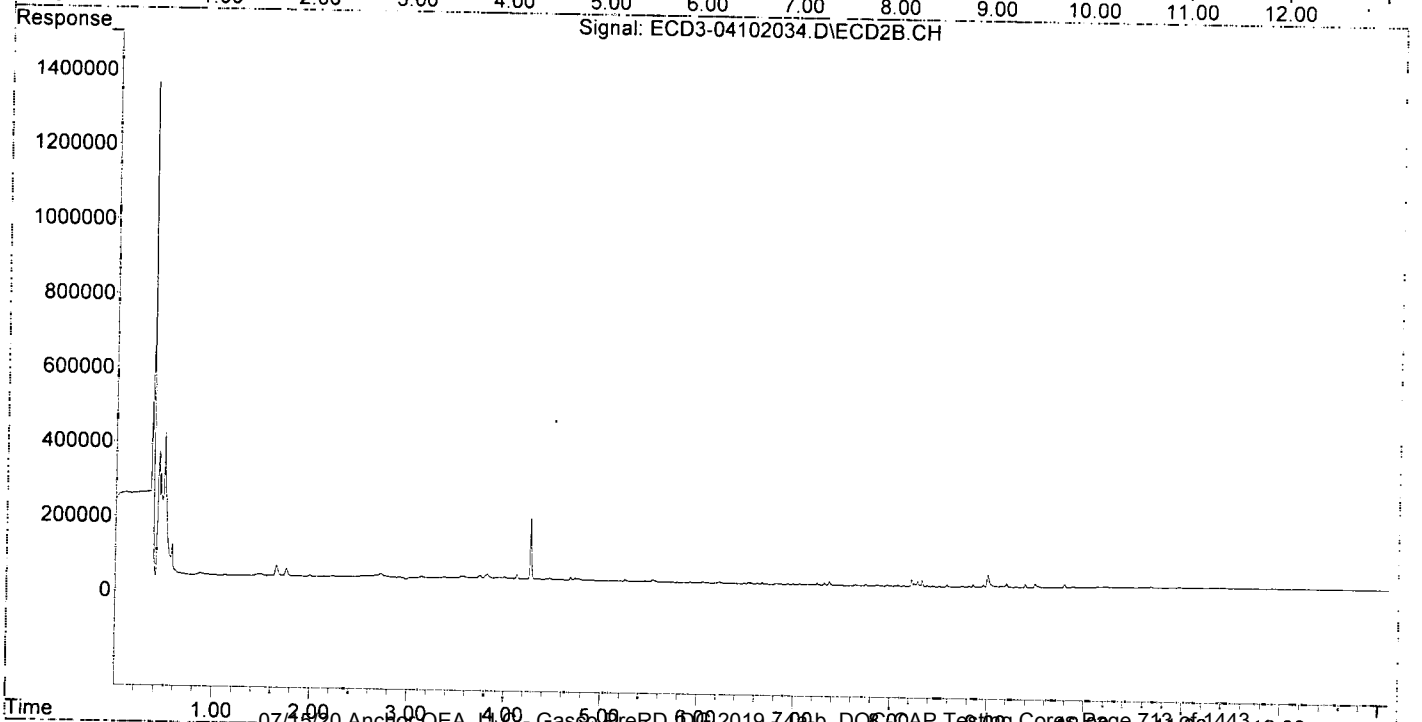
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:40
Operator : MJB
Sample : 0D10031-IBL3
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:57
Operator : MJB
Sample : 0D10031-ICV3
Misc : A19K312, CHLOR 500 ppb
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:52 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.070	0	14344	N.D.	1883.988	#
22)	S DCBP (S)	9.814	0.000	15678	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	6.092	6.696f	6776	162316	0.033	1.034	#
3)	g-BHC	6.405	6.998	17847	91391	0.103	0.678	#
4)	b-BHC	6.492f	7.049	117626	27631	1.724	0.450	#
5)	Heptachlor	6.803	7.367	4581465	3270284	27.979	28.889	
6)	d-BHC	6.609	7.299	73044	31910	0.520	0.261	#
7)	Aldrin	7.053	7.643	69620	52269	0.415	0.393	
8)	Heptachlo...	7.522	8.097	712478	212519	4.556	1.806	#
9)	trans-Chl...	7.612	8.218	9630684	7867683	61.202	65.236	
10)	cis-Chlor...	7.706	8.327	10999153	6304783	70.072	54.433	
11)	Endosulfa...	7.826	8.399	266238	117356	1.855	1.091	#
12)	4,4'-DDE	7.765	8.450	307977	208140	2.135	1.808	
13)	Dieldrin	7.996	8.581	334534	532579	2.082	4.448	#
14)	Endrin	8.137	8.806	176342	173697	1.429	2.009	#
15)	4,4'-DDD	8.175f	8.854	1747460	1287037	14.394	13.639	
16)	Endosulfa...	8.311	8.970	208649	151286	1.724	1.649	
17)	4,4'-DDT	8.438f	9.092	528994	60376	6.171	1.174	#
18)	Endrin Al...	8.626f	9.229f	65548	366027	0.413	4.321	#
19)	Endosulfa...	8.912	9.419f	123071	41408	1.022	0.492	#
20)	Methoxychlor	8.725	9.566	60407	11615	1.509	0.495	#
21)	Endrin Ke...	9.096	9.794	18705	72246	0.130	0.755	#
23)	Hexachlor...	3.361f	0.000	5671	0	2108.669	N.D.	#
24)	Hexachlor...	5.933	6.504f	8444	18698	BelowCal	2197.457	
25)	Oxychlordane	7.435	8.020	114190	127474	0.683	1.073	#
26)	2,4'-DDE	7.522	8.218	712478	7867683	7.699	106.774	#
27)	trans-Non...	7.706	8.283	10999153	5939785	76.070	55.152	
28)	2,4'-DDD	7.863f	8.581	787639	532579	9.455	7.726	
29)	2,4'-DDT	8.106f	8.806	269279	173697	3.577	3.238	
30)	cis-Nonac...	8.175	8.854	1747460	1287037	11.192	10.874	
31)	Mirex	8.840	9.794	20621	72246	7125.676	0.653	# A
32)	Chlordane...	7.612	8.218	9630684	7867683	545.633	543.828	
33)	Chlordane...	7.706	8.327	10999153	6304783	530.795	510.039	542.35
34)	Chlordane...	8.263	8.996	2929630	2073139	550.608	571.407	
35)	Chlordane...	0.000	3.828f	0	4511	N.D.	NoCal	
36)	Toxaphene...	7.706f	8.581f	10999153	532579	13213.540	475.525	#
37)	Toxaphene...	7.996	8.911	334534	215476	222.011	157.966	
38)	Toxaphene...	8.311	8.947	208649	176996	67.082	81.552	
39)	Toxaphene...	8.543	8.996	136735	2073139	42.768	639.229	#
40)	Toxaphene...	8.753	9.168	63337	46525	26.893	22.442	
41)	Toxaphene...	8.840	9.566	20621	11615	6.798	5.739	
42)	Toxaphene...	0.000	3.828f	0	4511	N.D.	NoCal	

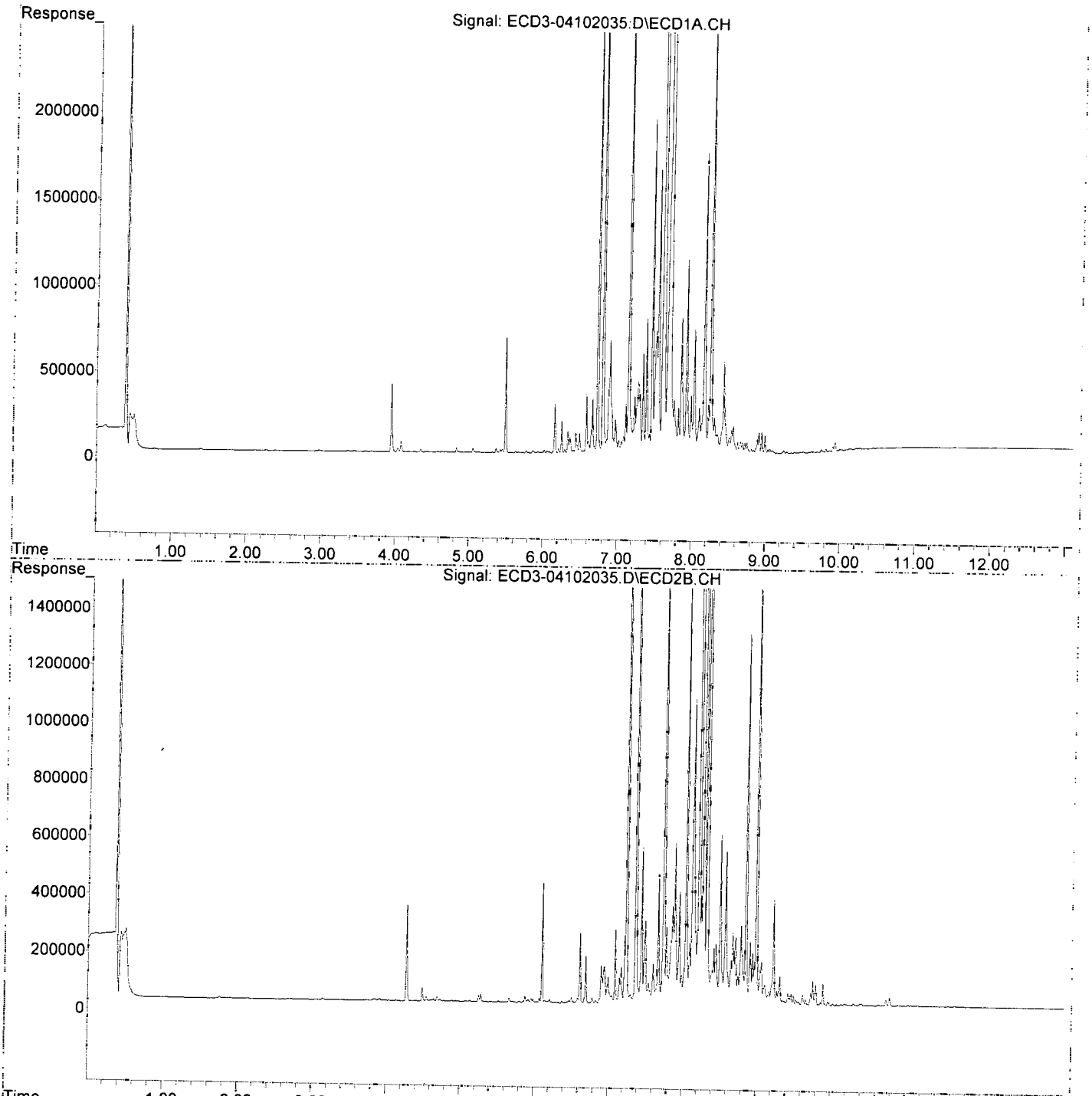
B — 541.76

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:57
Operator : MJB
Sample : 0D10031-ICV3
Misc : A19K312, CHLOR 500 ppb
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:52 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 23:13
Operator : MJB
Sample : 0D10031-IBL4
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

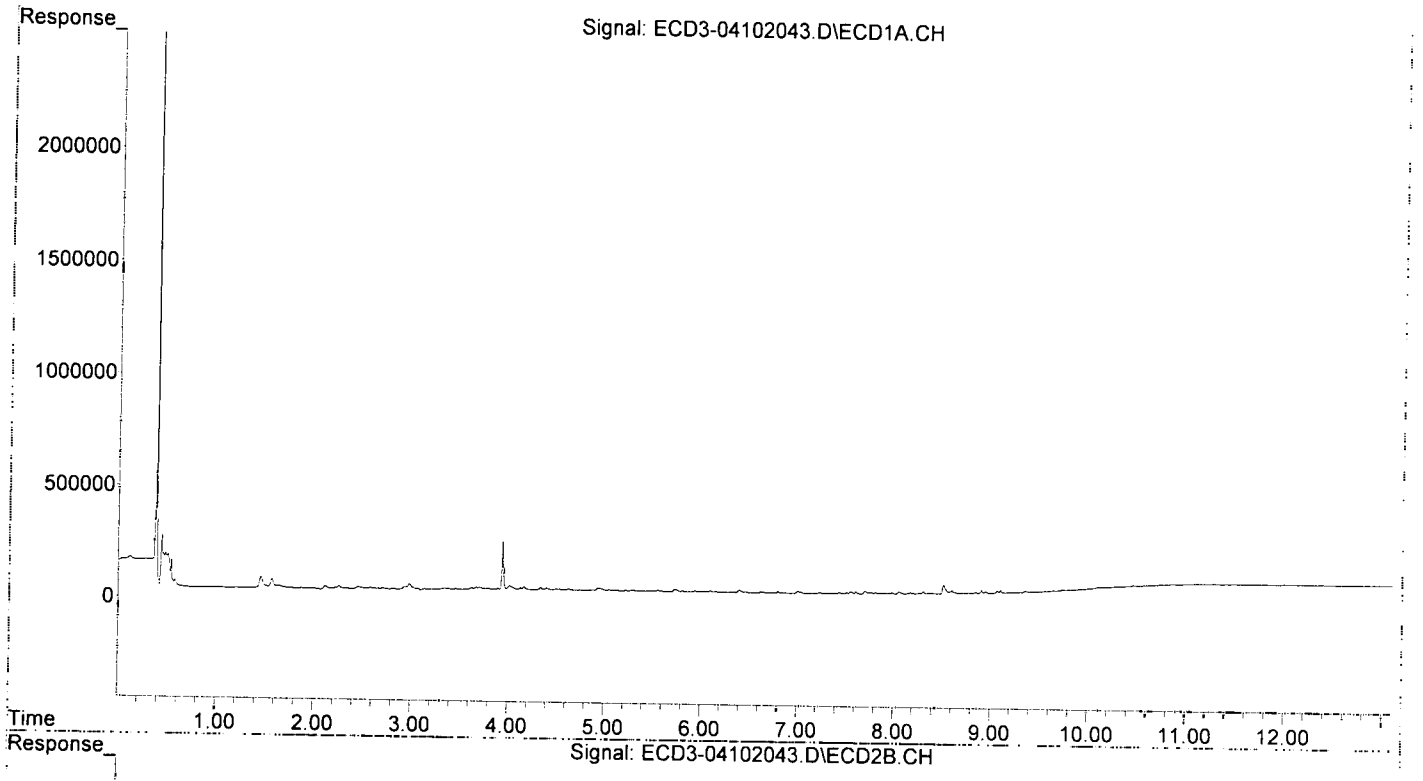
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.557	6.057	5422	3396	0.037	~~1884.084~~	#
22)	S DCBP (S)	9.802	0.000	3539	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	6.101	6.668	6919	4023	0.034	0.026	
3)	g-BHC	6.397	6.989	8499	3669	0.049	0.027	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.802	7.366	6636	7495	0.041	0.066	#
6)	d-BHC	6.624	7.313	3511	6266	0.025	0.051	#
7)	Aldrin	0.000	7.634	0	3281	N.D.	0.025	#
8)	Heptachlo...	7.515	8.077	6673	3934	0.043	0.033	
9)	trans-Chl...	7.610	8.217	10178	9909	0.065	0.082	
10)	cis-Chlor...	7.706	8.325	12570	9945	0.080	0.086	
11)	Endosulfa...	7.810	8.378	6170	3559	0.043	0.033	
12)	4,4'-DDE	7.769	0.000	6577	0	0.046	N.D.	#
13)	Dieldrin	7.982	8.581	6698	5025	0.042	0.042	
14)	Endrin	8.174	8.809	5309	4637	0.043	0.054	
15)	4,4'-DDD	8.174f	8.852	5309	6071	0.044	0.064	#
16)	Endosulfa...	8.309	8.959	9230	6477	0.076	0.071	
17)	4,4'-DDT	0.000	9.079	0	3742	N.D.	0.139	#
18)	Endrin Al...	8.603	9.197	12901	10746	BelowCal	~~3407.074~~	
19)	Endosulfa...	8.908	9.389	12299	8997	0.102	0.107	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.105	9.791	11553	9511	0.080	0.099	
23)	Hexachlor...	0.000	3.747	0	7719	N.D.	~~838.030~~	#
24)	Hexachlor...	5.941	6.527	4399	3193	BelowCal	~~2197.599~~	
25)	Oxychlordane	7.437	0.000	6516	0	BelowCal	N.D.	
26)	2,4'-DDE	7.515	8.217	6673	9909	BelowCal	~~2144.855~~	
27)	trans-Non...	7.706	8.280	12570	7484	BelowCal	~~1953.495~~	
28)	2,4'-DDD	0.000	8.581	0	5025	N.D.	~~3167.811~~	#
29)	2,4'-DDT	8.052f	8.809	7382	4637	0.098	0.086	
30)	cis-Nonac...	8.174	8.852	5309	6071	BelowCal	~~2549.507~~	
31)	Mirex	8.847	9.791	4198	9511	~~7125.842~~	~~3567.388~~	#
32)	Chlordane...	7.610	8.217	10178	9909	0.577	0.685	
33)	Chlordane...	7.706	8.325	12570	9945	0.607	0.805	
34)	Chlordane...	0.000	9.005	0	33185	N.D.	4.887	#
35)	Chlordane...	0.000	3.822f	0	10371	N.D.	NoCal	
36)	Toxaphene...	7.706f	8.581f	12570	5025	15.101	4.487	#
37)	Toxaphene...	7.982	0.000	6698	0	4.445	N.D.	#
38)	Toxaphene...	8.309	8.959	9230	6477	2.967	2.984	
39)	Toxaphene...	8.516f	9.005	39923	33185	8.227	0.565	#
40)	Toxaphene...	0.000	9.197	0	10746	N.D.	2.672	#
41)	Toxaphene...	8.847	0.000	4198	0	1.384	N.D.	#
42)	Toxaphene...	0.000	3.822f	0	10371	N.D.	NoCal	

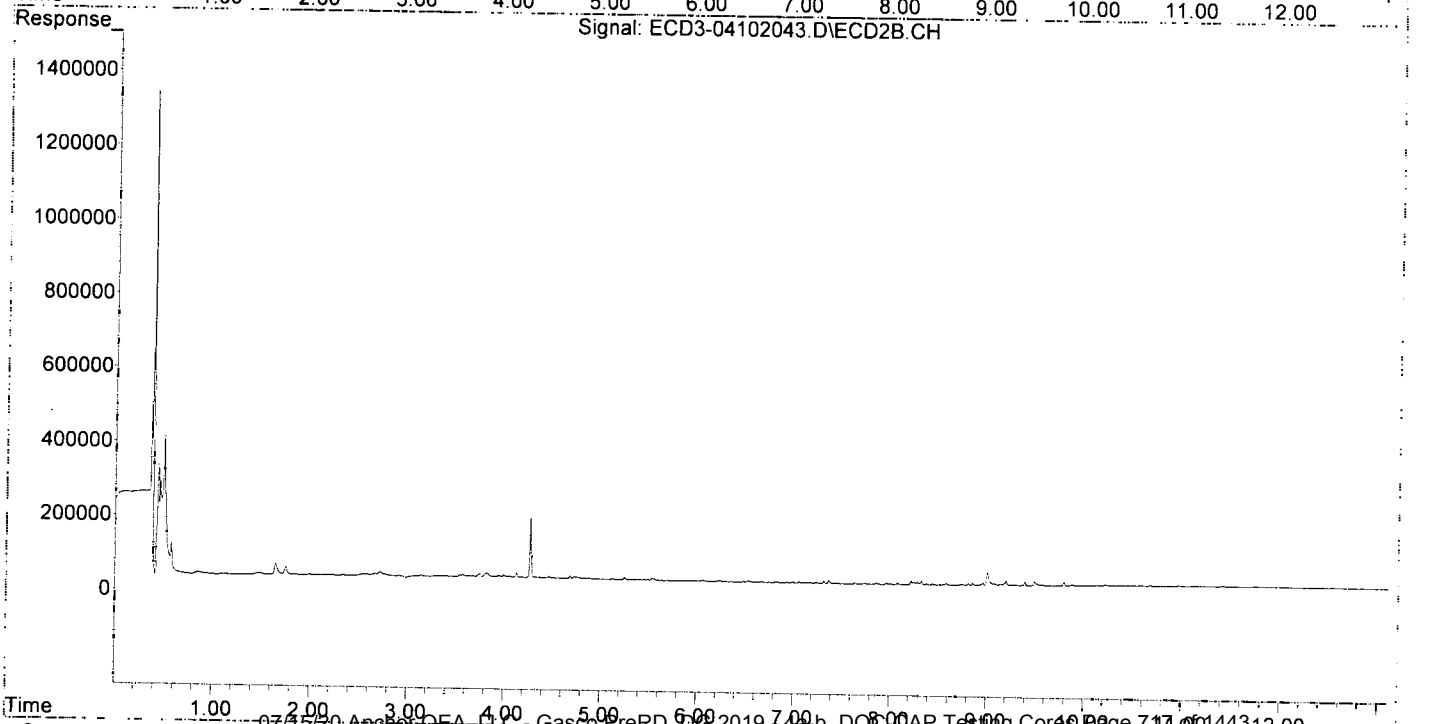
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 23:13
Operator : MJB
Sample : 0D10031-IBL4
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 23:30
Operator : MJB
Sample : 0D10031-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:38:00 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.067	0	12686	N.D.	1884.002	#
22)	S DCBP (S)	9.797	10.651f	32572	22426	0.071	0.089	
	Target Compounds							
2)	a-BHC	6.095	6.670	5011	6638	0.025	0.042	#
3)	g-BHC	6.397	6.974	7944	12099	0.046	0.090	#
4)	b-BHC	6.458	7.039	16411	18340	0.241	0.299	
5)	Heptachlor	6.804	7.367	26012	28764	0.159	0.254	#
6)	d-BHC	6.638	7.309	16214	26494	0.116	0.217	#
7)	Aldrin	7.044	7.662f	57262	63748	0.342	0.480	#
8)	Heptachlo...	7.517	8.069	155890	198330	0.997	1.685	#
9)	trans-Chl...	7.628	8.198f	317293	218076	2.016	1.808	
10)	cis-Chlor...	7.735f	8.351	351246	231175	2.238	1.996	
11)	Endosulfa...	7.813	8.382	520398	277328	3.626	2.579	
12)	4,4'-DDE	7.735f	8.448	351246	337739	2.435	2.933	
13)	Dieldrin	7.982	8.596	751689	338844	4.677	2.830	
14)	Endrin	8.173	8.803	1085084	590357	8.796	6.829	
15)	4,4'-DDD	8.212	8.855	737102	415783	6.071	4.406	
16)	Endosulfa...	8.298	8.942f	1657841	1121069	13.695	12.223	
17)	4,4'-DDT	8.380	9.073	1471030	438558	16.577	7.969	#
18)	Endrin Al...	8.588	9.188	1115545	1006060	10.623	12.328	
19)	Endosulfa...	8.910	9.390	616228	420916	5.116	5.000	
20)	Methoxychlor	8.740	9.572	566076	1062498	13.478	38.051	#
21)	Endrin Ke...	9.097	9.815	424511	216557	2.947	2.263	
23)	Hexachlor...	3.335	3.730	5034	5437	2108.673	838.044	#
24)	Hexachlor...	0.000	6.526	0	4077	N.D.	2197.591	#
25)	Oxychlordane	7.443	8.019	342635	184254	2.448	1.648	
26)	2,4'-DDE	7.517	8.198	155890	218076	1.545	2.591	#
27)	trans-Non...	7.684	8.292	414776	224827	2.690	1.819	
28)	2,4'-DDD	7.900	8.596	581540	338844	6.926	4.805	
29)	2,4'-DDT	8.088	8.825	932013	336018	12.381	6.264	#
30)	cis-Nonac...	8.173	8.855	1085084	415783	6.874	3.343	#
31)	Mirex	8.840	9.815f	1623067	216557	16.063	2.785	#
32)	Chlordane...	7.628	8.198f	317293	218076	17.976	15.074	
33)	Chlordane...	7.684f	8.351f	414776	231175	20.016	18.701	
34)	Chlordane...	8.238f	9.010	717963	1803266	134.937	496.518	#
35)	Chlordane...	0.000	3.828f	0	3988	N.D.	NoCal	
36)	Toxaphene...	7.684	8.557	414776	574937	498.280	513.345	
37)	Toxaphene...	7.982	8.906	751689	722451	498.853	529.631	
38)	Toxaphene...	8.298	8.942	1657841	1121069	533.005	516.540	
39)	Toxaphene...	8.540	9.010	1556043	1803266	535.746	556.379	
40)	Toxaphene...	8.772	9.188	1286347	1006060	546.190	545.230	
41)	Toxaphene...	8.840	9.572	1623067	1062498	535.058	524.951	
42)	Toxaphene...	0.000	3.828f	0	3988	N.D.	NoCal	

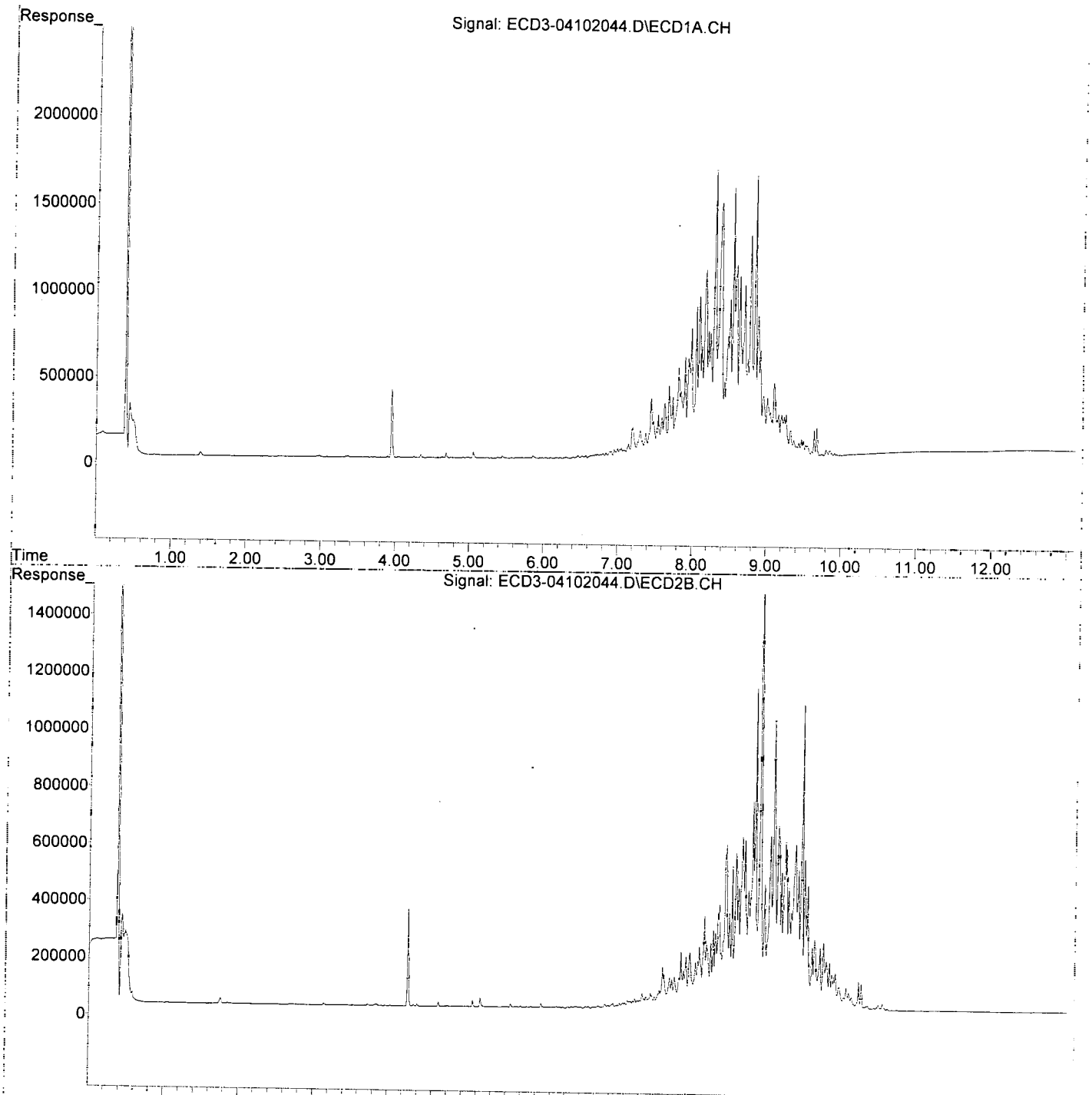
A B
524.52 531.01

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 23:30
Operator : MJB
Sample : 0D10031-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:38:00 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

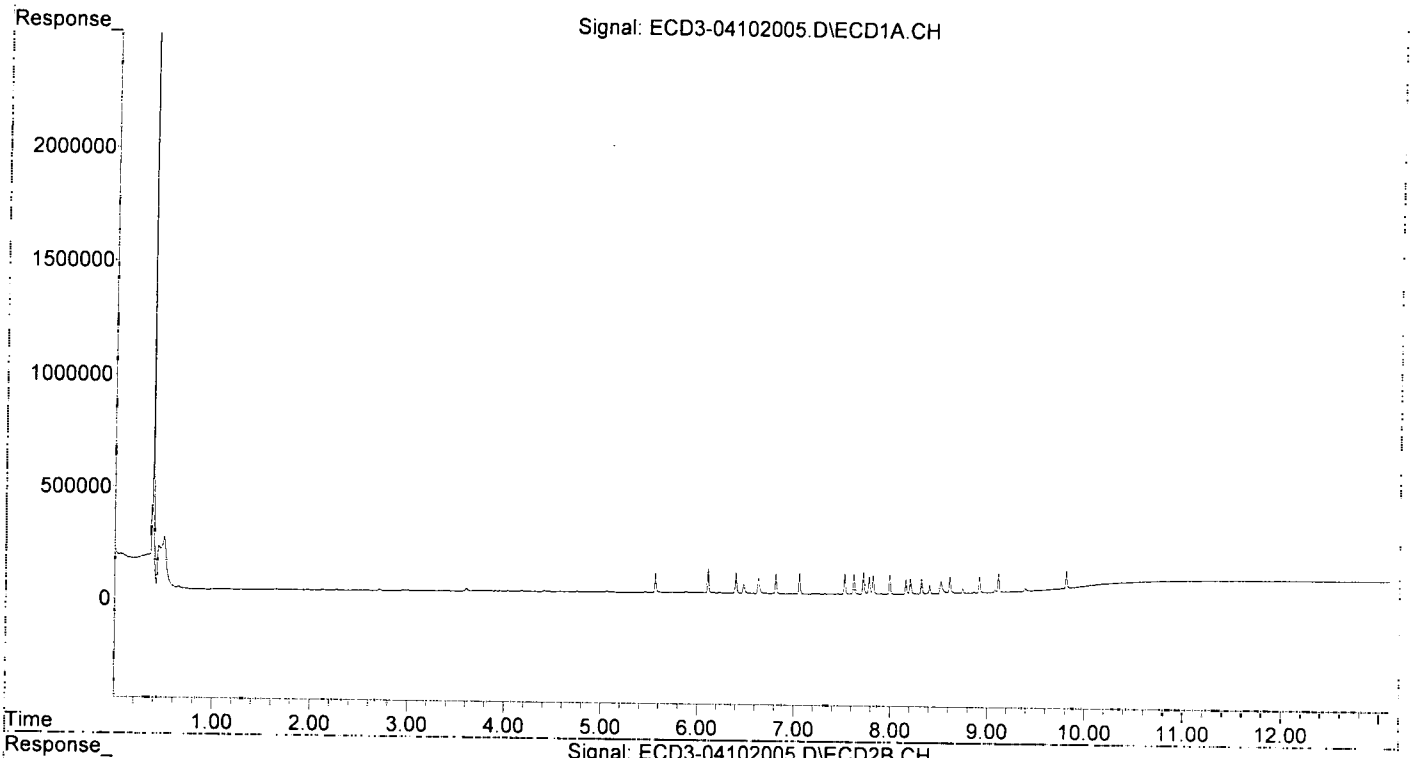
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.561	6.060	85749	73007	0.579	0.504	
22) S	DCBP (S)	9.806	10.678	78745	50449	0.493	0.505	
	Target Compounds							
2)	a-BHC	6.107	6.672	106090	87452	0.524	0.557	
3)	g-BHC	6.394	6.993	91195	75918	0.528	0.564	
4)	b-BHC	6.474	7.059	37211	37170	0.545	0.605	
5)	Heptachlor	6.809	7.371	88422	63633	0.540	0.562	
6)	d-BHC	6.628	7.317	66268	66365	0.472	0.543	
7)	Aldrin	7.054	7.640	92070	76126	0.549	0.573	
8)	Heptachlo...	7.520	8.081	91327	69830	0.584	0.593	
9)	trans-Chl...	7.617	8.222	87797	71156	0.558	0.590	
10)	cis-Chlor...	7.714	8.330	98925	70102	0.630	0.605	
11)	Endosulfa...	7.815	8.382	82435	65843	0.574	0.612	
12)	4,4'-DDE	7.774	8.437	76638	64334	0.531	0.559	
13)	Dieldrin	7.988	8.584	86632	68980	0.539	0.576	
14)	Endrin	8.155	8.813	63369	47079	0.514	0.545	
15)	4,4'-DDD	8.201	8.857	67675	58722	0.557	0.622	
16)	Endosulfa...	8.315	8.962	67076	55230	0.554	0.602	
17)	4,4'-DDT	8.399	9.084	37407	24779	0.528	0.524	
18)	Endrin Al...	8.608	9.201	73553	58732	0.491	0.490	
19)	Endosulfa...	8.913	9.392	72456	50159	0.601	0.596	
20)	Methoxychlor	8.738	9.568	19411	11909	0.512	0.506	
21)	Endrin Ke...	9.110	9.796	83435	57366	0.579	0.600	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.520	8.222	91327	71156	0.829	0.689	
27)	trans-Non...	7.714	0.000	98925	0	0.483	N.D.	#
28)	2,4'-DDD	0.000	8.584	0	68980	N.D.	0.746	#
29)	2,4'-DDT	0.000	8.813	0	47079	N.D.	0.878	#
30)	cis-Nonac...	8.201f	8.857	67675	58722	0.231	0.270	
31)	Mirex	0.000	9.796	0	57366	N.D.	0.433	#
32)	Chlordane...	7.617	8.222	87797	71156	4.974	4.918	
33)	Chlordane...	7.714	8.330	98925	70102	4.774	5.671	
34)	Chlordane...	0.000	9.004	0	43849	N.D.	7.851	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.714f	8.584f	98925	68980	118.841	61.590	#
37)	Toxaphene...	7.988	0.000	86632	0	57.493	N.D.	#
38)	Toxaphene...	8.315	8.962f	67076	55230	21.565	25.447	
39)	Toxaphene...	8.516f	9.004	52208	43849	12.617	3.981	#
40)	Toxaphene...	8.738f	9.201	19411	58732	8.242	29.183	#
41)	Toxaphene...	0.000	9.568	0	11909	N.D.	5.884	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

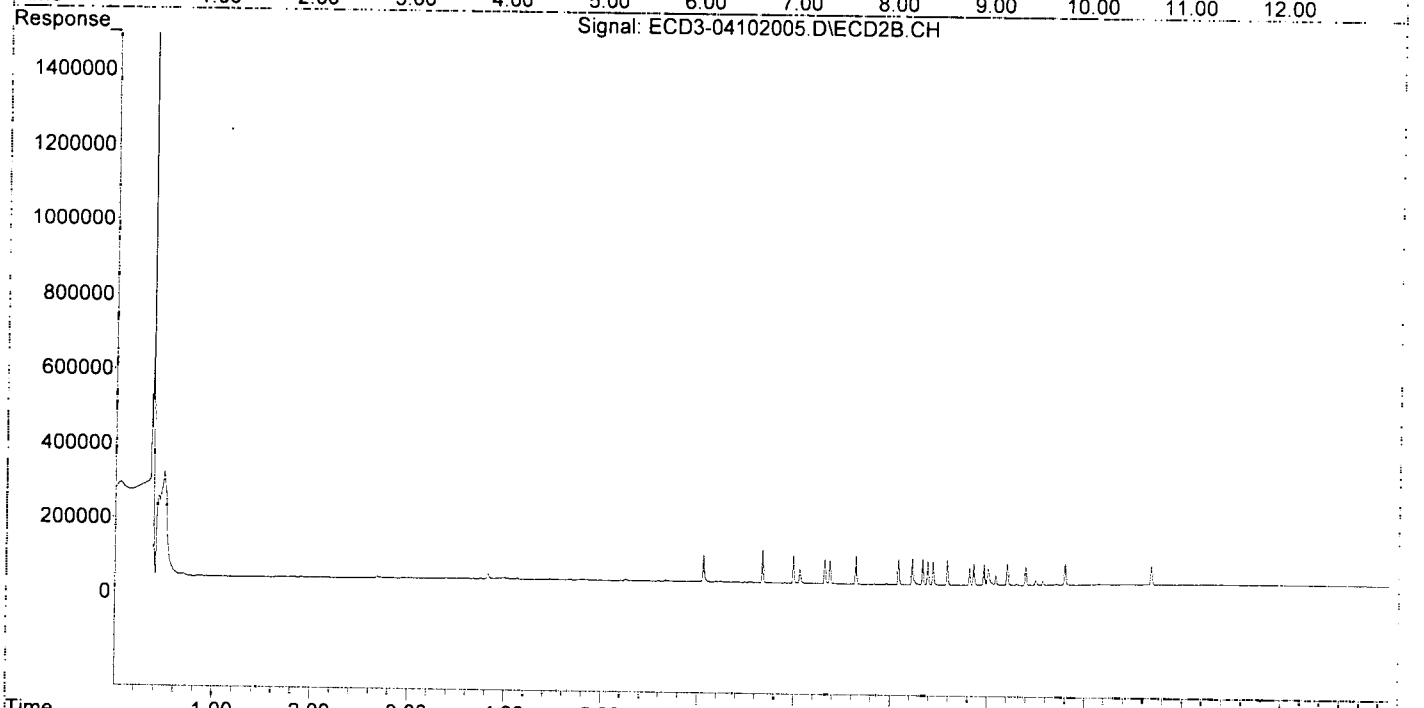
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:39
Operator : MJB
Sample : 0D10031-CAL2
Misc : A20D134, AB 1 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:07 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

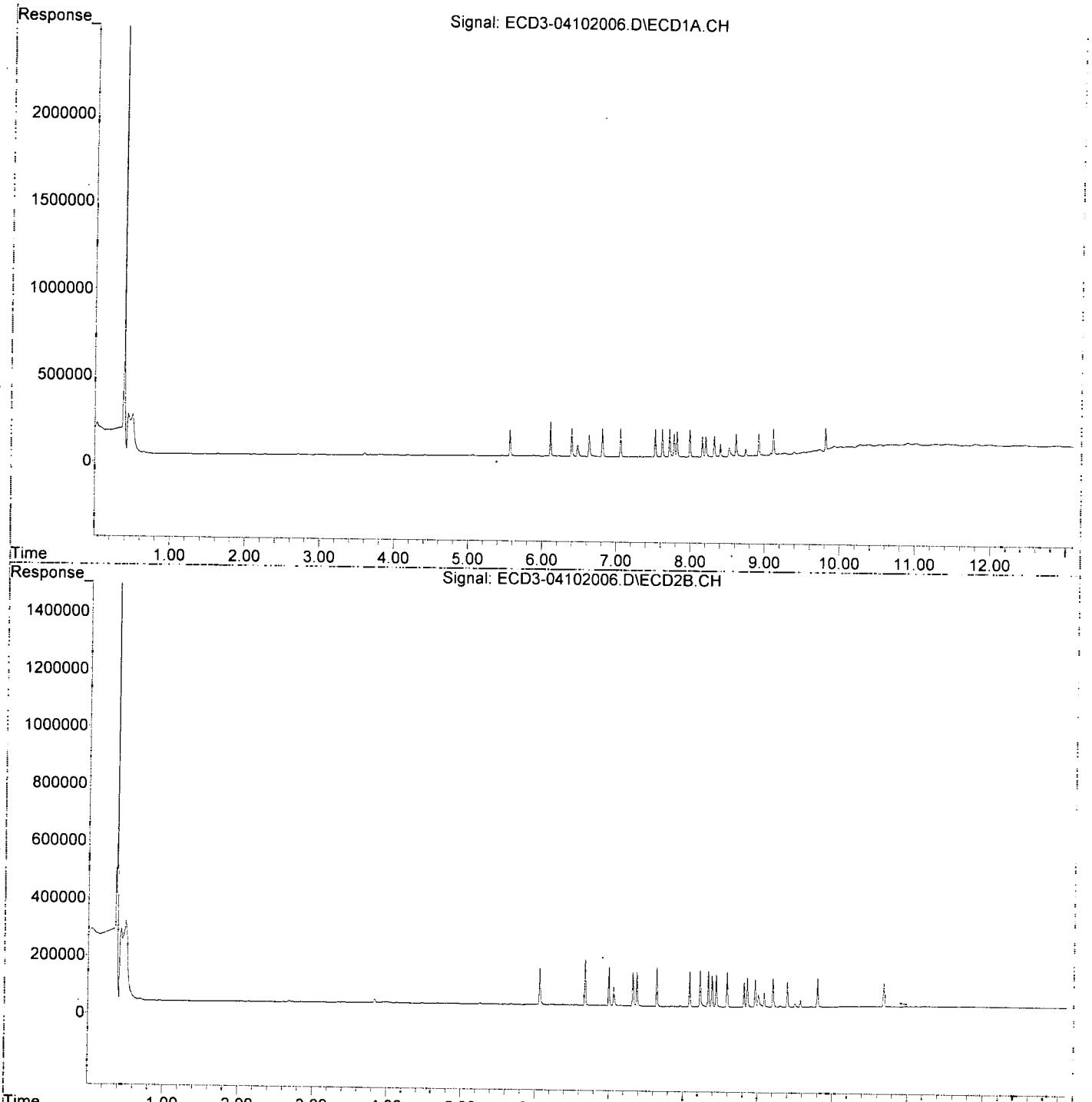
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.562	6.061	150599	127191	1.017	0.980	
22)	S DCBP (S)	9.808	10.679	135418	81619	1.011	0.967	
	Target Compounds							
2)	a-BHC	6.107	6.672	198771	160189	0.983	1.020	
3)	g-BHC	6.394	6.994	162951	137359	0.944	1.020	
4)	b-BHC	6.474	7.060	66101	66254	0.969	1.079	
5)	Heptachlor	6.809	7.371	162313	116127	0.991	1.026	
6)	d-BHC	6.628	7.317	123295	118368	0.878	0.968	
7)	Aldrin	7.054	7.640	165393	136778	0.987	1.029	
8)	Heptachlo...	7.521	8.082	160396	122009	1.026	1.037	
9)	trans-Chl...	7.617	8.223	160412	126502	1.019	1.049	
10)	cis-Chlor...	7.715	8.331	162363	124533	1.034	1.075	
11)	Endosulfa...	7.816	8.383	145356	110124	1.013	1.024	
12)	4,4'-DDE	7.775	8.438	132356	115967	0.918	1.007	
13)	Dieldrin	7.988	8.585	160736	120867	1.000	1.009	
14)	Endrin	8.156	8.815	118800	86799	0.963	1.004	
15)	4,4'-DDD	8.202	8.858	118335	101471	0.975	1.075	
16)	Endosulfa...	8.316	8.964	119697	95182	0.989	1.038	
17)	4,4'-DDT	8.400	9.085	73450	49721	0.947	0.980	
18)	Endrin Al...	8.609	9.203	127313	100085	1.014	1.005	
19)	Endosulfa...	8.913	9.393	126416	88344	1.049	1.049	
20)	Methoxychlor	8.739	9.568	39011	24923	0.989	1.010	
21)	Endrin Ke...	9.111	9.797	152949	100622	1.062	1.052	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.521	8.223	160396	126502	1.595	1.405	
27)	trans-Non...	7.715	0.000	162363	0	0.926	N.D.	#
28)	2,4'-DDD	0.000	8.585	0	120867	N.D.	1.525	#
29)	2,4'-DDT	0.000	8.815	0	86799	N.D.	1.618	#
30)	cis-Nonac...	8.202f	8.858	118335	101471	0.562	0.637	
31)	Mirex	0.000	9.797	0	100622	N.D.	1.072	#
32)	Chlordane...	7.617	8.223	160412	126502	9.088	8.744	
33)	Chlordane...	7.715	8.331	162363	124533	7.835	10.074	
34)	Chlordane...	0.000	9.006	0	41216	N.D.	7.119	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.715f	8.585f	162363	120867	195.050	107.918	#
37)	Toxaphene...	7.988	0.000	160736	0	106.671	N.D.	#
38)	Toxaphene...	8.316	8.964f	119697	95182	38.483	43.856	
39)	Toxaphene...	8.517f	9.006	48313	41216	11.225	3.138	#
40)	Toxaphene...	8.739f	9.203	39011	100085	16.564	52.000	#
41)	Toxaphene...	0.000	9.568	0	24923	N.D.	12.314	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:39
Operator : MJB
Sample : 0D10031-CAL2
Misc : A20D134, AB 1 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:07 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:56
Operator : MJB
Sample : 0D10031-CAL3
Misc : A20C179, AB 2 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:23 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

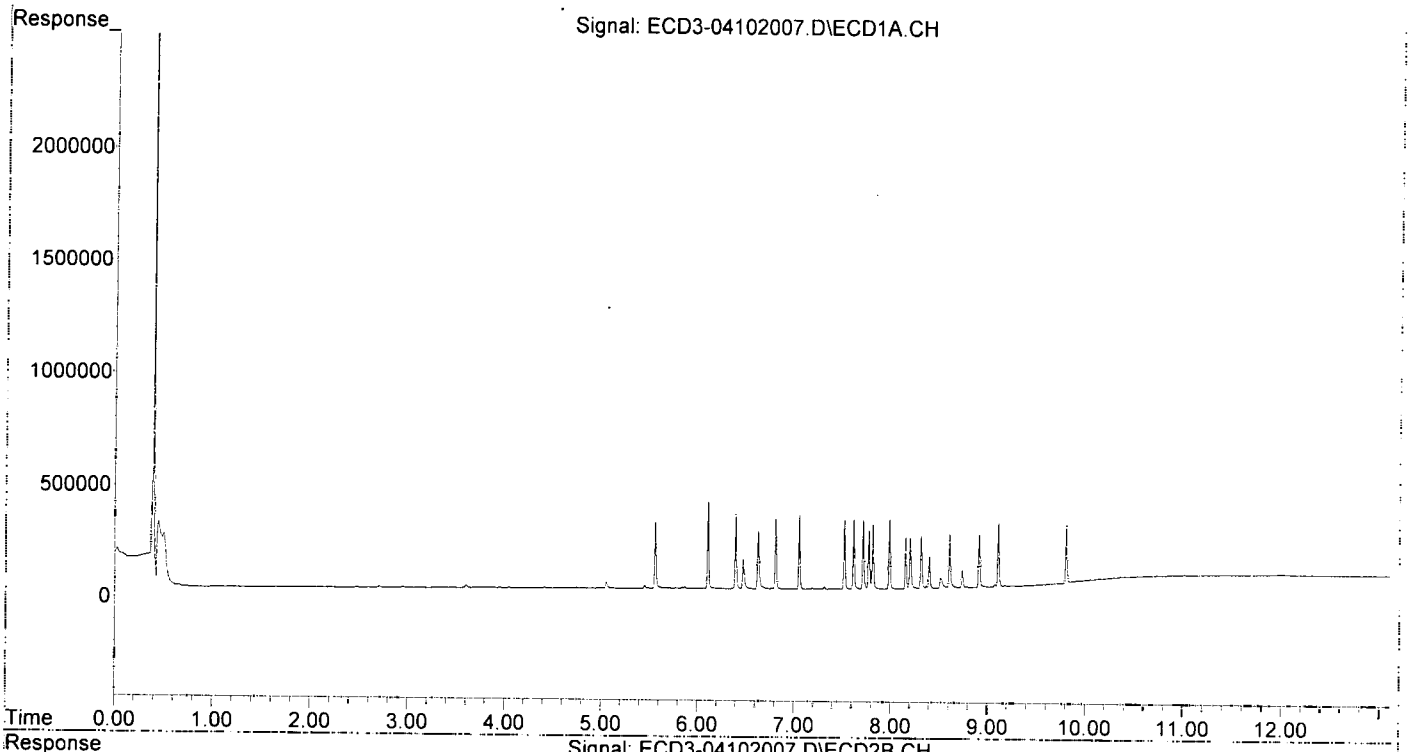
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.562	6.061	294629	242169	1.989	1.992	
22)	S	DCBP (S)	9.807	10.679	249594	153175	2.054	2.029	
		Target Compounds							
2)		a-BHC	6.107	6.673	386030	318129	1.908	2.027	
3)		g-BHC	6.395	6.994	330735	271046	1.915	2.012	
4)		b-BHC	6.473	7.059	133460	127912	1.956	2.083	
5)		Heptachlor	6.809	7.371	311735	223319	1.904	1.973	
6)		d-BHC	6.628	7.317	258031	234036	1.838	1.915	
7)		Aldrin	7.054	7.640	330949	268918	1.974	2.024	
8)		Heptachlo...	7.521	8.082	311852	241069	1.994	2.048	
9)		trans-Chl...	7.617	8.223	308851	240690	1.963	1.996	
10)		cis-Chlor...	7.714	8.331	309955	235252	1.975	2.031	
11)		Endosulfa...	7.815	8.382	284291	219822	1.981	2.044	
12)		4,4'-DDE	7.774	8.438	264579	230910	1.834	2.005	
13)		Dieldrin	7.988	8.585	311986	236771	1.941	1.977	
14)		Endrin	8.155	8.814	233183	167127	1.890	1.933	
15)		4,4'-DDD	8.201	8.857	229102	184447	1.887	1.955	
16)		Endosulfa...	8.315	8.963	233441	182611	1.928	1.991	
17)		4,4'-DDT	8.399	9.085	145442	89330	1.782	1.701	
18)		Endrin Al...	8.608	9.202	237806	191739	2.089	2.147	
19)		Endosulfa...	8.913	9.393	233112	166426	1.935	1.977	
20)		Methoxychlor	8.739	9.568	74306	46818	1.846	1.855	
21)		Endrin Ke...	9.110	9.797	285336	188983	1.981	1.975	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)		Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)		2,4'-DDE	7.521	8.223	311852	240690	3.272	2.884	
27)		trans-Non...	7.714	0.000	309955	0	1.958	N.D.	#
28)		2,4'-DDD	0.000	8.585	0	236771	N.D.	3.269	#
29)		2,4'-DDT	0.000	8.814	0	167127	N.D.	3.116	#
30)		cis-Nonac...	8.201f	8.857	229102	184447	1.286	1.351	
31)		Mirex	0.000	9.797	0	188983	N.D.	2.378	#
32)		Chlordane...	7.617	8.223	308851	240690	17.498	16.637	
33)		Chlordane...	7.714	8.331	309955	235252	14.958	19.031	
34)		Chlordane...	0.000	9.006	0	41993	N.D.	7.335	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.714f	8.585f	309955	236771	372.356	211.406	#
37)		Toxaphene...	7.988	0.000	311986	0	207.047	N.D.	#
38)		Toxaphene...	8.315	8.963f	233441	182611	75.052	84.139	
39)		Toxaphene...	8.517f	9.006	46637	41993	10.627	3.387	#
40)		Toxaphene...	8.739f	9.202	74306	191739	31.551	102.474	#
41)		Toxaphene...	0.000	9.568	0	46818	N.D.	23.132	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

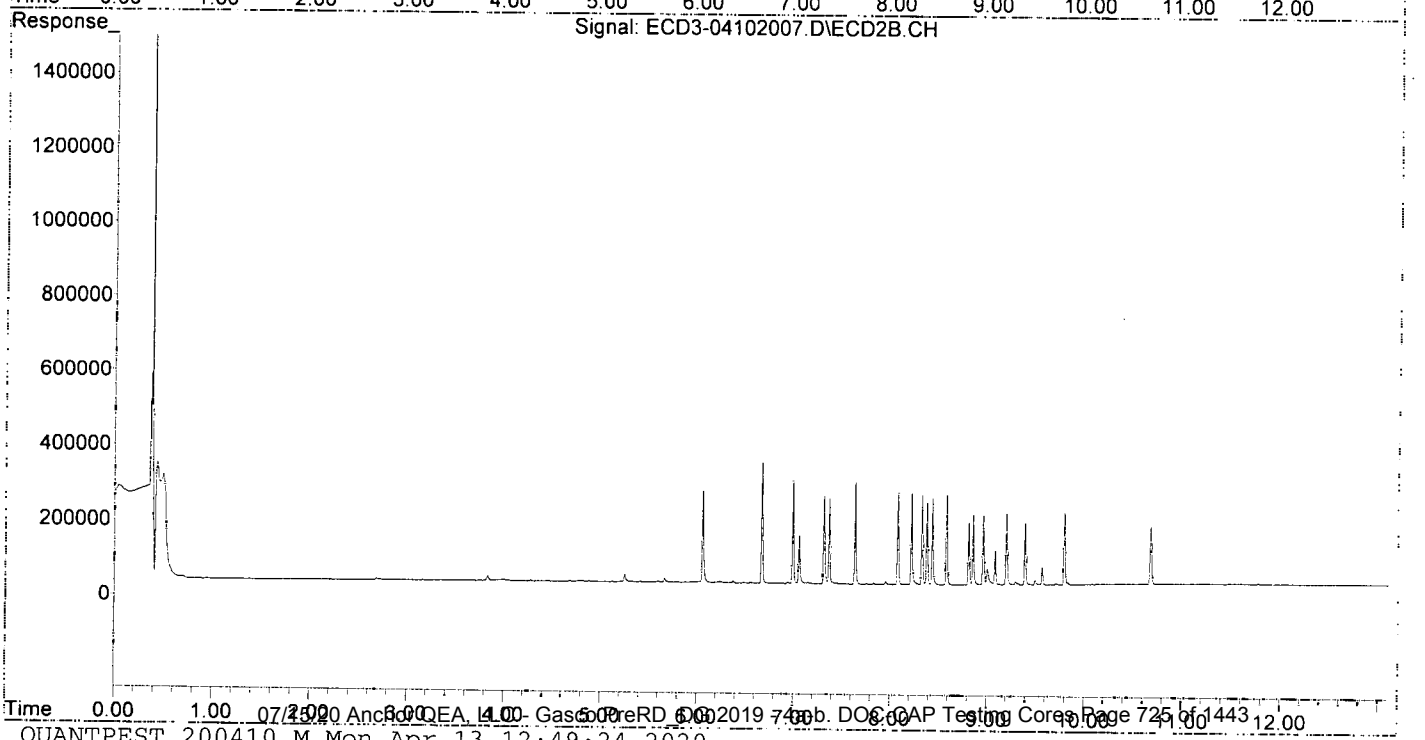
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:56
Operator : MJB
Sample : 0D10031-CAL3
Misc : A20C179, AB 2 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:23 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:14
Operator : MJB
Sample : 0D10031-CAL4
Misc : A20C180, AB 5 ppb
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:46 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20.

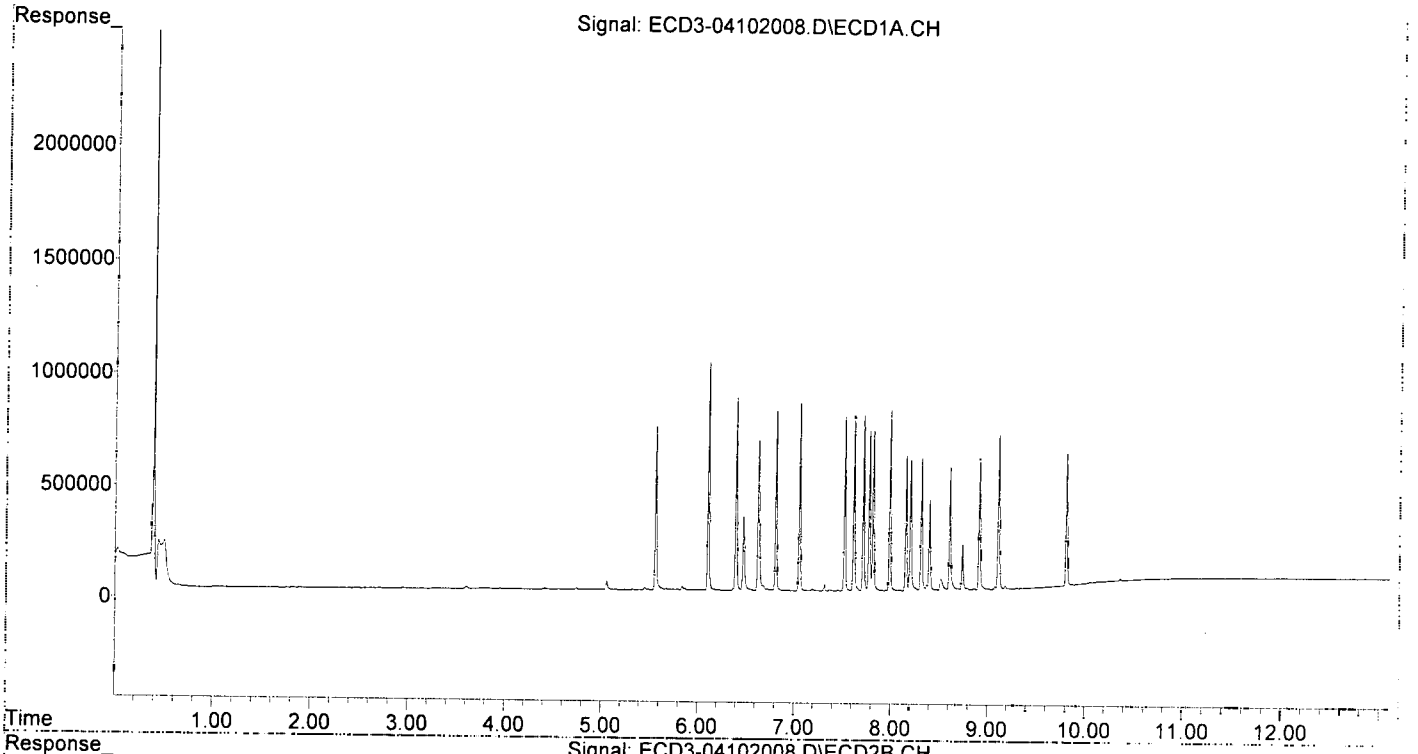
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.561	6.061	727524	601812	4.912	5.164	
22) S	DCBP (S)	9.806	10.678	587016	364366	5.136	5.168	
	Target Compounds							
2)	a-BHC	6.107	6.673	1011773	809491	5.001	5.157	
3)	g-BHC	6.395	6.994	864784	673024	5.008	4.996	
4)	b-BHC	6.472	7.059	326774	302941	4.790	4.933	
5)	Heptachlor	6.808	7.371	799546	564693	4.883	4.988	
6)	d-BHC	6.626	7.317	669294	620859	4.768	5.079	
7)	Aldrin	7.052	7.640	838045	699880	4.999	5.266	
8)	Heptachlo...	7.520	8.082	780587	590771	4.991	5.020	
9)	trans-Chl...	7.616	8.223	779273	605591	4.952	5.021	
10)	cis-Chlor...	7.714	8.331	784009	585259	4.995	5.053	
11)	Endosulfa...	7.815	8.382	712441	546125	4.964	5.078	
12)	4,4'-DDE	7.774	8.438	712814	584778	4.941	5.078	
13)	Dieldrin	7.987	8.584	805257	602273	5.011	5.030	
14)	Endrin	8.155	8.814	600774	419756	4.870	4.855	
15)	4,4'-DDD	8.201	8.857	580403	466489	4.781	4.943	
16)	Endosulfa...	8.314	8.963	589436	453168	4.869	4.941	
17)	4,4'-DDT	8.399	9.085	402575	260165	4.734	4.788	
18)	Endrin Al...	8.608	9.201	545702	424119	5.084	5.046	
19)	Endosulfa...	8.913	9.393	580327	407094	4.818	4.836	
20)	Methoxychlor	8.738	9.568	204727	127410	4.986	4.938	
21)	Endrin Ke...	9.110	9.797	688717	464140	4.781	4.851	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.520	8.223	780587	605591	8.450	7.623	
27)	trans-Non...	7.714	0.000	784009	0	5.269	N.D.	#
28)	2,4'-DDD	0.000	8.584	0	602273	N.D.	8.778	#
29)	2,4'-DDT	0.000	8.814	0	419756	N.D.	7.825	#
30)	cis-Nonac...	8.201f	8.857	580403	466489	3.581	3.780	
31)	Mirex	0.000	9.797	0	464140	N.D.	6.450	#
32)	Chlordane...	7.616	8.223	779273	605591	44.150	41.860	
33)	Chlordane...	7.714	8.331	784009	585259	37.835	47.346	
34)	Chlordane...	0.000	9.005	0	44812	N.D.	8.118	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.714f	8.557	784009	3979	941.848	3.553	#
37)	Toxaphene...	7.987	0.000	805257	0	534.402	N.D.	#
38)	Toxaphene...	8.314	8.963f	589436	453168	189.507	208.800	
39)	Toxaphene...	8.517f	9.005	48588	44812	11.323	4.289	#
40)	Toxaphene...	8.785	9.201	8822	424119	3.746	229.856	#
41)	Toxaphene...	0.000	9.568	0	127410	N.D.	62.950	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

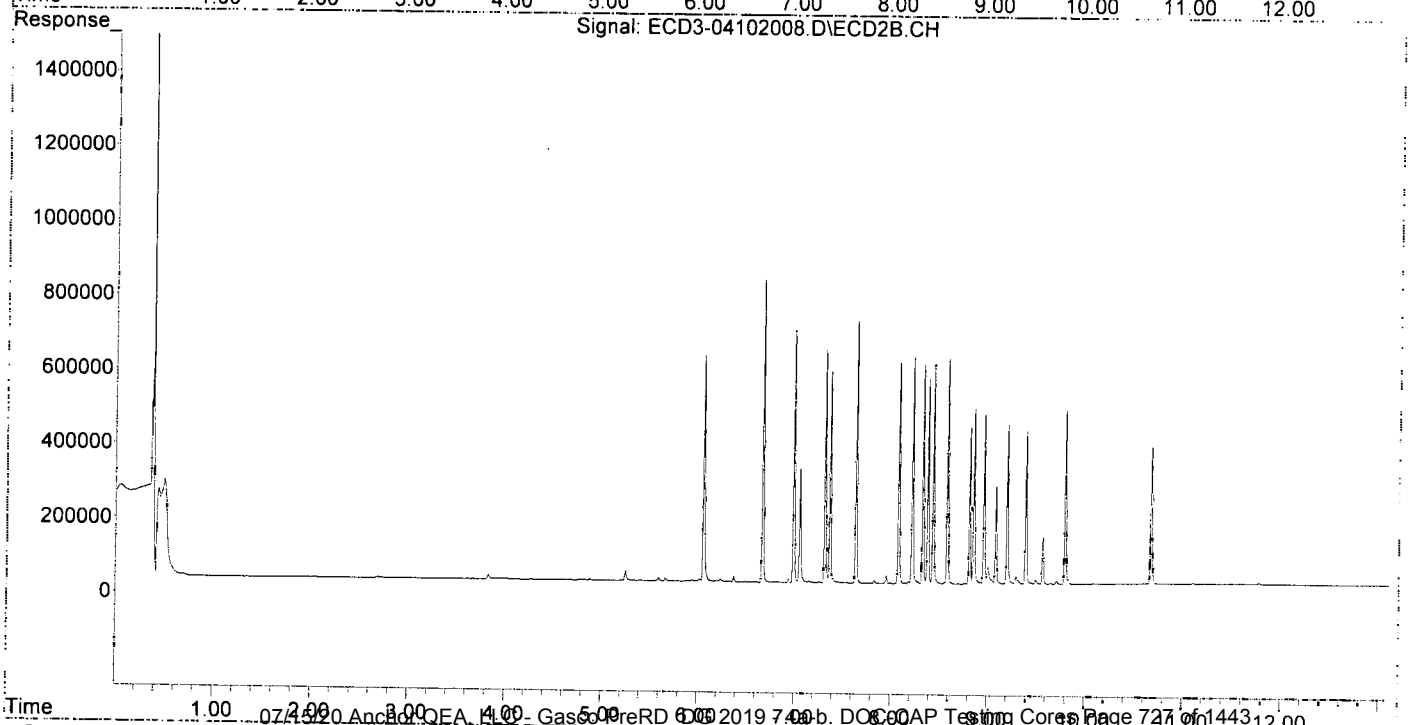
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:14
Operator : MJB
Sample : 0D10031-CAL4
Misc : A20C180, AB 5 ppb
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:46 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:31
Operator : MJB
Sample : 0D10031-CAL5
Misc : A20C181, AB 10 ppb
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

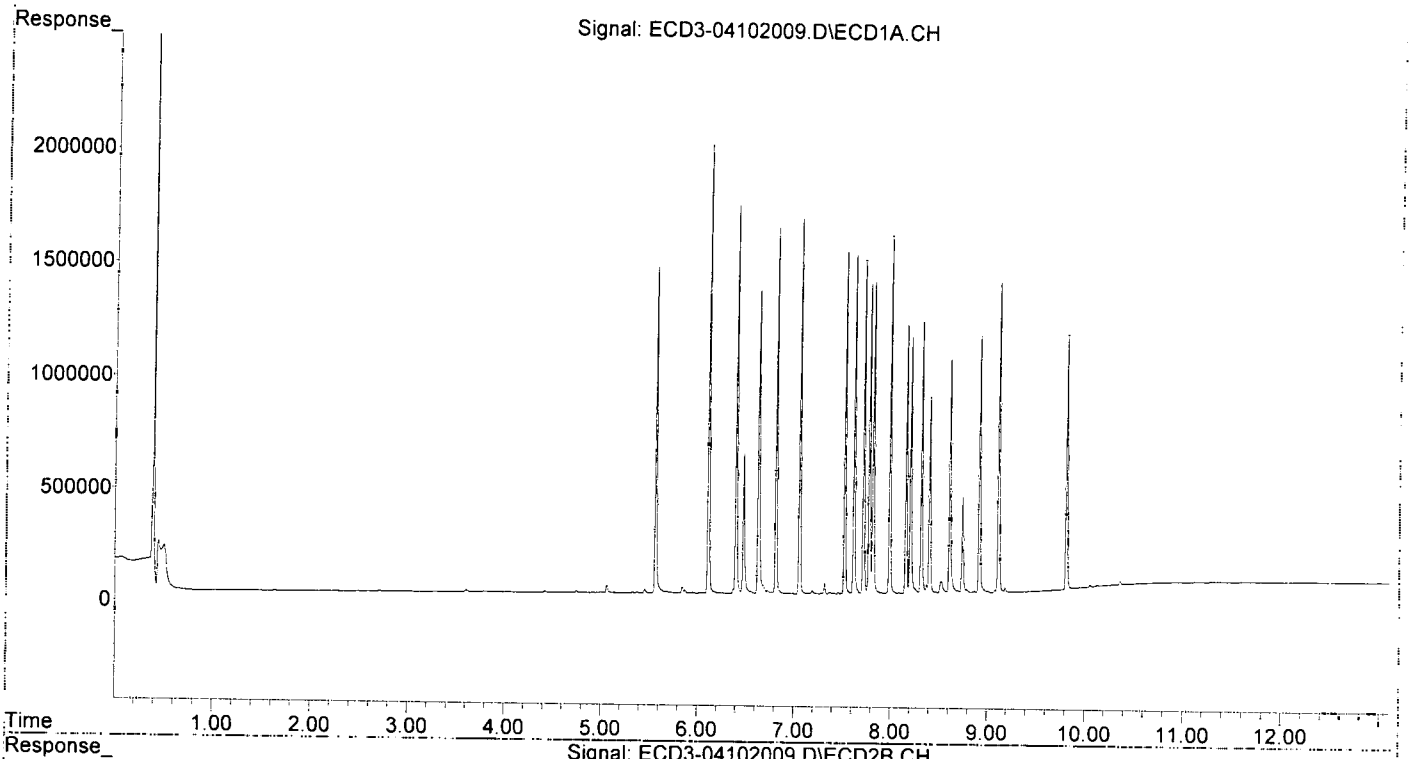
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.563	6.062	1449955	1164651	9.790	10.150	
22) S	DCBP (S)	9.808	10.679	1130527	701737	10.100	10.202	
	Target Compounds							
2)	a-BHC	6.109	6.674	1992062	1592422	9.847	10.145	
3)	g-BHC	6.395	6.994	1722298	1349252	9.974	10.015	
4)	b-BHC	6.473	7.059	621775	583118	9.114	9.495	
5)	Heptachlor	6.809	7.372	1629185	1105625	9.949	9.767	
6)	d-BHC	6.627	7.317	1348815	1223432	9.609	10.009	
7)	Aldrin	7.054	7.641	1665359	1316403	9.934	9.905	
8)	Heptachlo...	7.521	8.082	1525229	1175438	9.753	9.987	
9)	trans-Chl...	7.617	8.223	1502883	1202264	9.551	9.969	
10)	cis-Chlor...	7.714	8.332	1485434	1131819	9.463	9.772	
11)	Endosulfa...	7.815	8.383	1386208	1056492	9.659	9.824	
12)	4,4'-DDE	7.774	8.438	1382476	1137288	9.584	9.876	
13)	Dieldrin	7.988	8.585	1588078	1196698	9.881	9.994	
14)	Endrin	8.156	8.815	1200412	862016	9.731	9.971	
15)	4,4'-DDD	8.201	8.857	1143858	889692	9.422	9.428	
16)	Endosulfa...	8.315	8.963	1207633	876423	9.976	9.556	
17)	4,4'-DDT	8.399	9.085	875483	578694	10.057	10.438	
18)	Endrin Al...	8.608	9.202	1043139	811442	9.920	9.889	
19)	Endosulfa...	8.913	9.393	1141536	796875	9.476	9.467	
20)	Methoxychlor	8.739	9.568	427742	269363	10.262	10.268	
21)	Endrin Ke...	9.111	9.797	1381099	942335	9.588	9.849	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)	Oxychlordane	7.457	7.986f	8338	4446	BelowCal	3277.692	
26)	2,4'-DDE	7.521	8.223	1525229	1202264	16.643	15.419	
27)	trans-Non...	7.714	8.278	1485434	9116	10.165	1953.481	#
28)	2,4'-DDD	0.000	8.585	0	1196698	N.D.	17.780	#
29)	2,4'-DDT	0.000	8.815	0	862016	N.D.	16.070	#
30)	cis-Nonac...	8.201f	8.857	1143858	889692	7.258	7.434	
31)	Mirex	8.863	9.797	6194	942335	7125.821	13.550	#
32)	Chlordane...	7.617	8.223	1502883	1202264	85.147	83.103	
33)	Chlordane...	7.714	8.332	1485434	1131819	71.684	91.561	
34)	Chlordane...	0.000	9.005	0	49757	N.D.	9.493	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.714f	8.585f	1485434	1196698	1784.486	1068.499	#
37)	Toxaphene...	7.988	0.000	1588078	0	1053.916	N.D.	#
38)	Toxaphene...	8.315	8.963f	1207633	876423	388.261	403.817	
39)	Toxaphene...	8.518f	9.005	51106	49757	12.223	5.873	#
40)	Toxaphene...	8.786	9.202	14944	811442	6.346	440.326	#
41)	Toxaphene...	8.863f	9.568	6194	269363	2.042	133.085	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

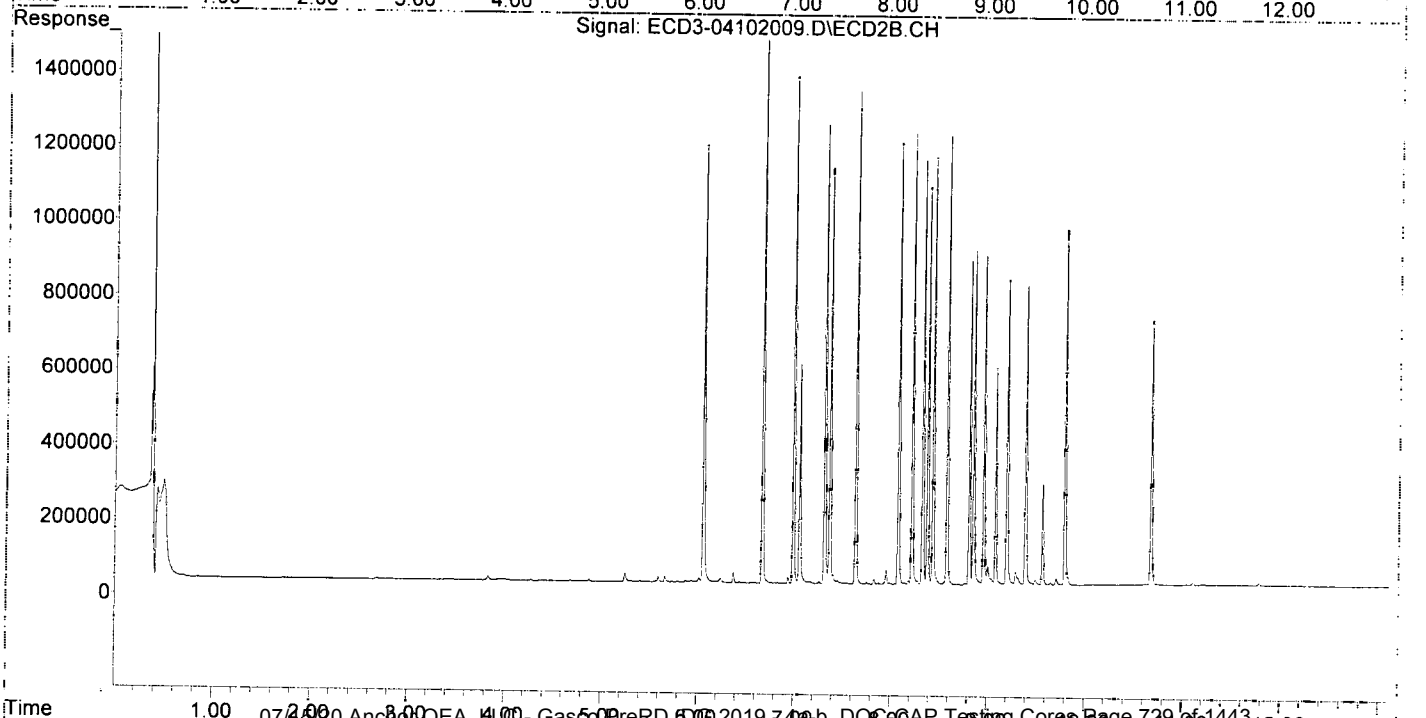
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:31
Operator : MJB
Sample : 0D10031-CAL5
Misc : A20C181, AB 10 ppb
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:48
Operator : MJB
Sample : 0D10031-CAL6
Misc : A20C182, AB 25 ppb
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

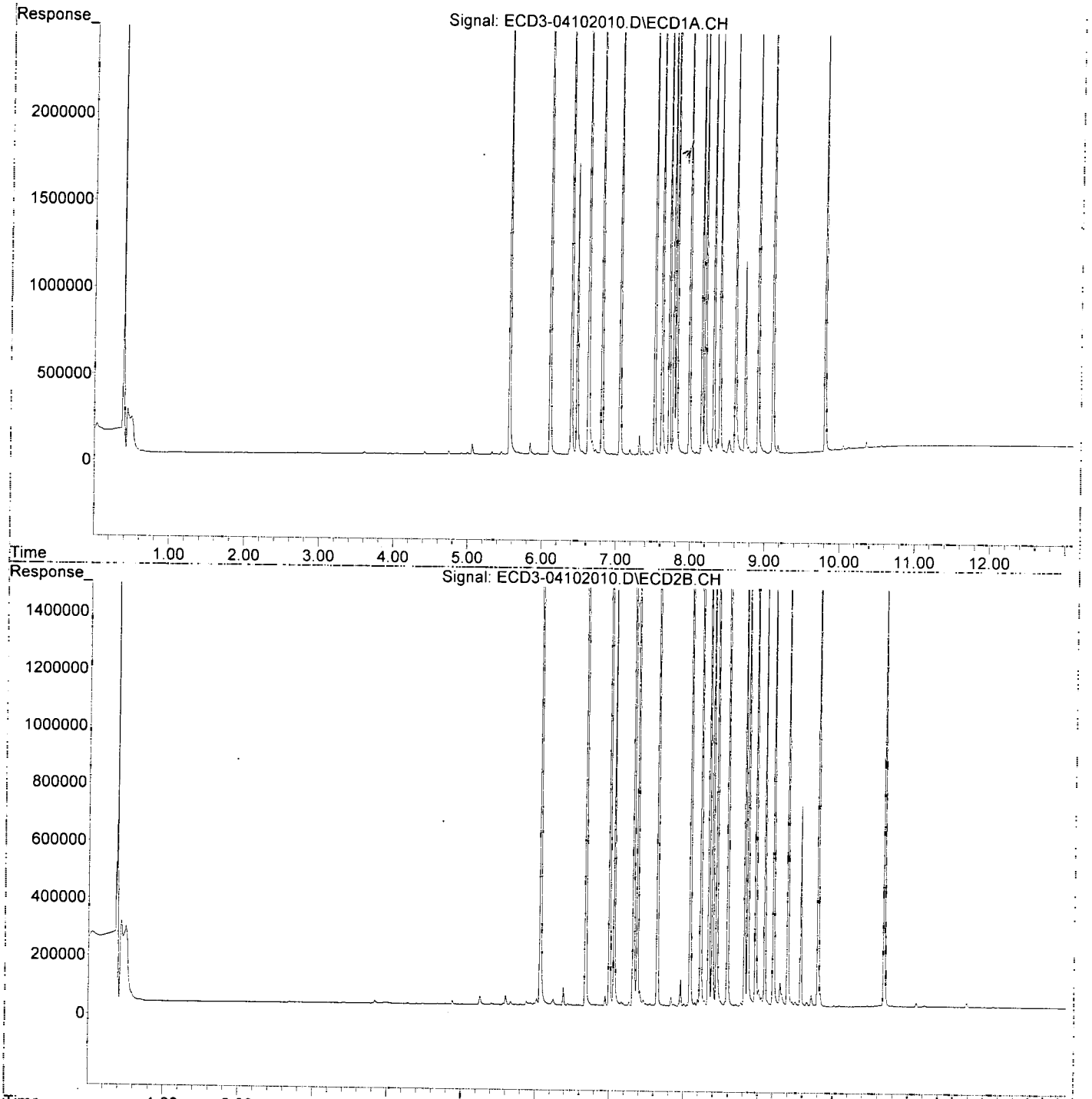
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.562	6.061	3620730	2793596	24.447	24.732	
22)	S DCBP (S)	9.807	10.679	2727108	1659485	24.672	24.614	
	Target Compounds							
2)	a-BHC	6.108	6.673	4970390	3891920	24.570	24.793	
3)	g-BHC	6.395	6.994	4292566	3362986	24.858	24.962	
4)	b-BHC	6.471	7.058	1680896	1441819	24.639	23.476	
5)	Heptachlor	6.808	7.371	3984158	2769954	24.331	24.469	
6)	d-BHC	6.624	7.315	3518783	3102871	25.068	25.384	
7)	Aldrin	7.053	7.640	4119405	3247513	24.573	24.436	
8)	Heptachlo...	7.520	8.082	3754002	2836226	24.005	24.099	
9)	trans-Chl...	7.616	8.223	3815437	2978658	24.247	24.698	
10)	cis-Chlor...	7.713	8.331	3703571	2773817	23.594	23.948	
11)	Endosulfa...	7.814	8.382	3466454	2611533	24.153	24.285	
12)	4,4'-DDE	7.773	8.437	3675424	2877432	25.479	24.988	
13)	Dieldrin	7.987	8.585	3986579	2919821	24.806	24.384	
14)	Endrin	8.155	8.814	3047888	2128761	24.707	24.624	
15)	4,4'-DDD	8.200	8.857	3056605	2212251	25.177	23.443	
16)	Endosulfa...	8.314	8.962	2966130	2201693	24.503	24.005	
17)	4,4'-DDT	8.399	9.085	2456263	1496497	26.957	26.020	
18)	Endrin Al...	8.607	9.201	2573122	1952460	24.768	24.237	
19)	Endosulfa...	8.913	9.393	2840981	2020111	23.584	23.998	
20)	Methoxychlor	8.737	9.568	1114647	689159	25.840	25.361	
21)	Endrin Ke...	9.110	9.797	3445975	2250304	23.923	23.520	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.948	0.000	8035	0	BelowCal	N.D.	
25)	Oxychlordane	7.455	8.004	20153	6735	BelowCal	3277.669	
26)	2,4'-DDE	7.520	8.223	3754002	2978658	40.921	38.976	
27)	trans-Non...	7.713	8.278	3703571	18136	25.612	1953.399	#
28)	2,4'-DDD	0.000	8.585	0	2919821	N.D.	44.172	#
29)	2,4'-DDT	8.081	8.814	12079	2128761	0.160	39.686	#
30)	cis-Nonac...	8.200f	8.857	3056605	2212251	19.706	18.921	
31)	Mirex	8.862	9.797	14690	2250304	7125.736	33.117	#
32)	Chlordane...	7.616	8.223	3815437	2978658	216.166	205.890	
33)	Chlordane...	7.713	8.331	3703571	2773817	178.726	224.394	
34)	Chlordane...	0.000	9.005	0	56358	N.D.	11.328	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.713f	8.585f	3703571	2919821	4449.187	2607.026	#
37)	Toxaphene...	7.987	0.000	3986579	0	2645.663	N.D.	#
38)	Toxaphene...	8.314	8.962f	2966130	2201693	953.627	1014.444	
39)	Toxaphene...	8.528	9.005	81066	56358	22.921	7.987	#
40)	Toxaphene...	8.785	9.201	38899	1952460	16.517	1047.578	#
41)	Toxaphene...	8.862f	9.568	14690	689159	4.843	340.495	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:48
Operator : MJB
Sample : 0D10031-CAL6
Misc : A20C182, AB 25 ppb
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:05
Operator : MJB
Sample : 0D10031-CAL7
Misc : A20C183, AB 50 ppb
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:26 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

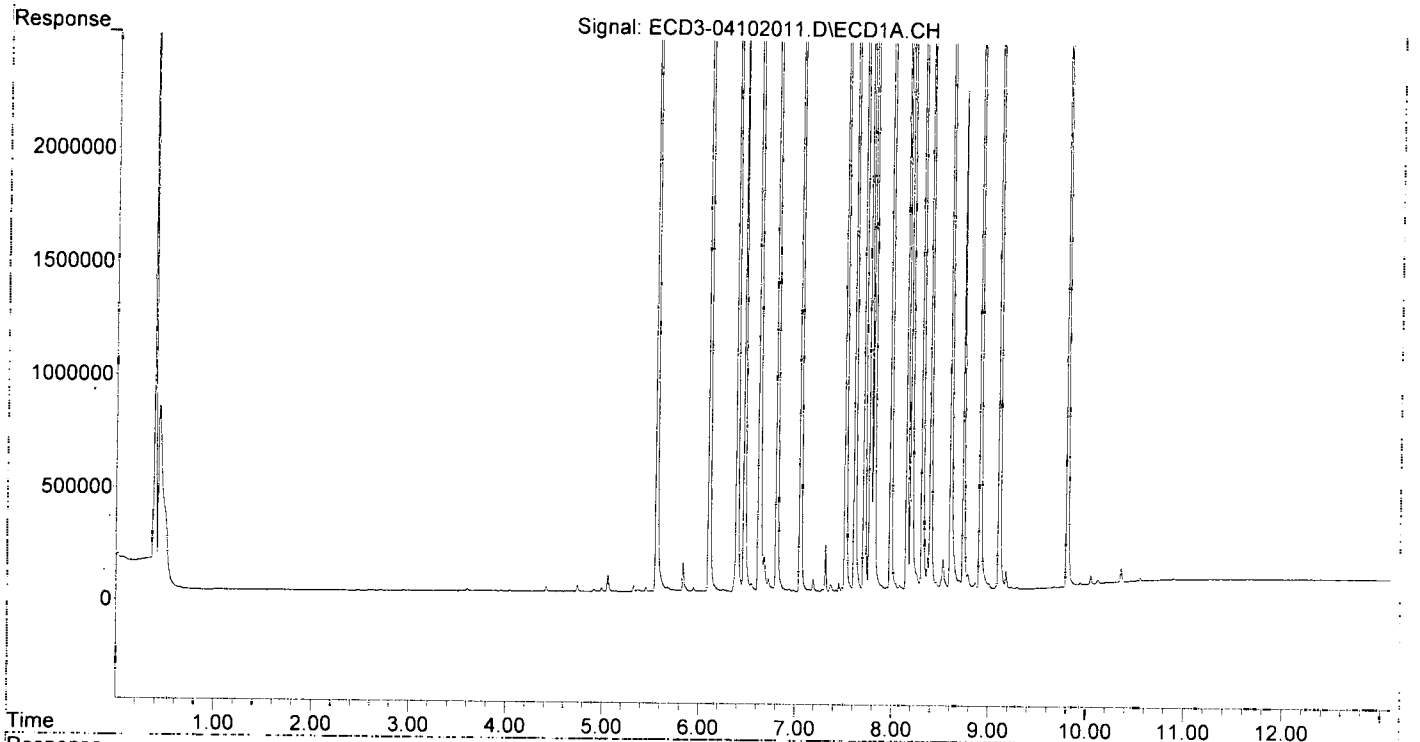
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.562	6.062	6908561	5350810	46.646	48.103	
22)	S DCBP (S)	9.807	10.679	5172590	3177027	46.965	47.841	
	Target Compounds							
2)	a-BHC	6.108	6.674	9856715	7382419	48.725	47.030	
3)	g-BHC	6.395	6.994	8390299	6395054	48.588	47.467	
4)	b-BHC	6.470	7.058	3275829	2819965	48.017	45.916	
5)	Heptachlor	6.808	7.372	7786801	5432137	47.553	47.986	
6)	d-BHC	6.624	7.316	7200622	5907599	51.298	48.329	
7)	Aldrin	7.053	7.640	7862388	6276155	46.900	47.226	
8)	Heptachlo...	7.520	8.082	7294406	5446885	46.644	46.281	
9)	trans-Chl...	7.615	8.222	7465806	5551909	47.445	46.035	
10)	cis-Chlor...	7.713	8.331	7133255	5236394	45.443	45.209	
11)	Endosulfa...	7.814	8.382	6731758	4951225	46.904	46.042	
12)	4,4'-DDE	7.772	8.437	7150986	5427651	49.573	47.135	
13)	Dieldrin	7.987	8.584	7608328	5672261	47.341	47.370	
14)	Endrin	8.154	8.814	6088856	4168787	49.357	48.222	
15)	4,4'-DDD	8.200	8.856	5813915	4432731	47.889	46.974	
16)	Endosulfa...	8.313	8.962	5720662	4306868	47.258	46.958	
17)	4,4'-DDT	8.399	9.084	5090784	3189186	52.647	52.511	
18)	Endrin Al...	8.607	9.201	4966378	3803916	47.918	47.784	
19)	Endosulfa...	8.912	9.392	5681676	3917488	47.167	46.538	
20)	Methoxychlor	8.738	9.568	2212679	1415590	48.967	49.507	
21)	Endrin Ke...	9.109	9.797	6843717	4537747	47.510	47.428	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.948	0.000	15497	0	BelowCal	N.D.	
25)	Oxychlordane	7.455	8.001	37958	11128	0.094	3277.625	#
26)	2,4'-DDE	7.520	8.222	7294406	5551909	78.770	74.086	
27)	trans-Non...	7.713	8.281	7133255	29937	49.399	0.051	#
28)	2,4'-DDD	0.000	8.584	0	5672261	N.D.	87.296	#
29)	2,4'-DDT	8.081	8.814	25017	4168787	0.332	77.718	#
30)	cis-Nonac...	8.200f	8.856	5813915	4432731	37.560	38.447	
31)	Mirex	8.862	9.797	29866	4537747	7125.582	67.873	#
32)	Chlordane...	7.615	8.222	7465806	5551909	422.980	383.758	
33)	Chlordane...	7.713	8.331	7133255	5236394	344.235	423.609	
34)	Chlordane...	0.000	9.004	0	67246	N.D.	14.354	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.713f	8.584f	7133255	5672261	8569.346	5064.604	#
37)	Toxaphene...	7.987	0.000	7608328	0	5049.210	N.D.	#
38)	Toxaphene...	8.313	8.962f	5720662	4306868	1839.225	1984.416	
39)	Toxaphene...	8.529	9.004	138672	67246	43.458	11.473	#
40)	Toxaphene...	8.784	9.201	68899	3803916	29.255	1995.767	#
41)	Toxaphene...	8.862f	9.568	29866	1415590	9.846	699.405	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

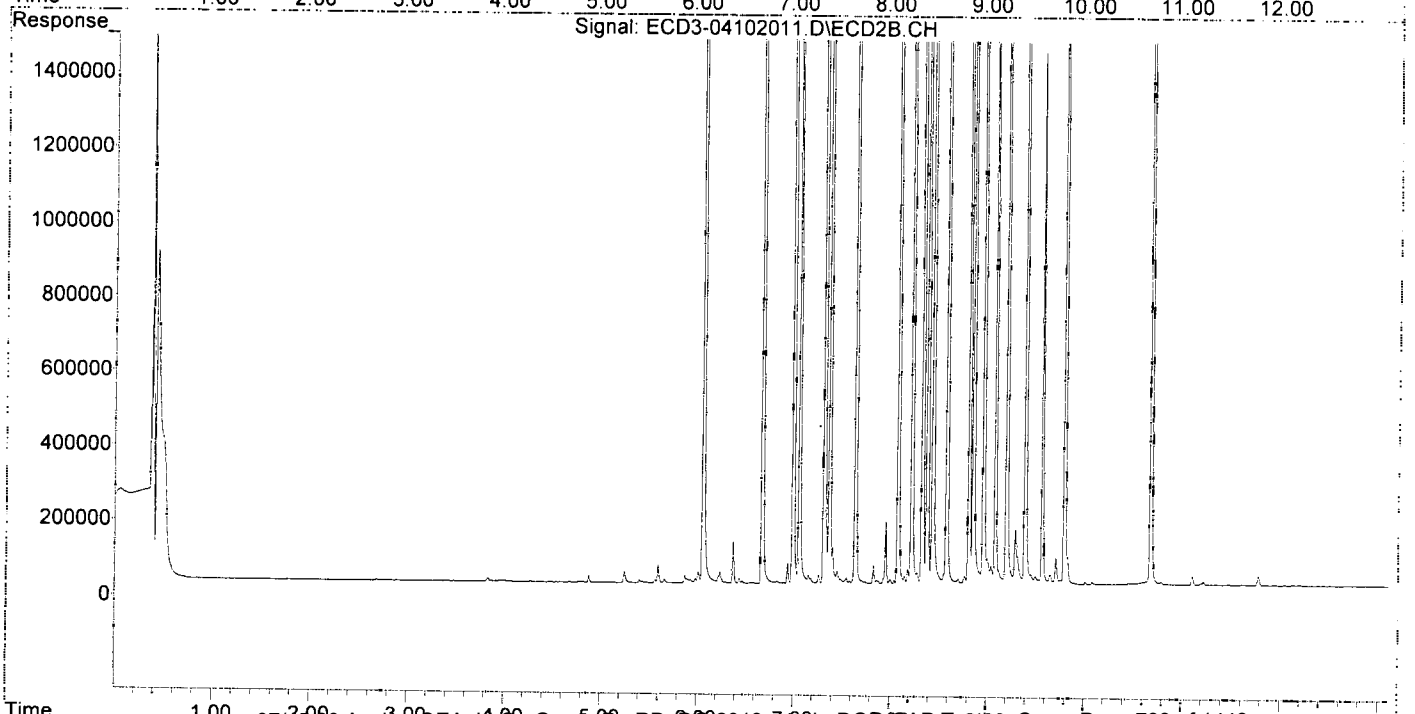
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:05
Operator : MJB
Sample : 0D10031-CAL7
Misc : A20C183, AB 50 ppb
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:26 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:22
Operator : MJB
Sample : 0D10031-CAL8
Misc : A20C184, AB 100 ppb
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:36 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

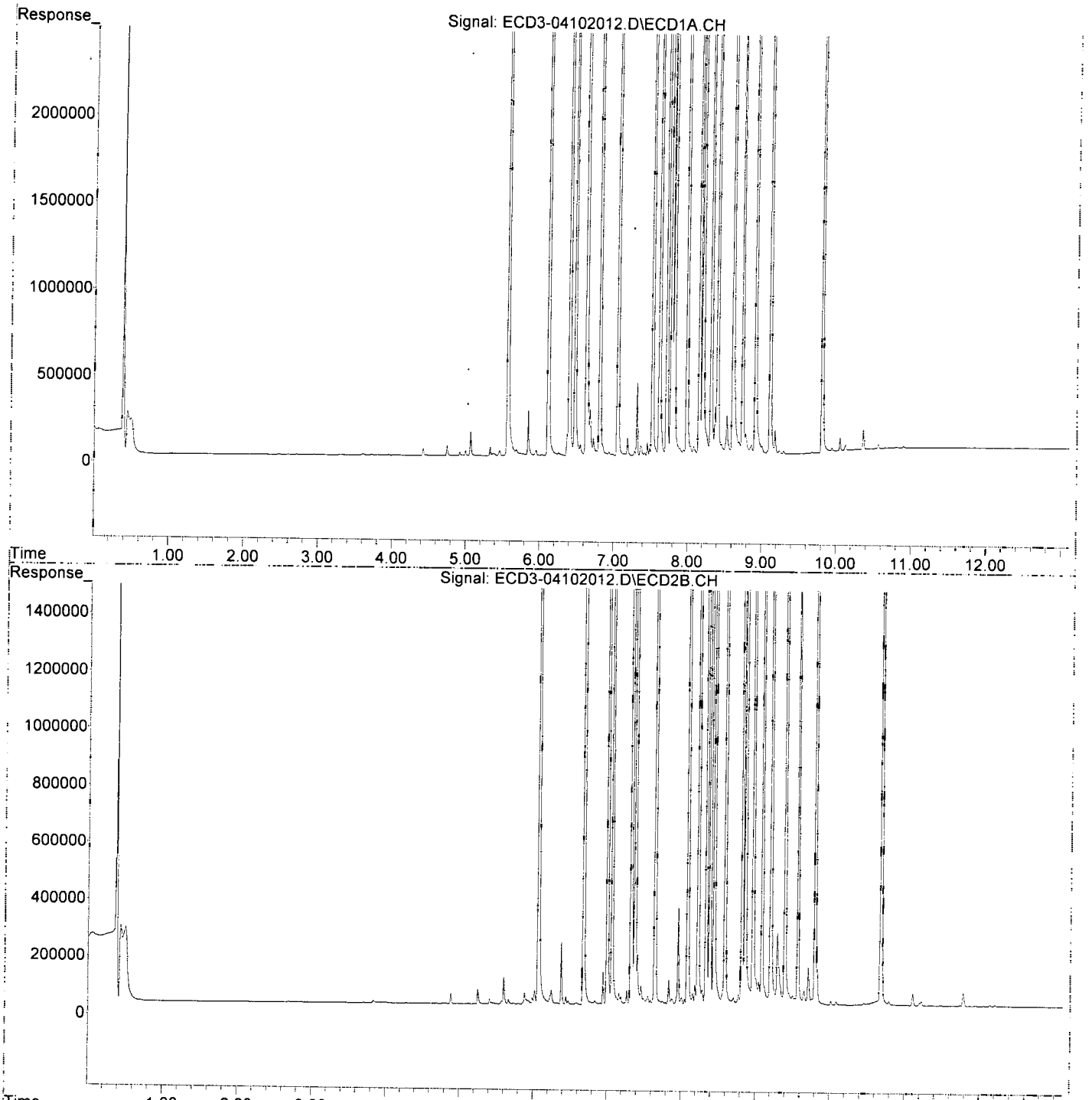
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.562	6.062	14508961	10942666	97.963	101.471	
22)	S DCBP (S)	9.807	10.679	10967512	6496705	99.662	100.457	
	Target Compounds							
2)	a-BHC	6.108	6.673	20690311	15054052	102.278	95.902	
3)	g-BHC	6.395	6.994	17852129	13117531	103.381	97.365	
4)	b-BHC	6.470	7.058	7197743	5838273	105.505	95.061	
5)	Heptachlor	6.808	7.371	16932118	10998035	103.403	97.154	
6)	d-BHC	6.623	7.315	15654391	12327900	111.524	100.853	
7)	Aldrin	7.052	7.640	16874638	12626262	100.659	95.008	
8)	Heptachlo...	7.518	8.081	15381959	11258743	98.361	95.663	
9)	trans-Chl...	7.614	8.222	15938657	11619020	101.289	96.341	
10)	cis-Chlor...	7.712	8.330	15103841	10960125	96.221	94.625	
11)	Endosulfa...	7.813	8.382	14072419	10161726	98.051	94.494	
12)	4,4'-DDE	7.772	8.437	15292864	11367630	106.015	98.719	
13)	Dieldrin	7.986	8.584	16300118	11853447	101.424	98.991	
14)	Endrin	8.154	8.814	12878104	8690942	104.392	100.531	
15)	4,4'-DDD	8.198	8.856	12428792	9158353	102.375	97.051	
16)	Endosulfa...	8.312	8.962	12147287	8759068	100.349	95.500	
17)	4,4'-DDT	8.398	9.085	11118672	7015904	103.417	104.756	
18)	Endrin Al...	8.606	9.201	10213956	7859690	98.361	100.574	
19)	Endosulfa...	8.911	9.393	11882557	8368447	98.643	99.414	
20)	Methoxychlor	8.736	9.568	5195602	3310270	103.898	104.189	
21)	Endrin Ke...	9.109	9.797	13903939	9234850	96.524	96.522	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.948	0.000	29093	0	0.016	N.D.	#
25)	Oxychlordane	7.453	8.001	74114	24244	0.373	0.026	#
26)	2,4'-DDE	7.518	8.222	15381959	11619020	162.197	162.213	
27)	trans-Non...	7.712	8.279	15103841	51428	104.227	0.246	#
28)	2,4'-DDD	7.894	8.584	40435	11853447	0.279	188.988	#
29)	2,4'-DDT	8.080	8.814	50870	8690942	0.676	162.025	#
30)	cis-Nonac...	8.198	8.856	12428792	9158353	79.964	81.065	
31)	Mirex	8.860	9.797	53792	9234850	0.173	141.547	#
32)	Chlordane...	7.614	8.222	15938657	11619020	903.016	803.127	
33)	Chlordane...	7.712	8.330	15103841	10960125	728.878	886.643	
34)	Chlordane...	0.000	9.002	0	93008	N.D.	21.515	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.712f	8.584f	15103841	11853447	18144.598	10583.613	#
37)	Toxaphene...	7.986	0.000	16300118	0	10817.451	N.D.	#
38)	Toxaphene...	8.312	8.962f	12147287	8759068	3905.421	4035.795	
39)	Toxaphene...	8.528	9.002	225281	93008	74.253	19.717	#
40)	Toxaphene...	8.783	9.201	118505	7859690	50.318	3936.877	#
41)	Toxaphene...	8.860	9.568	53792	3310270	17.733	1635.514	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:22
Operator : MJB
Sample : 0D10031-CAL8
Misc : A20C184, AB 100 ppb
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:36 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:40
Operator : MJB
Sample : 0D10031-CAL9
Misc : A20C177, AB 200 ppb
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 4/13/20

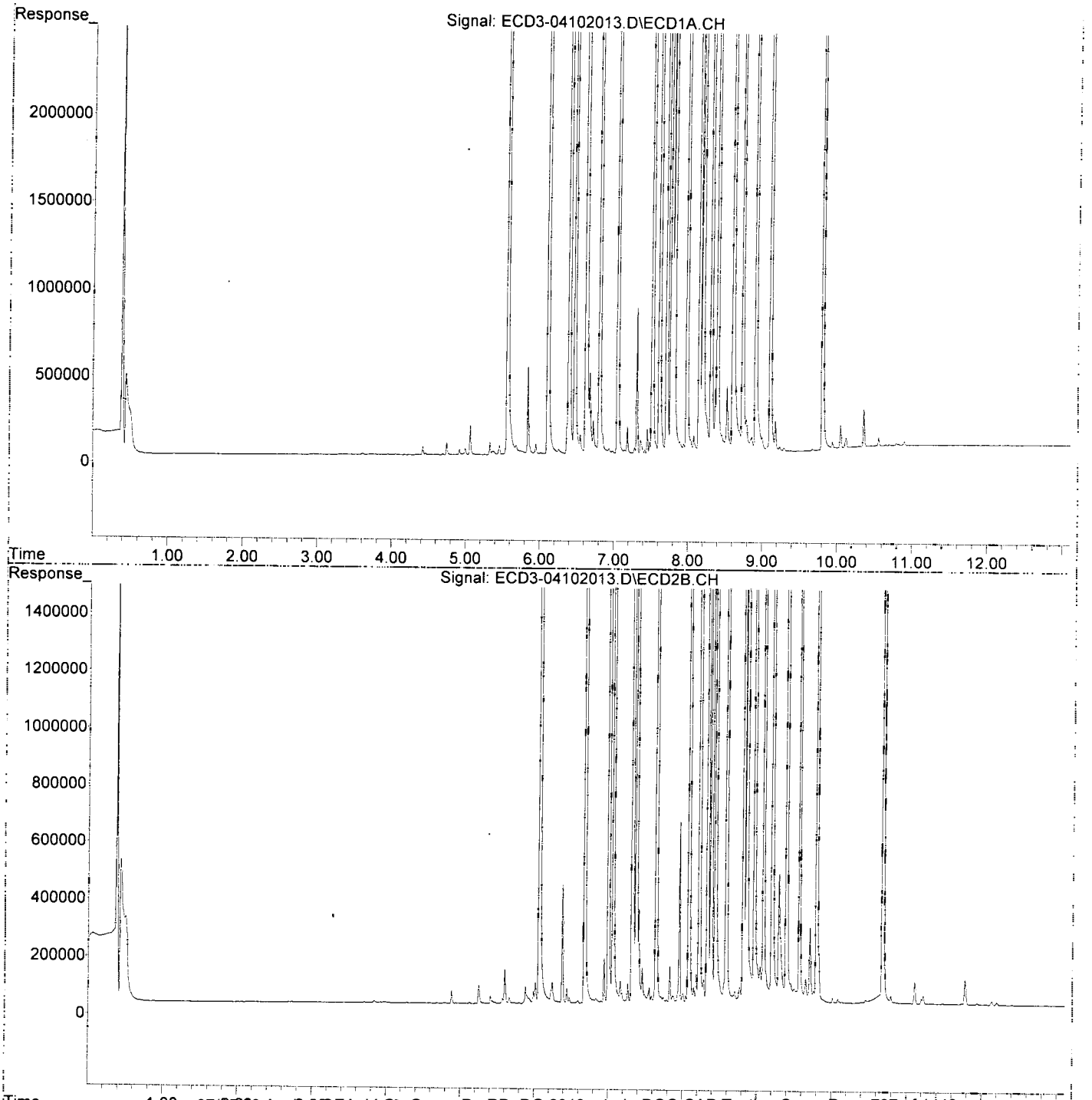
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.564	6.062	28992333	20414502	195.753	200.582	
22)	S	DCBP (S)	9.807	10.679	22430618	12440663	203.376	202.014	
		Target Compounds							
2)		a-BHC	6.110	6.674	42454244	28719329	209.864	182.957	
3)		g-BHC	6.395	6.995	36042538	24936908	208.722	185.094	
4)		b-BHC	6.470	7.057	14896865	11368661	218.359	185.108	
5)		Heptachlor	6.809	7.372	34291575	22169726	209.416	195.841	
6)		d-BHC	6.623	7.316	33683152	23989125	239.964	196.253	
7)		Aldrin	7.053	7.640	33769142	23855766	201.437	179.506	
8)		Heptachlo...	7.519	8.081	29992904	21270880	191.791	180.733	
9)		trans-Chl...	7.615	8.223	31666318	21709173	201.237	180.006	
10)		cis-Chlor...	7.713	8.331	30069367	20913495	191.561	180.557	
11)		Endosulfa...	7.813	8.382	28839578	19228923	200.942	178.810	
12)		4,4'-DDE	7.772	8.437	31314990	21652854	217.085	188.038	
13)		Dieldrin	7.987	8.584	32386470	22315768	201.518	186.364	
14)		Endrin	8.154	8.814	27093743	17588255	219.626	203.450	
15)		4,4'-DDD	8.198	8.856	26222383	17432728	215.991	184.735	
16)		Endosulfa...	8.312	8.961	25140767	17688125	207.688	192.854	
17)		4,4'-DDT	8.398	9.084	24723061	15058756	194.834	194.066	
18)		Endrin Al...	8.606	9.201	21324700	15325432	203.772	202.593	
19)		Endosulfa...	8.912	9.392	23987343	16356168	199.132	194.305	
20)		Methoxychlor	8.736	9.567	11463022	7310519	197.090	196.831	
21)		Endrin Ke...	9.109	9.797	28865829	18211713	200.392	190.348	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.948	0.000	60947	0	0.255	N.D.	#
25)		Oxychlordane	7.453	8.003	139204	31616	0.876	0.101	#
26)		2,4'-DDE	7.519	8.223	29992904	21709173	303.712	331.640	
27)		trans-Non...	7.713	8.282	30069367	80932	205.522	0.514	#
28)		2,4'-DDD	7.895	8.584	63615	22315768	0.564	380.542	#
29)		2,4'-DDT	8.079	8.814	96846	17588255	1.286	327.896	#
30)		cis-Nonac...	8.198	8.856	26222383	17432728	166.532	159.603	
31)		Mirex	8.859	9.797	83812	18211713	0.477	292.440	#
32)		Chlordane...	7.615	8.223	31666318	21709173	1794.077	1500.577	
33)		Chlordane...	7.713	8.331	30069367	20913495	1451.081	1691.843	
34)		Chlordane...	0.000	8.961f	0	17688125	N.D.	4875.104	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.713f	8.584f	30069367	22315768	36123.034	19925.127	#
37)		Toxaphene...	7.987	0.000	32386470	0	21493.039	N.D.	#
38)		Toxaphene...	8.312	8.961f	25140767	17688125	8082.898	8149.914	
39)		Toxaphene...	8.527	9.042f	380167	125813	129.083	30.208	#
40)		Toxaphene...	8.784	9.201	186197	15325432	79.061	7137.189	#
41)		Toxaphene...	8.859	9.567	83812	7310519	27.630	3611.928	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:40
Operator : MJB
Sample : 0D10031-CAL9
Misc : A20C177, AB 200 ppb
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

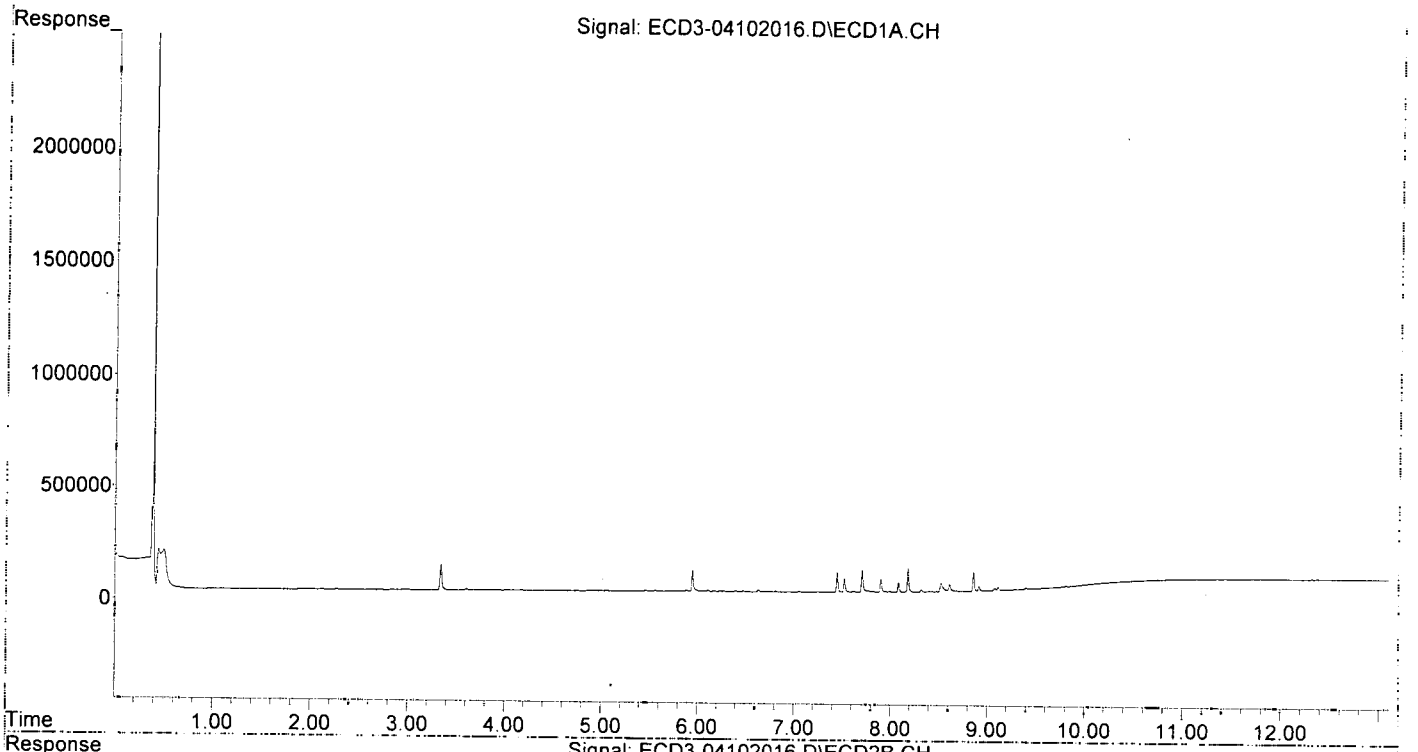
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.061	0	4574	N.D.	1884.074	#
22)	S DCBP (S)	9.808	0.000	4407	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	6.108	6.672	5012	3637	0.025	0.023	
3)	g-BHC	0.000	6.994	0	3847	N.D.	0.029	#
4)	b-BHC	0.000	7.061	0	3262	N.D.	0.053	#
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	6.631	7.319	7663	7865	0.055	0.064	
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.523	0.000	59883	0	0.383	N.D.	#
9)	trans-Chl...	0.000	8.216	0	54754	N.D.	0.454	#
10)	cis-Chlor...	7.705	8.332	97265	7331	0.620	0.063	#
11)	Endosulfa...	7.775f	0.000	4570	0	0.032	N.D.	#
12)	4,4'-DDE	7.775	0.000	4570	0	0.032	N.D.	#
13)	Dieldrin	0.000	8.592	0	50583	N.D.	0.422	#
14)	Endrin	8.181f	8.817	105931	32434	0.859	0.375	#
15)	4,4'-DDD	8.181	8.857	105931	83146	0.873	0.881	
16)	Endosulfa...	8.318	8.965	9575	7808	0.079	0.085	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.611	9.203	31419	25644	0.081	0.078	
19)	Endosulfa...	8.915	9.394	19857	15167	0.165	0.180	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.112	9.790	13697	60436	0.095	0.632	#
23)	Hexachlor...	3.341	3.736	112302	112755	0.486	0.479	
24)	Hexachlor...	5.948	6.532	90891	78616	0.480	0.478	
25)	Oxychlordane	7.448	8.010	87083	67961	0.473	0.469	
26)	2,4'-DDE	7.523	8.216	59883	54754	0.481	0.477	
27)	trans-Non...	7.705	8.287	97265	76561	0.471	0.474	
28)	2,4'-DDD	7.900	8.592	56544	50583	0.477	0.469	
29)	2,4'-DDT	8.083	8.817	41657	32434	0.553	0.605	
30)	cis-Nonac...	8.181	8.857	105931	83146	0.481	0.480	
31)	Mirex	8.858	9.790	82399	60436	0.462	0.478	
32)	Chlordane...	0.000	8.216	0	54754	N.D.	3.785	#
33)	Chlordane...	7.705	8.332	97265	7331	4.694	0.593	#
34)	Chlordane...	0.000	9.009	0	33786	N.D.	5.054	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.705f	8.592f	97265	50583	116.847	45.164	#
37)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)	Toxaphene...	8.318	8.965f	9575	7808	3.078	3.598	
39)	Toxaphene...	8.522	9.009	37652	33786	7.415	0.758	#
40)	Toxaphene...	0.000	9.203	0	25644	N.D.	10.907	#
41)	Toxaphene...	8.858	0.000	82399	0	27.163	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

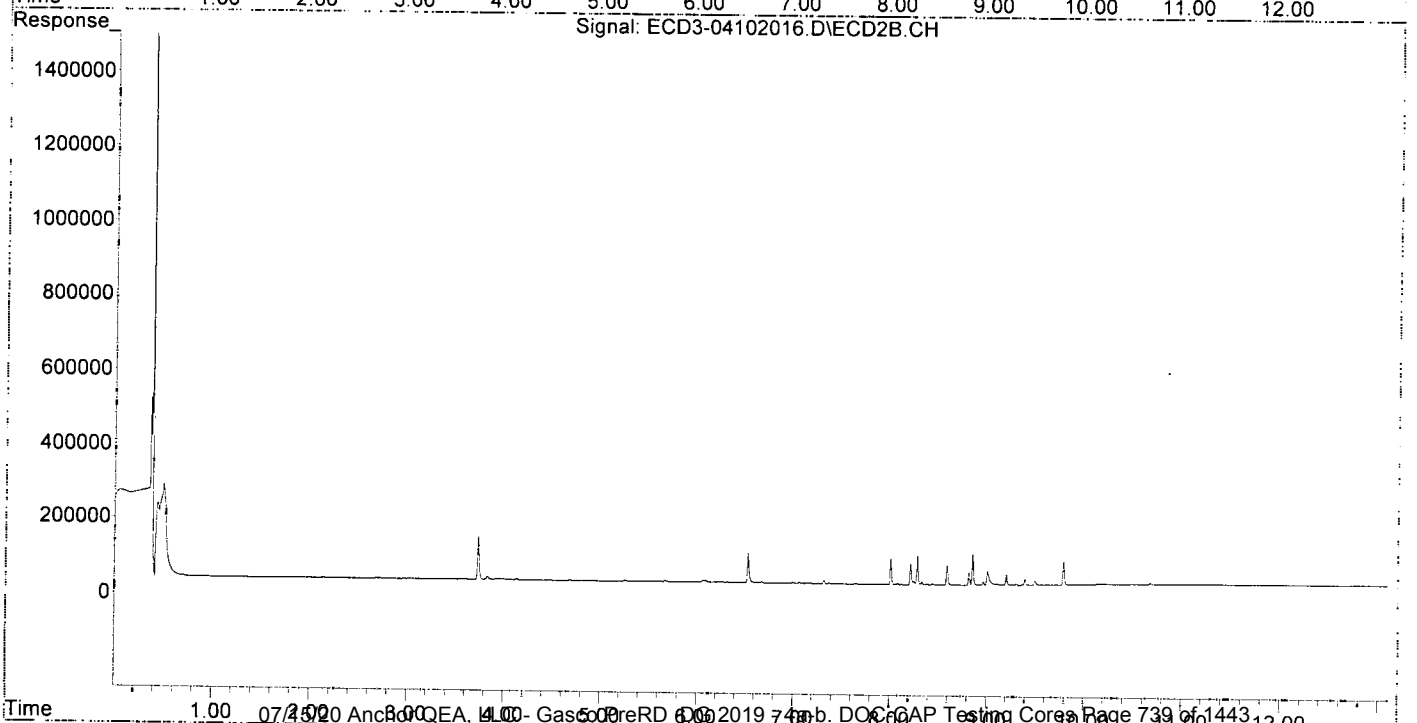
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:48
Operator : MJB
Sample : 0D10031-CALB
Misc : A20C353, 9-42 1 ppb
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:55 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

MJB 4/13/20

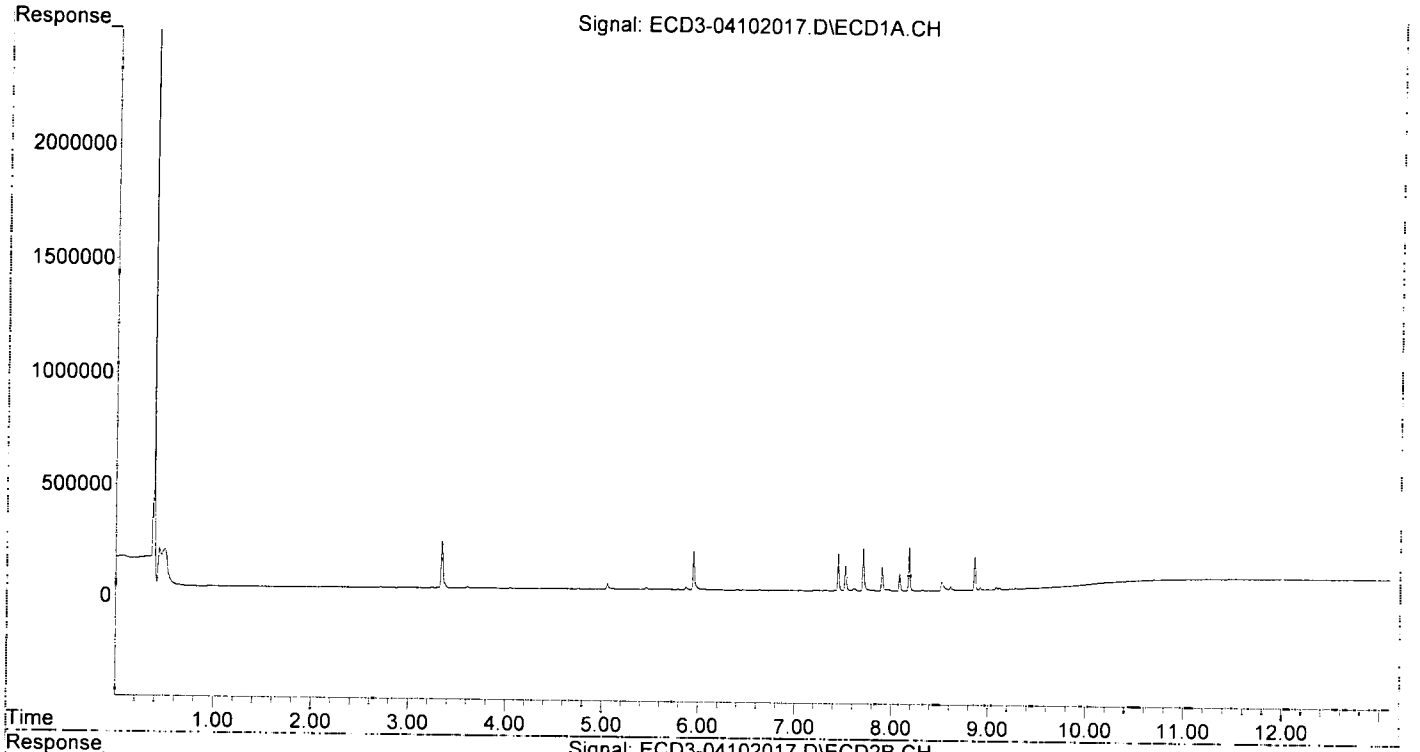
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.080	0	8650	N.D.	1884.038	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	0.000	7.318	0	2599	N.D.	0.021	#
7)		Aldrin	0.000	7.658	0	5819	N.D.	0.044	#
8)		Heptachlo...	7.522	0.000	114378	0	0.731	N.D.	#
9)		trans-Chl...	7.617	8.216	9623	102014	0.061	0.846	#
10)		cis-Chlor...	7.706	8.332	189735	9463	1.209	0.082	#
11)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	0.000	8.593	0	93331	N.D.	0.779	#
14)		Endrin	8.181f	8.817	197292	56936	1.599	0.659	#
15)		4,4'-DDD	8.181	8.858	197292	153334	1.625	1.625	
16)		Endosulfa...	0.000	8.965	0	3804	N.D.	0.041	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.610	9.203	17627	13388	BelowCal	3407.041	
19)		Endosulfa...	8.915	9.394	11254	8072	0.093	0.096	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	9.112	9.790	6973	100894	0.048	1.055	#
23)		Hexachlor...	3.342	3.736	210953	210162	1.056	1.072	
24)		Hexachlor...	5.948	6.532	171487	145117	1.085	1.088	
25)		Oxychlordane	7.447	8.010	167657	131841	1.096	1.117	
26)		2,4'-DDE	7.522	8.216	114378	102014	1.085	1.088	
27)		trans-Non...	7.706	8.287	189735	145443	1.118	1.099	
28)		2,4'-DDD	7.899	8.593	106028	93331	1.085	1.111	
29)		2,4'-DDT	8.083	8.817	77977	56936	1.036	1.061	
30)		cis-Nonac...	8.181	8.858	197292	153334	1.078	1.083	
31)		Mirex	8.858	9.790	147950	100894	1.125	1.076	
32)		Chlordane...	7.617	8.216	9623	102014	0.545	7.051	#
33)		Chlordane...	7.706	8.332	189735	9463	9.156	0.766	#
34)		Chlordane...	0.000	9.009	0	36347	N.D.	5.766	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.706f	8.593f	189735	93331	227.933	83.333	#
37)		Toxaphene...	7.944f	0.000	2059	0	1.366	N.D.	#
38)		Toxaphene...	0.000	8.965f	0	3804	N.D.	1.753	#
39)		Toxaphene...	8.520f	9.009	38990	36347	7.894	1.578	#
40)		Toxaphene...	0.000	9.203	0	13388	N.D.	4.132	#
41)		Toxaphene...	8.858	0.000	147950	0	48.773	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

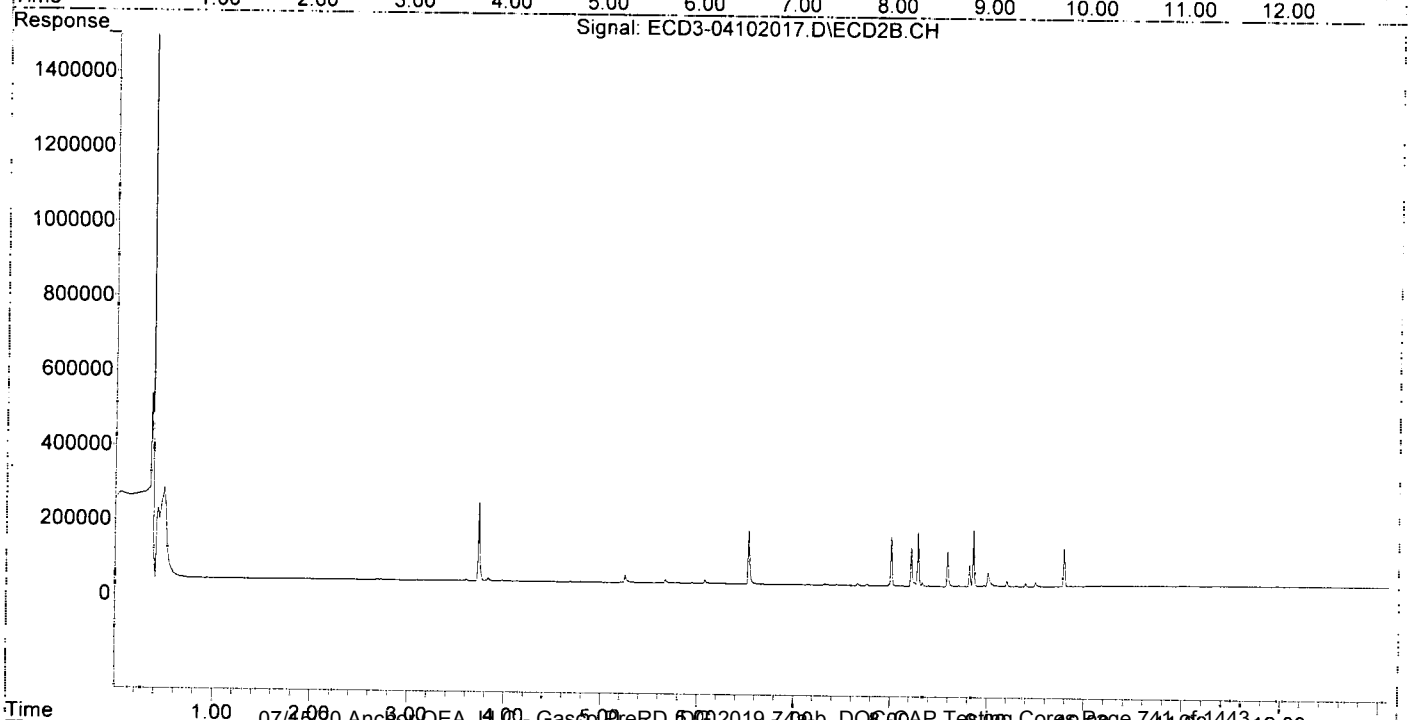
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:48
Operator : MJB
Sample : 0D10031-CALB
Misc : A20C353, 9-42 1 ppb
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:55 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:06
Operator : MJB
Sample : 0D10031-CALC
Misc : A20C354, 9-42 2 ppb
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:08 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

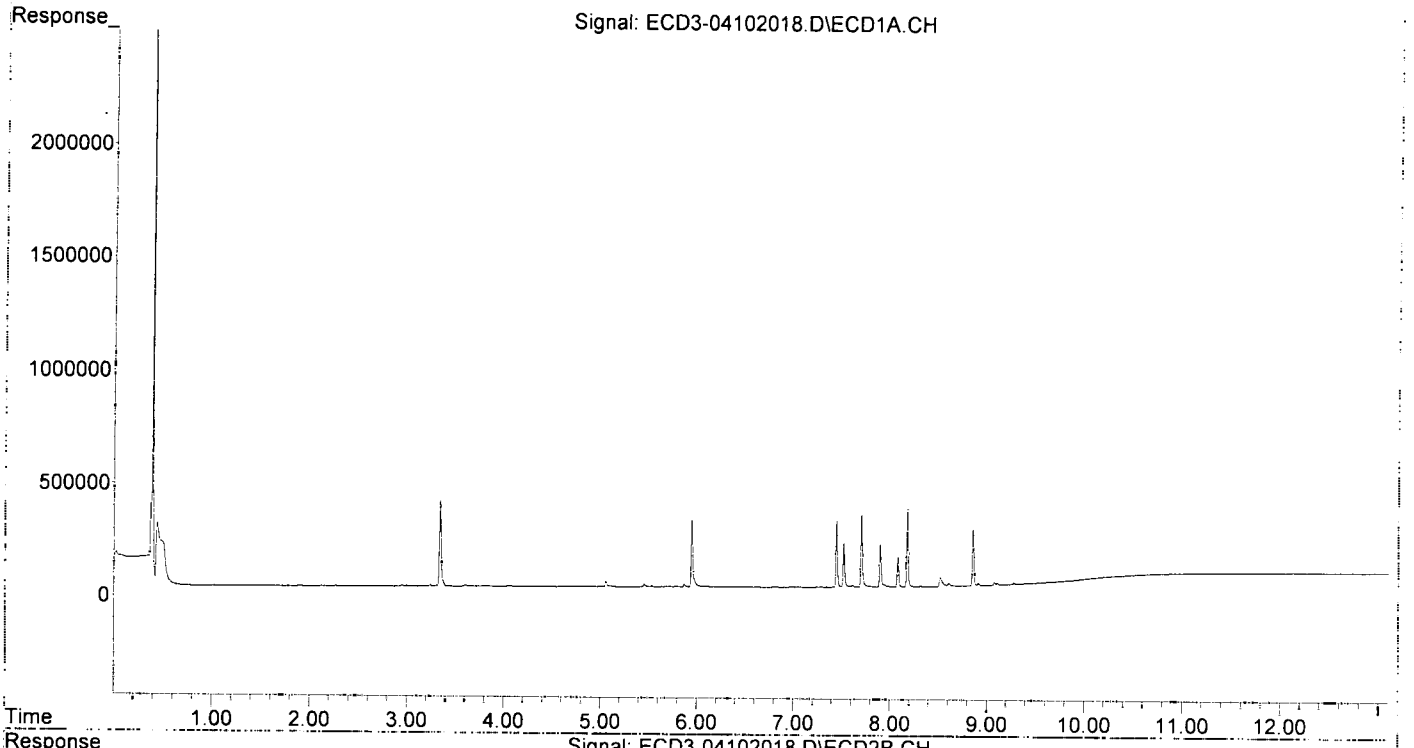
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.533f	6.080	5051	9196	0.034	1884.033	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	0.000	7.319	0	3566	N.D.	0.029	#
7)	Aldrin	0.000	7.661f	0	3523	N.D.	0.027	#
8)	Heptachlo...	7.523	0.000	197703	0	1.264	N.D.	#
9)	trans-Chl...	7.616	8.216	8164	175821	0.052	1.458	#
10)	cis-Chlor...	7.706	8.331	319860	15042	2.038	0.130	#
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)	Dieldrin	0.000	8.592	0	158108	N.D.	1.320	#
14)	Endrin	8.181f	8.818	342161	96604	2.774	1.117	#
15)	4,4'-DDD	8.181	8.858	342161	262929	2.818	2.786	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.610	9.203	13355	10519	BelowCal	3407.077	
19)	Endosulfa...	8.915	9.395	10240	7570	0.085	0.090	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.111	9.790	6943	167144	0.048	1.747	#
23)	Hexachlor...	3.342	3.736	381441	372830	2.041	2.064	
24)	Hexachlor...	5.948	6.533	294999	248384	2.013	2.037	
25)	Oxychlordane	7.448	8.011	296003	226120	2.088	2.073	
26)	2,4'-DDE	7.523	8.216	197703	175821	2.008	2.044	
27)	trans-Non...	7.706	8.287	319860	251420	2.027	2.060	
28)	2,4'-DDD	7.900	8.592	187358	158108	2.084	2.085	
29)	2,4'-DDT	8.083	8.818	133977	96604	1.780	1.801	
30)	cis-Nonac...	8.181	8.858	342161	262929	2.025	2.027	
31)	Mirex	8.858	9.790	248901	167144	2.145	2.055	
32)	Chlordane...	7.616	8.216	8164	175821	0.463	12.153	#
33)	Chlordane...	7.706	8.331	319860	15042	15.436	1.217	#
34)	Chlordane...	0.000	9.009	0	36045	N.D.	5.682	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.706f	8.592f	319860	158108	384.255	141.170	#
37)	Toxaphene...	7.946f	0.000	8823	0	5.855	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.523	9.009	37849	36045	7.486	1.482	#
40)	Toxaphene...	0.000	9.203	0	10519	N.D.	2.546	#
41)	Toxaphene...	8.858	0.000	248901	0	82.052	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

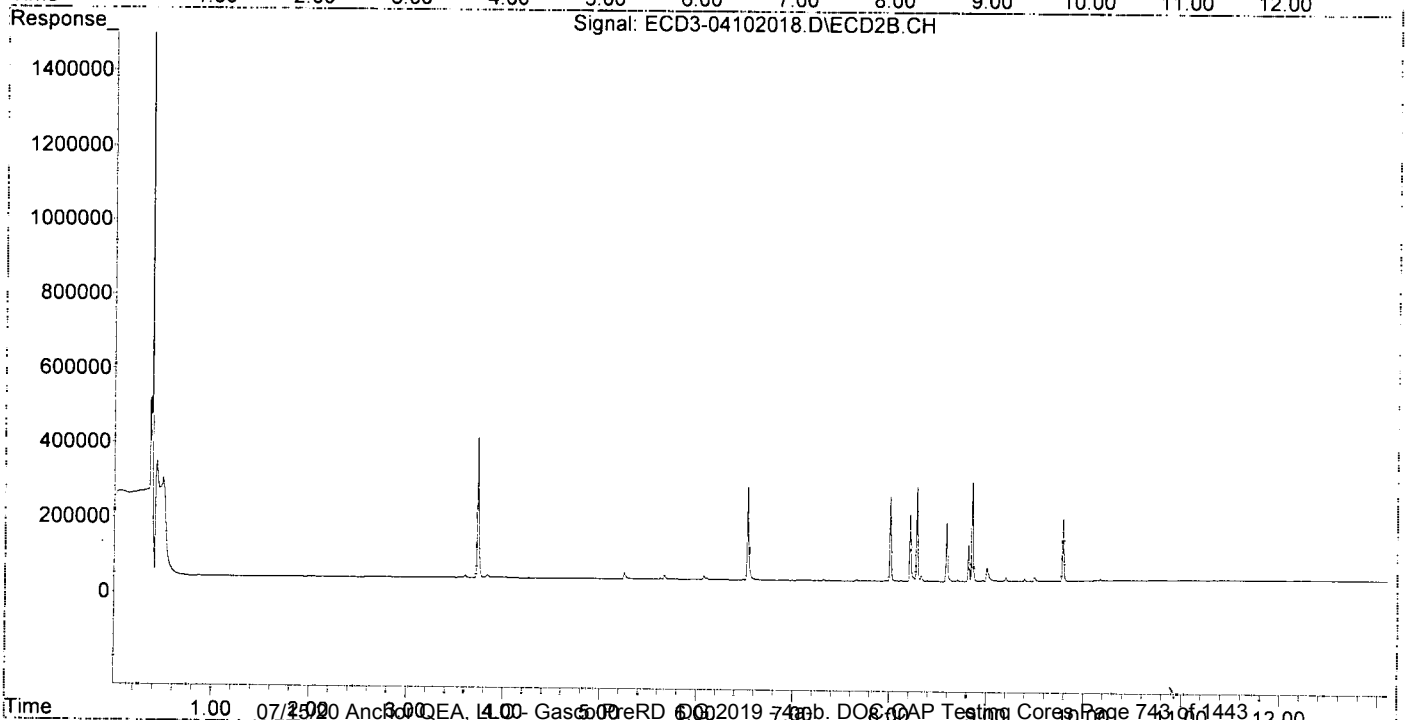
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:06
Operator : MJB
Sample : 0D10031-CALC
Misc : A20C354, 9-42 2 ppb
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:08 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:23
Operator : MJB
Sample : 0D10031-CALD
Misc : A20C355, 9-42 5 ppb
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:21 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

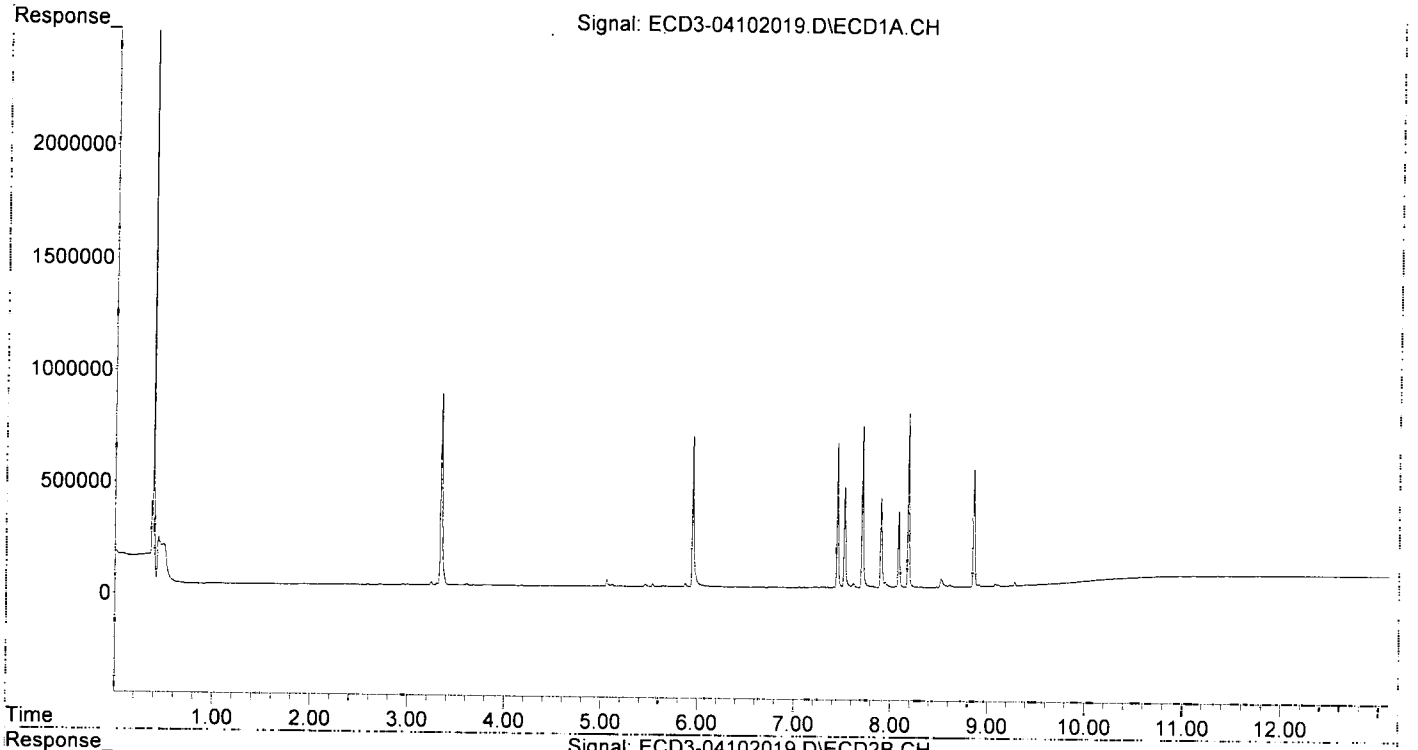
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.533f	6.080	12101	11703	0.082	1884.011 #
22) S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	Aldrin	0.000	7.659	0	6496	N.D.	0.049 #
8)	Heptachlo...	7.522	8.114f	448996	3780	2.871	0.032 #
9)	trans-Chl...	7.617	8.216	18264	395444	0.116	3.279 #
10)	cis-Chlor...	7.705	8.331	722033	30767	4.600	0.266 #
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13)	Dieldrin	0.000	8.591	0	342154	N.D.	2.857 #
14)	Endrin	8.181f	8.817	779953	240393	6.322	2.781 #
15)	4,4'-DDD	8.181	8.857	779953	594209	6.424	6.297
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18)	Endrin Al...	8.609	9.202	9586	7224	BelowCal	3407.118
19)	Endosulfa...	8.914	9.394	8716	5554	0.072	0.066
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21)	Endrin Ke...	9.111	9.790	5899	369585	0.041	3.863 #
23)	Hexachlor...	3.342	3.736	857802	848292	4.798	4.977
24)	Hexachlor...	5.947	6.532	674330	553413	4.859	4.844
25)	Oxychlordane	7.447	8.010	646772	490301	4.797	4.756
26)	2,4'-DDE	7.522	8.216	448996	395444	4.788	4.891
27)	trans-Non...	7.705	8.286	722033	557194	4.836	4.840
28)	2,4'-DDD	7.899	8.591	402442	342154	4.726	4.855
29)	2,4'-DDT	8.082	8.817	343961	240393	4.569	4.482
30)	cis-Nonac...	8.181	8.857	779953	594209	4.883	4.882
31)	Mirex	8.858	9.790	521342	369585	4.900	5.050
32)	Chlordane...	7.617	8.216	18264	395444	1.035	27.334 #
33)	Chlordane...	7.705	8.331	722033	30767	34.844	2.489 #
34)	Chlordane...	0.000	9.009	0	36078	N.D.	5.691 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.705f	8.591f	722033	342154	867.396	305.500 #
37)	Toxaphene...	7.946f	0.000	23548	0	15.627	N.D. #
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39)	Toxaphene...	8.521	9.009	38451	36078	7.701	1.492 #
40)	Toxaphene...	0.000	9.202	0	7224	N.D.	0.725 #
41)	Toxaphene...	8.858	0.000	521342	0	171.865	N.D. #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

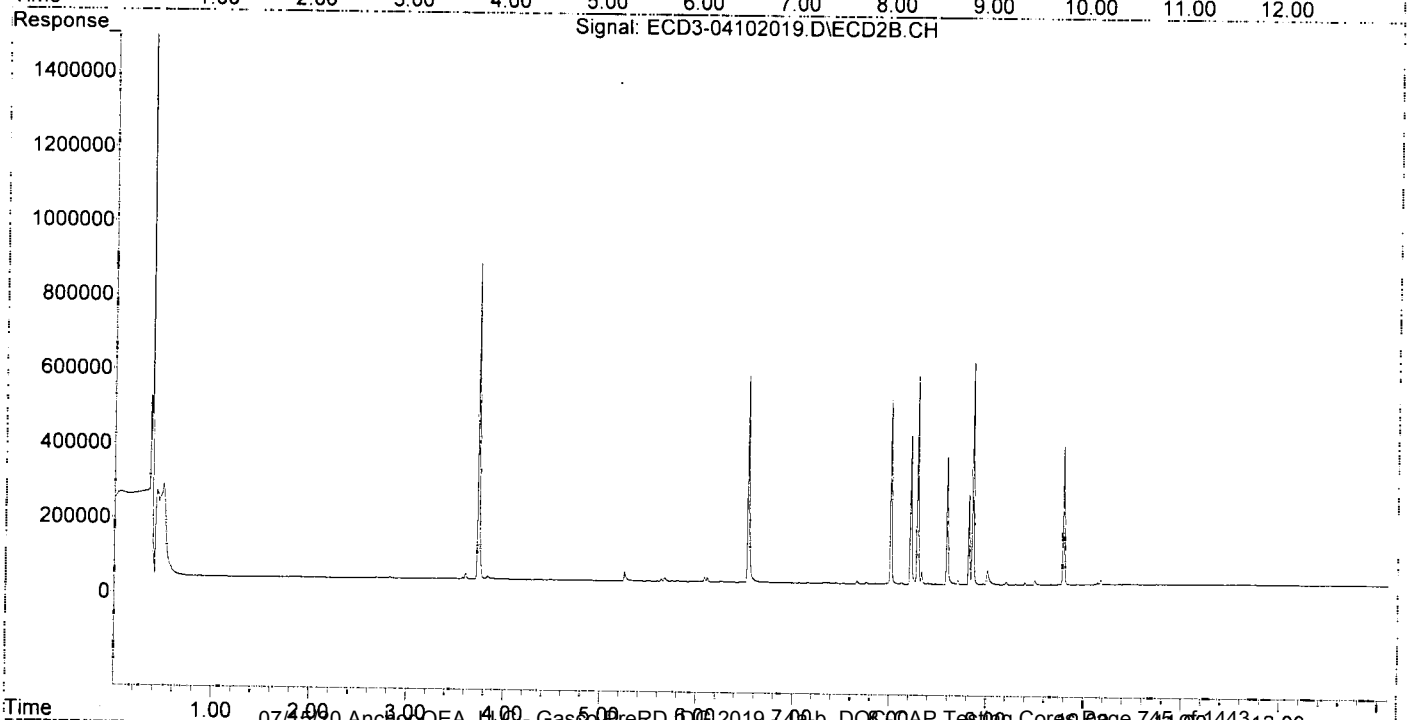
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:23
Operator : MJB
Sample : 0D10031-CALD
Misc : A20C355, 9-42 5 ppb
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:21 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:40
Operator : MJB
Sample : 0D10031-CALE
Misc : A20C356, 9-42 10 ppb
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:34 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 4/13/20

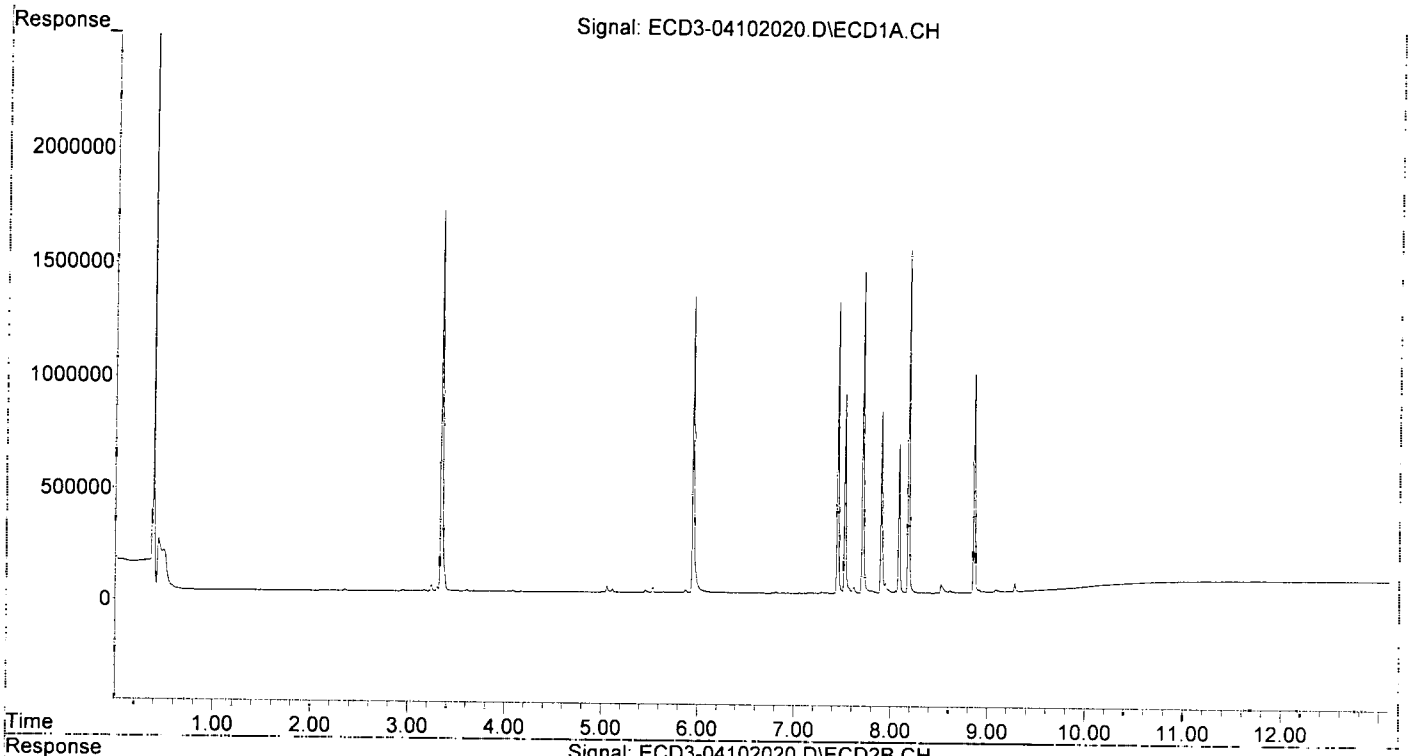
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.533f	6.080	22207	9206	0.150	1884.033	#
22) S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.810	7.372	5813	3957	0.036	0.035	
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)	Aldrin	0.000	7.660	0	5207	N.D.	0.039	#
8)	Heptachlo...	7.522	8.116f	889087	7448	5.685	0.063	#
9)	trans-Chl...	7.617	8.217	26327	776105	0.167	6.435	#
10)	cis-Chlor...	7.705	8.332	1431403	56624	9.119	0.489	#
11)	Endosulfa...	7.815	8.395	6196	5549	0.043	0.052	
12)	4,4'-DDE	7.795f	0.000	6661	0	0.046	N.D.	#
13)	Dieldrin	0.000	8.592	0	665503	N.D.	5.558	#
14)	Endrin	8.181f	8.818	1524562	472159	12.358	5.462	#
15)	4,4'-DDD	8.181	8.858	1524562	1133487	12.558	12.012	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.611	9.203	9119	6089	BelowCal	3407.132	
19)	Endosulfa...	8.913	9.395	9161	5052	0.076	0.060	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.111	9.790	5927	672336	0.041	7.027	#
23)	Hexachlor...	3.342	3.736	1689587	1632647	9.629	9.828	
24)	Hexachlor...	5.947	6.532	1319038	1101770	9.686	9.908	
25)	Oxychlordane	7.447	8.011	1300026	992994	9.839	9.873	
26)	2,4'-DDE	7.522	8.217	889087	776105	9.646	9.845	
27)	trans-Non...	7.705	8.287	1431403	1088724	9.788	9.692	
28)	2,4'-DDD	7.899	8.592	809760	665503	9.727	9.733	
29)	2,4'-DDT	8.082	8.818	665398	472159	8.839	8.802	
30)	cis-Nonac...	8.181	8.858	1524562	1133487	9.740	9.544	
31)	Mirex	8.858	9.790	976519	672336	9.508	9.538	
32)	Chlordane...	7.617	8.217	26327	776105	1.492	53.646	#
33)	Chlordane...	7.705	8.332	1431403	56624	69.076	4.581	#
34)	Chlordane...	0.000	9.009	0	34770	N.D.	5.327	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.705f	8.592f	1431403	665503	1719.578	594.209	#
37)	Toxaphene...	7.946f	0.000	44010	0	29.207	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.521	9.009	37032	34770	7.194	1.073	#
40)	Toxaphene...	0.000	9.203	0	6089	N.D.	0.097	#
41)	Toxaphene...	8.858	0.000	976519	0	321.918	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

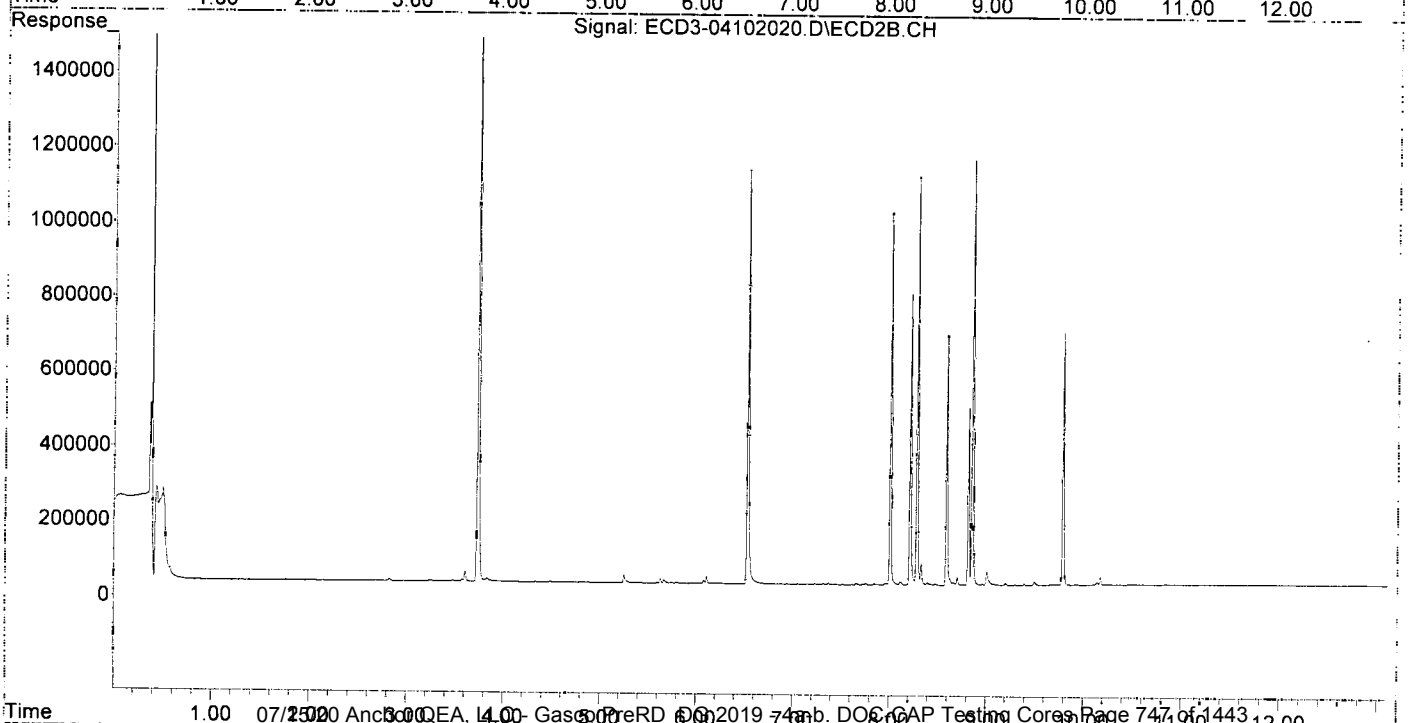
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:40
Operator : MJB
Sample : 0D10031-CALE
Misc : A20C356, 9-42 10 ppb
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:34 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:57
Operator : MJB
Sample : 0D10031-CALF
Misc : A20C357, 9-42 25 ppb
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

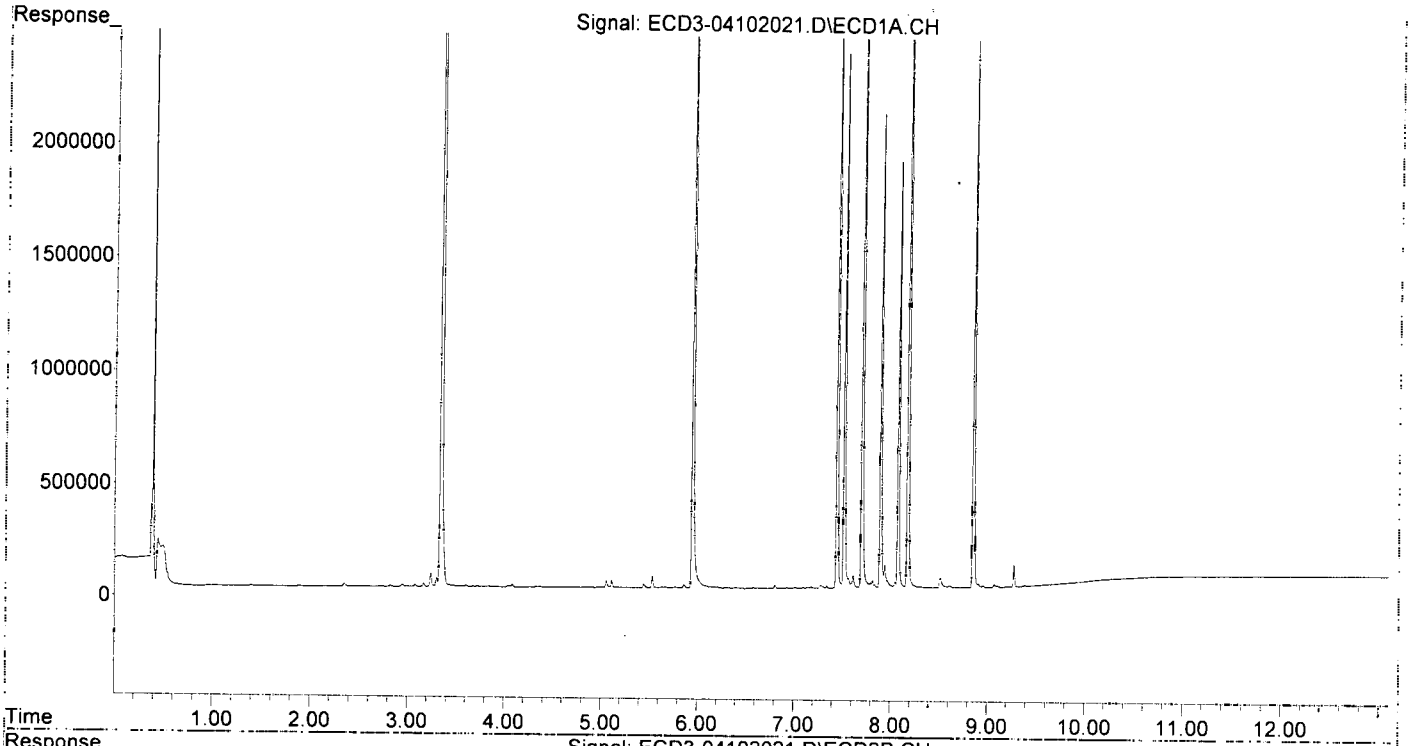
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.533f	6.074	52823	10043	0.357	1884.026	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	6.097	6.651f	4599	1728	0.023	0.011	#
3)	g-BHC	0.000	7.030f	0	1206	N.D.	0.009	#
4)	b-BHC	0.000	7.030f	0	1206	N.D.	0.020	#
5)	Heptachlor	6.807	7.371	15623	10808	0.095	0.095	
6)	d-BHC	0.000	7.317	0	2799	N.D.	0.023	#
7)	Aldrin	0.000	7.656	0	8817	N.D.	0.066	#
8)	Heptachlo...	7.519	8.114f	2370241	17721	15.157	0.151	#
9)	trans-Chl...	7.615	8.215	58779	1938260	0.374	16.071	#
10)	cis-Chlor...	7.704	8.330	3612570	122932	23.014	1.061	#
11)	Endosulfa...	7.815	8.393	33177	9086	0.231	0.084	#
12)	4,4'-DDE	7.794f	8.475f	21658	9137	0.150	0.079	#
13)	Dieldrin	7.970	8.591	29915	1648579	0.186	13.768	#
14)	Endrin	8.179f	8.817	3931964	1331674	31.873	15.404	#
15)	4,4'-DDD	8.179f	8.856	3931964	2939943	32.387	31.155	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.610	9.201	8548	5871	BelowCal	3407.135	
19)	Endosulfa...	0.000	9.393	0	5536	N.D.	0.066	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.109	9.789	6543	1721066	0.045	17.989	#
23)	Hexachlor...	3.342	3.736	4236498	3836415	24.564	23.775	
24)	Hexachlor...	5.948	6.532	3410831	2741174	25.265	25.190	
25)	Oxychlordane	7.446	8.009	3280717	2462430	25.099	24.924	
26)	2,4'-DDE	7.519	8.215	2370241	1938260	25.890	25.115	
27)	trans-Non...	7.704	8.286	3612570	2768485	24.979	25.188	
28)	2,4'-DDD	7.897	8.591	2101228	1648579	25.552	24.658	
29)	2,4'-DDT	8.081	8.817	1890884	1331674	25.118	24.826	
30)	cis-Nonac...	8.179	8.856	3931964	2939943	25.386	25.287	
31)	Mirex	8.856	9.789	2445934	1721066	24.423	25.174	
32)	Chlordane...	7.615	8.215	58779	1938260	3.330	133.976	#
33)	Chlordane...	7.704	8.330	3612570	122932	174.335	9.945	#
34)	Chlordane...	0.000	9.005	0	36798	N.D.	5.891	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.704	8.591f	3612570	1648579	4339.864	1471.970	#
37)	Toxaphene...	7.970	0.000	29915	0	19.853	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.515f	9.005	44025	36798	9.693	1.723	#
40)	Toxaphene...	0.000	9.201	0	5871	N.D.	BelowCal	
41)	Toxaphene...	8.856	0.000	2445934	0	806.324	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

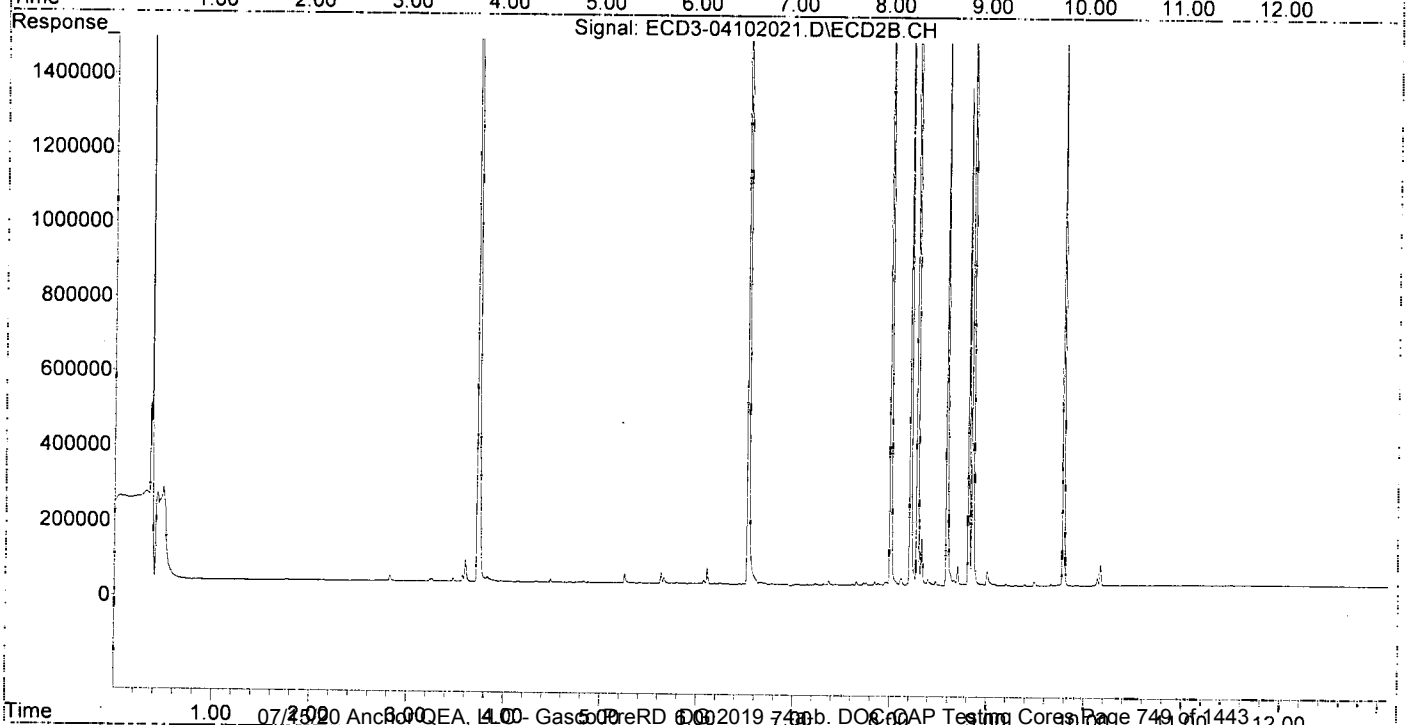
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:57
Operator : MJB
Sample : 0D10031-CALF
Misc : A20C357, 9-42 25 ppb
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:14
Operator : MJB
Sample : 0D10031-CALG
Misc : A20C358, 9-42 50 ppb
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:57 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 9/13/20

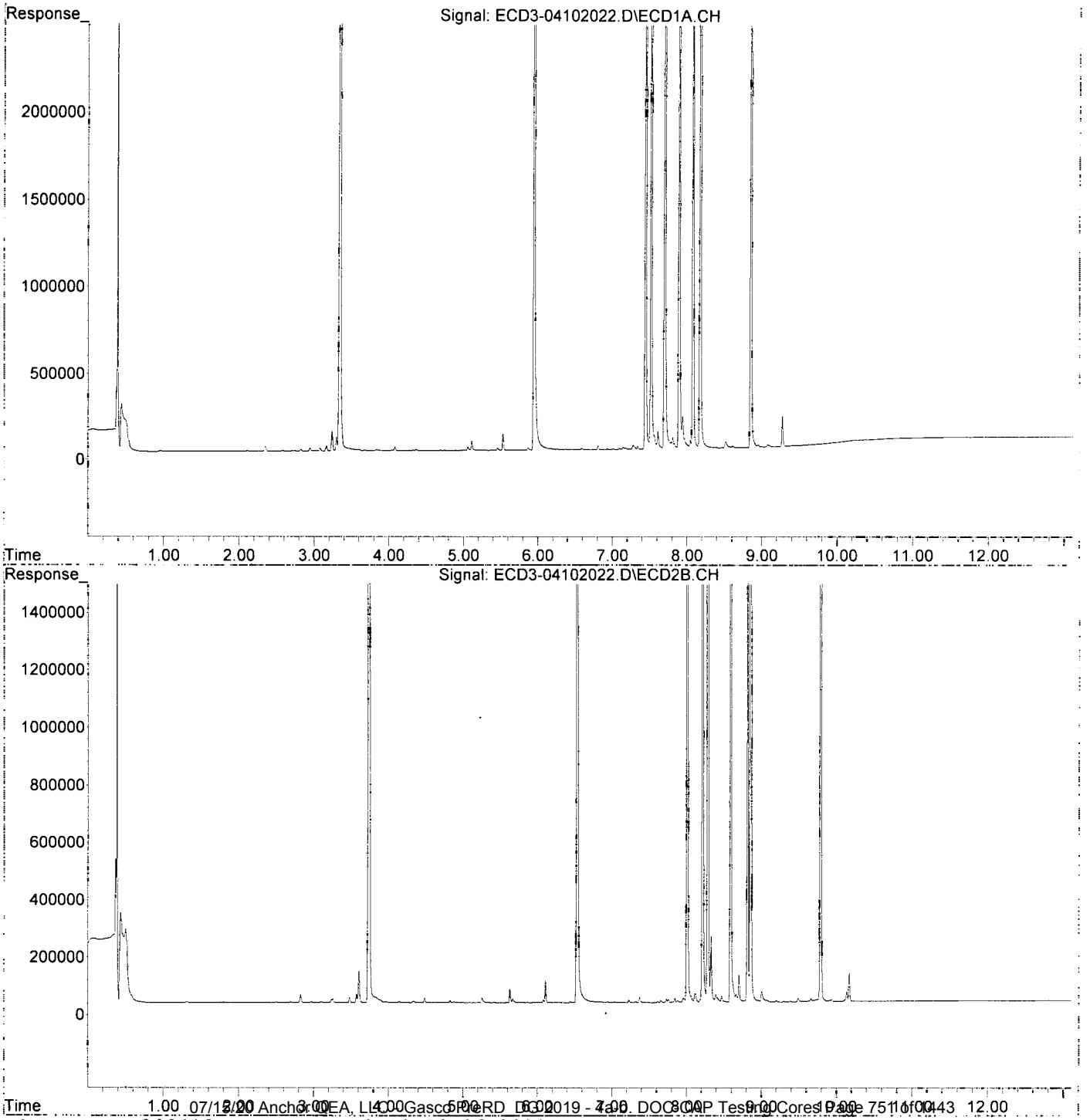
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.533f	6.080	94172	9796	0.636	1884.028	#
22) S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.810	7.371	23336	18527	0.143	0.164	
6)	d-BHC	6.588f	7.319	8010	3524	0.057	0.029	#
7)	Aldrin	0.000	7.658	0	8471	N.D.	0.064	#
8)	Heptachlo...	7.520	8.114f	4518917	30334	28.896	0.258	#
9)	trans-Chl...	7.615	8.215	101252	3659885	0.643	30.347	#
10)	cis-Chlor...	7.703	8.331	6909845	229920	44.020	1.985	#
11)	Endosulfa...	7.814	8.393	64035	26052	0.446	0.242	#
12)	4,4'-DDE	7.795f	8.414f	36993	15443	0.256	0.134	#
13)	Dieldrin	7.970	8.591	52423	3205195	0.326	26.767	#
14)	Endrin	8.180f	8.817	7558026	2644918	61.266	30.595	#
15)	4,4'-DDD	8.180f	8.857	7558026	5676373	62.255	60.153	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.615	9.203	10041	4822	BelowCal	3407.148	
19)	Endosulfa...	0.000	9.393	0	3826	N.D.	0.045	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.093	9.789	11953	3205930	0.083	33.508	#
23)	Hexachlor...	3.342	3.736	8735674	7661028	51.490	49.228	
24)	Hexachlor...	5.948	6.532	6661991	5176901	49.234	48.306	
25)	Oxychlordane	7.446	8.010	6240780	4745169	47.825	48.589	
26)	2,4'-DDE	7.520	8.215	4518917	3659885	49.172	48.154	
27)	trans-Non...	7.703	8.286	6909845	5248360	47.853	48.536	
28)	2,4'-DDD	7.897	8.591	4001953	3205195	48.766	48.587	
29)	2,4'-DDT	8.081	8.817	3806076	2644918	50.559	49.309	
30)	cis-Nonac...	8.180	8.857	7558026	5676373	48.799	49.519	
31)	Mirex	8.856	9.789	4722341	3205930	47.654	47.553	
32)	Chlordane...	7.615	8.215	101252	3659885	5.736	252.978	#
33)	Chlordane...	7.703	8.331	6909845	229920	333.454	18.600	#
34)	Chlordane...	0.000	9.008	0	32789	N.D.	4.777	#
35)	Chlordane...	3.836	0.000	5318	0	NoCal	N.D.	
36)	Toxaphene...	7.703	8.591f	6909845	3205195	8300.958	2861.829	#
37)	Toxaphene...	7.970	0.000	52423	0	34.790	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.521	9.008	36713	32789	7.080	0.438	#
40)	Toxaphene...	0.000	9.203	0	4822	N.D.	BelowCal	
41)	Toxaphene...	8.856	0.000	4722341	0	1556.761	N.D.	#
42)	Toxaphene...	3.836	0.000	5318	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:14
Operator : MJB
Sample : 0D10031-CALG
Misc : A20C358, 9-42 50 ppb
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:57 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:31
Operator : MJB
Sample : 0D10031-CALH
Misc : A20C359, 9-42 100 ppb
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:44:09 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

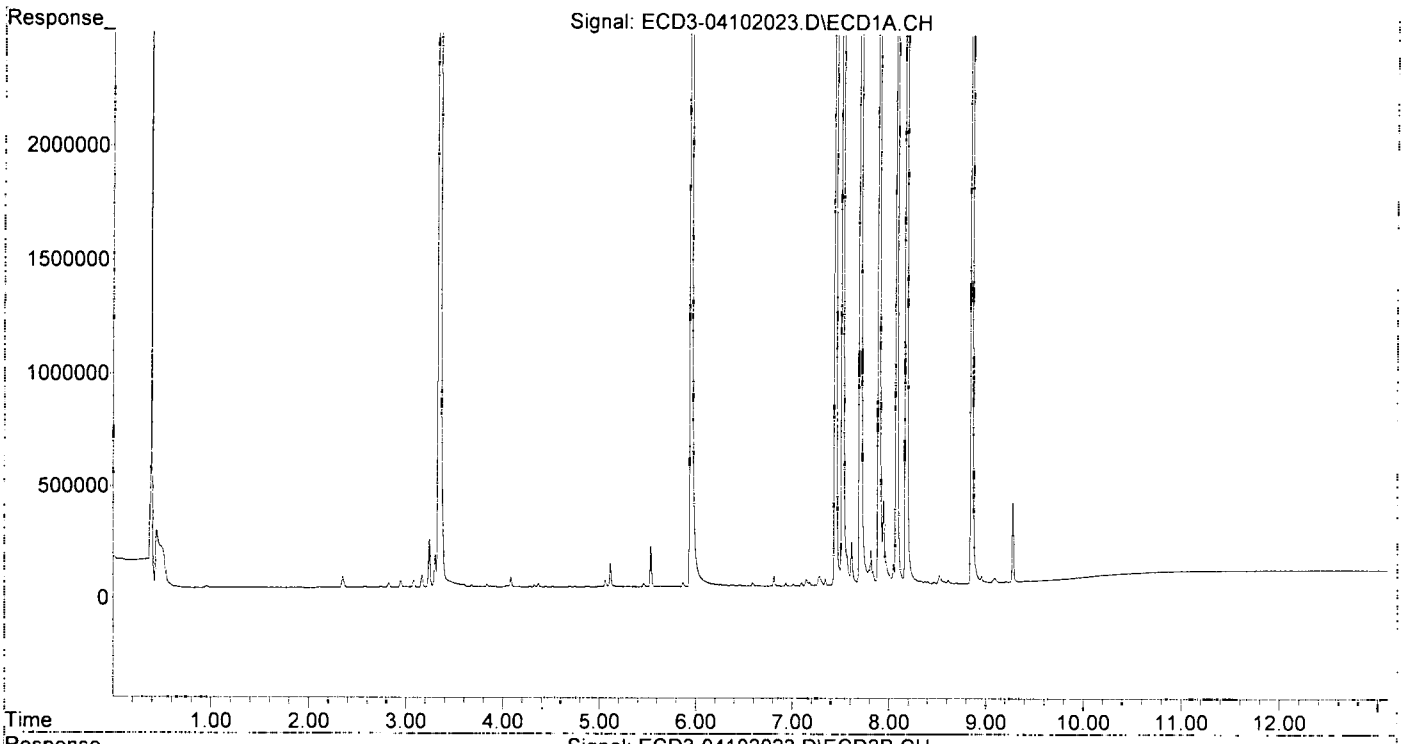
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.533f	6.080	186316	7775	1.258	1884.046	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.809	7.371	42400	33935	0.259	0.300	
6)	d-BHC	6.587f	7.318	12824	4598	0.091	0.038	#
7)	Aldrin	0.000	7.612f	0	7521	N.D.	0.057	#
8)	Heptachlo...	7.519	8.113f	9420136	48794	60.238	0.415	#
9)	trans-Chl...	7.614	8.214	192566	7319258	1.224	60.689	#
10)	cis-Chlor...	7.703	8.330	14841913	457744	94.553	3.952	#
11)	Endosulfa...	7.813	8.392	153219	45418	1.068	0.422	#
12)	4,4'-DDE	7.793f	8.413f	67330	28362	0.467	0.246	#
13)	Dieldrin	7.970	8.591	103627	6389450	0.645	53.360	#
14)	Endrin	8.179f	8.817	15616314	5426818	126.588	62.774	#
15)	4,4'-DDD	8.179f	8.857	15616314	11378214	128.630	120.575	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	8.398	9.071	9396	8269	0.202	0.222	
18)	Endrin Al...	8.616	9.204	14755	6407	BelowCal	3407.128	
19)	Endosulfa...	0.000	9.393	0	3993	N.D.	0.047	#
20)	Methoxychlor	0.000	9.532f	0	1853	N.D.	0.116	#
21)	Endrin Ke...	9.094	9.789	19703	6667267	0.137	69.686	#
23)	Hexachlor...	3.342	3.736	17207142	14843032	104.257	102.509	
24)	Hexachlor...	5.948	6.532	13905902	10342257	101.618	99.096	
25)	Oxychlordane	7.446	8.009	13063239	9423897	99.850	98.227	
26)	2,4'-DDE	7.519	8.214	9420136	7319258	101.092	98.934	
27)	trans-Non...	7.703	8.285	14841913	10461112	102.435	99.641	
28)	2,4'-DDD	7.896	8.591	8200834	6389450	99.723	98.738	
29)	2,4'-DDT	8.081	8.817	7906836	5426818	105.033	101.172	
30)	cis-Nonac...	8.179	8.857	15616314	11378214	100.187	101.619	
31)	Mirex	8.856	9.789	9796794	6667267	100.001	100.875	
32)	Chlordane...	7.614	8.214	192566	7319258	10.910	505.920	#
33)	Chlordane...	7.703	8.330	14841913	457744	716.238	37.030	#
34)	Chlordane...	0.000	9.009	0	33465	N.D.	4.965	#
35)	Chlordane...	3.837	0.000	10557	0	NoCal	N.D.	
36)	Toxaphene...	7.703	8.591f	14841913	6389450	17829.938	5704.962	#
37)	Toxaphene...	7.970	0.000	103627	0	68.772	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.523	9.009	34901	33465	6.432	0.655	#
40)	Toxaphene...	0.000	9.204	0	6407	N.D.	0.273	#
41)	Toxaphene...	8.856	0.000	9796794	0	3229.600	N.D.	#
42)	Toxaphene...	3.837	0.000	10557	0	NoCal	N.D.	

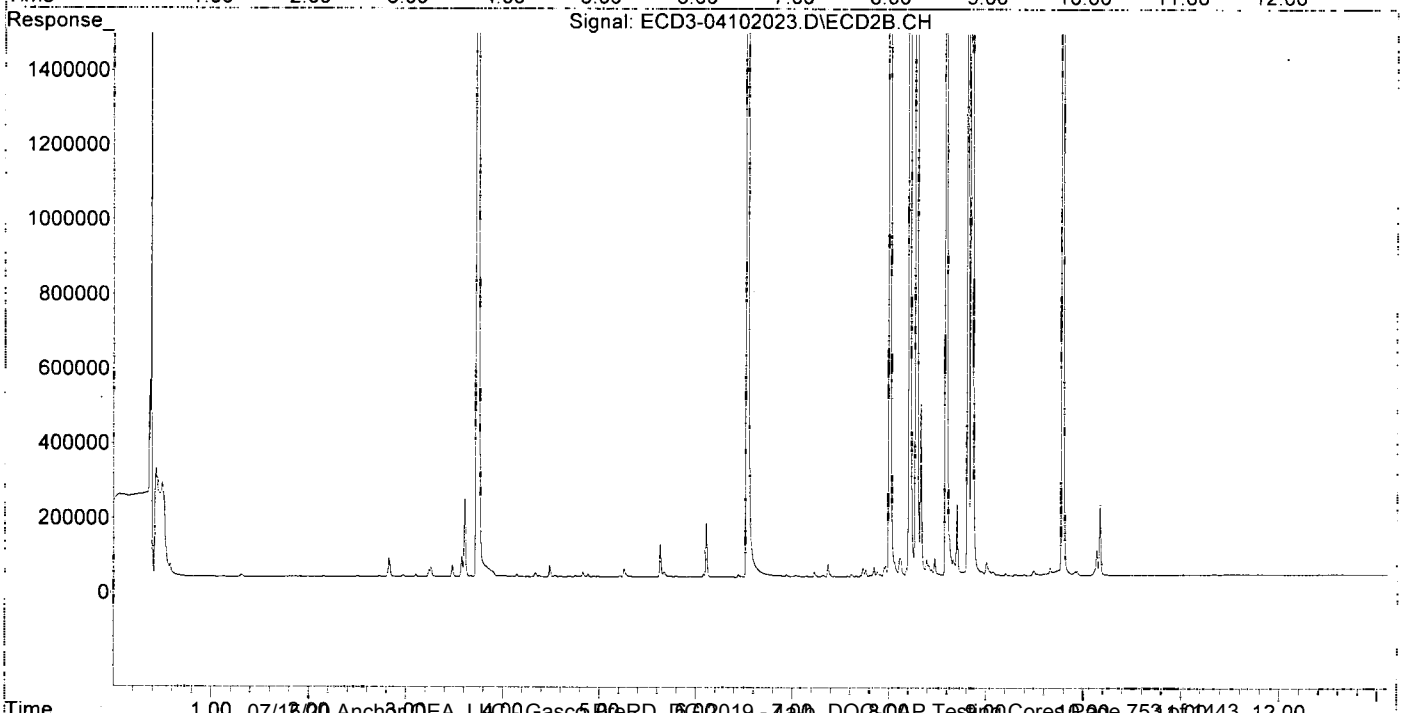
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:31
Operator : MJB
Sample : 0D10031-CALH
Misc : A20C359, 9-42 100 ppb
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:44:09 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:49
Operator : MJB
Sample : 0D10031-CALI
Misc : A20C352, 9-42 200 ppb
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:44:23 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

WB 4/13/20

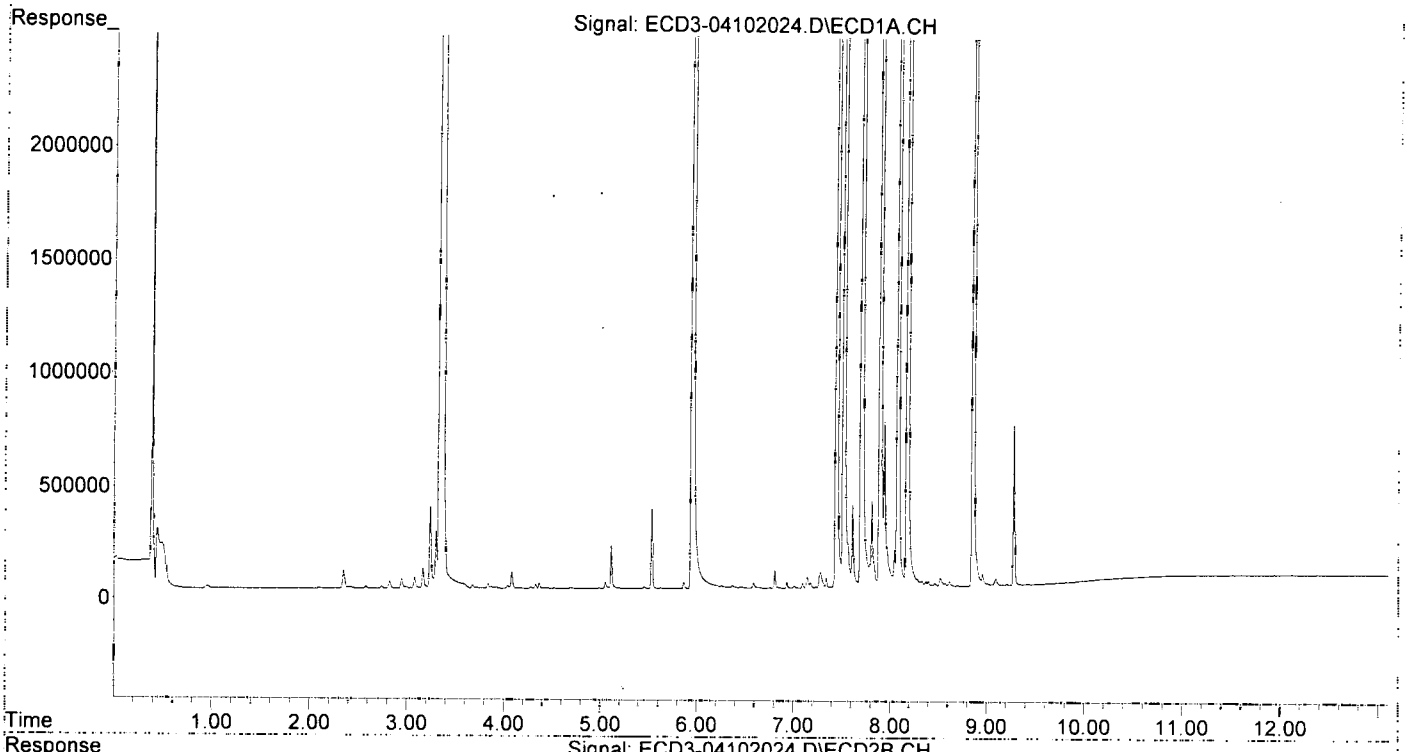
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.534f	6.079	359345	10141	2.426	1884.025	#
22)	S DCBP (S)	9.809	0.000	2232	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.369f	0.000	8854	0	0.051	N.D.	#
4)	b-BHC	0.000	7.033f	0	2985	N.D.	0.049	#
5)	Heptachlor	6.809	7.371	79067	59991	0.483	0.530	
6)	d-BHC	6.587f	7.319	21045	6630	0.150	0.054	#
7)	Aldrin	0.000	7.659	0	5955	N.D.	0.045	#
8)	Heptachlo...	7.519	8.060f	19110459	65627	122.203	0.558	#
9)	trans-Chl...	7.614	8.215	366865	14263135	2.331	118.266	#
10)	cis-Chlor...	7.703	8.331	29240286	822059	186.280	7.097	#
11)	Endosulfa...	7.813	8.393	387782	68738	2.702	0.639	#
12)	4,4'-DDE	7.792	8.444	106549	50715	0.739	0.440	#
13)	Dieldrin	7.969	8.591	185937	12705250	1.157	106.104	#
14)	Endrin	8.179f	8.817	31802143	11384733	257.793	131.692	#
15)	4,4'-DDD	8.179f	8.856	31802143	21372951	261.951	226.489	
16)	Endosulfa...	8.333	0.000	24618	0	0.203	N.D.	#
17)	4,4'-DDT	8.398	9.084	24199	13648	0.374	0.320	
18)	Endrin Al...	8.616	9.206	22531	10444	BelowCal	3407.078	
19)	Endosulfa...	0.000	9.393	0	4019	N.D.	0.048	#
20)	Methoxychlor	0.000	9.533f	0	7251	N.D.	0.326	#
21)	Endrin Ke...	9.094	9.790	30914	12929032	0.215	135.134	#
23)	Hexachlor...	3.343	3.737	30654926	25097902	194.647	200.014	
24)	Hexachlor...	5.948	6.533	27917200	20106640	199.269	202.938	
25)	Oxychlordane	7.446	8.010	26694991	18880326	202.369	203.786	
26)	2,4'-DDE	7.519	8.215	19110459	14263135	199.362	203.411	
27)	trans-Non...	7.703	8.286	29240286	20044391	199.965	202.343	
28)	2,4'-DDD	7.896	8.591	16682003	12705250	201.327	203.589	
29)	2,4'-DDT	8.081	8.817	16615671	11384733	220.720	212.245	
30)	cis-Nonac...	8.179	8.856	31802143	21372951	200.875	199.017	
31)	Mirex	8.856	9.790	19600089	12929032	203.440	201.899	
32)	Chlordane...	7.614	8.215	366865	14263135	20.785	985.893	#
33)	Chlordane...	7.703	8.331	29240286	822059	1411.071	66.502	#
34)	Chlordane...	0.000	9.009	0	34815	N.D.	5.340	#
35)	Chlordane...	3.837	0.000	19236	0	NoCal	N.D.	
36)	Toxaphene...	7.703	8.591f	29240286	12705250	35127.040	11344.164	#
37)	Toxaphene...	7.969	0.000	185937	0	123.396	N.D.	#
38)	Toxaphene...	8.333f	0.000	24618	0	7.915	N.D.	#
39)	Toxaphene...	8.521	9.009	38307	34815	7.649	1.087	#
40)	Toxaphene...	0.000	9.206	0	10444	N.D.	2.505	#
41)	Toxaphene...	8.856	9.533f	19600089	7251	6461.342	3.582	#
42)	Toxaphene...	3.837	0.000	19236	0	NoCal	N.D.	

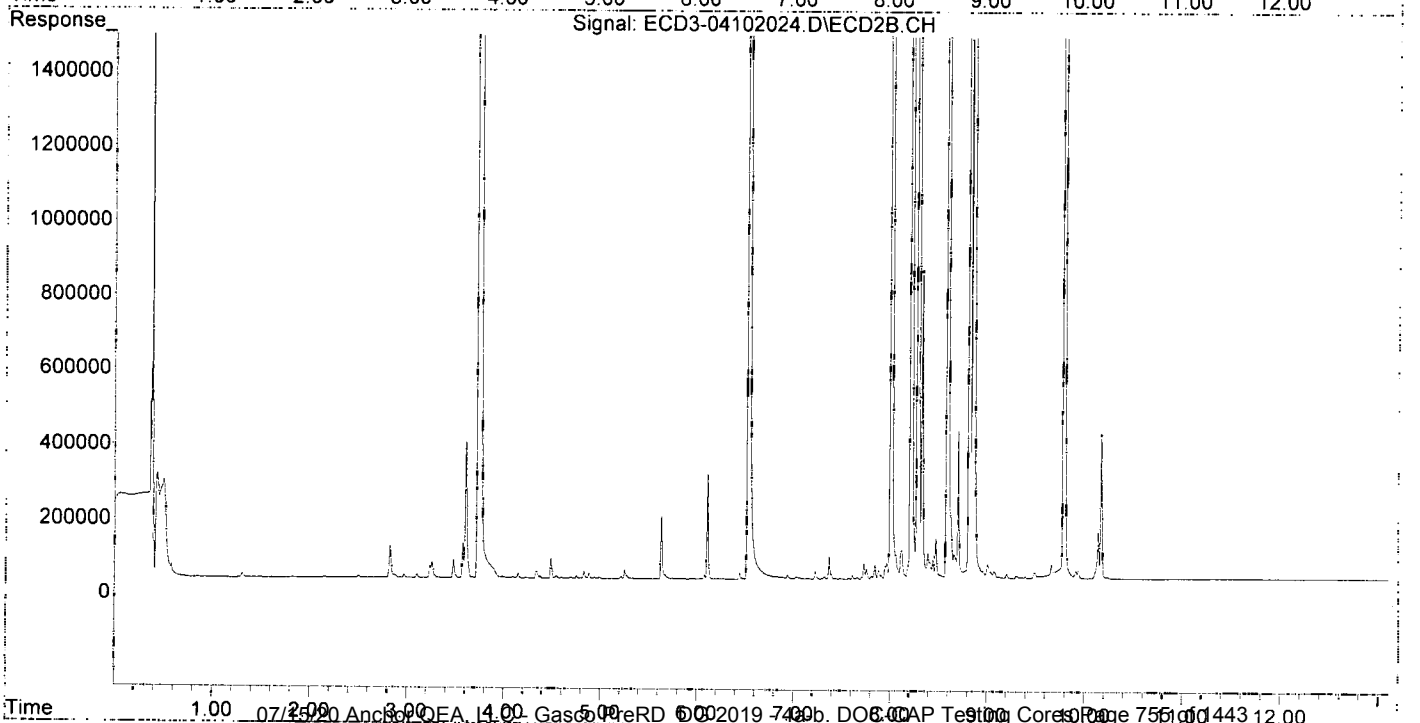
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:49
Operator : MJB
Sample : 0D10031-CALI
Misc : A20C352, 9-42 200 ppb
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:44:23 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:57
Operator : MJB
Sample : 0D10031-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:20 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

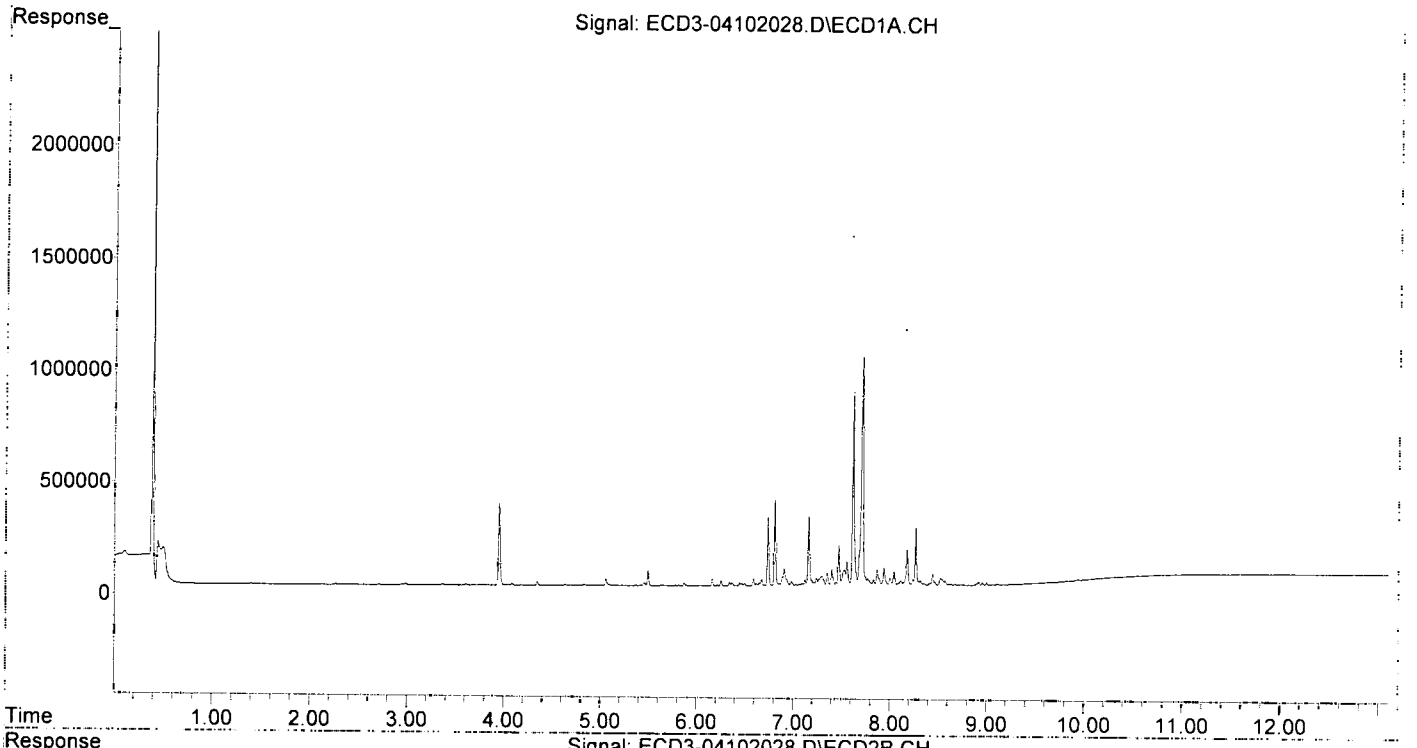
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.076	0	10952	N.D.	1884.018	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	6.698f	0	20695	N.D.	0.132	#
3)	g-BHC	6.364f	6.999	13365	11053	0.077	0.082	
4)	b-BHC	6.462	7.095f	10253	26119	0.150	0.425	#
5)	Heptachlor	6.806	7.369	385958	285923	2.357	2.526	
6)	d-BHC	6.615	0.000	8494	0	0.061	N.D.	#
7)	Aldrin	7.091f	7.674f	8759	43413	0.052	0.327	#
8)	Heptachlo...	7.525	8.099	69129	20796	0.442	0.177	#
9)	trans-Chl...	7.615	8.221	860072	734996	5.466	6.094	
10)	cis-Chlor...	7.709	8.329	1020612	633044	6.502	5.465	
11)	Endosulfa...	7.829	0.000	21856	0	0.152	N.D.	#
12)	4,4'-DDE	7.768	8.426	28530	19498	0.198	0.169	
13)	Dieldrin	7.999	8.583	26997	37380	0.168	0.312	#
14)	Endrin	8.178f	8.809	156980	17989	1.273	0.208	#
15)	4,4'-DDD	8.178f	8.856	156980	128038	1.293	1.357	
16)	Endosulfa...	8.315	8.971	14183	15185	0.117	0.166	#
17)	4,4'-DDT	0.000	9.065	0	17153	N.D.	0.385	#
18)	Endrin Al...	8.569f	9.231f	16338	37801	BelowCal	0.229	
19)	Endosulfa...	8.914	9.420f	14875	2829	0.123	0.034	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	0.000	9.795	0	10171	N.D.	0.106	#
23)	Hexachlor...	3.364f	0.000	5064	0	2108.673	N.D.	#
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)	Oxychlordane	7.441	8.022	13665	10995	BelowCal	3277.626	
26)	2,4'-DDE	7.525	8.221	69129	734996	0.583	9.309	#
27)	trans-Non...	7.709	8.285	1020612	545529	6.921	4.734	
28)	2,4'-DDD	7.867f	8.583	70128	37380	0.644	0.271	#
29)	2,4'-DDT	8.110f	8.809	16994	17989	0.226	0.335	#
30)	cis-Nonac...	8.178	8.856	156980	128038	0.814	0.866	
31)	Mirex	8.893f	9.795	7170	10171	7125.812	3567.379	#
32)	Chlordane...	7.615	8.221	860072	734996	48.728	50.804	
33)	Chlordane...	7.709	8.329	1020612	633044	49.252	51.212	✓
34)	Chlordane...	8.266	8.997	252424	195537	47.442	50.011	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.709f	8.583f	1020612	37380	1226.085	33.376	#
37)	Toxaphene...	7.999	8.912	26997	22357	17.916	16.390	
38)	Toxaphene...	8.315	8.948	14183	17018	4.560	7.841	#
39)	Toxaphene...	8.541	8.997	23503	195537	2.356	52.479	#
40)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

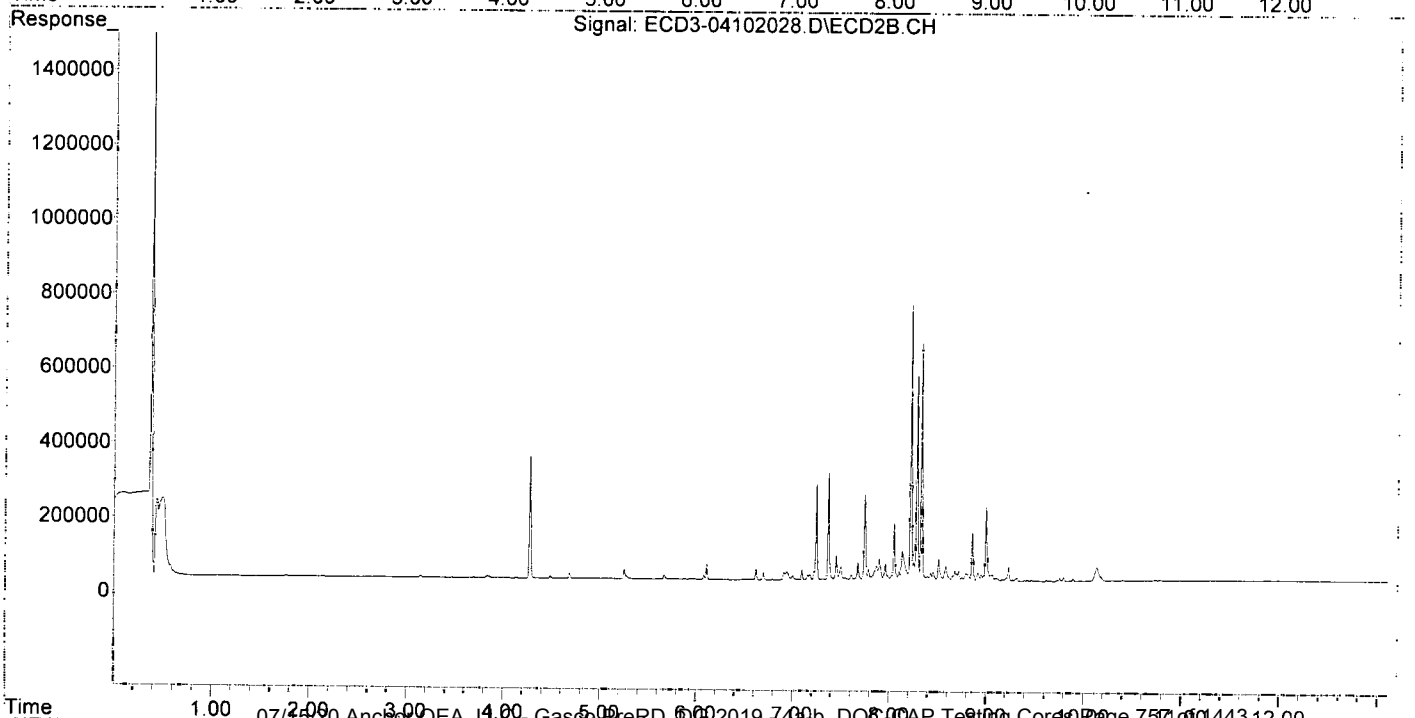
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:57
Operator : MJB
Sample : 0D10031-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:20 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:14
Operator : MJB
Sample : 0D10031-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:43 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

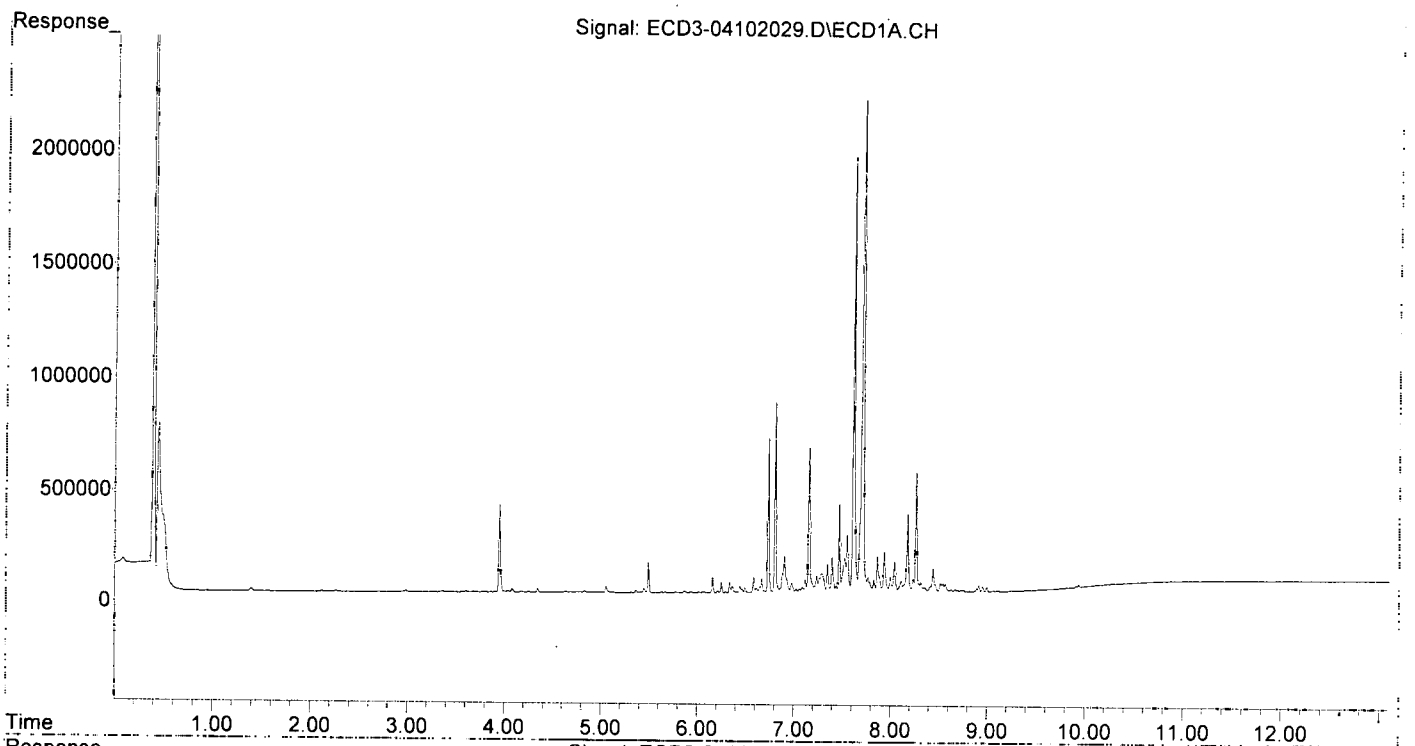
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.073	0	7934	N.D.	1884.044	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
		Target Compounds							
2)		a-BHC	0.000	6.698f	0	42321	N.D.	0.270	#
3)		g-BHC	6.363f	6.998	28128	23774	0.163	0.176	
4)		b-BHC	6.460	7.094f	15570	55757	0.228	0.908	#
5)		Heptachlor	6.805	7.368	844473	610304	5.157	5.391	
6)		d-BHC	6.612	0.000	18316	0	0.130	N.D.	#
7)		Aldrin	7.056	7.673f	9594	96434	0.057	0.726	#
8)		Heptachlo...	7.525	8.098	145160	49018	0.928	0.416	#
9)		trans-Chl...	7.613	8.220	1921243	1636710	12.209	13.571	
10)		cis-Chlor...	7.709	8.329	2178319	1360439	13.877	11.745	
11)		Endosulfa...	7.829	8.393	45473	23918	0.317	0.222	
12)		4,4'-DDE	7.768	8.425	56968	44606	0.395	0.387	
13)		Dieldrin	7.999	8.582	58485	86626	0.364	0.723	#
14)		Endrin	8.177f	8.808	336239	37325	2.726	0.432	#
15)		4,4'-DDD	8.177f	8.856	336239	269817	2.770	2.859	
16)		Endosulfa...	8.313	8.971	24470	31602	0.202	0.345	#
17)		4,4'-DDT	0.000	9.093	0	13271	N.D.	0.314	#
18)		Endrin Al...	8.628f	9.230f	8836	73697	BelowCal	0.676	
19)		Endosulfa...	8.914	9.421f	26753	7053	0.222	0.084	#
20)		Methoxychlor	8.728	0.000	7962	0	0.232	N.D.	#
21)		Endrin Ke...	0.000	9.795	0	17408	N.D.	0.182	#
23)		Hexachlor...	3.362f	0.000	5396	0	2108.671	N.D.	#
24)		Hexachlor...	0.000	6.504f	0	6137	N.D.	2197.572	#
25)		Oxychlordane	7.438	8.021	22321	29983	BelowCal	0.084	
26)		2,4'-DDE	7.525	8.220	145160	1636710	1.426	21.132	#
27)		trans-Non...	7.709	8.284	2178319	1223570	14.995	10.927	
28)		2,4'-DDD	7.865f	8.582	152125	86626	1.651	1.011	
29)		2,4'-DDT	8.109f	8.808	37830	37325	0.503	0.696	
30)		cis-Nonac...	8.177	8.856	336239	269817	1.986	2.086	
31)		Mirex	8.891f	9.795	15556	17408	7125.727	3567.272	#
32)		Chlordane...	7.613	8.220	1921243	1636710	108.849	113.132	
33)		Chlordane...	7.709	8.329	2178319	1360439	105.121	110.056	
34)		Chlordane...	8.265	8.997	525276	395685	98.723	105.631	
35)		Chlordane...	0.000	3.829f	0	6016	N.D.	NoCal	
36)		Toxaphene...	7.709f	8.582f	2178319	86626	2616.865	77.346	#
37)		Toxaphene...	7.999	8.912	58485	45413	38.813	33.292	
38)		Toxaphene...	8.313	8.948	24470	35704	7.867	16.451	#
39)		Toxaphene...	8.543	8.997	32167	395685	5.454	116.212	#
40)		Toxaphene...	8.755	9.168	9097	8266	3.863	1.301	#
41)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)		Toxaphene...	0.000	3.829f	0	6016	N.D.	NoCal	

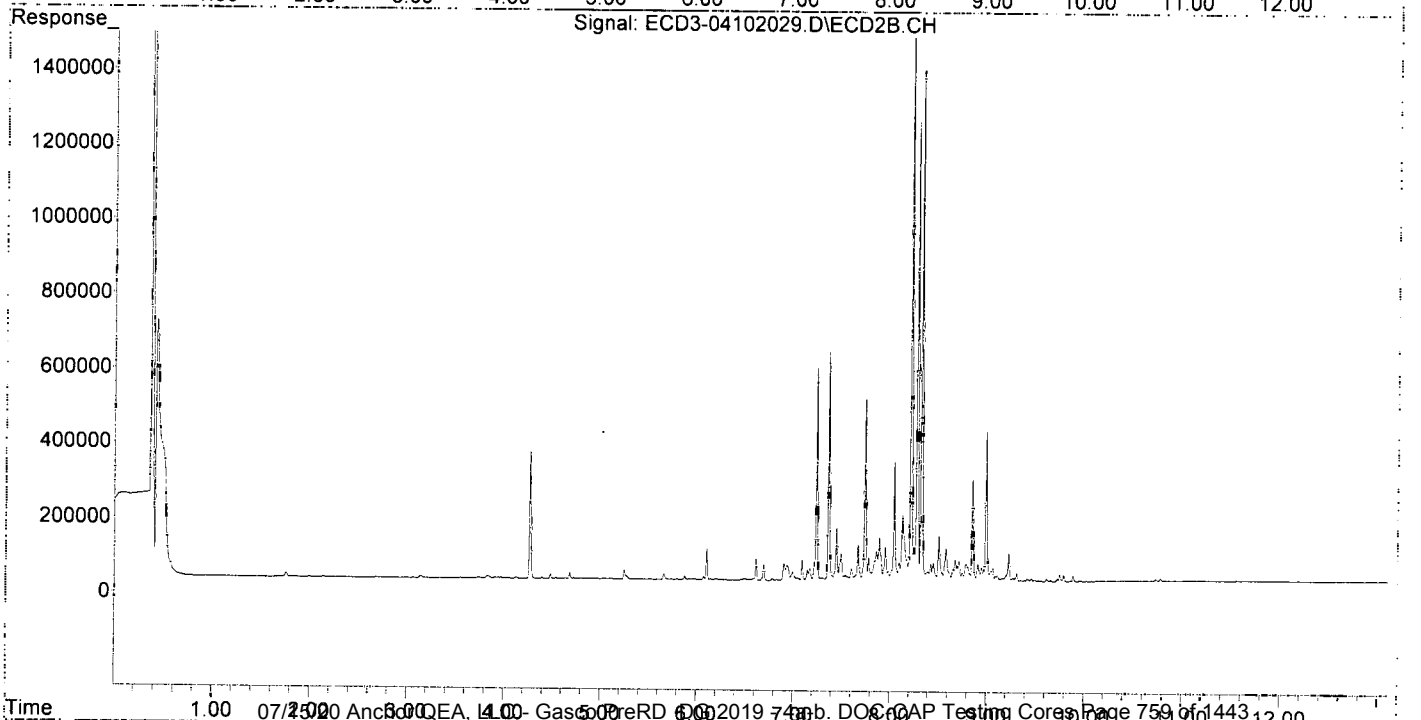
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:14
Operator : MJB
Sample : 0D10031-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:43 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





07/2020 Ancillary QEA, Inc. - GasoPreRD_6.0.2019 7.0b. DOC CAP Testing Cores Page 759 of 1443

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:31
Operator : MJB
Sample : 0D10031-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

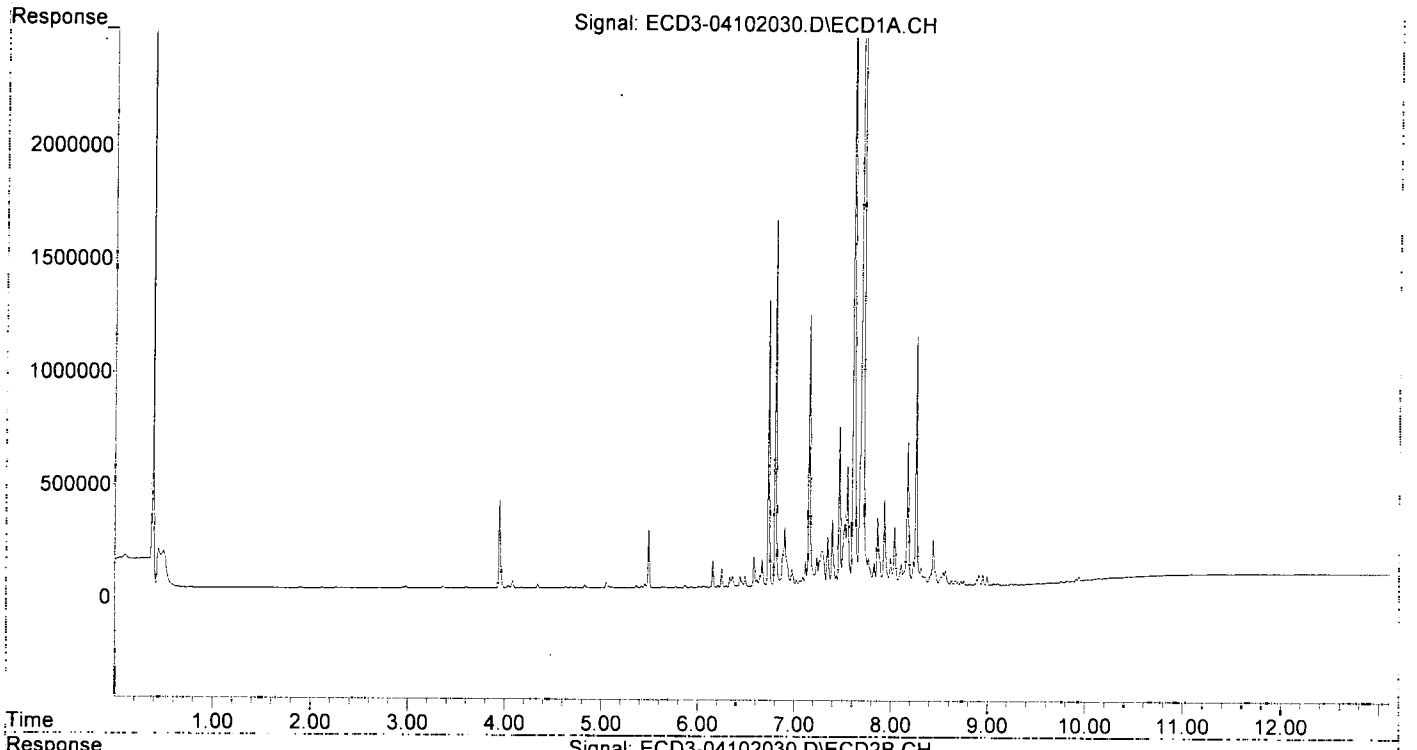
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.077	0	9896	N.D.	1884.027	#
22)	S	DCBP (S)	9.817	0.000	5574	0	BelowCal	N.D.	
		Target Compounds							
2)		a-BHC	0.000	6.698f	0	70259	N.D.	0.448	#
3)		g-BHC	6.363f	6.999	47790	41587	0.277	0.309	
4)		b-BHC	6.494f	7.095f	48193	100079	0.706	1.630	#
5)		Heptachlor	6.806	7.369	1629422	1220796	9.951	10.784	
6)		d-BHC	6.614	0.000	31948	0	0.228	N.D.	#
7)		Aldrin	7.057	7.646	27506	21053	0.164	0.158	
8)		Heptachlo...	7.524	8.099	277895	85302	1.777	0.725	#
9)		trans-Chl...	7.613	8.220	3546473	2904795	22.538	24.086	
10)		cis-Chlor...	7.707	8.328	4127220	2508298	26.293	21.655	
11)		Endosulfa...	7.828	8.397	101793	42007	0.709	0.391	#
12)		4,4'-DDE	7.768	8.425	124078	77661	0.860	0.674	
13)		Dieldrin	7.998	8.582	123888	177172	0.771	1.480	#
14)		Endrin	8.177f	8.808	637879	65729	5.171	0.760	#
15)		4,4'-DDD	8.177f	8.856	637879	502401	5.254	5.324	
16)		Endosulfa...	8.314	8.971	79708	56157	0.658	0.612	
17)		4,4'-DDT	0.000	9.094	0	21615	N.D.	0.466	#
18)		Endrin Al...	8.628f	9.230f	22853	141835	BelowCal	1.525	
19)		Endosulfa...	8.913	9.420f	49154	12954	0.408	0.154	#
20)		Methoxychlor	8.728	9.531f	19063	4579	0.503	0.222	#
21)		Endrin Ke...	9.102	9.794	7213	30320	0.050	0.317	#
23)		Hexachlor...	3.363f	0.000	5994	0	2108.667	N.D.	#
24)		Hexachlor...	5.937	6.505f	3665	7964	BelowCal	2197.555	
25)		Oxychlordane	7.438	8.022	47827	49280	0.170	0.280	#
26)		2,4'-DDE	7.524	8.220	277895	2904795	2.896	37.986	#
27)		trans-Non...	7.707	8.284	4127220	2258951	28.557	20.461	
28)		2,4'-DDD	7.865f	8.582	305299	177172	3.533	2.372	
29)		2,4'-DDT	8.109f	8.808	96524	65729	1.282	1.225	
30)		cis-Nonac...	8.177	8.856	637879	502401	3.956	4.090	
31)		Mirex	8.892f	9.794	29154	30320	7125.589	0.034	#
32)		Chlordane...	7.613	8.220	3546473	2904795	200.928	200.785	
33)		Chlordane...	7.707	8.328	4127220	2508298	199.170	202.914	
34)		Chlordane...	8.265	8.996	1111336	745316	208.870	202.768	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.707f	8.582f	4127220	177172	4958.126	158.192	#
37)		Toxaphene...	7.998	8.912	123888	82901	82.217	60.775	
38)		Toxaphene...	8.314	8.948	79708	64409	25.627	29.677	
39)		Toxaphene...	8.544	8.996	60255	745316	15.491	226.843	#
40)		Toxaphene...	8.755	9.170	20690	14439	8.785	4.714	#
41)		Toxaphene...	8.814f	0.000	6892	0	2.272	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

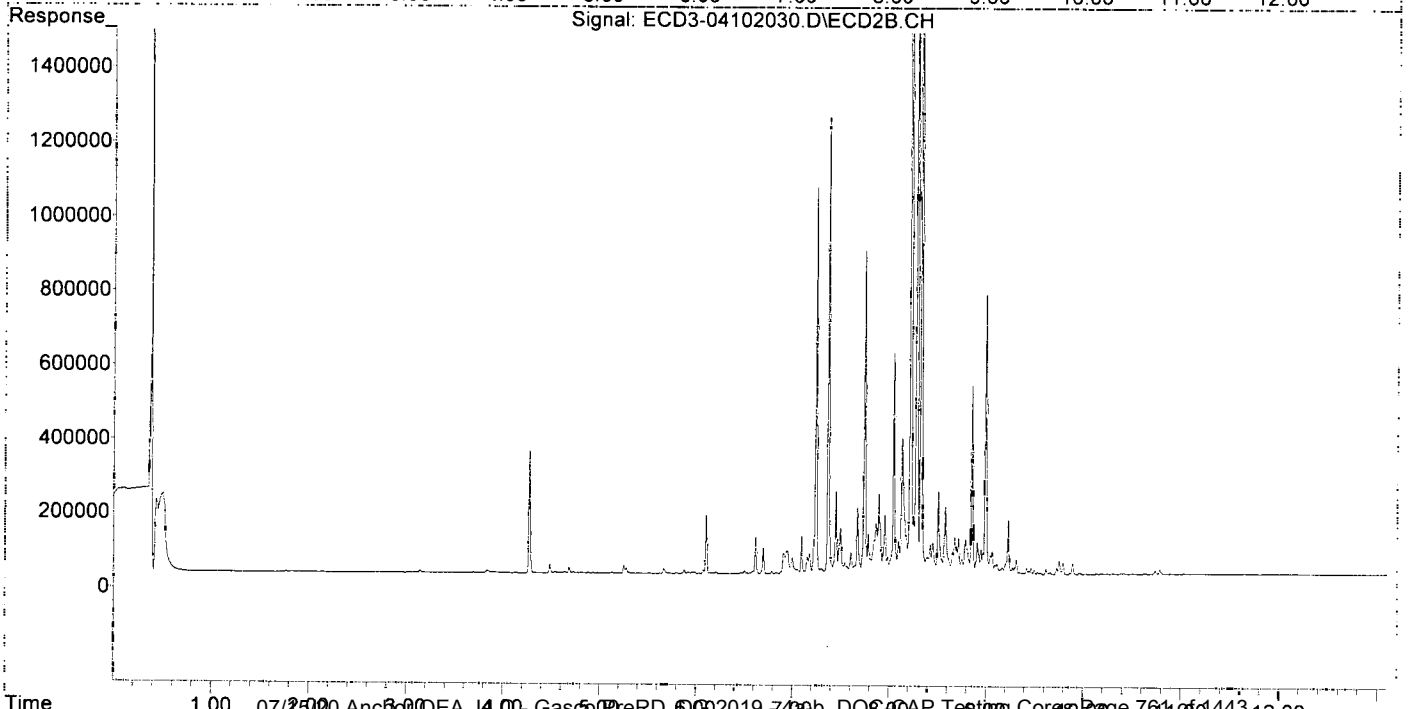
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:31
Operator : MJB
Sample : 0D10031-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:49
Operator : MJB
Sample : 0D10031-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

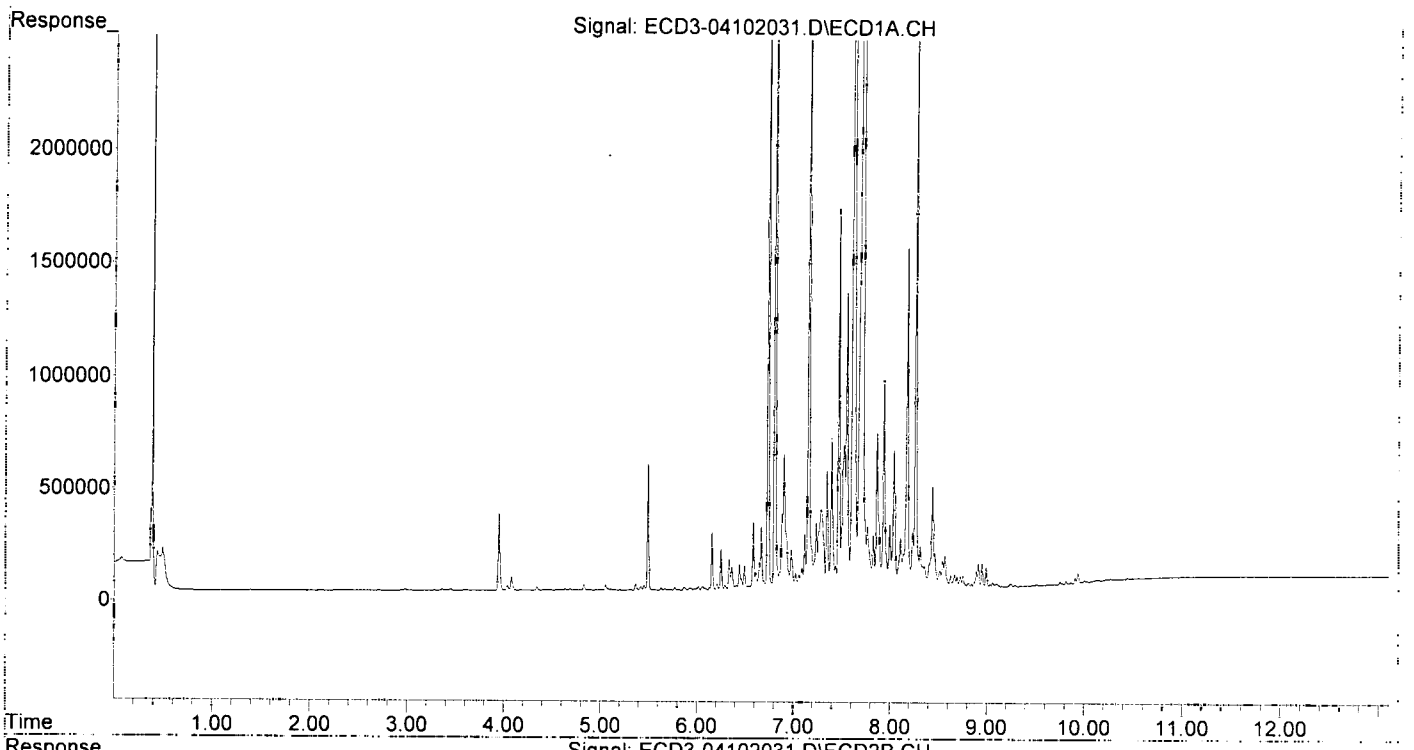
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.076	0	8150	N.D.	1884.042	#
22)	S	DCBP (S)	9.816	0.000	13691	0	BelowCal	N.D.	
		Target Compounds							
2)		a-BHC	6.093	6.698f	6402	148510	0.032	0.946	#
3)		g-BHC	6.409	6.998	18269	85508	0.106	0.635	#
4)		b-BHC	6.494f	7.050	106209	26376	1.557	0.429	#
5)		Heptachlor	6.806	7.369	3888559	2726350	23.747	24.084	
6)		d-BHC	6.611	7.300	77688	29611	0.553	0.242	#
7)		Aldrin	7.057	7.644	64626	48163	0.386	0.362	
8)		Heptachlo...	7.524	8.099	644481	194968	4.121	1.657	#
9)		trans-Chl...	7.613	8.220	8257015	6758715	52.473	56.041	
10)		cis-Chlor...	7.707	8.329	9851749	5655525	62.762	48.827	
11)		Endosulfa...	7.828	8.401	235945	99705	1.644	0.927	#
12)		4,4'-DDE	7.767	8.425	278109	176252	1.928	1.531	
13)		Dieldrin	7.998	8.582	286461	435961	1.782	3.641	#
14)		Endrin	8.177f	8.808	1513903	150237	12.272	1.738	#
15)		4,4'-DDD	8.177f	8.855	1513903	1167000	12.470	12.367	
16)		Endosulfa...	8.314	8.971	184601	133551	1.525	1.456	
17)		4,4'-DDT	0.000	9.094	0	53741	N.D.	1.053	#
18)		Endrin Al...	8.628f	9.230f	52412	316051	0.285	3.697	#
19)		Endosulfa...	8.914	9.421f	103812	35403	0.862	0.421	#
20)		Methoxychlor	8.728	9.530f	47071	16316	1.185	0.677	#
21)		Endrin Ke...	9.100	9.795	15165	62124	0.105	0.649	#
23)		Hexachlor...	3.364f	0.000	4927	0	2108.674	N.D.	#
24)		Hexachlor...	5.934	6.505f	9914	17833	BelowCal	2197.465	
25)		Oxychlordane	7.438	8.021	101551	114487	0.585	0.941	#
26)		2,4'-DDE	7.524	8.220	644481	6758715	6.948	90.985	#
27)		trans-Non...	7.707	8.284	9851749	5141945	68.169	47.522	
28)		2,4'-DDD	7.865f	8.582	699446	435961	8.373	6.269	
29)		2,4'-DDT	8.108f	8.808	223327	150237	2.967	2.801	
30)		cis-Nonac...	8.177	8.855	1513903	1167000	9.670	9.834	
31)		Mirex	8.842	9.795	14024	62124	7125.742	0.503	#
32)		Chlordane...	7.613	8.220	8257015	6758715	467.807	467.174	
33)		Chlordane...	7.707	8.329	9851749	5655525	475.423	457.516	
34)		Chlordane...	8.264	8.997	2640047	1759160	496.183	484.277	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.707f	8.582f	9851749	435961	11835.137	389.257	#
37)		Toxaphene...	7.998	8.912	286461	189705	190.108	139.073	
38)		Toxaphene...	8.314	8.948	184601	149529	59.350	68.896	
39)		Toxaphene...	8.544	8.997	116418	1759160	35.529	542.793	#
40)		Toxaphene...	8.754	9.169	50513	39092	21.448	18.337	
41)		Toxaphene...	8.842	0.000	14024	0	4.623	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

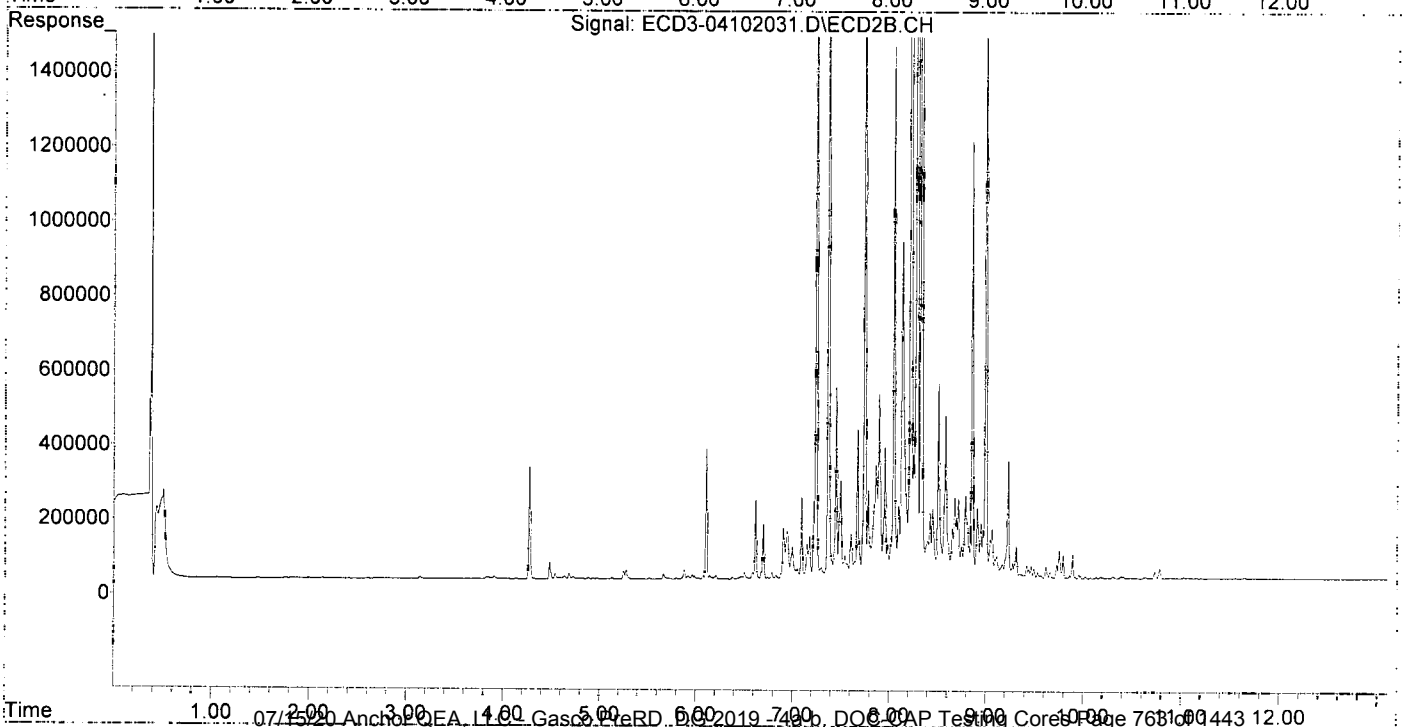
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:49
Operator : MJB
Sample : 0D10031-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:06
Operator : MJB
Sample : 0D10031-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

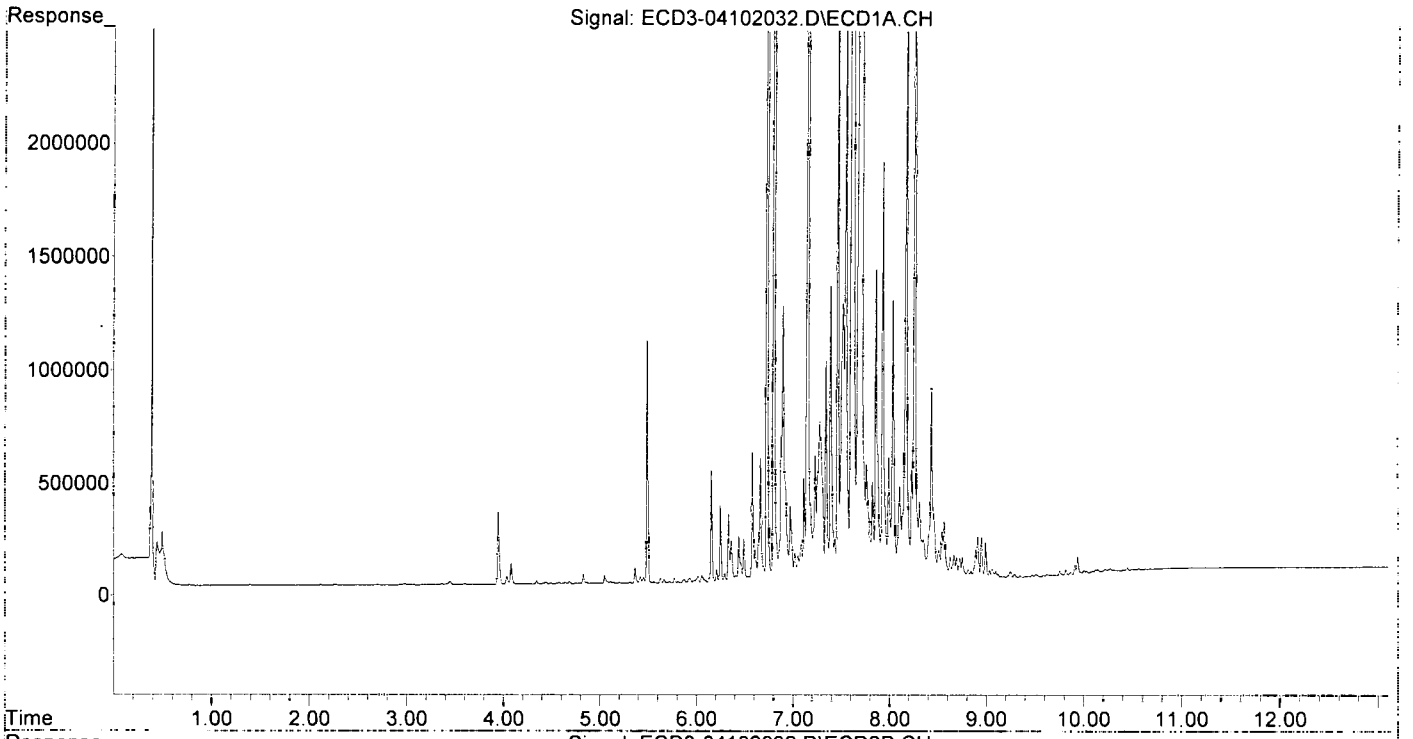
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.073	0	8703	N.D.	1884.037	#
22)	S	DCBP (S)	9.816	10.643f	25757	6157	0.009	2279.998	#
		Target Compounds							
2)		a-BHC	6.132f	6.697f	21467	277726	0.106	1.769	#
3)		g-BHC	6.407	6.998	29213	141834	0.169	1.053	#
4)		b-BHC	6.460	7.049	84418	41422	1.237	0.674	#
5)		Heptachlor	6.805	7.368	7353675	5125193	44.908	45.275	
6)		d-BHC	6.610	7.300	144233	50810	1.028	0.416	#
7)		Aldrin	7.055	7.641	115079	85543	0.686	0.644	
8)		Heptachlo...	7.523	8.098	1240255	360807	7.931	3.066	#
9)		trans-Chl...	7.612	8.219	16297810	12939873	103.571	107.293	
10)		cis-Chlor...	7.706	8.327	18923452	11101616	120.555	95.846	
11)		Endosulfa...	7.827	8.400	435189	190925	3.032	1.775	#
12)		4,4'-DDE	7.766	8.424	512152	332417	3.550	2.887	
13)		Dieldrin	7.997	8.581	542741	883912	3.377	7.382	#
14)		Endrin	8.176f	8.826	2925614	169205	23.715	1.957	#
15)		4,4'-DDD	8.176f	8.855	2925614	2281389	24.098	24.176	
16)		Endosulfa...	8.312	8.970	343399	242701	2.837	2.646	
17)		4,4'-DDT	0.000	9.093	0	96751	N.D.	1.836	#
18)		Endrin Al...	8.627f	9.229f	96998	585445	0.719	7.062	#
19)		Endosulfa...	8.913	9.419f	185706	64076	1.542	0.761	#
20)		Methoxychlor	8.727	9.567	89078	18533	2.204	0.763	#
21)		Endrin Ke...	9.098	9.794	28587	110989	0.198	1.160	#
23)		Hexachlor...	3.363f	0.000	5170	0	2108.672	N.D.	#
24)		Hexachlor...	5.932	6.505f	19371	32130	BelowCal	0.051	
25)		Oxychlordane	7.436	8.020	183853	205637	1.221	1.865	#
26)		2,4'-DDE	7.523	8.219	1240255	12939873	13.512	182.555	#
27)		trans-Non...	7.706	8.283	18923452	10128565	130.281	96.292	
28)		2,4'-DDD	7.864f	8.581	1385489	883912	16.787	13.037	
29)		2,4'-DDT	8.107f	8.826	410687	169205	5.456	3.154	#
30)		cis-Nonac...	8.176	8.855	2925614	2281389	18.855	19.525	
31)		Mirex	8.842	9.794	30587	110989	7125.575	1.225	#
32)		Chlordane...	7.612	8.219	16297810	12939873	923.364	894.427	
33)		Chlordane...	7.706	8.327	18923452	11101616	913.204	898.089	
34)		Chlordane...	8.264	8.996	4918547	3349788	924.415	925.439	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.706f	8.581f	18923452	883912	22733.186	789.221	#
37)		Toxaphene...	7.997	8.911	542741	359298	360.186	263.402	
38)		Toxaphene...	8.312	8.948	343399	290842	110.405	134.007	
39)		Toxaphene...	8.544	8.996	209053	3349788	68.490	1024.841	#
40)		Toxaphene...	8.754	9.168	93472	71816	39.689	36.405	
41)		Toxaphene...	8.842	9.567	30587	18533	10.083	9.156	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

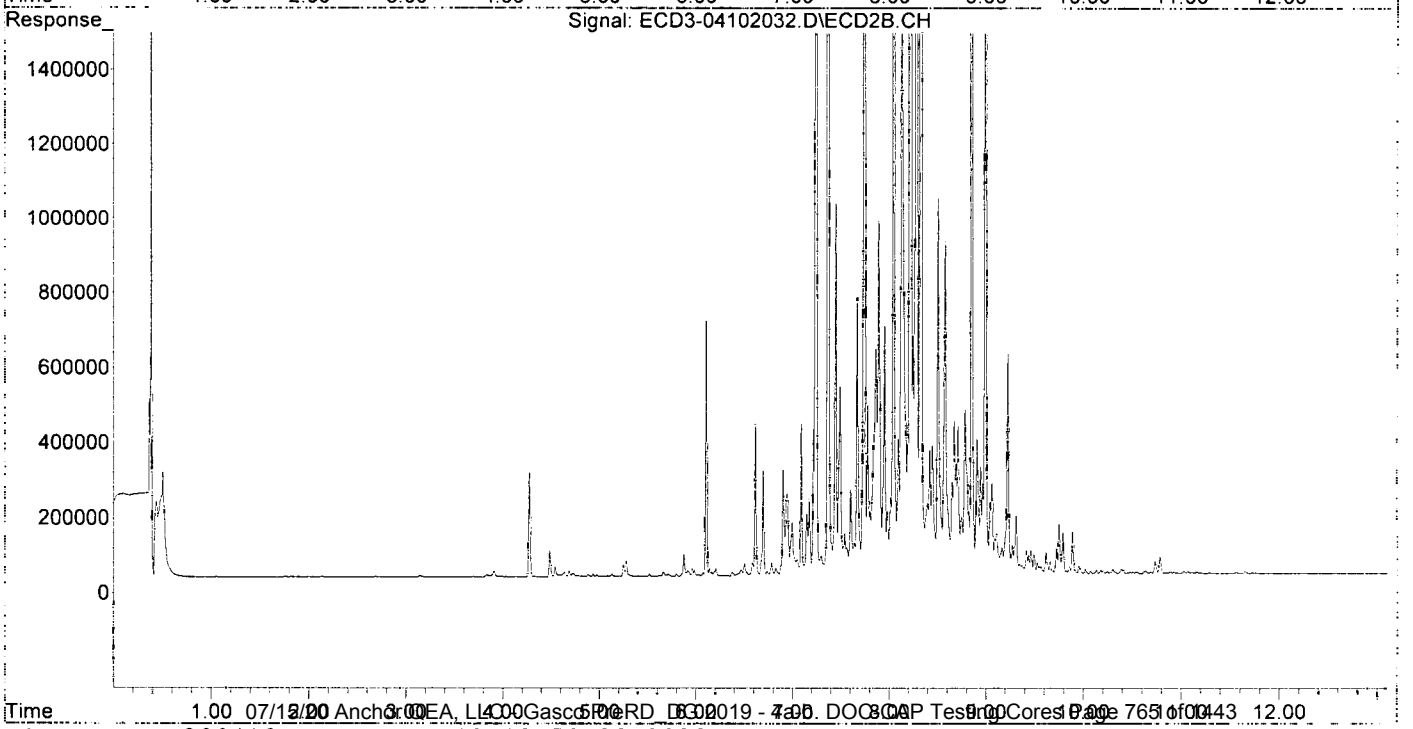
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:06
Operator : MJB
Sample : 0D10031-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:23
Operator : MJB
Sample : 0D10031-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:39 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 4/13/20

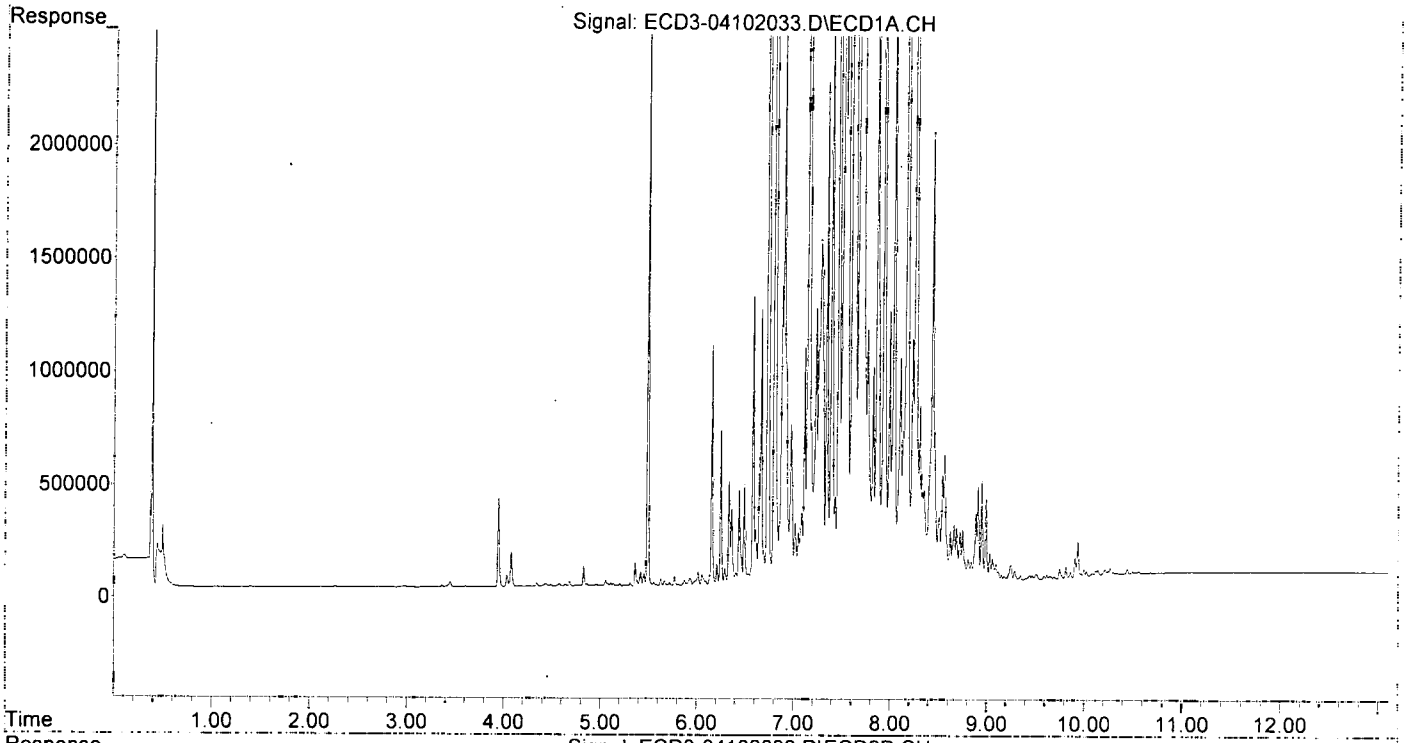
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.558	6.073	15357	6952	0.104	1884.053	#
22)	S	DCBP (S)	9.817	10.688	51160	7633	0.241	2279.976	#
		Target Compounds							
2)		a-BHC	6.093	6.698f	18589	567373	0.092	3.614	#
3)		g-BHC	6.408	6.999	53069	290612	0.307	2.157	#
4)		b-BHC	6.494f	7.048	441812	80370	6.476	1.309	#
5)		Heptachlor	6.805	7.369	16832589	11419369	102.796	100.876	
6)		d-BHC	6.611	7.300	242817	97644	1.730	0.799	#
7)		Aldrin	7.055	7.642	226866	166251	1.353	1.251	
8)		Heptachlo...	7.523	8.097	2758261	785022	17.638	6.670	#
9)		trans-Chl...	7.612	8.219	36805140	27125757	233.894	224.918	
10)		cis-Chlor...	7.707	8.328	42306718	22830370	269.521	197.107	
11)		Endosulfa...	7.826	8.400	960089	445351	6.690	4.141	
12)		4,4'-DDE	7.766	8.450	1122250	768933	7.780	6.678	
13)		Dieldrin	7.996	8.581	1202865	2268447	7.485	18.944	#
14)		Endrin	8.138	8.827	670516	368311	5.435	4.260	
15)		4,4'-DDD	8.176f	8.854	6411456	4802354	52.811	50.891	
16)		Endosulfa...	8.313	8.971	782923	557160	6.468	6.075	
17)		4,4'-DDT	0.000	9.093	0	214671	N.D.	3.970	#
18)		Endrin Al...	8.627f	9.229f	222022	1355626	1.935	16.717	#
19)		Endosulfa...	8.913	9.371f	417844	58349	3.469	0.693	#
20)		Methoxychlor	8.727	9.567	217988	46357	5.303	1.837	#
21)		Endrin Ke...	9.098	9.794	73080	248821	0.507	2.601	#
23)		Hexachlor...	3.364f	0.000	6416	0	2108.665	N.D.	#
24)		Hexachlor...	5.933	6.505f	32038	62156	0.038	0.327	#
25)		Oxychlordane	7.435	8.020	384206	442855	2.769	4.274	#
26)		2,4'-DDE	7.523	8.219	2758261	27125757	30.119	441.078	#
27)		trans-Non...	7.707	8.283	42306718	20983838	286.829	213.154	
28)		2,4'-DDD	7.863f	8.581	3068821	2268447	37.381	34.143	
29)		2,4'-DDT	8.107f	8.827	996158	368311	13.233	6.866	#
30)		cis-Nonac...	8.176	8.854	6411456	4802354	41.415	41.727	
31)		Mirex	8.843	9.794	83494	248821	0.473	3.263	#
32)		Chlordane...	7.612	8.219	36805140	27125757	2085.221	1874.981	
33)		Chlordane...	7.707	8.328	42306718	22830370	2041.628	1846.912	
34)		Chlordane...	8.263	8.996	11270916	7528954	2118.309	2081.650	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.707f	8.581f	42306718	2268447	50824.051	2025.433	#
37)		Toxaphene...	7.996	8.911	1202865	812967	798.272	595.989	
38)		Toxaphene...	8.313	8.947	782923	684314	251.714	315.302	
39)		Toxaphene...	8.544	8.996	471366	7528954	161.225	2222.006	#
40)		Toxaphene...	8.754	9.168	227003	163151	96.387	86.745	
41)		Toxaphene...	8.843	9.567	83494	46357	27.524	22.904	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

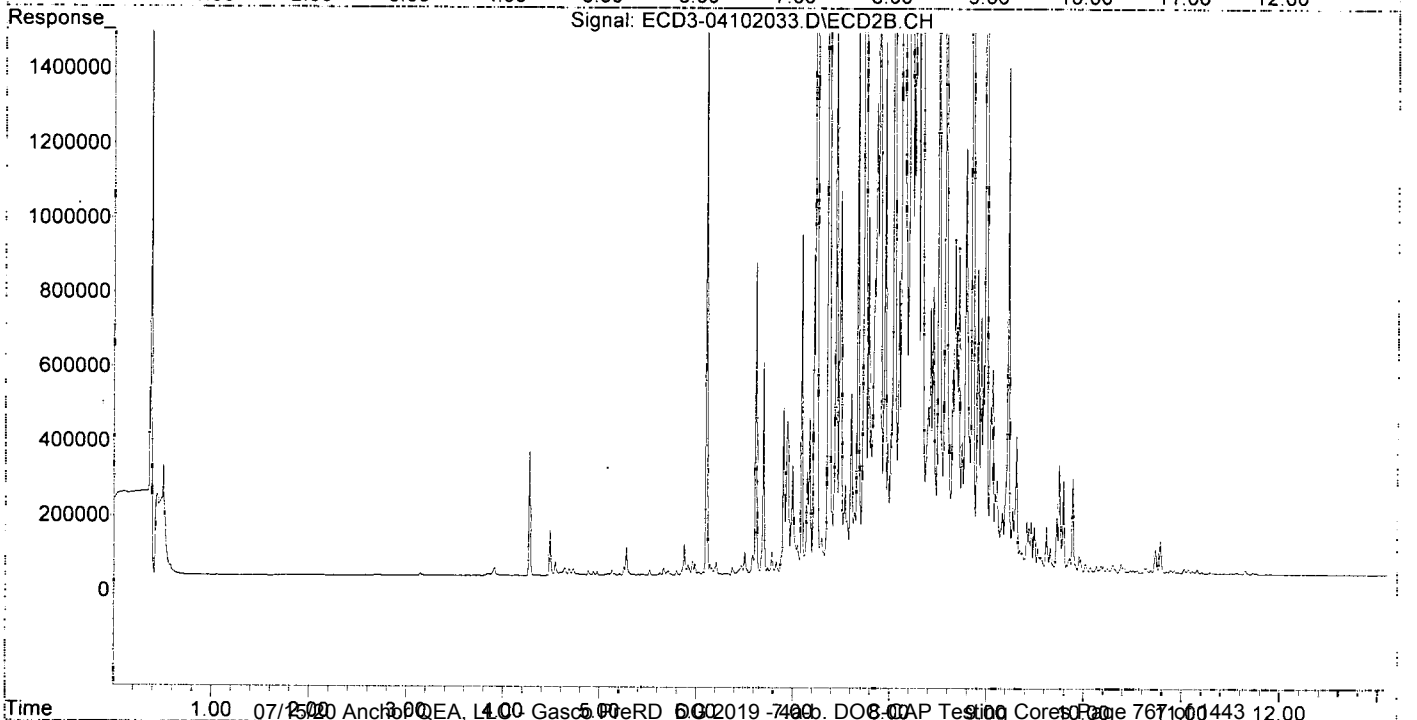
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:23
Operator : MJB
Sample : 0D10031-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:39 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:12 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

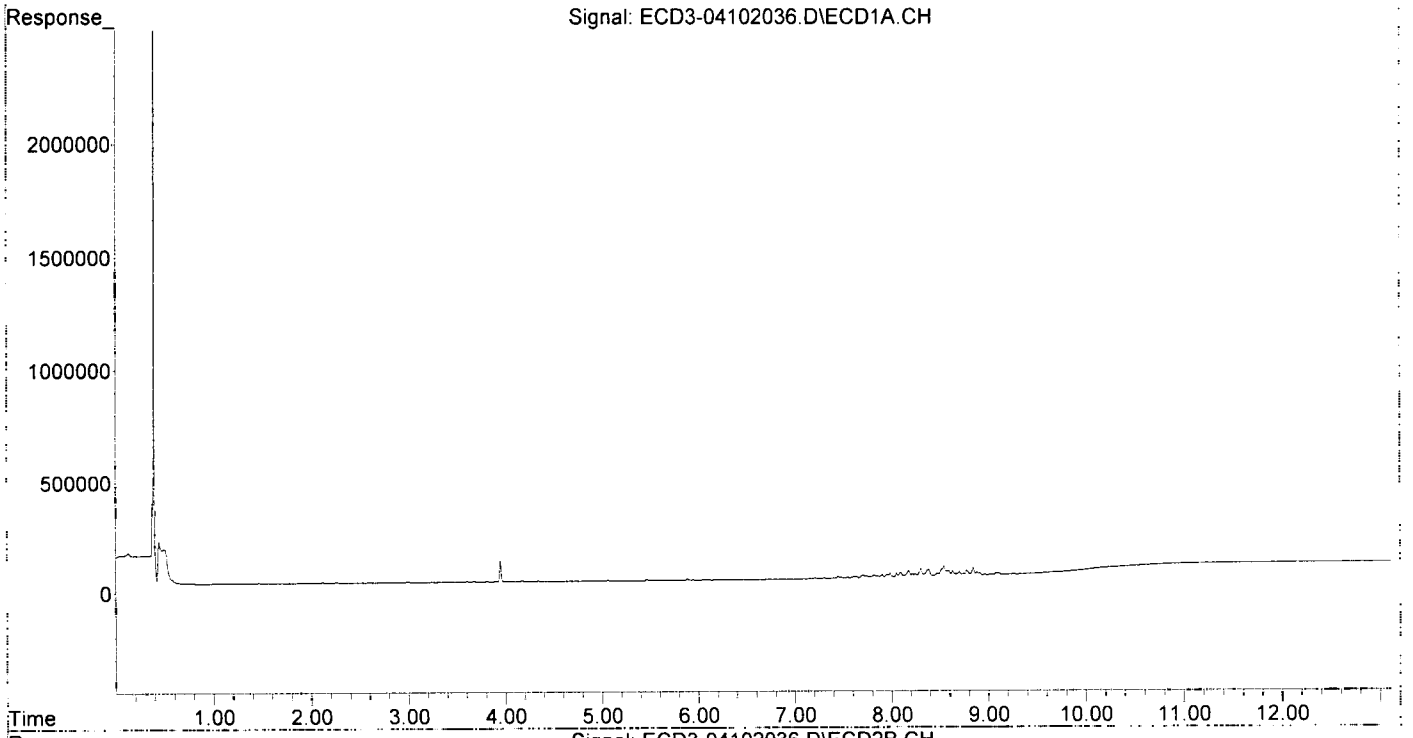
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.085f	0	4820	N.D.	1884.072	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.616	8.218	6656	6734	0.042	0.056	
10)		cis-Chlor...	7.702	8.326	9912	5399	0.063	0.047	
11)		Endosulfa...	7.818	8.385	5813	4742	0.041	0.044	
12)		4,4'-DDE	7.739f	8.452	6858	5061	0.048	0.044	
13)		Dieldrin	7.986	8.558f	15559	11439	0.097	0.096	
14)		Endrin	8.176f	8.805	25080	10917	0.203	0.126	
15)		4,4'-DDD	8.215	8.854	11080	12038	0.091	0.128	
16)		Endosulfa...	8.302	8.944	32449	26120	0.268	0.285	
17)		4,4'-DDT	8.376f	9.074	27476	10264	0.413	0.259	
18)		Endrin Al...	8.591	9.190	22554	23927	BelowCal	0.057	
19)		Endosulfa...	8.912	9.392	10557	8987	0.088	0.107	
20)		Methoxychlor	8.701f	9.574	16911	24338	0.451	0.987	#
21)		Endrin Ke...	9.103	9.790	7883	5669	0.055	0.059	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)		Oxychlordane	7.446	0.000	8494	0	BelowCal	N.D.	
26)		2,4'-DDE	0.000	8.218	0	6734	N.D.	2144.896	#
27)		trans-Non...	7.702	8.267	9912	9783	BelowCal	1953.475	
28)		2,4'-DDD	7.902	8.558f	8966	11439	BelowCal	3167.715	
29)		2,4'-DDT	8.089	8.805	16924	10917	0.225	0.204	
30)		cis-Nonac...	8.176	8.854	25080	12038	BelowCal	2549.456	
31)		Mirex	8.844	9.790	34168	5669	7125.539	3567.445	#
32)		Chlordane...	7.616	8.218	6656	6734	0.377	0.465	
33)		Chlordane...	7.702	8.326	9912	5399	0.478	0.437	
34)		Chlordane...	8.243f	9.011	10181	62570	1.913	13.054	#
35)		Chlordane...	0.000	3.828f	0	4384	N.D.	NoCal	
36)		Toxaphene...	7.702	8.558	9912	11439	11.908	10.213	
37)		Toxaphene...	7.986	8.909	15559	14963	10.326	10.969	
38)		Toxaphene...	8.302	8.944	32449	26120	10.432	12.035	
39)		Toxaphene...	8.543	9.011	44818	62570	9.976	9.976	/
40)		Toxaphene...	8.775	9.190	23487	23927	9.973	9.958	
41)		Toxaphene...	8.844	9.574	34168	24338	11.264	12.025	
42)		Toxaphene...	0.000	3.828f	0	4384	N.D.	NoCal	

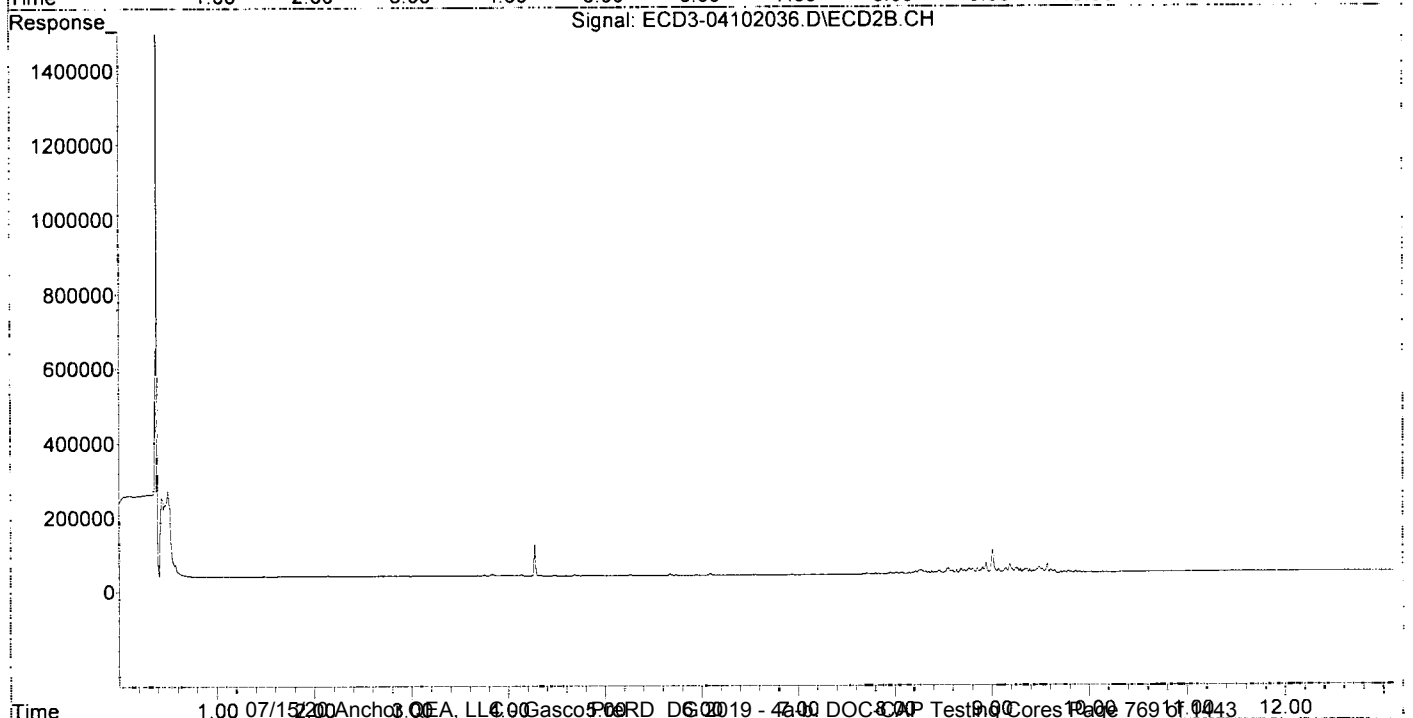
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:12 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:31
Operator : MJB
Sample : 0D10031-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:28 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

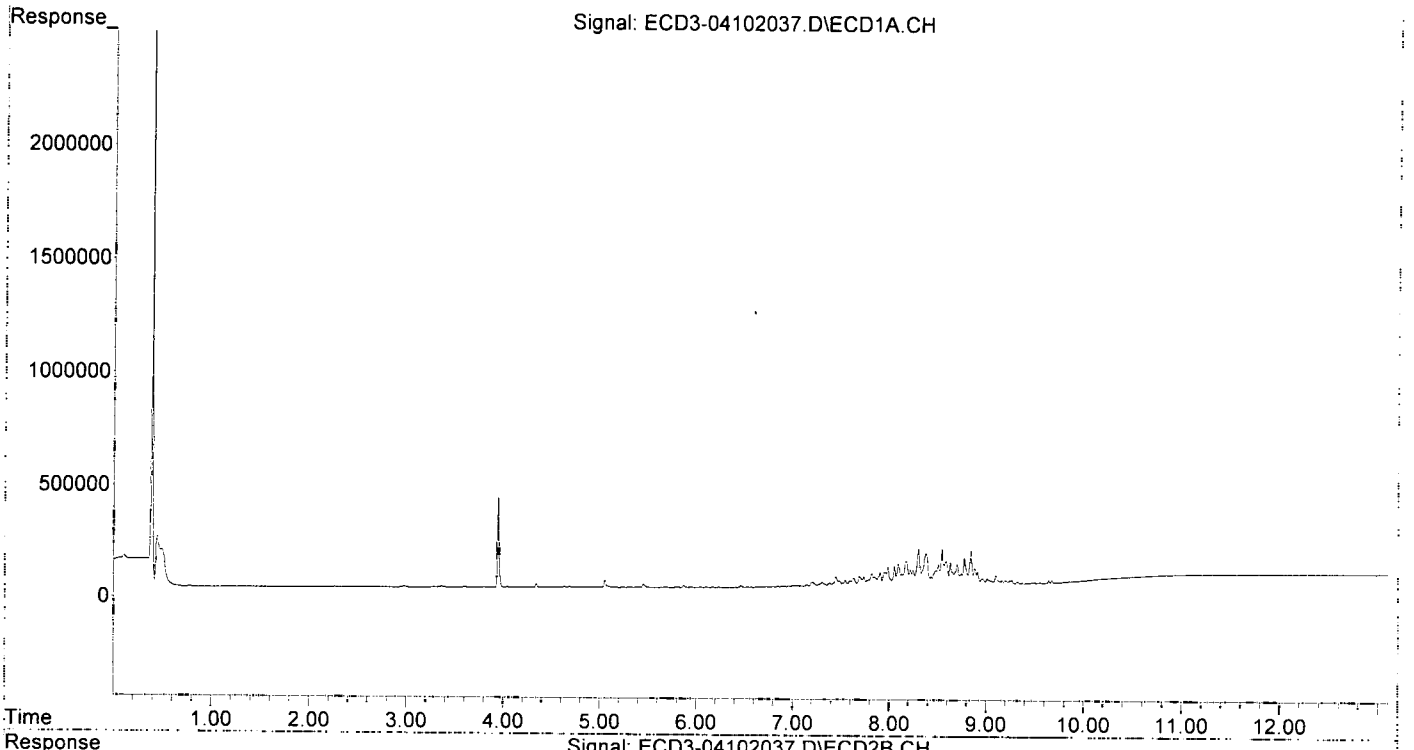
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.076	0	8517	N.D.	1884.039	#
22)	S	DCBP (S)	9.804	0.000	2370	0	BelowCal	N.D.	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.462	0.000	7686	0	0.113	N.D.	#
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	7.050	7.664f	3561	5219	0.021	0.039	#
8)		Heptachlo...	7.520	8.071	14094	19397	0.090	0.165	#
9)		trans-Chl...	7.632	8.200f	32426	22349	0.206	0.185	
10)		cis-Chlor...	7.689f	8.310f	41998	23380	0.268	0.202	
11)		Endosulfa...	7.818	8.385	53919	29350	0.376	0.273	
12)		4,4'-DDE	7.738f	8.451	39448	34001	0.273	0.295	
13)		Dieldrin	7.985	8.599	82518	35082	0.513	0.293	#
14)		Endrin	8.175f	8.805	106225	57193	0.861	0.662	
15)		4,4'-DDD	8.216	8.856	69015	42229	0.568	0.448	
16)		Endosulfa...	8.302	8.944	158918	114478	1.313	1.248	
17)		4,4'-DDT	8.377f	9.075	138308	43087	1.699	0.859	#
18)		Endrin Al...	8.591	9.190	104622	99407	0.793	0.996	
19)		Endosulfa...	8.913	9.392	53898	39894	0.447	0.474	
20)		Methoxychlor	8.744	9.574	49533	103198	1.245	4.016	#
21)		Endrin Ke...	9.100	9.795	38040	10712	0.264	0.112	#
23)		Hexachlor...	3.361f	0.000	6025	0	2108.667	N.D.	#
24)		Hexachlor...	0.000	6.528	0	2994	N.D.	2197.601	#
25)		Oxychlordane	7.446	8.022	40738	19660	0.115	3277.538	#
26)		2,4'-DDE	7.520	8.200	14094	22349	BelowCal	0.058	
27)		trans-Non...	7.689	8.293	41998	22978	0.085	1953.355	#
28)		2,4'-DDD	7.904	8.599	58319	35082	0.499	0.236	#
29)		2,4'-DDT	8.091	8.805	94112	57193	1.250	1.066	
30)		cis-Nonac...	8.175	8.856	106225	42229	0.483	0.128	#
31)		Mirex	8.844	9.795	150990	10712	1.155	3567.371	#
32)		Chlordane...	7.595	8.200f	22478	22349	1.274	1.545	
33)		Chlordane...	7.689	8.310	41998	23380	2.027	1.891	
34)		Chlordane...	8.244f	9.012	65810	190413	12.369	48.586	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.689	8.558	41998	61319	50.453	54.750	
37)		Toxaphene...	7.985	8.909	82518	72536	54.763	53.177	
38)		Toxaphene...	8.302	8.944	158918	114478	51.093	52.746	
39)		Toxaphene...	8.544	9.012	158276	190413	50.437	50.844	
40)		Toxaphene...	8.775	9.190	119137	99407	50.586	51.626	
41)		Toxaphene...	8.844	9.574	150990	103198	49.775	50.987	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

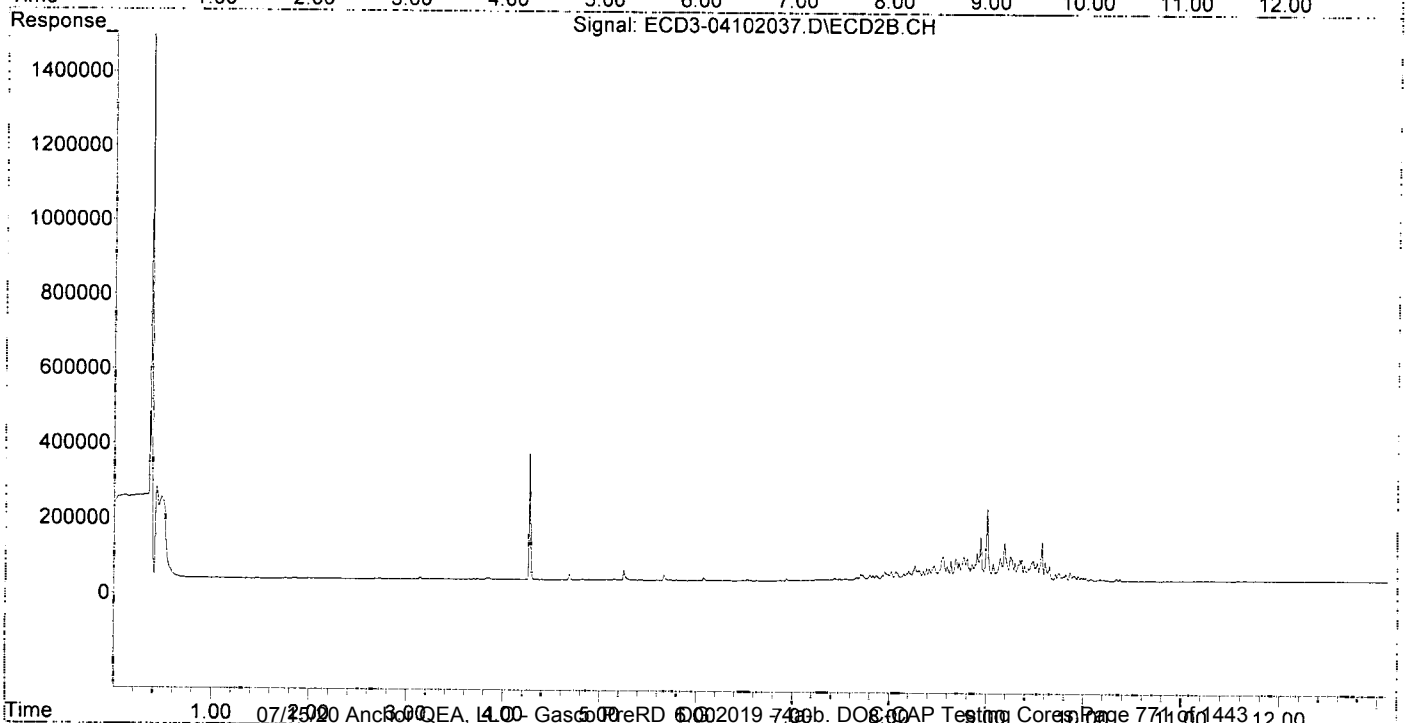
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:31
Operator : MJB
Sample : 0D10031-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:28 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:48
Operator : MJB
Sample : 0D10031-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:38 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

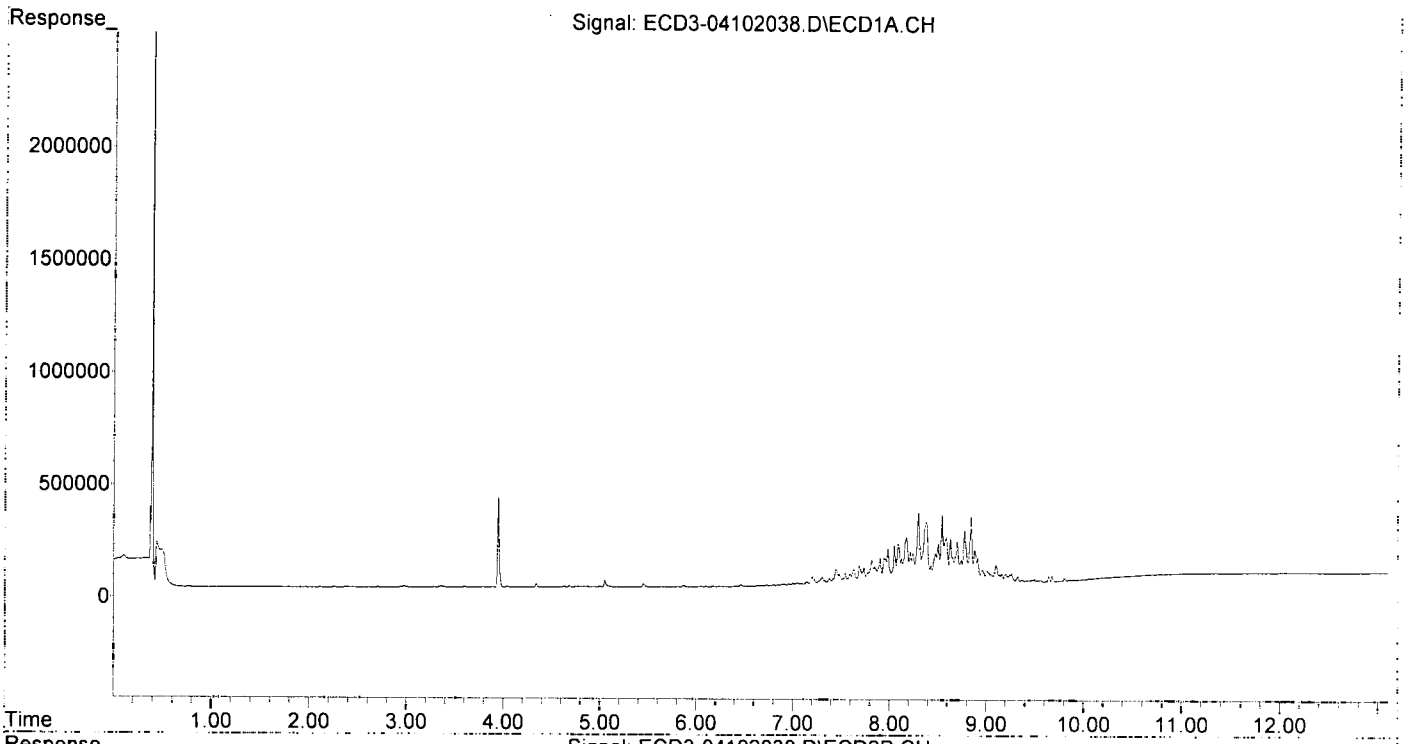
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.076	0	7811	N.D.	1884.045	#
22)	S	DCBP (S)	9.804	10.674	12778	6858	BelowCal	2279.988	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.460	0.000	8467	0	0.124	N.D.	#
5)		Heptachlor	0.000	7.336f	0	3365	N.D.	0.030	#
6)		d-BHC	0.000	7.336f	0	3365	N.D.	0.028	#
7)		Aldrin	7.049	7.664f	10668	9317	0.064	0.070	
8)		Heptachlo...	7.520	8.071	28937	40275	0.185	0.342	#
9)		trans-Chl...	7.631	8.200f	66979	44922	0.426	0.372	
10)		cis-Chlor...	7.737f	8.353f	74790	44769	0.476	0.387	
11)		Endosulfa...	7.817	8.385	106829	58057	0.744	0.540	
12)		4,4'-DDE	7.737f	8.450	74790	67486	0.518	0.586	
13)		Dieldrin	7.985	8.598	156502	68413	0.974	0.571	#
14)		Endrin	8.177f	8.805	202670	107718	1.643	1.246	
15)		4,4'-DDD	8.214	8.857	140399	79052	1.156	0.838	
16)		Endosulfa...	8.301	8.944	311689	211094	2.575	2.302	
17)		4,4'-DDT	8.378f	9.075	269209	82688	3.208	1.580	#
18)		Endrin Al...	8.591	9.190	203270	185979	1.753	2.075	
19)		Endosulfa...	8.913	9.392	109063	77639	0.905	0.922	
20)		Methoxychlor	8.742	9.574	101222	194265	2.497	7.463	#
21)		Endrin Ke...	9.100	9.799	77089	20884	0.535	0.218	#
23)		Hexachlor...	3.361	0.000	5867	0	2108.668	N.D.	#
24)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)		Oxychlordane	7.446	8.022	70048	39105	0.342	0.177	#
26)		2,4'-DDE	7.520	8.200	28937	44922	0.138	0.350	#
27)		trans-Non...	7.688	8.294	83308	45578	0.374	0.193	#
28)		2,4'-DDD	7.903	8.598	114457	68413	1.189	0.737	
29)		2,4'-DDT	8.091	8.827	176070	62527	2.339	1.166	#
30)		cis-Nonac...	8.177	8.857	202670	79052	1.113	0.445	#
31)		Mirex	8.844	9.799	291120	20884	2.572	3567.221	#
32)		Chlordane...	7.631	8.200f	66979	44922	3.795	3.105	
33)		Chlordane...	7.688	8.309f	83308	44208	4.020	3.576	
34)		Chlordane...	8.242f	9.011	134758	346003	25.327	91.825	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.688	8.558	83308	116776	100.080	104.266	
37)		Toxaphene...	7.985	8.908	156502	135442	103.861	99.293	
38)		Toxaphene...	8.301	8.944	311689	211094	100.210	97.263	
39)		Toxaphene...	8.543	9.011	303785	346003	102.082	100.419	
40)		Toxaphene...	8.775	9.190	229620	185979	97.498	99.306	
41)		Toxaphene...	8.844	9.574	291120	194265	95.970	95.981	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

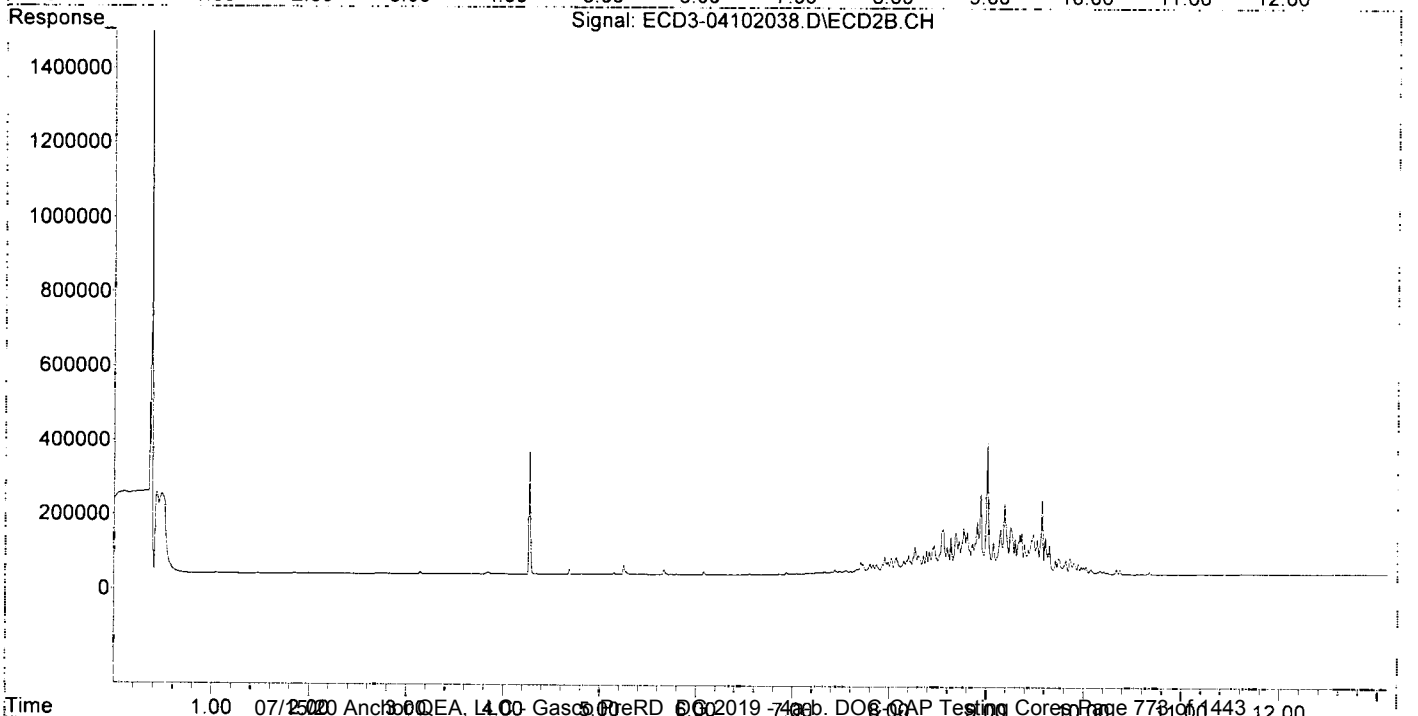
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:48
Operator : MJB
Sample : 0D10031-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:38 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:05
Operator : MJB
Sample : 0D10031-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

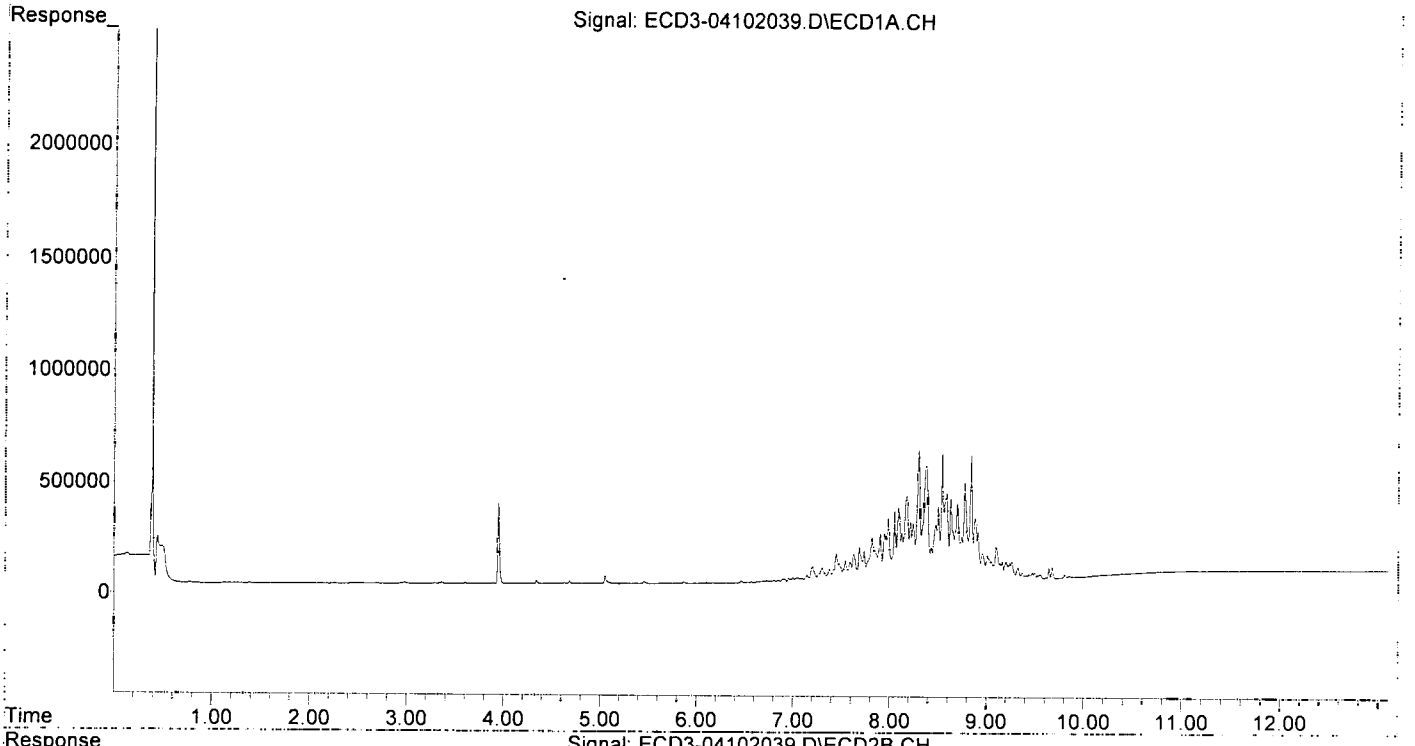
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.075	0	6588	N.D.	1884.056	#
22)	S	DCBP (S)	9.802	10.673	14045	4933	BelowCal	2280.016	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	6.979	0	2973	N.D.	0.022	#
4)		b-BHC	6.460	7.040	8840	3795	0.130	0.062	#
5)		Heptachlor	6.800	7.335f	9453	5603	0.058	0.049	
6)		d-BHC	6.639	7.311	5984	3450	0.043	0.028	
7)		Aldrin	7.048	7.664f	21720	16625	0.130	0.125	
8)		Heptachlo...	7.519	8.071	58097	70899	0.372	0.602	#
9)		trans-Chl...	7.630	8.198f	122598	80345	0.779	0.666	
10)		cis-Chlor...	7.737f	8.351	136784	82678	0.871	0.714	
11)		Endosulfa...	7.816	8.383	194470	105748	1.355	0.983	
12)		4,4'-DDE	7.737f	8.448	136784	120878	0.948	1.050	
13)		Dieldrin	7.984	8.597	286085	123447	1.780	1.031	#
14)		Endrin	8.175f	8.804	380413	201482	3.084	2.331	
15)		4,4'-DDD	8.214	8.856	263921	144411	2.174	1.530	
16)		Endosulfa...	8.299	8.943	586224	394858	4.843	4.305	
17)		4,4'-DDT	8.374f	9.074	516218	153102	6.026	2.858	#
18)		Endrin Al...	8.590	9.189	392241	355753	3.592	4.193	
19)		Endosulfa...	8.912	9.391	215845	145823	1.792	1.732	
20)		Methoxychlor	8.743	9.573	194631	370159	4.744	13.980	#
21)		Endrin Ke...	9.098	9.817f	145893	71610	1.013	0.748	
23)		Hexachlor...	3.361	0.000	5663	0	2108.669	N.D.	#
24)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)		Oxychlordane	7.446	8.021	126030	68620	0.774	0.476	
26)		2,4'-DDE	7.519	8.198	58097	80345	0.461	0.808	#
27)		trans-Non...	7.686	8.292	153469	80194	0.864	0.507	#
28)		2,4'-DDD	7.902	8.597	214113	123447	2.413	1.564	
29)		2,4'-DDT	8.089	8.826	326682	118494	4.340	2.209	#
30)		cis-Nonac...	8.175	8.856	380413	144411	2.274	1.007	#
31)		Mirex	8.842	9.817f	559171	71610	5.283	0.643	#
32)		Chlordane...	7.630	8.198f	122598	80345	6.946	5.554	
33)		Chlordane...	7.686f	8.308f	153469	78523	7.406	6.352	
34)		Chlordane...	8.241f	9.011	258495	639556	48.583	173.388	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.686	8.557	153469	208550	184.366	186.209	
37)		Toxaphene...	7.984	8.907	286085	248644	189.858	182.282	
38)		Toxaphene...	8.299	8.943	586224	394858	188.474	181.933	
39)		Toxaphene...	8.542	9.011	565257	639556	194.206	193.471	
40)		Toxaphene...	8.774	9.189	439278	355753	186.520	192.467	
41)		Toxaphene...	8.842	9.573	559171	370159	184.336	182.886	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

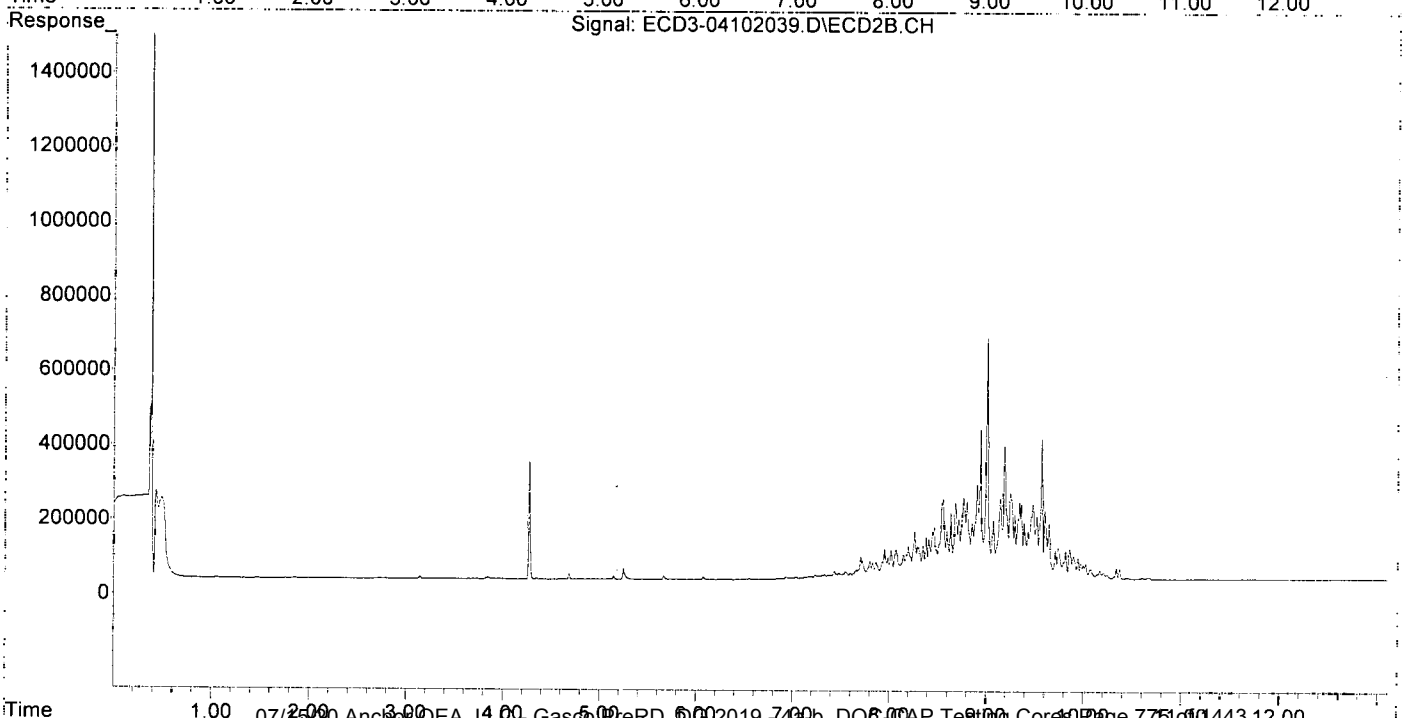
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:05
Operator : MJB
Sample : 0D10031-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:22
Operator : MJB
Sample : 0D10031-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

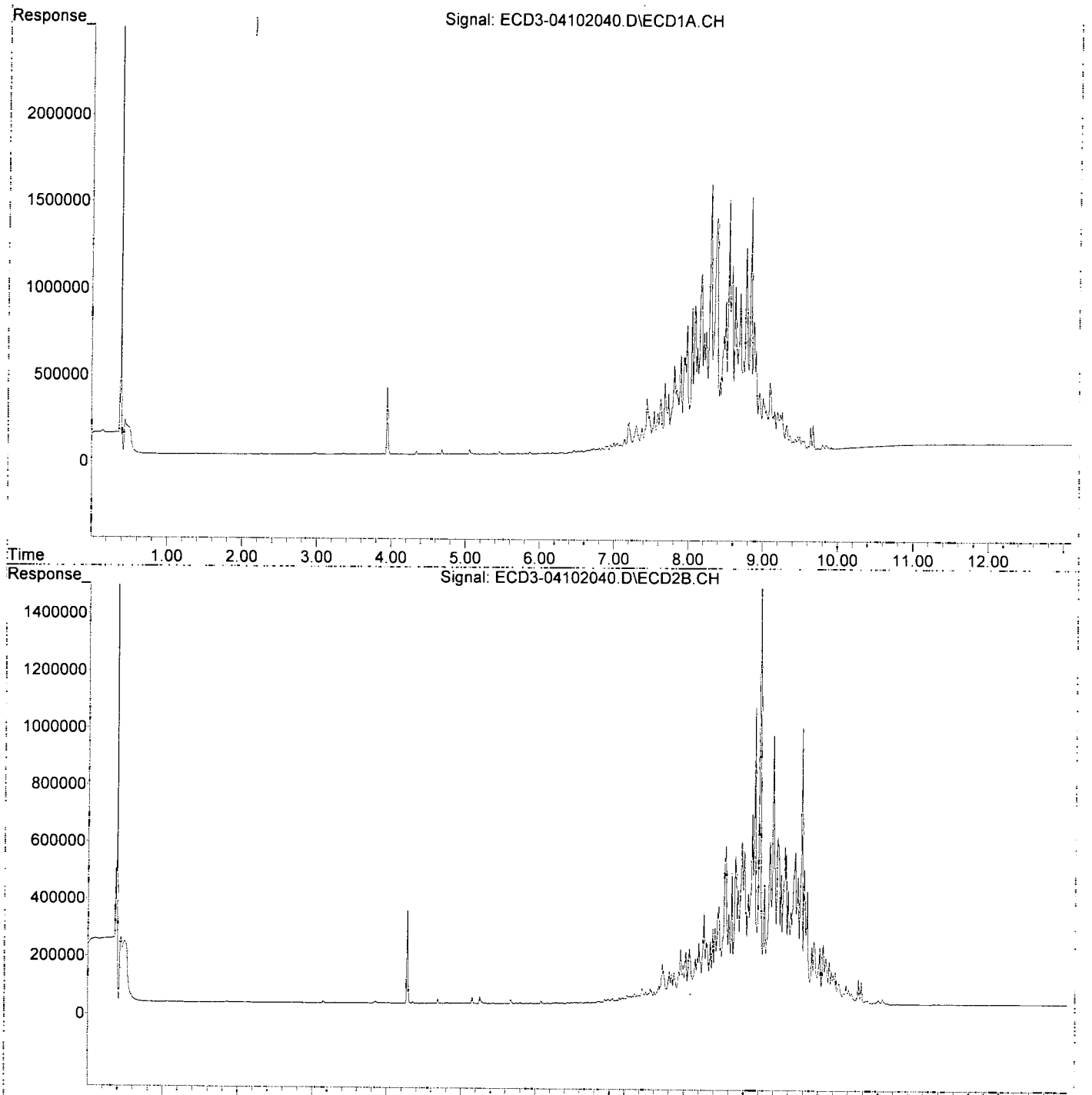
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.074	0	8341	N.D.	1884.041	#
22)	S DCBP (S)	9.801	10.652f	26157	16698	0.012	0.004	#
	Target Compounds							
2)	a-BHC	0.000	6.671	0	3076	N.D.	0.020	#
3)	g-BHC	6.398	6.978	5041	11674	0.029	0.087	#
4)	b-BHC	6.460	7.039	15874	14665	0.233	0.239	
5)	Heptachlor	6.801	7.368	25450	25090	0.155	0.222	#
6)	d-BHC	6.638	7.310	16591	23682	0.118	0.194	#
7)	Aldrin	7.048	7.662f	55413	59438	0.331	0.447	
8)	Heptachlo...	7.518	8.069	140689	187381	0.900	1.592	#
9)	trans-Chl...	7.629	8.198f	305389	206350	1.941	1.711	
10)	cis-Chlor...	7.736f	8.350	334668	210776	2.132	1.820	
11)	Endosulfa...	7.814	8.382	495845	259829	3.455	2.416	
12)	4,4'-DDE	7.736f	8.447	334668	313463	2.320	2.722	
13)	Dieldrin	7.982	8.596	728788	311091	4.535	2.598	#
14)	Endrin	8.173	8.825	1021617	317253	8.281	3.670	#
15)	4,4'-DDD	8.212	8.856	680671	381854	5.607	4.047	
16)	Endosulfa...	8.298	8.942f	1540725	1031208	12.728	11.243	
17)	4,4'-DDT	8.381	9.073	1345906	408152	15.224	7.430	#
18)	Endrin Al...	8.588	9.187	1067614	932303	10.158	11.403	
19)	Endosulfa...	8.910	9.390	574063	391665	4.766	4.653	
20)	Methoxychlor	8.741	9.572	520862	958890	12.431	34.592	#
21)	Endrin Ke...	9.096	9.816	391123	192702	2.715	2.014	
23)	Hexachlor...	3.359	0.000	6168	0	2108.666	N.D.	#
24)	Hexachlor...	0.000	6.527	0	3090	N.D.	2197.600	#
25)	Oxychlordane	7.444	8.020	310336	177734	2.198	1.582	
26)	2,4'-DDE	7.518	8.198	140689	206350	1.376	2.439	#
27)	trans-Non...	7.685	8.291	400599	210046	2.591	1.685	
28)	2,4'-DDD	7.900	8.596	552773	311091	6.572	4.387	
29)	2,4'-DDT	8.088	8.825	842514	317253	11.192	5.915	#
30)	cis-Nonac...	8.173	8.856	1021617	381854	6.460	3.051	#
31)	Mirex	8.842	9.816f	1468060	192702	14.490	2.433	#
32)	Chlordane...	7.629	8.198f	305389	206350	17.302	14.263	
33)	Chlordane...	7.685f	8.350f	400599	210776	19.332	17.051	
34)	Chlordane...	8.238f	9.010	692182	1630720	130.092	448.627	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.685	8.556	400599	549025	481.249	490.209	
37)	Toxaphene...	7.982	8.906	728788	661072	483.655	484.634	
38)	Toxaphene...	8.298	8.942	1540725	1031208	495.352	475.135	
39)	Toxaphene...	8.541	9.010	1443047	1630720	497.374	503.155	
40)	Toxaphene...	8.772	9.187	1171966	932303	497.624	505.539	
41)	Toxaphene...	8.842	9.572	1468060	958890	483.959	473.762	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:22
Operator : MJB
Sample : 0D10031-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:39
Operator : MJB
Sample : 0D10031-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:48:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJP 4/13/20

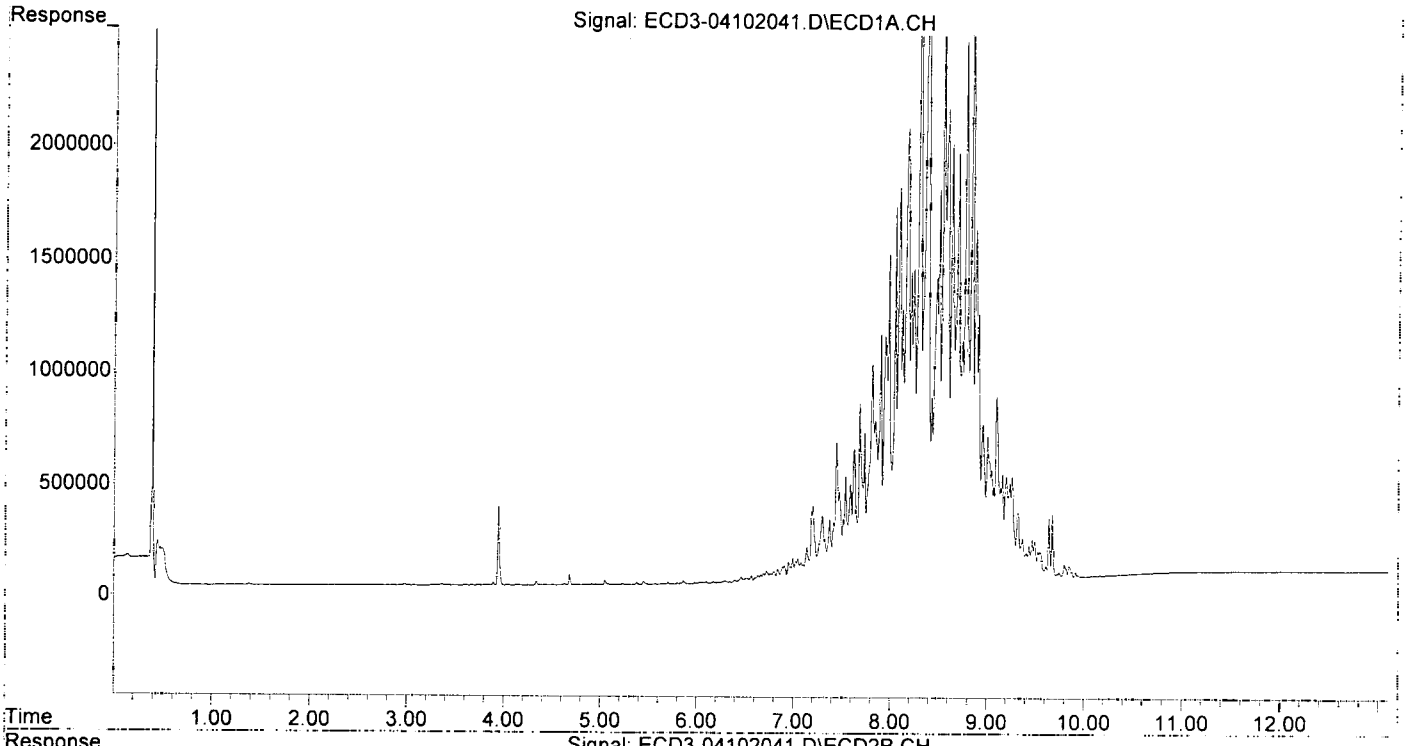
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.072	0	12189	N.D.	1884.007	#
22)	S	DCBP (S)	9.800	10.651f	57248	38636	0.296	0.330	
		Target Compounds							
2)		a-BHC	6.100	6.669	8769	8203	0.043	0.052	
3)		g-BHC	6.397	6.978	11605	25167	0.067	0.187	#
4)		b-BHC	6.460	7.040	25035	30236	0.367	0.492	
5)		Heptachlor	6.805	7.368	47493	47703	0.290	0.421	#
6)		d-BHC	6.637	7.310	32637	44673	0.233	0.365	#
7)		Aldrin	7.047	7.662f	102813	106991	0.613	0.805	
8)		Heptachlo...	7.517	8.069	279983	357721	1.790	3.039	#
9)		trans-Chl...	7.629	8.198f	588626	399056	3.741	3.309	
10)		cis-Chlor...	7.735f	8.351	658780	417339	4.197	3.603	
11)		Endosulfa...	7.814	8.382	964606	510176	6.721	4.744	
12)		4,4'-DDE	7.735f	8.448	658780	620916	4.567	5.392	
13)		Dieldrin	7.982	8.596	1453876	615932	9.046	5.144	#
14)		Endrin	8.173	8.803	2012569	1098711	16.314	12.709	
15)		4,4'-DDD	8.212	8.855	1373866	768713	11.316	8.146	
16)		Endosulfa...	8.298	8.942	3092888	2068991	25.550	22.558	
17)		4,4'-DDT	8.377f	9.073	2747616	815309	29.938	14.550	#
18)		Endrin Al...	8.588	9.188	2101414	1879026	20.194	23.310	
19)		Endosulfa...	8.910	9.389	1181441	799091	9.808	9.493	
20)		Methoxychlor	8.742	9.571	1064528	1938338	24.735	65.633	#
21)		Endrin Ke...	9.097	9.815	812677	395447	5.642	4.133	
23)		Hexachlor...	3.360	0.000	4789	0	2108.674	N.D.	#
24)		Hexachlor...	5.978f	6.526	5465	7156	BelowCal	2197.563	
25)		Oxychlordane	7.445	8.020	618933	338659	4.582	3.216	
26)		2,4'-DDE	7.517	8.198	279983	399056	2.919	4.938	#
27)		trans-Non...	7.684	8.292	793856	407537	5.338	3.479	
28)		2,4'-DDD	7.901	8.596	1099858	615932	13.285	8.984	
29)		2,4'-DDT	8.088	8.825	1748100	624012	23.221	11.633	#
30)		cis-Nonac...	8.173	8.855	2012569	768713	12.918	6.389	#
31)		Mirex	8.842	9.815f	3017263	395447	30.239	5.433	#
32)		Chlordane...	7.629	8.198f	588626	399056	33.349	27.583	
33)		Chlordane...	7.684f	8.351f	793856	417339	38.310	33.762	
34)		Chlordane...	8.239f	9.010	1388348	3308655	260.933	914.038	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.684	8.556	793856	1091279	953.677	974.373	
37)		Toxaphene...	7.982	8.906	1453876	1317514	964.854	965.873	
38)		Toxaphene...	8.298	8.942	3092888	2068991	994.381	953.300	
39)		Toxaphene...	8.541	9.010	2982259	3308655	1008.222	1012.574	
40)		Toxaphene...	8.773	9.188	2385429	1879026	1012.867	1009.048	
41)		Toxaphene...	8.842	9.571	3017263	1938338	994.667	957.680	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

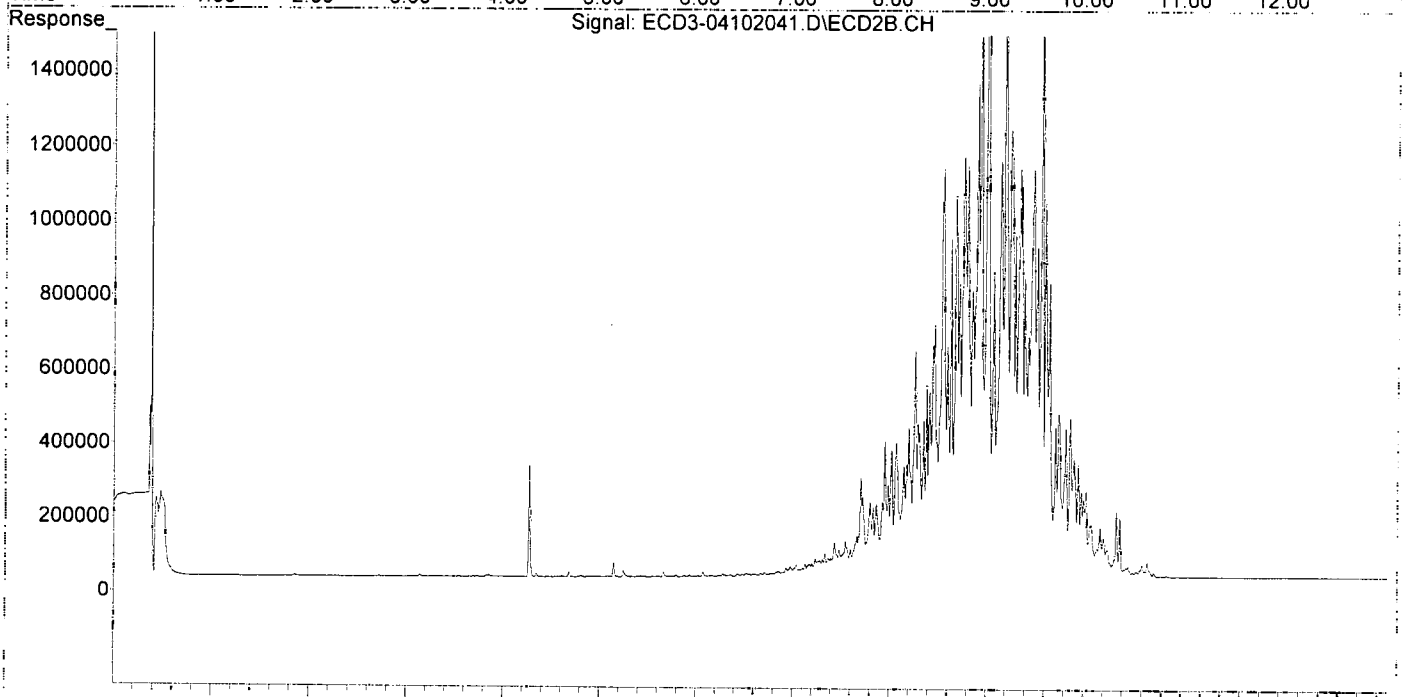
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:39
Operator : MJB
Sample : 0D10031-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:48:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:56
Operator : MJB
Sample : 0D10031-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:48:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/17/20

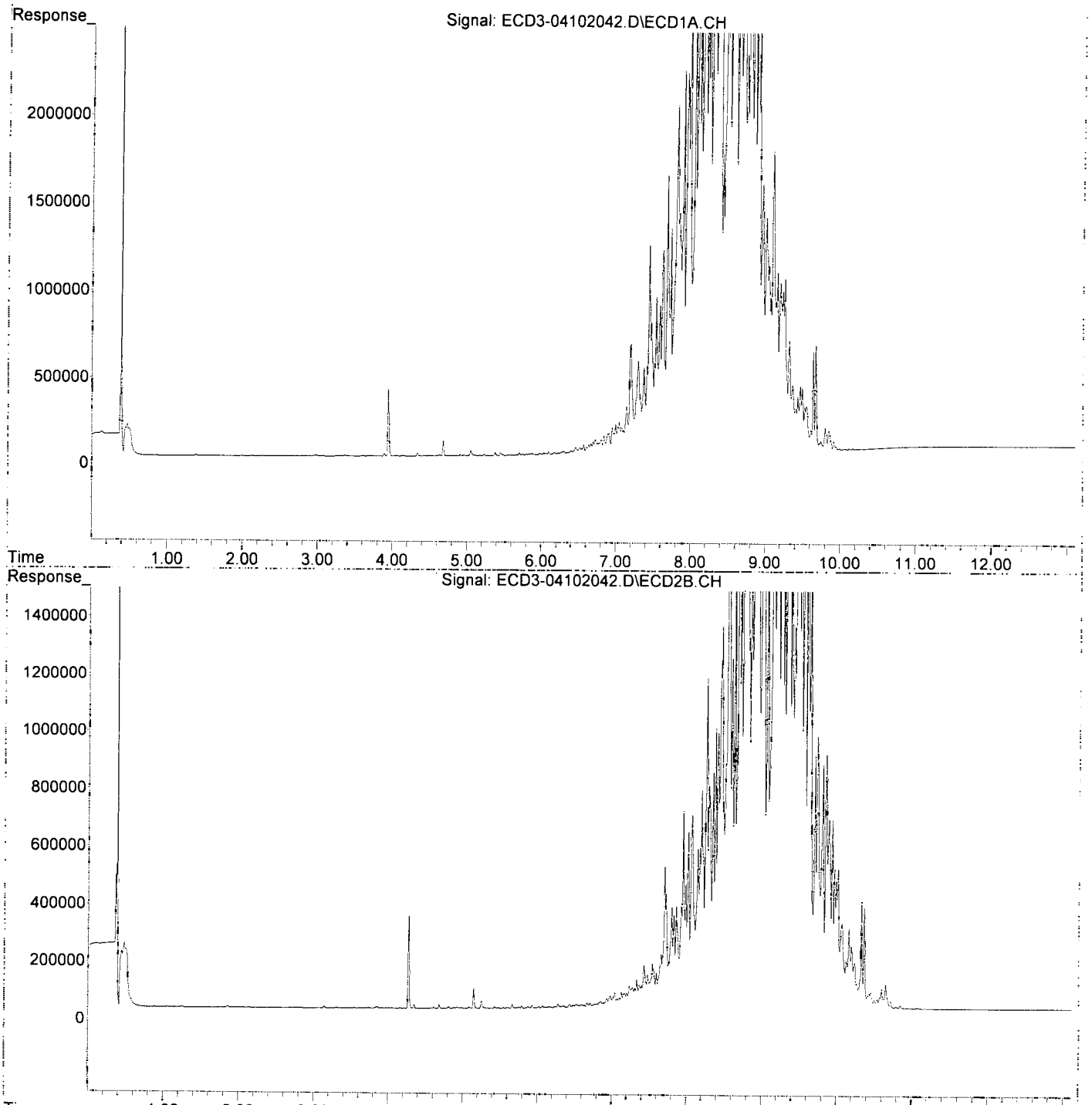
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.572	6.072	4127	8796	0.028	1884.037	#
22)	S	DCBP (S)	9.800	10.652f	131131	82189	0.971	0.975	
		Target Compounds							
2)		a-BHC	6.100	6.669	15280	18465	0.076	0.118	#
3)		g-BHC	6.398	6.980	20364	41714	0.118	0.310	#
4)		b-BHC	6.461	7.041	38326	54079	0.562	0.881	#
5)		Heptachlor	6.805	7.369	79553	80477	0.486	0.711	#
6)		d-BHC	6.636	7.310	53842	70165	0.384	0.574	#
7)		Aldrin	7.047	7.662f	181549	186792	1.083	1.406	
8)		Heptachlo...	7.517	8.070	522983	669462	3.344	5.688	#
9)		trans-Chl...	7.627	8.197f	1172309	752289	7.450	6.238	
10)		cis-Chlor...	7.734f	8.351	1289574	814891	8.215	7.035	
11)		Endosulfa...	7.813	8.382	2000942	970141	13.942	9.021	
12)		4,4'-DDE	7.734f	8.448	1289574	1207828	8.940	10.489	
13)		Dieldrin	7.981	8.595	2869354	1210348	17.854	10.108	#
14)		Endrin	8.168	8.825	4052793	1284859	32.853	14.862	#
15)		4,4'-DDD	8.212	8.855	2842465	1595177	23.413	16.904	
16)		Endosulfa...	8.298	8.942f	6253933	4148392	51.664	45.230	
17)		4,4'-DDT	8.379	9.072	5612153	1689115	57.430	29.171	#
18)		Endrin Al...	8.588	9.188	4434795	3797020	42.784	47.696	
19)		Endosulfa...	8.909	9.390	2475015	1647741	20.546	19.575	
20)		Methoxychlor	8.740	9.571	2282729	4041319	50.378	122.980	#
21)		Endrin Ke...	9.096	9.815	1725245	839675	11.977	8.776	
23)		Hexachlor...	3.359	0.000	5770	0	2108.669	N.D.	#
24)		Hexachlor...	5.978f	6.525	8977	13701	BelowCal	2197.503	
25)		Oxychlordane	7.444	8.020	1202807	609367	9.089	5.967	
26)		2,4'-DDE	7.517	8.197	522983	752289	5.606	9.535	#
27)		trans-Non...	7.683	8.292	1600533	768707	10.967	6.768	
28)		2,4'-DDD	7.899	8.595	2193373	1210348	26.680	17.987	
29)		2,4'-DDT	8.087	8.825	3552920	1284859	47.196	23.954	#
30)		cis-Nonac...	8.168	8.855	4052793	1595177	26.169	13.549	#
31)		Mirex	8.840	9.815f	6273981	839675	63.577	12.024	#
32)		Chlordane...	7.627	8.197f	1172309	752289	66.418	52.000	
33)		Chlordane...	7.683f	8.351f	1600533	814891	77.238	65.922	
34)		Chlordane...	8.238f	9.010	2832380	6693759	532.331	1850.917	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.683	8.556	1600533	2139599	1922.758	1910.388	
37)		Toxaphene...	7.981	8.906	2869354	2728248	1904.226	2000.087	
38)		Toxaphene...	8.298	8.942	6253933	4148392	2010.675	1911.397	
39)		Toxaphene...	8.540	9.010	6177768	6693759	1997.578	1990.057	
40)		Toxaphene...	8.771	9.188	5064912	3797020	2150.591	1992.314	
41)		Toxaphene...	8.840	9.571	6273981	4041319	2068.273	1996.706	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:56
Operator : MJB
Sample : 0D10031-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:48:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Sequence Name: C:\msdchem\3\sequence\0D10031.s
Comment: Pesticides
Operator: MJB
Data Path: C:\MSDCHEM\3\DATA\2020-04\0D10031\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line		Sample Name/Misc Info
1) Sample	1	Hexane
Datafile		ECD3-04102001
Method		ECD3_AQUPEST_140312
2) Sample	1	Hexane
Datafile		ECD3-04102002
Method		ECD3_AQUPEST_140312
3) Sample	2	0D10031-BKD1
Datafile		ECD3-04102003
Method		ECD3_AQUPEST_140312
4) Sample	3	0D10031-ICB1
Datafile		ECD3-04102004
Method		ECD3_AQUPEST_140312
5) Sample	4	0D10031-CAL1
Datafile		ECD3-04102005
Method		ECD3_AQUPEST_140312
6) Sample	5	0D10031-CAL2
Datafile		ECD3-04102006
Method		ECD3_AQUPEST_140312
7) Sample	6	0D10031-CAL3
Datafile		ECD3-04102007
Method		ECD3_AQUPEST_140312
8) Sample	7	0D10031-CAL4
Datafile		ECD3-04102008
Method		ECD3_AQUPEST_140312
9) Sample	8	0D10031-CAL5
Datafile		ECD3-04102009
Method		ECD3_AQUPEST_140312
10) Sample	9	0D10031-CAL6
Datafile		ECD3-04102010
Method		ECD3_AQUPEST_140312
11) Sample	10	0D10031-CAL7
Datafile		ECD3-04102011
Method		ECD3_AQUPEST_140312
12) Sample	11	0D10031-CAL8
Datafile		ECD3-04102012
Method		ECD3_AQUPEST_140312
13) Sample	12	0D10031-CAL9
Datafile		ECD3-04102013
Method		ECD3_AQUPEST_140312
14) Sample	1	0D10031-IBL1
Datafile		ECD3-04102014
Method		ECD3_AQUPEST_140312
15) Sample	13	0D10031-ICV1
Datafile		ECD3-04102015
Method		ECD3_AQUPEST_140312
16) Sample	14	0D10031-CALA
Datafile		ECD3-04102016
Method		ECD3_AQUPEST_140312
17) Sample	15	0D10031-CALB
Datafile		ECD3-04102017
Method		ECD3_AQUPEST_140312
18) Sample	16	0D10031-CALC
Datafile		ECD3-04102018
Method		ECD3_AQUPEST_140312
19) Sample	17	0D10031-CALD
Datafile		ECD3-04102019
Method		ECD3_AQUPEST_140312
20) Sample	18	0D10031-CALE

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Datafile		ECD3-04102020
Method		ECD3_AQUPEST_140312
21) Sample	19	0D10031-CALF
Datafile		ECD3-04102021
Method		ECD3_AQUPEST_140312
22) Sample	20	0D10031-CALG
Datafile		ECD3-04102022
Method		ECD3_AQUPEST_140312
23) Sample	21	0D10031-CALH
Datafile		ECD3-04102023
Method		ECD3_AQUPEST_140312
24) Sample	22	0D10031-CALI
Datafile		ECD3-04102024
Method		ECD3_AQUPEST_140312
25) Sample	1	0D10031-IBL2
Datafile		ECD3-04102025
Method		ECD3_AQUPEST_140312
26) Sample	23	0D10031-ICV2
Datafile		ECD3-04102026
Method		ECD3_AQUPEST_140312
27) Sample	24	0D10031-CALJ
Datafile		ECD3-04102027
Method		ECD3_AQUPEST_140312
28) Sample	25	0D10031-CALK
Datafile		ECD3-04102028
Method		ECD3_AQUPEST_140312
29) Sample	26	0D10031-CALL
Datafile		ECD3-04102029
Method		ECD3_AQUPEST_140312
30) Sample	27	0D10031-CALM
Datafile		ECD3-04102030
Method		ECD3_AQUPEST_140312
31) Sample	28	0D10031-CALN
Datafile		ECD3-04102031
Method		ECD3_AQUPEST_140312
32) Sample	29	0D10031-CALO
Datafile		ECD3-04102032
Method		ECD3_AQUPEST_140312
33) Sample	30	0D10031-CALP
Datafile		ECD3-04102033
Method		ECD3_AQUPEST_140312
34) Sample	1	0D10031-IBL3
Datafile		ECD3-04102034
Method		ECD3_AQUPEST_140312
35) Sample	31	0D10031-ICV3
Datafile		ECD3-04102035
Method		ECD3_AQUPEST_140312
36) Sample	32	0D10031-CALQ
Datafile		ECD3-04102036
Method		ECD3_AQUPEST_140312
37) Sample	33	0D10031-CALR
Datafile		ECD3-04102037
Method		ECD3_AQUPEST_140312
38) Sample	34	0D10031-CALS
Datafile		ECD3-04102038
Method		ECD3_AQUPEST_140312
39) Sample	35	0D10031-CALT
Datafile		ECD3-04102039
Method		ECD3_AQUPEST_140312
40) Sample	36	0D10031-CALU
Datafile		ECD3-04102040
Method		ECD3_AQUPEST_140312
41) Sample	37	0D10031-CALV
Datafile		ECD3-04102041
Method		ECD3_AQUPEST_140312
42) Sample	38	0D10031-CALW
Datafile		ECD3-04102042
Method		ECD3_AQUPEST_140312
43) Sample	1	0D10031-IBL4
Datafile		ECD3-04102043
Method		ECD3_AQUPEST_140312

Sequence Name: C:\msdchem\3\sequence\0D10031.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	39	0D10031-ICV4		
	Datafile		ECD3-04102044		
	Method			ECD3_AQUPEST_140312	

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0D10031 BKD1
Data File: ECD3-04102003.D

First Column Area Counts		Percent Breakdown	
DDE	870897		
DDD	6379977		
DDT	109821158	**6.19**	**PASS**
Endrin	63679609	**12.24**	**PASS**
Endrin Aldehyde	2641231		
Endrin Ketone	6240924		

Second Column Area Counts		Percent Breakdown	
DDE	762058		
DDD	5075373		
DDT	58162978	**9.12**	**PASS**
Endrin	40642632	**12.35**	**PASS**
Endrin Aldehyde	1781204		
Endrin Ketone	3943501		

Breakdown must be less than 15% to accept sample data.

MJB 4/13/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 11:48
Operator : MJB
Sample : 0D10031-BKD1
Misc : A20C091
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:25:26 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410.M
Quant Title : Pesticides
QLast Update : Wed Apr 08 14:20:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.772	870897	NoCal	ng/mL
2)	Endrin	8.153	63679609	NoCal	ng/mL
3)	4,4'-DDD	8.198	6379977	NoCal	ng/mL
4)	4,4'-DDT	8.397	109821158	NoCal	ng/mL
5)	Endrin Aldehyde	8.605	2641231	NoCal	ng/mL
6)	Endrin Ketone	9.107	6240924	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.436	762058	NoCal	ng/mL
9)	Endrin [2C]	8.811	40642632	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.854	5075373	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.198	1781204	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.083	58162978	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.793	3943501	NoCal	ng/mL

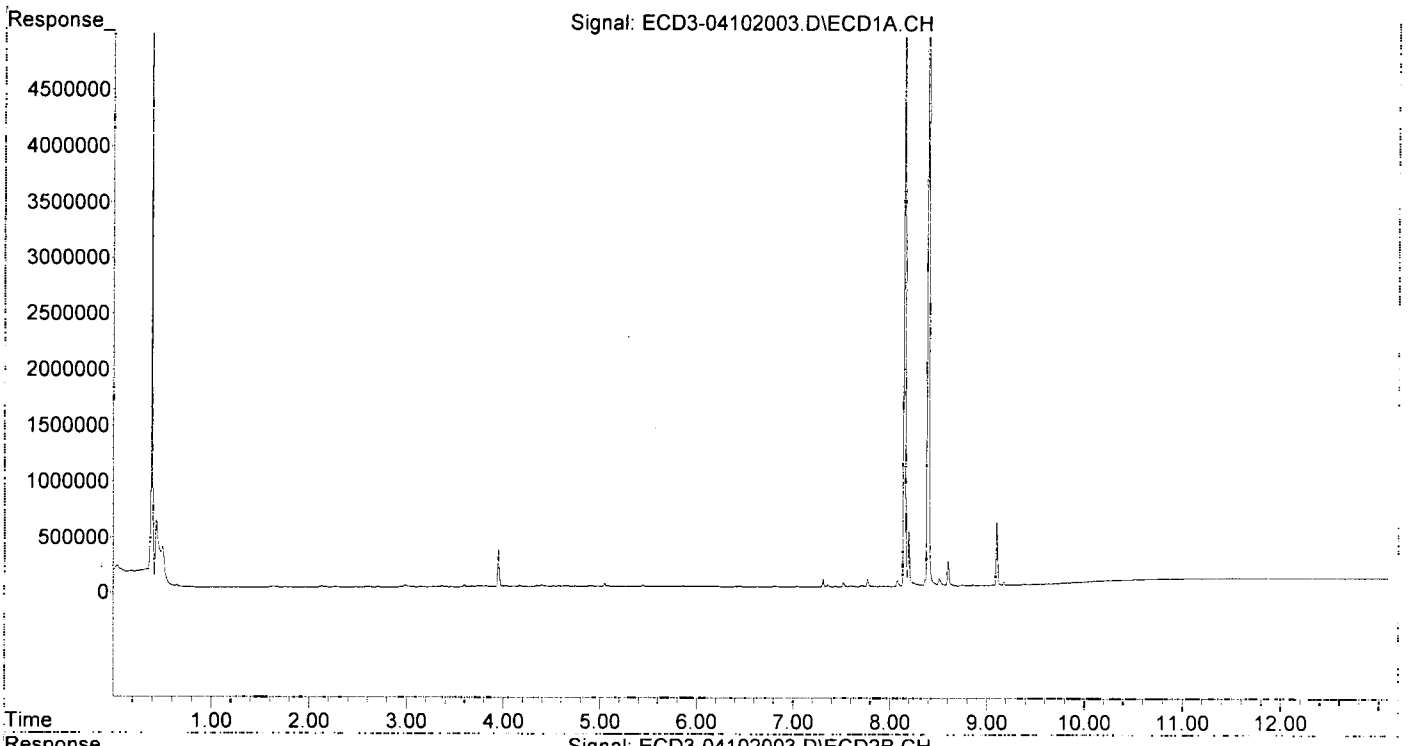
(f)=RT Delta > 1/2 Window (m)=manual int.

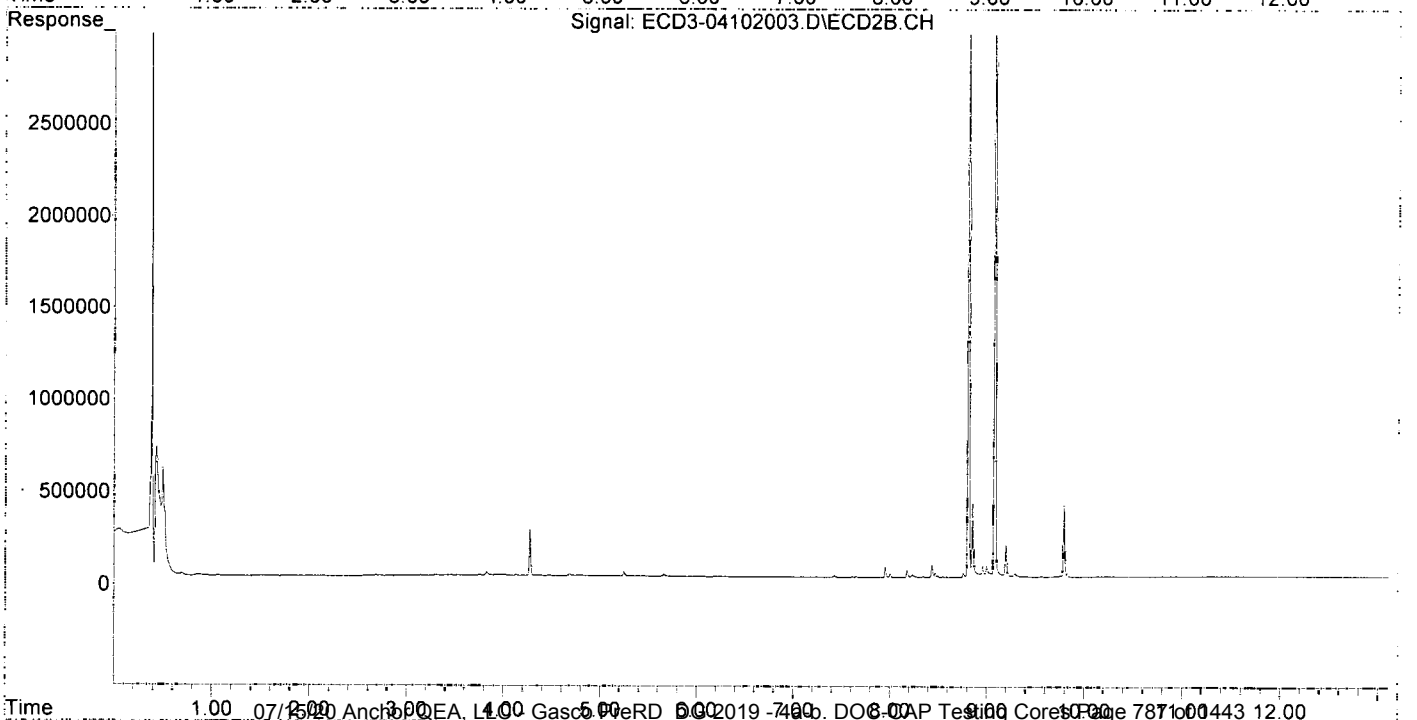
MJB 4/13/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 11:48
Operator : MJB
Sample : 0D10031-BKD1
Misc : A20C091
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:25:26 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410.M
Quant Title : Pesticides
QLast Update : Wed Apr 08 14:20:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:36:59 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

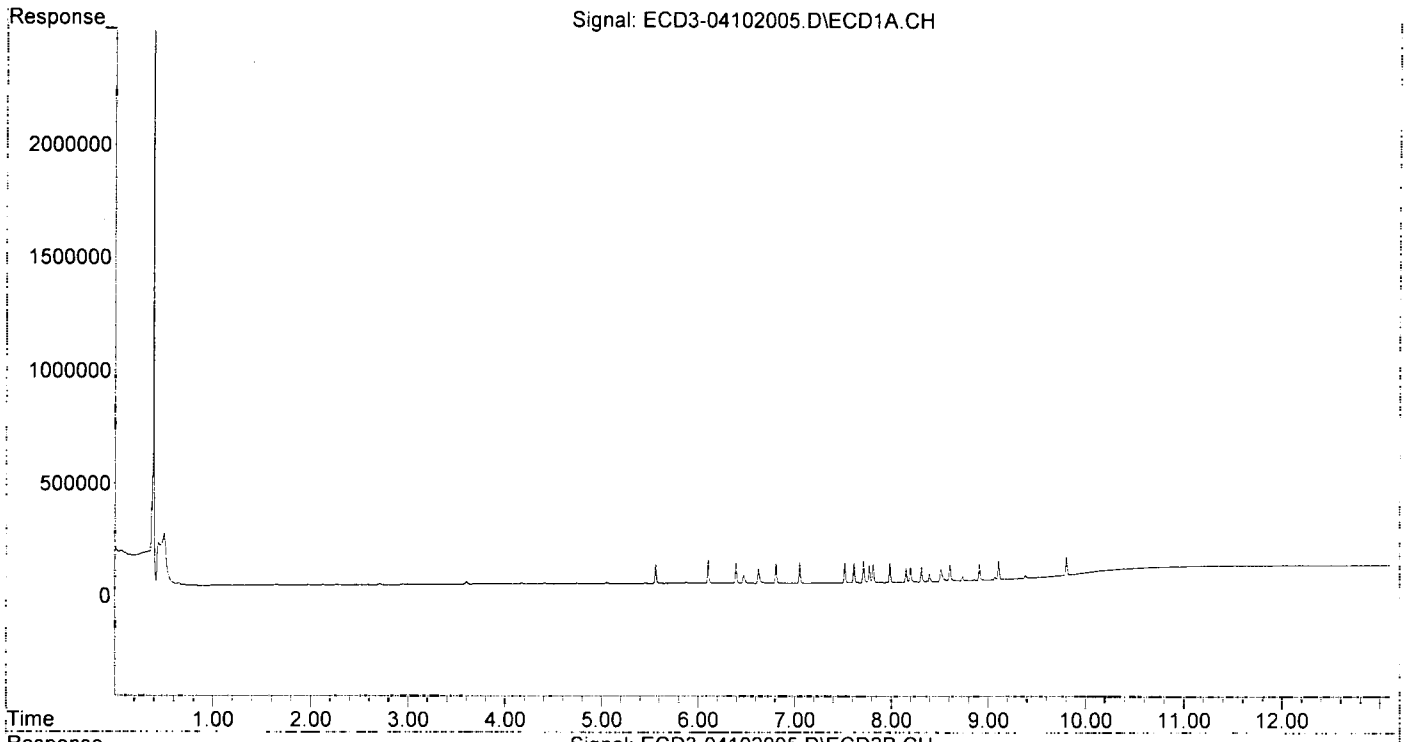
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.561	6.060	85749	73007	0.495	0.475
22) S	DCBP (S)	9.806	10.678	78745	50449	0.437	0.716 #
	Target Compounds						
2)	a-BHC	6.107	6.672	106090	87452	0.473	0.787 #
3)	g-BHC	6.394	6.993	91195	75918	0.459	0.689 #
4)	b-BHC	6.474	7.059	37211	37170	0.406	0.649 #
5)	Heptachlor	6.809	7.371	88422	63633	0.498	0.633
6)	d-BHC	6.628	7.317	66268	66365	0.340	0.598 #
7)	Aldrin	7.054	7.640	92070	76126	0.488	0.696 #
8)	Heptachlo...	7.520	8.081	91327	69830	0.523	0.763 #
9)	trans-Chl...	7.617	8.222	87797	71156	0.488	0.570
10)	cis-Chlor...	7.714	8.330	98925	70102	0.567	0.726
11)	Endosulfa...	7.815	8.382	82435	65843	0.513	0.735 #
12)	4,4'-DDE	7.774	8.437	76638	64334	0.430	0.685 #
13)	Dieldrin	7.988	8.584	86632	68980	0.484	0.689 #
14)	Endrin	8.155	8.813	63369	47079	0.474	0.661
15)	4,4'-DDD	8.201	8.857	67675	58722	0.458	0.760 #
16)	Endosulfa...	8.315	8.962	67076	55230	0.470	0.707 #
17)	4,4'-DDT	8.399	9.084	37407	24779	0.312	0.484 #
18)	Endrin Al...	8.608	9.201	73553	58732	0.358	0.629 #
19)	Endosulfa...	8.913	9.392	72456	50159	0.505	0.495
20)	Methoxychlor	8.738	9.568	19411	11909	0.316	0.448 #
21)	Endrin Ke...	9.110	9.796	83435	57366	0.509	0.785 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

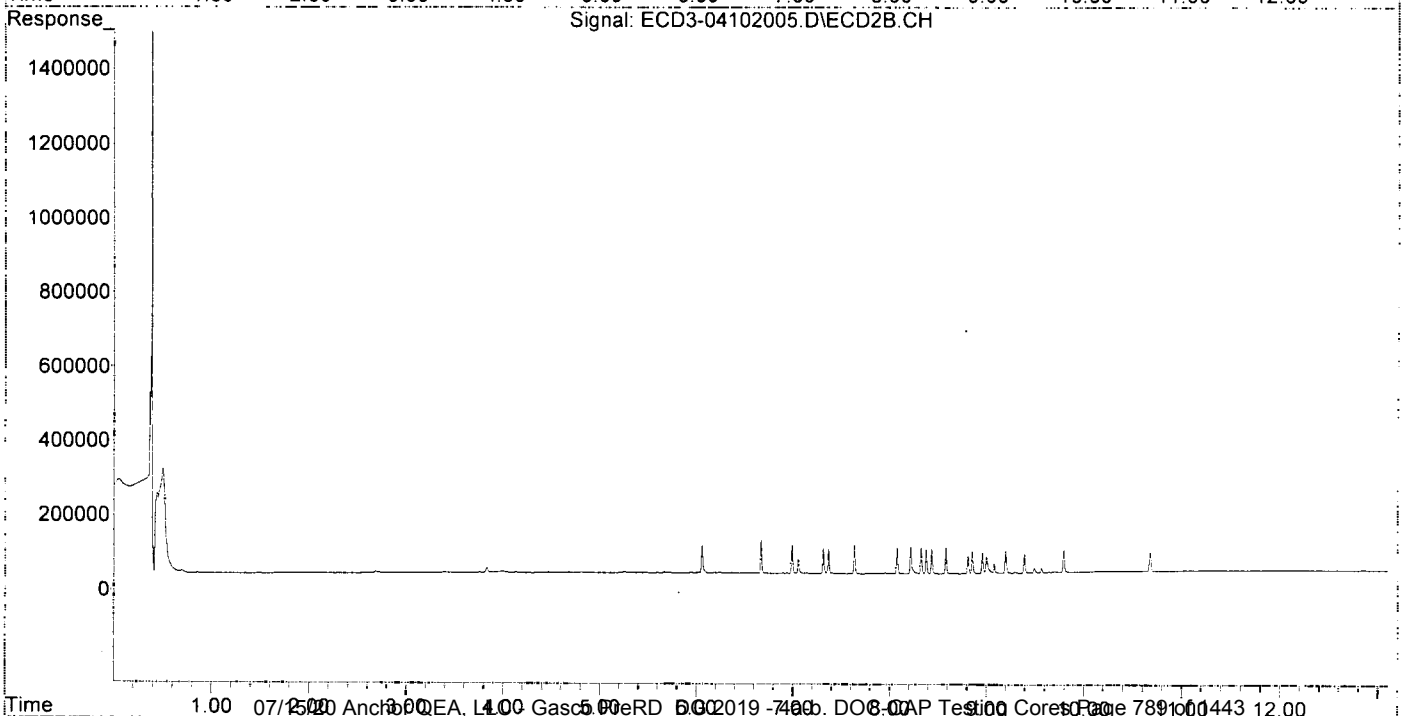
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:36:59 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:39
Operator : MJB
Sample : 0D10031-CAL2
Misc : A20D134, AB 1 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:37:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

AJB 4/13/20

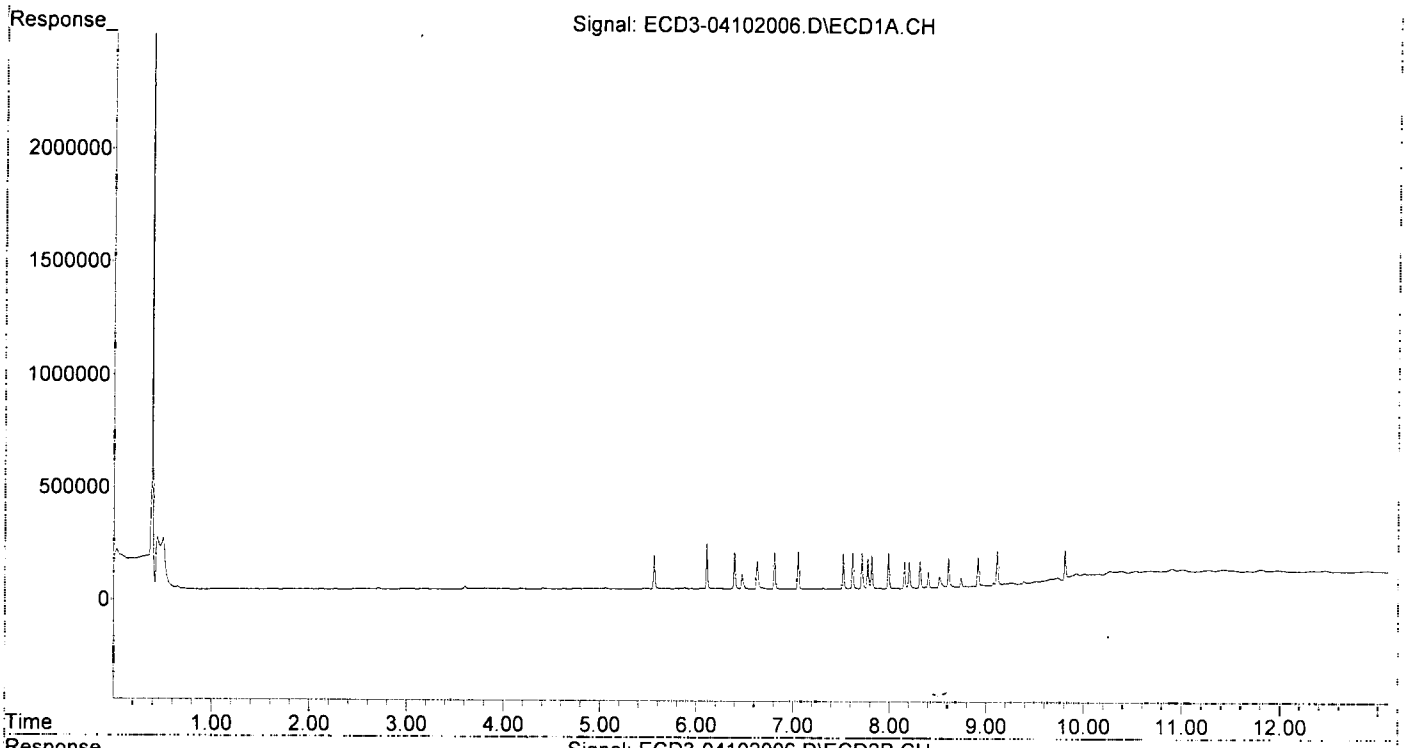
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.562	6.061	150599	127191	0.870	0.954
22) S	DCBP (S)	9.808	10.679	135418	81619	0.888	1.291 #
	Target Compounds						
2)	a-BHC	6.107	6.672	198771	160189	0.886	1.442 #
3)	g-BHC	6.394	6.994	162951	137359	0.820	1.364 #
4)	b-BHC	6.474	7.060	66101	66254	0.721	1.322 #
5)	Heptachlor	6.809	7.371	162313	116127	0.915	1.283 #
6)	d-BHC	6.628	7.317	123295	118368	0.633	1.165 #
7)	Aldrin	7.054	7.640	165393	136778	0.876	1.250 #
8)	Heptachlo...	7.521	8.082	160396	122009	0.919	1.332 #
9)	trans-Chl...	7.617	8.223	160412	126502	0.892	1.143
10)	cis-Chlor...	7.715	8.331	162363	124533	0.931	1.291
11)	Endosulfa...	7.816	8.383	145356	110124	0.905	1.228
12)	4,4'-DDE	7.775	8.438	132356	115967	0.742	1.235 #
13)	Dieldrin	7.988	8.585	160736	120867	0.897	1.208
14)	Endrin	8.156	8.815	118800	86799	0.888	1.219
15)	4,4'-DDD	8.202	8.858	118335	101471	0.793	1.416 #
16)	Endosulfa...	8.316	8.964	119697	95182	0.840	1.219 #
17)	4,4'-DDT	8.400	9.085	73450	49721	0.614	0.971 #
18)	Endrin Al...	8.609	9.203	127313	100085	0.791	1.237 #
19)	Endosulfa...	8.913	9.393	126416	88344	0.880	1.018
20)	Methoxychlor	8.739	9.568	39011	24923	0.635	0.938 #
21)	Endrin Ke...	9.111	9.797	152949	100622	0.933	1.377 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

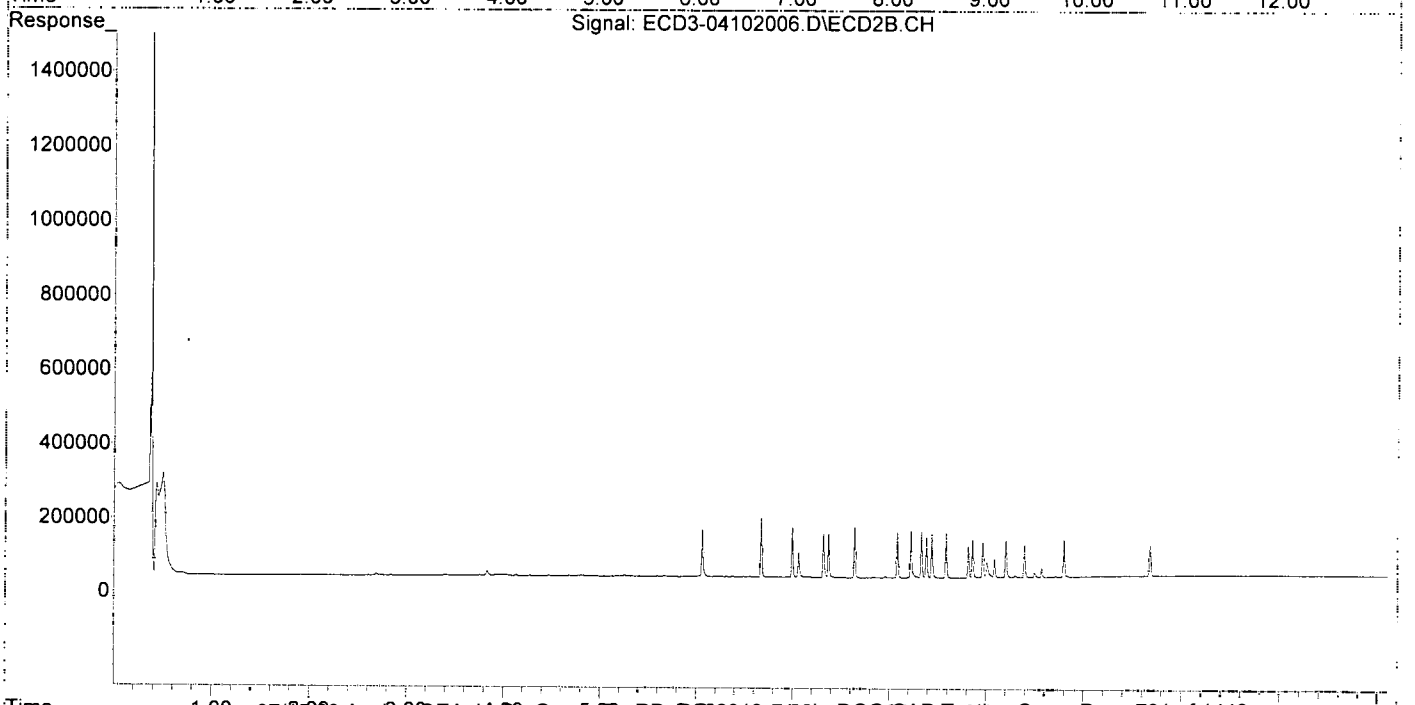
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:39
Operator : MJB
Sample : 0D10031-CAL2
Misc : A20D134, AB 1 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:37:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:56
Operator : MJB
Sample : 0D10031-CAL3
Misc : A20C179, AB 2 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:38:13 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

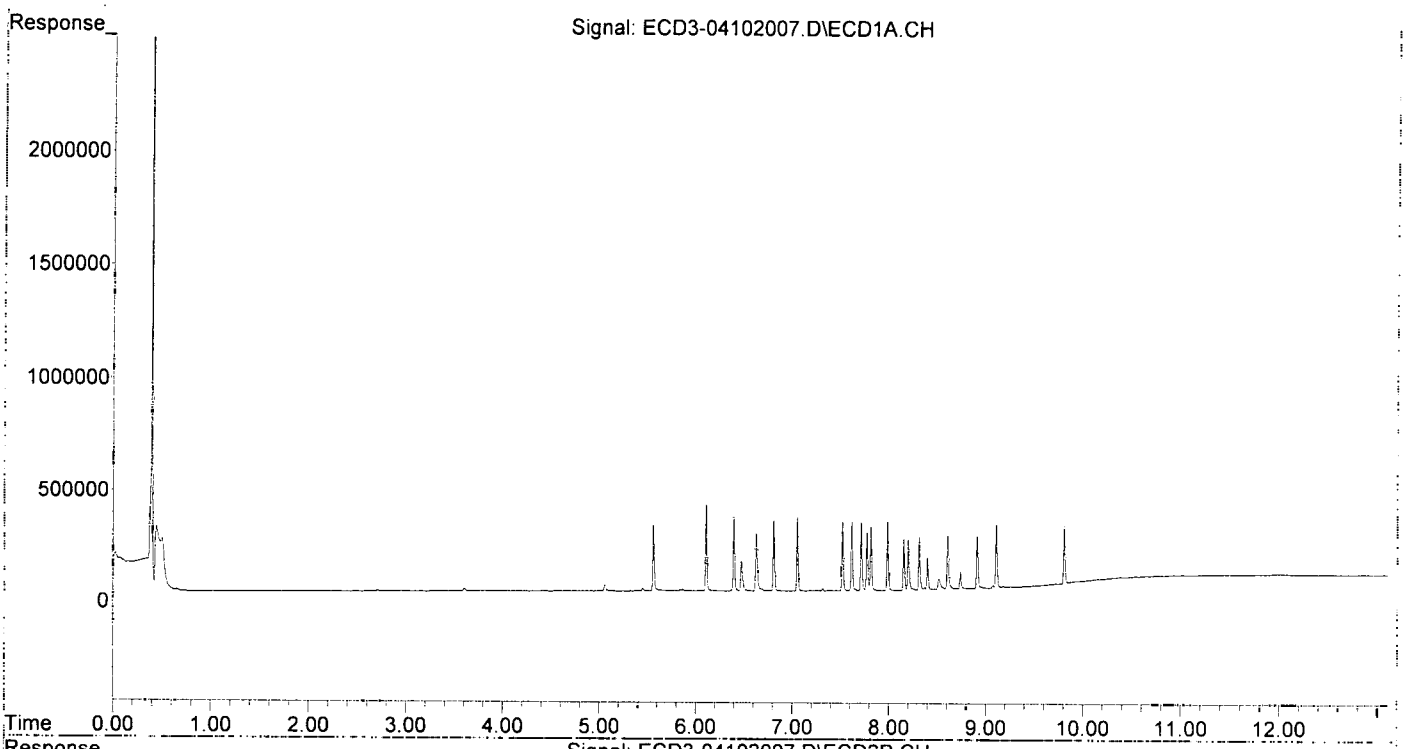
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.562	6.061	294629	242169	1.702	1.971
22) S	DCBP (S)	9.807	10.679	249594	153175	1.796	2.610 #
	Target Compounds						
2)	a-BHC	6.107	6.673	386030	318129	1.721	2.863 #
3)	g-BHC	6.395	6.994	330735	271046	1.665	2.834 #
4)	b-BHC	6.473	7.059	133460	127912	1.456	2.749 #
5)	Heptachlor	6.809	7.371	311735	223319	1.756	2.614 #
6)	d-BHC	6.628	7.317	258031	234036	1.324	2.427 #
7)	Aldrin	7.054	7.640	330949	268918	1.753	2.458 #
8)	Heptachlo...	7.521	8.082	311852	241069	1.787	2.632 #
9)	trans-Chl...	7.617	8.223	308851	240690	1.717	2.324
10)	cis-Chlor...	7.714	8.331	309955	235252	1.777	2.438
11)	Endosulfa...	7.815	8.382	284291	219822	1.770	2.452
12)	4,4'-DDE	7.774	8.438	264579	230910	1.484	2.459 #
13)	Dieldrin	7.988	8.585	311986	236771	1.742	2.366
14)	Endrin	8.155	8.814	233183	167127	1.744	2.347
15)	4,4'-DDD	8.201	8.857	229102	184447	1.534	2.690 #
16)	Endosulfa...	8.315	8.963	233441	182611	1.637	2.339 #
17)	4,4'-DDT	8.399	9.085	145442	89330	1.215	1.744 #
18)	Endrin Al...	8.608	9.202	237806	191739	1.680	2.584 #
19)	Endosulfa...	8.913	9.393	233112	166426	1.623	2.086
20)	Methoxychlor	8.739	9.568	74306	46818	1.209	1.763 #
21)	Endrin Ke...	9.110	9.797	285336	188983	1.741	2.586 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

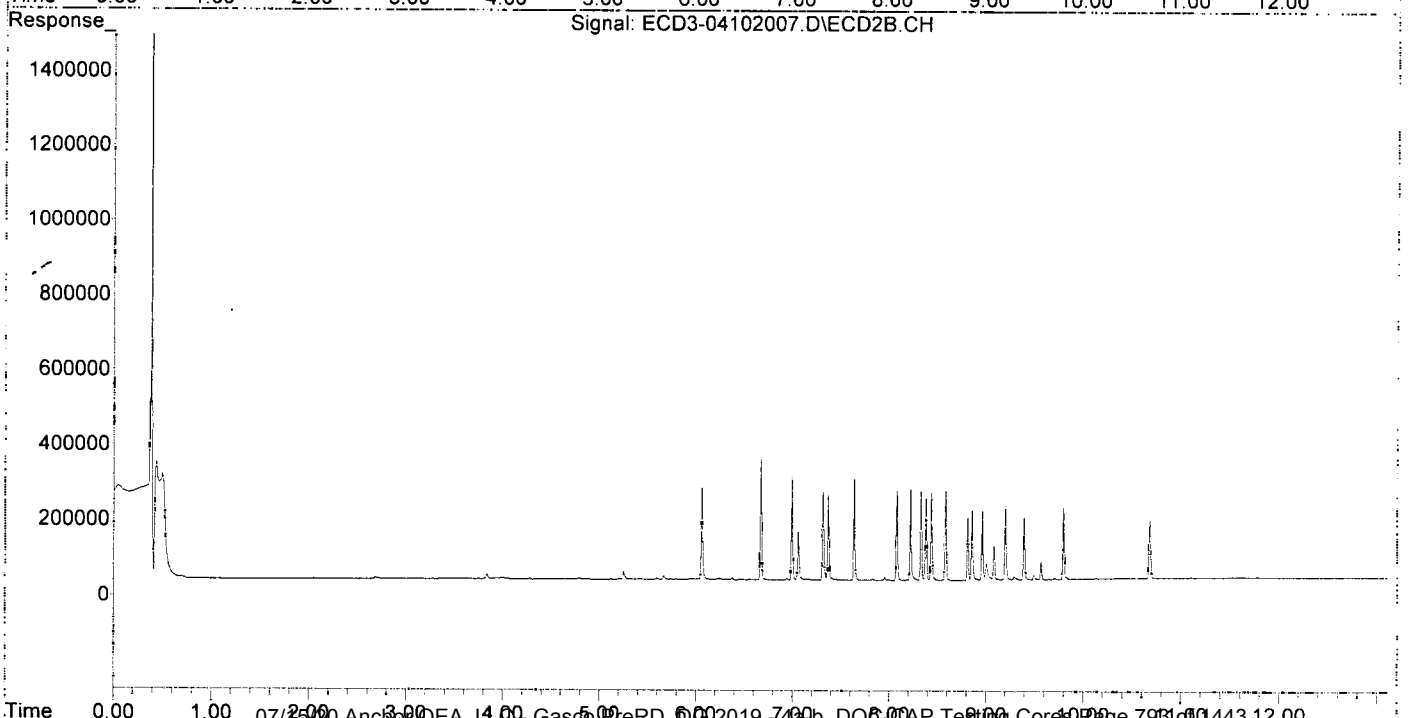
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:56
Operator : MJB
Sample : 0D10031-CAL3
Misc : A20C179, AB 2 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:38:13 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:14
Operator : MJB
Sample : 0D10031-CAL4
Misc : A20C180, AB 5 ppb
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:38:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

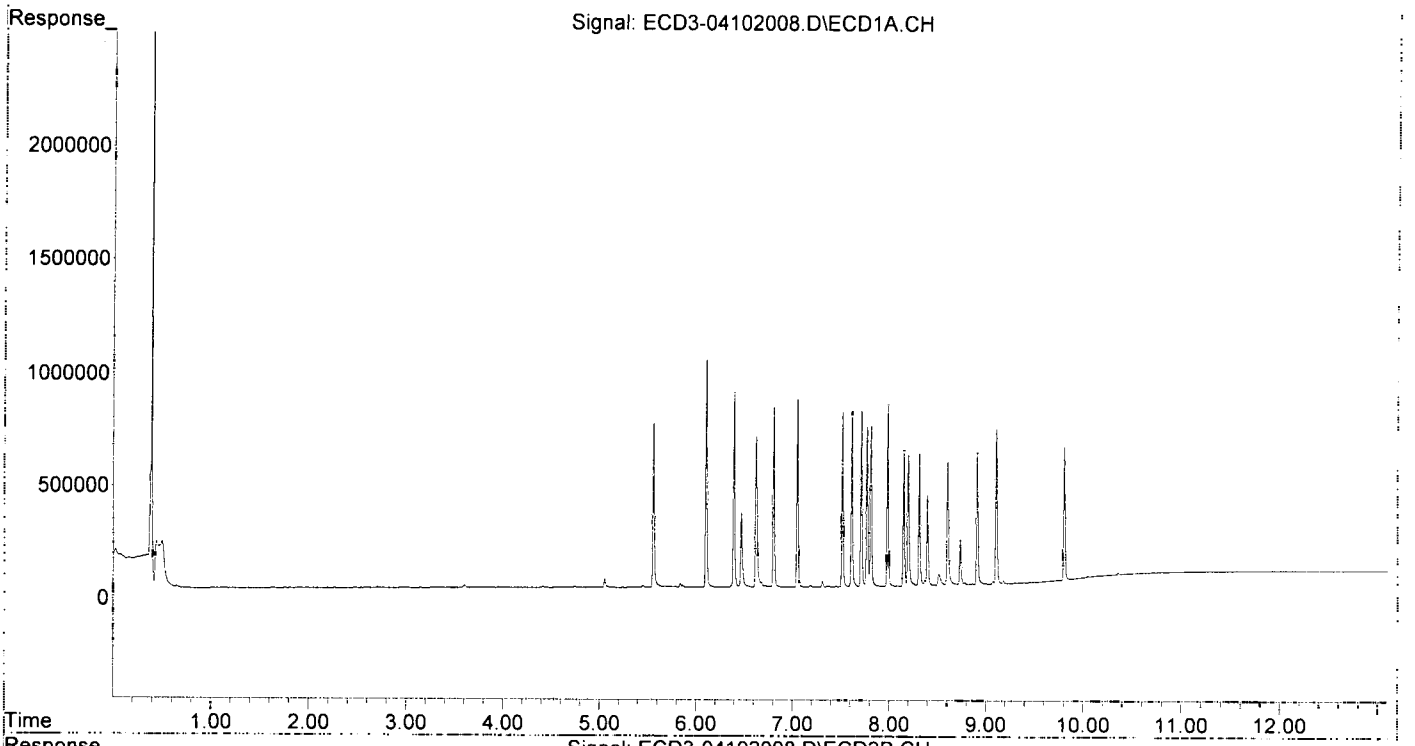
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.561	6.061	727524	601812	4.202	5.159	
22)	S	DCBP (S)	9.806	10.678	587016	364366	4.483	6.507	#
		Target Compounds							
2)		a-BHC	6.107	6.673	1011773	809491	4.512	7.285	#
3)		g-BHC	6.395	6.994	864784	673024	4.354	7.268	#
4)		b-BHC	6.472	7.059	326774	302941	3.566	6.814	#
5)		Heptachlor	6.808	7.371	799546	564693	4.505	6.863	#
6)		d-BHC	6.626	7.317	669294	620859	3.434	6.662	#
7)		Aldrin	7.052	7.640	838045	699880	4.438	6.397	#
8)		Heptachlo...	7.520	8.082	780587	590771	4.472	6.451	#
9)		trans-Chl...	7.616	8.223	779273	605591	4.332	6.104	#
10)		cis-Chlor...	7.714	8.331	784009	585259	4.496	6.065	
11)		Endosulfa...	7.815	8.382	712441	546125	4.434	6.092	
12)		4,4'-DDE	7.774	8.438	712814	584778	3.998	6.229	#
13)		Dieldrin	7.987	8.584	805257	602273	4.496	6.018	
14)		Endrin	8.155	8.814	600774	419756	4.493	5.895	
15)		4,4'-DDD	8.201	8.857	580403	466489	3.887	7.032	#
16)		Endosulfa...	8.314	8.963	589436	453168	4.134	5.805	#
17)		4,4'-DDT	8.399	9.085	402575	260165	3.363	5.081	#
18)		Endrin Al...	8.608	9.201	545702	424119	4.161	6.003	#
19)		Endosulfa...	8.913	9.393	580327	407094	4.041	5.378	
20)		Methoxychlor	8.738	9.568	204727	127410	3.332	4.797	#
21)		Endrin Ke...	9.110	9.797	688717	464140	4.203	6.350	#
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d	
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d	
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d	
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d	
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d	
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d	
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

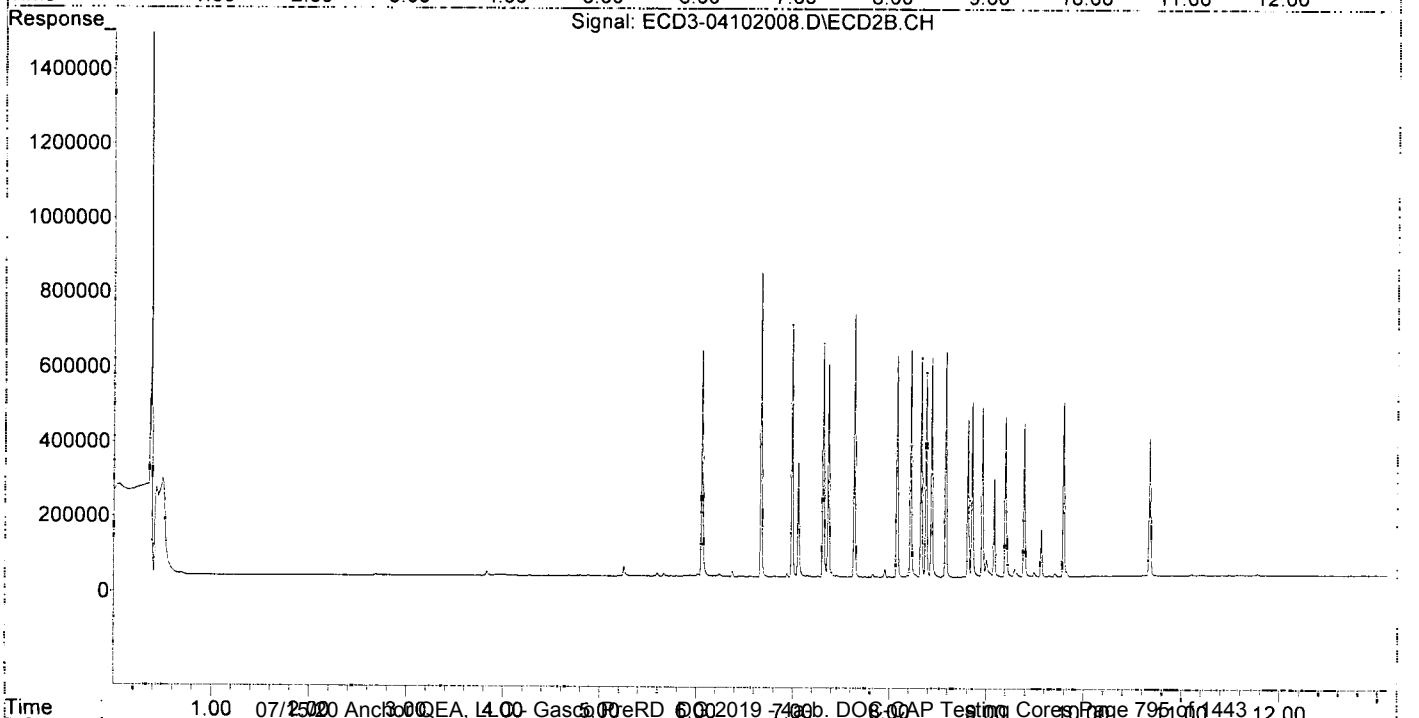
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:14
Operator : MJB
Sample : 0D10031-CAL4
Misc : A20C180, AB 5 ppb
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:38:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:31
Operator : MJB
Sample : 0D10031-CAL5
Misc : A20C181, AB 10 ppb
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:39:30 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

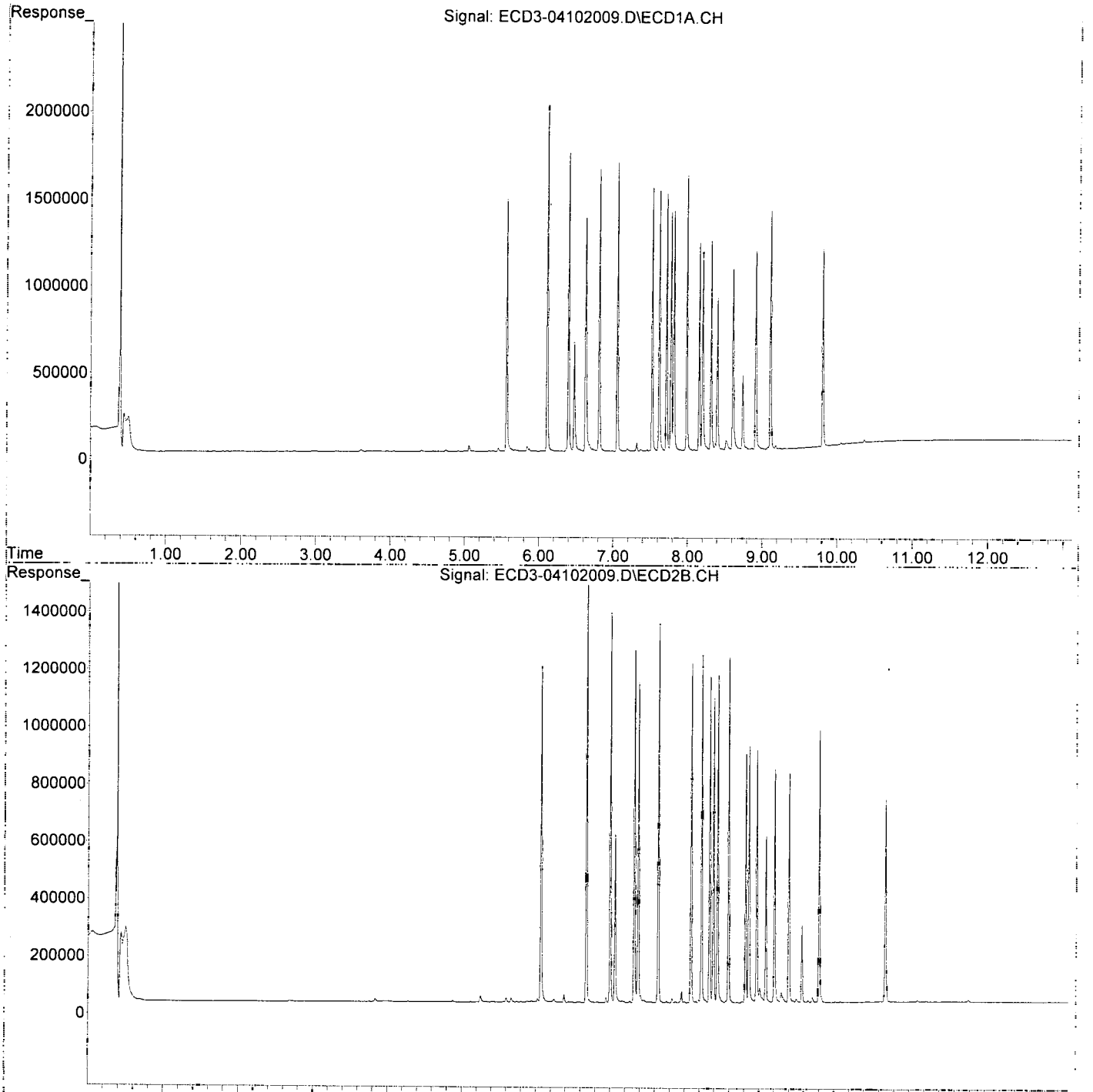
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.563	6.062	1449955	1164651	8.375	10.166
22) S	DCBP (S)	9.808	10.679	1130527	701737	8.819	12.745 #
	Target Compounds						
2)	a-BHC	6.109	6.674	1992062	1592422	8.883	14.330 #
3)	g-BHC	6.395	6.994	1722298	1349252	8.671	14.771 #
4)	b-BHC	6.473	7.059	621775	583118	6.785	13.363 #
5)	Heptachlor	6.809	7.372	1629185	1105625	9.179	13.635 #
6)	d-BHC	6.627	7.317	1348815	1223432	6.920	13.302 #
7)	Aldrin	7.054	7.641	1665359	1316403	8.820	12.032
8)	Heptachlo...	7.521	8.082	1525229	1175438	8.739	12.836 #
9)	trans-Chl...	7.617	8.223	1502883	1202264	8.355	12.309 #
10)	cis-Chlor...	7.714	8.332	1485434	1131819	8.518	11.729
11)	Endosulfa...	7.815	8.383	1386208	1056492	8.628	11.786
12)	4,4'-DDE	7.774	8.438	1382476	1137288	7.754	12.114 #
13)	Dieldrin	7.988	8.585	1588078	1196698	8.867	11.957
14)	Endrin	8.156	8.815	1200412	862016	8.978	12.106
15)	4,4'-DDD	8.201	8.857	1143858	889692	7.661	13.578 #
16)	Endosulfa...	8.315	8.963	1207633	876423	8.470	11.226
17)	4,4'-DDT	8.399	9.085	875483	578694	7.313	11.301 #
18)	Endrin Al...	8.608	9.202	1043139	811442	8.174	11.711 #
19)	Endosulfa...	8.913	9.393	1141536	796875	7.949	10.711
20)	Methoxychlor	8.739	9.568	427742	269363	6.962	10.141 #
21)	Endrin Ke...	9.111	9.797	1381099	942335	8.427	12.892 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:31
Operator : MJB
Sample : 0D10031-CAL5
Misc : A20C181, AB 10 ppb
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:39:30 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:48
Operator : MJB
Sample : 0D10031-CAL6
Misc : A20C182, AB 25 ppb
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:40:02 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

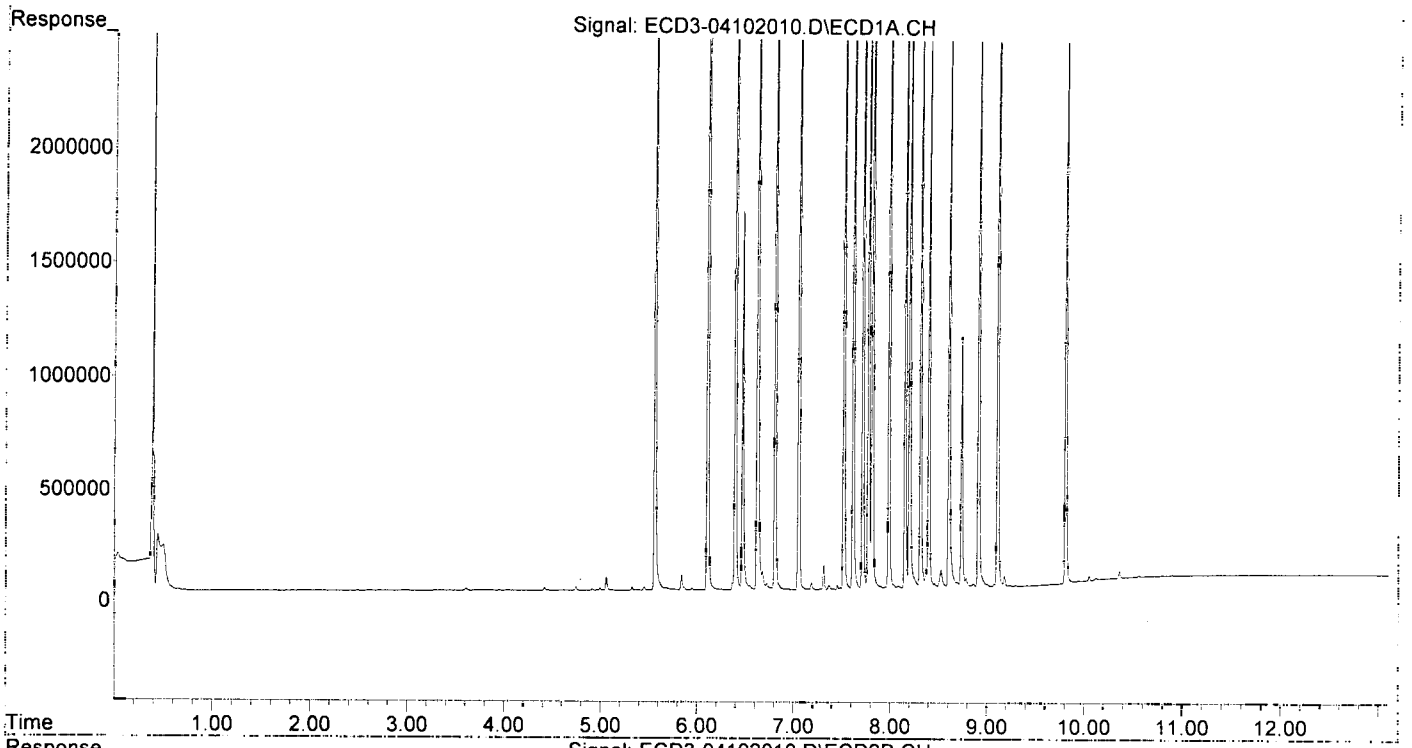
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.562	6.061	3620730	2793596	20.914	24.796
22)	S	DCBP (S)	9.807	10.679	2727108	1659485	21.610	30.582 #
		Target Compounds						
2)		a-BHC	6.108	6.673	4970390	3891920	22.164	35.023 #
3)		g-BHC	6.395	6.994	4292566	3362986	21.611	37.466 #
4)		b-BHC	6.471	7.058	1680896	1441819	18.342	33.762 #
5)		Heptachlor	6.808	7.371	3984158	2769954	22.448	34.782 #
6)		d-BHC	6.624	7.315	3518783	3102871	18.053	34.358 #
7)		Aldrin	7.053	7.640	4119405	3247513	21.816	29.681
8)		Heptachlo...	7.520	8.082	3754002	2836226	21.509	30.971 #
9)		trans-Chl...	7.616	8.223	3815437	2978658	21.210	30.947 #
10)		cis-Chlor...	7.713	8.331	3703571	2773817	21.237	28.744
11)		Endosulfa...	7.814	8.382	3466454	2611533	21.576	29.133
12)		4,4'-DDE	7.773	8.437	3675424	2877432	20.614	30.648 #
13)		Dieldrin	7.987	8.585	3986579	2919821	22.258	29.175
14)		Endrin	8.155	8.814	3047888	2128761	22.795	29.896
15)		4,4'-DDD	8.200	8.857	3056605	2212251	20.472	34.284 #
16)		Endosulfa...	8.314	8.962	2966130	2201693	20.805	28.202
17)		4,4'-DDT	8.399	9.085	2456263	1496497	20.517	29.225 #
18)		Endrin Al...	8.607	9.201	2573122	1952460	20.547	28.591
19)		Endosulfa...	8.913	9.393	2840981	2020111	19.782	27.447
20)		Methoxychlor	8.737	9.568	1114647	689159	18.142	25.945 #
21)		Endrin Ke...	9.110	9.797	3445975	2250304	21.027	30.787 #
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

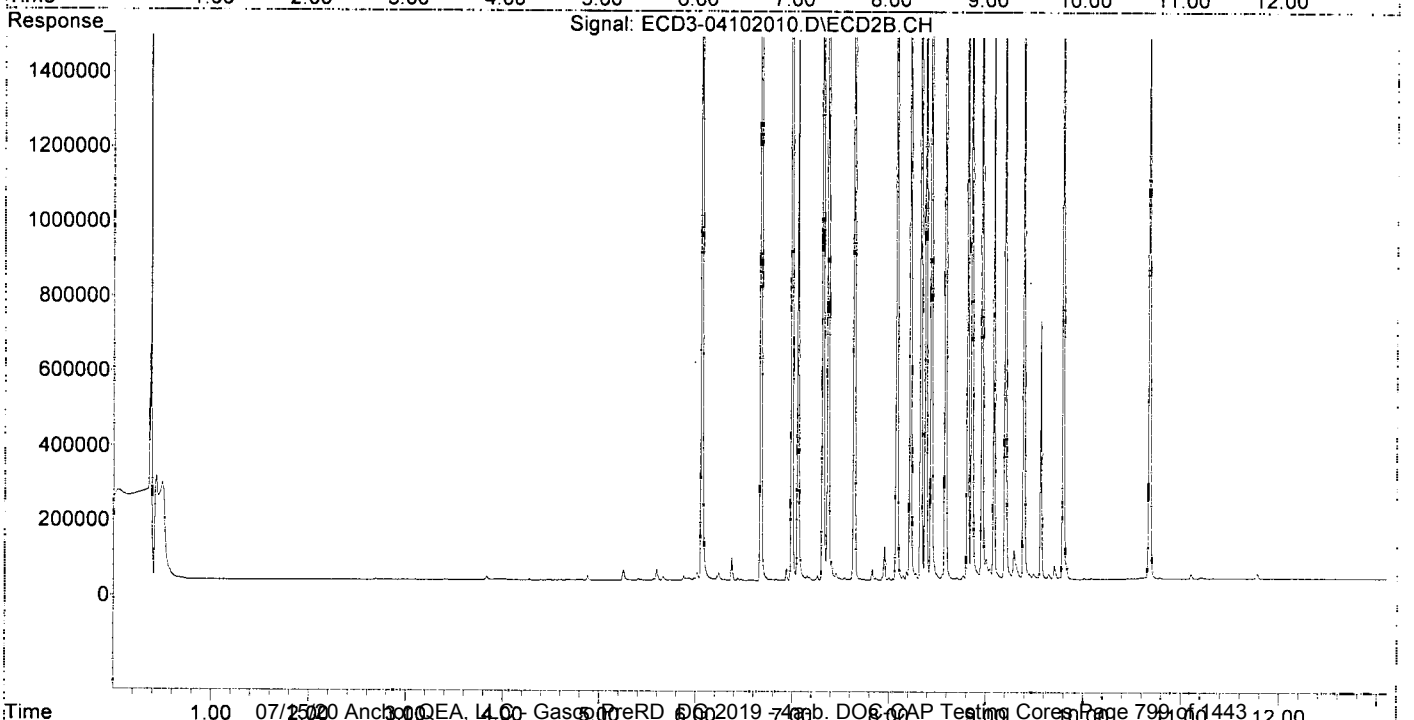
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:48
Operator : MJB
Sample : 0D10031-CAL6
Misc : A20C182, AB 25 ppb
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:40:02 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:05
Operator : MJB
Sample : 0D10031-CAL7
Misc : A20C183, AB 50 ppb
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:35:11 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Mar 09 12:29:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

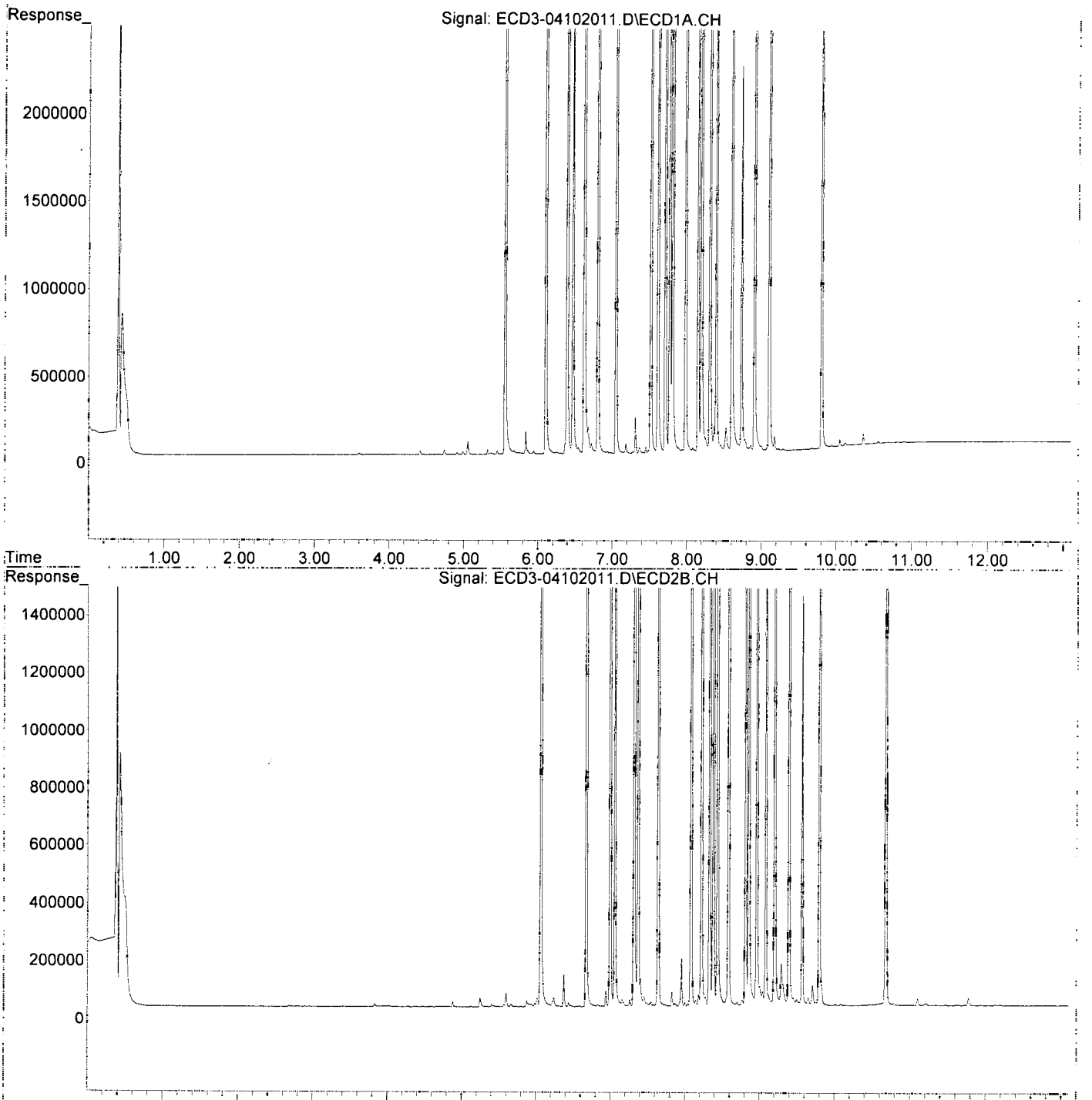
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.562	6.062	6908561	5350810	39.904	48.186
22)	S	DCBP (S)	9.807	10.679	5172590	3177027	41.363	58.960 #
		Target Compounds						
2)		a-BHC	6.108	6.674	9856715	7382419	43.952	66.434 #
3)		g-BHC	6.395	6.994	8390299	6395054	42.241	72.694 #
4)		b-BHC	6.470	7.058	3275829	2819965	35.746	67.617 #
5)		Heptachlor	6.808	7.372	7786801	5432137	43.873	69.656 #
6)		d-BHC	6.624	7.316	7200622	5907599	36.942	66.832 #
7)		Aldrin	7.053	7.640	7862388	6276155	41.639	57.362
8)		Heptachlo...	7.520	8.082	7294406	5446885	41.794	59.479 #
9)		trans-Chl...	7.615	8.222	7465806	5551909	41.503	58.408 #
10)		cis-Chlor...	7.713	8.331	7133255	5236394	40.904	54.263
11)		Endosulfa...	7.814	8.382	6731758	4951225	41.900	55.234
12)		4,4'-DDE	7.772	8.437	7150986	5427651	40.107	57.811 #
13)		Dieldrin	7.987	8.584	7608328	5672261	42.479	56.678
14)		Endrin	8.154	8.814	6088856	4168787	45.538	58.545
15)		4,4'-DDD	8.200	8.856	5813915	4432731	38.939	69.945 #
16)		Endosulfa...	8.313	8.962	5720662	4306868	40.125	55.168
17)		4,4'-DDT	8.399	9.084	5090784	3189186	42.522	62.281 #
18)		Endrin Al...	8.607	9.201	4966378	3803916	40.003	56.190 #
19)		Endosulfa...	8.912	9.392	5681676	3917488	39.562	53.410
20)		Methoxychlor	8.738	9.568	2212679	1415590	36.013	53.293 #
21)		Endrin Ke...	9.109	9.797	6843717	4537747	41.760	62.082 #
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:05
Operator : MJB
Sample : 0D10031-CAL7
Misc : A20C183, AB 50 ppb
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:35:11 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Mar 09 12:29:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:22
Operator : MJB
Sample : 0D10031-CAL8
Misc : A20C184, AB 100 ppb
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:40:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

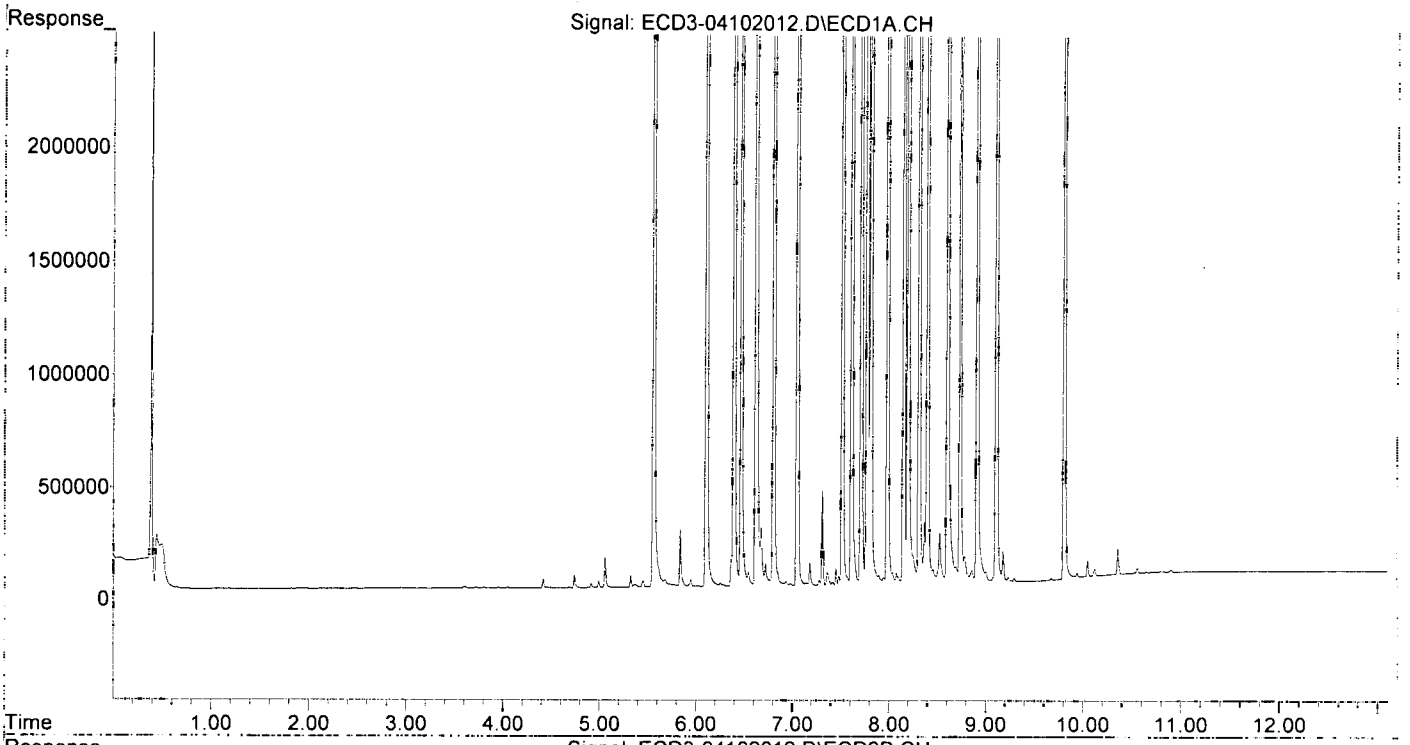
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.562	6.062	14508961	10942666	83.805	101.311
22) S	DCBP (S)	9.807	10.679	10967512	6496705	88.980	122.240
	Target Compounds						
2)	a-BHC	6.108	6.673	20690311	15054052	92.261	135.470 #
3)	g-BHC	6.395	6.994	17852129	13117531	89.877	156.083 #
4)	b-BHC	6.470	7.058	7197743	5838273	78.541	147.476 #
5)	Heptachlor	6.808	7.371	16932118	10998035	95.400	147.404 #
6)	d-BHC	6.623	7.315	15654391	12327900	80.314	146.792 #
7)	Aldrin	7.052	7.640	16874638	12626262	89.368	115.400
8)	Heptachlo...	7.518	8.081	15381959	11258743	88.132	122.943
9)	trans-Chl...	7.614	8.222	15938657	11619020	88.604	125.506 #
10)	cis-Chlor...	7.712	8.330	15103841	10960125	86.609	113.577
11)	Endosulfa...	7.813	8.382	14072419	10161726	87.590	113.360
12)	4,4'-DDE	7.772	8.437	15292864	11367630	85.771	121.079 #
13)	Dieldrin	7.986	8.584	16300118	11853447	91.008	118.440
14)	Endrin	8.154	8.814	12878104	8690942	96.814	122.053
15)	4,4'-DDD	8.198	8.856	12428792	9158353	83.242	150.088 #
16)	Endosulfa...	8.312	8.962	12147287	8759068	85.202	112.197
17)	4,4'-DDT	8.398	9.085	11118672	7015904	92.872	137.012 #
18)	Endrin Al...	8.606	9.201	10213956	7859690	83.099	117.588 #
19)	Endosulfa...	8.911	9.393	11882557	8368447	82.740	114.332
20)	Methoxychlor	8.736	9.568	5195602	3310270	84.561	124.622 #
21)	Endrin Ke...	9.109	9.797	13903939	9234850	84.841	126.344 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

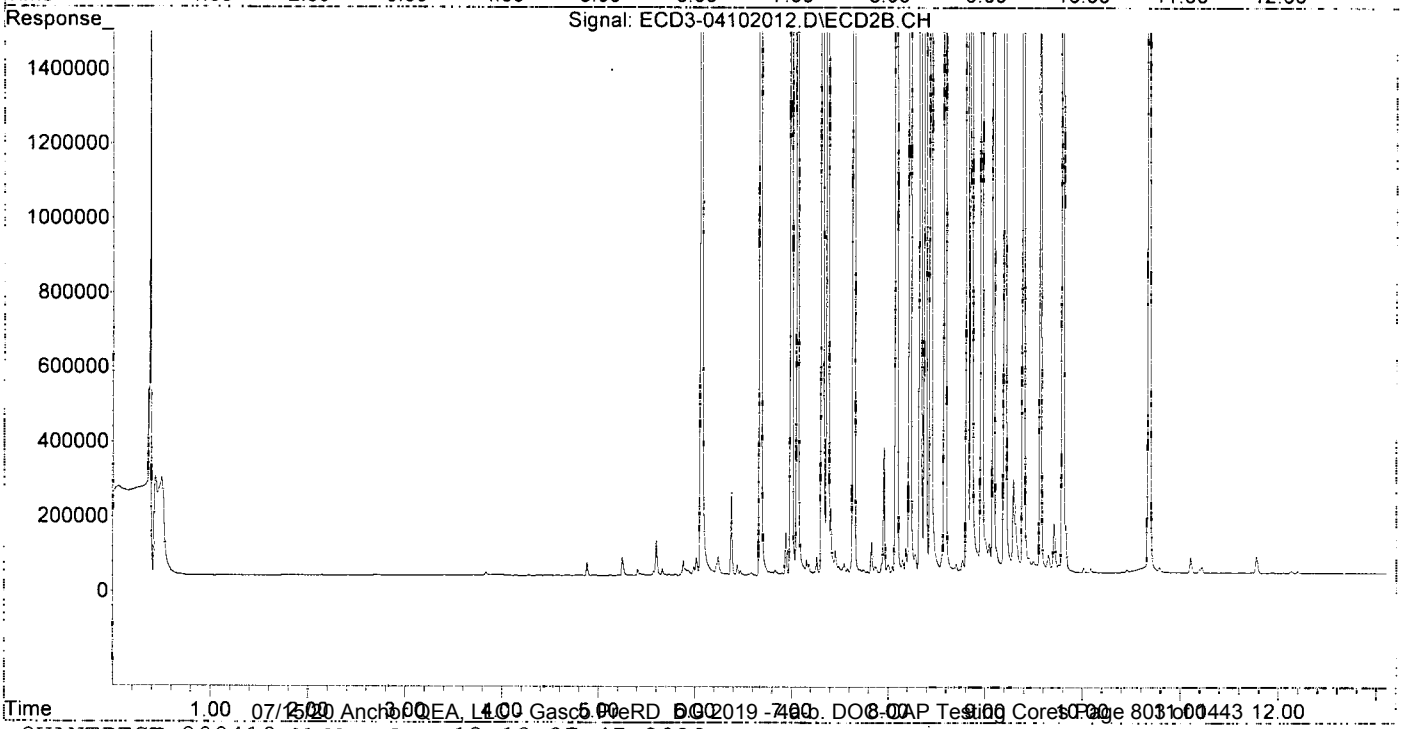
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:22
Operator : MJB
Sample : 0D10031-CAL8
Misc : A20C184, AB 100 ppb
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:40:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:40
Operator : MJB
Sample : 0D10031-CAL9
Misc : A20C177, AB 200 ppb
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:41:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

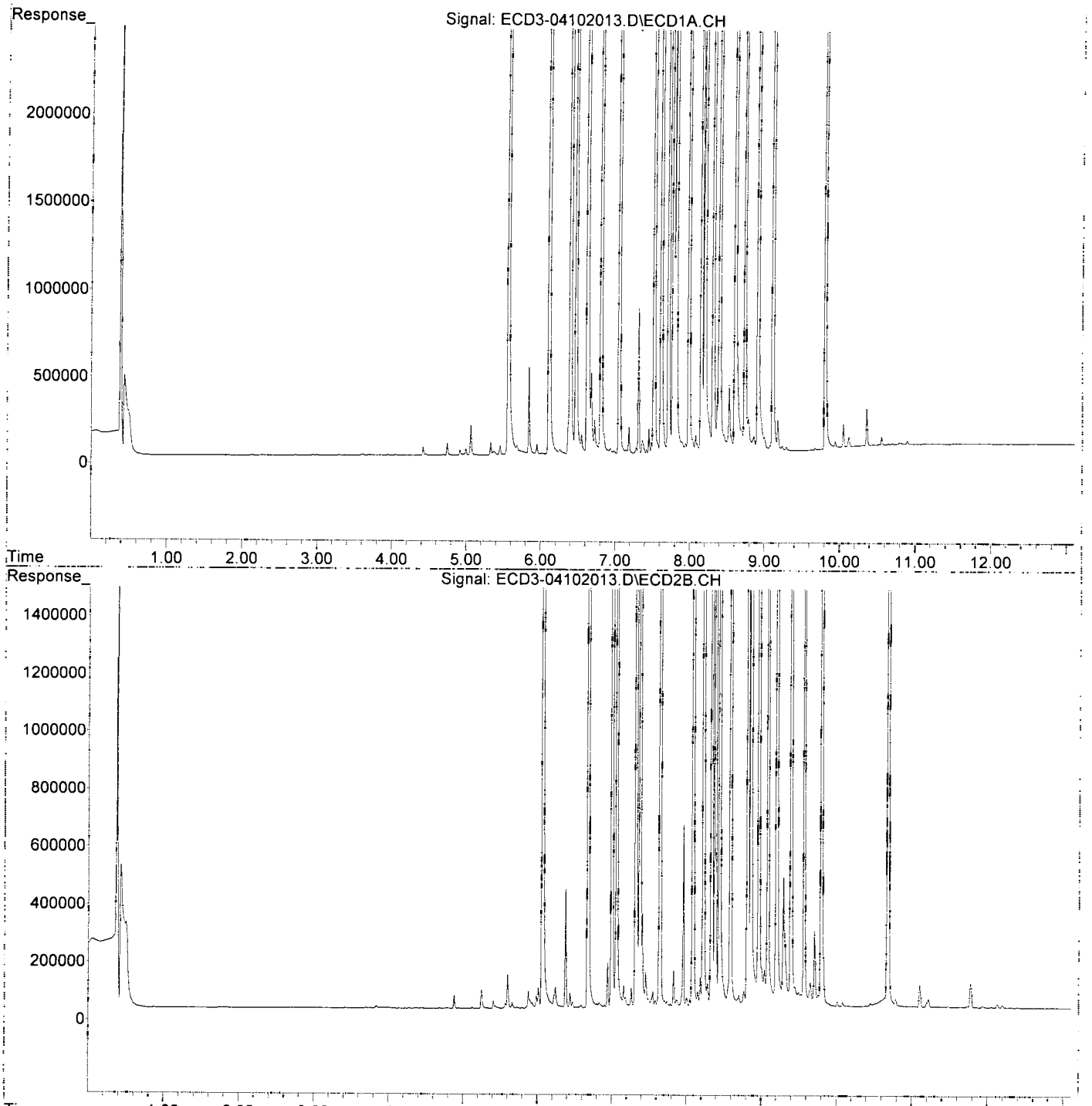
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.564	6.062	28992333	20414502	167.462	198.706	
22)	S DCBP (S)	9.807	10.679	22430618	12440663	186.828	239.601	
	Target Compounds							
2)	a-BHC	6.110	6.674	42454244	28719329	189.309	258.442	
3)	g-BHC	6.395	6.995	36042538	24936908	181.457	327.639	#
4)	b-BHC	6.470	7.057	14896865	11368661	162.553	324.645	#
5)	Heptachlor	6.809	7.372	34291575	22169726	193.208	331.977	#
6)	d-BHC	6.623	7.316	33683152	23989125	172.810	322.140	#
7)	Aldrin	7.053	7.640	33769142	23855766	178.842	218.035	
8)	Heptachlo...	7.519	8.081	29992904	21270880	171.846	232.274	
9)	trans-Chl...	7.615	8.223	31666318	21709173	176.034	245.748	
10)	cis-Chlor...	7.713	8.331	30069367	20913495	172.426	216.722	
11)	Endosulfa...	7.813	8.382	28839578	19228923	179.505	214.510	
12)	4,4'-DDE	7.772	8.437	31314990	21652854	175.632	230.630	
13)	Dieldrin	7.987	8.584	32386470	22315768	180.823	222.981	
14)	Endrin	8.154	8.814	27093743	17588255	202.630	247.004	
15)	4,4'-DDD	8.198	8.856	26222383	17432728	175.824	308.730	#
16)	Endosulfa...	8.312	8.961	25140767	17688125	176.339	226.571	
17)	4,4'-DDT	8.398	9.084	24723061	15058756	206.506	294.078	#
18)	Endrin Al...	8.606	9.201	21324700	15325432	176.437	234.234	
19)	Endosulfa...	8.912	9.392	23987343	16356168	167.026	223.725	
20)	Methoxychlor	8.736	9.567	11463022	7310519	186.567	275.221	#
21)	Endrin Ke...	9.109	9.797	28865829	18211713	176.138	249.159	#
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d	
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d	
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d	
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d	
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d	
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d	
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:40
Operator : MJB
Sample : 0D10031-CAL9
Misc : A20C177, AB 200 ppb
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:41:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:44:03 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4.13.20

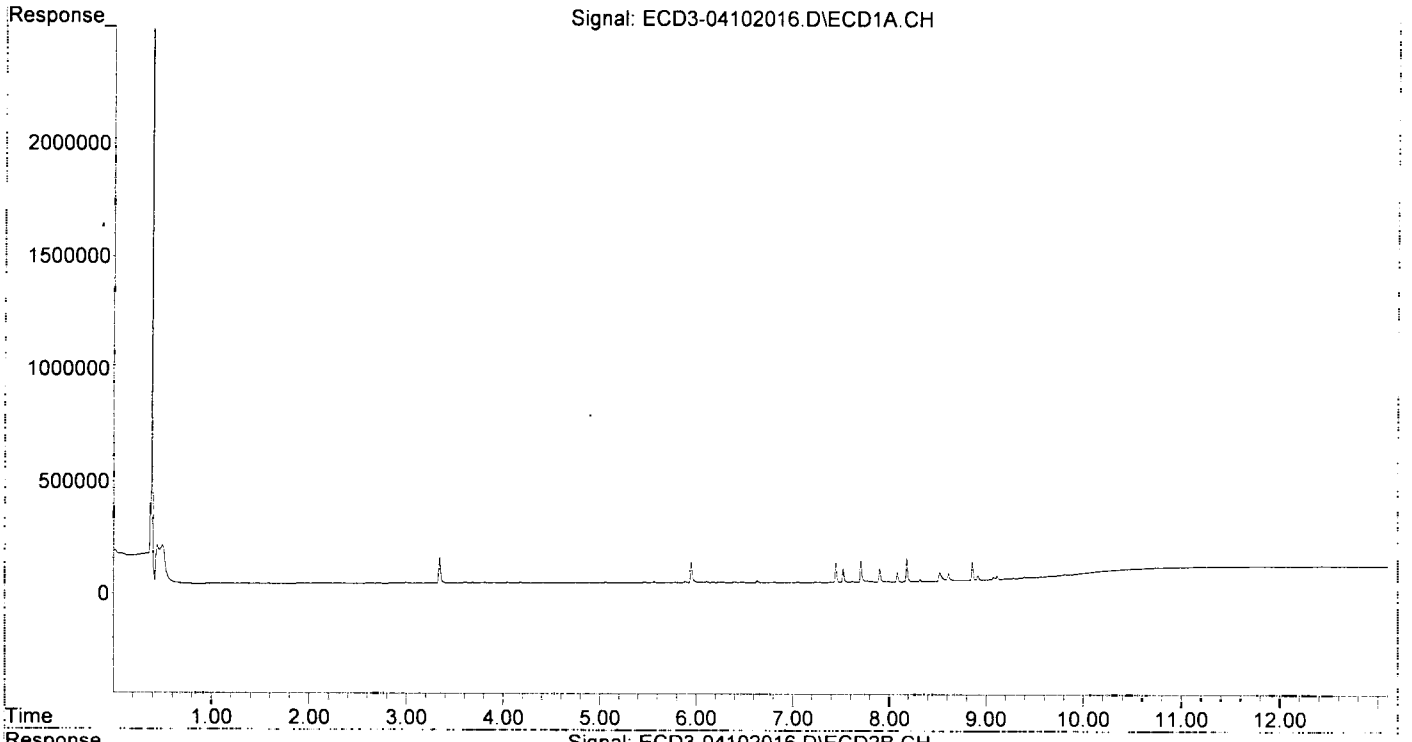
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.341	3.736	112302	112755	0.606	0.686
24)	Hexachlor...	5.948	6.532	90891	78616	0.504	0.496
25)	Oxychlordane	7.448	8.010	87083	67961	0.556	0.737
26)	2,4'-DDE	7.523	8.216	59883	54754	0.491	0.698 #
27)	trans-Non...	7.705	8.287	97265	76561	0.549	0.675
28)	2,4'-DDD	7.900	8.592	56544	50583	0.521	0.754 #
29)	2,4'-DDT	8.083	8.817	41657	32434	0.390	0.519
30)	cis-Nonac...	8.181	8.857	105931	83146	0.545	0.775 #
31)	Mirex	8.858	9.790	82399	60436	0.564	0.787
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

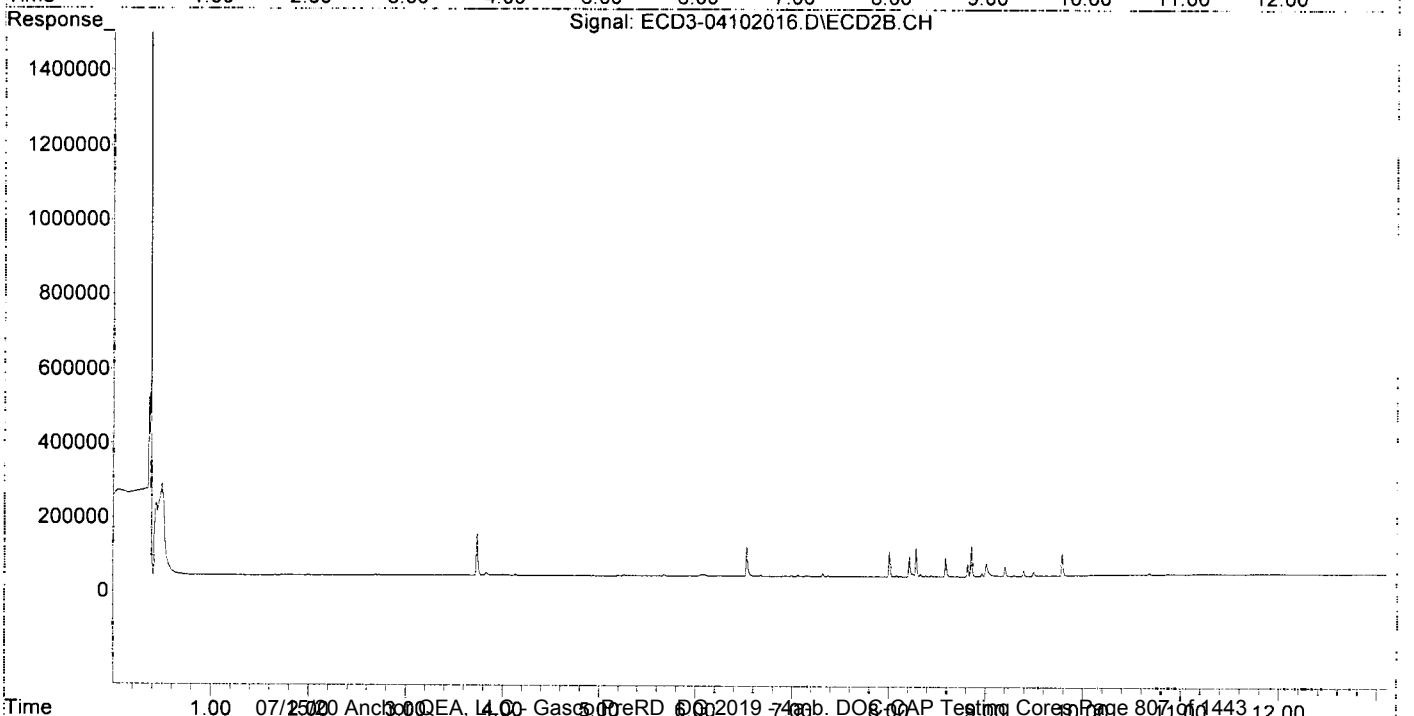
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:44:03 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:48
Operator : MJB
Sample : 0D10031-CALB
Misc : A20C353, 9-42 1 ppb
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:44:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

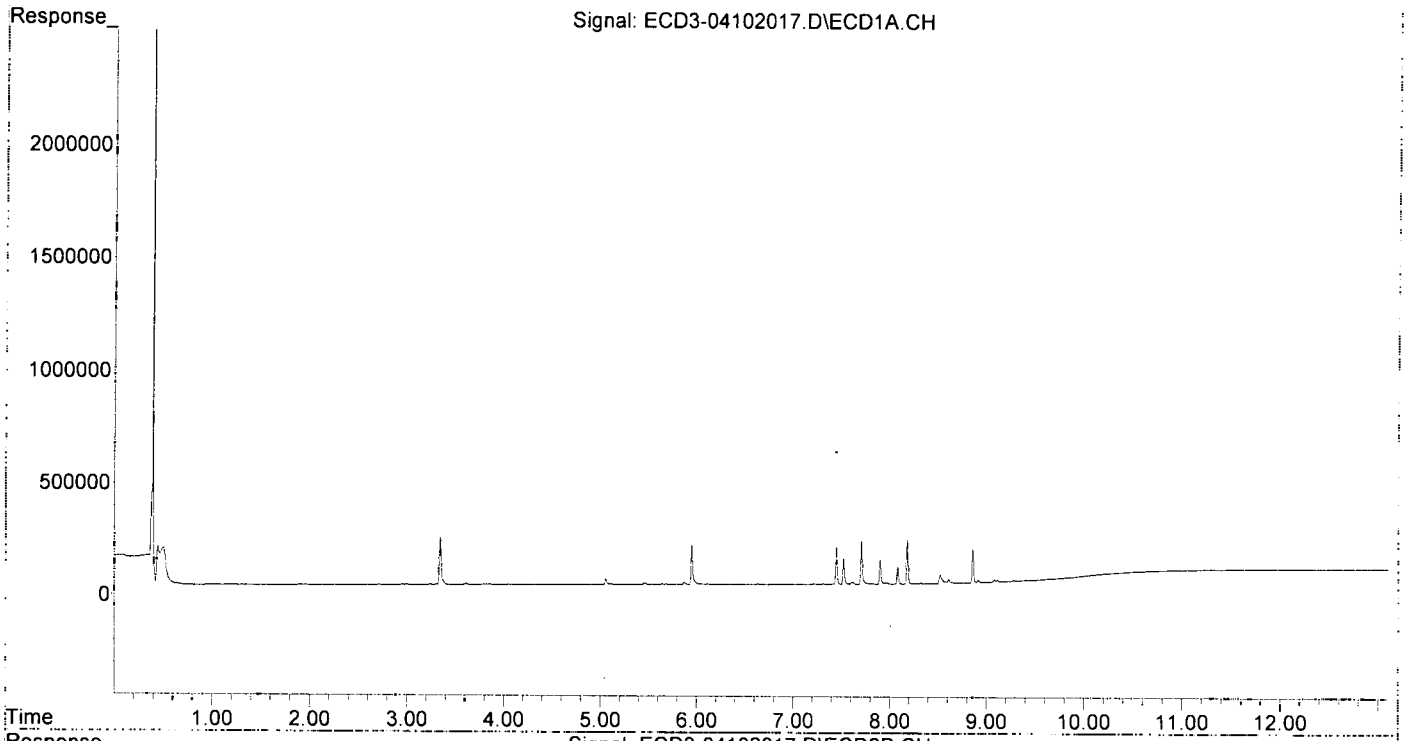
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d	
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d	
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d	
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d	
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d	
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d	
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d	
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d	
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d	
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d	
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d	
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d	
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d	
23)	Hexachlor...	3.342	3.736	210953	210162	1.138	1.352	
24)	Hexachlor...	5.948	6.532	171487	145117	0.950	1.074	
25)	Oxychlordane	7.447	8.010	167657	131841	1.071	1.431	
26)	2,4'-DDE	7.522	8.216	114378	102014	0.937	1.300	
27)	trans-Non...	7.706	8.287	189735	145443	1.070	1.431	
28)	2,4'-DDD	7.899	8.593	106028	93331	0.977	1.580	#
29)	2,4'-DDT	8.083	8.817	77977	56936	0.731	1.040	#
30)	cis-Nonac...	8.181	8.858	197292	153334	1.015	1.429	#
31)	Mirex	8.858	9.790	147950	100894	1.160	1.502	
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

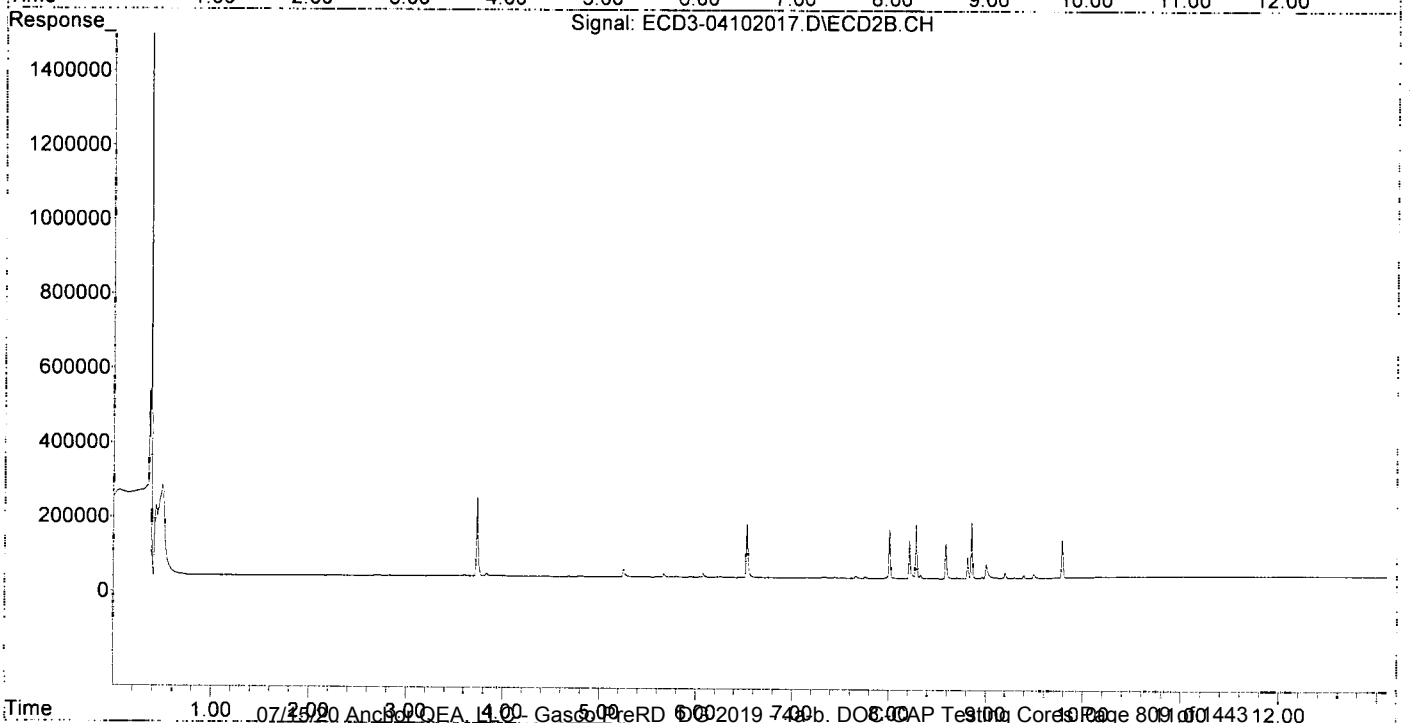
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:48
Operator : MJB
Sample : 0D10031-CALB
Misc : A20C353, 9-42 1 ppb
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:44:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:06
Operator : MJB
Sample : 0D10031-CALC
Misc : A20C354, 9-42 2 ppb
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:45:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

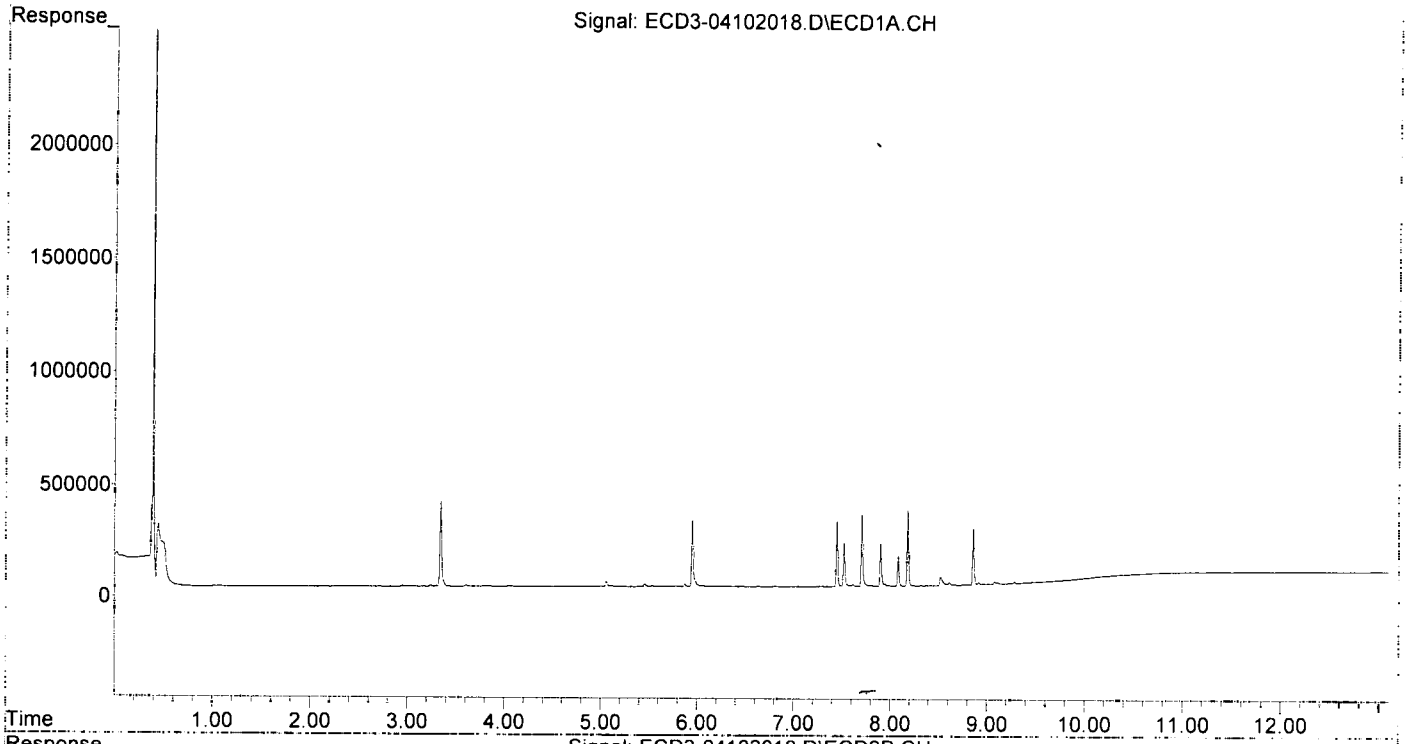
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.342	3.736	381441	372830	2.058	2.466
24)	Hexachlor...	5.948	6.533	294999	248384	1.635	1.972
25)	Oxychlordane	7.448	8.011	296003	226120	1.892	2.454
26)	2,4'-DDE	7.523	8.216	197703	175821	1.620	2.241
27)	trans-Non...	7.706	8.287	319860	251420	1.804	2.594 #
28)	2,4'-DDD	7.900	8.592	187358	158108	1.726	2.832 #
29)	2,4'-DDT	8.083	8.818	133977	96604	1.256	1.884 #
30)	cis-Nonac...	8.181	8.858	342161	262929	1.760	2.450
31)	Mirex	8.858	9.790	248901	167144	2.077	2.673
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

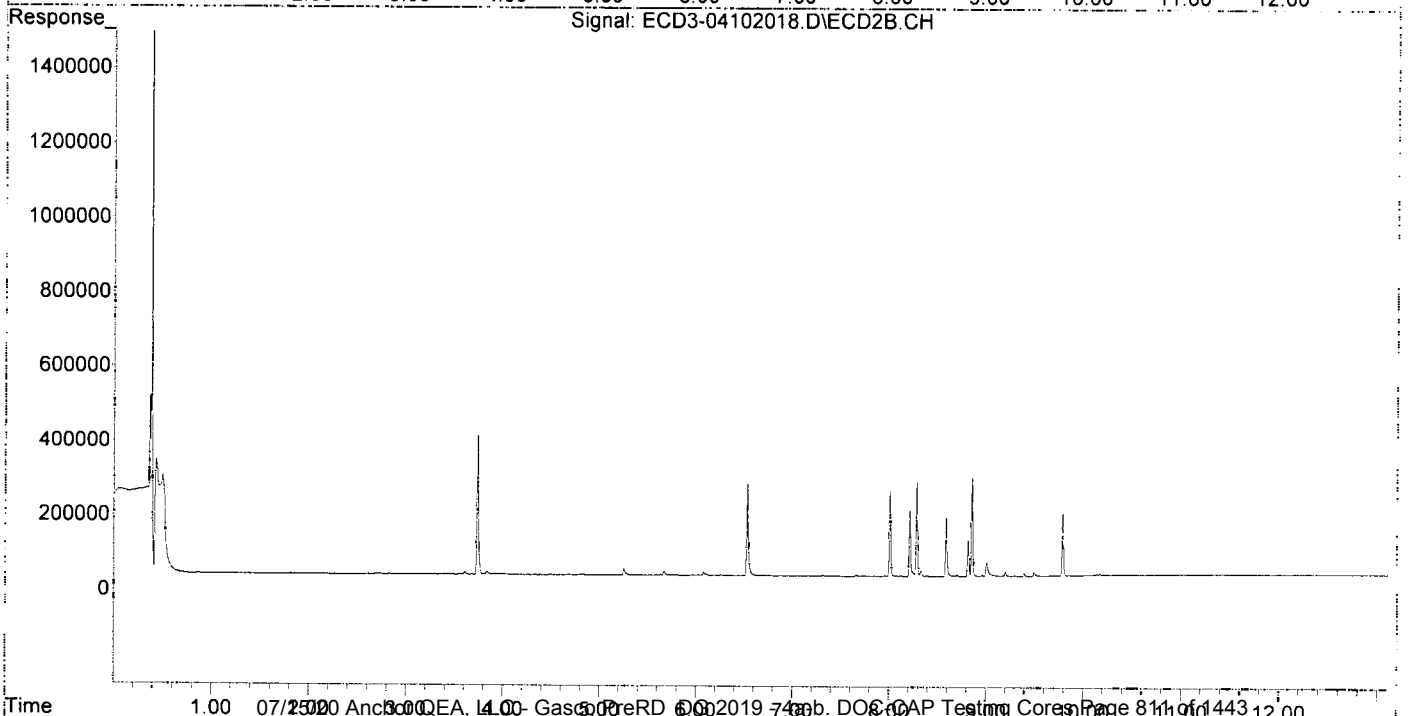
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:06
Operator : MJB
Sample : 0D10031-CALC
Misc : A20C354, 9-42 2 ppb
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:45:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:23
Operator : MJB
Sample : 0D10031-CALD
Misc : A20C355, 9-42 5 ppb
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:45:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

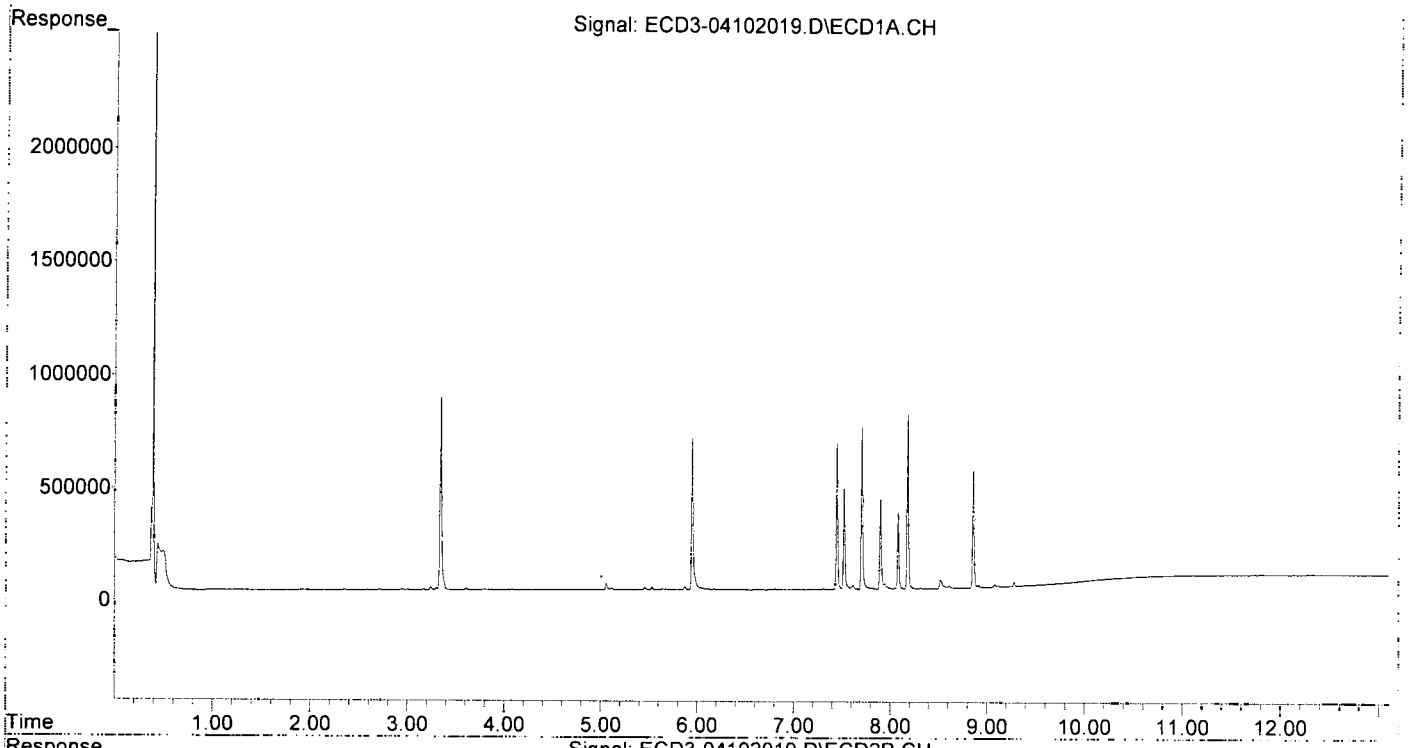
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.342	3.736	857802	848292	4.629	5.732
24)	Hexachlor...	5.947	6.532	674330	553413	3.736	4.630
25)	Oxychlordane	7.447	8.010	646772	490301	4.133	5.320
26)	2,4'-DDE	7.522	8.216	448996	395444	3.679	5.041
27)	trans-Non...	7.705	8.286	722033	557194	4.072	5.951 #
28)	2,4'-DDD	7.899	8.591	402442	342154	3.708	6.395 #
29)	2,4'-DDT	8.082	8.817	343961	240393	3.224	4.941 #
30)	cis-Nonac...	8.181	8.857	779953	594209	4.012	5.537
31)	Mirex	8.858	9.790	521342	369585	4.553	6.253
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

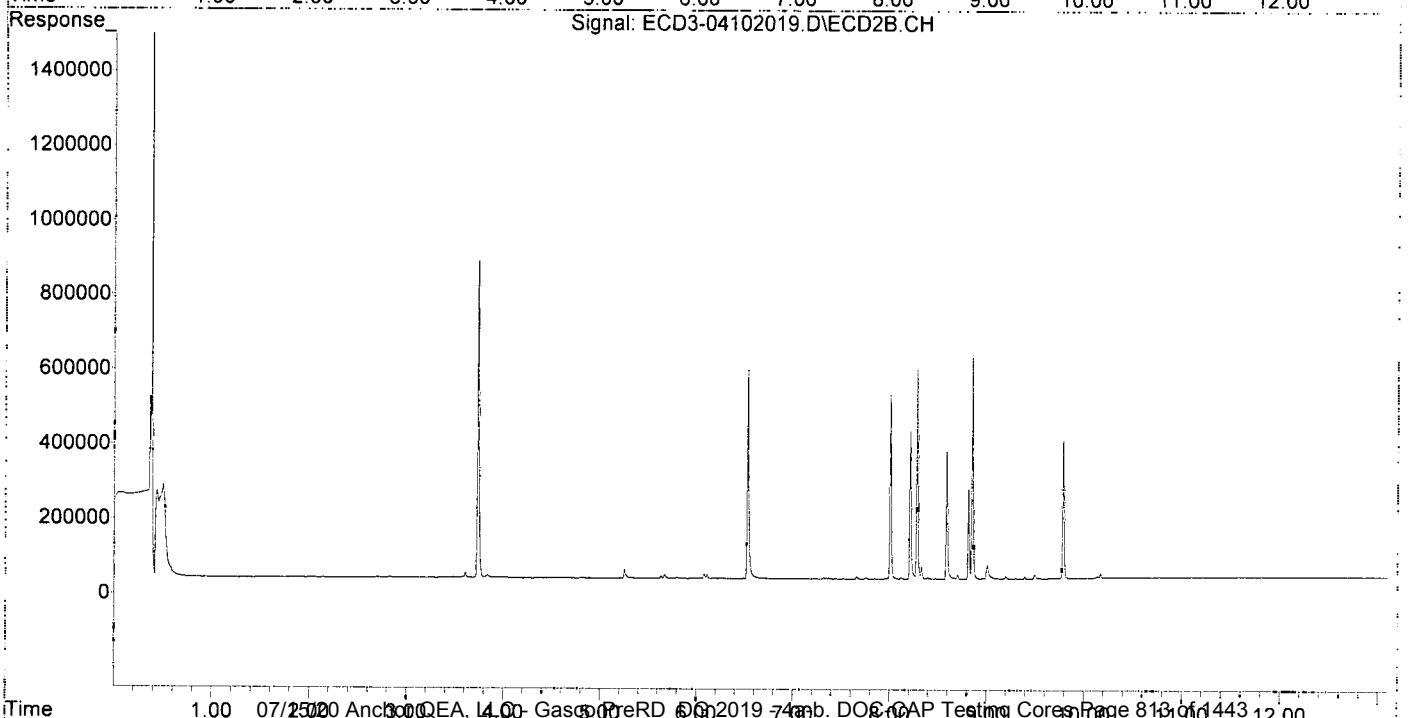
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:23
Operator : MJB
Sample : 0D10031-CALD
Misc : A20C355, 9-42 5 ppb
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:45:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:40
Operator : MJB
Sample : 0D10031-CALE
Misc : A20C356, 9-42 10 ppb
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:46:28 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

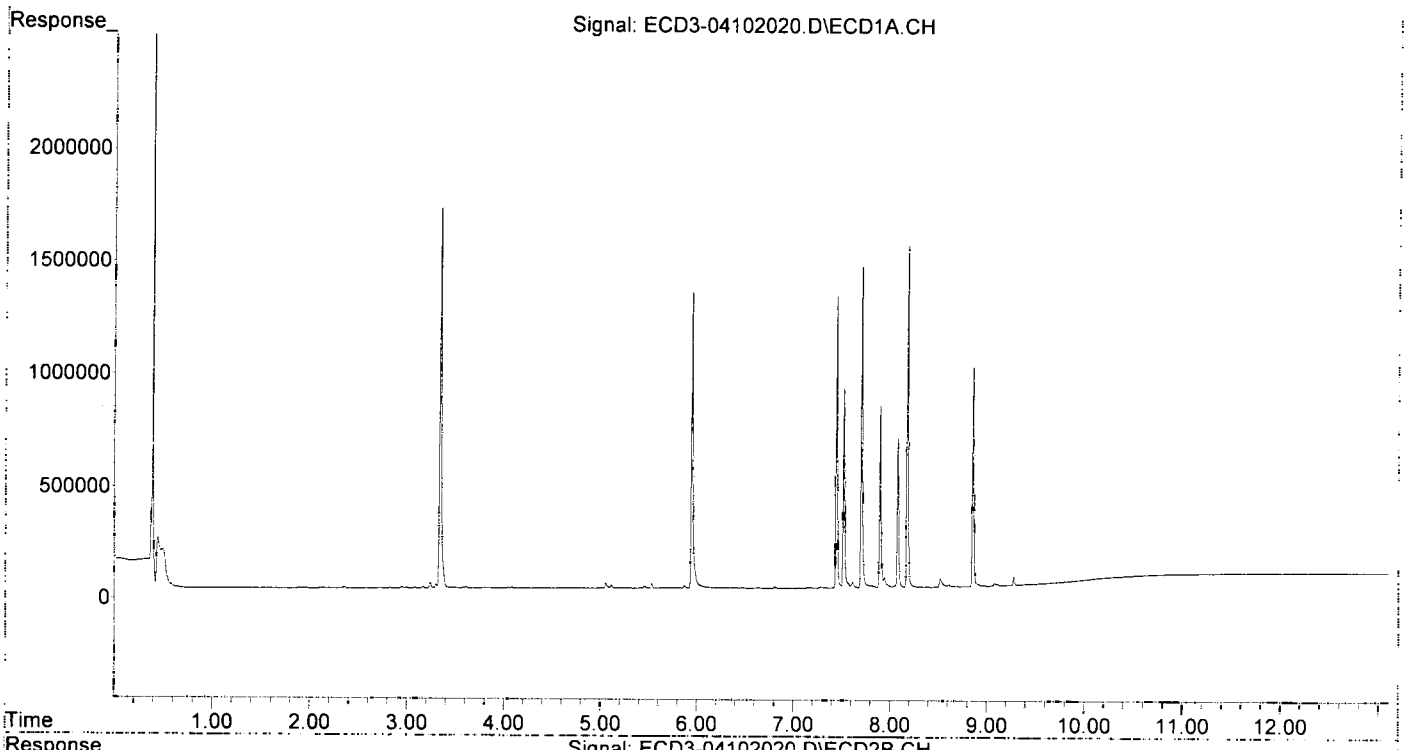
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.342	3.736	1689587	1632647	9.117	11.159
24)	Hexachlor...	5.947	6.532	1319038	1101770	7.309	9.424
25)	Oxychlordane	7.447	8.011	1300026	992994	8.307	10.775
26)	2,4'-DDE	7.522	8.217	889087	776105	7.285	9.894
27)	trans-Non...	7.705	8.287	1431403	1088724	8.072	11.786 #
28)	2,4'-DDD	7.899	8.592	809760	665503	7.462	12.672 #
29)	2,4'-DDT	8.082	8.818	665398	472159	6.237	9.864 #
30)	cis-Nonac...	8.181	8.858	1524562	1133487	7.842	10.563
31)	Mirex	8.858	9.790	976519	672336	8.691	11.607
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

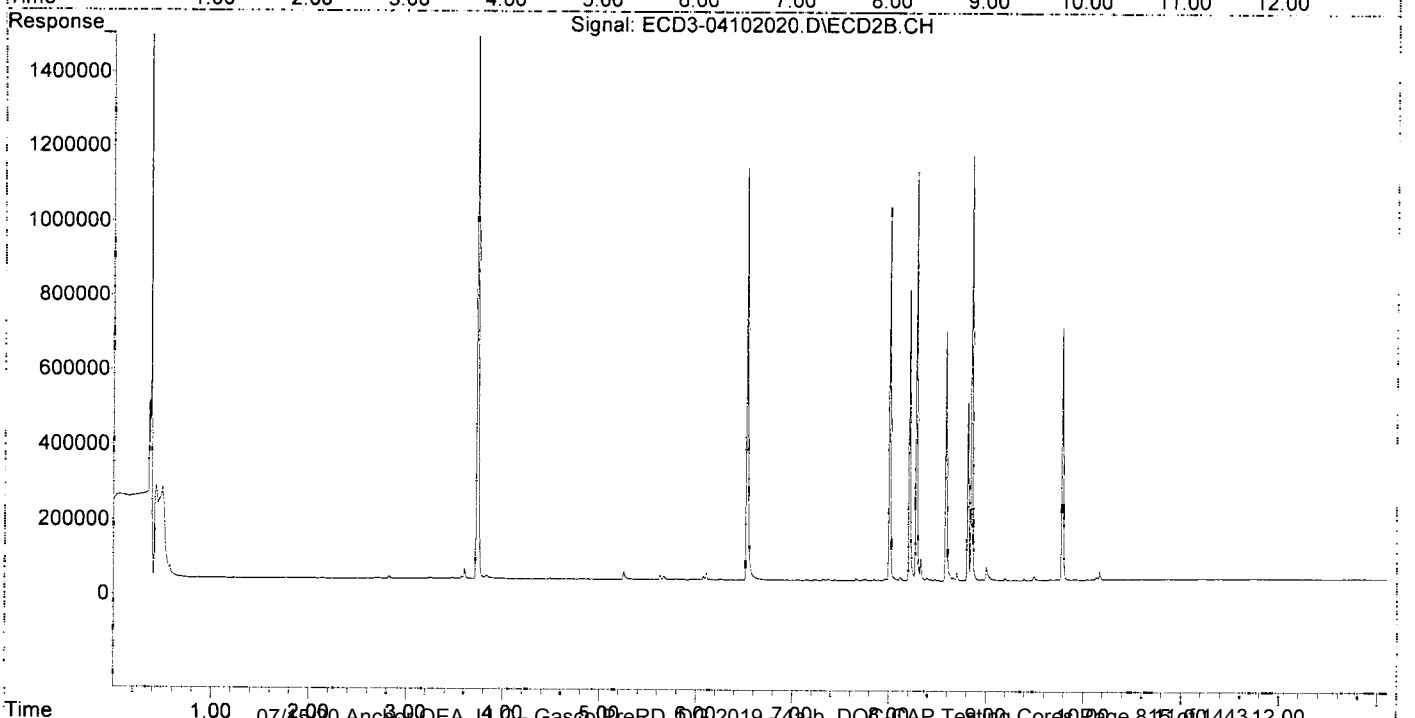
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:40
Operator : MJB
Sample : 0D10031-CALE
Misc : A20C356, 9-42 10 ppb
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:46:28 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:57
Operator : MJB
Sample : 0D10031-CALF
Misc : A20C357, 9-42 25 ppb
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:47:02 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

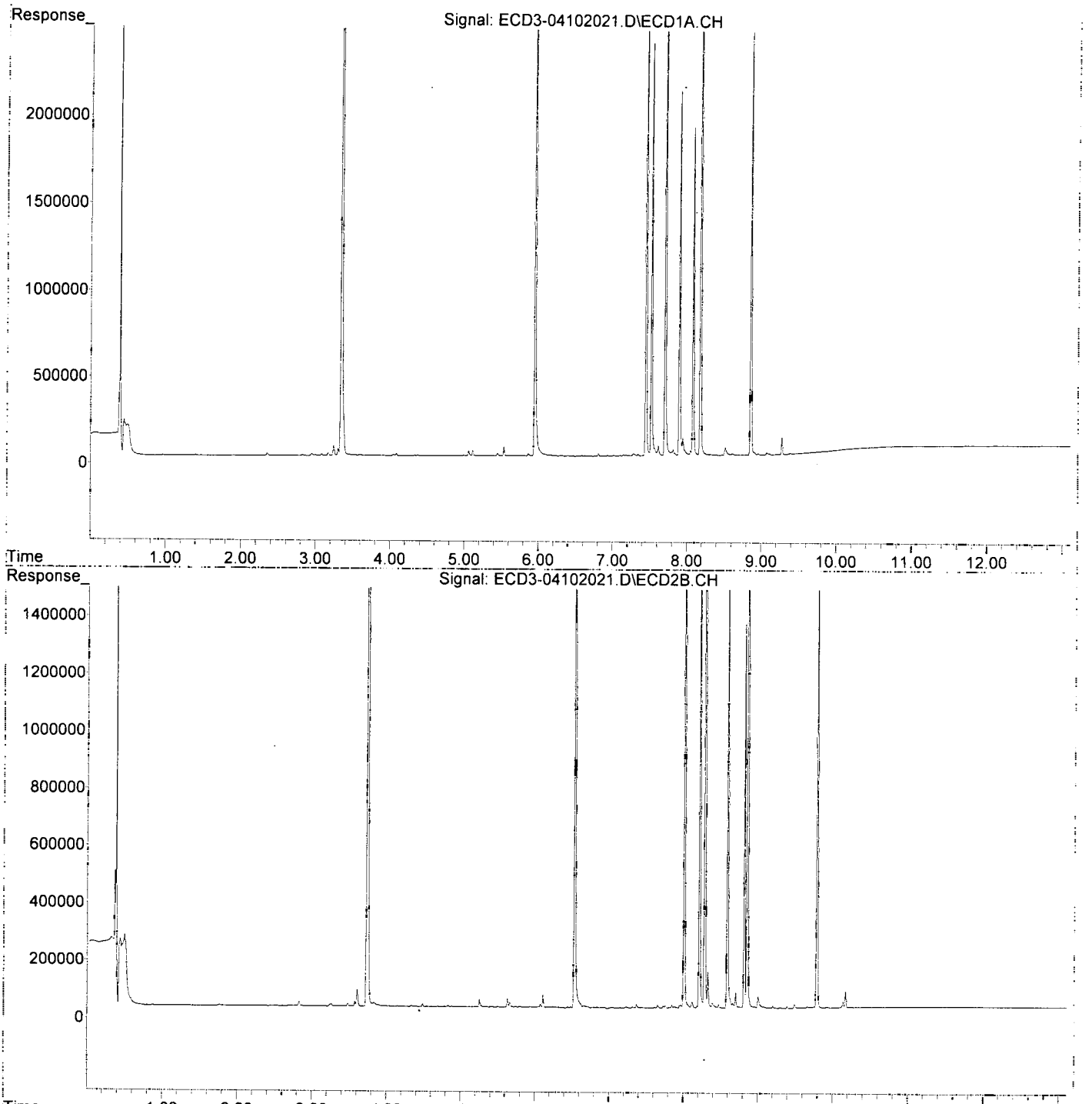
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d	
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d	
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d	
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d	
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d	
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d	
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d	
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d	
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d	
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d	
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d	
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d	
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d	
23)		Hexachlor...	3.342	3.736	4236498	3836415	22.860	26.666	
24)		Hexachlor...	5.948	6.532	3410831	2741174	18.899	23.878	
25)		Oxychlordane	7.446	8.009	3280717	2462430	20.964	26.720	
26)		2,4'-DDE	7.519	8.215	2370241	1938260	19.420	24.709	
27)		trans-Non...	7.704	8.286	3612570	2768485	20.373	30.239	#
28)		2,4'-DDD	7.897	8.591	2101228	1648579	19.362	31.886	#
29)		2,4'-DDT	8.081	8.817	1890884	1331674	17.725	28.064	#
30)		cis-Nonac...	8.179	8.856	3931964	2939943	20.226	27.396	
31)		Mirex	8.856	9.789	2445934	1721066	22.065	30.164	
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:57
Operator : MJB
Sample : 0D10031-CALF
Misc : A20C357, 9-42 25 ppb
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:47:02 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:14
Operator : MJB
Sample : 0D10031-CALG
Misc : A20C358, 9-42 50 ppb
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:43:04 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

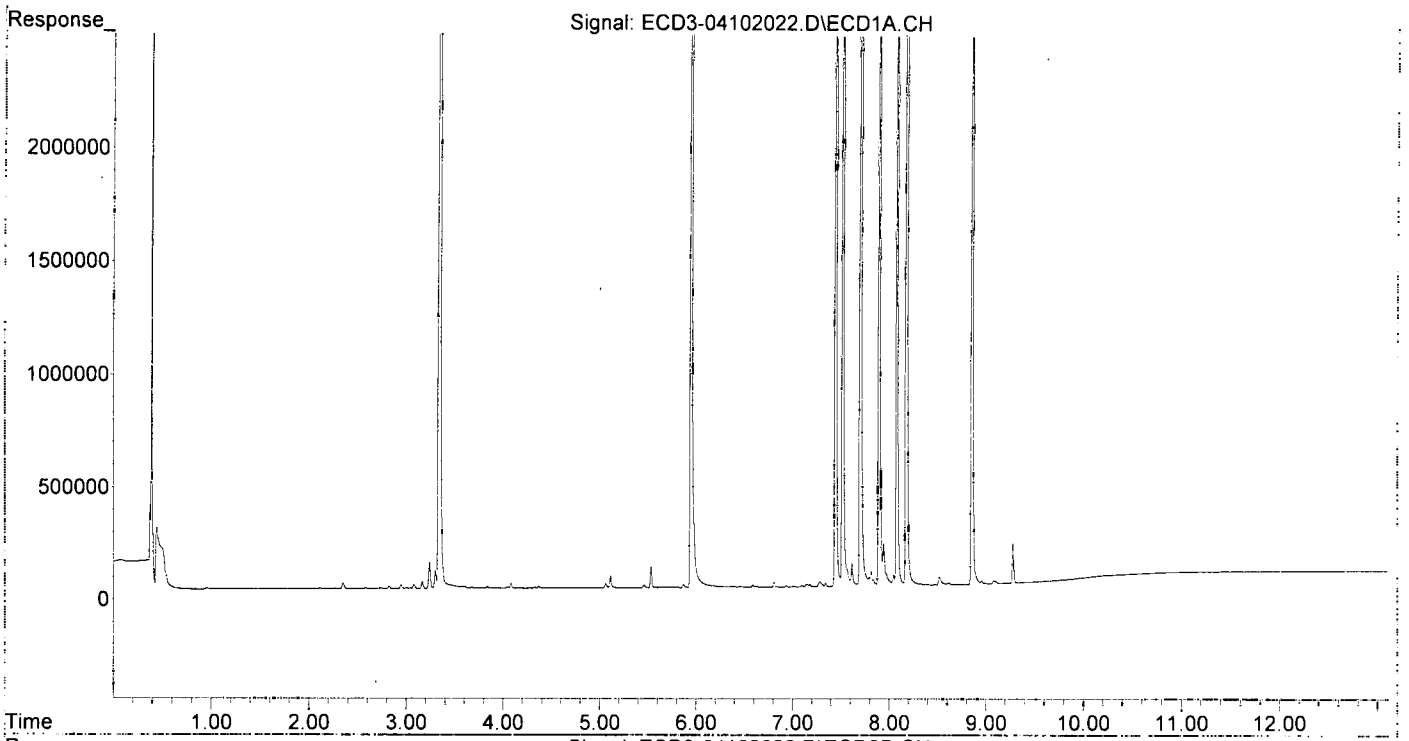
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d	
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d	
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d	
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d	
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d	
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d	
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d	
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d	
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d	
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d	
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d	
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d	
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d	
23)		Hexachlor...	3.342	3.736	8735674	7661028	47.138	54.568	
24)		Hexachlor...	5.948	6.532	6661991	5176901	36.914	45.707	
25)		Oxychlordane	7.446	8.010	6240780	4745169	39.880	51.490	
26)		2,4'-DDE	7.520	8.215	4518917	3659885	37.025	46.656	
27)		trans-Non...	7.703	8.286	6909845	5248360	38.968	57.508	#
28)		2,4'-DDD	7.897	8.591	4001953	3205195	36.876	62.731	#
29)		2,4'-DDT	8.081	8.817	3806076	2644918	35.678	55.701	#
30)		cis-Nonac...	8.180	8.857	7558026	5676373	38.879	52.896	
31)		Mirex	8.856	9.789	4722341	3205930	42.830	56.465	
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

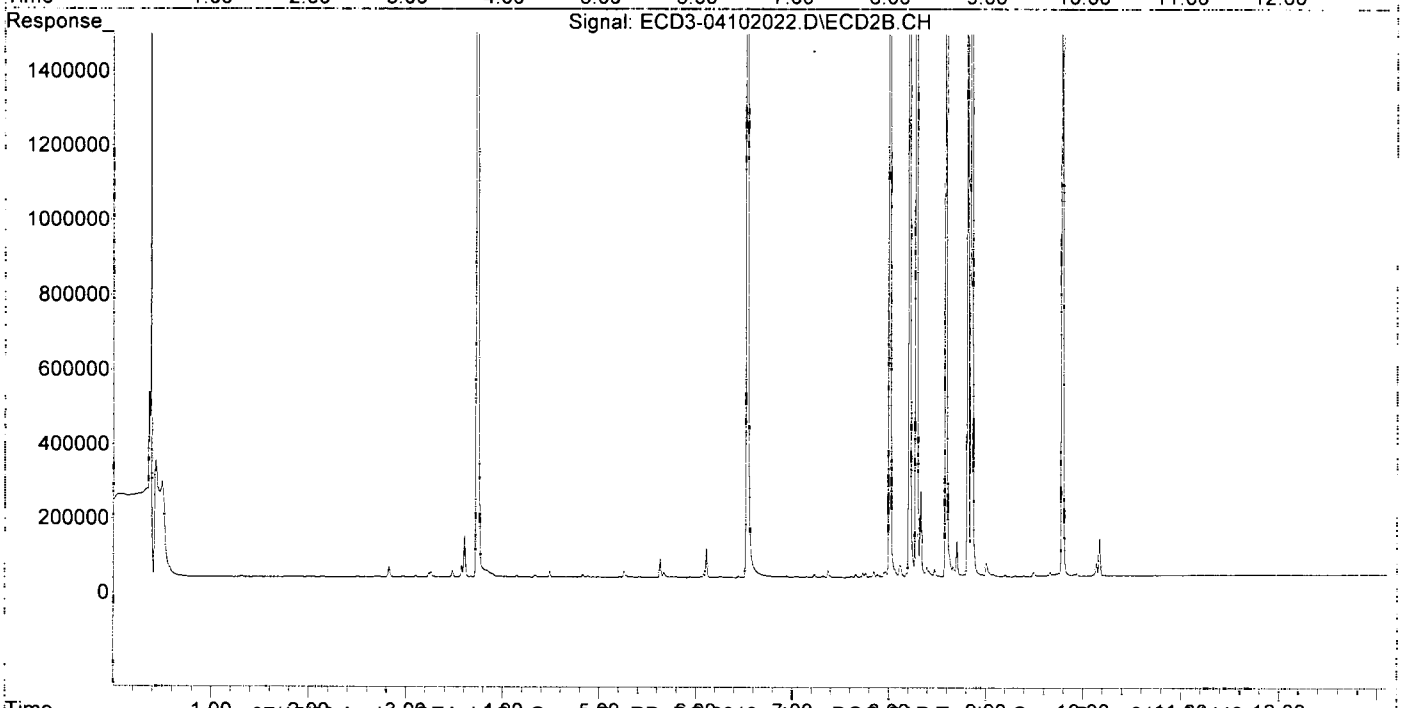
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:14
Operator : MJB
Sample : 0D10031-CALG
Misc : A20C358, 9-42 50 ppb
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:43:04 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:31
Operator : MJB
Sample : 0D10031-CALH
Misc : A20C359, 9-42 100 ppb
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:47:36 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

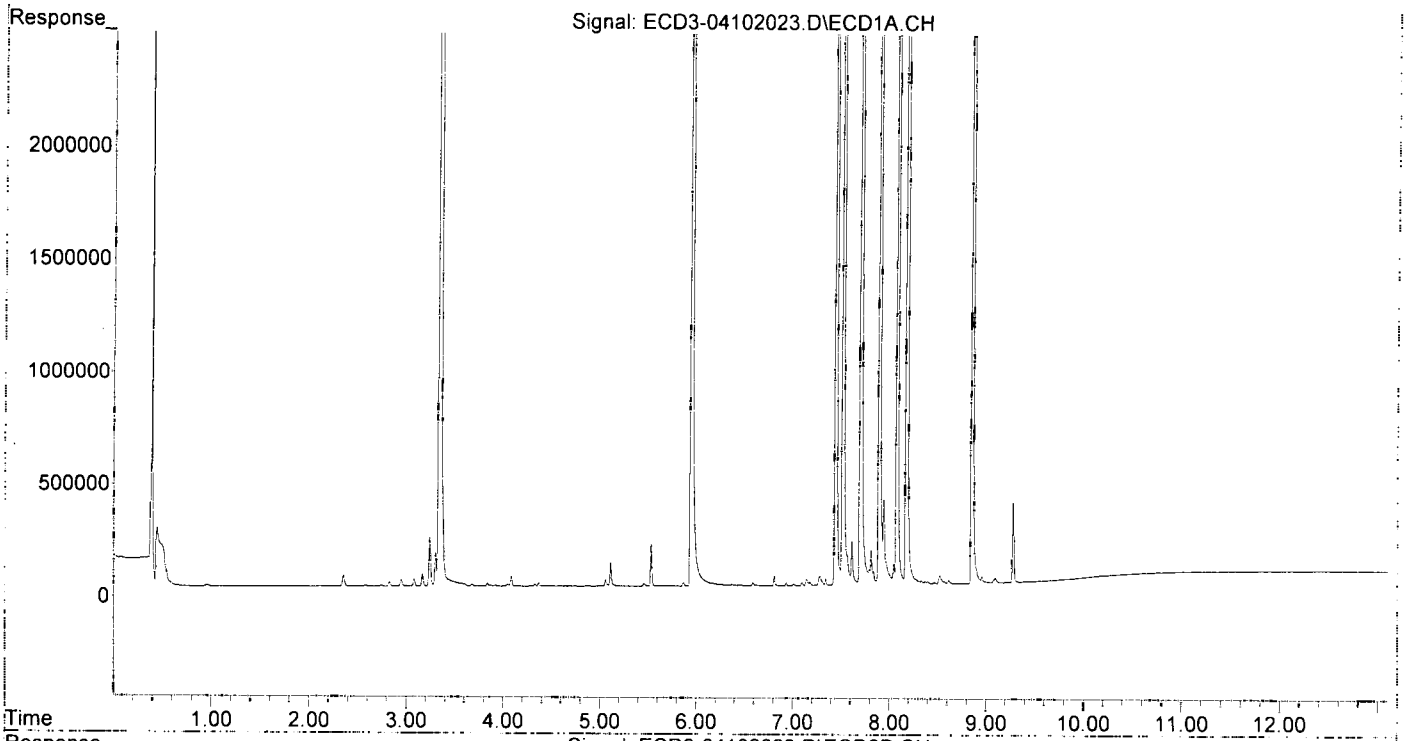
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.342	3.736	17207142	14843032	92.850	110.997
24)	Hexachlor...	5.948	6.532	13905902	10342257	77.052	93.507
25)	Oxychlordane	7.446	8.009	13063239	9423897	83.477	102.259
26)	2,4'-DDE	7.519	8.214	9420136	7319258	77.183	93.305
27)	trans-Non...	7.703	8.285	14841913	10461112	83.701	114.939
28)	2,4'-DDD	7.896	8.591	8200834	6389450	75.567	127.538 #
29)	2,4'-DDT	8.081	8.817	7906836	5426818	74.118	113.580 #
30)	cis-Nonac...	8.179	8.857	15616314	11378214	80.332	106.030
31)	Mirex	8.856	9.789	9796794	6667267	89.319	117.899
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

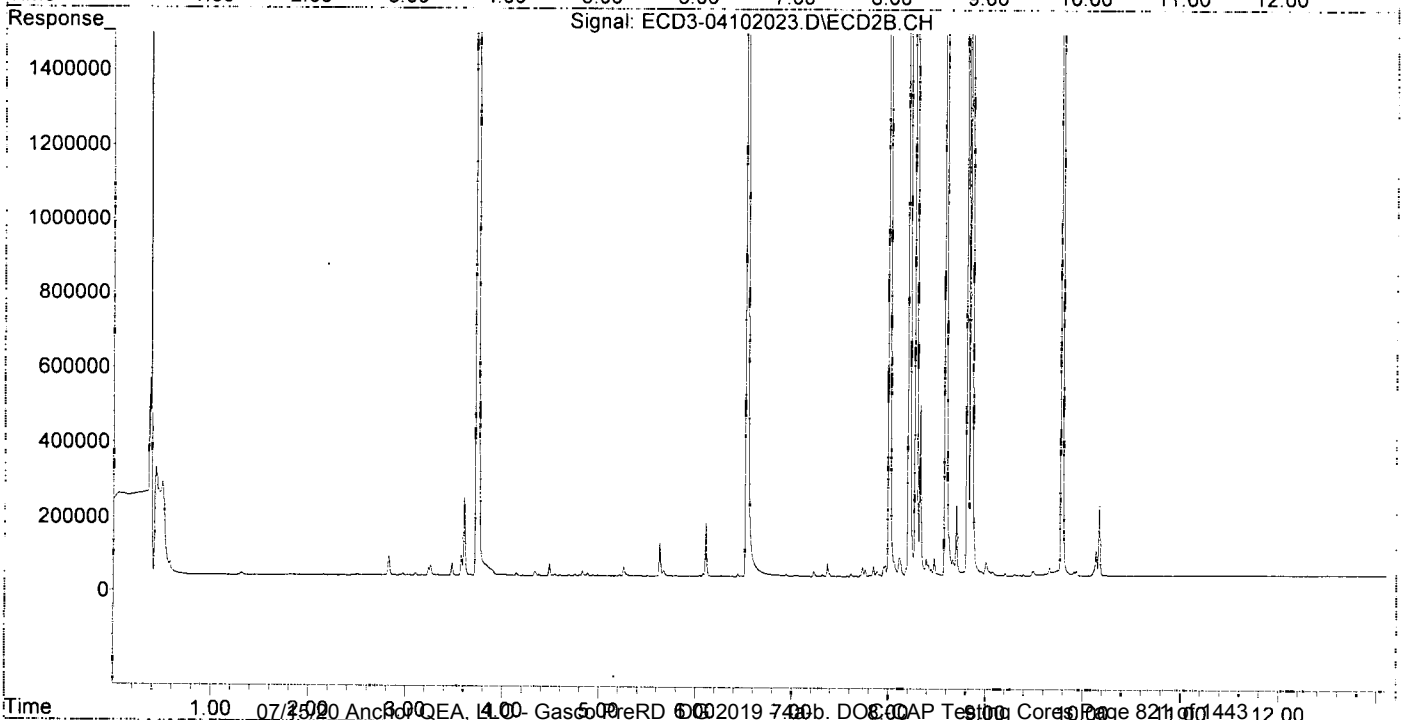
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:31
Operator : MJB
Sample : 0D10031-CALH
Misc : A20C359, 9-42 100 ppb
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:47:36 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:49
Operator : MJB
Sample : 0D10031-CALI
Misc : A20C352, 9-42 200 ppb
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:48:11 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

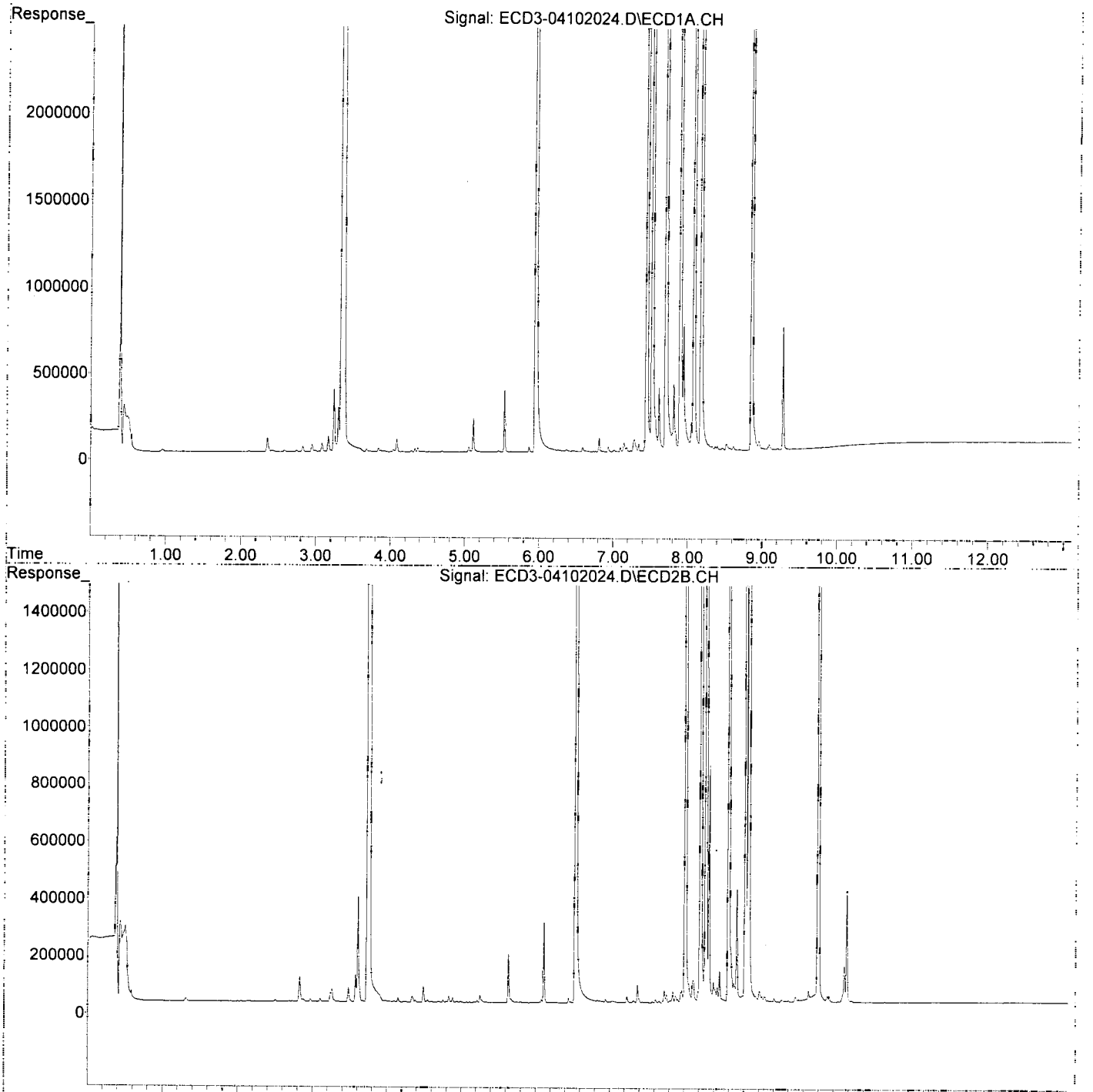
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.343	3.737	30654926	25097902	165.414	204.330
24)	Hexachlor...	5.948	6.533	27917200	20106640	154.688	190.431
25)	Oxychlordane	7.446	8.010	26694991	18880326	170.586	204.872
26)	2,4'-DDE	7.519	8.215	19110459	14263135	156.580	181.826
27)	trans-Non...	7.703	8.286	29240286	20044391	164.900	220.913
28)	2,4'-DDD	7.896	8.591	16682003	12705250	153.717	263.850 #
29)	2,4'-DDT	8.081	8.817	16615671	11384733	155.753	234.665 #
30)	cis-Nonac...	8.179	8.856	31802143	21372951	163.593	199.167
31)	Mirex	8.856	9.790	19600089	12929032	179.938	229.477
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:49
Operator : MJB
Sample : 0D10031-CALI
Misc : A20C352, 9-42 200 ppb
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:48:11 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:40
Operator : MJB
Sample : 0D10031-CALJ
Misc : A20D136, CHLOR 10 ppb
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:50:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

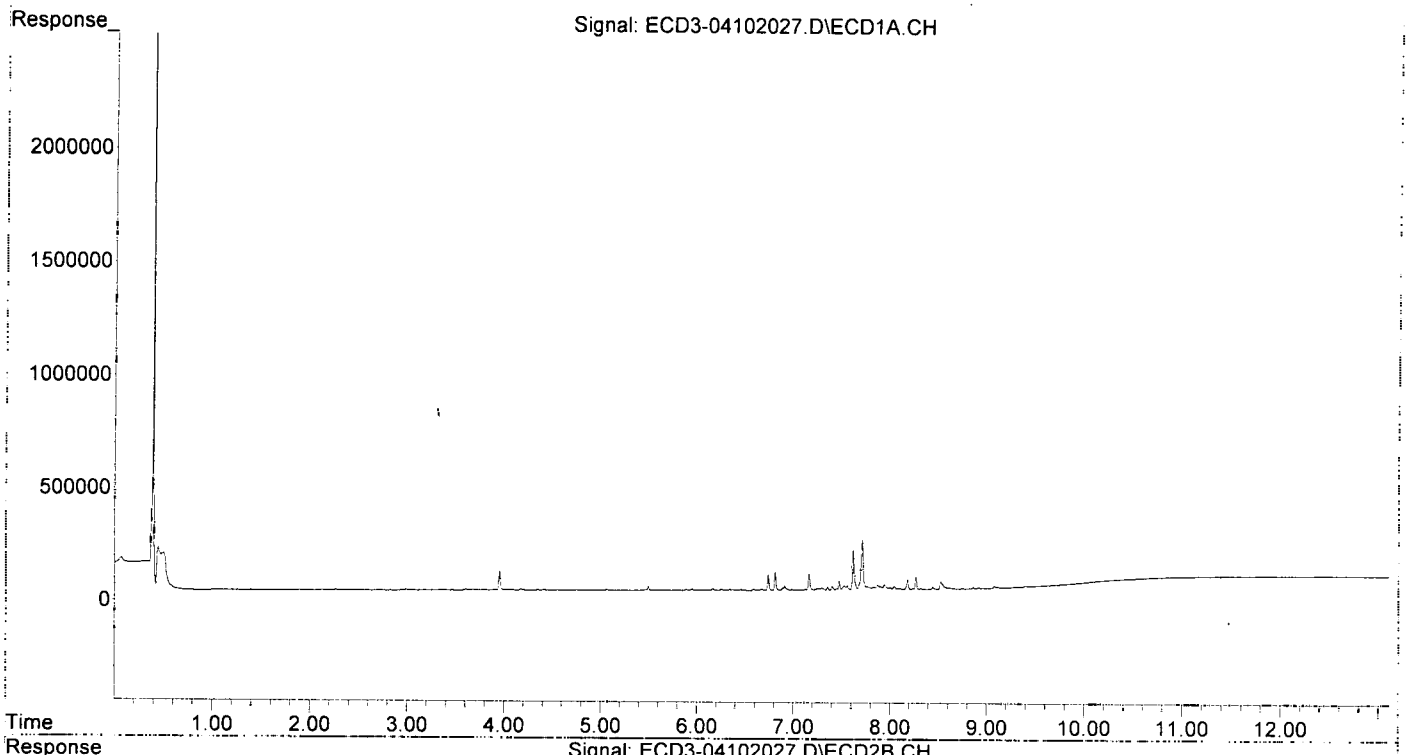
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.617	8.222	181927	156594	9.420	12.297
33)	Chlordane...	7.711	8.331	224425	138950	10.196	12.869
34)	Chlordane...	8.267	9.001	55530	51394	9.237	6.926
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

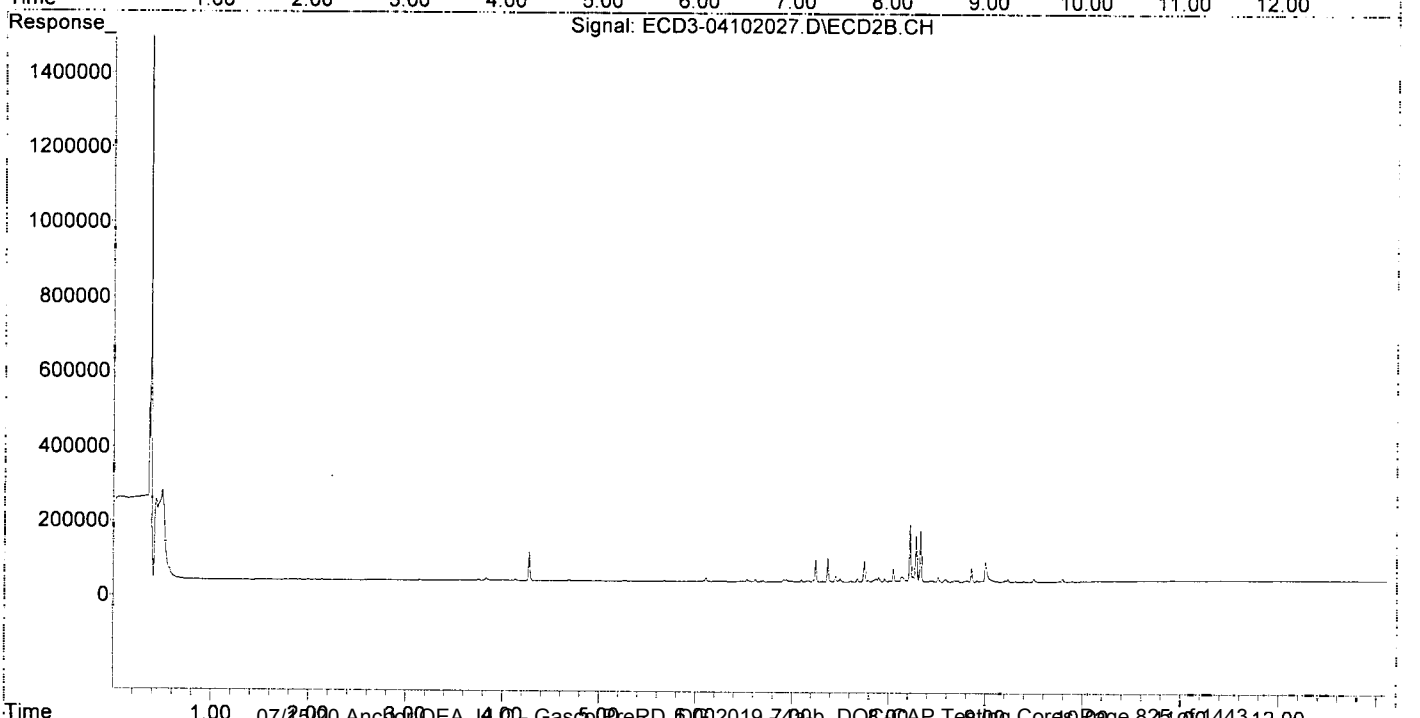
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:40
Operator : MJB
Sample : 0D10031-CALJ
Misc : A20D136, CHLOR 10 ppb
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:50:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:57
Operator : MJB
Sample : 0D10031-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:51:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

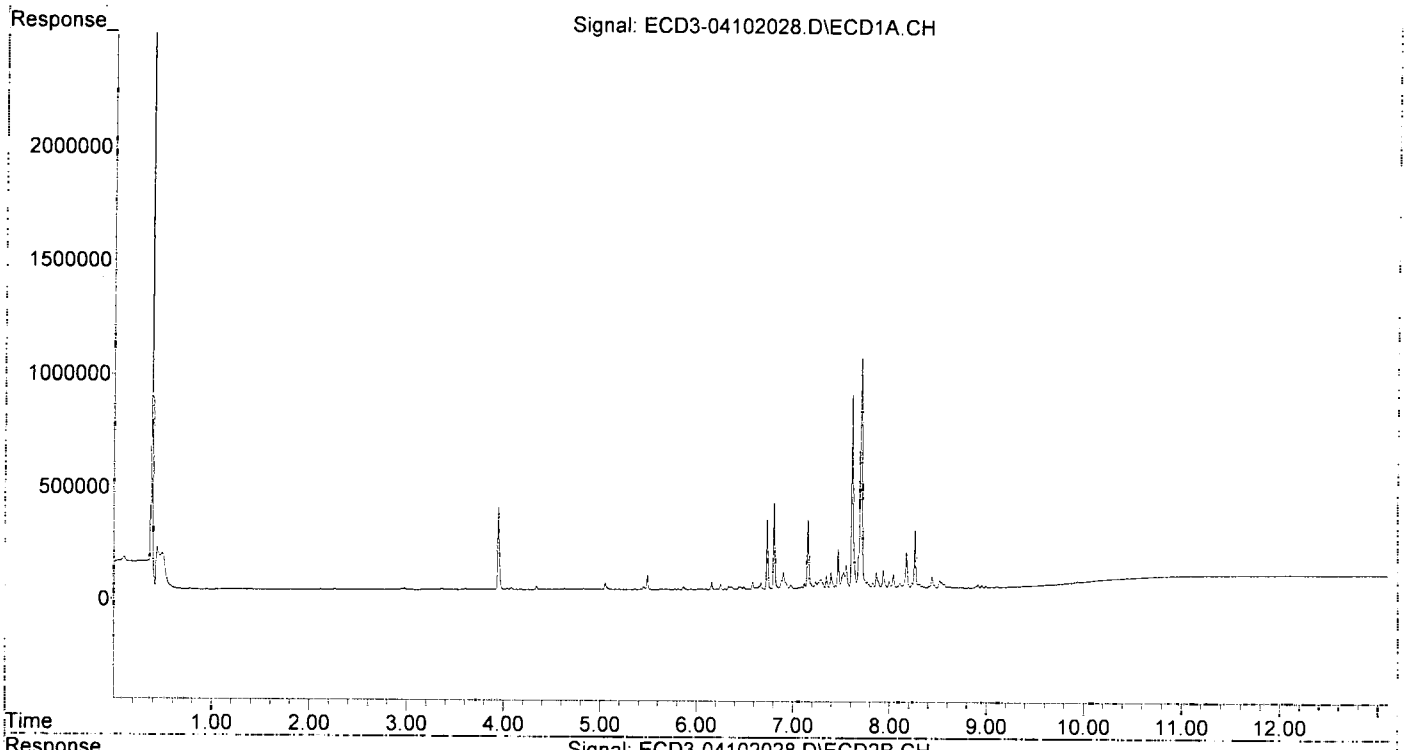
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	7.615	8.221	860072	734996	44.534	57.718
33)		Chlordane...	7.709	8.329	1020612	633044	46.370	58.630
34)		Chlordane...	8.266	8.997	252424	195537	41.989	58.913 #
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

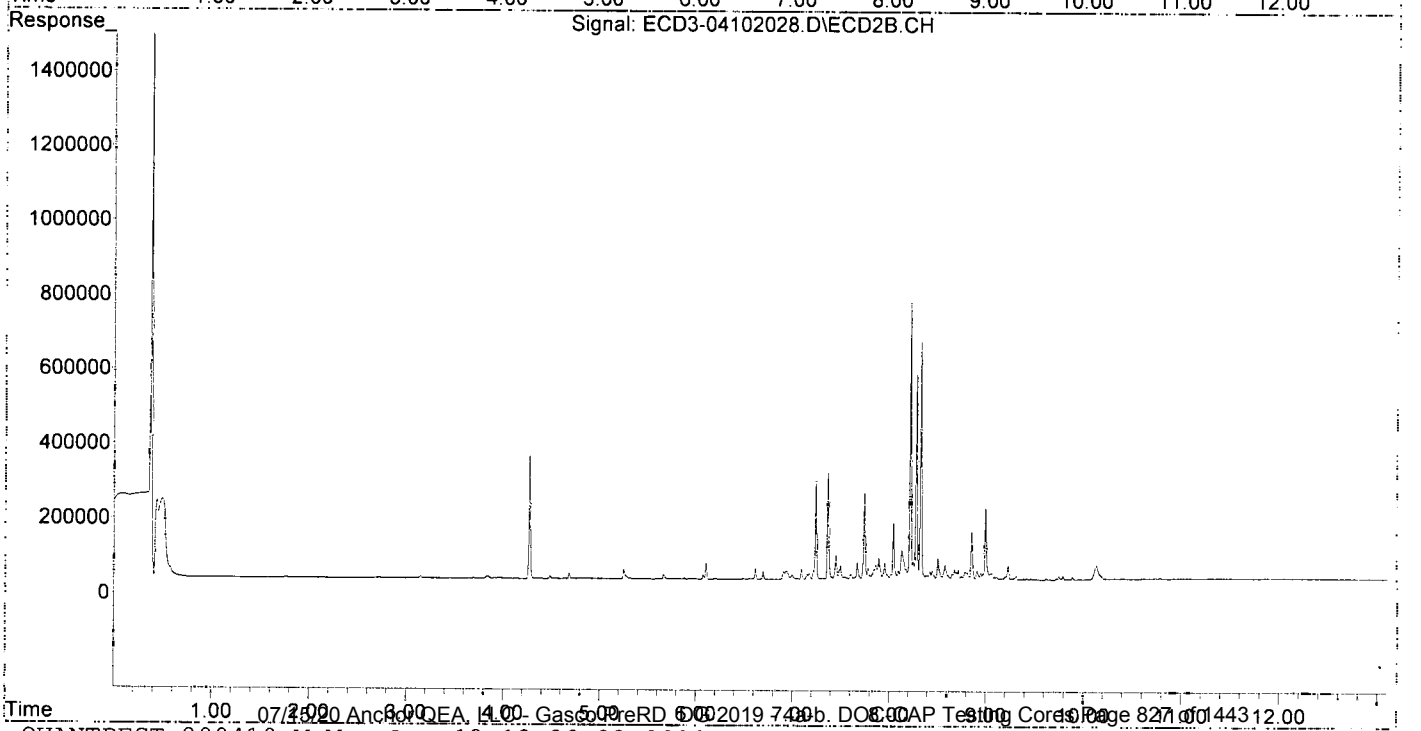
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:57
Operator : MJB
Sample : 0D10031-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:51:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:14
Operator : MJB
Sample : 0D10031-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:51:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

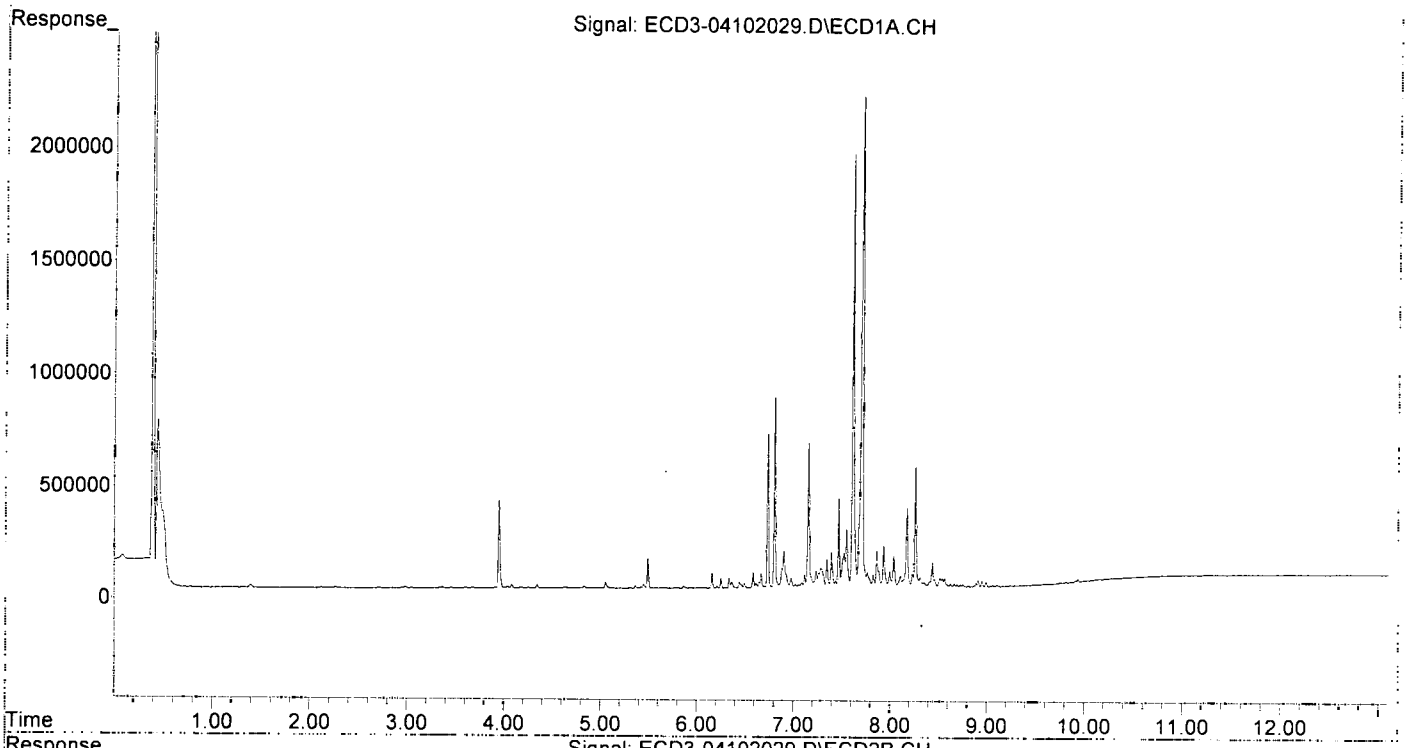
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	7.613	8.220	1921243	1636710	99.480	128.528
33)		Chlordane...	7.709	8.329	2178319	1360439	98.968	125.998
34)		Chlordane...	8.265	8.997	525276	395685	87.375	130.823 #
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

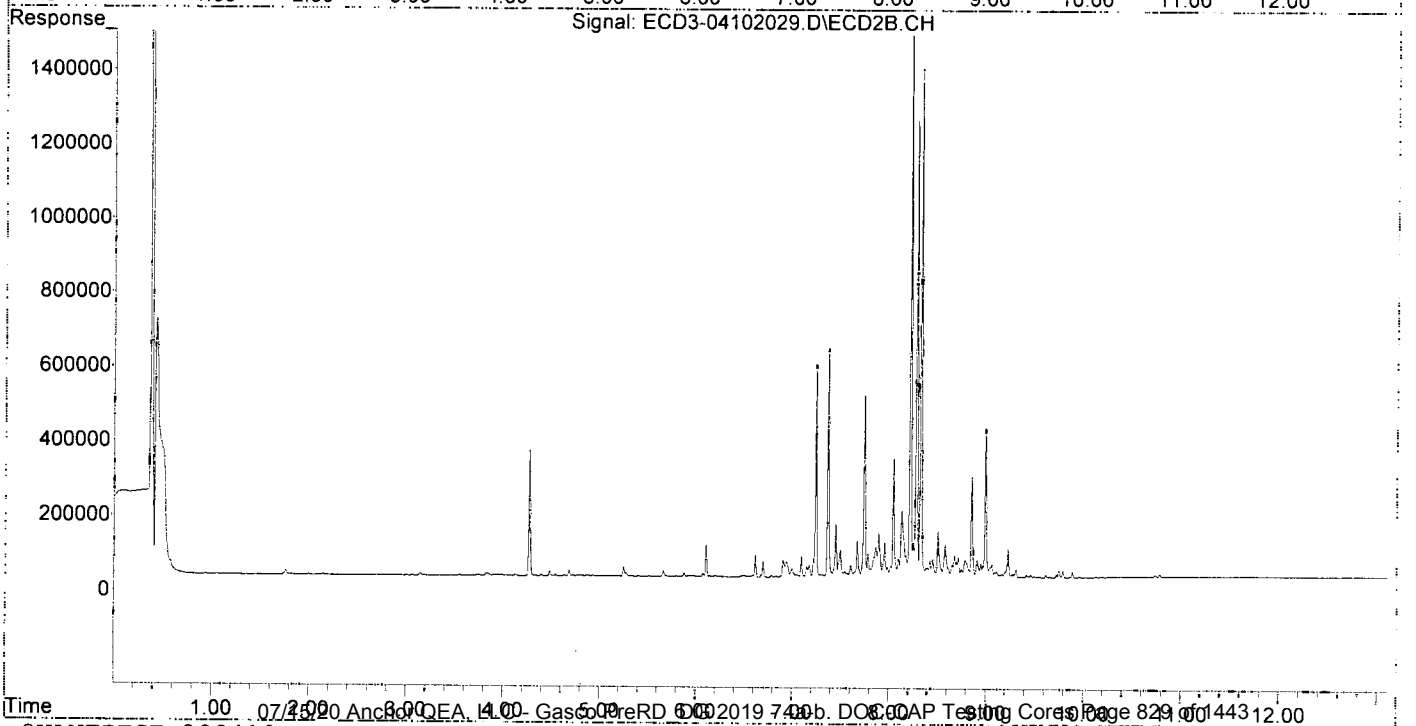
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:14
Operator : MJB
Sample : 0D10031-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:51:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:31
Operator : MJB
Sample : 0D10031-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:52:29 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

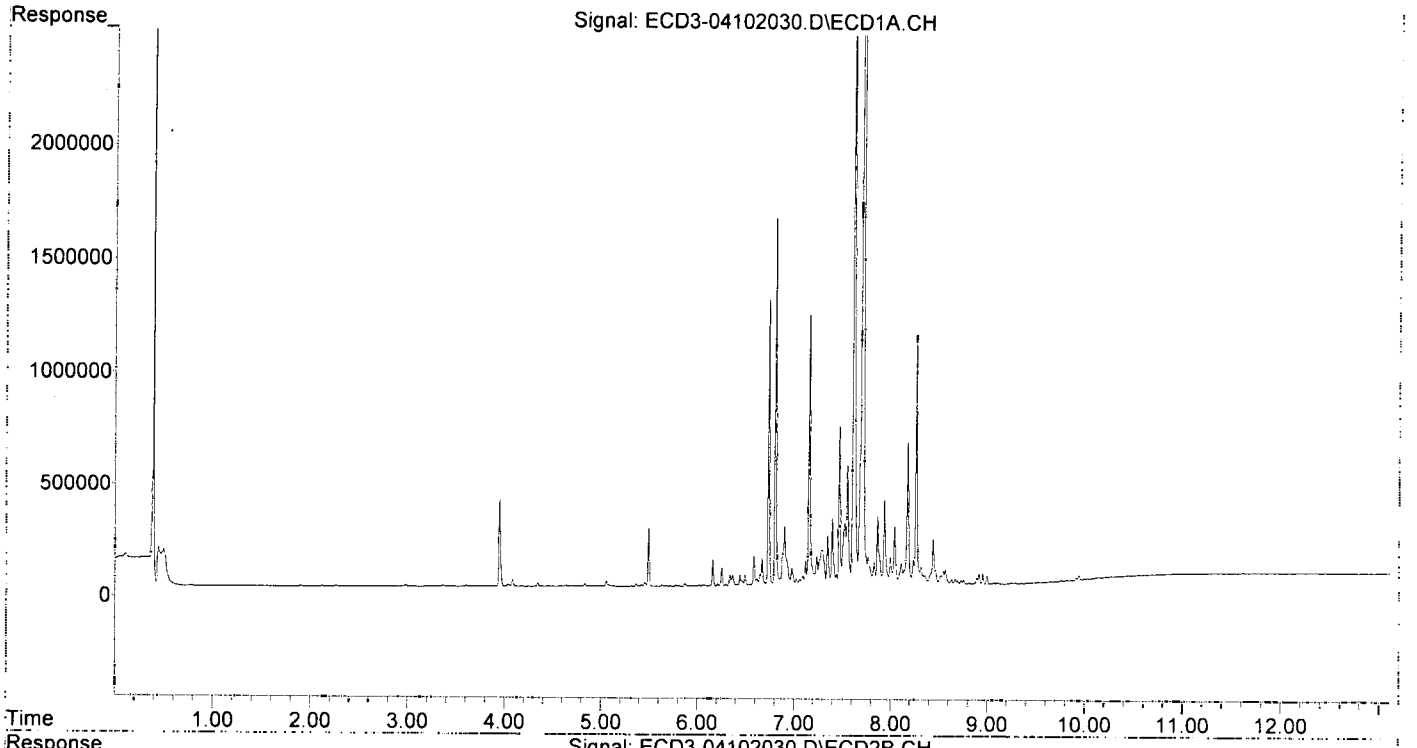
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	7.613	8.220	3546473	2904795	183.634	228.109
33)		Chlordane...	7.707	8.328	4127220	2508298	187.513	232.308
34)		Chlordane...	8.265	8.996	1111336	745316	184.861	255.675
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

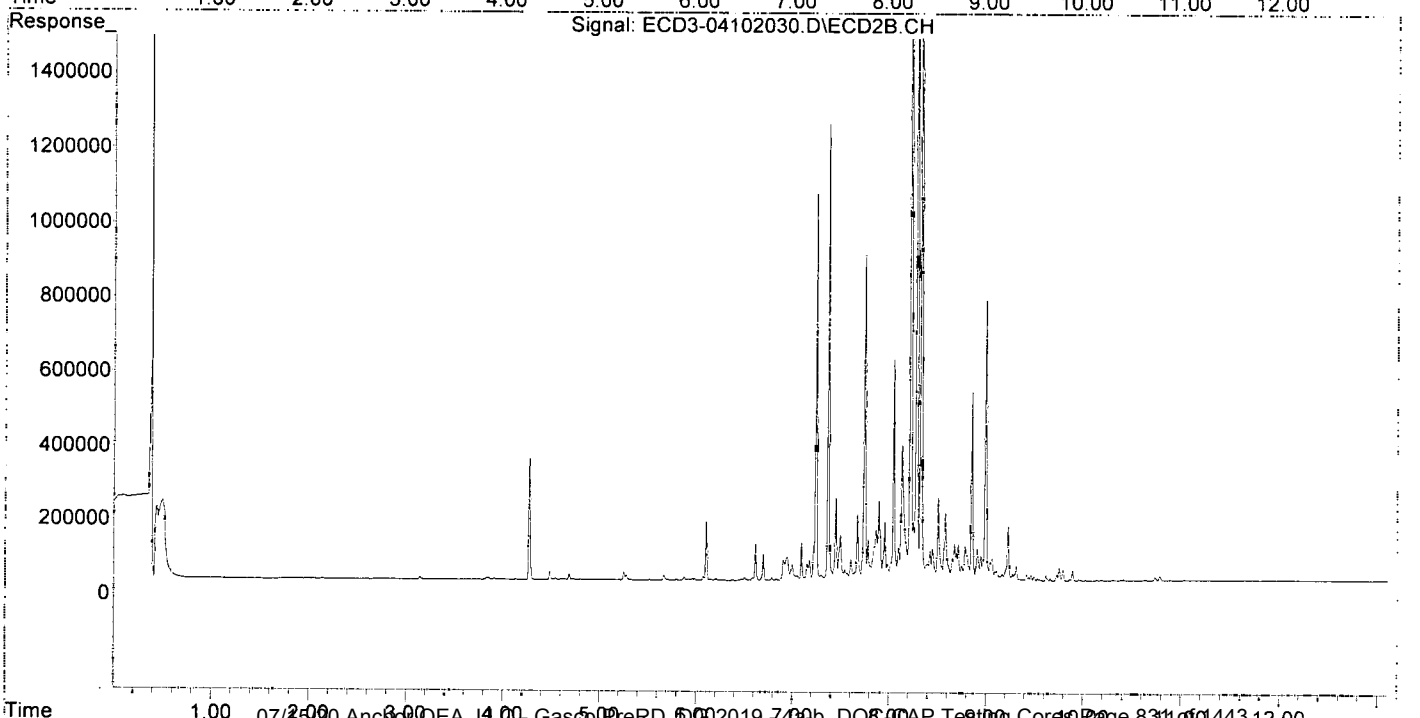
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:31
Operator : MJB
Sample : 0D10031-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:52:29 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:49
Operator : MJB
Sample : 0D10031-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:49:34 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/14/20

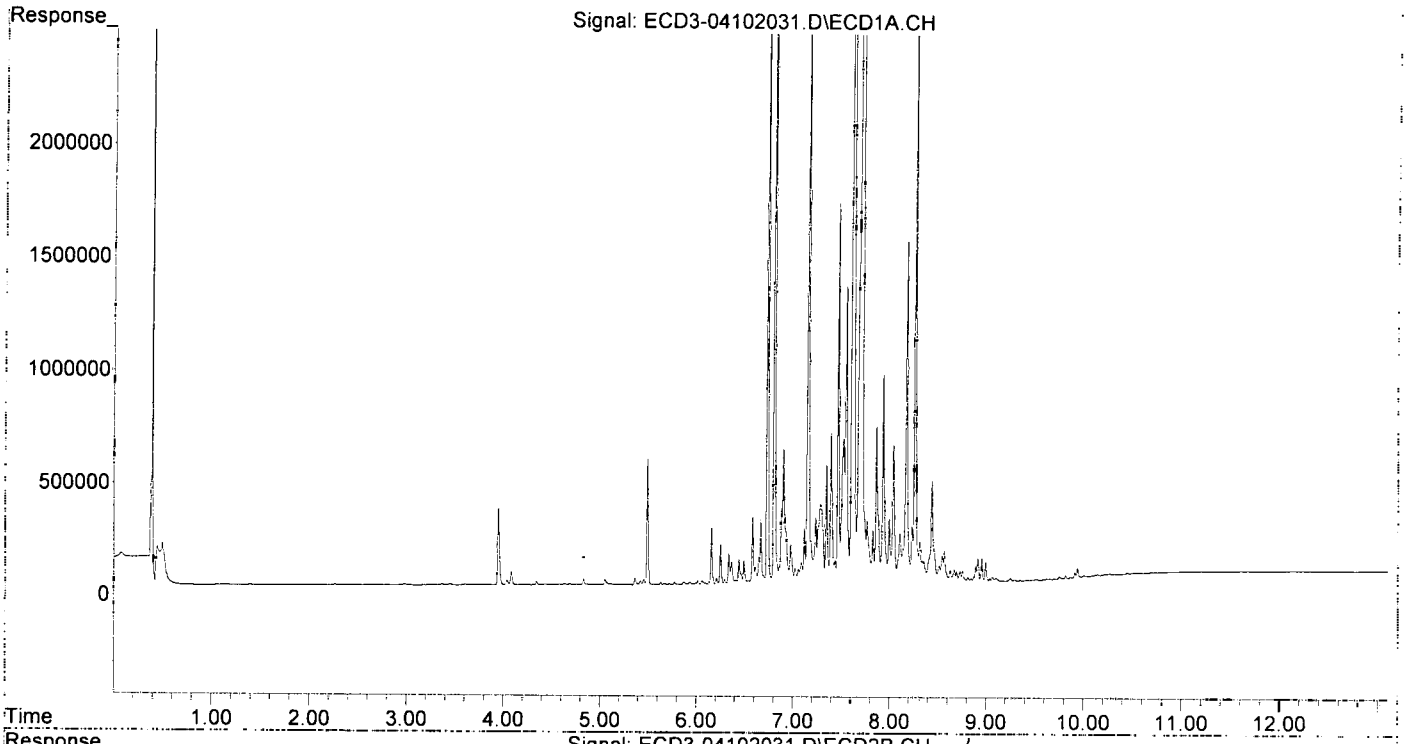
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.613	8.220	8257015	6758715	427.542	530.752
33)	Chlordane...	7.707	8.329	9851749	5655525	447.596	523.792
34)	Chlordane...	8.264	8.997	2640047	1759160	439.150	612.410
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

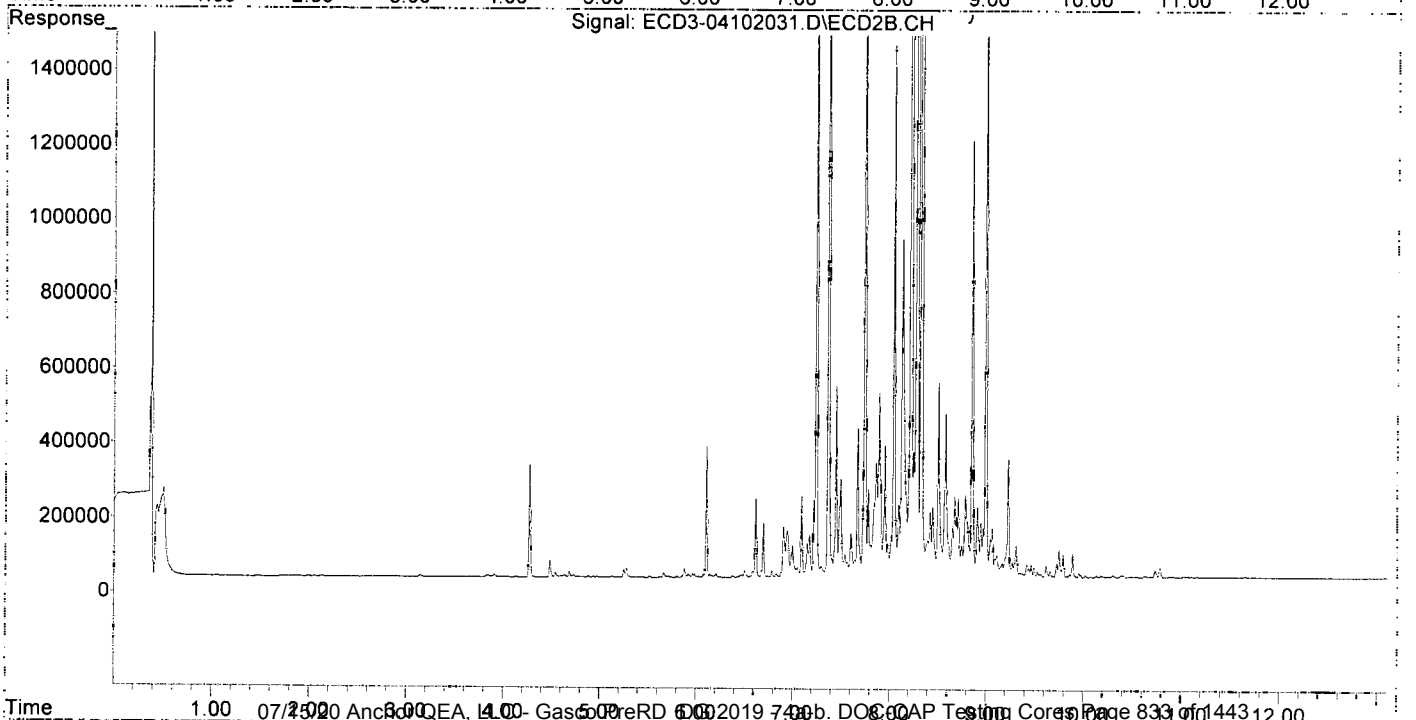
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:49
Operator : MJB
Sample : 0D10031-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:49:34 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:06
Operator : MJB
Sample : 0D10031-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:53:05 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

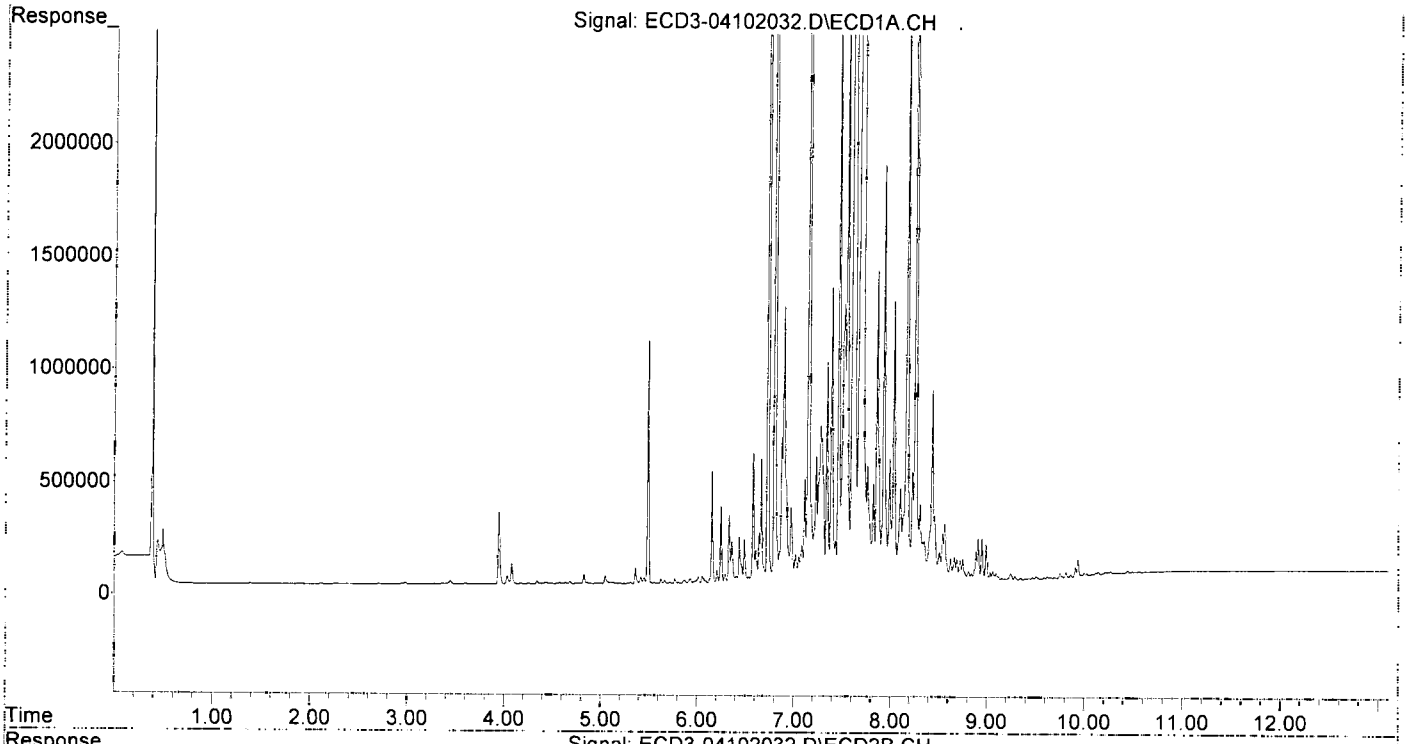
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.612	8.219	16297810	12939873	843.888	1016.149
33)	Chlordane...	7.706	8.327	18923452	11101616	859.752	1028.187
34)	Chlordane...	8.264	8.996	4918547	3349788	818.159	1157.152 #
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

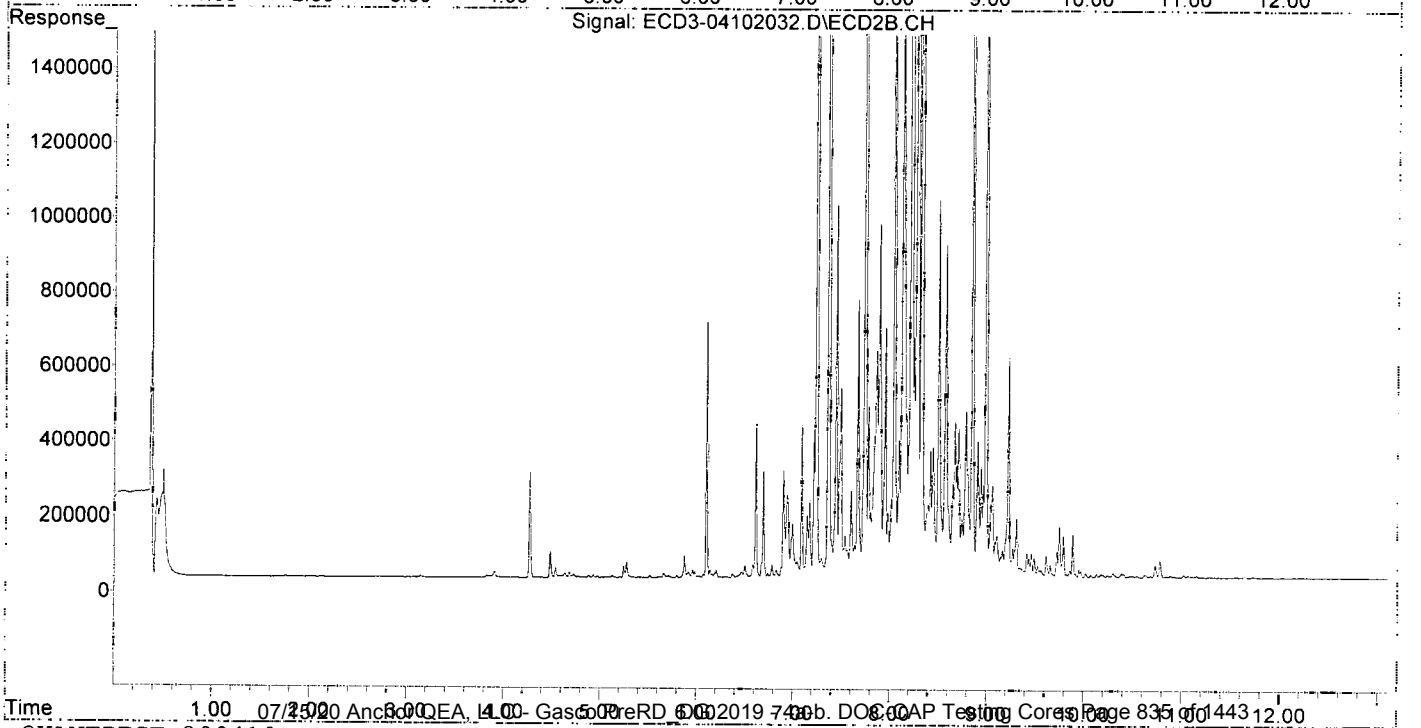
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:06
Operator : MJB
Sample : 0D10031-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:53:05 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:23
Operator : MJB
Sample : 0D10031-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:54:13 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

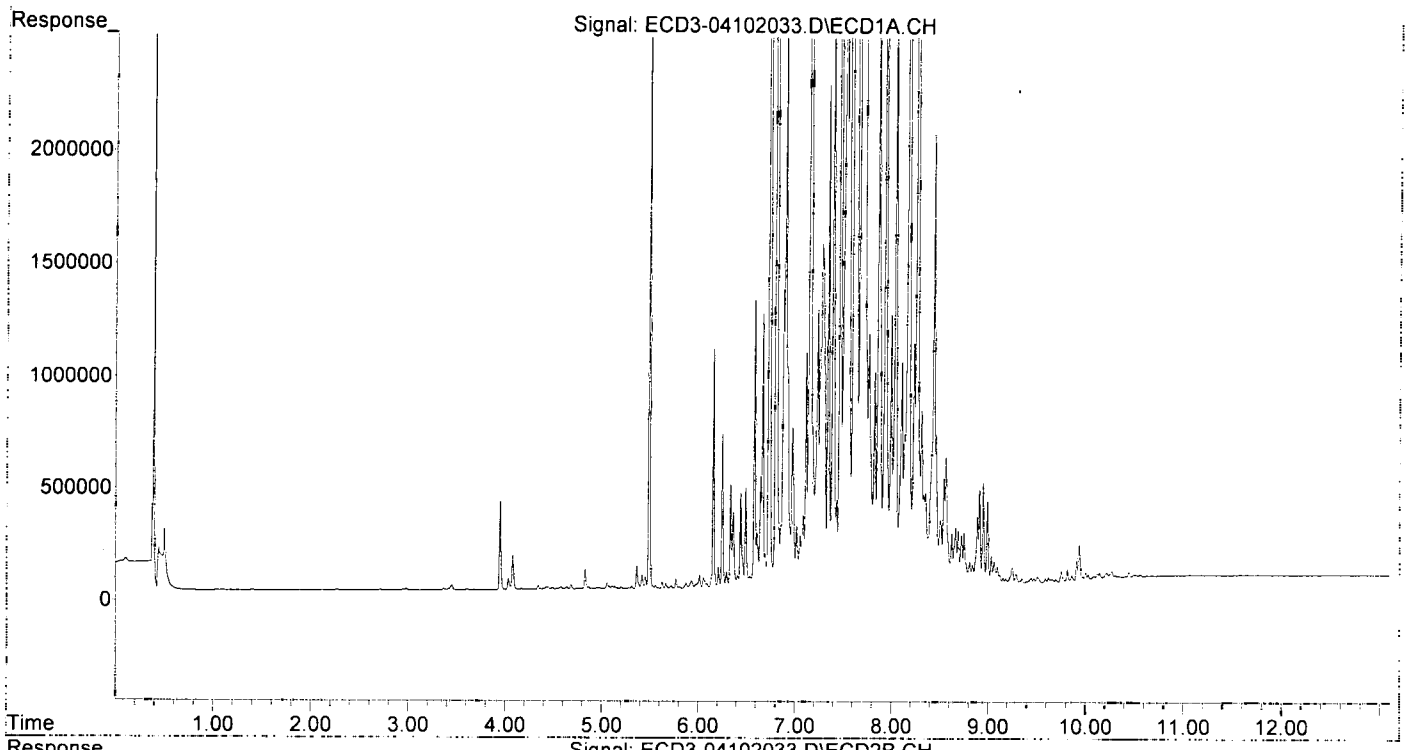
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	7.612	8.219	36805140	27125757	1905.741	2130.146
33)		Chlordane...	7.707	8.328	42306718	22830370	1922.129	2114.457
34)		Chlordane...	8.263	8.996	11270916	7528954	1874.822	2512.150
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

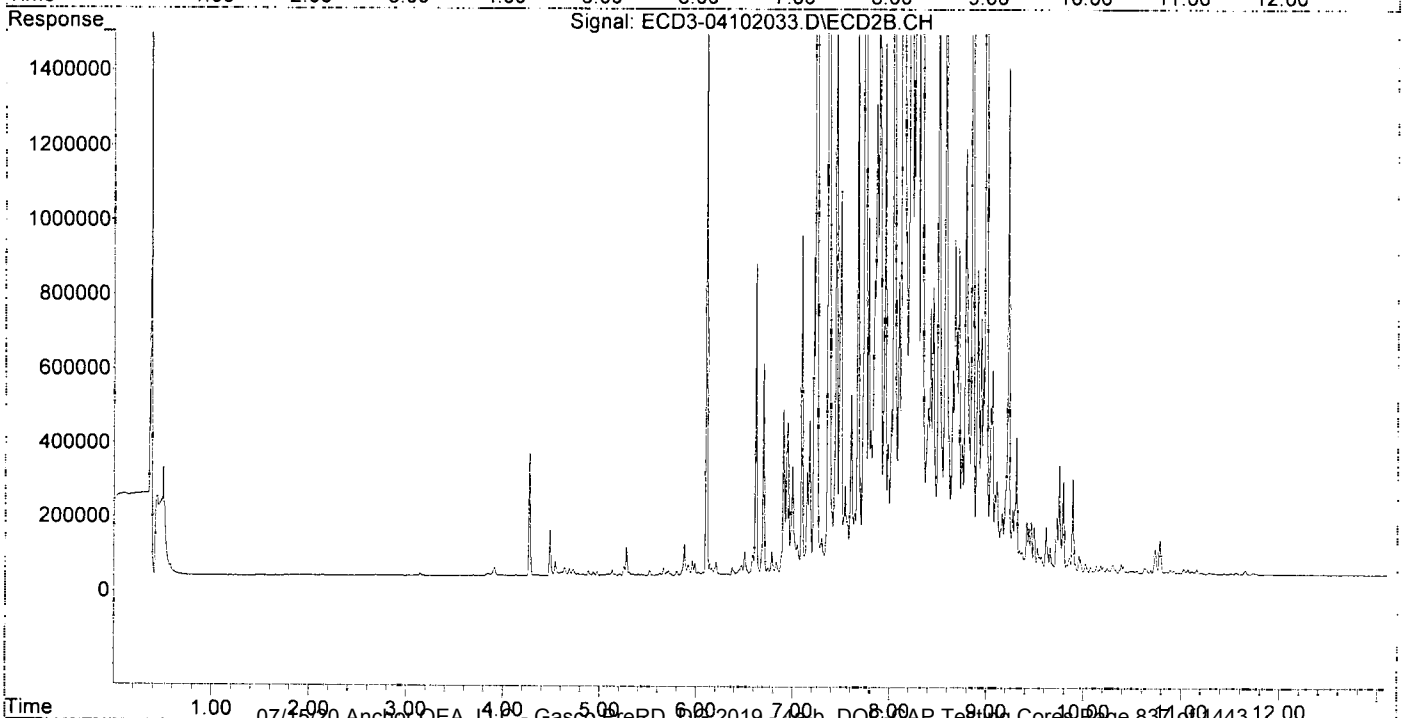
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:23
Operator : MJB
Sample : 0D10031-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:54:13 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:59:00 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

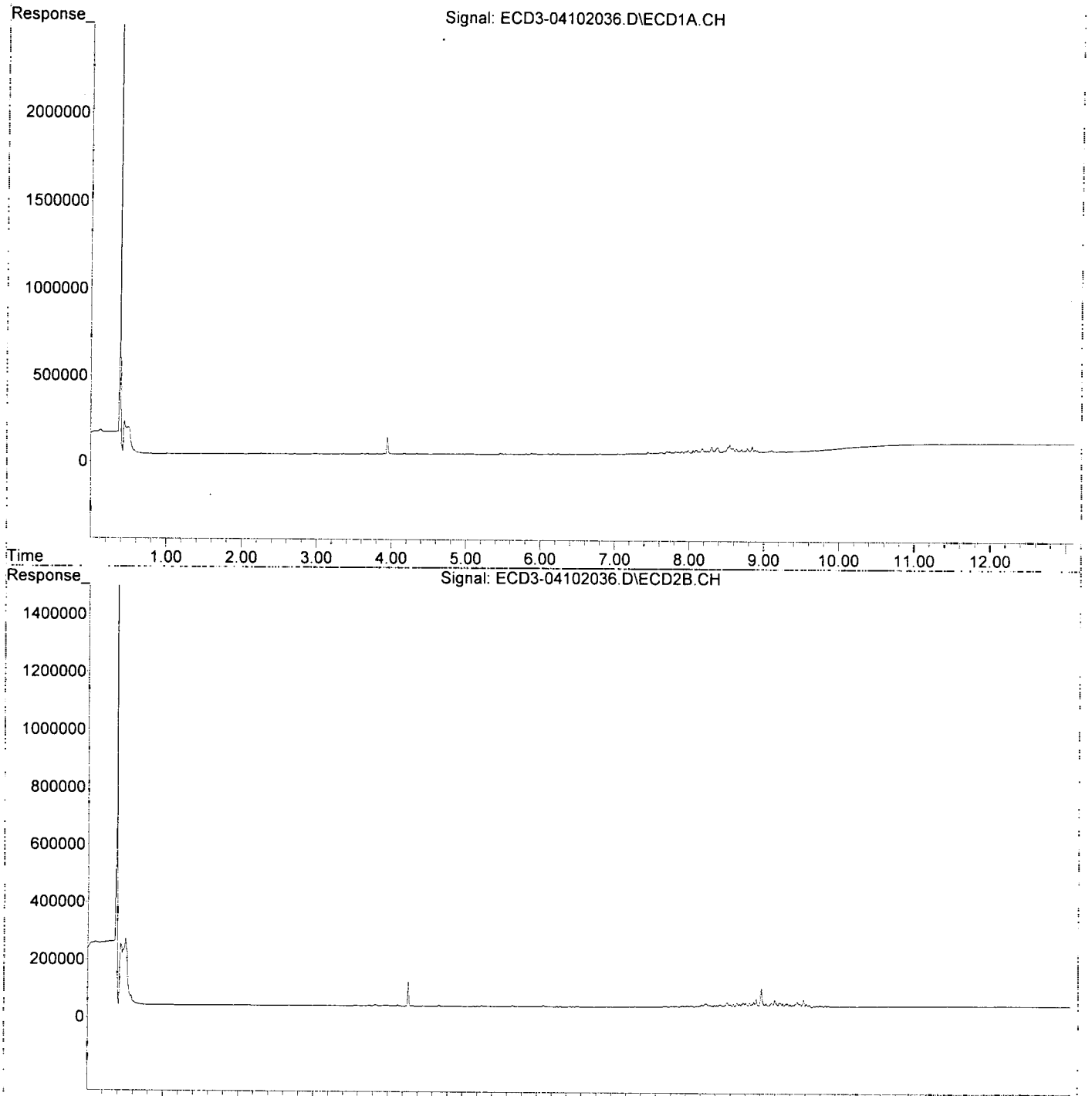
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.702	8.558	9912	11439	12.065	13.951
37)	Toxaphene...	7.986	8.909	15559	14963	9.888	15.107 #
38)	Toxaphene...	8.302	8.944	32449	26120	10.031	14.313 #
39)	Toxaphene...	8.543	9.011	44818	62570	14.219	20.594 #
40)	Toxaphene...	8.775	9.190	23487	23927	9.678	16.587 #
41)	Toxaphene...	8.844	9.574	34168	24338	11.035	14.662
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:59:00 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:31
Operator : MJB
Sample : 0D10031-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:59:37 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

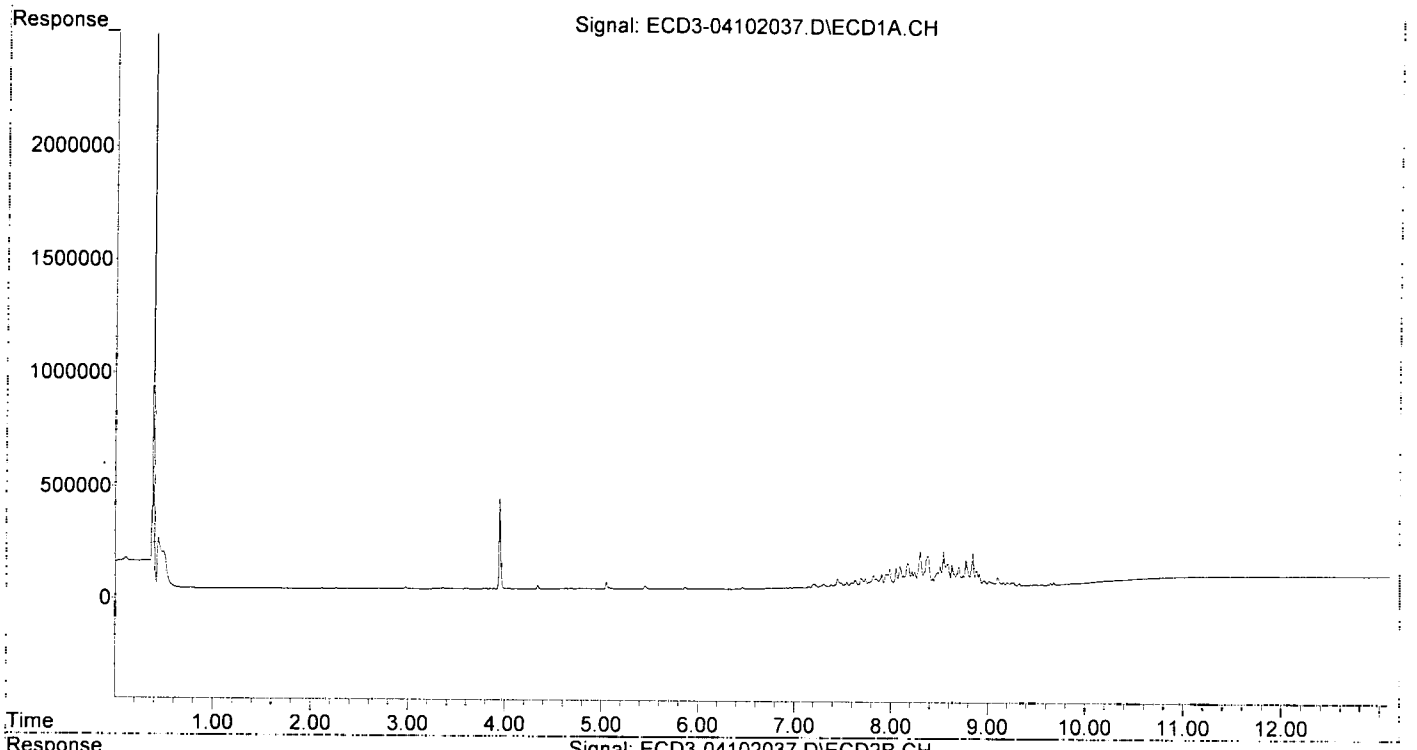
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	7.689	8.558	41998	61319	51.119	74.788 #
37)		Toxaphene...	7.985	8.909	82518	72536	52.441	73.236
38)		Toxaphene...	8.302	8.944	158918	114478	49.128	72.680 #
39)		Toxaphene...	8.544	9.012	158276	190413	50.214	75.400 #
40)		Toxaphene...	8.775	9.190	119137	99407	49.091	68.914 #
41)		Toxaphene...	8.844	9.574	150990	103198	48.765	72.323 #
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

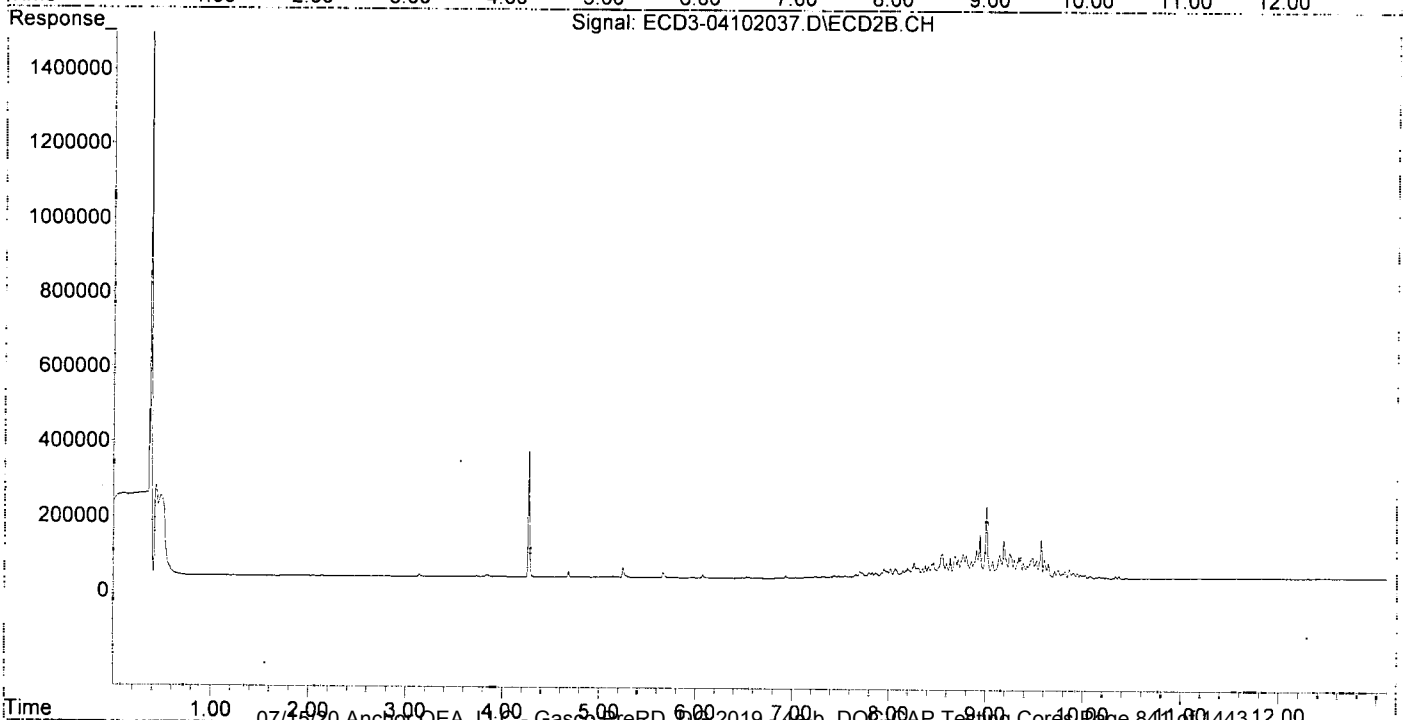
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:31
Operator : MJB
Sample : 0D10031-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:59:37 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:48
Operator : MJB
Sample : 0D10031-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:00:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MP 4/13/20

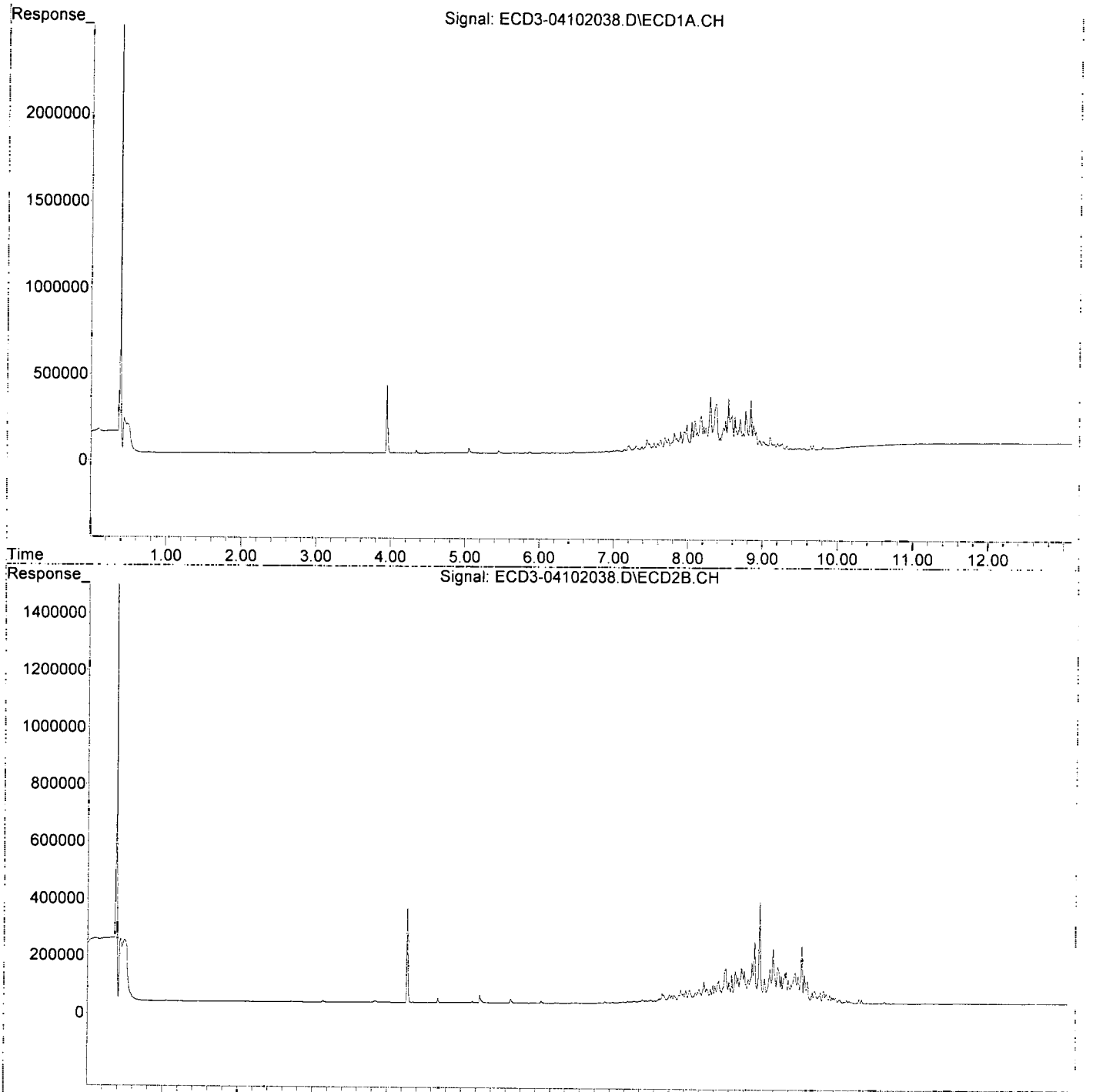
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.688	8.558	83308	116776	101.402	142.428 #
37)	Toxaphene...	7.985	8.908	156502	135442	99.457	136.749
38)	Toxaphene...	8.301	8.944	311689	211094	96.355	136.526 #
39)	Toxaphene...	8.543	9.011	303785	346003	96.378	142.000 #
40)	Toxaphene...	8.775	9.190	229620	185979	94.616	128.930
41)	Toxaphene...	8.844	9.574	291120	194265	94.023	138.789 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:48
Operator : MJB
Sample : 0D10031-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:00:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:05
Operator : MJB
Sample : 0D10031-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:00:49 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

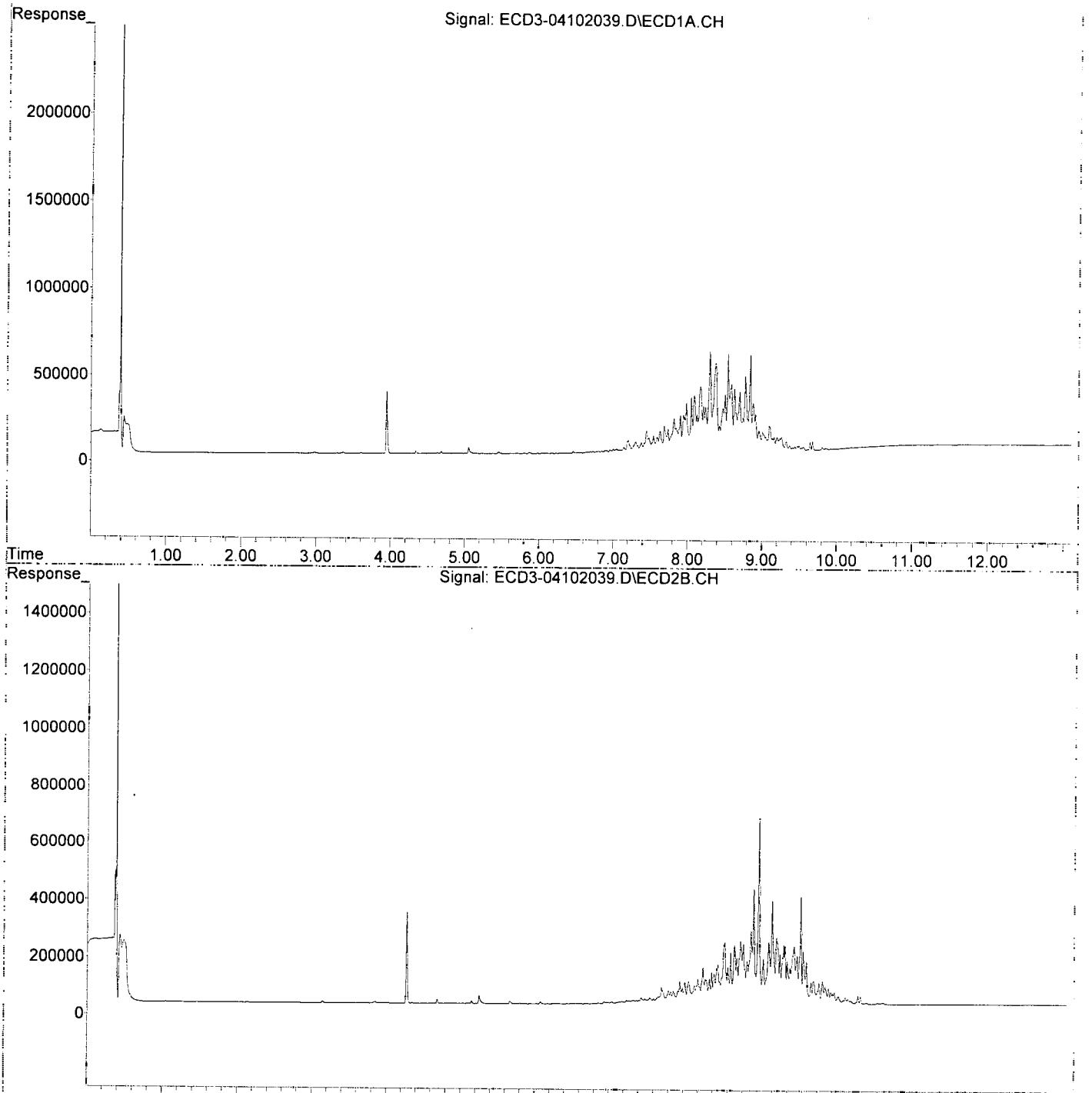
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.686	8.557	153469	208550	186.801	254.362
37)	Toxaphene...	7.984	8.907	286085	248644	181.807	251.044
38)	Toxaphene...	8.299	8.943	586224	394858	181.225	258.033 #
39)	Toxaphene...	8.542	9.011	565257	639556	179.331	267.346 #
40)	Toxaphene...	8.774	9.189	439278	355753	181.007	246.625
41)	Toxaphene...	8.842	9.573	559171	370159	180.595	266.802 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:05
Operator : MJB
Sample : 0D10031-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:00:49 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:22
Operator : MJB
Sample : 0D10031-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:57:09 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

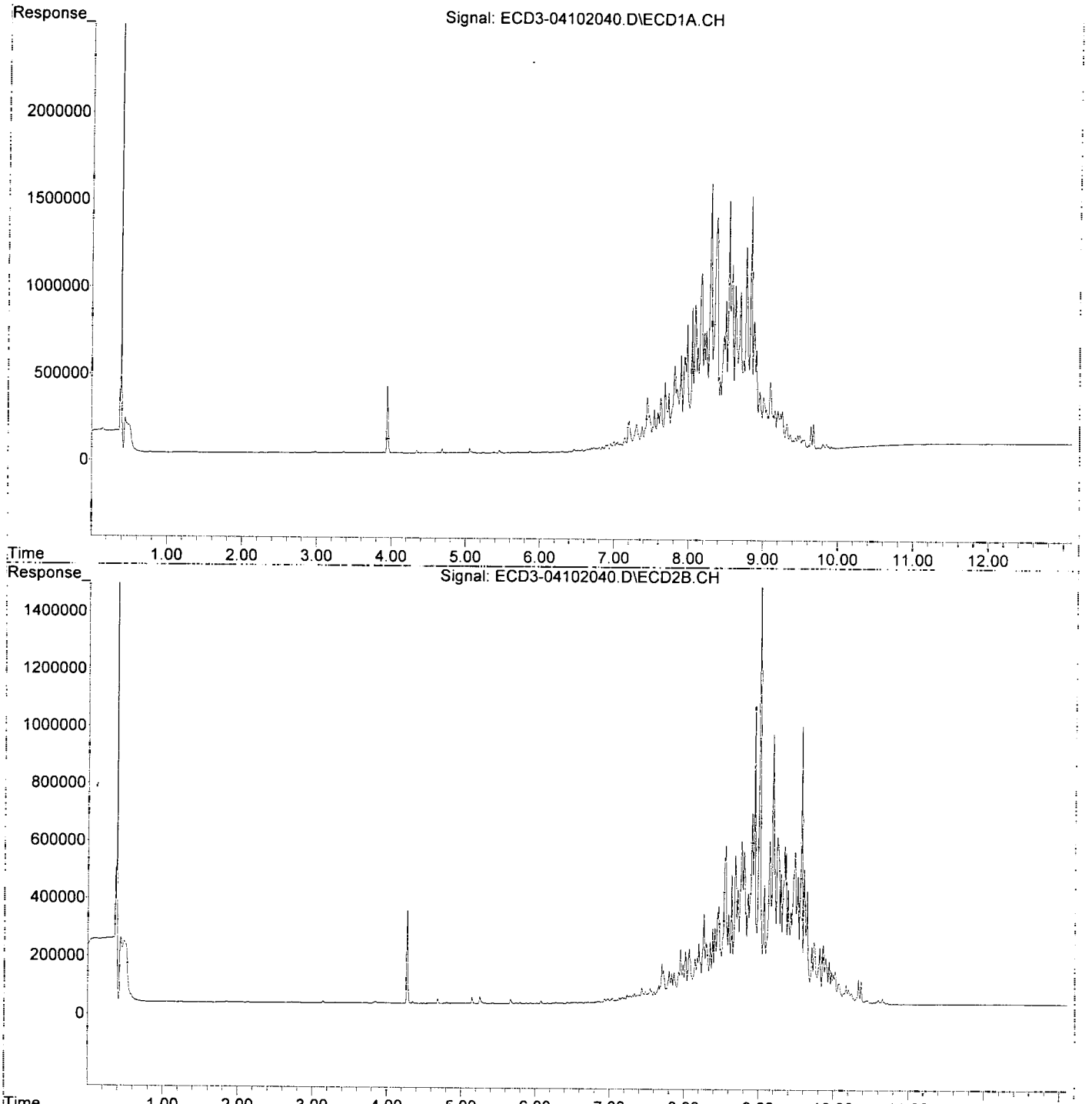
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.685	8.556	400599	549025	487.607	669.629
37)	Toxaphene...	7.982	8.906	728788	661072	463.146	667.452 #
38)	Toxaphene...	8.298	8.942	1540725	1031208	476.299	679.516 #
39)	Toxaphene...	8.541	9.010	1443047	1630720	457.816	687.655 #
40)	Toxaphene...	8.772	9.187	1171966	932303	482.916	646.317
41)	Toxaphene...	8.842	9.572	1468060	958890	474.140	691.839 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:22
Operator : MJB
Sample : 0D10031-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:57:09 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:39
Operator : MJB
Sample : 0D10031-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:01:32 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

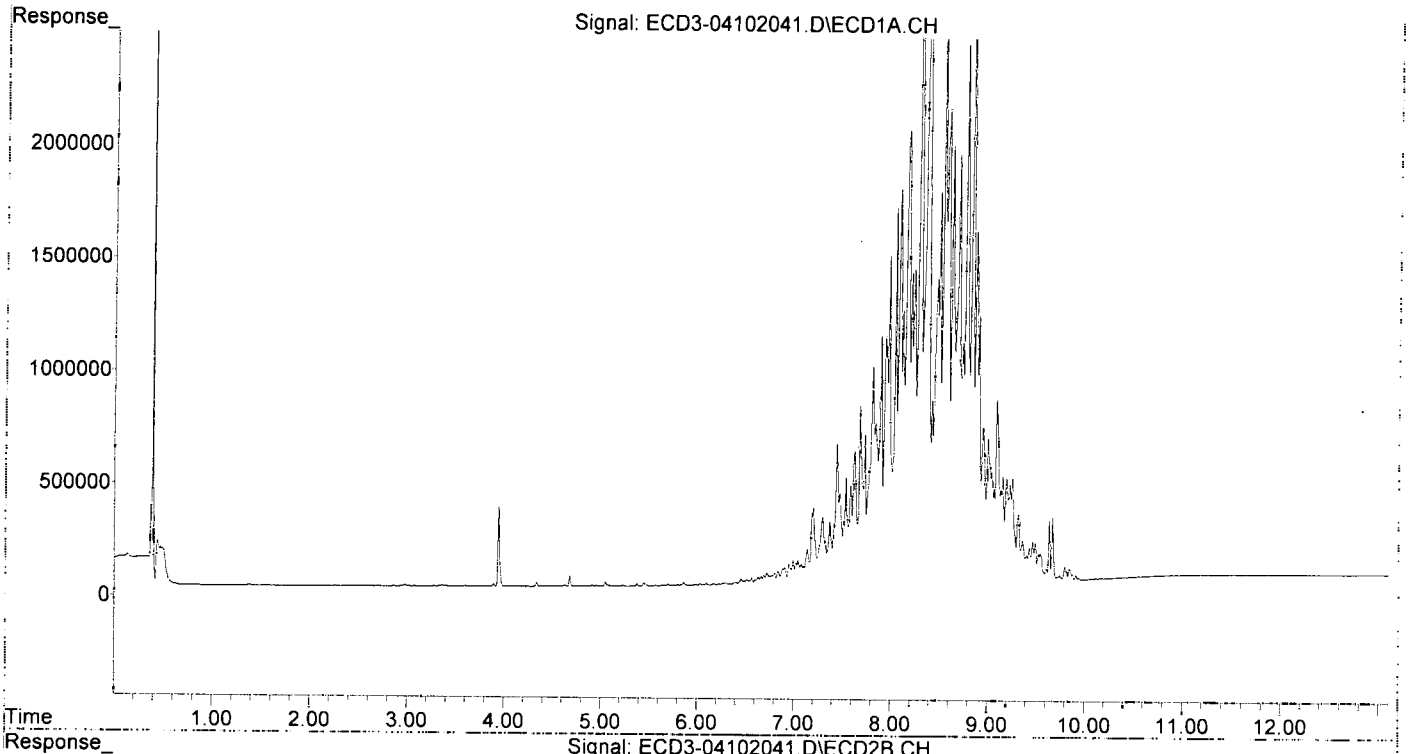
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.684	8.556	793856	1091279	966.275	1330.999
37)	Toxaphene...	7.982	8.906	1453876	1317514	923.940	1330.229 #
38)	Toxaphene...	8.298	8.942	3092888	2068991	956.133	1369.306 #
39)	Toxaphene...	8.541	9.010	2982259	3308655	946.140	1389.257 #
40)	Toxaphene...	8.773	9.188	2385429	1879026	982.932	1302.631
41)	Toxaphene...	8.842	9.571	3017263	1938338	974.486	1387.659 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

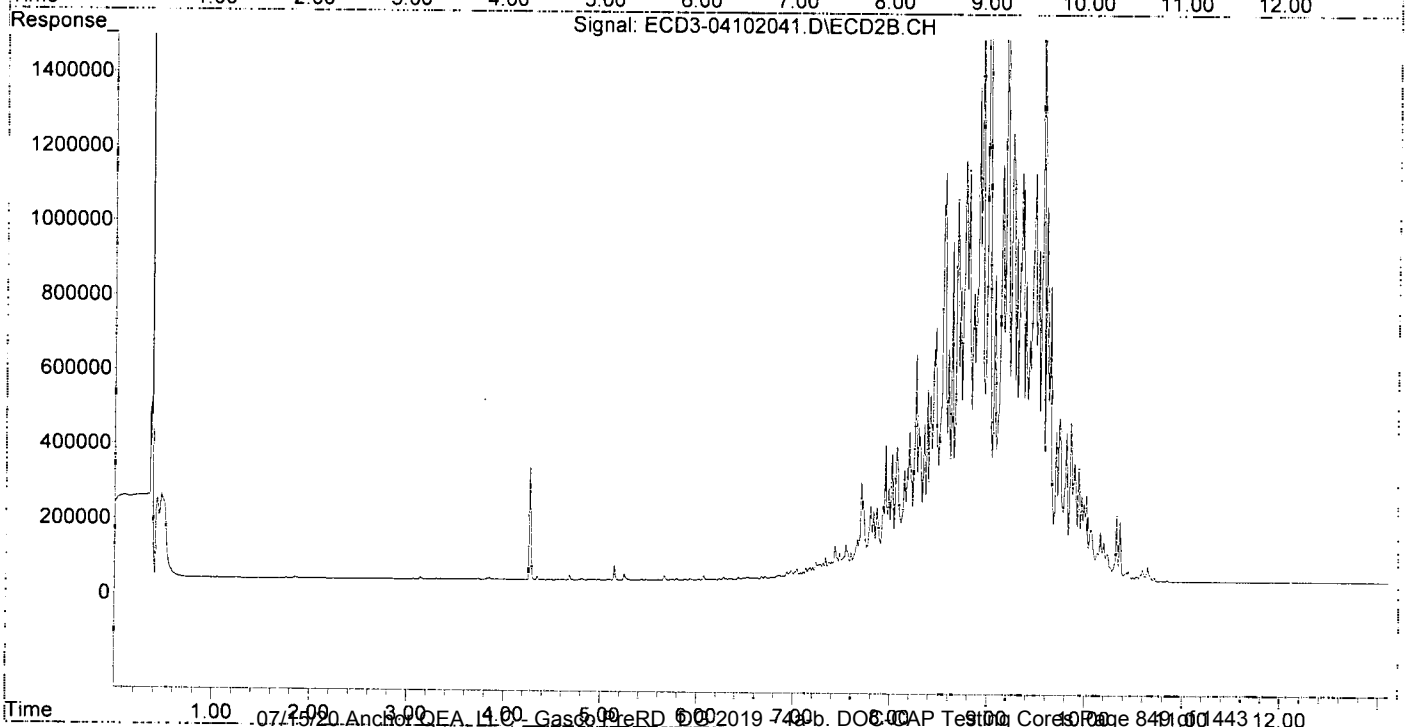
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:39
Operator : MJB
Sample : 0D10031-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:01:32 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:56
Operator : MJB
Sample : 0D10031-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:01:59 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

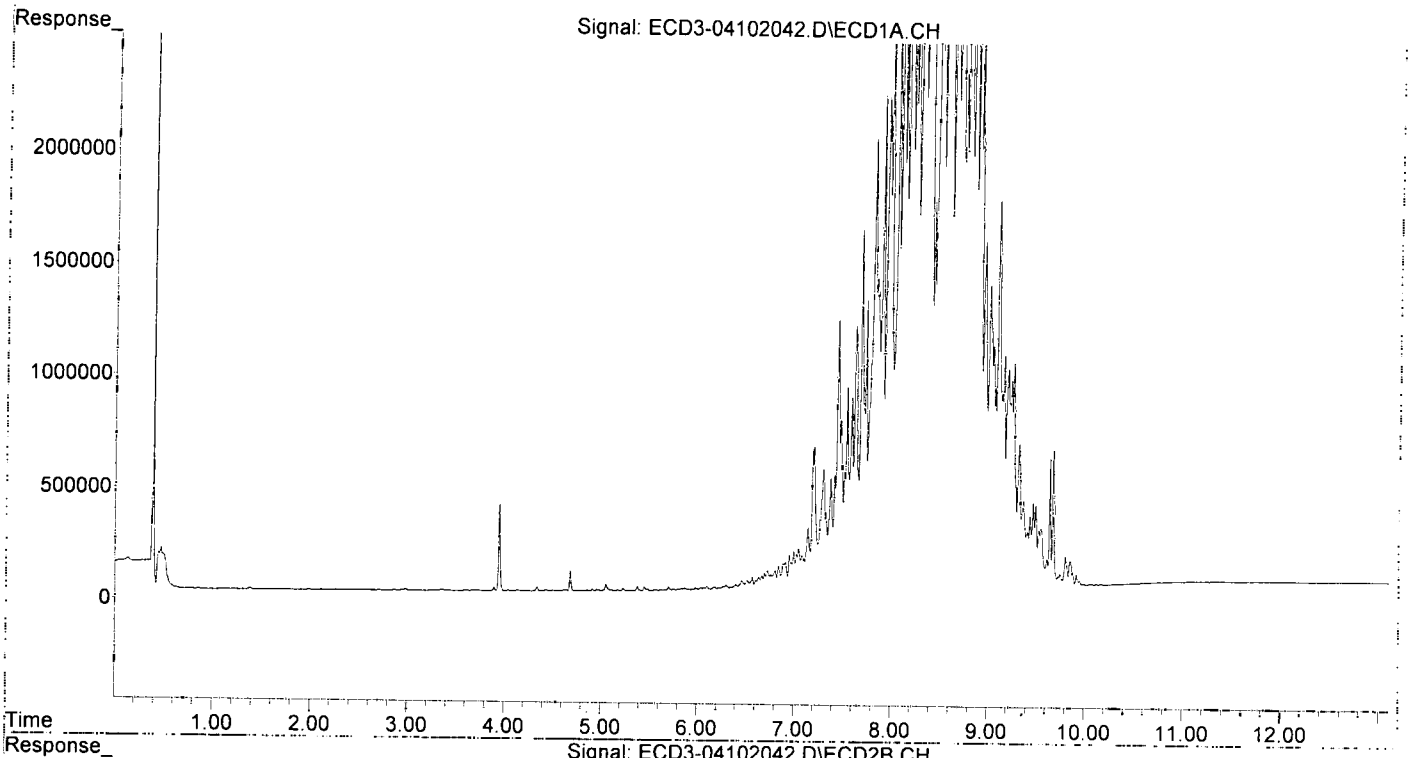
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d	
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d	
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d	
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d	
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d	
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d	
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d	
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d	
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d	
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d	
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d	
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d	
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d	
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d	
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d	
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d	
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d	
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d	
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d	
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d	
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)	Toxaphene...	7.683	8.556	1600533	2139599	1948.157	2609.602	
37)	Toxaphene...	7.981	8.906	2869354	2728248	1823.478	2754.578	#
38)	Toxaphene...	8.298	8.942	6253933	4148392	1933.337	2760.605	#
39)	Toxaphene...	8.540	9.010	6177768	6693759	1959.935	2768.944	#
40)	Toxaphene...	8.771	9.188	5064912	3797020	2087.031	2632.276	
41)	Toxaphene...	8.840	9.571	6273981	4041319	2026.308	2837.330	#
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

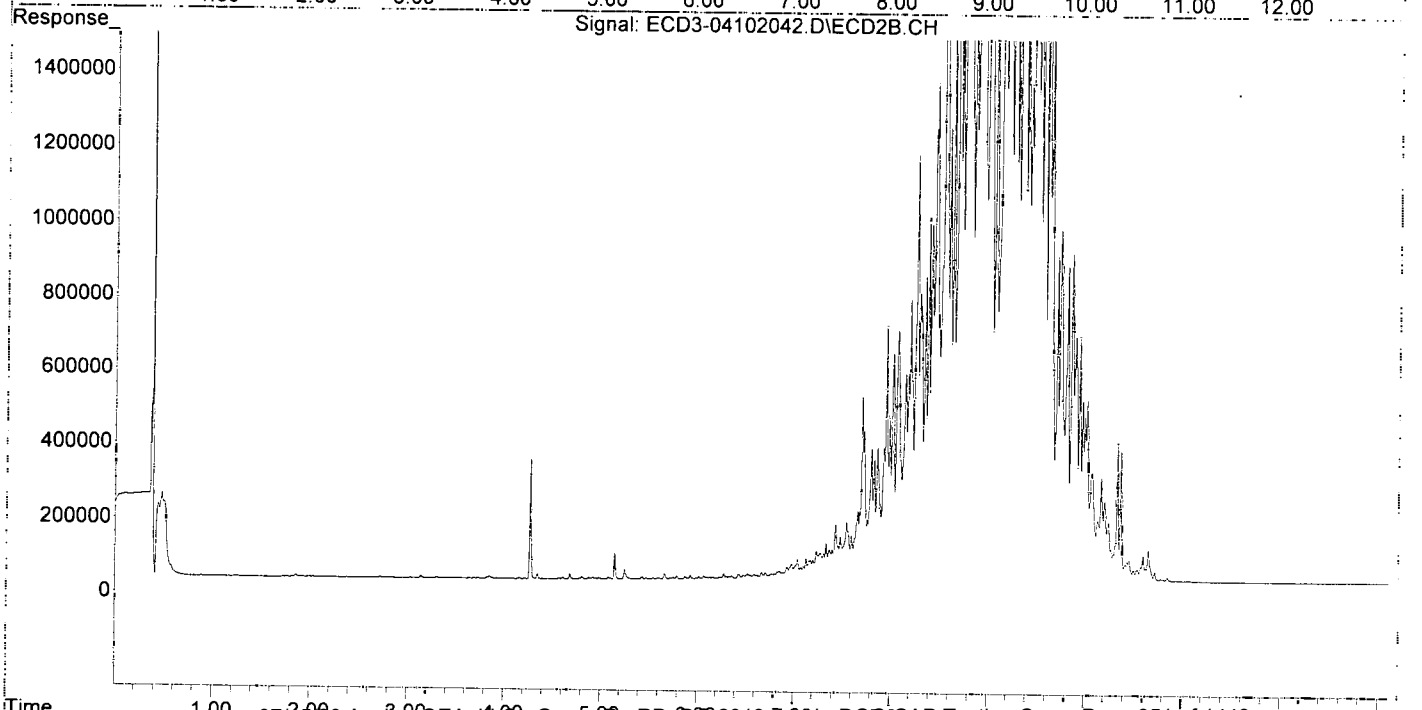
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:56
Operator : MJB
Sample : 0D10031-CALW
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ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:01:59 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data

Batch 0050624
Sequence 0E18040 (A0E0347-01RE1)

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050624 (Water)

Prep Method: EPA 3510C (Acid Extraction)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050624-BLK1		QC	05/18/20 09:39	1100	1				100					
	0050624-BLK2		QC	05/18/20 09:39	1100	1				100		Added 5/19/2020 by ams			
	0050624-BSD1		QC	05/18/20 09:39	1000	1	A20D320		50	100					
	0050624-BSD2		QC	05/18/20 09:39	1000	1	A20D320		50	100		Added 5/19/2020 by ams			
	0050624-BS1		QC	05/18/20 09:39	1000	1	A20D320		50	100					
	0050624-BS2		QC	05/18/20 09:39	1000	1	A20D320		50	100		Added 5/19/2020 by ams			
	A0E0301-02RE1	D	8270E SIM PAH	05/18/20 09:39	1000	2				100	Parcel1-Water-0520	Surr failure, Added 5/15/2020 By hml			
	A0E0302-02RE1	D	8270E SIM PAH	05/18/20 09:39	1000	2				100	Parcel2-Water-0520	Surr failure, Added 5/15/2020 By hml			
	A0E0347-01RE1	G	8270D LL PAH/PHTH/Phenols	05/18/20 09:39	1060	1				100	PDI-FB-20051212245	Surr failure, Added 5/15/2020 By hml			
	A0E0347-02RE1	G	8270D LL PAH/PHTH/Phenols	05/18/20 09:39	1050	1				100	PDI-RB-20051212245	Surr failure, Added 5/15/2020 By hml			
	A0E0412-05	I	625.1 PAH/PCP/HCB (SW)	05/18/20 12:22	1040	5				100	WR-131B (007)	No PCP			
	A0E0414-01	D	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	1040	1				100	WR-127 (001)	PAH and BEHP only			
	A0E0414-02	D	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	1040	1				100	WR-135 (013)	PAH and BEHP only			
	A0E0414-03	D	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	1040	1				100	WR-136 (014)	PAH and BEHP only			
	A0E0414-04	D	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	1070	1				100	WR-141 (019)	PAH and BEHP only			
	A0E0415-18	E	8270E LL Pentachlorophenol (PCP)	05/18/20 11:02	1010	1				100	GW-PW-68A-0520				
	A0E0415-18RE1	E	8270E LL Pentachlorophenol (PCP)	05/18/20 11:02	1010	1				100	GW-PW-68A-0520	Added 5/19/2020 By ams			
	A0E0425-01	C	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	1070	1				100	DW4-5-14-20	report PCP, Benzo(a)pyrene and Bis-2-ethylhexyl) phthalate			
	A0E0425-02	B	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	1070	1				100	DW6-5-14-20	report PCP, Benzo(a)pyrene and Bis-2-ethylhexyl) phthalate			
	A0E0429-04	H	8270E SIM PAH	05/18/20 09:39	850	2				100	GW-B1				
	A0E0429-05	H	8270E SIM PAH	05/18/20 09:39	940	2				100	GW-B2				

Prepared By: _____ Date _____

Reviewed By: RMW Date 5/20/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050624 (Water)

Prep Method: EPA 3510C (Acid Extraction)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	A0E0429-06	H	8270E SIM PAH	05/18/20 09:39	840	2				100	GW-B3				
	A0E0447-01	E	8270E LL PAH/PHTH/Phenols	05/18/20 09:39	1060	1				100	SL02-24	PAH only			
	A0E0447-02	E	8270E LL PAH/PHTH/Phenols	05/18/20 09:39	1060	1				100	SL02.1-21	PAH only			
	A0E0447-03	E	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	1070	1				100	SL02.2-21	PAH only			
	A0E0447-04	E	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	1070	1				100	SL03-23	PAH only			
	A0E0483-01	C	8270E SIM PAH (16)	05/18/20 12:22	1020	2				100	RD-051820-334	MDL, custom: Benz AA, BAP, Dibenz, Indeno only			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20A078	01/14/22	Conc. HCl - Omnitrace
A20B017	08/01/20	Glass Wool
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E020	10/31/22	DCM CHEM PROD. 197898

Analyte Spike(s)

Std ID	Exp. Date	Description
A20D320	10/19/20	8270D PAH+/Phenols (JSCS) Spike @ 80 PPM

Surrogate(s)

Std ID	Exp. Date	Description
A20E103	11/08/20	PAH Soil and Water Surr. (50ppm)

3x rinse

Witness: _____

Bottle Check: _____

Prepared By: _____ Date _____

Reviewed By: _____ Date _____

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050624 (Water)

Prep Method: EPA 3510C (Acid Extraction)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050624-BLK1		QC	05/18/20 09:39	1100	1				100					
	0050624-BSD1		QC	05/18/20 09:39	1000	1	A20D320		50	100					
	0050624-BS1		QC	05/18/20 09:39	1000	1	A20D320		50	100					
	A0E0301-02RE1	D	8270E SIM PAH	05/18/20 09:39	1000	2				100	Parcel1-Water-05 20	Surr failure, Added 5/15/2020 By hml			
	A0E0302-02RE1	D	8270E SIM PAH	05/18/20 09:39	1000	2				100	Parcel2-Water-05 20	Surr failure, Added 5/15/2020 By hml			
	A0E0347-01RE1	G	8270D LL PAH/PHTH/Phenols	05/18/20 09:39	1060	1				100	PDI-FB-2005121 245	Surr failure, Added 5/15/2020 By hml			
	A0E0347-02RE1	G	8270D LL PAH/PHTH/Phenols	05/18/20 09:39	1050	1				100	PDI-RB-2005121 245	Surr failure, Added 5/15/2020 By hml			
	A0E0412-05	H	625.1 PAH/PCP/HCB (SW)	05/18/20 12:22	~~1000~~ 1040	5				100	WR-131B (007)	No PCP	✓		
	A0E0414-01	D	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	~~1000~~ 1040	1				100	WR-127 (001)	PAH and BEHP only	✓		
	A0E0414-02	D	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	~~1000~~ 1040	1				100	WR-135 (013)	PAH and BEHP only	✓		
	A0E0414-03	D	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	~~1000~~ 1040	1				100	WR-136 (014)	PAH and BEHP only	✓		
	A0E0414-04	D	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	~~1000~~ 1070	1				100	WR-141 (019)	PAH and BEHP only	✓		
	A0E0415-18	E	8270E LL Pentachlorophenol (PCP)	05/18/20 11:02	~~1000~~ 1010	1				100	GW-PW-68A-05 20		✓		
	A0E0425-01	C	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	~~1000~~ 1070	1				100	DW4-5-14-20	report PCP, Benzo(a)pyrene and Bis-2-ethylhexyl) phthalate	✓		
	A0E0425-02	B	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	~~1000~~ 1070	1				100	DW6-5-14-20	report PCP, Benzo(a)pyrene and Bis-2-ethylhexyl) phthalate	✓		
	A0E0429-04	H	8270E SIM PAH	05/18/20 09:39	850	2				100	GW-B1				
	A0E0429-05	H	8270E SIM PAH	05/18/20 09:39	940	2				100	GW-B2				
	A0E0429-06	H	8270E SIM PAH	05/18/20 09:39	840	2				100	GW-B3				
	A0E0447-01	E	8270E LL PAH/PHTH/Phenols	05/18/20 09:39	1060	1				100	SL02-24	PAH only			
	A0E0447-02	E	8270E LL PAH/PHTH/Phenols	05/18/20 09:39	1060	1				100	SL02.1-21	PAH only			

Prepared By: [signature] Date: 05-18-20

Reviewed By: [signature] Date: 05/18/2020

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050624 (Water)

Prep Method: EPA 3510C (Acid Extraction)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	A0E0447-03	E	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	~~1000~~ 1070	1 ✓				100	SL02.2-21 ✓	PAH only	✓		
	A0E0447-04	E	8270E LL PAH/PHTH/Phenols	05/18/20 11:02	~~1000~~ 1070	1 ✓				100	SL03-23 ✓	PAH only		✓	
	A0E0483-01	C	8270E SIM PAH (16)	05/18/20 12:22	~~1000~~ 1020	2 ✓				100	RD-051820-334 ✓	MDL, custom: Benz AA, BAP, Dibenz, Indeno only	✓		

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20A078	01/14/22	Conc. HCl - Omnitrace
A20B017	08/01/20	Glass Wool
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E020	10/31/22	DCM CHEM PROD. 197898

Analyte Spike(s)

Std ID	Exp. Date	Description
A20D320	10/19/20	8270D PAH+/Phenols (JSCS) Spike @ 80 PPM

Surrogate(s) ccm

Std ID	Exp. Date	Description
A20E103	11/08/20	PAH Soil and Water Surr. (50ppm)

3x rinse ✓ ccm 05-18-20

Witness: _____

Bottle Check: JAG 5/18/2020

Prepared By: _____ Date _____

Reviewed By: _____ Date _____

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050624 (Water)

Prep Method: EPA 3510C (Acid Extraction)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050624-BLK1		QC	05/18/20 09:39	~~1000~~ 1100	1 ✓				100			✓		
	0050624-BSD1		QC	05/18/20 09:39	1000	1 ✓	A20D320		~~100~~ 50	100			✓		
	0050624-BS1		QC	05/18/20 09:39	1000	1 ✓	A20D320		~~100~~ 50	100			✓		
	A0E0301-02RE1	D	8270E SIM PAH	05/18/20 09:39	1000	2 ✓				100	Parcel1-Water-05 20 ✓	Surr failure, Added 5/15/2020 By hml D #	✓		
	A0E0302-02RE1	D	8270E SIM PAH	05/18/20 09:39	1000	2 ✓				100	Parcel2-Water-05 20 ✓	Surr failure, Added 5/15/2020 By hml D #	✓		
	A0E0347-01RE1	G	8270D LL PAH/PHTH/Phenols	05/18/20 09:39	~~1000~~ 1060	1 ✓				100	PDI-FB-2005121 245 ✓	Surr failure, Added 5/15/2020 By hml	✓		
	A0E0347-02RE1	G	8270D LL PAH/PHTH/Phenols	05/18/20 09:39	~~1000~~ 1050	1 ✓				100	PDI-RB-2005121 245 ✓	Surr failure, Added 5/15/2020 By hml	✓		
	A0E0429-04	H	8270E SIM PAH	05/18/20 09:39	~~1000~~ 850	2 ✓				100	GW-B1 ✓	D ★	✓		
	A0E0429-05	H	8270E SIM PAH	05/18/20 09:39	~~1000~~ 940	2 ✓				100	GW-B2 ✓	D ★ L	✓		
	A0E0429-06	H	8270E SIM PAH	05/18/20 09:39	~~1000~~ 840	2 ✓				100	GW-B3 ✓	D ★	✓		
	A0E0447-01	E	8270E LL PAH/PHTH/Phenols	05/18/20 09:39	~~1000~~ 1060	1 ✓				100	SL02-24 ✓	PAH only	✓		
	A0E0447-02	E	8270E LL PAH/PHTH/Phenols	05/18/20 09:39	~~1000~~ 1060	1 ✓				100	SL02.1-21 ✓	PAH only	✓		

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20A078	01/14/22	Conc. HCl - Omnitrace
A20B017	08/01/20	Glass Wool
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E020	10/31/22	DCM CHEM PROD. 197898

Analyte Spike(s)

~~Std ID~~	Exp. Date	Description
A20D320	10/19/20	8270D PAH+/Phenols (JSCS) Spike @ 80 PPM

JC

Surrogate(s)

Std ID	Exp. Date	Description
A20E103	11/08/20	PAH Soil and Water Surr. (50ppm)

JC

3x rinse ✓

Witness: CAH 5/18/20

Bottle Check: CAH 5/18/20

D = Decanted

★ = Brought to ~1 L w/ DI H_2O

= Thick emulsion

L = Light emulsion

JC 5/18/2020
Prepared By: Date

SCC 05/18/2020
Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0E18040	Instrument:	SV-GCMS10
Date:	**05/18/20 08:16**	Calibration:	**A0E0506**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E18040-TUN1	Water	QC	QC			A20C061	A20E130
2	0E18040-CCV1	Water	QC	QC			A20C061	A20E137
3	0E18040-CCB1	Water	QC	QC			A20C061	
4	0050617-BLK2	Soil	QC	QC		0050617	A20C061	
5	0050617-BS2	Soil	QC	QC		0050617	A20C061	
6	A0E0313-01	Soil	8270E LL PAH/PHTH/Phenols		05/22/20	0050617	A20C061	
7	0050624-BLK2	Water	QC	QC		0050624	A20C061	
8	0050624-BS2	Water	QC	QC		0050624	A20C061	
9	0050624-BSD2	Water	QC	QC		0050624	A20C061	
10	A0E0447-01	Water	8270E LL PAH/PHTH/Phenols		05/20/20	0050624	A20C061	
11	A0E0447-02	Water	8270E LL PAH/PHTH/Phenols		05/20/20	0050624	A20C061	
12	A0E0347-01RE1	Water	8270D LL PAH/PHTH/Phenols	Anchor QEA, LLC	05/27/20	0050624	A20C061	
13	A0E0347-02RE1	Water	8270D LL PAH/PHTH/Phenols	Anchor QEA, LLC	05/27/20	0050624	A20C061	
14	A0E0447-03	Water	8270E LL PAH/PHTH/Phenols		05/20/20	0050624	A20C061	
15	A0E0447-04	Water	8270E LL PAH/PHTH/Phenols		05/20/20	0050624	A20C061	
16	A0E0414-01	Water	8270E LL PAH/PHTH/Phenols		05/28/20	0050624	A20C061	
17	A0E0414-02	Water	8270E LL PAH/PHTH/Phenols		05/28/20	0050624	A20C061	
18	A0E0414-03	Water	8270E LL PAH/PHTH/Phenols		05/28/20	0050624	A20C061	
19	A0E0414-04	Water	8270E LL PAH/PHTH/Phenols		05/28/20	0050624	A20C061	
20	A0E0415-18	Water	8270E LL Pentachlorophenol (PCP)		05/28/20	0050624	A20C061	
21	A0E0412-05	Water	625.1 PAH/PCP/HCB (SW)		05/28/20	0050624	A20C061	
22	0E18040-IBL1	Water	QC	QC			A20C061	

Data Entered By: AMS 5/19/20

Comments:

Data Reviewed By: JK 5/19/20

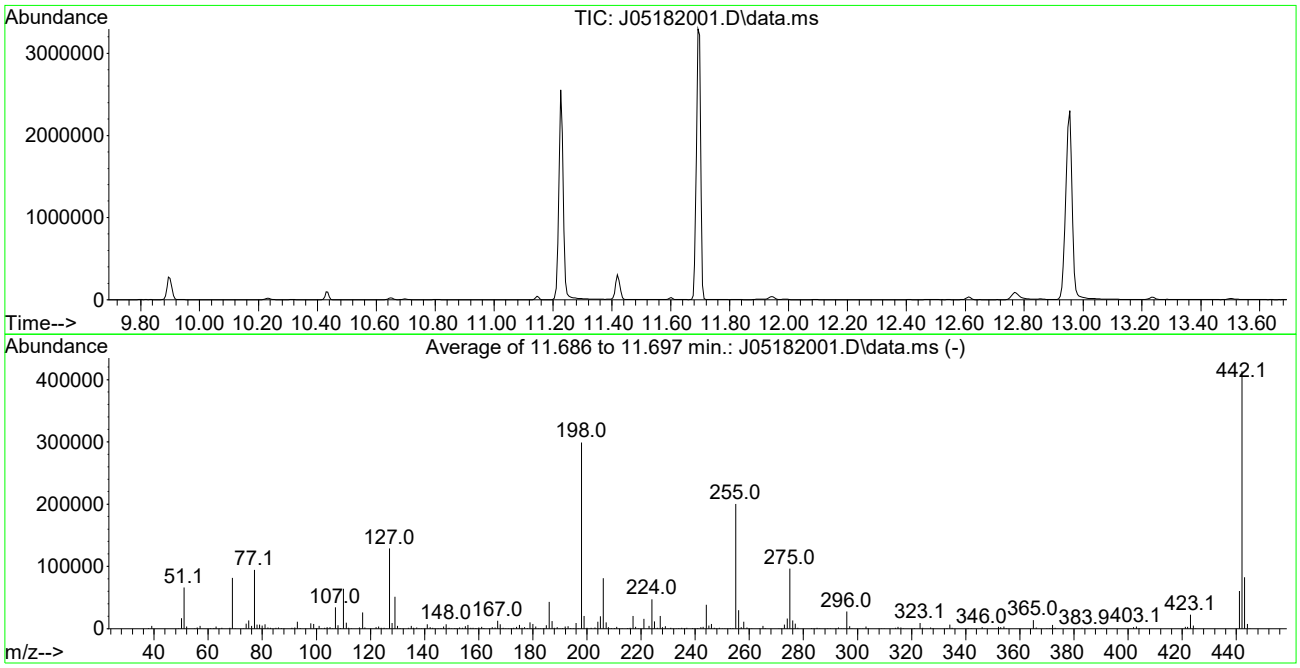
5/19/2020 9:28:57AM

AMS 5/18/20

Data Path : T:\data\2020-05\0E18040\
Data File : J05182001.D
Acq On : 18 May 2020 10:32 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : T:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Mon May 04 10:56:48 2020



AutoFind: Scans 1533, 1534, 1535; Background Corrected with Scan 1529

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	1279	PASS
69	198	0.01	100	27.2	81405	PASS
70	69	0.00	2	0.5	397	PASS
197	198	0.00	2	0.1	380	PASS
198	198	100	100	100.0	299264	PASS
199	198	5	9	7.0	20971	PASS
365	198	1	100	4.6	13879	PASS
441	443	0.01	150	73.3	60613	PASS
442	198	0.10	200	138.2	413696	PASS
443	442	15	24	20.0	82685	PASS

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182001.D
Acq On : 18 May 2020 10:32 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 14:54:54 2020
Quant Method : T:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration

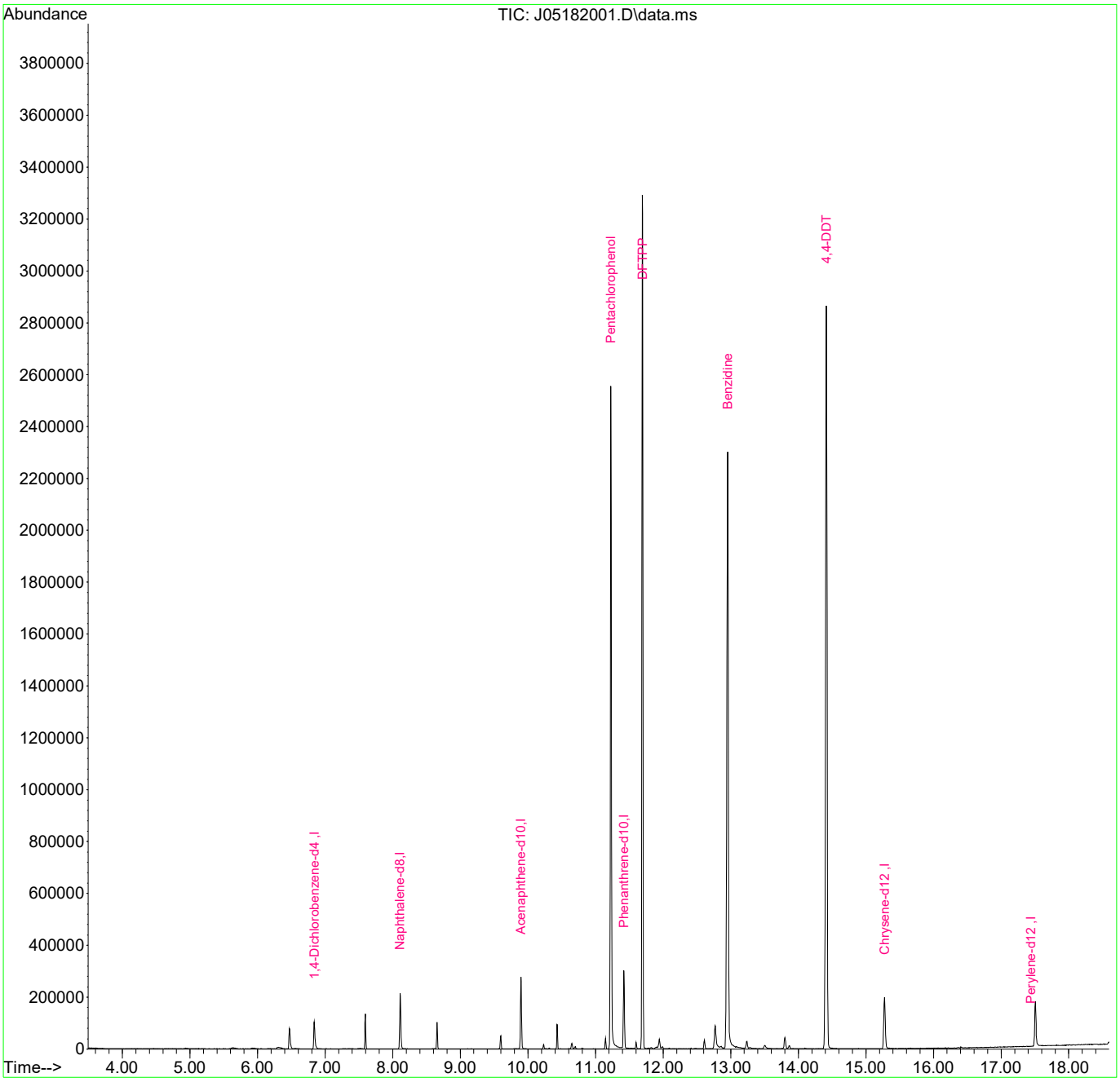
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.840	150	41384	2.00	ug/mL	0.00
2) Naphthalene-d8	8.108	136	127661	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.895	162	67513	2.00	ug/mL	0.00
5) Phenanthrene-d10	11.419	188	122568	2.00	ug/mL	0.00
11) Chrysene-d12	15.275	240	111281	2.00	ug/mL	0.00
12) Perylene-d12	17.436	264	39	2.00	ug/mL	#-0.01
Target Compounds						Qvalue
4) Pentachlorophenol	11.226	266	369657	57.98	ug/mL	84
6) DFTPP	11.697	442	533699	53.94	ug/mL#	60
7) Benzidine	12.954	184	1472467	33.77	ug/mL	97
8) 4,4-DDE	13.237	TIC	34756	No Calib		
9) 4,4-DDD	13.799	TIC	59951	No Calib		
10) 4,4-DDT	14.414	TIC	4479784	35.64	ug/mL	95

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182001.D
Acq On : 18 May 2020 10:32 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 14:54:54 2020
Quant Method : T:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration



DDT Breakdown Check (Validated 5/1/2013)

From:
0E18040-TUN1
SV-GCMS 10

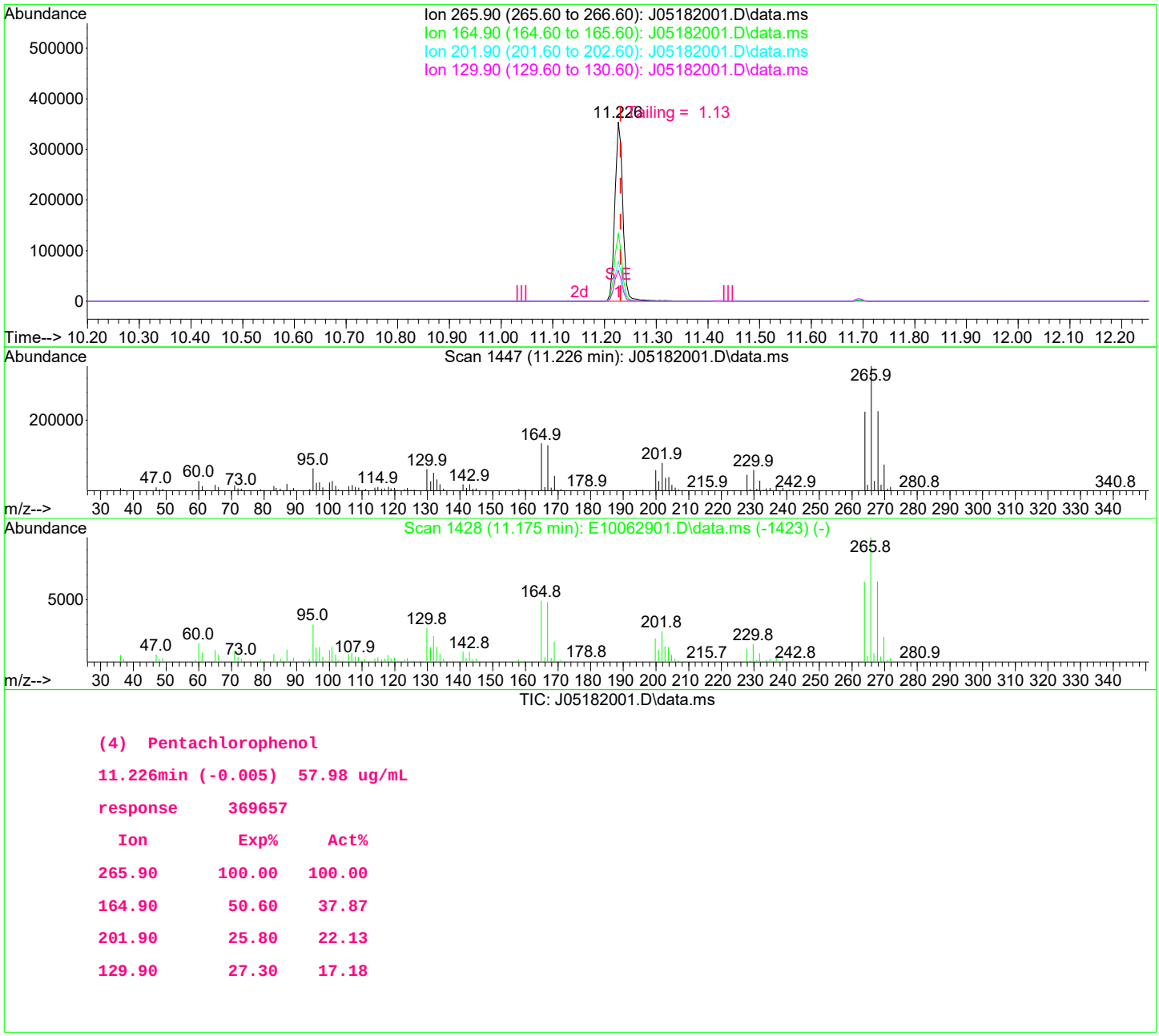
First Column	Area Counts	Percent Breakdown	
DDE	34756		
DDD	59951		
DDT	4479784	**2.07**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182001.D
Acq On : 18 May 2020 10:32 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 14:54:54 2020
Quant Method : T:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration



(4) Pentachlorophenol

11.226min (-0.005) 57.98 ug/mL

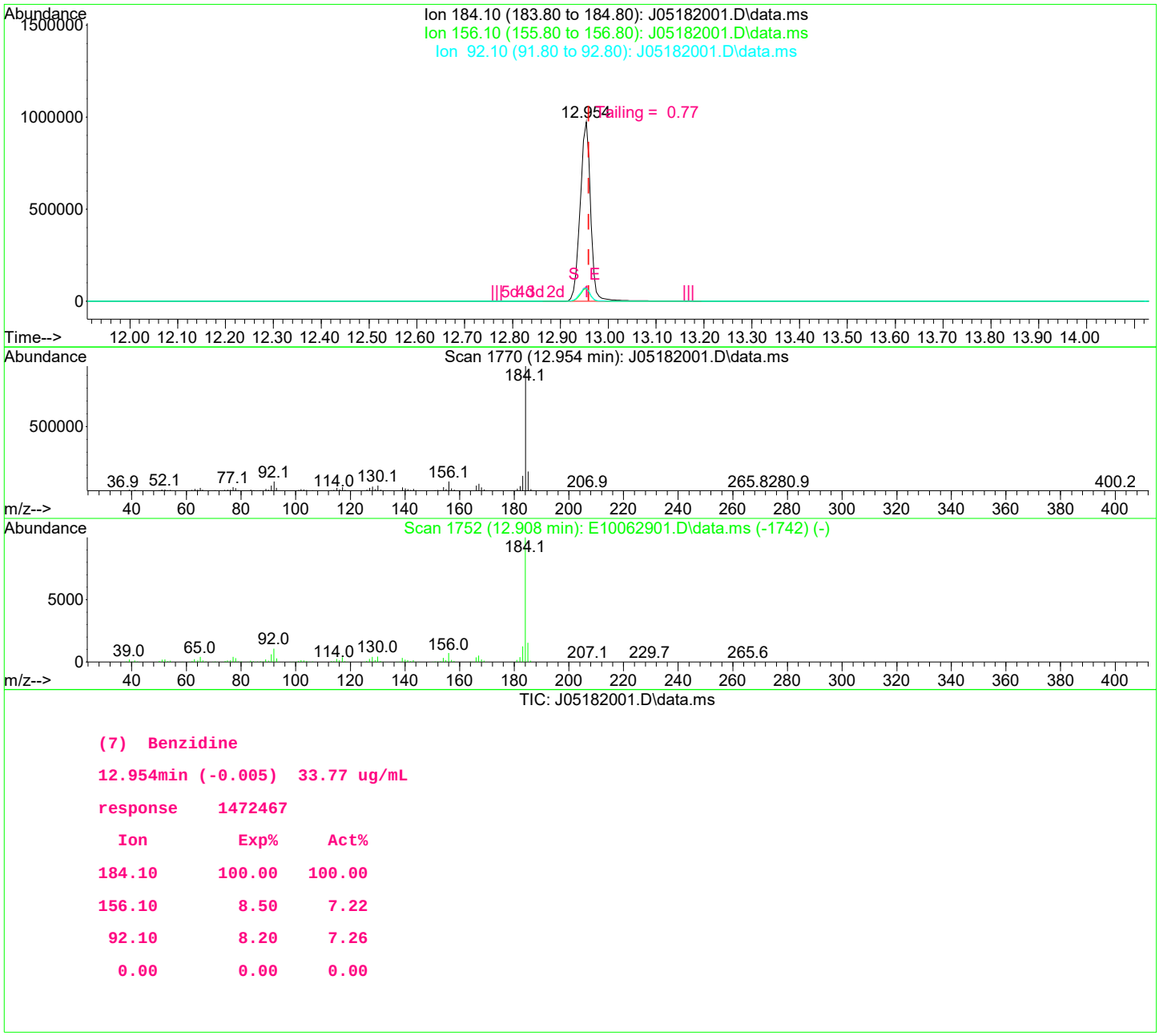
response 369657

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	37.87
201.90	25.80	22.13
129.90	27.30	17.18

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182001.D
Acq On : 18 May 2020 10:32 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 14:54:54 2020
Quant Method : T:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration



TIC: J05182001.D\data.ms

(7) Benzidine

12.954min (-0.005) 33.77 ug/mL

response 1472467

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.22
92.10	8.20	7.26
0.00	0.00	0.00

Evaluate Continuing Calibration Report

AMS 5/18/20

Data Path : T:\data\2020-05\0E18040\
Data File : J05182002.D
Acq On : 18 May 2020 11:00 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 14:56:46 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4 (IST	2000.000	2000.000	0.0	79	0.00
2	TG	N-Nitrosodimethylamine	1000.000	1091.239	-9.1	84	0.00
3	TG	Pyridine	1000.000	1144.684	-14.5	90	0.00
4	S	2-Fluorophenol (Surr)	1000.000	1005.867	-0.6	76	0.00
5	S	Phenol-d6(Surr)	1000.000	1150.202	-15.0	84	0.00
6	T	Phenol	1000.000	1207.248	-20.7#	92	0.00
7	T	Aniline	1000.000	853.185	14.7	67	0.00
8	T	Bis(2-chloroethyl) ether	1000.000	1272.141	-27.2#	92	0.00
9	T	2-Chlorophenol	1000.000	1098.754	-9.9	81	0.00
10	T	1,3-Dichlorobenzene	1000.000	981.174	1.9	77	0.00
11	T	1,4-Dichlorobenzene	1000.000	1019.752	-2.0	80	0.00
12	T	Benzyl alcohol	1000.000	1016.444	-1.6	73	0.00
13	T	1,2-Dichlorobenzene	1000.000	1059.357	-5.9	81	0.00
14	T	2-Methylphenol	1000.000	1185.350	-18.5	85	0.00
15	T	2,2’-Oxybis(1-Chloropropane	1000.000	1154.931	-15.5	87	0.00
16	T	N-Nitrosodi-n-propylamine	1000.000	1229.961	-23.0#	89	0.00
17	T	3+4-Methylphenol	1000.000	1216.110	-21.6#	86	0.00
18	T	Hexachloroethane	1000.000	919.612	8.0	71	0.00
19	S	Nitrobenzene-d5 (Surr)	1000.000	1223.251	-22.3#	88	0.00
20	T	Nitrobenzene	1000.000	1230.131	-23.0#	92	0.00
21	I	Naphthalene-d8 (ISTD)	2000.000	2000.000	0.0	88	0.00
22	T	Isophorone	1000.000	1067.887	-6.8	90	0.00
23	T	2-Nitrophenol	1000.000	1191.952	-19.2	94	0.00
24	T	2,4-Dimethylphenol	1000.000	1098.108	-9.8	87	0.00
25	T	Bis(2-chloroethoxy) methane	1000.000	1065.427	-6.5	90	0.00
26	T	Benzoic acid	2000.000	2211.918	-10.6	117	0.00
27	T	2,4-Dichlorophenol	1000.000	1030.193	-3.0	83	0.00
28	T	1,2,4-Trichlorobenzene	1000.000	1003.481	-0.3	84	0.00
29	T	Naphthalene	1000.000	1024.734	-2.5	86	0.00
30	T	4-Chloroaniline	1000.000	870.531	12.9	67	0.00
31	T	Hexachlorobutadiene	1000.000	957.529	4.2	82	0.00
32	T	4-Chloro-3-methylphenol	1000.000	1002.298	-0.2	82	0.00
33	T	2-Methylnaphthalene	1000.000	1037.294	-3.7	87	0.00

Evaluate Continuing Calibration Report

Data Path : T:\data\2020-05\0E18040\
Data File : J05182002.D
Acq On : 18 May 2020 11:00 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 14:56:46 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
34	T	1-Methylnaphthalene	1000.000	1015.449	-1.5	86	0.00
35	I	Acenaphthene-d10 (ISTD)	2000.000	2000.000	0.0	82	0.00
36	T	Hexachlorocyclopentadiene	1000.000	1044.373	-4.4	81	0.00
37	T	2,4,6-Trichlorophenol	1000.000	1056.603	-5.7	80	0.00
38	T	2,4,5-Trichlorophenol	1000.000	1017.100	-1.7	79	0.00
39	T	1,1'-Biphenyl	1000.000	1074.038	-7.4	83	0.00
40	S	2-Fluorobiphenyl (Surr)	1000.000	1072.555	-7.3	85	0.00
41	T	2-Chloronaphthalene	1000.000	1046.631	-4.7	82	0.00
42	T	2-Nitroaniline	1000.000	1066.759	-6.7	82	0.00
43	T	2,6-Dimethylnaphthalene	1000.000	1062.661	-6.3	83	0.00
44	T	1,4-Dinitrobenzene	1000.000	1020.499	-2.0	81	0.00
45	T	Dimethyl phthalate	1000.000	1015.371	-1.5	79	0.00
46	T	1,3-Dinitrobenzene	1000.000	1056.050	-5.6	84	0.00
47	T	2,6-Dinitrotoluene	1000.000	1038.745	-3.9	82	0.00
48	T	1,2-Dinitrobenzene	1000.000	1028.343	-2.8	79	0.00
49	T	Acenaphthylene	1000.000	1080.174	-8.0	83	0.00
50	T	3-Nitroaniline	1000.000	902.521	9.7	73	0.00
51	T	Acenaphthene	1000.000	1027.569	-2.8	81	0.00
52	T	2,4-Dinitrophenol	1000.000	797.390	20.3#	66	0.00
53	T	4-Nitrophenol	1000.000	871.824	12.8	66	0.00
54	T	2,4-Dinitrotoluene	1000.000	1003.236	-0.3	80	0.00
55	T	Dibenzofuran	1000.000	1037.454	-3.7	81	0.00
56	T	2,3,5,6-Tetrachlorophenol	1000.000	1005.985	-0.6	78	0.00
57	T	2,3,4,6-Tetrachlorophenol	1000.000	950.975	4.9	77	0.00
58	T	Diethyl phthalate	1000.000	1059.223	-5.9	81	0.00
59	T	2,3,5-Trimethylnaphthalene	1000.000	1030.913	-3.1	79	0.00
60	T	Fluorene	1000.000	1050.469	-5.0	81	0.00
61	T	4-Chlorophenyl phenyl ether	1000.000	1016.776	-1.7	82	0.00
62	T	4-Nitroaniline	1000.000	1137.808	-13.8	88	0.00
63	T	4,6-Dinitro-2-methylphenol	1000.000	811.365	18.9	66	0.00
64	I	Phenanthrene-d10 (ISTD)	2000.000	2000.000	0.0	79	0.00
65	T	N-Nitrosodiphenylamine	1000.000	1100.069	-10.0	79	0.00

Data Path : T:\data\2020-05\0E18040\
Data File : J05182002.D
Acq On : 18 May 2020 11:00 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 14:56:46 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
66	T	Azobenzene (1,2-DPH)	1000.000	1096.259	-9.6	80	0.00
67	S	2,4,6-Tribromophenol (Surr)	1000.000	998.830	0.1	75	0.00
68	T	4-Bromophenyl phenyl ether	1000.000	1009.733	-1.0	78	0.00
69	T	Hexachlorobenzene	1000.000	960.309	4.0	76	0.00
70	T	Pentachlorophenol (PCP)	1000.000	981.192	1.9	73	0.00
71	T	Phenanthrene	1000.000	1026.944	-2.7	78	0.00
72	T	Anthracene	1000.000	1071.330	-7.1	79	0.00
73	T	Carbazole	1000.000	983.161	1.7	76	0.00
74	T	Di-n-butyl phthalate	1000.000	1067.186	-6.7	77	0.00
75	T	Fluoranthene	1000.000	1082.644	-8.3	79	0.00
76	T	Benzidine	2000.000	871.296	56.4#	31	0.00
77	T	Pyrene	1000.000	1095.524	-9.6	80	0.00
78	I	Chrysene-d12 (ISTD)	2000.000	2000.000	0.0	80	-0.01
79	S	Terphenyl-d14 (Surr)	1000.000	1064.124	-6.4	80	0.00
80	T	Butyl benzyl phthalate	1000.000	1042.045	-4.2	79	-0.01
81	T	Bis(2-ethylhexyl) adipate	1000.000	955.694	4.4	78	-0.02
82	T	3,3-Dichlorobenzidine	2000.000	2042.057	-2.1	71	0.00
83	T	Benz(a)anthracene	1000.000	1013.930	-1.4	79	-0.01
84	T	Chrysene	1000.000	1010.706	-1.1	79	-0.01
85	T	Bis(2-ethylhexyl) phthalate	1000.000	1016.122	-1.6	80	-0.02
86	I	Perylene-d12 (ISTD)	2000.000	2000.000	0.0	74	-0.01
87	T	Di-n-octyl phthalate	1000.000	999.367	0.1	73	-0.02
88	T	Benzo(b)fluoranthene	1000.000	1031.534	-3.2	73	-0.01
89	T	Benzo(k)fluoranthene	1000.000	1060.440	-6.0	74	-0.01
90	T	Benzo(b+k)fluoranthene	2000.000	2086.640	-4.3	74	-0.01
91	T	Benzo(e)pyrene	1000.000	1092.495	-9.2	74	-0.02
92	T	Benzo(a)pyrene	1000.000	1052.383	-5.2	73	-0.01
93	T	Perylene	1000.000	1052.749	-5.3	76	-0.01
94	I	Dibenz(a,h)Anthrcene-d14 (I	2000.000	2000.000	0.0	72	-0.02
95	T	Indeno(1,2,3-cd)pyrene	1000.000	952.102	4.8	70	-0.01
96	T	Dibenz(a,h)anthracene	1000.000	1034.843	-3.5	73	-0.01

Evaluate Continuing Calibration Report

Data Path : T:\data\2020-05\0E18040\
Data File : J05182002.D
Acq On : 18 May 2020 11:00 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 14:56:46 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
97 T	Benzo(g,h,i)perylene	1000.000	1005.431	-0.5	66	-0.01

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182002.D
Acq On : 18 May 2020 11:00 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 14:56:46 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	141701	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	592157	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	278615	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.387	188	508244	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.393	240	518911	2000.00	ng/ml	-0.01
86) Perylene-d12 (ISTD)	18.918	264	470754	2000.00	ng/ml	-0.01
94) Dibenz(a,h)Anthrcene-d...	21.319	292	391285	2000.00	ng/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	86527	1005.87	ng/ml	0.00
5) Phenol-d6(Surr)	6.439	99	116482	1150.20	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.349	82	97715	1223.25	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	238066	1072.56	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	35919	998.83	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.264	244	268021	1064.12	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.113	74	55607	1091.24	ng/ml	89
3) Pyridine	4.155	79	95494	1144.68	ng/ml	90
6) Phenol	6.450	94	126967	1207.25	ng/ml	87
7) Aniline	6.482	93	90012	853.19	ng/ml	92
8) Bis(2-chloroethyl) ether	6.536	93	118808	1272.14	ng/ml	98
9) 2-Chlorophenol	6.600	128	104802	1098.75	ng/ml	97
10) 1,3-Dichlorobenzene	6.749	146	113646	981.17	ng/ml	96
11) 1,4-Dichlorobenzene	6.819	146	114424	1019.75	ng/ml	96
12) Benzyl alcohol	6.937	108	52023	1016.44	ng/ml	89
13) 1,2-Dichlorobenzene	6.974	146	114437	1059.36	ng/ml	96
14) 2-Methylphenol	7.044	107	81183	1185.35	ng/ml	100
15) 2,2’-Oxybis(1-Chloropr...	7.065	45	84078	1154.93	ng/ml	99
16) N-Nitrosodi-n-propylamine	7.193	70	65322	1229.96	ng/ml	96
17) 3+4-Methylphenol	7.193	107	104388	1216.11	ng/ml	96
18) Hexachloroethane	7.316	201	36877	919.61	ng/ml	94
20) Nitrobenzene	7.370	77	97786	1230.13	ng/ml	94
22) Isophorone	7.605	82	185805	1067.89	ng/ml	98
23) 2-Nitrophenol	7.691	139	66507	1191.95	ng/ml	94
24) 2,4-Dimethylphenol	7.723	122	93058	1098.11	ng/ml	95
25) Bis(2-chloroethoxy) me...	7.814	93	115040	1065.43	ng/ml	98

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182002.D
Acq On : 18 May 2020 11:00 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 14:56:46 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.803	105	66184	2211.92	ng/ml	93
27) 2,4-Dichlorophenol	7.932	162	88024	1030.19	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.017	180	108528	1003.48	ng/ml	96
29) Naphthalene	8.097	128	324148	1024.73	ng/ml	100
30) 4-Chloroaniline	8.151	127	86977	870.53	ng/ml	94
31) Hexachlorobutadiene	8.226	225	63568	957.53	ng/ml	98
32) 4-Chloro-3-methylphenol	8.627	107	74594	1002.30	ng/ml	97
33) 2-Methylnaphthalene	8.798	142	223281	1037.29	ng/ml	97
34) 1-Methylnaphthalene	8.900	142	205157	1015.45	ng/ml	98
36) Hexachlorocyclopentadiene	8.969	237	59469	1044.37	ng/ml	97
37) 2,4,6-Trichlorophenol	9.081	196	60676	1056.60	ng/ml	99
38) 2,4,5-Trichlorophenol	9.119	198	58147	1017.10	ng/ml	99
39) 1,1'-Biphenyl	9.269	154	251601	1074.04	ng/ml	99
41) 2-Chloronaphthalene	9.295	162	190442	1046.63	ng/ml	97
42) 2-Nitroaniline	9.392	138	53905	1066.76	ng/ml	94
43) 2,6-Dimethylnaphthalene	9.429	156	180889	1062.66	ng/ml	98
44) 1,4-Dinitrobenzene	9.515	168	25442	1020.50	ng/ml	97
45) Dimethyl phthalate	9.568	163	203718	1015.37	ng/ml	98
46) 1,3-Dinitrobenzene	9.600	168	31310	1056.05	ng/ml	98
47) 2,6-Dinitrotoluene	9.632	165	47019	1038.74	ng/ml	96
48) 1,2-Dinitrobenzene	9.686	168	21489	1028.34	ng/ml	77
49) Acenaphthylene	9.718	152	291912	1080.17	ng/ml	99
50) 3-Nitroaniline	9.809	138	36877	902.52	ng/ml	98
51) Acenaphthene	9.900	153	187481	1027.57	ng/ml	98
52) 2,4-Dinitrophenol	9.911	184	9074	797.39	ng/ml	94
53) 4-Nitrophenol	9.969	139	25482	871.82	ng/ml	85
54) 2,4-Dinitrotoluene	10.044	165	58256	1003.24	ng/ml	97
55) Dibenzofuran	10.071	168	261755	1037.45	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	10.151	232	47839	1005.98	ng/ml	96
57) 2,3,4,6-Tetrachlorophenol	10.199	232	48295	950.98	ng/ml	96
58) Diethyl phthalate	10.285	149	201178	1059.22	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	160445	1030.91	ng/ml	96
60) Fluorene	10.424	166	204078	1050.47	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.413	204	102933	1016.78	ng/ml	97
62) 4-Nitroaniline	10.429	138	34071	1137.81	ng/ml	89
63) 4,6-Dinitro-2-methylph...	10.461	198	20090	811.37	ng/ml	93
65) N-Nitrosodiphenylamine	10.531	169	169924	1100.07	ng/ml	98
66) Azobenzene (1,2-DPH)	10.574	77	154288	1096.26	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182002.D
Acq On : 18 May 2020 11:00 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 14:56:46 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

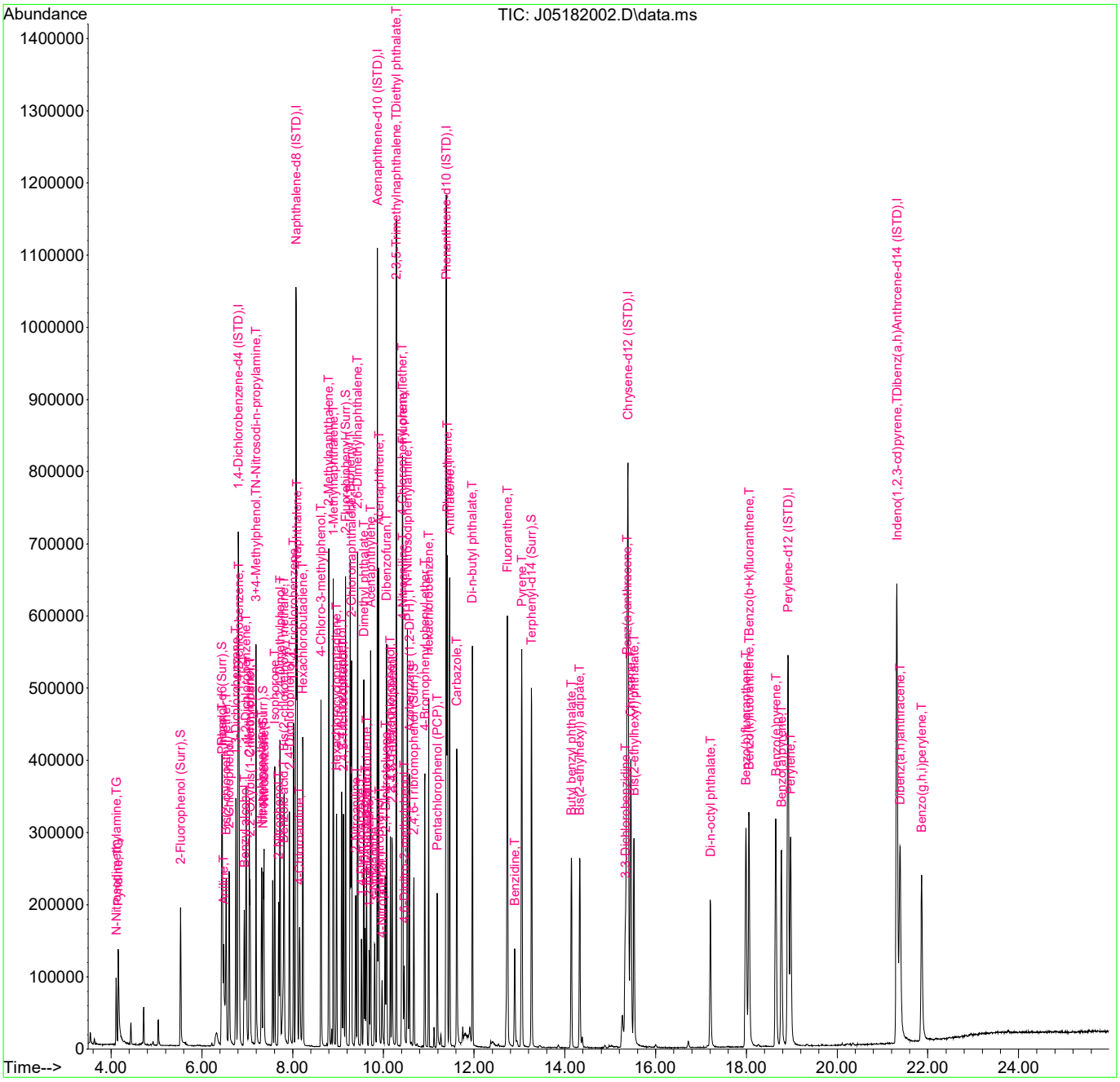
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.916	248	64115	1009.73	ng/ml	96
69) Hexachlorobenzene	10.996	284	78131	960.31	ng/ml	97
70) Pentachlorophenol (PCP)	11.189	266	33275	981.19	ng/ml	97
71) Phenanthrene	11.408	178	293733	1026.94	ng/ml	100
72) Anthracene	11.462	178	294246	1071.33	ng/ml	99
73) Carbazole	11.617	167	226779	983.16	ng/ml	99
74) Di-n-butyl phthalate	11.959	149	305162	1067.19	ng/ml	98
75) Fluoranthene	12.735	202	332338	1082.64	ng/ml	97
76) Benzidine	12.895	184	83789	871.30	ng/ml	99
77) Pyrene	13.050	202	336570	1095.52	ng/ml	100
80) Butyl benzyl phthalate	14.141	149	114725	1042.04	ng/ml	95
81) Bis(2-ethylhexyl) adipate	14.323	129	96191	955.69	ng/ml	99
82) 3,3-Dichlorobenzidine	15.334	252	84682	2042.06	ng/ml	98
83) Benz(a)anthracene	15.366	228	298331	1013.93	ng/ml	99
84) Chrysene	15.452	228	280111	1010.71	ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.527	149	162314	1016.12	ng/ml	99
87) Di-n-octyl phthalate	17.206	149	218661	999.37	ng/ml	98
88) Benzo(b)fluoranthene	17.992	252	263652	1031.53	ng/ml	97
89) Benzo(k)fluoranthene	18.056	252	274484	1060.44	ng/ml	98
90) Benzo(b+k)fluoranthene	18.056	252	556639	2086.64	ng/ml	98
91) Benzo(e)pyrene	18.650	252	257057	1092.49	ng/ml	99
92) Benzo(a)pyrene	18.773	252	224600	1052.38	ng/ml	97
93) Perylene	18.976	252	238743	1052.75	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.319	276	216590	952.10	ng/ml	94
96) Dibenz(a,h)anthracene	21.389	278	218759	1034.84	ng/ml	95
97) Benzo(g,h,i)perylene	21.865	276	216496	1005.43	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182002.D
Acq On : 18 May 2020 11:00 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 14:56:46 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/18/20

Data Path : T:\data\2020-05\0E18040\
Data File : J05182003.D
Acq On : 18 May 2020 11:37 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 14:57:26 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	151127	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	597966	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	274458	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	472478	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.382	240	478389	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.912	264	428534	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	21.314	292	349012	2000.00	ng/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	0.000	112	0	0.00	ng/ml	
5) Phenol-d6(Surr)	0.000	99	0	0.00	ng/ml	
19) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
40) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
67) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
79) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
6) Phenol	0.000		0	N.D.		
7) Aniline	0.000		0	N.D.		
8) Bis(2-chloroethyl) ether	0.000		0	N.D.		
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	0.000		0	N.D.		
12) Benzyl alcohol	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	0.000		0	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	0.000		0	N.D.		
16) N-Nitrosodi-n-propylamine	0.000		0	N.D.		
17) 3+4-Methylphenol	0.000		0	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
22) Isophorone	0.000		0	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.		

Data Path : T:\data\2020-05\0E18040\
Data File : J05182003.D
Acq On : 18 May 2020 11:37 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 14:57:26 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	0.000		0	N.D.		
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	0.000		0	N.D.		
30) 4-Chloroaniline	0.000		0	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	0.000		0	N.D.		
33) 2-Methylnaphthalene	0.000		0	N.D.		
34) 1-Methylnaphthalene	0.000		0	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	0.000		0	N.D.		
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	0.000		0	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	0.000		0	N.D.		
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	0.000		0	N.D.		
50) 3-Nitroaniline	0.000		0	N.D.		
51) Acenaphthene	0.000		0	N.D.		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	0.000		0	N.D.		
54) 2,4-Dinitrotoluene	0.000		0	N.D.		
55) Dibenzofuran	0.000		0	N.D.		
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	0.000		0	N.D.		
59) 2,3,5-Trimethylnaphtha...	0.000		0	N.D.		
60) Fluorene	0.000		0	N.D.		
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	0.000		0	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	0.000		0	N.D.		
66) Azobenzene (1,2-DPH)	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182003.D
Acq On : 18 May 2020 11:37 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 14:57:26 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

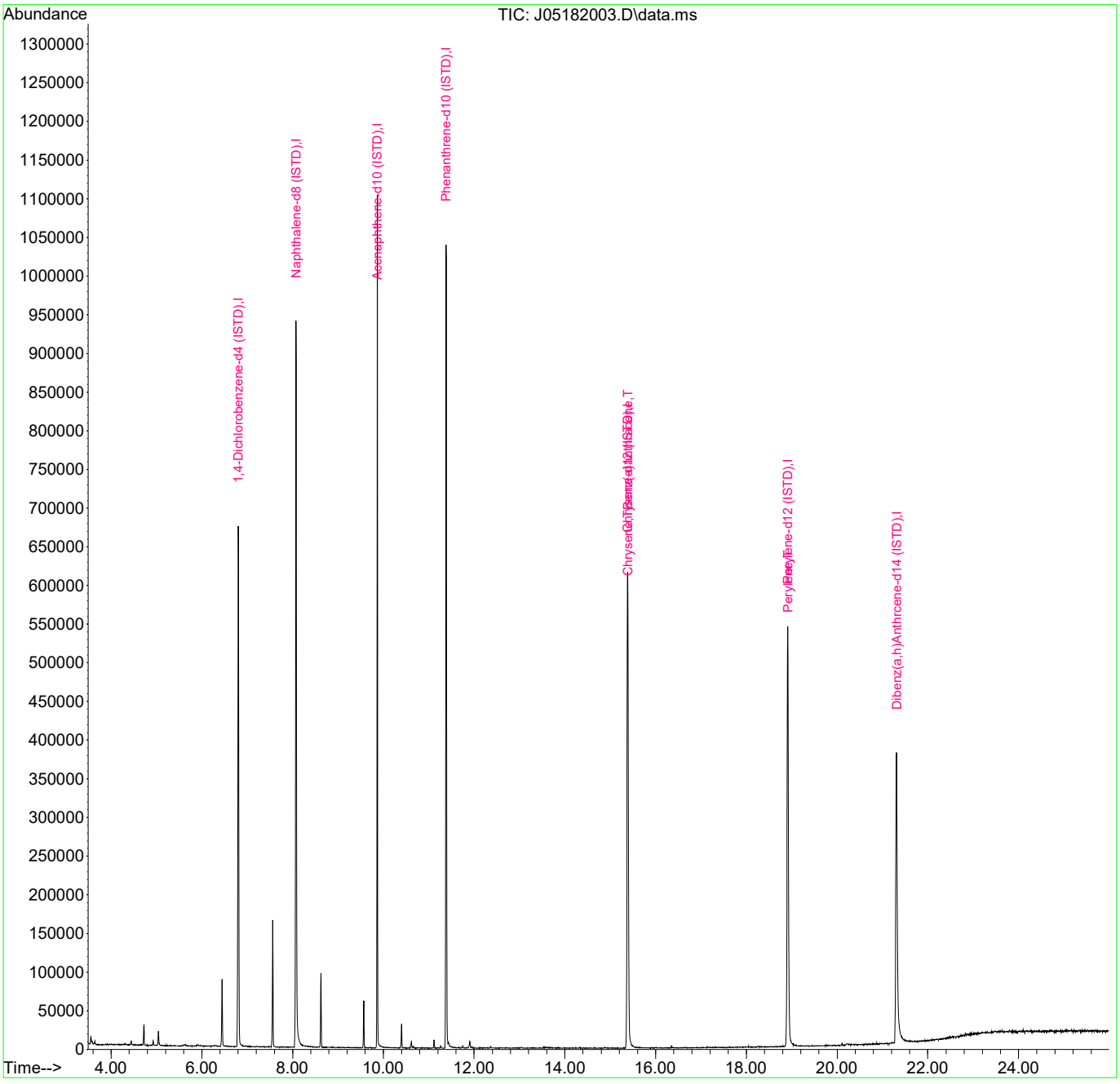
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	0.000		0	N.D.		
71) Phenanthrene	11.392	178	191	N.D.		
72) Anthracene	11.392	178	191	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butyl phthalate	11.905	149	188	N.D.		
75) Fluoranthene	0.000		0	N.D.		
76) Benzidine	0.000		0	N.D.		
77) Pyrene	0.000		0	N.D.		
80) Butyl benzyl phthalate	0.000		0	N.D.		
81) Bis(2-ethylhexyl) adipate	14.328	129	196	N.D.		
82) 3,3-Dichlorobenzidine	0.000		0	N.D.		
83) Benz(a)anthracene	15.393	228	1279	4.72	ng/ml	64
84) Chrysene	15.393	228	1279	5.01	ng/ml	62
85) Bis(2-ethylhexyl) phth...	15.516	149	290	N.D.		
87) Di-n-octyl phthalate	0.000		0	N.D.		
88) Benzo(b)fluoranthene	0.000		0	N.D.		
89) Benzo(k)fluoranthene	0.000		0	N.D.		
90) Benzo(b+k)fluoranthene	0.000		0	N.D.		
91) Benzo(e)pyrene	0.000		0	N.D.		
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.918	252	1488	7.21	ng/ml	68
95) Indeno(1,2,3-cd)pyrene	21.303	276	56	N.D.		
96) Dibenz(a,h)anthracene	0.000		0	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182003.D
Acq On : 18 May 2020 11:37 am
Operator : JK/ AMS/ DTH
Sample : 0E18040-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 14:57:26 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/18/20

Data Path : T:\data\2020-05\0E18040\
Data File : J05182004.D
Acq On : 18 May 2020 12:14 pm
Operator : JK/ AMS/ DTH
Sample : 0050617-BLK2
Misc : 1x, 8270D LL PHENOLS ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 14:57:53 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	154271	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	534385	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	251410	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	459531	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.388	240	457291	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.912	264	407568	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	21.309	292	330903	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	184873	1974.02	ng/ml	0.00
5) Phenol-d6(Surr)	6.439	99	206800	1875.66	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.349	82	173507	1995.08	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	412972	2061.89	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	64651	1945.89	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.264	244	572748	2580.40	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
6) Phenol	6.455	94	252	N.D.		
7) Aniline	6.471	93	60	N.D.		
8) Bis(2-chloroethyl) ether	6.530	93	423	4.16	ng/ml#	43
9) 2-Chlorophenol	6.611	128	67	N.D.		
10) 1,3-Dichlorobenzene	6.755	146	75	N.D.		
11) 1,4-Dichlorobenzene	6.755	146	75	N.D.		
12) Benzyl alcohol	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	6.969	146	76	N.D.		
14) 2-Methylphenol	7.022	107	74	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	0.000		0	N.D.		
16) N-Nitrosodi-n-propylamine	0.000		0	N.D.		
17) 3+4-Methylphenol	7.210	107	78	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	7.349	77	713	8.24	ng/ml#	30
22) Isophorone	7.605	82	191	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	7.766	122	402	5.26	ng/ml#	8
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.		

Data Path : T:\data\2020-05\0E18040\
Data File : J05182004.D
Acq On : 18 May 2020 12:14 pm
Operator : JK/ AMS/ DTH
Sample : 0050617-BLK2
Misc : 1x, 8270D LL PHENOLS ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 14:57:53 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.766	105	607	745.60	ng/ml	92
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	8.012	180	71	N.D.		
29) Naphthalene	8.097	128	1624	5.69	ng/ml	96
30) 4-Chloroaniline	8.103	127	183	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	8.632	107	66	N.D.		
33) 2-Methylnaphthalene	8.798	142	266	N.D.		
34) 1-Methylnaphthalene	8.905	142	233	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	9.274	154	1073	5.08	ng/ml	90
41) 2-Chloronaphthalene	9.301	162	77	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	9.435	156	142	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	9.568	163	349	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	9.622	165	60	N.D.		
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	9.718	152	116	N.D.		
50) 3-Nitroaniline	0.000		0	N.D.		
51) Acenaphthene	9.895	153	331	N.D.		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	0.000		0	N.D.		
54) 2,4-Dinitrotoluene	9.986	165	75	27.72	ng/ml#	32
55) Dibenzofuran	10.076	168	133	N.D.		
56) 2,3,5,6-Tetrachlorophenol	10.194	232	97	37.46	ng/ml#	34
57) 2,3,4,6-Tetrachlorophenol	10.194	232	97	31.24	ng/ml#	25
58) Diethyl phthalate	10.285	149	593	3.46	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.280	170	87	N.D.		
60) Fluorene	10.424	166	211	N.D.		
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	0.000		0	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	0.000		0	N.D.		
66) Azobenzene (1,2-DPH)	10.585	77	197	N.D.		

Data Path : T:\data\2020-05\0E18040\
Data File : J05182004.D
Acq On : 18 May 2020 12:14 pm
Operator : JK/ AMS/ DTH
Sample : 0050617-BLK2
Misc : 1x, 8270D LL PHENOLS ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 14:57:53 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

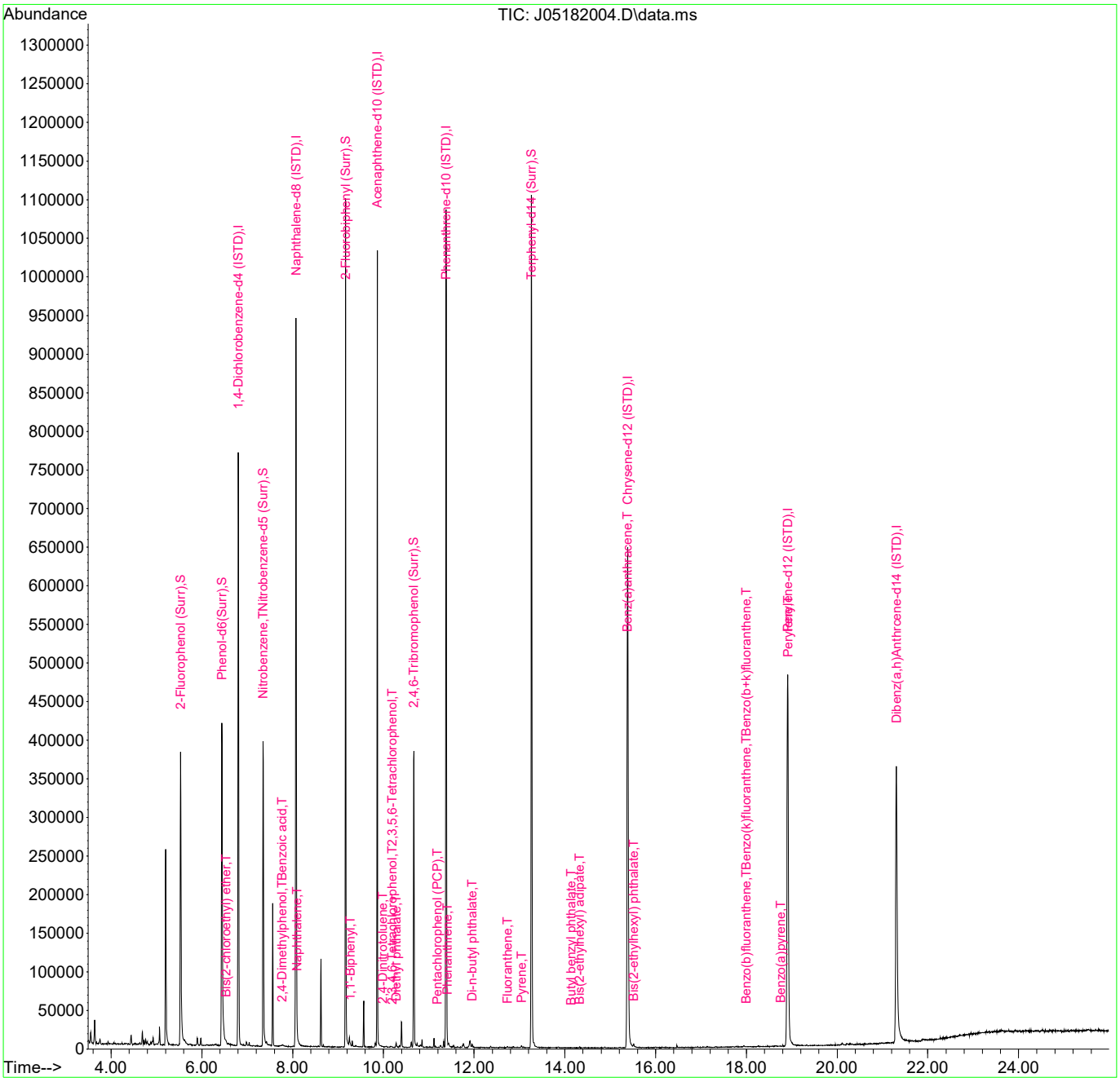
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	11.184	266	94	42.20	ng/ml#	38
71) Phenanthrene	11.408	178	1752	6.77	ng/ml	86
72) Anthracene	11.456	178	446	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butyl phthalate	11.959	149	1372	5.31	ng/ml	100
75) Fluoranthene	12.729	202	711	2.56	ng/ml	87
76) Benzidine	0.000		0	N.D.		
77) Pyrene	13.045	202	864	3.11	ng/ml	88
80) Butyl benzyl phthalate	14.136	149	103	31.41	ng/ml#	32
81) Bis(2-ethylhexyl) adipate	14.323	129	256	2.89	ng/ml	97
82) 3,3-Dichlorobenzidine	0.000		0	N.D.		
83) Benz(a)anthracene	15.377	228	1292	4.98	ng/ml	67
84) Chrysene	15.436	228	252	N.D.		
85) Bis(2-ethylhexyl) phth...	15.516	149	2022	14.36	ng/ml	89
87) Di-n-octyl phthalate	0.000		0	N.D.		
88) Benzo(b)fluoranthene	17.998	252	116	8.69	ng/ml	70
89) Benzo(k)fluoranthene	17.998	252	116	9.64	ng/ml	70
90) Benzo(b+k)fluoranthene	17.998	252	116	16.80	ng/ml	70
91) Benzo(e)pyrene	18.757	252	101	N.D.		
92) Benzo(a)pyrene	18.757	252	101	9.85	ng/ml	60
93) Perylene	18.918	252	1376	7.01	ng/ml	79
95) Indeno(1,2,3-cd)pyrene	21.309	276	226	N.D.		
96) Dibenz(a,h)anthracene	0.000		0	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182004.D
Acq On : 18 May 2020 12:14 pm
Operator : JK/ AMS/ DTH
Sample : 0050617-BLK2
Misc : 1x, 8270D LL PHENOLS ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 14:57:53 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/18/20

Data Path : T:\data\2020-05\0E18040\
Data File : J05182005.D
Acq On : 18 May 2020 12:51 pm
Operator : JK/ AMS/ DTH
Sample : 0050617-BS2@2
Misc : 2x, 8270D LL PHENOLS ONLY
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 18 14:58:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	163735	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	574867	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	277761	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.387	188	477205	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.393	240	454730	2000.00	ng/ml	-0.01
86) Perylene-d12 (ISTD)	18.923	264	448630	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.319	292	392440	2000.00	ng/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.535	112	111797	1124.74	ng/ml	0.01
5) Phenol-d6(Surr)	6.439	99	133181	1138.12	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	103224	1118.32	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	245748	1110.57	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	41568	1223.86	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.270	244	285186	1292.08	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.145	74	105541	1792.43	ng/ml	88
3) Pyridine	4.182	79	164741	1709.00	ng/ml	96
6) Phenol	6.455	94	228901	1883.58	ng/ml	90
7) Aniline	6.482	93	161243	1322.68	ng/ml	94
8) Bis(2-chloroethyl) ether	6.536	93	173554	1608.26	ng/ml	93
9) 2-Chlorophenol	6.605	128	200949	1823.26	ng/ml	100
10) 1,3-Dichlorobenzene	6.755	146	222197	1660.20	ng/ml	97
11) 1,4-Dichlorobenzene	6.824	146	218054	1681.79	ng/ml	99
12) Benzyl alcohol	6.942	108	94687	1577.10	ng/ml	94
13) 1,2-Dichlorobenzene	6.980	146	211496	1694.37	ng/ml	97
14) 2-Methylphenol	7.044	107	141832	1792.20	ng/ml	99
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	145209	1726.23	ng/ml	100
16) N-Nitrosodi-n-propylamine	7.199	70	111190	1811.88	ng/ml	97
17) 3+4-Methylphenol	7.194	107	175901	1773.46	ng/ml	97
18) Hexachloroethane	7.317	201	78454	1693.15	ng/ml	96
20) Nitrobenzene	7.370	77	163148	1776.18	ng/ml	95
22) Isophorone	7.605	82	313557	1856.32	ng/ml	97
23) 2-Nitrophenol	7.691	139	117026	2160.44	ng/ml	90
24) 2,4-Dimethylphenol	7.723	122	140074	1702.62	ng/ml	93
25) Bis(2-chloroethoxy) me...	7.814	93	186912	1783.12	ng/ml	99

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182005.D
Acq On : 18 May 2020 12:51 pm
Operator : JK/ AMS/ DTH
Sample : 0050617-BS2@2
Misc : 2x, 8270D LL PHENOLS ONLY
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 18 14:58:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.825	105	123198	3450.85	ng/ml	97
27) 2,4-Dichlorophenol	7.932	162	151389	1825.08	ng/ml	97
28) 1,2,4-Trichlorobenzene	8.023	180	184191	1754.31	ng/ml	98
29) Naphthalene	8.103	128	530213	1726.58	ng/ml	100
30) 4-Chloroaniline	8.156	127	94552	974.81	ng/ml	95
31) Hexachlorobutadiene	8.231	225	113133	1755.38	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	129382	1790.75	ng/ml	96
33) 2-Methylnaphthalene	8.798	142	366428	1753.51	ng/ml	97
34) 1-Methylnaphthalene	8.900	142	343020	1748.88	ng/ml	97
36) Hexachlorocyclopentadiene	8.969	237	111589	1965.71	ng/ml	99
37) 2,4,6-Trichlorophenol	9.082	196	106704	1846.36	ng/ml	99
38) 2,4,5-Trichlorophenol	9.119	198	103706	1810.08	ng/ml	97
39) 1,1'-Biphenyl	9.269	154	409182	1752.09	ng/ml	100
41) 2-Chloronaphthalene	9.296	162	319723	1762.54	ng/ml	97
42) 2-Nitroaniline	9.392	138	95103	1887.84	ng/ml	89
43) 2,6-Dimethylnaphthalene	9.435	156	302590	1783.08	ng/ml	98
44) 1,4-Dinitrobenzene	9.520	168	45283	1758.07	ng/ml	94
45) Dimethyl phthalate	9.574	163	358651	1793.08	ng/ml	99
46) 1,3-Dinitrobenzene	9.600	168	55866	1890.09	ng/ml	95
47) 2,6-Dinitrotoluene	9.633	165	82157	1820.59	ng/ml	90
48) 1,2-Dinitrobenzene	9.691	168	37417	1796.07	ng/ml	83
49) Acenaphthylene	9.723	152	483929	1796.21	ng/ml	99
50) 3-Nitroaniline	9.809	138	62401	1680.41	ng/ml	94
51) Acenaphthene	9.900	153	314003	1726.32	ng/ml	99
52) 2,4-Dinitrophenol	9.911	184	23563	1650.08	ng/ml	93
53) 4-Nitrophenol	9.970	139	48492	1587.80	ng/ml	85
54) 2,4-Dinitrotoluene	10.044	165	107098	1825.06	ng/ml	94
55) Dibenzofuran	10.071	168	425660	1692.27	ng/ml	96
56) 2,3,5,6-Tetrachlorophenol	10.157	232	85778	1761.12	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.200	232	89904	1750.29	ng/ml	97
58) Diethyl phthalate	10.285	149	330532	1745.64	ng/ml	100
59) 2,3,5-Trimethylnaphtha...	10.285	170	266245	1715.97	ng/ml	97
60) Fluorene	10.424	166	332068	1714.54	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.413	204	166279	1647.56	ng/ml	97
62) 4-Nitroaniline	10.435	138	61100	2046.72	ng/ml	85
63) 4,6-Dinitro-2-methylph...	10.462	198	46322	1660.73	ng/ml	96
65) N-Nitrosodiphenylamine	10.531	169	279842	1929.50	ng/ml	99
66) Azobenzene (1,2-DPH)	10.574	77	253592	1919.04	ng/ml	97

Data Path : T:\data\2020-05\0E18040\
Data File : J05182005.D
Acq On : 18 May 2020 12:51 pm
Operator : JK/ AMS/ DTH
Sample : 0050617-BS2@2
Misc : 2x, 8270D LL PHENOLS ONLY
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 18 14:58:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

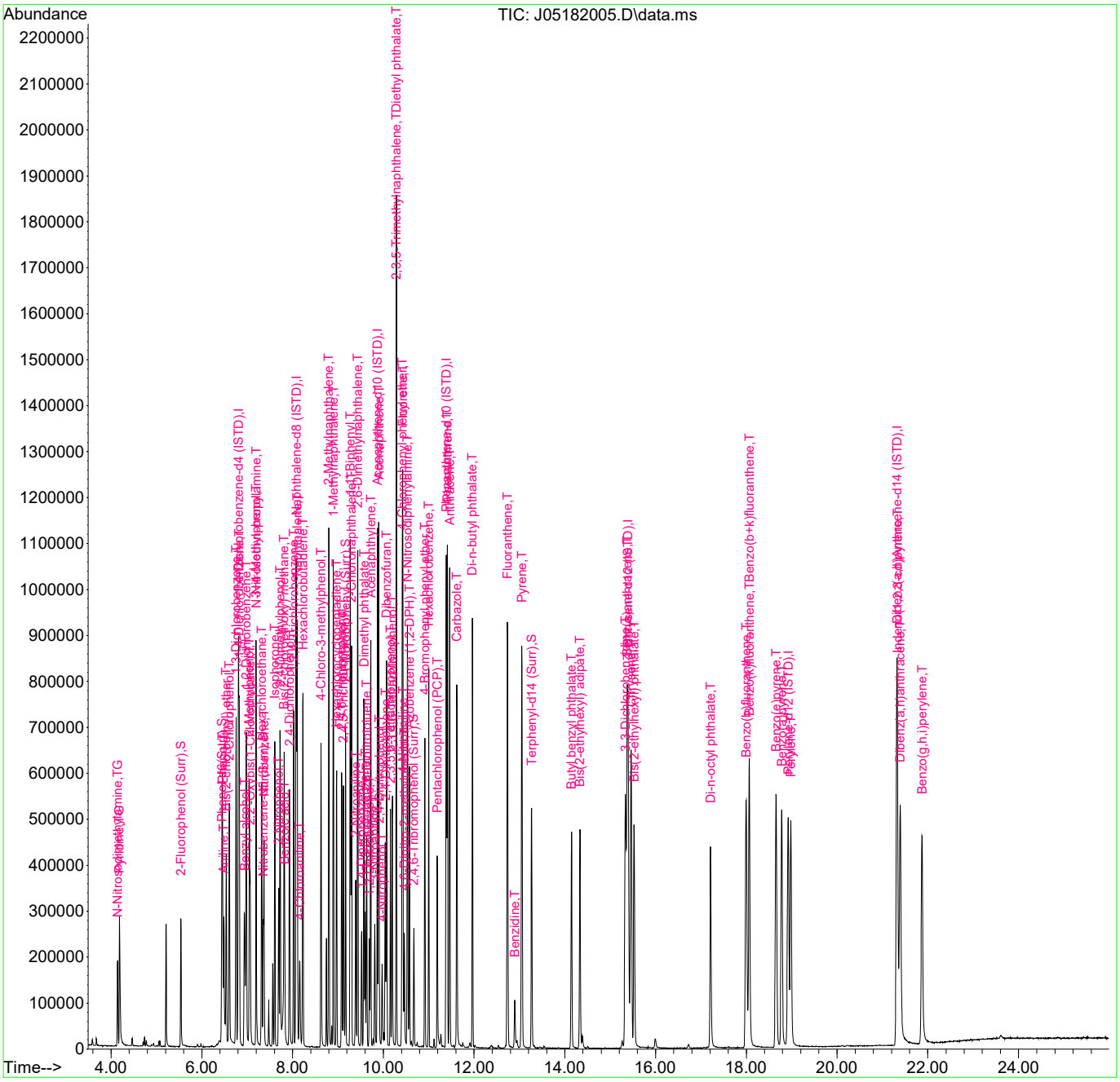
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.916	248	107064	1795.80	ng/ml	98
69) Hexachlorobenzene	10.996	284	136496	1786.79	ng/ml	97
70) Pentachlorophenol (PCP)	11.189	266	63338	1875.07	ng/ml	98
71) Phenanthrene	11.408	178	486086	1809.98	ng/ml	99
72) Anthracene	11.462	178	482513	1871.07	ng/ml	100
73) Carbazole	11.617	167	416550	2433.77	ng/ml	99
74) Di-n-butyl phthalate	11.959	149	524276	1952.71	ng/ml	99
75) Fluoranthene	12.735	202	545046	1891.06	ng/ml	97
76) Benzidine	12.895	184	66150	753.75	ng/ml	98
77) Pyrene	13.050	202	539557	1870.47	ng/ml	99
80) Butyl benzyl phthalate	14.147	149	206907	2045.52	ng/ml	92
81) Bis(2-ethylhexyl) adipate	14.329	129	169835	1925.53	ng/ml	97
82) 3,3-Dichlorobenzidine	15.334	252	265065	8933.56	ng/ml	96
83) Benz(a)anthracene	15.372	228	503217	1951.66	ng/ml	99
84) Chrysene	15.457	228	477903	1967.77	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.527	149	288374	2060.09	ng/ml	99
87) Di-n-octyl phthalate	17.212	149	450152	2006.94	ng/ml	99
88) Benzo(b)fluoranthene	17.998	252	498419	2002.21	ng/ml	95
89) Benzo(k)fluoranthene	18.067	252	512003	2077.34	ng/ml	98
90) Benzo(b+k)fluoranthene	18.067	252	1039067	4056.15	ng/ml	98
91) Benzo(e)pyrene	18.656	252	471338	2101.98	ng/ml	99
92) Benzo(a)pyrene	18.779	252	436847	2107.72	ng/ml	99
93) Perylene	18.982	252	411583	1904.40	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.330	276	423210	1854.90	ng/ml	91
96) Dibenz(a,h)anthracene	21.389	278	423625	1998.07	ng/ml	93
97) Benzo(g,h,i)perylene	21.876	276	427646	1980.19	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182005.D
Acq On : 18 May 2020 12:51 pm
Operator : JK/ AMS/ DTH
Sample : 0050617-BS2@2
Misc : 2x, 8270D LL PHENOLS ONLY
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 18 14:58:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

AMS 5/18/20

B
B02

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	156216	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	592981	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	278641	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	497796	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.388	240	517206	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.907	264	478591	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	21.308	292	402502	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.535	112	215723	2274.75	ng/ml	0.01
5) Phenol-d6(Surr)	6.439	99	155425	1392.14	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	384229	4363.07	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	808349	3641.50	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	158299	4220.79	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.269	244	1116696	4448.23	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	4.241	79	1832m	19.92	ng/ml#	
6) Phenol	6.455	94	1081	9.32	ng/ml#	1
7) Aniline	6.466	93	358	3.08	ng/ml#	1
8) Bis(2-chloroethyl) ether	6.530	93	2066	20.07	ng/ml#	45
9) 2-Chlorophenol	6.616	128	113	N.D.		
10) 1,3-Dichlorobenzene	6.824	146	59	N.D.		
11) 1,4-Dichlorobenzene	6.824	146	59	N.D.		
12) Benzyl alcohol	6.958	108	289	13.81	ng/ml	87
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	7.049	107	133	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	7.086	45	95	N.D.		
16) N-Nitrosodi-n-propylamine	7.193	70	561	9.58	ng/ml#	49
17) 3+4-Methylphenol	7.209	107	219	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	7.349	77	1525	17.40	ng/ml#	25
22) Isophorone	7.600	82	532	3.05	ng/ml	57
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	7.723	122	80	N.D.		
25) Bis(2-chloroethoxy) me...	7.798	93	59	N.D.		

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Benzoic acid	7.760	105	2081	778.76	ng/ml		82
27) 2,4-Dichlorophenol	0.000		0	N.D.			
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.			
29) Naphthalene	8.097	128	6251	19.73	ng/ml		99
30) 4-Chloroaniline	8.097	127	701	7.01	ng/ml#		19
31) Hexachlorobutadiene	0.000		0	N.D.			
32) 4-Chloro-3-methylphenol	8.643	107	53	N.D.			
33) 2-Methylnaphthalene	8.798	142	1552	7.20	ng/ml		90
34) 1-Methylnaphthalene	8.900	142	1428	7.06	ng/ml		93
36) Hexachlorocyclopentadiene	0.000		0	N.D.			
37) 2,4,6-Trichlorophenol	0.000		0	N.D.			
38) 2,4,5-Trichlorophenol	0.000		0	N.D.			
39) 1,1'-Biphenyl	9.269	154	2737	11.68	ng/ml		95
41) 2-Chloronaphthalene	9.349	162	59	N.D.			
42) 2-Nitroaniline	9.311	138	63	N.D.			
43) 2,6-Dimethylnaphthalene	9.445	156	607	3.57	ng/ml		75
44) 1,4-Dinitrobenzene	0.000		0	N.D.			
45) Dimethyl phthalate	9.563	163	176	N.D.			
46) 1,3-Dinitrobenzene	0.000		0	N.D.			
47) 2,6-Dinitrotoluene	9.622	165	173	3.82	ng/ml		92
48) 1,2-Dinitrobenzene	0.000		0	N.D.			
49) Acenaphthylene	9.718	152	3146	11.64	ng/ml	B02	95
50) 3-Nitroaniline	9.793	138	56	26.06	ng/ml#		11
51) Acenaphthene	9.894	153	2338	12.81	ng/ml	B02	95
52) 2,4-Dinitrophenol	0.000		0	N.D.			
53) 4-Nitrophenol	10.023	139	51	43.93	ng/ml#		1
54) 2,4-Dinitrotoluene	10.050	165	55	27.25	ng/ml#		32
55) Dibenzofuran	10.071	168	659	2.61	ng/ml#		67
56) 2,3,5,6-Tetrachlorophenol	10.194	232	52	36.32	ng/ml#		33
57) 2,3,4,6-Tetrachlorophenol	10.194	232	52	30.18	ng/ml#		52
58) Diethyl phthalate	10.285	149	9853	51.87	ng/ml		95
59) 2,3,5-Trimethylnaphtha...	10.274	170	480	3.08	ng/ml#		40
60) Fluorene	10.424	166	2371	12.20	ng/ml	B02	85
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.			
62) 4-Nitroaniline	10.387	138	76	2.54	ng/ml#		30
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.			
65) N-Nitrosodiphenylamine	10.531	169	65	N.D.			
66) Azobenzene (1,2-DPH)	10.558	77	244	N.D.			

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

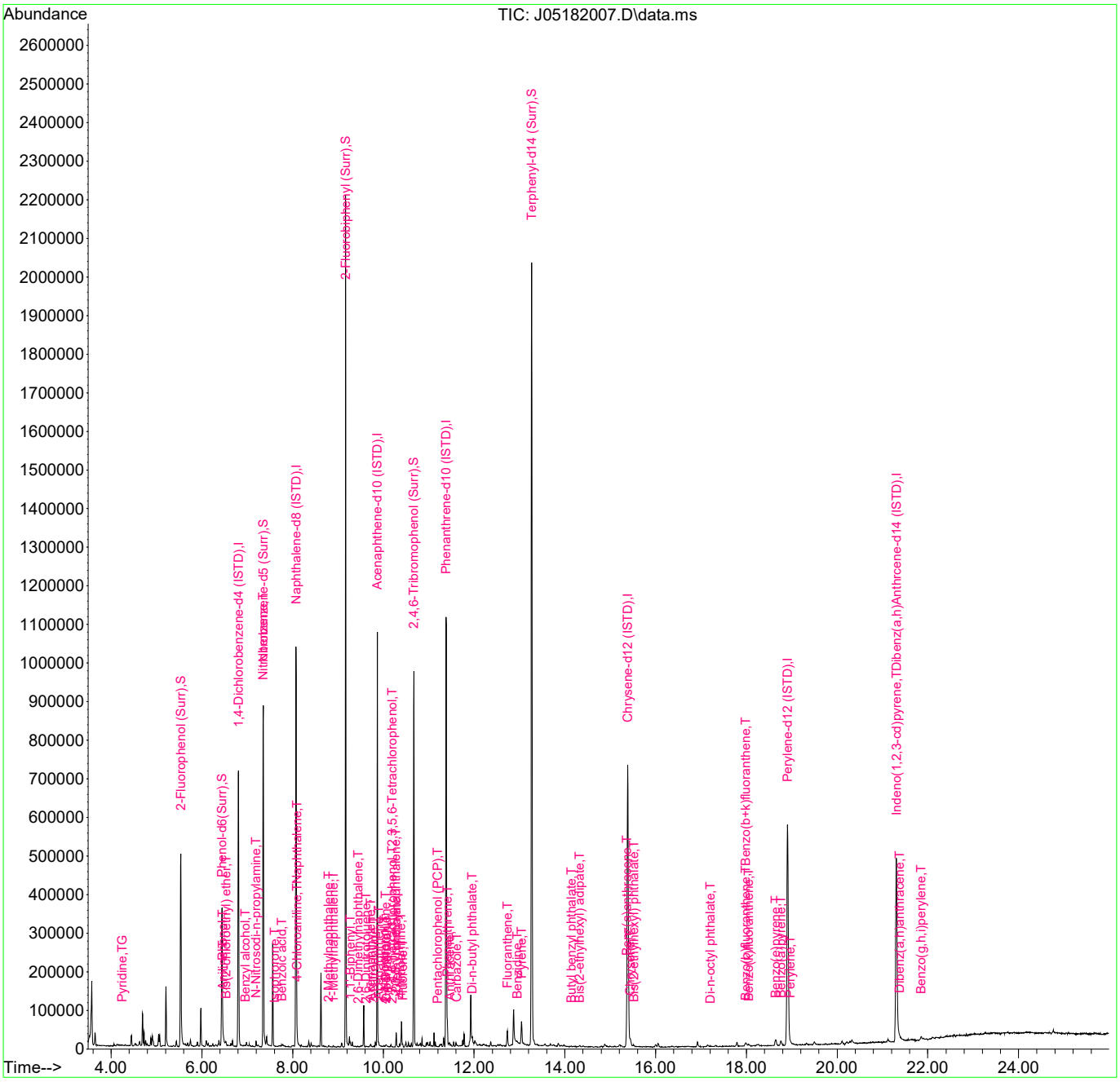
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.			
69) Hexachlorobenzene	0.000		0	N.D.			
70) Pentachlorophenol (PCP)	11.194	266	108	42.39	ng/ml#		40
71) Phenanthrene	11.408	178	26040	92.95	ng/ml	B	96
72) Anthracene	11.462	178	4264	15.85	ng/ml	B02	98
73) Carbazole	11.617	167	1562	12.44	ng/ml		93
74) Di-n-butyl phthalate	11.959	149	5924	21.15	ng/ml		95
75) Fluoranthene	12.735	202	22428	74.60	ng/ml	B	98
76) Benzidine	12.954	184	86	135.61	ng/ml#		1
77) Pyrene	13.045	202	29660	98.57	ng/ml	B	97
80) Butyl benzyl phthalate	14.141	149	470	34.65	ng/ml#		49
81) Bis(2-ethylhexyl) adipate	14.323	129	1259	12.55	ng/ml		81
82) 3,3-Dichlorobenzidine	0.000		0	N.D.			
83) Benz(a)anthracene	15.361	228	9823	33.50	ng/ml	B	88
84) Chrysene	15.441	228	10968	39.71	ng/ml	B	89
85) Bis(2-ethylhexyl) phth...	15.521	149	2204	13.84	ng/ml		95
87) Di-n-octyl phthalate	17.201	149	99	72.49	ng/ml#		1
88) Benzo(b)fluoranthene	17.987	252	10203	47.84	ng/ml	B	92
89) Benzo(k)fluoranthene	18.046	252	2851	19.82	ng/ml	B02	91
90) Benzo(b+k)fluoranthene	17.987	252	13846	67.15	ng/ml		91
91) Benzo(e)pyrene	18.639	252	6838	28.59	ng/ml		93
92) Benzo(a)pyrene	18.762	252	10763	59.15	ng/ml	B	99
93) Perylene	18.971	252	3201	13.88	ng/ml		96
95) Indeno(1,2,3-cd)pyrene	21.308	276	7653	32.70	ng/ml	B	75
96) Dibenz(a,h)anthracene	21.378	278	1025	4.71	ng/ml		87
97) Benzo(g,h,i)perylene	21.849	276	8588	38.77	ng/ml	B	93

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

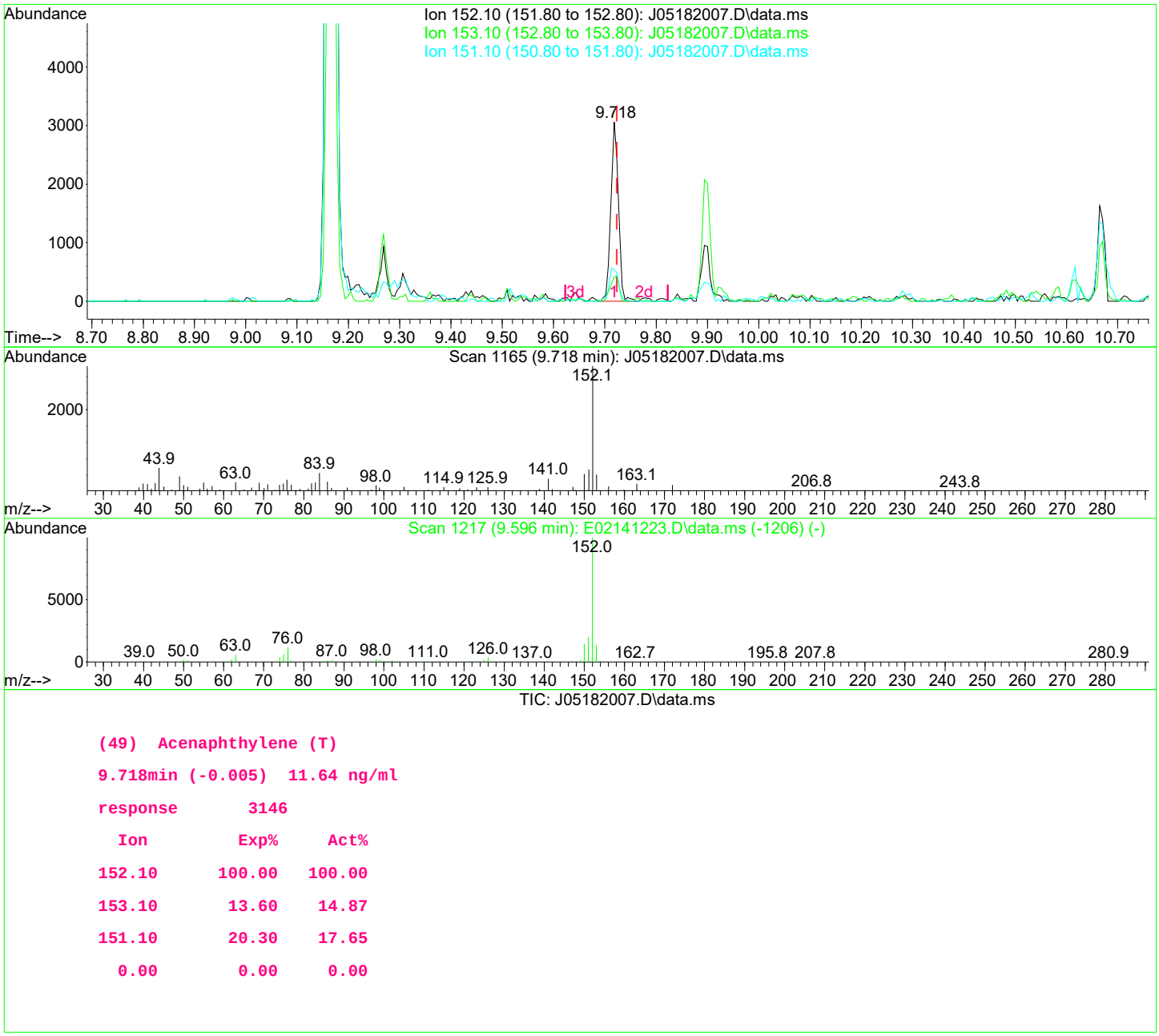
Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
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Response via : Initial Calibration



TIC: J05182007.D\data.ms

(49) Acenaphthylene (T)

9.718min (-0.005) 11.64 ng/ml

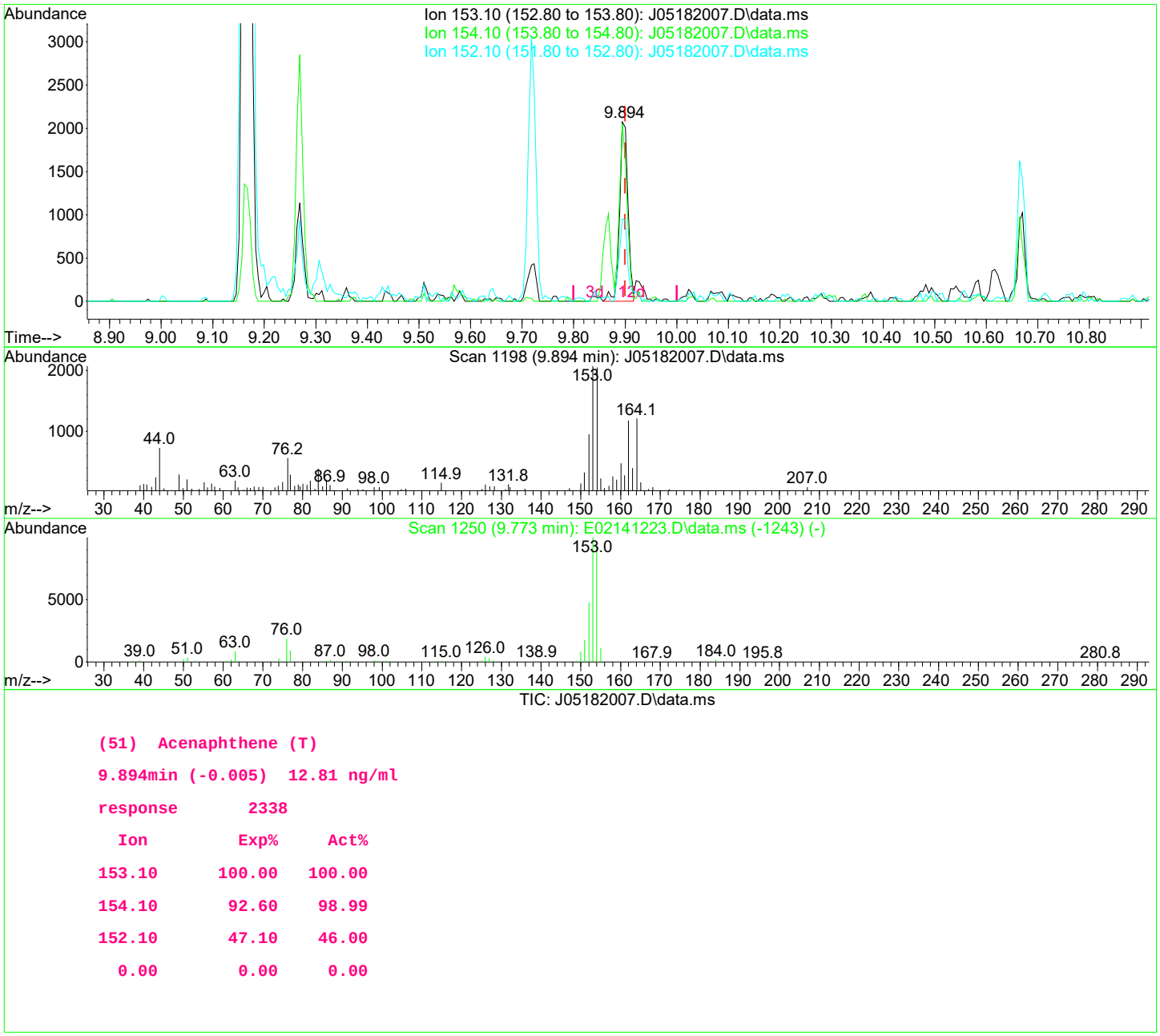
response 3146

Ion	Exp%	Act%
152.10	100.00	100.00
153.10	13.60	14.87
151.10	20.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
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QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182007.D\data.ms

(51) Acenaphthene (T)

9.894min (-0.005) 12.81 ng/ml

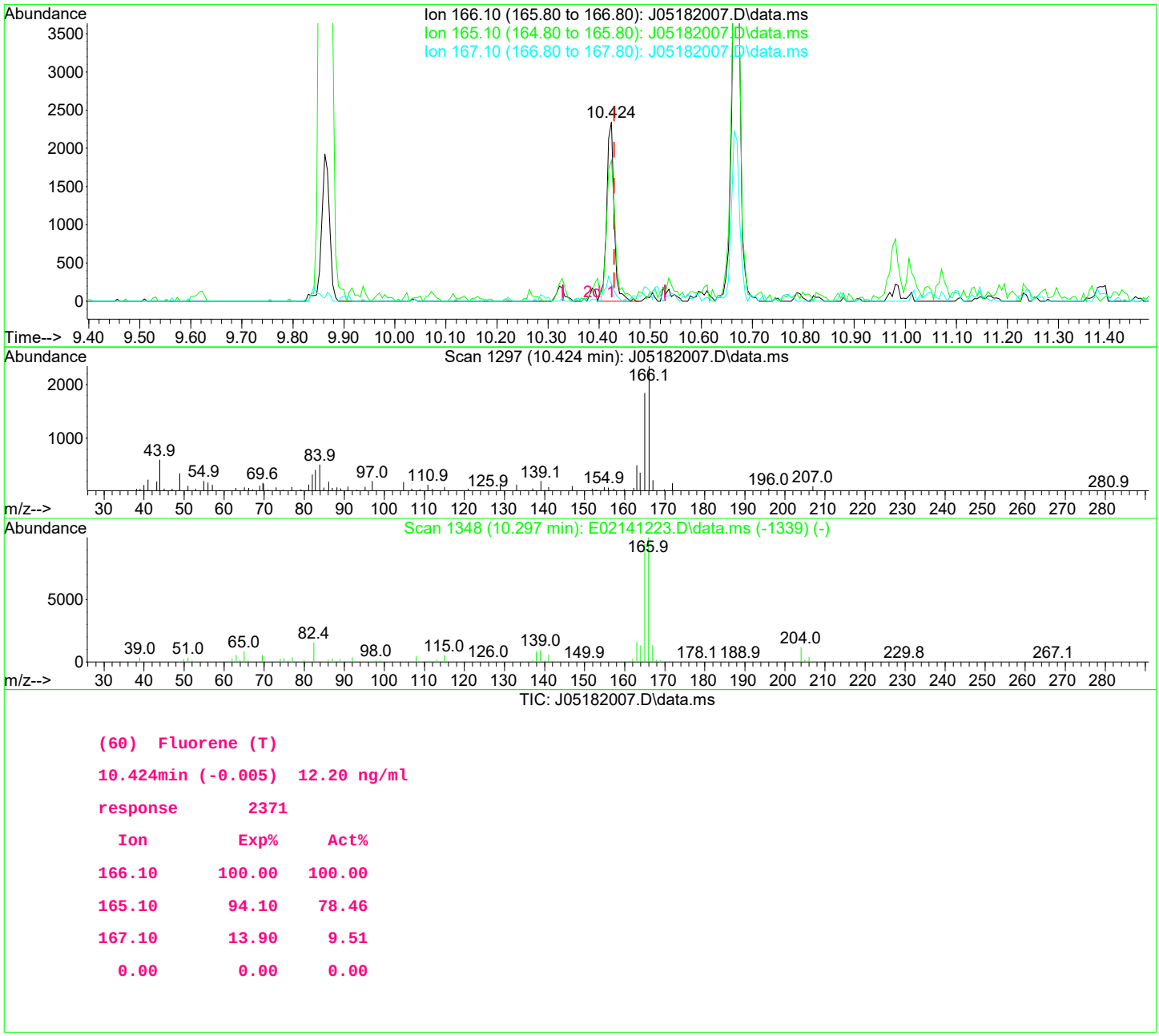
response 2338

Ion	Exp%	Act%
153.10	100.00	100.00
154.10	92.60	98.99
152.10	47.10	46.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
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TIC: J05182007.D\data.ms

(60) Fluorene (T)

10.424min (-0.005) 12.20 ng/ml

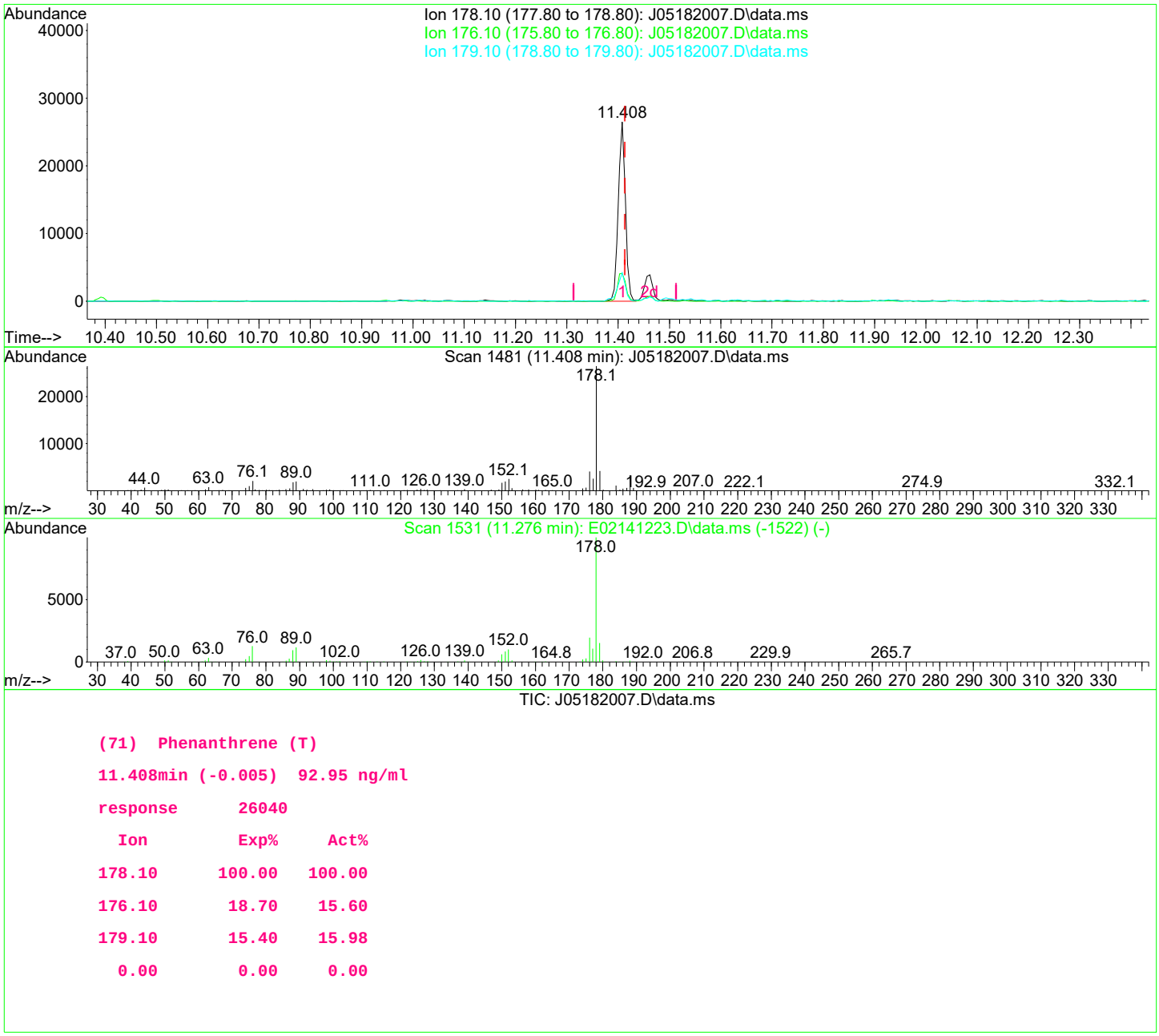
response 2371

Ion	Exp%	Act%
166.10	100.00	100.00
165.10	94.10	78.46
167.10	13.90	9.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182007.D\data.ms

(71) Phenanthrene (T)

11.408min (-0.005) 92.95 ng/ml

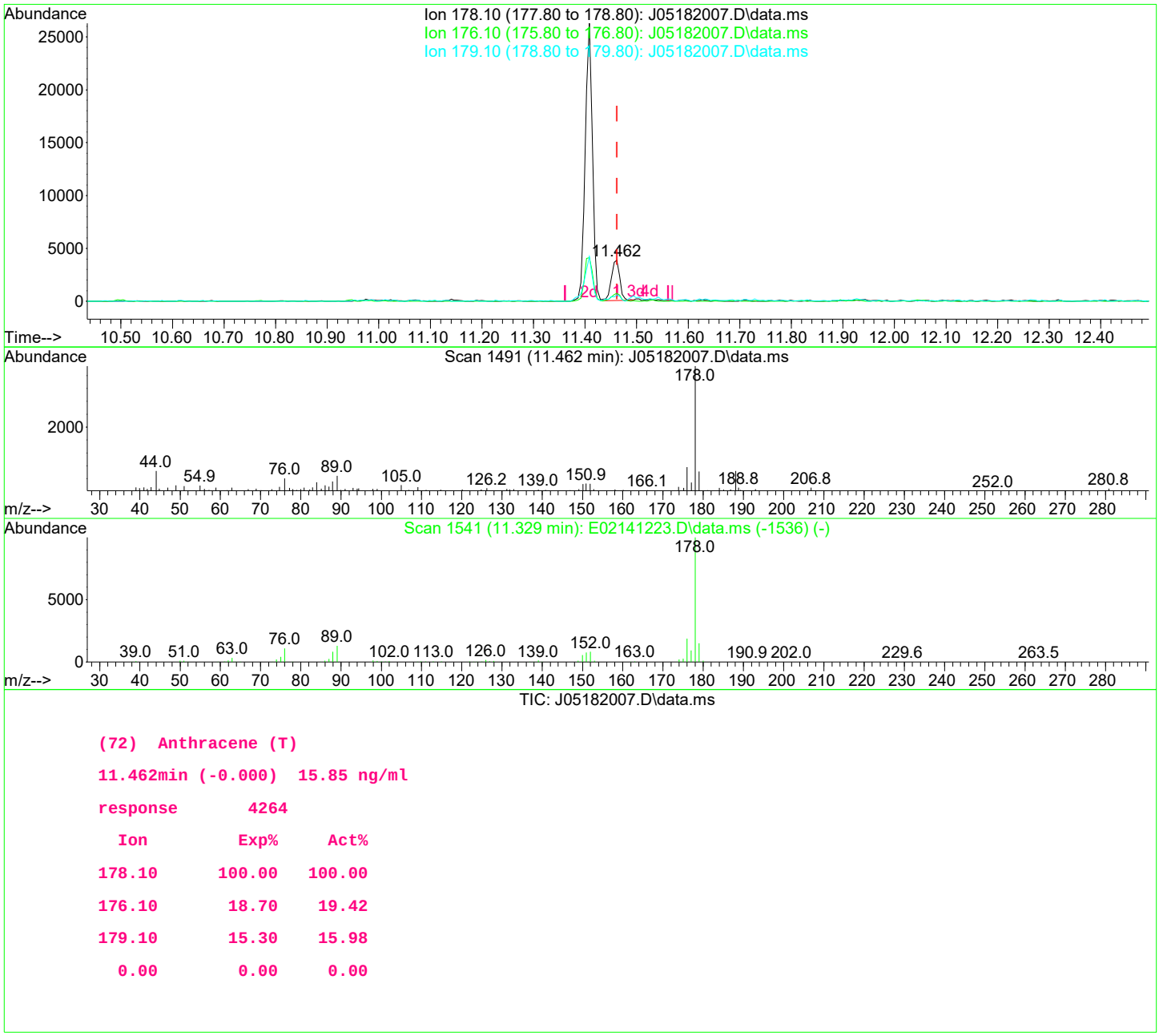
response 26040

Ion	Exp%	Act%
178.10	100.00	100.00
176.10	18.70	15.60
179.10	15.40	15.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
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Response via : Initial Calibration



TIC: J05182007.D\data.ms

(72) Anthracene (T)

11.462min (-0.000) 15.85 ng/ml

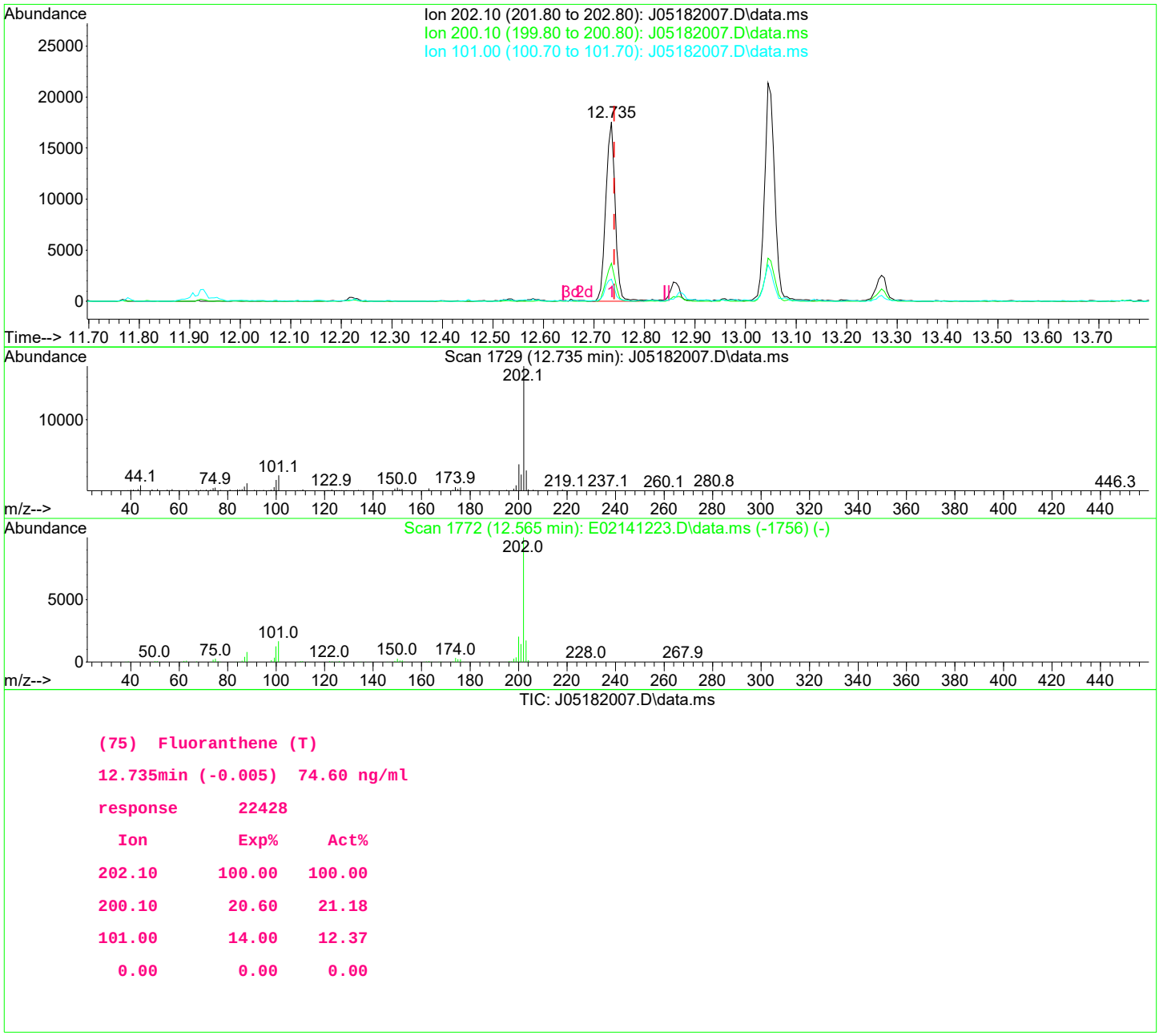
response 4264

Ion	Exp%	Act%
178.10	100.00	100.00
176.10	18.70	19.42
179.10	15.30	15.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
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Response via : Initial Calibration



TIC: J05182007.D\data.ms

(75) Fluoranthene (T)

12.735min (-0.005) 74.60 ng/ml

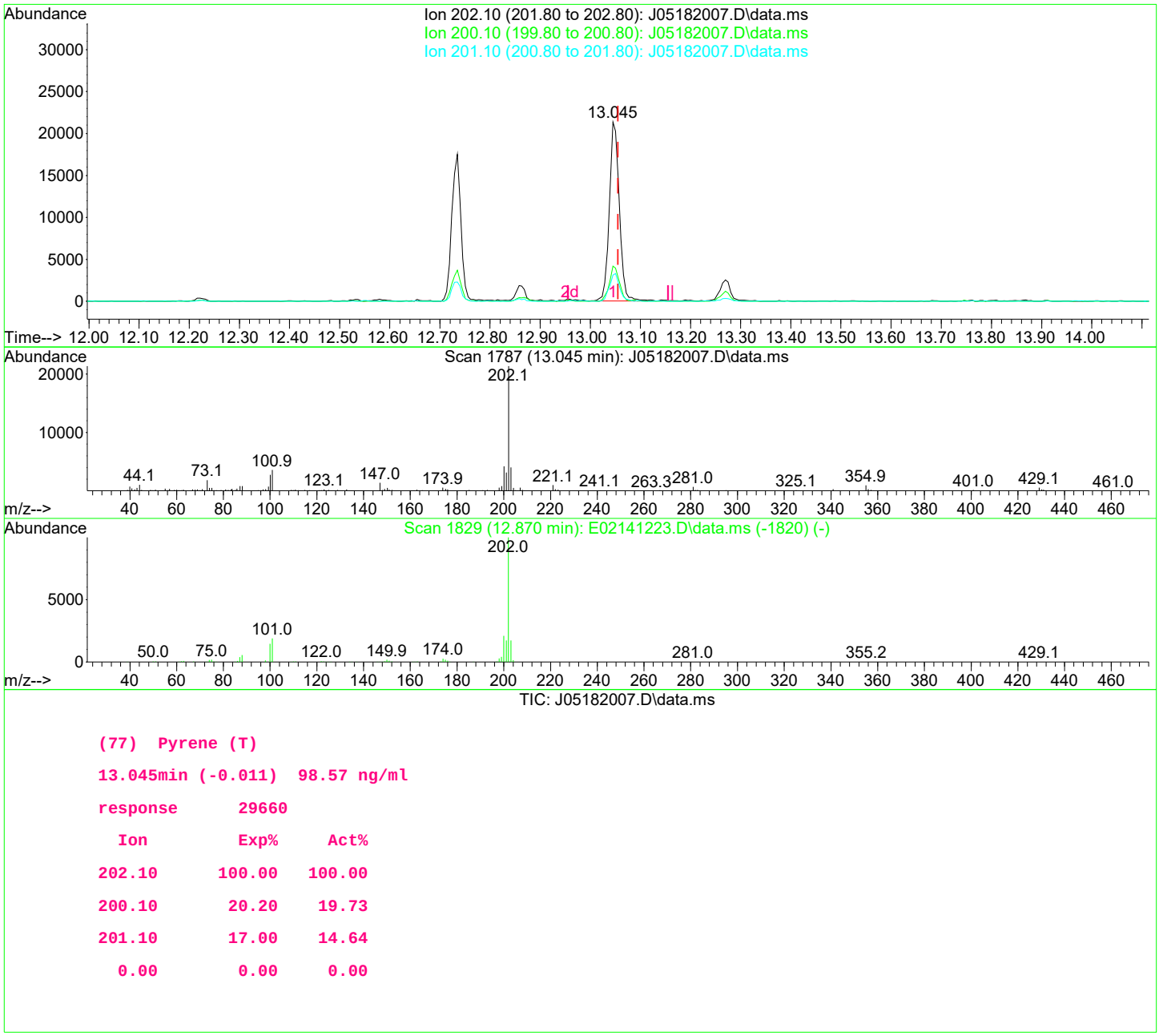
response 22428

Ion	Exp%	Act%
202.10	100.00	100.00
200.10	20.60	21.18
101.00	14.00	12.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
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Response via : Initial Calibration



(77) Pyrene (T)

13.045min (-0.011) 98.57 ng/ml

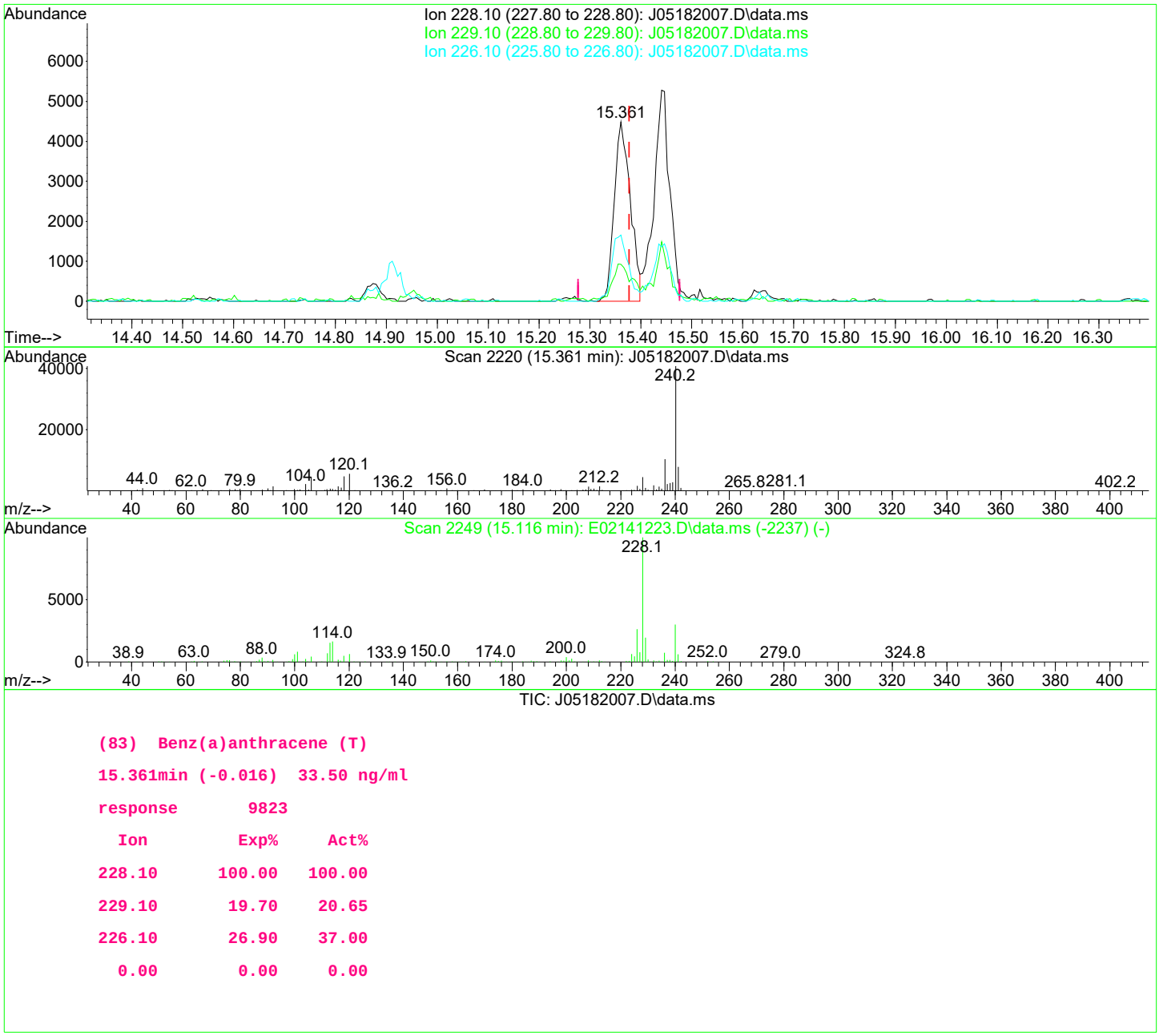
response 29660

Ion	Exp%	Act%
202.10	100.00	100.00
200.10	20.20	19.73
201.10	17.00	14.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
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TIC: J05182007.D\data.ms

(83) Benz(a)anthracene (T)

15.361min (-0.016) 33.50 ng/ml

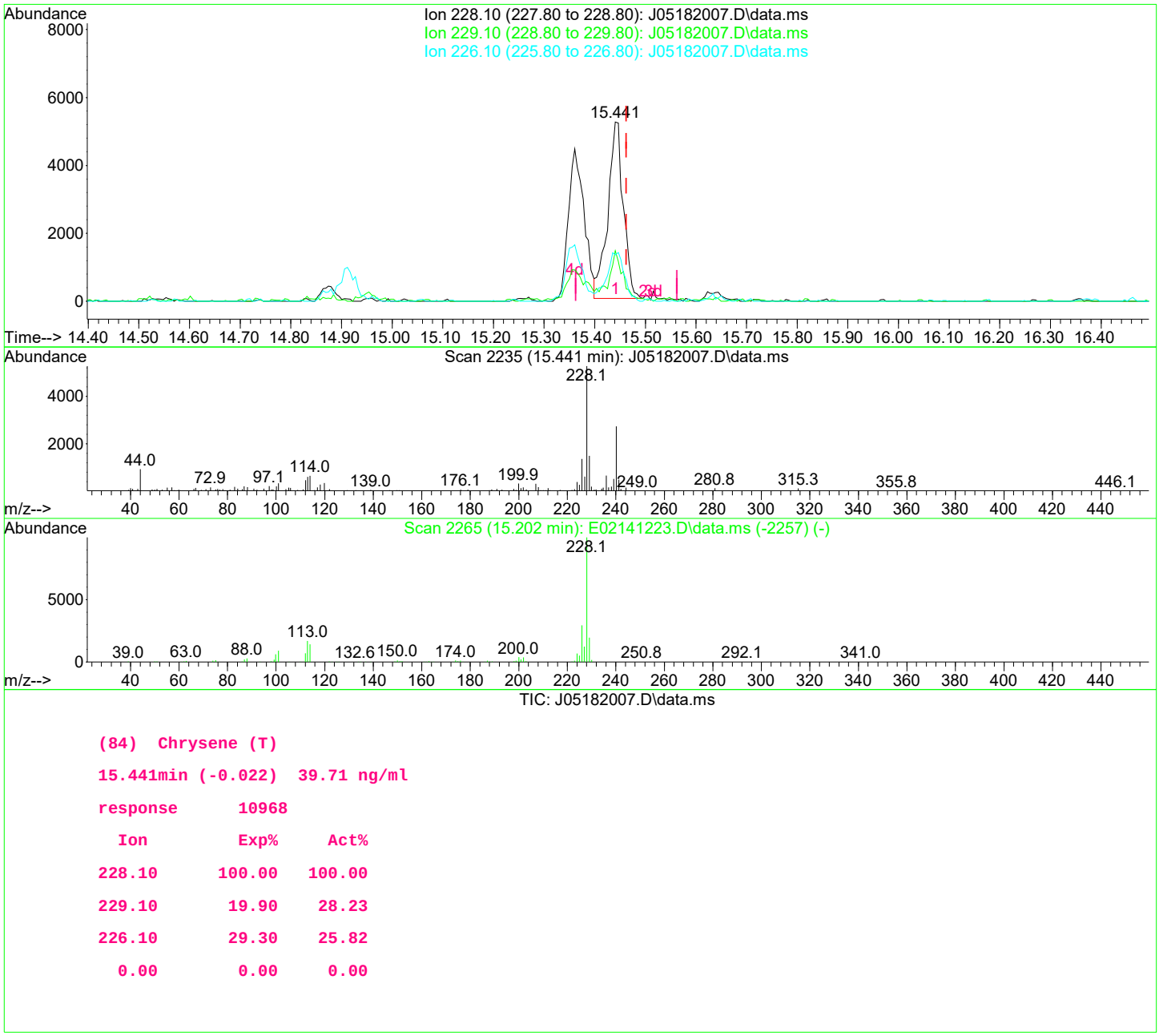
response 9823

Ion	Exp%	Act%
228.10	100.00	100.00
229.10	19.70	20.65
226.10	26.90	37.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
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Response via : Initial Calibration



TIC: J05182007.D\data.ms

(84) Chrysene (T)

15.441min (-0.022) 39.71 ng/ml

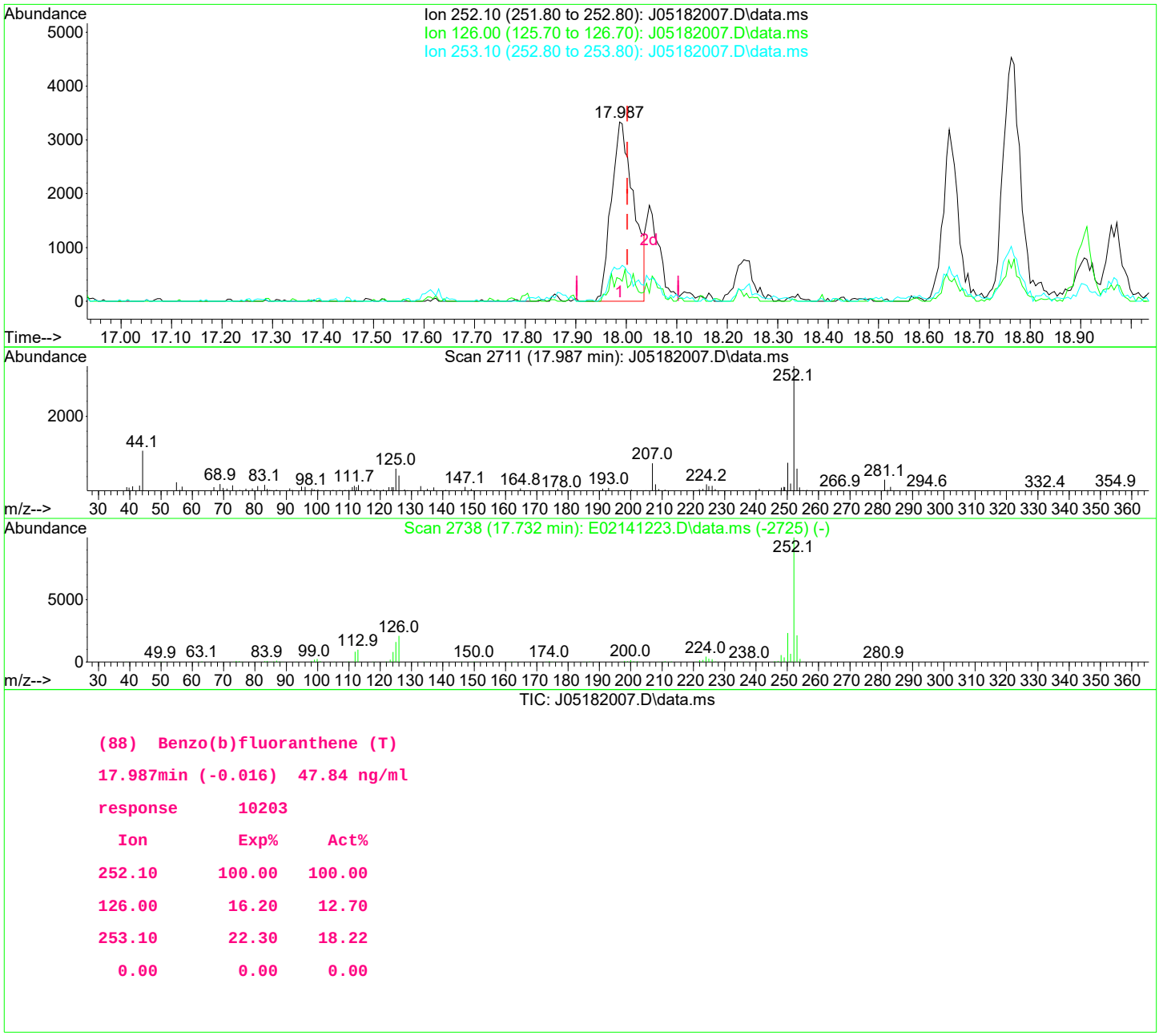
response 10968

Ion	Exp%	Act%
228.10	100.00	100.00
229.10	19.90	28.23
226.10	29.30	25.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

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Response via : Initial Calibration



TIC: J05182007.D\data.ms

(88) Benzo(b)fluoranthene (T)

17.987min (-0.016) 47.84 ng/ml

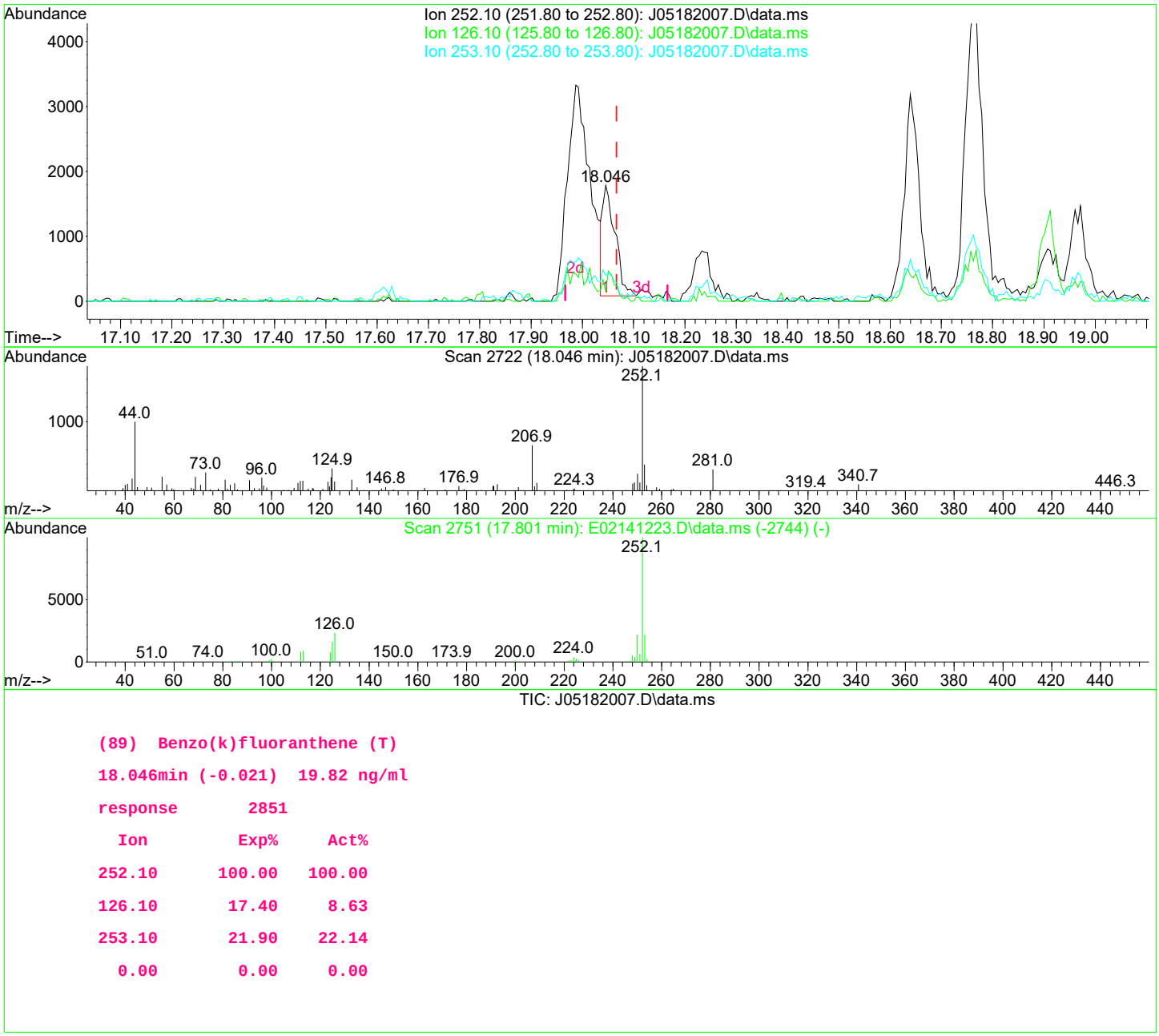
response 10203

Ion	Exp%	Act%
252.10	100.00	100.00
126.00	16.20	12.70
253.10	22.30	18.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
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Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
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QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182007.D\data.ms

(89) Benzo(k)fluoranthene (T)

18.046min (-0.021) 19.82 ng/ml

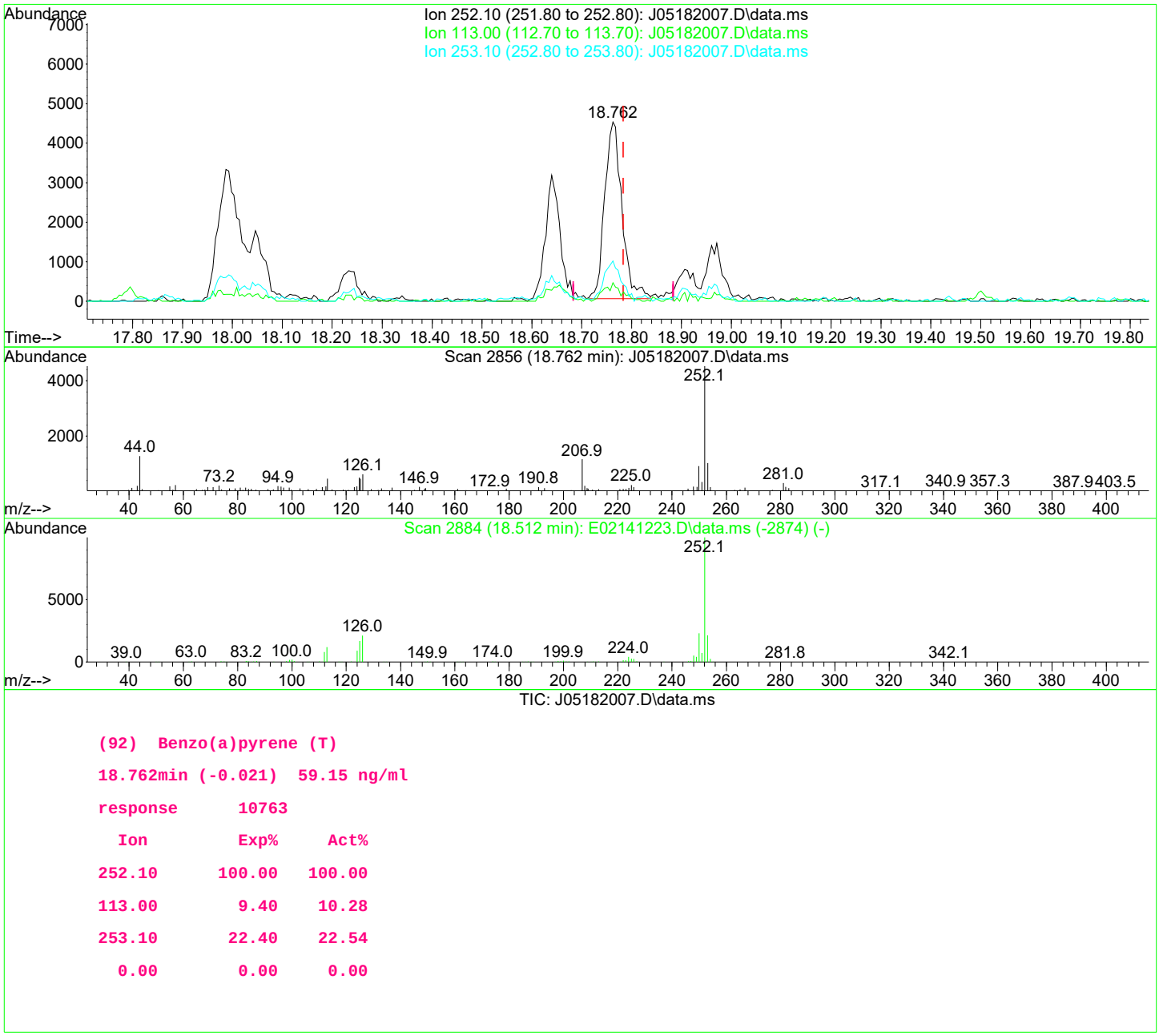
response 2851

Ion	Exp%	Act%
252.10	100.00	100.00
126.10	17.40	8.63
253.10	21.90	22.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182007.D\data.ms

(92) Benzo(a)pyrene (T)

18.762min (-0.021) 59.15 ng/ml

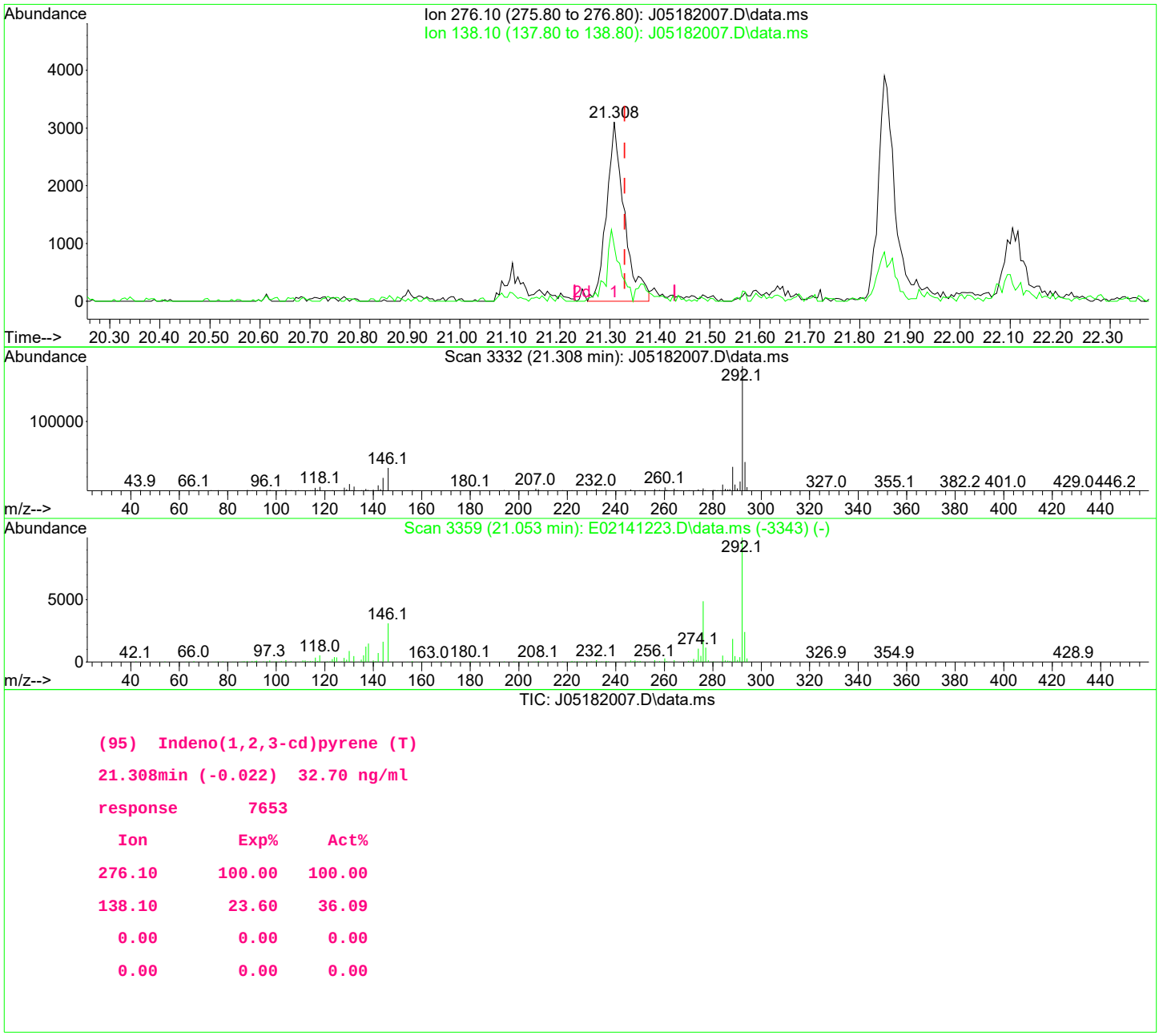
response 10763

Ion	Exp%	Act%
252.10	100.00	100.00
113.00	9.40	10.28
253.10	22.40	22.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182007.D\data.ms

(95) Indeno(1,2,3-cd)pyrene (T)

21.308min (-0.022) 32.70 ng/ml

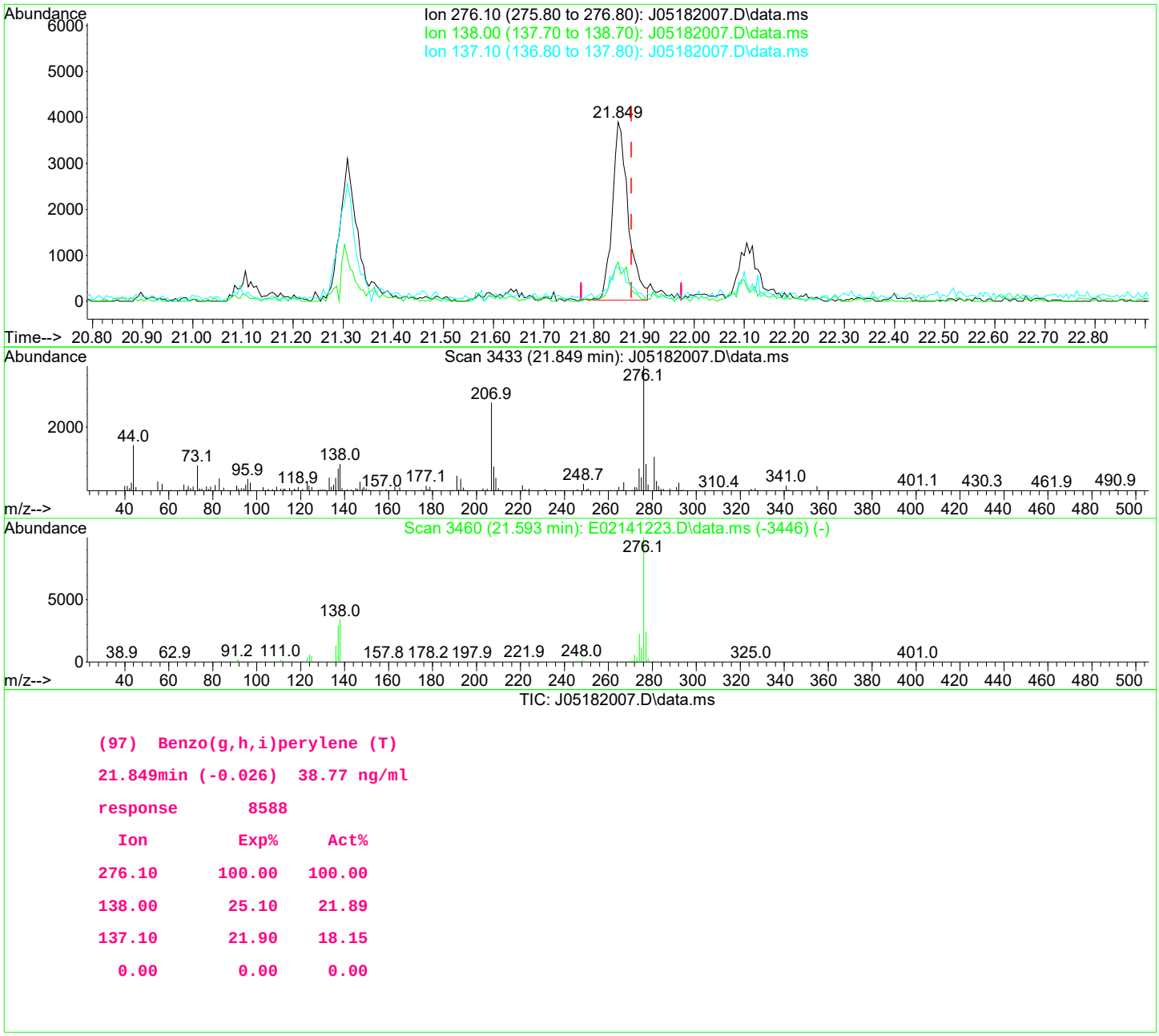
response 7653

Ion	Exp%	Act%
276.10	100.00	100.00
138.10	23.60	36.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182007.D
Acq On : 18 May 2020 2:04 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 15:06:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182007.D\data.ms

(97) Benzo(g,h,i)perylene (T)

21.849min (-0.026) 38.77 ng/ml

response 8588

Ion	Exp%	Act%
276.10	100.00	100.00
138.00	25.10	21.89
137.10	21.90	18.15
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182008.D
Acq On : 18 May 2020 2:41 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BS2@2
Misc : 2x, 8270D LL P/P/P
ALS Vial : 8 Sample Multiplier: 1

AMS 5/18/20

Quant Time: May 18 15:16:02 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	163008	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	575214	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	279810	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.387	188	534643	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.393	240	522171	2000.00	ng/ml	-0.01
86) Perylene-d12 (ISTD)	18.912	264	492566	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	21.314	292	424257	2000.00	ng/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	122704	1239.97	ng/ml	0.00
5) Phenol-d6(Surr)	6.439	99	94493	811.11	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	201580	2193.64	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	466327	2091.96	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	88750	2281.00	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.264	244	609243	2403.78	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.113	74	40500	690.89	ng/ml	88
3) Pyridine	4.129	79	310m	3.23	ng/ml#	
6) Phenol	6.450	94	84290	696.70	ng/ml	88
7) Aniline	6.482	93	762	6.28	ng/ml#	1
8) Bis(2-chloroethyl) ether	6.535	93	170884	1590.58	ng/ml	91
9) 2-Chlorophenol	6.605	128	189227	1724.56	ng/ml	99
10) 1,3-Dichlorobenzene	6.749	146	208486	1564.71	ng/ml	98
11) 1,4-Dichlorobenzene	6.824	146	204435	1583.79	ng/ml	99
12) Benzyl alcohol	6.937	108	59525	1011.16	ng/ml	90
13) 1,2-Dichlorobenzene	6.979	146	199128	1602.40	ng/ml	99
14) 2-Methylphenol	7.044	107	123617	1569.00	ng/ml	100
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	153095	1828.10	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.199	70	118881	1945.84	ng/ml	96
17) 3+4-Methylphenol	7.193	107	137271	1390.16	ng/ml	96
18) Hexachloroethane	7.316	201	72463	1570.83	ng/ml	95
20) Nitrobenzene	7.370	77	166587	1821.71	ng/ml	94
22) Isophorone	7.605	82	335162	1983.03	ng/ml	97
23) 2-Nitrophenol	7.691	139	102353	1888.42	ng/ml	89
24) 2,4-Dimethylphenol	7.723	122	138376	1680.97	ng/ml	95
25) Bis(2-chloroethoxy) me...	7.814	93	195147	1860.56	ng/ml	99

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182008.D
Acq On : 18 May 2020 2:41 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BS2@2
Misc : 2x, 8270D LL P/P/P
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 18 15:16:02 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.803	105	62242	2167.01	ng/ml	96
27) 2,4-Dichlorophenol	7.931	162	156078	1880.47	ng/ml	98
28) 1,2,4-Trichlorobenzene	8.022	180	174130	1657.48	ng/ml	97
29) Naphthalene	8.103	128	527823	1717.76	ng/ml	99
30) 4-Chloroaniline	8.151	127	9546	98.36	ng/ml	93
31) Hexachlorobutadiene	8.226	225	106905	1657.75	ng/ml	98
32) 4-Chloro-3-methylphenol	8.627	107	139025	1923.06	ng/ml	95
33) 2-Methylnaphthalene	8.798	142	369181	1765.62	ng/ml	97
34) 1-Methylnaphthalene	8.900	142	347311	1769.69	ng/ml	98
36) Hexachlorocyclopentadiene	8.969	237	103364	1807.49	ng/ml	99
37) 2,4,6-Trichlorophenol	9.081	196	115434	1980.34	ng/ml	98
38) 2,4,5-Trichlorophenol	9.119	198	111680	1934.05	ng/ml	97
39) 1,1'-Biphenyl	9.269	154	413016	1755.56	ng/ml	99
41) 2-Chloronaphthalene	9.295	162	322671	1765.76	ng/ml	97
42) 2-Nitroaniline	9.392	138	101655	2003.12	ng/ml	84
43) 2,6-Dimethylnaphthalene	9.434	156	306959	1795.58	ng/ml	99
44) 1,4-Dinitrobenzene	9.520	168	50333	1926.98	ng/ml	97
45) Dimethyl phthalate	9.574	163	383718	1904.36	ng/ml	99
46) 1,3-Dinitrobenzene	9.600	168	57169	1920.01	ng/ml	96
47) 2,6-Dinitrotoluene	9.632	165	86037	1892.61	ng/ml	85
48) 1,2-Dinitrobenzene	9.691	168	40093	1910.43	ng/ml	85
49) Acenaphthylene	9.723	152	499177	1839.24	ng/ml	99
50) 3-Nitroaniline	9.809	138	46944	1178.31	ng/ml	94
51) Acenaphthene	9.900	153	326958	1784.38	ng/ml	99
52) 2,4-Dinitrophenol	9.911	184	28954	1924.45	ng/ml	90
53) 4-Nitrophenol	9.969	139	20908	723.47	ng/ml	82
54) 2,4-Dinitrotoluene	10.044	165	114807	1940.01	ng/ml	93
55) Dibenzofuran	10.071	168	450599	1778.30	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	10.151	232	96485	1956.62	ng/ml	96
57) 2,3,4,6-Tetrachlorophenol	10.199	232	98807	1906.85	ng/ml	99
58) Diethyl phthalate	10.285	149	352220	1846.56	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	284553	1820.54	ng/ml	98
60) Fluorene	10.424	166	360114	1845.73	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.413	204	182622	1796.24	ng/ml	96
62) 4-Nitroaniline	10.435	138	65583	2180.80	ng/ml	90
63) 4,6-Dinitro-2-methylph...	10.461	198	52728	1849.85	ng/ml	95
65) N-Nitrosodiphenylamine	10.531	169	313290	1928.06	ng/ml	98
66) Azobenzene (1,2-DPH)	10.574	77	284464	1921.40	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182008.D
Acq On : 18 May 2020 2:41 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BS2@2
Misc : 2x, 8270D LL P/P/P
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 18 15:16:02 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

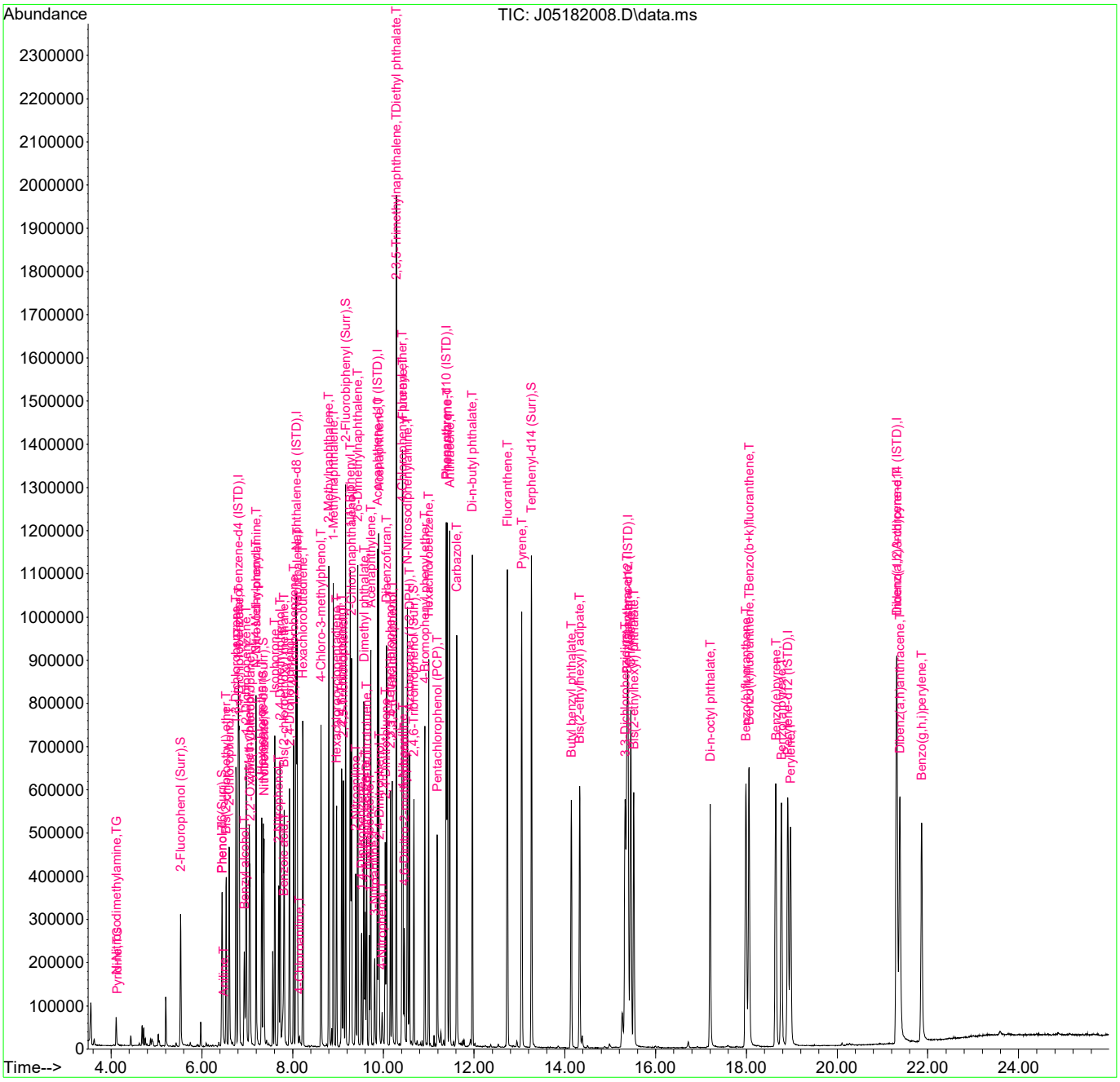
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.916	248	121729	1822.42	ng/ml	99
69) Hexachlorobenzene	10.996	284	145650	1701.79	ng/ml	97
70) Pentachlorophenol (PCP)	11.189	266	74419	1957.67	ng/ml	99
71) Phenanthrene	11.408	178	539476	1792.98	ng/ml	99
72) Anthracene	11.462	178	549002	1900.18	ng/ml	99
73) Carbazole	11.617	167	478145	2546.96	ng/ml	98
74) Di-n-butyl phthalate	11.959	149	618343	2055.64	ng/ml	99
75) Fluoranthene	12.735	202	633303	1961.22	ng/ml	97
76) Benzidine	0.000		0	N.D.		
77) Pyrene	13.050	202	622892	1927.38	ng/ml	99
80) Butyl benzyl phthalate	14.141	149	248284	2130.48	ng/ml	93
81) Bis(2-ethylhexyl) adipate	14.323	129	211835	2091.52	ng/ml	99
82) 3,3-Dichlorobenzidine	15.329	252	274376	7971.88	ng/ml	97
83) Benz(a)anthracene	15.366	228	564443	1906.38	ng/ml	99
84) Chrysene	15.452	228	542941	1946.83	ng/ml	100
85) Bis(2-ethylhexyl) phth...	15.521	149	357079	2221.44	ng/ml	99
87) Di-n-octyl phthalate	17.201	149	568707	2278.23	ng/ml	98
88) Benzo(b)fluoranthene	17.992	252	554931	2029.27	ng/ml	98
89) Benzo(k)fluoranthene	18.062	252	546635	2019.70	ng/ml	97
90) Benzo(b+k)fluoranthene	18.062	252	1133584	4030.70	ng/ml	97
91) Benzo(e)pyrene	18.650	252	520928	2115.91	ng/ml	98
92) Benzo(a)pyrene	18.773	252	472267	2076.39	ng/ml	97
93) Perylene	18.976	252	436072	1837.73	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.319	276	460704	1867.80	ng/ml	94
96) Dibenz(a,h)anthracene	21.383	278	453933	1980.45	ng/ml	92
97) Benzo(g,h,i)perylene	21.865	276	467199	2001.10	ng/ml	95

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182008.D
Acq On : 18 May 2020 2:41 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BS2@2
Misc : 2x, 8270D LL P/P/P
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 18 15:16:02 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182009.D
Acq On : 18 May 2020 3:18 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BSD2@2
Misc : 2x, 8270D LL P/P/P
ALS Vial : 9 Sample Multiplier: 1

AMS 5/19/20

Q19

Quant Time: May 19 08:42:26 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	161300	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	599974	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	293642	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.387	188	558407	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.393	240	536761	2000.00	ng/ml	-0.01
86) Perylene-d12 (ISTD)	18.918	264	507045	2000.00	ng/ml	-0.01
94) Dibenz(a,h)Anthrcene-d...	21.319	292	435719	2000.00	ng/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	117712	1202.12	ng/ml	0.00
5) Phenol-d6(Surr)	6.439	99	91284	791.86	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	200253	2202.28	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	465698	1990.73	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	90108	2219.94	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.270	244	614142	2357.24	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.107	74	37999	655.09	ng/ml	83
3) Pyridine	4.246	79	825m	8.69	ng/ml#	
6) Phenol	6.450	94	81736	682.74	ng/ml	88
7) Aniline	6.482	93	716	5.96	ng/ml#	1
8) Bis(2-chloroethyl) ether	6.536	93	170533	1604.12	ng/ml	93
9) 2-Chlorophenol	6.600	128	185993	1713.03	ng/ml	97
10) 1,3-Dichlorobenzene	6.750	146	199707	1514.69	ng/ml	98
11) 1,4-Dichlorobenzene	6.824	146	200550	1570.14	ng/ml	99
12) Benzyl alcohol	6.937	108	58450	1003.64	ng/ml	90
13) 1,2-Dichlorobenzene	6.974	146	198220	1611.99	ng/ml	97
14) 2-Methylphenol	7.044	107	119379	1531.26	ng/ml	99
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	150843	1820.28	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.199	70	119117	1970.35	ng/ml	98
17) 3+4-Methylphenol	7.194	107	137107	1403.20	ng/ml	96
18) Hexachloroethane	7.317	201	69639	1525.60	ng/ml	96
20) Nitrobenzene	7.370	77	166350	1838.38	ng/ml	94
22) Isophorone	7.605	82	327960	1860.34	ng/ml	97
23) 2-Nitrophenol	7.691	139	104368	1846.13	ng/ml	90
24) 2,4-Dimethylphenol	7.723	122	133508	1554.90	ng/ml	95
25) Bis(2-chloroethoxy) me...	7.814	93	195429	1786.36	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182009.D
Acq On : 18 May 2020 3:18 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BSD2@2
Misc : 2x, 8270D LL P/P/P
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 19 08:42:26 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.803	105	63449	2135.98	ng/ml	94
27) 2,4-Dichlorophenol	7.932	162	156017	1802.16	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.017	180	179779	1640.63	ng/ml	95
29) Naphthalene	8.103	128	532495	1661.45	ng/ml	100
30) 4-Chloroaniline	8.146	127	9219	91.07	ng/ml	89
31) Hexachlorobutadiene	8.231	225	108785	1617.29	ng/ml	98
32) 4-Chloro-3-methylphenol	8.627	107	137152	1818.86	ng/ml	94
33) 2-Methylnaphthalene	8.798	142	365322	1675.06	ng/ml	98
34) 1-Methylnaphthalene	8.900	142	350608	1712.77	ng/ml	98
36) Hexachlorocyclopentadiene	8.969	237	100628	1676.76	ng/ml	98
37) 2,4,6-Trichlorophenol	9.082	196	114823	1878.82	ng/ml	96
38) 2,4,5-Trichlorophenol	9.119	198	110653	1826.75	ng/ml	97
39) 1,1'-Biphenyl	9.269	154	419919	1700.82	ng/ml	99
41) 2-Chloronaphthalene	9.296	162	322170	1679.97	ng/ml	96
42) 2-Nitroaniline	9.392	138	105894	1988.36	ng/ml	89
43) 2,6-Dimethylnaphthalene	9.435	156	311237	1734.84	ng/ml	97
44) 1,4-Dinitrobenzene	9.520	168	52645	1920.99	ng/ml	93
45) Dimethyl phthalate	9.574	163	393083	1858.94	ng/ml	99
46) 1,3-Dinitrobenzene	9.600	168	60658	1941.22	ng/ml	94
47) 2,6-Dinitrotoluene	9.633	165	90079	1888.19	ng/ml	91
48) 1,2-Dinitrobenzene	9.691	168	41034	1863.17	ng/ml	78
49) Acenaphthylene	9.723	152	507101	1780.42	ng/ml	99
50) 3-Nitroaniline	9.809	138	49803	1193.24	ng/ml	94
51) Acenaphthene	9.900	153	331815	1725.58	ng/ml	99
52) 2,4-Dinitrophenol	9.911	184	29167	1864.51	ng/ml	92
53) 4-Nitrophenol	9.969	139	20974	694.09	ng/ml	84
54) 2,4-Dinitrotoluene	10.044	165	116862	1882.70	ng/ml	95
55) Dibenzofuran	10.071	168	463409	1742.71	ng/ml	96
56) 2,3,5,6-Tetrachlorophenol	10.157	232	95962	1858.89	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.199	232	101329	1864.08	ng/ml	99
58) Diethyl phthalate	10.285	149	358579	1791.34	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	286906	1749.13	ng/ml	98
60) Fluorene	10.424	166	369828	1806.23	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.413	204	187112	1753.71	ng/ml	97
62) 4-Nitroaniline	10.435	138	67955	2153.24	ng/ml	88
63) 4,6-Dinitro-2-methylph...	10.462	198	55778	1862.96	ng/ml	96
65) N-Nitrosodiphenylamine	10.531	169	316728	1866.26	ng/ml	99
66) Azobenzene (1,2-DPH)	10.574	77	287902	1861.86	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182009.D
Acq On : 18 May 2020 3:18 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BSD2@2
Misc : 2x, 8270D LL P/P/P
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 19 08:42:26 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

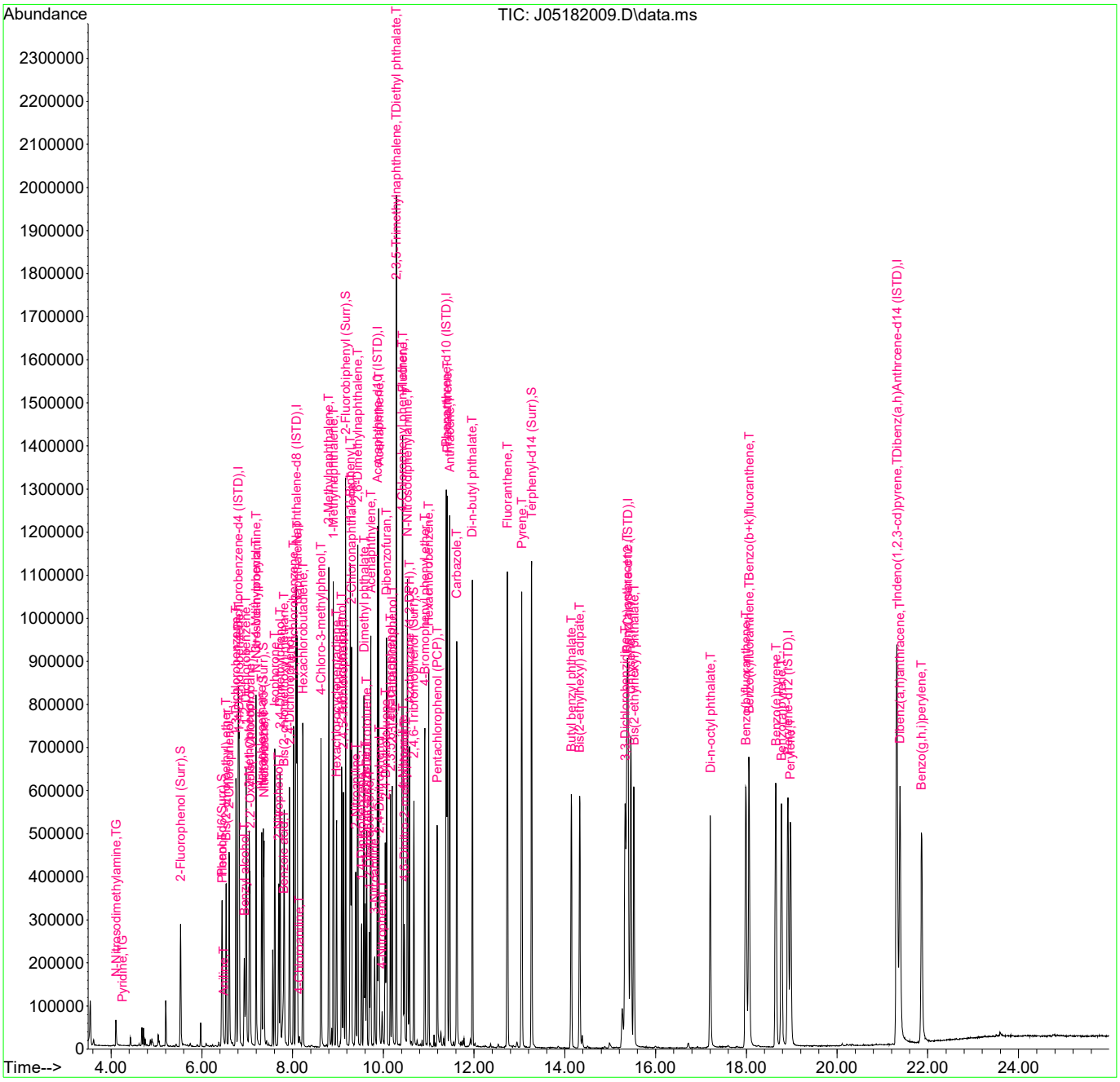
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.916	248	124334	1782.21	ng/ml	98
69) Hexachlorobenzene	10.996	284	148397	1660.10	ng/ml	98
70) Pentachlorophenol (PCP)	11.189	266	76098	1920.48	ng/ml	98
71) Phenanthrene	11.408	178	547234	1741.36	ng/ml	99
72) Anthracene	11.462	178	560573	1857.66	ng/ml	100
73) Carbazole	11.617	167	492286	2478.61	ng/ml	99
74) Di-n-butyl phthalate	11.959	149	624963	1989.23	ng/ml	99
75) Fluoranthene	12.735	202	644075	1909.69	ng/ml	97
76) Benzidine	0.000		0	N.D.		
77) Pyrene	13.050	202	639253	1893.83	ng/ml	99
80) Butyl benzyl phthalate	14.141	149	256313	2138.89	ng/ml	91
81) Bis(2-ethylhexyl) adipate	14.323	129	213090	2046.73	ng/ml	99
82) 3,3-Dichlorobenzidine	15.329	252	277703	7837.04	ng/ml	96
83) Benz(a)anthracene	15.372	228	571879	1879.00	ng/ml	99
84) Chrysene	15.452	228	549189	1915.70	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.527	149	363952	2202.65	ng/ml	99
87) Di-n-octyl phthalate	17.206	149	564796	2205.69	ng/ml	99
88) Benzo(b)fluoranthene	17.992	252	559029	1987.56	ng/ml	98
89) Benzo(k)fluoranthene	18.057	252	561116	2013.97	ng/ml	97
90) Benzo(b+k)fluoranthene	18.057	252	1150685	3975.32	ng/ml	97
91) Benzo(e)pyrene	18.656	252	526651	2078.07	ng/ml	98
92) Benzo(a)pyrene	18.773	252	483832	2066.81	ng/ml	98
93) Perylene	18.971	252	440202	1802.16	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.319	276	468651	1850.04	ng/ml	94
96) Dibenz(a,h)anthracene	21.383	278	460692	1957.07	ng/ml	94
97) Benzo(g,h,i)perylene	21.860	276	469268	1957.09	ng/ml	95

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182009.D
Acq On : 18 May 2020 3:18 pm
Operator : JK/ AMS/ DTH
Sample : 0050624-BSD2@2
Misc : 2x, 8270D LL P/P/P
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 19 08:42:26 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/19/20

Data Path : T:\data\2020-05\0E18040\
Data File : J05182012.D
Acq On : 18 May 2020 5:08 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-01RE1
Misc : 1x, 8270D LL PAH/BEHP
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 19 08:49:55 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	133519	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	637728	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	325786	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	605176	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.382	240	601140	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.907	264	565306	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	21.303	292	469791	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	90405	1115.35	ng/ml	0.00
5) Phenol-d6(Surr)	6.445	99	75922	795.63	ng/ml	0.01
19) Nitrobenzene-d5 (Surr)	7.348	82	210606	2798.05	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	531437	2047.60	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	139331	3115.38	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.269	244	1124828	3855.02	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	4.241	79	263	3.35	ng/ml#	55
6) Phenol	6.461	94	1980	19.98	ng/ml#	50
7) Aniline	6.466	93	117	N.D.		
8) Bis(2-chloroethyl) ether	6.530	93	879	9.99	ng/ml#	38
9) 2-Chlorophenol	6.605	128	125	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	0.000		0	N.D.		
12) Benzyl alcohol	6.947	108	255	13.98	ng/ml#	71
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	7.044	107	95	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	123	N.D.		
16) N-Nitrosodi-n-propylamine	7.183	70	426	8.51	ng/ml#	49
17) 3+4-Methylphenol	7.204	107	269	3.33	ng/ml#	1
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	7.348	77	940	12.55	ng/ml#	24
22) Isophorone	7.584	82	120	N.D.		
23) 2-Nitrophenol	7.696	139	72	N.D.		
24) 2,4-Dimethylphenol	7.728	122	50	N.D.		
25) Bis(2-chloroethoxy) me...	7.798	93	82	N.D.		

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182012.D
Acq On : 18 May 2020 5:08 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-01RE1
Misc : 1x, 8270D LL PAH/BEHP
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 19 08:49:55 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.771	105	2919	793.65	ng/ml	78
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	8.097	128	3602	10.57	ng/ml	99
30) 4-Chloroaniline	8.097	127	474	4.41	ng/ml#	1
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	8.605	107	93	N.D.		
33) 2-Methylnaphthalene	8.798	142	638	2.75	ng/ml	94
34) 1-Methylnaphthalene	8.900	142	465	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	9.269	154	1496	5.46	ng/ml	86
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	9.311	138	79	N.D.		
43) 2,6-Dimethylnaphthalene	9.434	156	257	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	9.563	163	338	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	9.616	165	483	9.13	ng/ml#	45
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	9.729	152	164	N.D.		
50) 3-Nitroaniline	9.782	138	52	25.81	ng/ml#	1
51) Acenaphthene	9.894	153	1448	6.79	ng/ml#	43
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	9.975	139	203	48.04	ng/ml#	6
54) 2,4-Dinitrotoluene	10.039	165	197	29.16	ng/ml#	44
55) Dibenzofuran	10.066	168	178	N.D.		
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	10.280	149	2273	10.23	ng/ml	91
59) 2,3,5-Trimethylnaphtha...	10.189	170	101	N.D.		
60) Fluorene	10.413	166	248	N.D.		
61) 4-Chlorophenyl phenyl ...	10.413	204	55	N.D.		
62) 4-Nitroaniline	0.000		0	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	10.531	169	77	N.D.		
66) Azobenzene (1,2-DPH)	10.584	77	28792	171.81	ng/ml#	1

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182012.D
Acq On : 18 May 2020 5:08 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-01RE1
Misc : 1x, 8270D LL PAH/BEHP
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 19 08:49:55 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

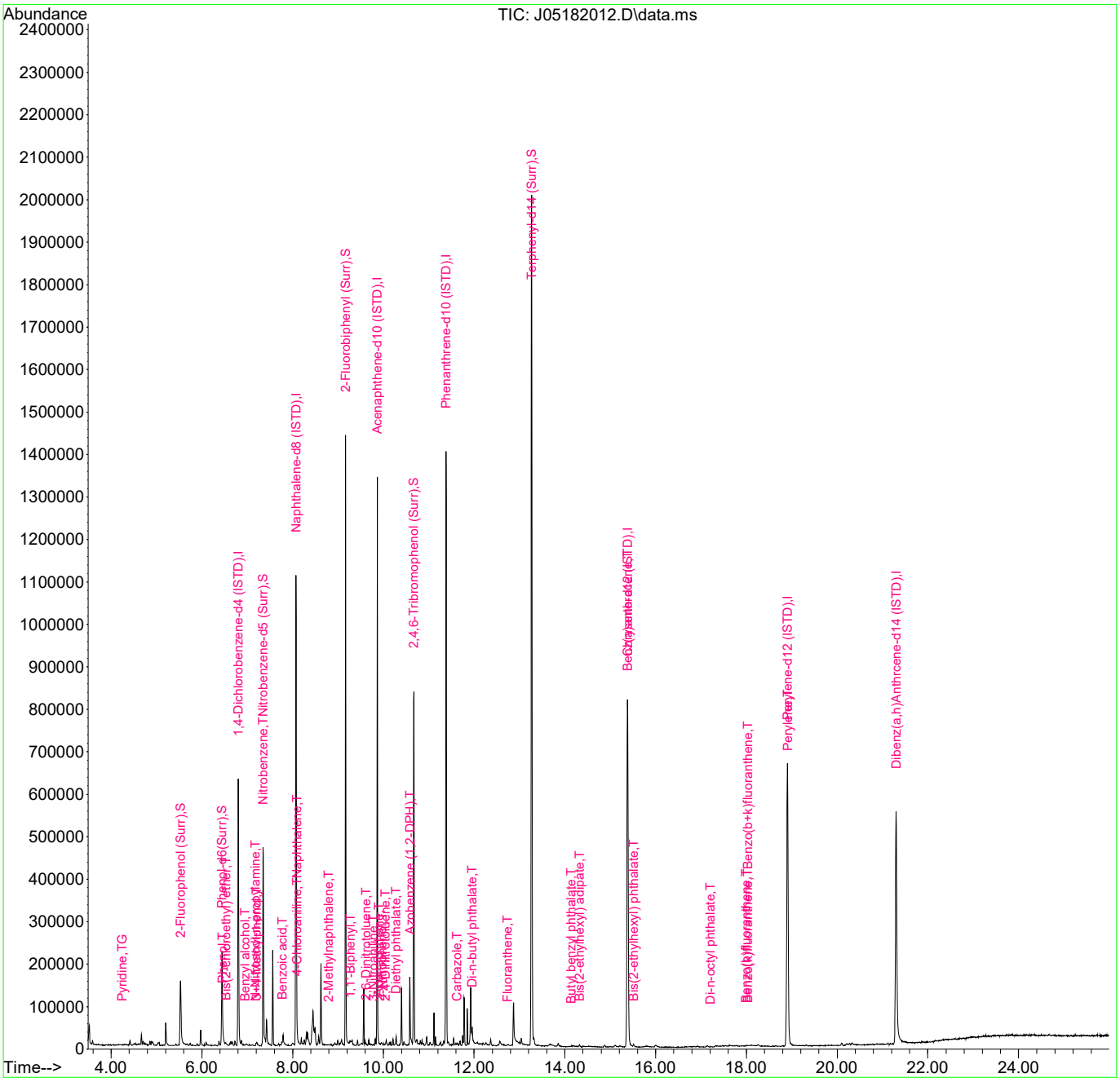
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	0.000		0	N.D.		
71) Phenanthrene	11.408	178	835	N.D.		
72) Anthracene	11.462	178	129	N.D.		
73) Carbazole	11.622	167	121	6.81	ng/ml#	1
74) Di-n-butyl phthalate	11.959	149	10470	30.75	ng/ml	98
75) Fluoranthene	12.735	202	920	2.52	ng/ml	93
76) Benzidine	0.000		0	N.D.		
77) Pyrene	13.045	202	636	N.D.		
80) Butyl benzyl phthalate	14.136	149	540	34.60	ng/ml	87
81) Bis(2-ethylhexyl) adipate	14.323	129	1707	14.64	ng/ml	90
82) 3,3-Dichlorobenzidine	0.000		0	N.D.		
83) Benz(a)anthracene	15.387	228	1704	5.00	ng/ml	53
84) Chrysene	15.436	228	310	N.D.		
85) Bis(2-ethylhexyl) phth...	15.516	149	3196	17.27	ng/ml	93
87) Di-n-octyl phthalate	17.201	149	51	72.25	ng/ml#	1
88) Benzo(b)fluoranthene	17.992	252	83	8.43	ng/ml	57
89) Benzo(k)fluoranthene	18.030	252	64	9.33	ng/ml	57
90) Benzo(b+k)fluoranthene	18.030	252	64	16.50	ng/ml	57
91) Benzo(e)pyrene	18.623	252	64	N.D.		
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.912	252	2013	7.39	ng/ml	69
95) Indeno(1,2,3-cd)pyrene	21.298	276	273	N.D.		
96) Dibenz(a,h)anthracene	21.287	278	58	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182012.D
Acq On : 18 May 2020 5:08 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-01RE1
Misc : 1x, 8270D LL PAH/BEHP
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 19 08:49:55 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

AMS 5/19/20
B02
B07

A-01
Re-extract due to Blank

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	147066	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	635979	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	323566	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.382	188	588044	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.382	240	569739	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.907	264	526928	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	21.303	292	453546	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	86029	963.60	ng/ml	0.00
5) Phenol-d6(Surr)	6.439	99	73069	695.20	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.349	82	186422	2248.60	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	465430	1805.59	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	132490	3052.18	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.264	244	1034484	3740.80	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	4.230	79	708	8.18	ng/ml	73
6) Phenol	6.455	94	3867	35.43	ng/ml	70
7) Aniline	6.466	93	282	2.58	ng/ml#	1
8) Bis(2-chloroethyl) ether	6.530	93	882	9.10	ng/ml#	39
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	0.000		0	N.D.		
12) Benzyl alcohol	6.942	108	261	13.60	ng/ml#	40
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	7.049	107	315	4.43	ng/ml#	36
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	57	N.D.		
16) N-Nitrosodi-n-propylamine	7.188	70	232	4.21	ng/ml#	49
17) 3+4-Methylphenol	7.199	107	382	4.29	ng/ml#	1
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	7.343	77	1050	12.73	ng/ml#	20
22) Isophorone	7.605	82	462	N.D.		
23) 2-Nitrophenol	7.696	139	150	2.50	ng/ml	58
24) 2,4-Dimethylphenol	7.723	122	73	N.D.		
25) Bis(2-chloroethoxy) me...	7.819	93	101	N.D.		

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Benzoic acid	7.771	105	4824	835.51	ng/ml		90
27) 2,4-Dichlorophenol	0.000		0	N.D.			
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.			
29) Naphthalene	8.097	128	14177	41.73	ng/ml		97
30) 4-Chloroaniline	8.097	127	1817	16.93	ng/ml#		15
31) Hexachlorobutadiene	0.000		0	N.D.			
32) 4-Chloro-3-methylphenol	8.638	107	895	11.20	ng/ml#		1
33) 2-Methylnaphthalene	8.798	142	2536	10.97	ng/ml		85
34) 1-Methylnaphthalene	8.900	142	1745	8.04	ng/ml		90
36) Hexachlorocyclopentadiene	0.000		0	N.D.			
37) 2,4,6-Trichlorophenol	0.000		0	N.D.			
38) 2,4,5-Trichlorophenol	0.000		0	N.D.			
39) 1,1'-Biphenyl	9.269	154	2037	7.49	ng/ml		86
41) 2-Chloronaphthalene	9.301	162	133	N.D.			
42) 2-Nitroaniline	9.317	138	194	3.31	ng/ml#		65
43) 2,6-Dimethylnaphthalene	9.440	156	1061	5.37	ng/ml		89
44) 1,4-Dinitrobenzene	9.509	168	63	33.94	ng/ml#		1
45) Dimethyl phthalate	9.563	163	664	2.85	ng/ml#		20
46) 1,3-Dinitrobenzene	9.584	168	93	2.70	ng/ml		57
47) 2,6-Dinitrotoluene	9.616	165	861	16.38	ng/ml		62
48) 1,2-Dinitrobenzene	9.665	168	74	3.05	ng/ml#		1
49) Acenaphthylene	9.718	152	747	N.D.			
50) 3-Nitroaniline	9.804	138	97	26.65	ng/ml#		40
51) Acenaphthene	9.895	153	5110	24.12	ng/ml#	B02	66
52) 2,4-Dinitrophenol	0.000		0	N.D.			
53) 4-Nitrophenol	9.964	139	911	68.48	ng/ml		74
54) 2,4-Dinitrotoluene	10.039	165	282	30.41	ng/ml		71
55) Dibenzofuran	10.071	168	737	2.52	ng/ml#		16
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.			
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.			
58) Diethyl phthalate	10.280	149	5782	26.21	ng/ml		97
59) 2,3,5-Trimethylnaphtha...	10.280	170	629	3.48	ng/ml#		1
60) Fluorene	10.419	166	1955	8.67	ng/ml		86
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.			
62) 4-Nitroaniline	10.419	138	152	4.37	ng/ml#		1
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.			
65) N-Nitrosodiphenylamine	10.531	169	411	N.D.			
66) Azobenzene (1,2-DPH)	10.585	77	53761	330.15	ng/ml#		1

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

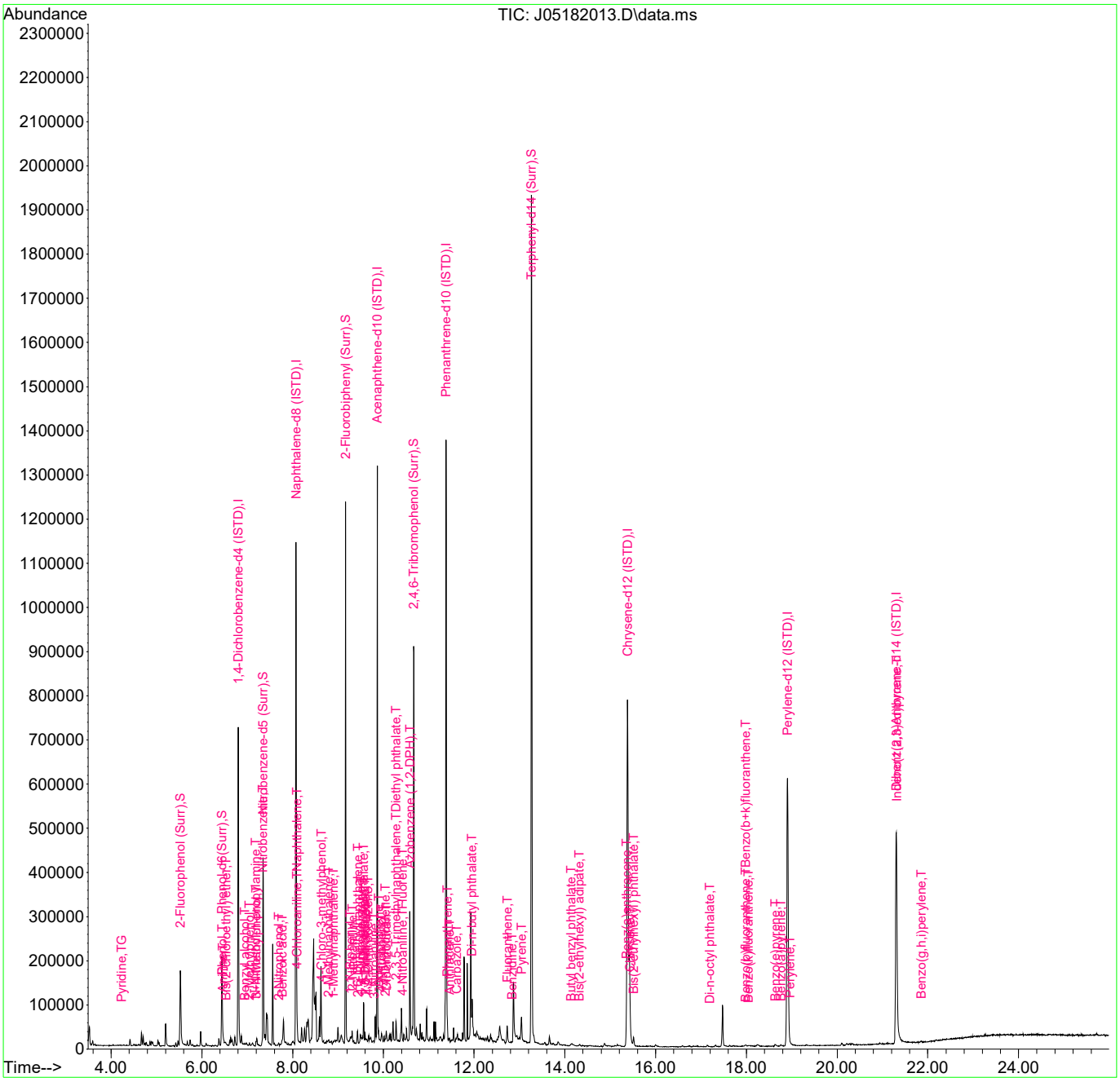
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.			
69) Hexachlorobenzene	0.000		0	N.D.			
70) Pentachlorophenol (PCP)	0.000		0	N.D.			
71) Phenanthrene	11.408	178	19470	58.83	ng/ml	B07	96
72) Anthracene	11.456	178	4039	12.71	ng/ml	Raise B/B02	93
73) Carbazole	11.617	167	1441	11.12	ng/ml		87
74) Di-n-butyl phthalate	11.954	149	37701	113.95	ng/ml		98
75) Fluoranthene	12.729	202	21472	60.46	ng/ml	B07	96
76) Benzidine	12.836	184	78	135.43	ng/ml#		1
77) Pyrene	13.045	202	27113	76.28	ng/ml	B07	97
80) Butyl benzyl phthalate	14.136	149	1155	39.94	ng/ml		93
81) Bis(2-ethylhexyl) adipate	14.318	129	1910	17.28	ng/ml		92
82) 3,3-Dichlorobenzidine	0.000		0	N.D.			
83) Benz(a)anthracene	15.356	228	6125	18.96	ng/ml	Raise B/B02	82
84) Chrysene	15.441	228	6259	20.57	ng/ml	B07	89
85) Bis(2-ethylhexyl) phth...	15.516	149	10757	61.33	ng/ml		99
87) Di-n-octyl phthalate	17.190	149	105	72.47	ng/ml#		1
88) Benzo(b)fluoranthene	17.987	252	3467	20.41	ng/ml	Raise B/B02	91
89) Benzo(k)fluoranthene	18.041	252	1021	12.61	ng/ml		98
90) Benzo(b+k)fluoranthene	17.987	252	5085	33.26	ng/ml		93
91) Benzo(e)pyrene	18.634	252	2480	9.42	ng/ml		89
92) Benzo(a)pyrene	18.763	252	2796	21.07	ng/ml	Raise B/B02	89
93) Perylene	18.961	252	870	3.43	ng/ml		93
95) Indeno(1,2,3-cd)pyrene	21.314	276	2245	8.51	ng/ml#		34
96) Dibenz(a,h)anthracene	21.362	278	375	N.D.			
97) Benzo(g,h,i)perylene	21.854	276	2102	8.42	ng/ml		80

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

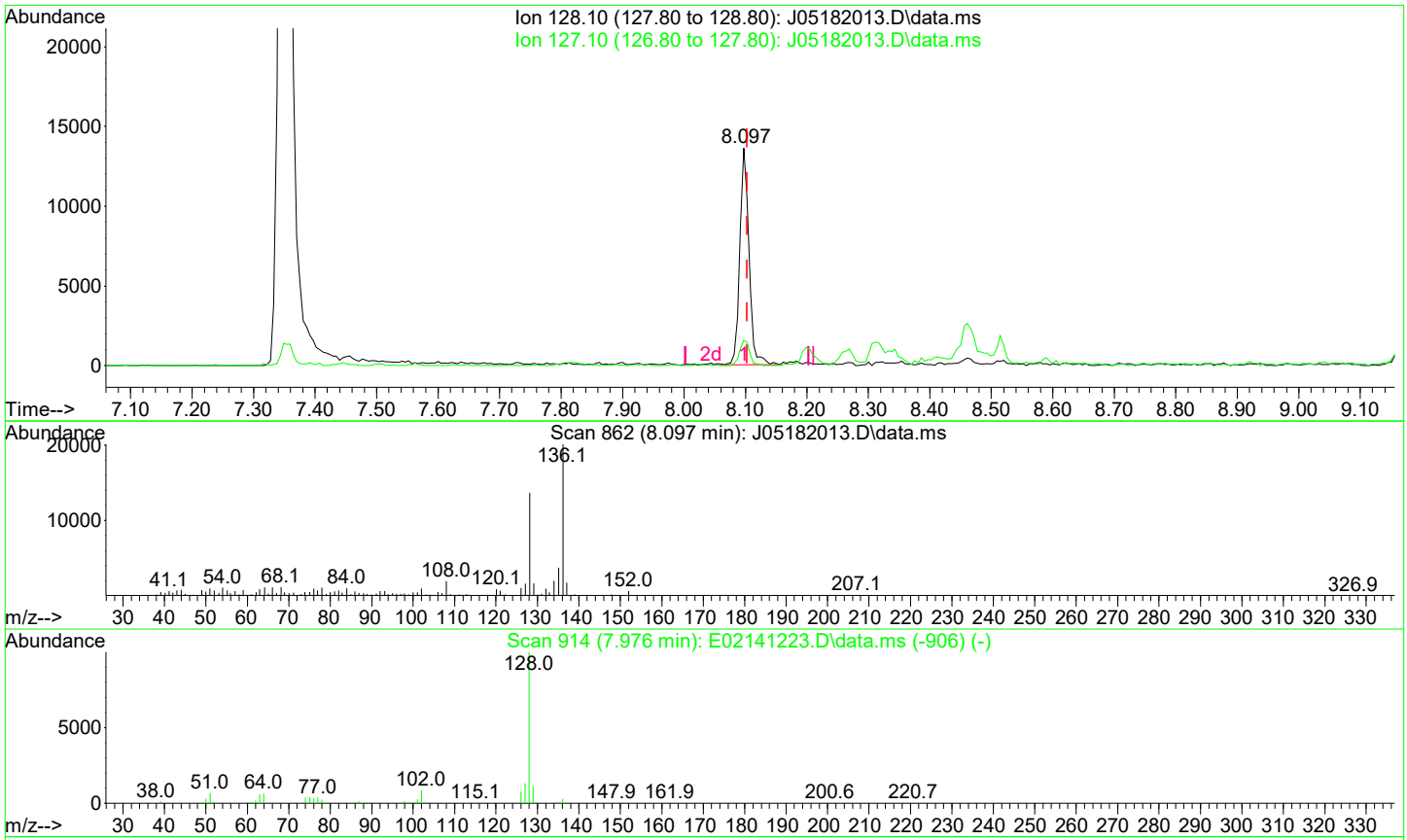
Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182013.D\data.ms

(29) Naphthalene (T)

8.097min (-0.005) 41.73 ng/ml

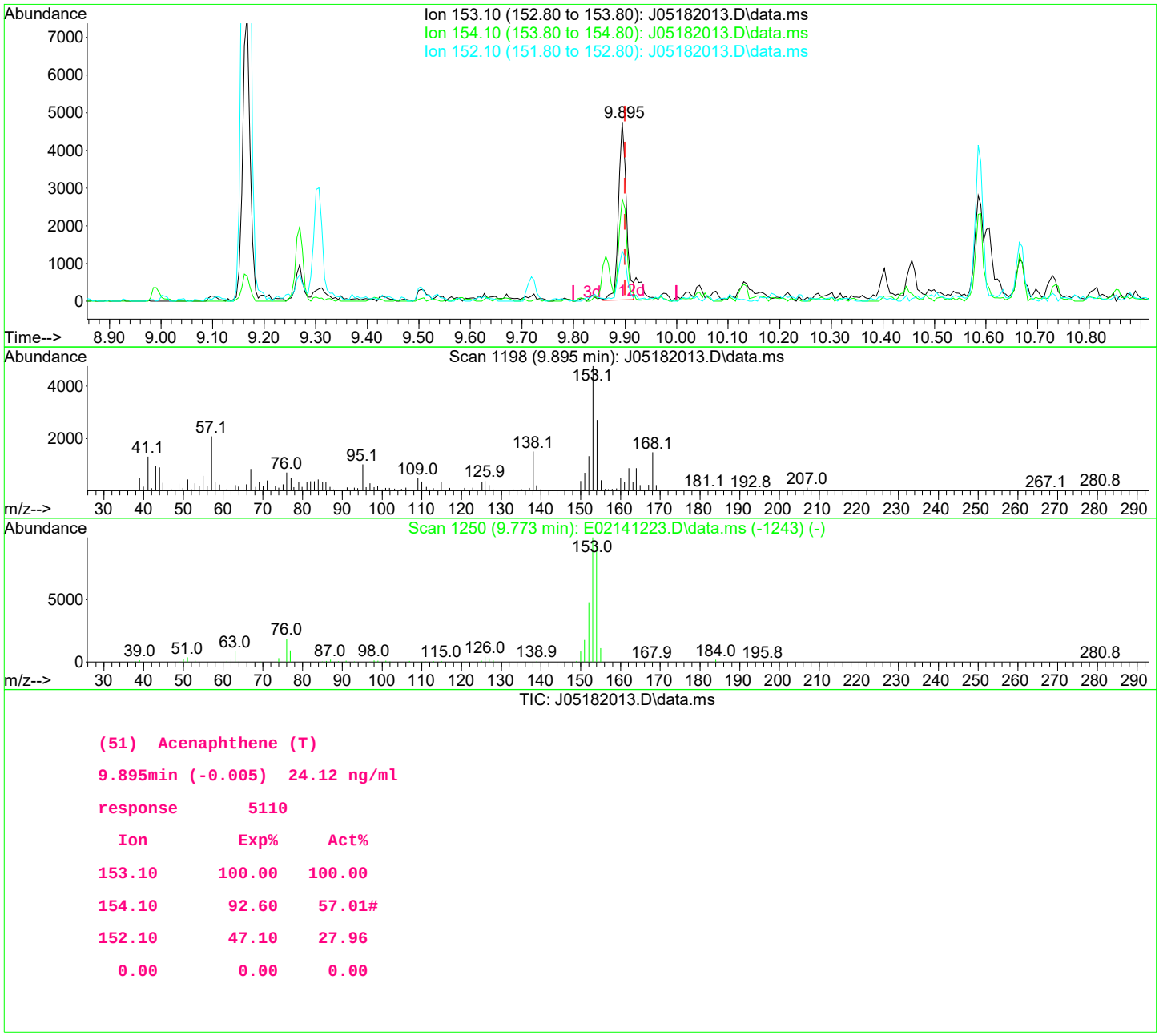
response 14177

Ion	Exp%	Act%
128.10	100.00	100.00
127.10	12.60	11.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182013.D\data.ms

(51) Acenaphthene (T)

9.895min (-0.005) 24.12 ng/ml

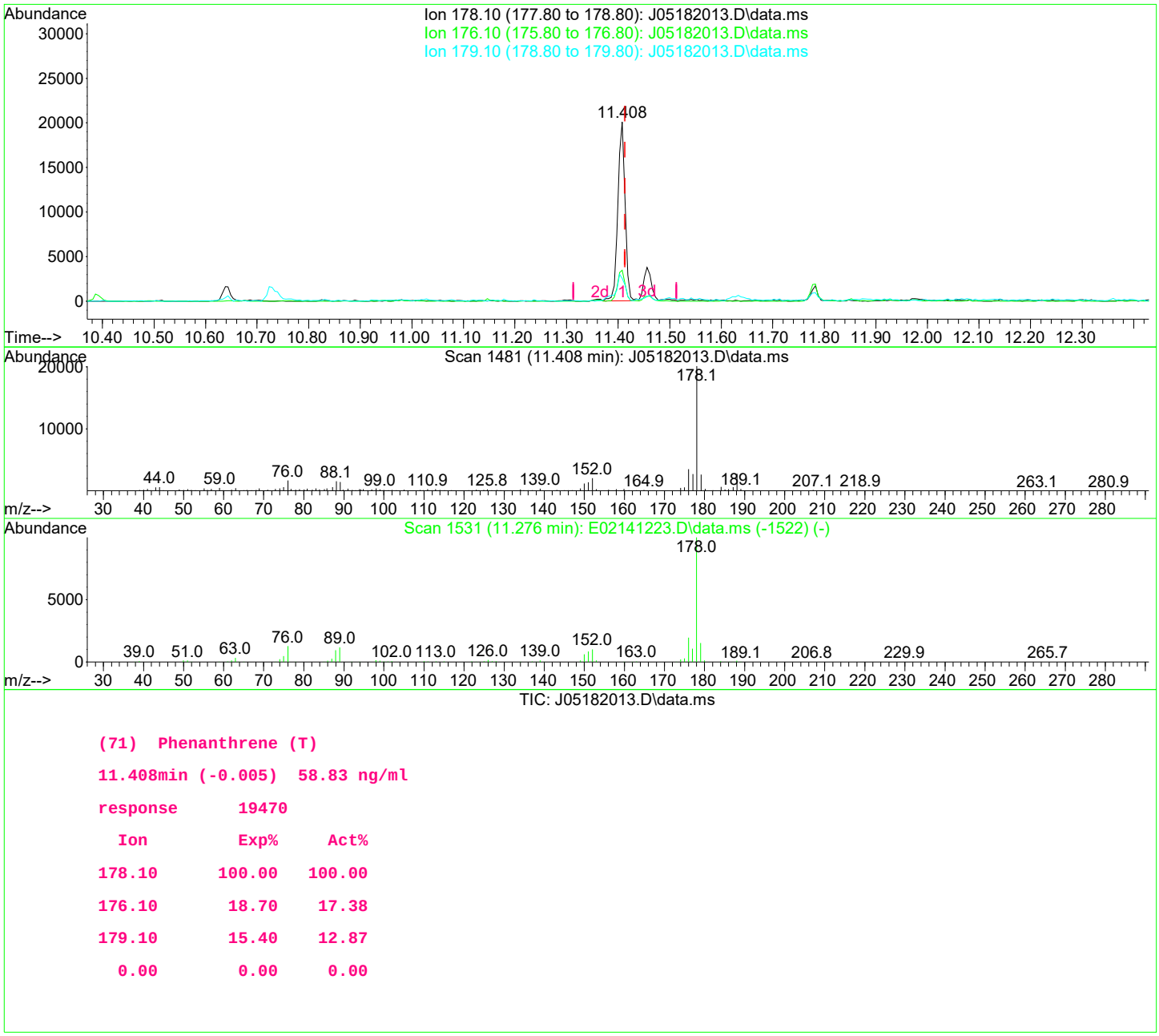
response 5110

Ion	Exp%	Act%
153.10	100.00	100.00
154.10	92.60	57.01#
152.10	47.10	27.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182013.D\data.ms

(71) Phenanthrene (T)

11.408min (-0.005) 58.83 ng/ml

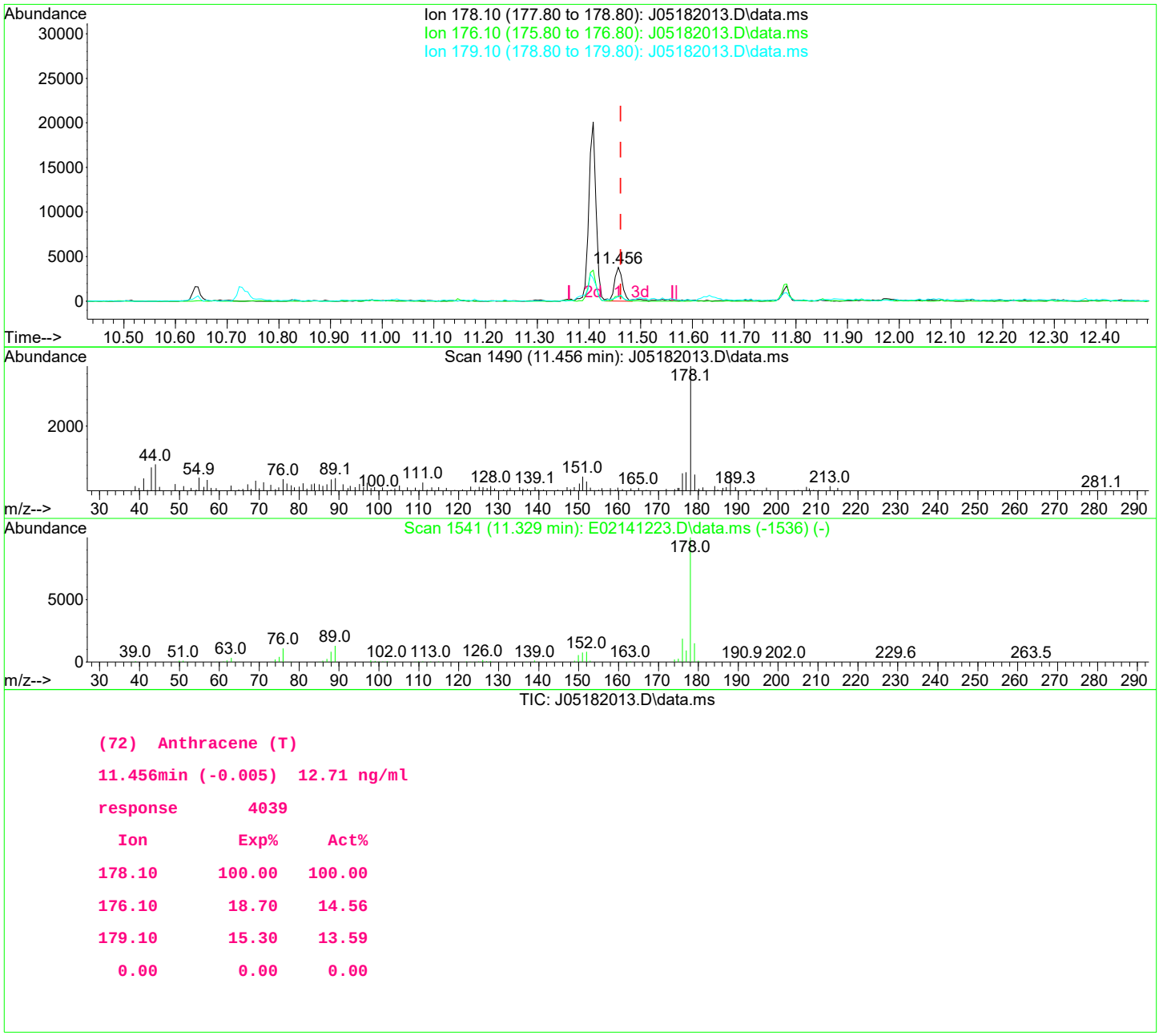
response 19470

Ion	Exp%	Act%
178.10	100.00	100.00
176.10	18.70	17.38
179.10	15.40	12.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182013.D\data.ms

(72) Anthracene (T)

11.456min (-0.005) 12.71 ng/ml

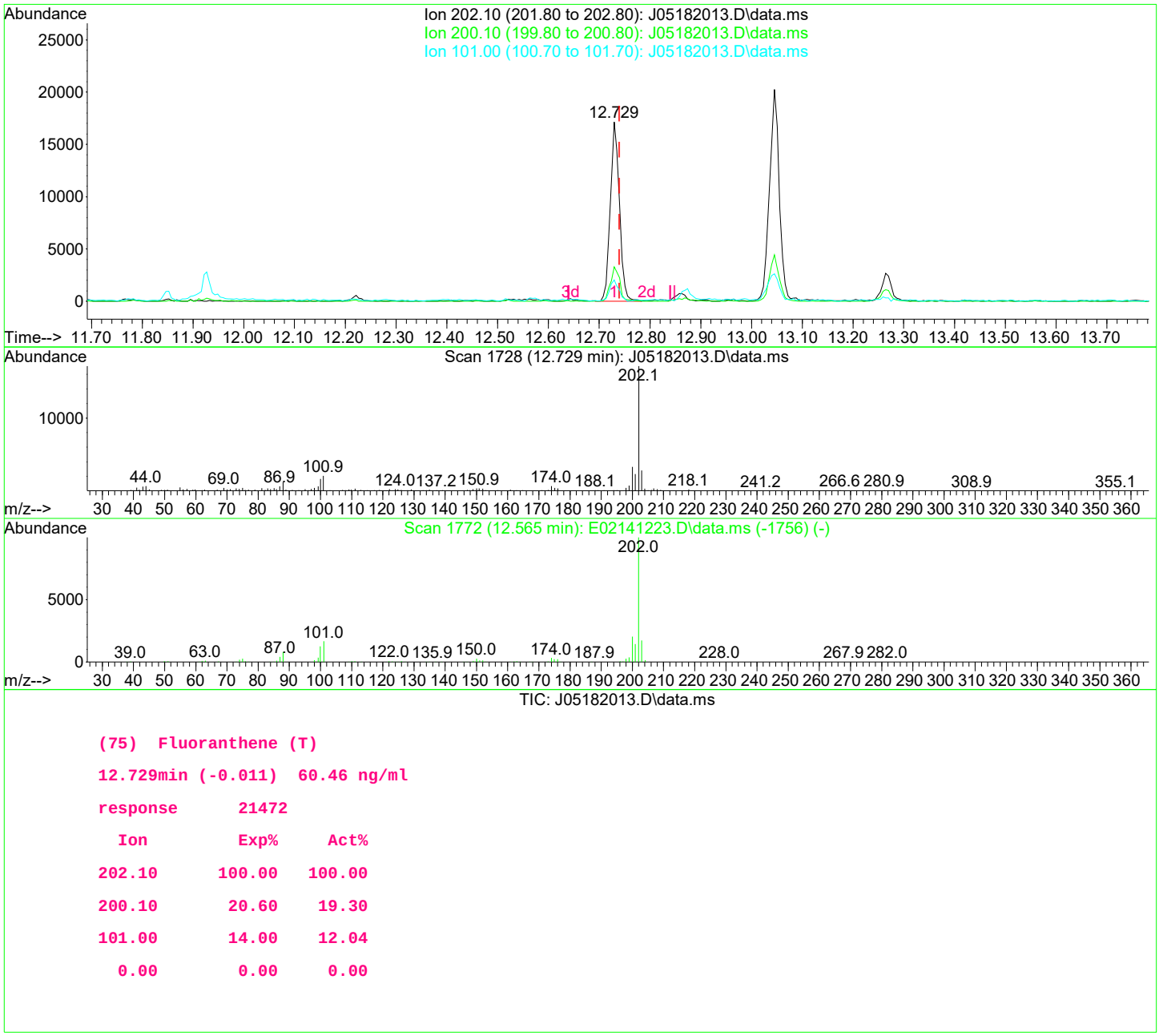
response 4039

Ion	Exp%	Act%
178.10	100.00	100.00
176.10	18.70	14.56
179.10	15.30	13.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182013.D\data.ms

(75) Fluoranthene (T)

12.729min (-0.011) 60.46 ng/ml

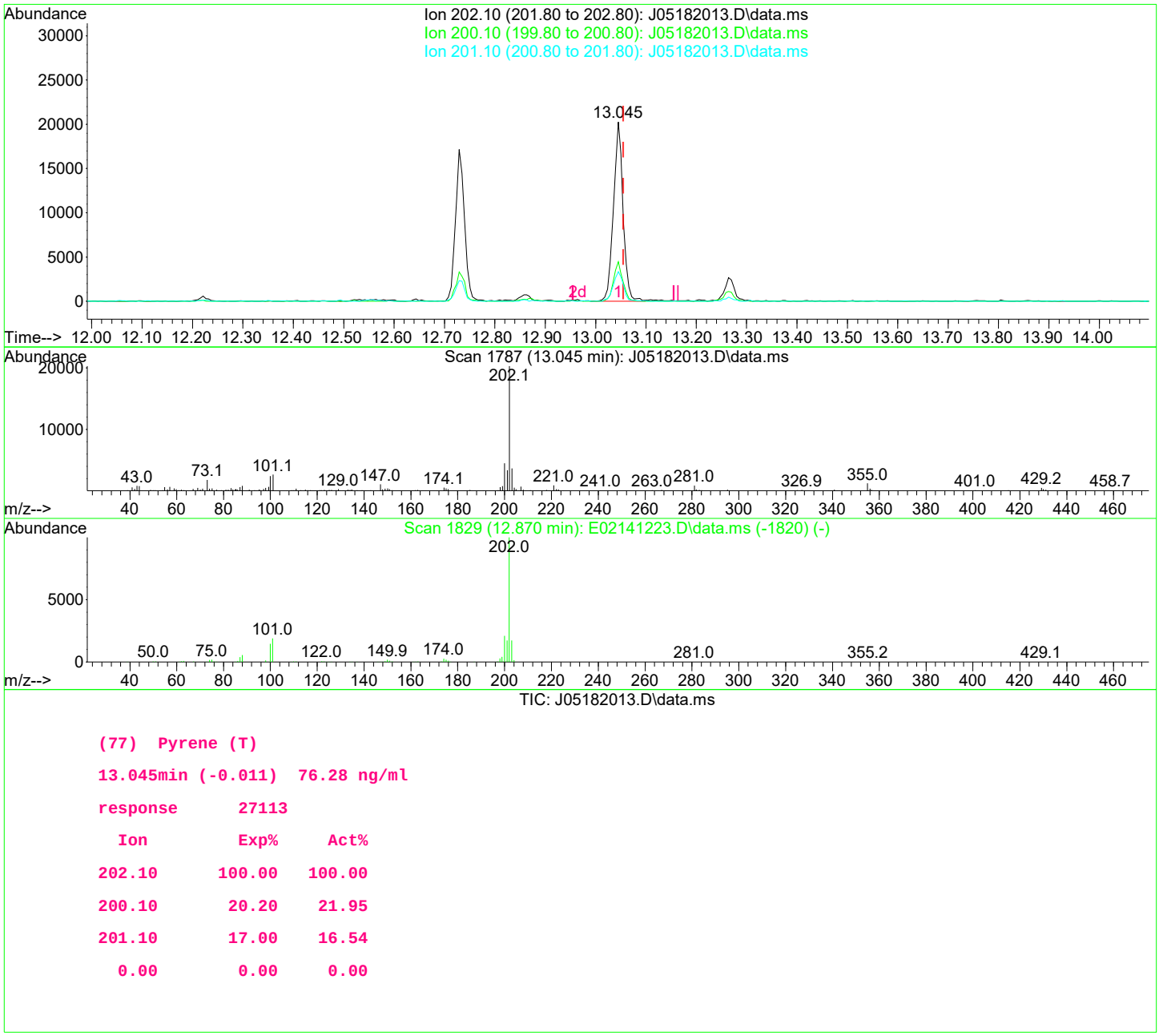
response 21472

Ion	Exp%	Act%
202.10	100.00	100.00
200.10	20.60	19.30
101.00	14.00	12.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182013.D\data.ms

(77) Pyrene (T)

13.045min (-0.011) 76.28 ng/ml

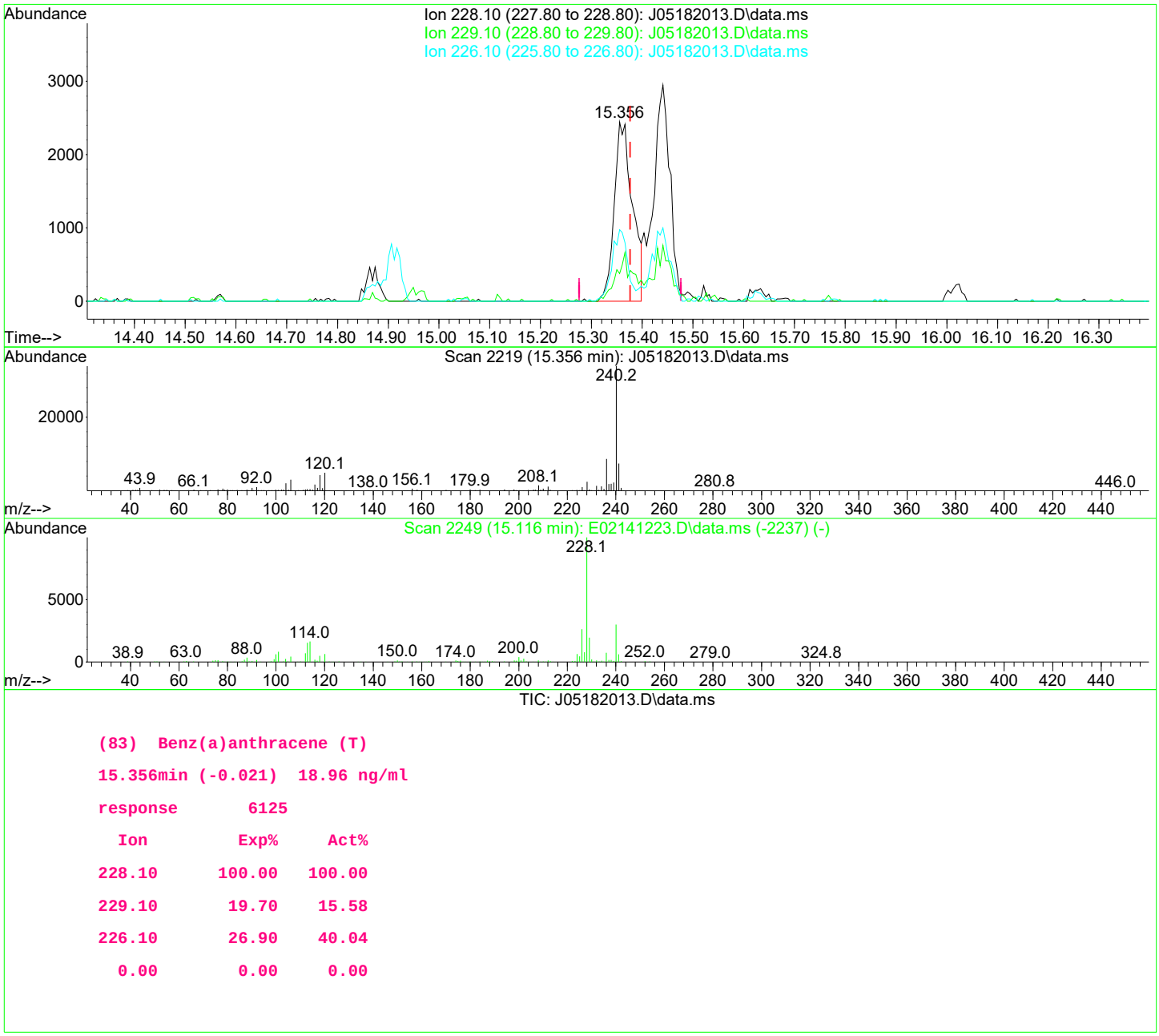
response 27113

Ion	Exp%	Act%
202.10	100.00	100.00
200.10	20.20	21.95
201.10	17.00	16.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182013.D\data.ms

(83) Benz(a)anthracene (T)

15.356min (-0.021) 18.96 ng/ml

response 6125

Ion	Exp%	Act%
228.10	100.00	100.00
229.10	19.70	15.58
226.10	26.90	40.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182013.D\data.ms

(84) Chrysene (T)

15.441min (-0.021) 20.57 ng/ml

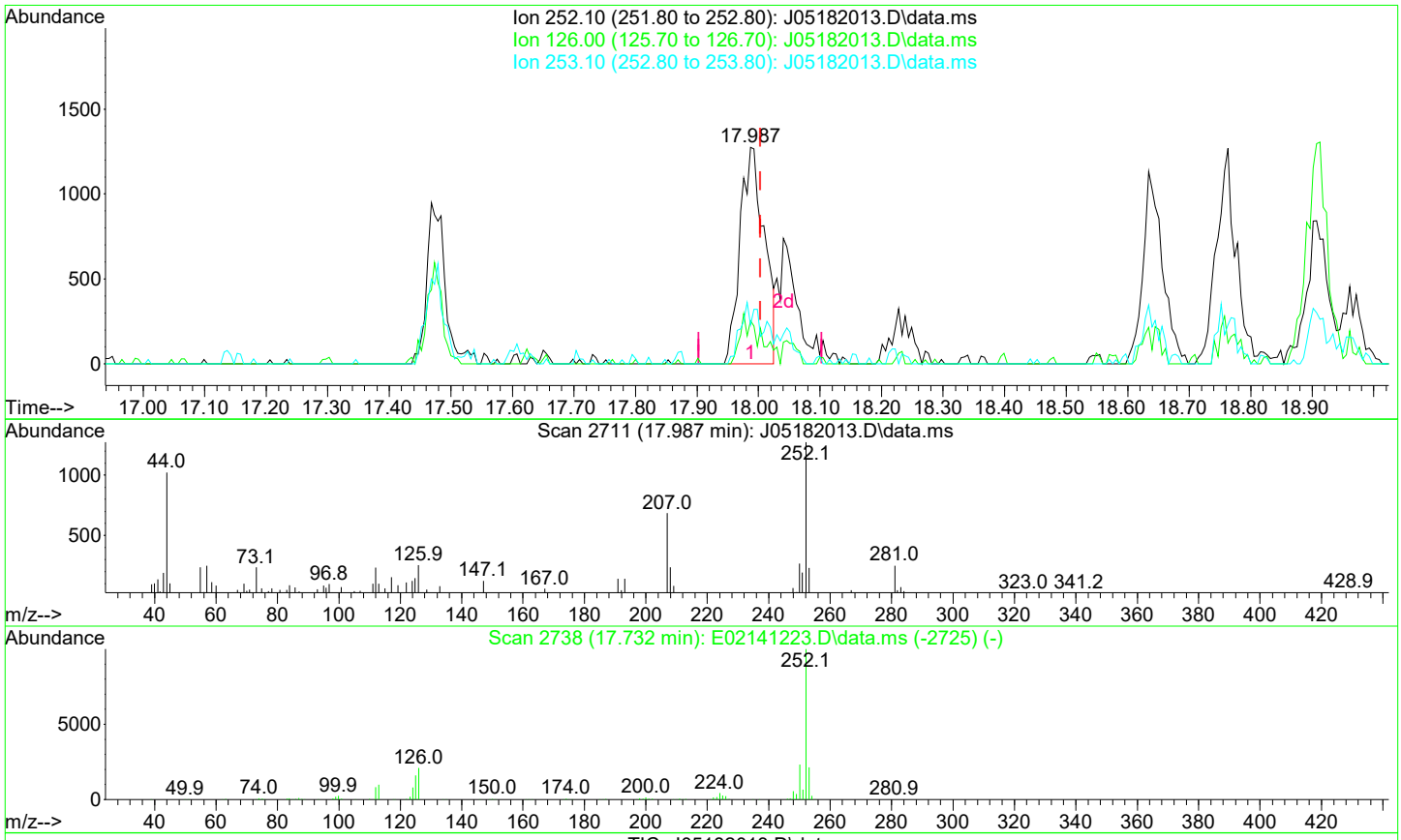
response 6259

Ion	Exp%	Act%
228.10	100.00	100.00
229.10	19.90	25.92
226.10	29.30	34.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182013.D\data.ms

(88) Benzo(b)fluoranthene (T)

17.987min (-0.016) 20.41 ng/ml

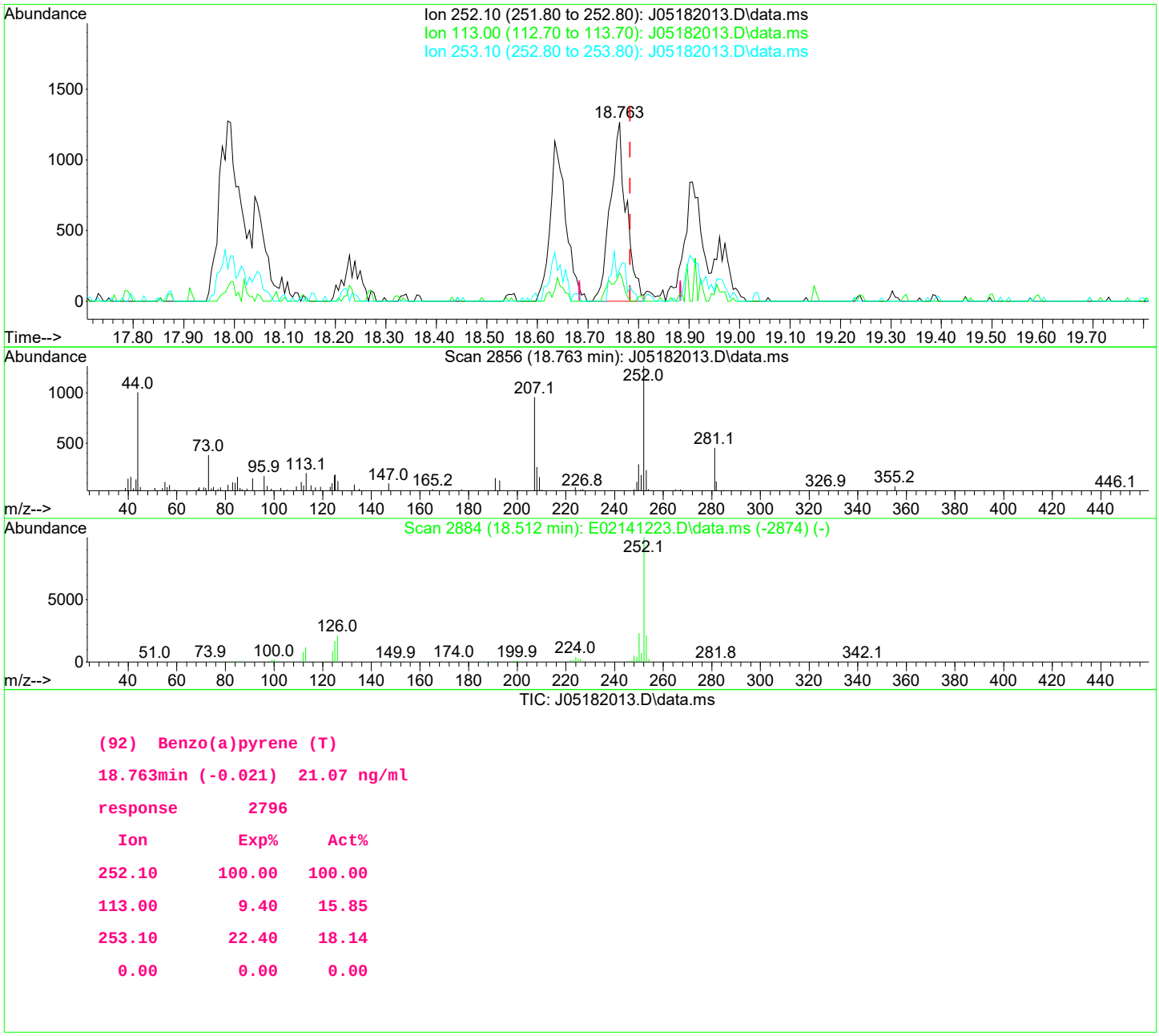
response 3467

Ion	Exp%	Act%
252.10	100.00	100.00
126.00	16.20	19.92
253.10	22.30	18.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E18040\
Data File : J05182013.D
Acq On : 18 May 2020 5:44 pm
Operator : JK/ AMS/ DTH
Sample : A0E0347-02RE1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 08:51:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



TIC: J05182013.D\data.ms

(92) Benzo(a)pyrene (T)

18.763min (-0.021) 21.07 ng/ml

response 2796

Ion	Exp%	Act%
252.10	100.00	100.00
113.00	9.40	15.85
253.10	22.40	18.14
0.00	0.00	0.00

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data

Batch 0050699
Sequence 0E20035 (A0E0347-02RE2)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050699 (Water)

Prep Method: EPA 3510C (Acid Extraction)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050699-BLK1		QC	05/19/20 15:21	1100	1				100					
	0050699-BSD1		QC	05/19/20 15:21	1000	1	A20D320		50	100					
	0050699-BS1		QC	05/19/20 15:21	1000	1	A20D320		50	100					
	A0E0347-02RE2	I	8270D LL PAH/PHTH/Phenols	05/19/20 15:21	1040	1				100	PDI-RB-20051212245	Due to blank contamination. Added 5/19/2020 By jk			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20A078	01/14/22	Conc. HCl - Omnitrace
A20B017	08/01/20	Glass Wool
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E020	10/31/22	DCM CHEM PROD. 197898

Analyte Spike(s)

Std ID	Exp. Date	Description
A20D320	10/19/20	8270D PAH+/Phenols (JSCS) Spike @ 80 PPM

Surrogate(s)

Std ID	Exp. Date	Description
A20E103	11/08/20	PAH Soil and Water Surr. (50ppm)

3x rinse

Witness: _____

Bottle Check: _____

Prepared By: _____ Date _____

Reviewed By: AMS Date 5/21/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050699 (Water)

Prep Method: EPA 3510C (Acid Extraction)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050699-BLK1		QC	05/19/20 15:21	~~1000~~ 1100	1 ✓				100			✓		
	0050699-BSD1		QC	05/19/20 15:21	1000	1 ✓	A20D320		50	100			✓		
	0050699-BS1		QC	05/19/20 15:21	1000	1 ✓	A20D320		50	100			✓		
	A0E0347-02RE2 CM 05.19.20	G	8270D LL PAH/PHTH/Phenols	05/19/20 15:21	~~1000~~ 1040	1 ✓				100	PDI-RB-2005121 245 ✓	Due to blank contamination. Added 5/19/2020 By jk	✓		

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20A078	01/14/22	Conc. HCl - Omnitrace
A20B017	08/01/20	Glass Wool
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E020	10/31/22	DCM CHEM PROD. 197898

Analyte Spike(s) CM

~~Std ID~~	Exp. Date	Description
A20D320	10/19/20	8270D PAH+/Phenols (JSCS) Spike @ 80 PPM

Surrogate(s) CM

Std ID	Exp. Date	Description
A20E103	11/08/20	PAH Soil and Water Surr. (50ppm)

3x rinse CM 05-19-20

Witness: CAS 05/19/2020

Bottle Check: CAS 05/19/2020

CM 05-19-20
Prepared By: Date

SCG 05-SCG 05/19/20
Reviewed By: ~~05~~/19/2020 Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0E20035	Instrument:	SV-GCMS5
Date:	**05/20/20 08:01**	Calibration:	**A0A0704**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E20035-TUN1	Water	QC	QC			A20C061	A20E130
2	0E20035-IBL1	Water	QC	QC			A20C061	
3	0E20035-TUN2	Water	QC	QC			A20C061	A20E130
4	0E20035-IBL2	Water	QC	QC			A20C061	
5	0E20035-CCV1	Water	QC	QC			A20C061	A20D248
6	0E20035-CCB1	Water	QC	QC			A20C061	
7	0050699-BLK1	Water	QC	QC		0050699	A20C061	
8	0050699-BS1	Water	QC	QC		0050699	A20C061	
9	0050699-BSD1	Water	QC	QC		0050699	A20C061	
10	A0E0347-02RE2	Water	8270D LL PAH/PHTH/Phenols	Anchor QEA, LLC	05/27/20	0050699	A20C061	
11	A0E0214-02RE1	Soil	8270E LL PAH/PHTH/Phenols		05/29/20	0050634	A20C061	
12	A0E0214-04RE1	Soil	8270E LL PAH/PHTH/Phenols		05/29/20	0050634	A20C061	
13	0E20035-IBL3	Water	QC	QC			A20C061	
14	0050743-BLK2	Water	QC	QC		0050743	A20C061	
15	0050743-BS2	Water	QC	QC		0050743	A20C061	
16	0050743-BSD2	Water	QC	QC		0050743	A20C061	
17	A0E0537-01	Water	8270E LL PAH/PHTH/Phenols		05/22/20	0050743	A20C061	
18	A0E0537-02	Water	8270E LL PAH/PHTH/Phenols		05/22/20	0050743	A20C061	
19	A0E0537-03	Water	8270E LL PAH/PHTH/Phenols		05/22/20	0050743	A20C061	
20	A0E0537-04	Water	8270E LL PAH/PHTH/Phenols		05/22/20	0050743	A20C061	
21	A0E0414-01RE1	Water	8270E LL PAH/PHTH/Phenols		05/28/20	0050743	A20C061	
22	A0E0414-02RE1	Water	8270E LL PAH/PHTH/Phenols		05/28/20	0050743	A20C061	
23	0E20035-IBL4	Water	QC	QC			A20C061	

Data Entered By: AMS 5/21/20

Comments:

Data Reviewed By: JK 5/21/20

5/21/2020 9:24:21AM

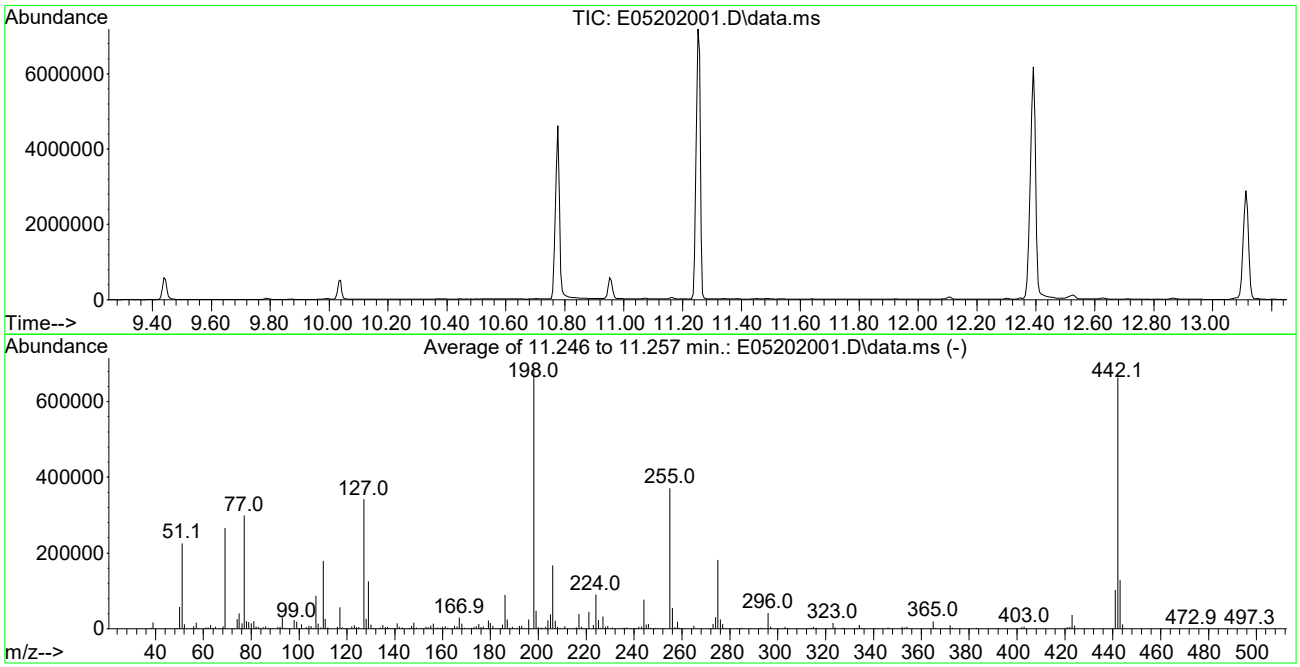
AMS 5/21/20

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202001.D
Acq On : 20 May 2020 8:13 am
Operator : JK/ AMS /DTH
Sample : 0E20035-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

T01

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Thu May 14 08:36:52 2020



AutoFind: Scans 1432, 1433, 1434; Background Corrected with Scan 1428

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	2.0	5335	FAIL*
69	198	0.01	100	39.2	266628	PASS
70	69	0.00	2	0.5	1226	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	680555	PASS
199	198	5	9	6.9	47021	PASS
365	198	1	100	2.9	19929	PASS
441	443	0.01	150	79.5	102157	PASS
442	198	0.10	200	97.5	663424	PASS
443	442	15	24	19.4	128437	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202001.D
Acq On : 20 May 2020 8:13 am
Operator : JK/ AMS /DTH
Sample : 0E20035-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:27:37 2020
Quant Method : C:\msdchem\1\METHODS\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu May 14 08:36:52 2020
Response via : Initial Calibration

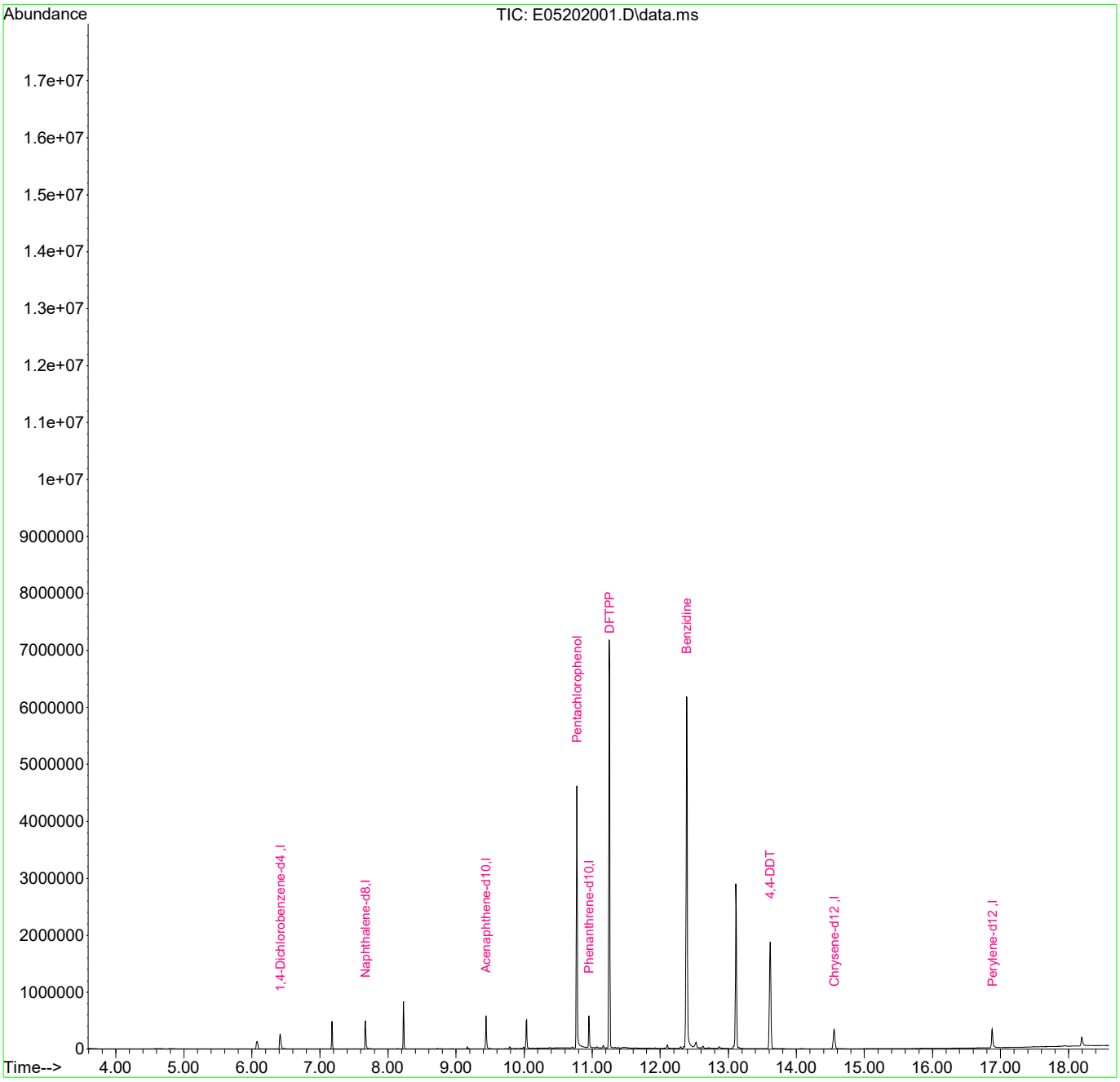
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.416	150	97309	2.00	ug/mL	0.00
2) Naphthalene-d8	7.668	136	255350	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.438	162	130097	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.952	188	212755	2.00	ug/mL	0.00
11) Chrysene-d12	14.557	240	194179	2.00	ug/mL	0.00
12) Perylene-d12	16.878	264	159279	2.00	ug/mL	0.00
Target Compounds						Qvalue
4) Pentachlorophenol	10.776	266	535347	43.58	ug/mL	88
6) DFTPP	11.257	442	791953	46.11	ug/mL	76
7) Benzidine	12.391	184	3082905	40.73	ug/mL	94
8) 4,4-DDE	12.626	TIC	50360	No Calib		
9) 4,4-DDD	13.113	TIC	3623227	No Calib		
10) 4,4-DDT	13.616	TIC	2610219	11.96	ug/mL	95

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202001.D
Acq On : 20 May 2020 8:13 am
Operator : JK/ AMS /DTH
Sample : 0E20035-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:27:37 2020
Quant Method : C:\msdchem\1\METHODS\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu May 14 08:36:52 2020
Response via : Initial Calibration



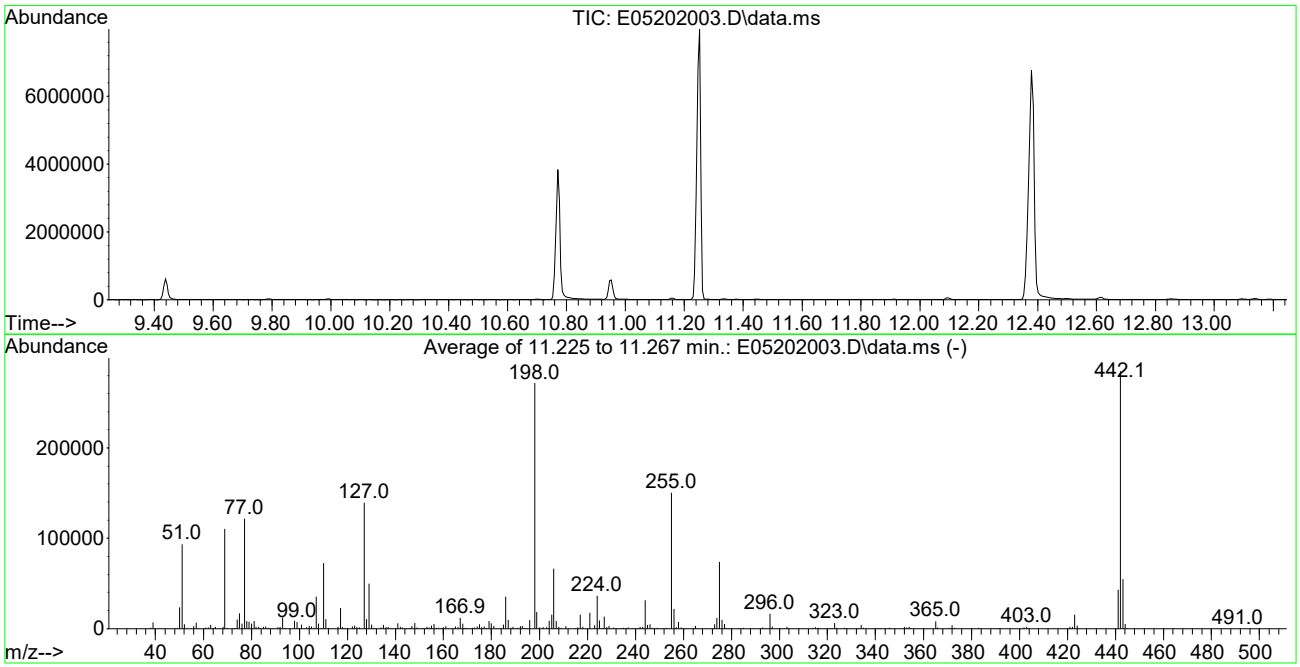
AMS 5/21/20

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202003.D
Acq On : 20 May 2020 9:40 am
Operator : JK/ AMS /DTH
Sample : 0E20035-TUN2
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Replaced liner

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Thu May 14 08:36:52 2020



AutoFind: Averaged scan 1428 to 1436; Bkg corrected with scan 1427)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	1993	PASS
69	198	0.01	100	40.7	110543	PASS
70	69	0.00	2	0.4	489	PASS
197	198	0.00	2	0.0	11	PASS
198	198	100	100	100.0	271626	PASS
199	198	5	9	6.8	18486	PASS
365	198	1	100	3.0	8220	PASS
441	443	0.01	150	79.1	43338	PASS
442	198	0.10	200	104.9	284961	PASS
443	442	15	24	19.2	54821	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202003.D
Acq On : 20 May 2020 9:40 am
Operator : JK/ AMS /DTH
Sample : 0E20035-TUN2
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:28:39 2020
Quant Method : C:\msdchem\1\METHODS\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu May 14 08:36:52 2020
Response via : Initial Calibration

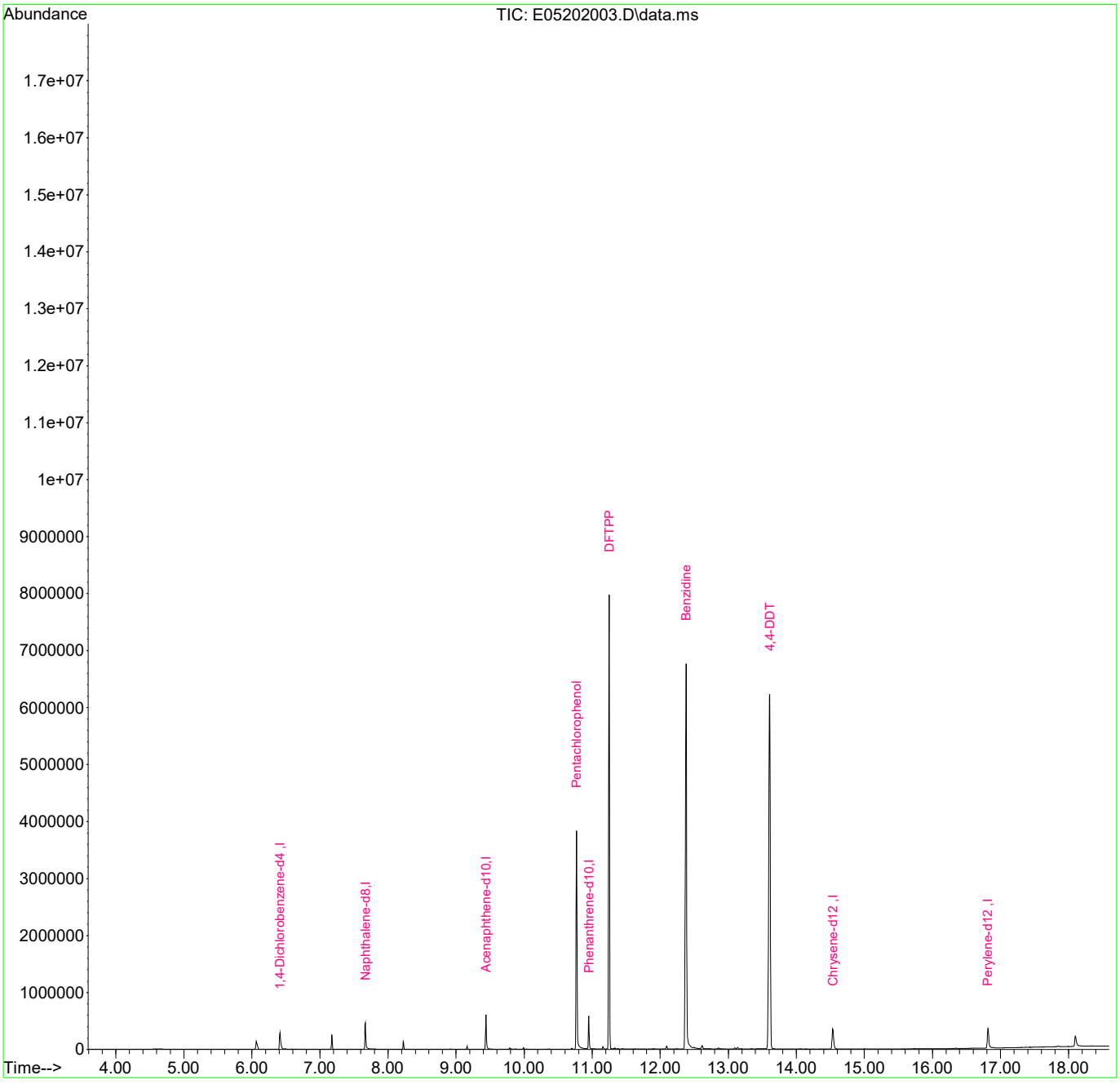
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.411	150	104681	2.00	ug/mL	0.00
2) Naphthalene-d8	7.668	136	258319	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.438	162	131051	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.952	188	229672	2.00	ug/mL	0.00
11) Chrysene-d12	14.536	240	201578	2.00	ug/mL	-0.02
12) Perylene-d12	16.814	264	169400	2.00	ug/mL	-0.06
Target Compounds						Qvalue
4) Pentachlorophenol	10.770	266	451699	36.50	ug/mL	92
6) DFTPP	11.251	442	820286	44.24	ug/mL	87
7) Benzidine	12.380	184	3483637	42.64	ug/mL	94
8) 4,4-DDE	12.615	TIC	76824	No Calib		
9) 4,4-DDD	13.097	TIC	27855	No Calib		
10) 4,4-DDT	13.610	TIC	9527685	40.45	ug/mL	95

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202003.D
Acq On : 20 May 2020 9:40 am
Operator : JK/ AMS /DTH
Sample : 0E20035-TUN2
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:28:39 2020
Quant Method : C:\msdchem\1\METHODS\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu May 14 08:36:52 2020
Response via : Initial Calibration



DDT Breakdown Check (Validated 5/1/2013)

From:
0E20035-TUN2
SV-GCMS 5

First Column	Area Counts	Percent Breakdown	
DDE	76824		
DDD	27855		
DDT	9527685	**1.09**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202003.D
Acq On : 20 May 2020 9:40 am
Operator : JK/ AMS /DTH
Sample : 0E20035-TUN2
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:28:39 2020
Quant Method : C:\msdchem\1\METHODS\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu May 14 08:36:52 2020
Response via : Initial Calibration



TIC: E05202003.D\data.ms

(4) Pentachlorophenol

10.770min (-0.006) 36.50 ug/mL

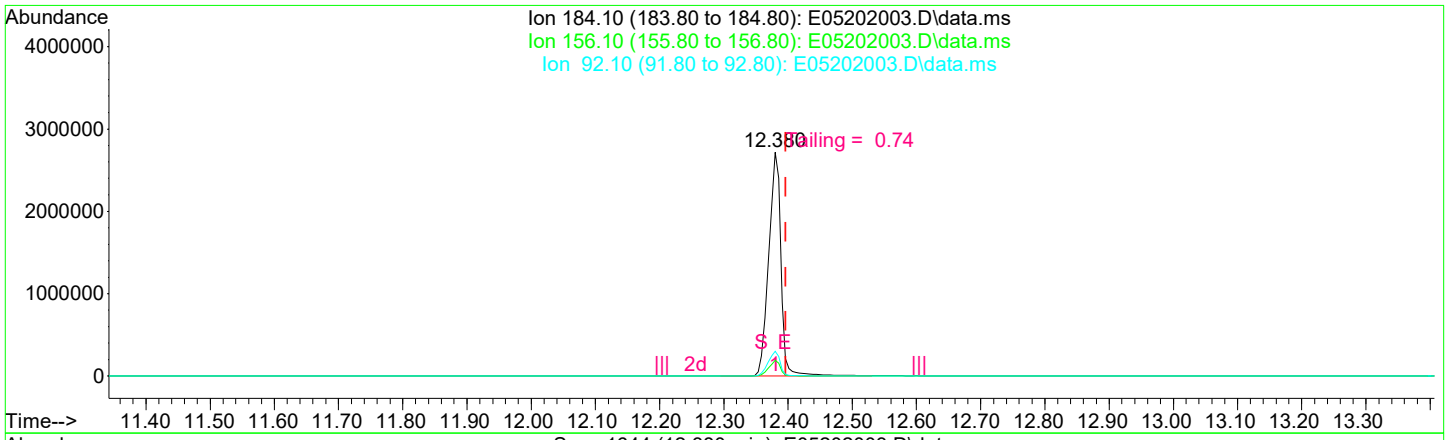
response 451699

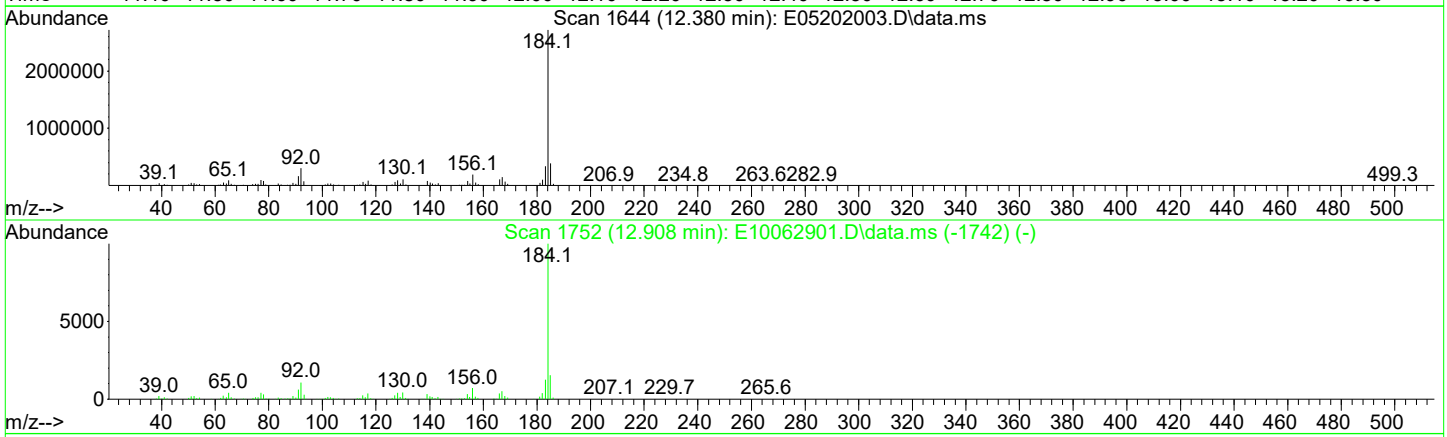
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	47.60	41.92
201.90	23.20	22.21
129.90	27.10	19.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202003.D
Acq On : 20 May 2020 9:40 am
Operator : JK/ AMS /DTH
Sample : 0E20035-TUN2
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:28:39 2020
Quant Method : C:\msdchem\1\METHODS\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu May 14 08:36:52 2020
Response via : Initial Calibration





TIC: E05202003.D\data.ms

(7) Benzidine

12.380min (-0.016) 42.64 ug/mL

response 3483637

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.01
92.10	8.20	11.07
0.00	0.00	0.00

Evaluate Continuing Calibration Report

AMS 5/21/20

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202005.D
Acq On : 20 May 2020 10:44 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCV1
Misc : 1x, A210D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 08:50:01 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4 (IST	2000.000	2000.000	0.0	67	0.00
2	T	N-Nitrosodimethylamine	1000.000	948.831	5.1	62	0.00
3	T	Pyridine	1000.000	991.582	0.8	63	-0.01
4	S	2-Fluorophenol (Surr)	1000.000	1066.272	-6.6	67	-0.01
5	S	Phenol-d6(Surr)	1000.000	1064.855	-6.5	66	-0.01
6	T	Phenol	1000.000	1031.883	-3.2	65	0.00
7	T	Aniline	1000.000	1038.831	-3.9	65	0.00
8	T	Bis(2-chloroethyl) ether	1000.000	999.836	0.0	66	-0.01
9	T	2-Chlorophenol	1000.000	1080.744	-8.1	68	0.00
10	T	1,3-Dichlorobenzene	1000.000	1003.534	-0.4	67	0.00
11	T	1,4-Dichlorobenzene	1000.000	1003.211	-0.3	66	0.00
12	T	Benzyl alcohol	1000.000	1054.659	-5.5	74	0.00
13	T	1,2-Dichlorobenzene	1000.000	1010.804	-1.1	67	0.00
14	T	2-Methylphenol	1000.000	1119.084	-11.9	69	-0.01
15	T	2,2'-Oxybis(1-Chloropropane	1000.000	1038.108	-3.8	68	0.00
16	T	N-Nitrosodi-n-propylamine	1000.000	1136.908	-13.7	68	0.00
17	T	3+4-Methylphenol	1000.000	1034.481	-3.4	68	-0.01
18	T	Hexachloroethane	1000.000	997.222	0.3	65	0.00
19	S	Nitrobenzene-d5 (Surr)	1000.000	1060.761	-6.1	68	-0.01
20	T	Nitrobenzene	1000.000	1044.721	-4.5	67	0.00
21	I	Naphthalene-d8 (ISTD)	2000.000	2000.000	0.0	71	0.00
22	T	Isophorone	1000.000	1013.487	-1.3	68	0.00
23	T	2-Nitrophenol	1000.000	1013.027	-1.3	67	0.00
24	T	2,4-Dimethylphenol	1000.000	1174.783	-17.5	78	0.00
25	T	Bis(2-chloroethoxy) methane	1000.000	969.069	3.1	67	0.00
26	T	Benzoic acid	2000.000	1404.975	29.8#	38	-0.03
27	T	2,4-Dichlorophenol	1000.000	1153.574	-15.4	75	0.00
28	T	1,2,4-Trichlorobenzene	1000.000	1034.146	-3.4	72	0.00
29	T	Naphthalene	1000.000	993.905	0.6	69	0.00
30	T	4-Chloroaniline	1000.000	1012.743	-1.3	72	0.00
31	T	Hexachlorobutadiene	1000.000	1071.845	-7.2	75	0.00
32	T	4-Chloro-3-methylphenol	1000.000	1150.645	-15.1	83	0.00
33	T	2-Methylnaphthalene	1000.000	1037.118	-3.7	71	0.00

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202005.D
Acq On : 20 May 2020 10:44 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCV1
Misc : 1x, A210D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 08:50:01 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
34	T	1-Methylnaphthalene	1000.000	1039.002	-3.9	71	0.00
35	I	Acenaphthene-d10 (ISTD)	2000.000	2000.000	0.0	78	0.00
36	T	Hexachlorocyclopentadiene	1000.000	892.032	10.8	65	0.00
37	T	2,4,6-Trichlorophenol	1000.000	1101.364	-10.1	83	0.00
38	T	2,4,5-Trichlorophenol	1000.000	1224.026	-22.4#	93	0.00
39	T	1,1'-Biphenyl	1000.000	1000.612	-0.1	76	-0.01
40	S	2-Fluorobiphenyl (Surr)	1000.000	1007.063	-0.7	77	0.00
41	T	2-Chloronaphthalene	1000.000	987.361	1.3	76	0.00
42	T	2-Nitroaniline	1000.000	1119.702	-12.0	85	0.00
43	T	2,6-Dimethylnaphthalene	1000.000	1012.838	-1.3	76	-0.01
44	T	1,4-Dinitrobenzene	1000.000	1187.330	-18.7	89	0.00
45	T	Dimethyl phthalate	1000.000	1136.215	-13.6	83	-0.01
46	T	1,3-Dinitrobenzene	1000.000	1175.783	-17.6	88	0.00
47	T	2,6-Dinitrotoluene	1000.000	1165.176	-16.5	85	0.00
48	T	1,2-Dinitrobenzene	1000.000	1090.740	-9.1	86	0.00
49	T	Acenaphthylene	1000.000	1055.724	-5.6	77	0.00
50	T	3-Nitroaniline	1000.000	1080.396	-8.0	90	0.00
51	T	Acenaphthene	1000.000	993.474	0.7	76	-0.01
52	T	2,4-Dinitrophenol	1000.000	794.000	20.6#	65	0.00
53	T	4-Nitrophenol	1000.000	950.591	4.9	79	0.00
54	T	2,4-Dinitrotoluene	1000.000	1195.716	-19.6	92	0.00
55	T	Dibenzofuran	1000.000	1069.512	-7.0	82	0.00
56	T	2,3,5,6-Tetrachlorophenol	1000.000	1279.256	-27.9#	94	0.00
57	T	2,3,4,6-Tetrachlorophenol	1000.000	1285.169	-28.5#	98	-0.01
58	T	Diethyl phthalate	1000.000	1193.378	-19.3	86	0.00
59	T	2,3,5-Trimethylnaphthalene	1000.000	1103.470	-10.3	81	0.00
60	T	Fluorene	1000.000	1126.904	-12.7	83	-0.01
61	T	4-Chlorophenyl phenyl ether	1000.000	1167.003	-16.7	89	-0.01
62	T	4-Nitroaniline	1000.000	1084.012	-8.4	88	0.00
63	T	4,6-Dinitro-2-methylphenol	1000.000	985.801	1.4	80	0.00
64	I	Phenanthrene-d10 (ISTD)	2000.000	2000.000	0.0	94	0.00
65	T	N-Nitrosodiphenylamine	1000.000	995.212	0.5	91	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202005.D
Acq On : 20 May 2020 10:44 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCV1
Misc : 1x, A210D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 08:50:01 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
66	T	Azobenzene (1,2-DPH)	1000.000	901.297	9.9	81	0.00
67	S	2,4,6-Tribromophenol (Surr)	1000.000	1229.706	-23.0#	113	0.00
68	T	4-Bromophenyl phenyl ether	1000.000	1059.852	-6.0	96	-0.01
69	T	Hexachlorobenzene	1000.000	1020.476	-2.0	95	0.00
70	T	Pentachlorophenol (PCP)	1000.000	1286.683	-28.7#	123	-0.01
71	T	Phenanthrene	1000.000	993.585	0.6	91	-0.01
72	T	Anthracene	1000.000	1085.717	-8.6	94	0.00
73	T	Carbazole	1000.000	1061.605	-6.2	95	-0.01
74	T	Di-n-butyl phthalate	1000.000	1083.261	-8.3	97	0.00
75	T	Fluoranthene	1000.000	1176.024	-17.6	100	-0.01
76	T	Benzidine	2000.000	2243.860	-12.2	104	-0.01
77	T	Pyrene	1000.000	1165.369	-16.5	99	-0.01
78	I	Chrysene-d12 (ISTD)	2000.000	2000.000	0.0	104	-0.01
79	S	Terphenyl-d14 (Surr)	1000.000	1076.773	-7.7	109	-0.01
80	T	Butyl benzyl phthalate	1000.000	1003.163	-0.3	104	-0.01
81	T	Bis(2-ethylhexyl) adipate	1000.000	1072.067	-7.2	111	-0.01
82	T	3,3-Dichlorobenzidine	2000.000	2734.391	-36.7#	135	-0.01
83	T	Benz(a)anthracene	1000.000	1044.907	-4.5	104	-0.02
84	T	Chrysene	1000.000	1007.301	-0.7	104	-0.02
85	T	Bis(2-ethylhexyl) phthalate	1000.000	987.749	1.2	101	-0.02
86	I	Perylene-d12 (ISTD)	2000.000	2000.000	0.0	109	-0.02
87	T	Di-n-octyl phthalate	1000.000	1064.393	-6.4	117	-0.02
88	T	Benzo(b)fluoranthene	1000.000	1089.565	-9.0	111	-0.02
89	T	Benzo(k)fluoranthene	1000.000	1043.009	-4.3	107	-0.02
90	T	Benzo(b+k)fluoranthene	2000.000	2125.507	-6.3	109	-0.02
91	T	Benzo(e)pyrene	1000.000	1069.898	-7.0	111	-0.02
92	T	Benzo(a)pyrene	1000.000	1167.880	-16.8	115	-0.01
93	T	Perylene	1000.000	1074.558	-7.5	113	-0.02
94	I	Dibenz(a,h)Anthrcene-d14 (I	2000.000	2000.000	0.0	121	-0.02
95	T	Indeno(1,2,3-cd)pyrene	1000.000	1016.607	-1.7	123	-0.02
96	T	Dibenz(a,h)anthracene	1000.000	1002.724	-0.3	119	-0.02

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202005.D
Acq On : 20 May 2020 10:44 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCV1
Misc : 1x, A210D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 08:50:01 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
97 T	Benzo(g,h,i)perylene	1000.000	1069.810	-7.0	118	-0.02

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202005.D
Acq On : 20 May 2020 10:44 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCV1
Misc : 1x, A210D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 08:50:01 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.423	152	333200	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.669	136	1345507	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.445	162	672243	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	10.953	188	1294900	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.569	240	1289443	2000.00	ng/ml	-0.01
86) Perylene-d12 (ISTD)	18.019	264	1205981	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	20.410	292	990727	2000.00	ng/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.220	112	224405	1066.27	ng/ml	-0.01
5) Phenol-d6(Surr)	6.086	99	284890	1064.85	ng/ml	-0.01
19) Nitrobenzene-d5 (Surr)	6.958	82	247485	1060.76	ng/ml	-0.01
40) 2-Fluorobiphenyl (Surr)	8.755	172	507601	1007.06	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.247	330	65521	1229.71	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.686	244	624451	1076.77	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.952	74	151510	948.83	ng/ml	93
3) Pyridine	3.963	79	241930	991.58	ng/ml	92
6) Phenol	6.102	94	324122	1031.88	ng/ml	92
7) Aniline	6.118	93	362938	1038.83	ng/ml	93
8) Bis(2-chloroethyl) ether	6.166	93	259640	999.84	ng/ml	92
9) 2-Chlorophenol	6.231	128	243592	1080.74	ng/ml	94
10) 1,3-Dichlorobenzene	6.370	146	267035	1003.53	ng/ml	97
11) 1,4-Dichlorobenzene	6.439	146	269976	1003.21	ng/ml	99
12) Benzyl alcohol	6.557	108	140465	1054.66	ng/ml	90
13) 1,2-Dichlorobenzene	6.589	146	257699	1010.80	ng/ml	98
14) 2-Methylphenol	6.669	107	193148	1119.08	ng/ml	99
15) 2,2'-Oxybis(1-Chloropr...	6.685	45	350948	1038.11	ng/ml	89
16) N-Nitrosodi-n-propylamine	6.808	70	182155	1136.91	ng/ml	94
17) 3+4-Methylphenol	6.819	107	241040	1034.48	ng/ml	98
18) Hexachloroethane	6.910	117	98013	997.22	ng/ml	94
20) Nitrobenzene	6.979	77	253607	1044.72	ng/ml	95
22) Isophorone	7.209	82	453638	1013.49	ng/ml	96
23) 2-Nitrophenol	7.295	139	116601	1013.03	ng/ml	93
24) 2,4-Dimethylphenol	7.338	122	196647	1174.78	ng/ml	99
25) Bis(2-chloroethoxy) me...	7.418	93	293859	969.07	ng/ml	98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202005.D
Acq On : 20 May 2020 10:44 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCV1
Misc : 1x, A210D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 08:50:01 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.418	105	31203	1404.97	ng/ml	95
27) 2,4-Dichlorophenol	7.536	162	170713	1153.57	ng/ml	97
28) 1,2,4-Trichlorobenzene	7.616	180	211289	1034.15	ng/ml	99
29) Naphthalene	7.691	128	736582	993.90	ng/ml	99
30) 4-Chloroaniline	7.750	127	245514	1012.74	ng/ml	96
31) Hexachlorobutadiene	7.819	225	109069	1071.84	ng/ml	99
32) 4-Chloro-3-methylphenol	8.242	107	172275	1150.64	ng/ml	94
33) 2-Methylnaphthalene	8.386	142	482819	1037.12	ng/ml	99
34) 1-Methylnaphthalene	8.482	142	452601	1039.00	ng/ml	99
36) Hexachlorocyclopentadiene	8.552	237	80270	892.03	ng/ml	98
37) 2,4,6-Trichlorophenol	8.675	196	112987	1101.36	ng/ml	100
38) 2,4,5-Trichlorophenol	8.718	196	116966	1224.03	ng/ml	99
39) 1,1'-Biphenyl	8.851	154	572859	1000.61	ng/ml	99
41) 2-Chloronaphthalene	8.878	162	429351	987.36	ng/ml	99
42) 2-Nitroaniline	8.985	138	137498	1119.70	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.012	156	421707	1012.84	ng/ml	98
44) 1,4-Dinitrobenzene	9.119	168	66785	1187.33	ng/ml	87
45) Dimethyl phthalate	9.162	163	494206	1136.22	ng/ml	99
46) 1,3-Dinitrobenzene	9.199	168	78557	1175.78	ng/ml	89
47) 2,6-Dinitrotoluene	9.226	165	115682	1165.18	ng/ml	91
48) 1,2-Dinitrobenzene	9.285	168	53491	1090.74	ng/ml	81
49) Acenaphthylene	9.295	152	678703	1055.72	ng/ml	100
50) 3-Nitroaniline	9.402	138	118041	1080.40	ng/ml	94
51) Acenaphthene	9.472	153	454623	993.47	ng/ml	99
52) 2,4-Dinitrophenol	9.515	184	18800	794.00	ng/ml	95
53) 4-Nitrophenol	9.595	139	61011	950.59	ng/ml	99
54) 2,4-Dinitrotoluene	9.638	165	150568	1195.72	ng/ml	81
55) Dibenzofuran	9.648	168	616960	1069.51	ng/ml	98
56) 2,3,5,6-Tetrachlorophenol	9.739	232	91413	1279.26	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	9.782	232	100299	1285.17	ng/ml	97
58) Diethyl phthalate	9.878	149	507160	1193.38	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	9.862	170	402848	1103.47	ng/ml	99
60) Fluorene	9.996	166	518123	1126.90	ng/ml	99
61) 4-Chlorophenyl phenyl ...	9.991	204	238967	1167.00	ng/ml	95
62) 4-Nitroaniline	10.023	138	117013	1084.01	ng/ml	92
63) 4,6-Dinitro-2-methylph...	10.060	198	55355	985.80	ng/ml	99
65) N-Nitrosodiphenylamine	10.114	169	441672	995.21	ng/ml	99
66) Azobenzene (1,2-DPH)	10.157	77	528544	901.30	ng/ml	94

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202005.D
Acq On : 20 May 2020 10:44 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCV1
Misc : 1x, A210D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 08:50:01 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

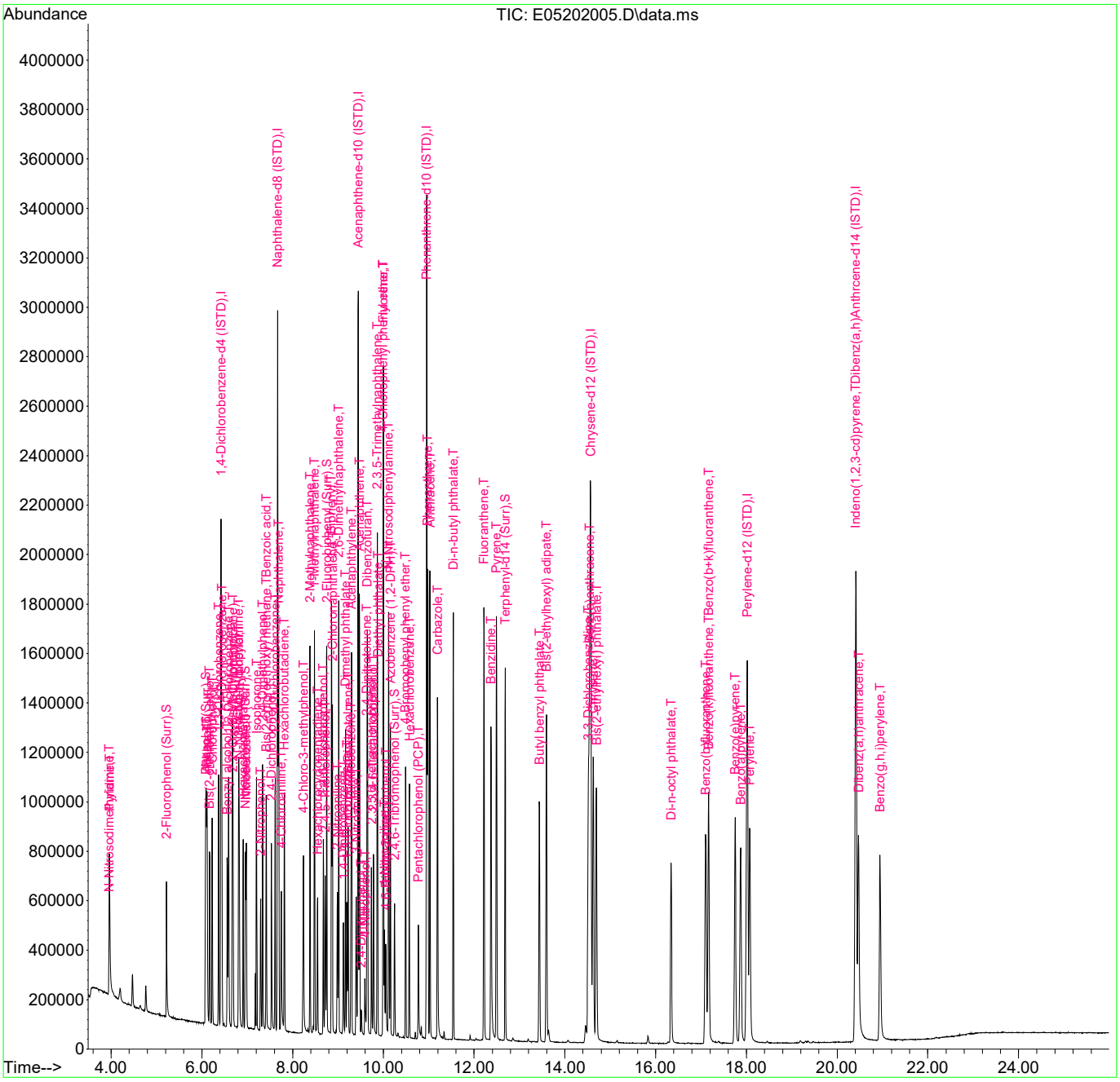
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.488	248	134847	1059.85	ng/ml	95
69) Hexachlorobenzene	10.574	284	147318	1020.48	ng/ml	98
70) Pentachlorophenol (PCP)	10.772	266	59669	1286.68	ng/ml	98
71) Phenanthrene	10.975	178	753980	993.58	ng/ml	100
72) Anthracene	11.028	178	763011	1085.72	ng/ml	99
73) Carbazole	11.194	167	685371	1061.60	ng/ml	99
74) Di-n-butyl phthalate	11.542	149	856172	1083.26	ng/ml	99
75) Fluoranthene	12.216	202	809684	1176.02	ng/ml	96
76) Benzidine	12.371	184	681648	2243.86	ng/ml	97
77) Pyrene	12.489	202	841786	1165.37	ng/ml	99
80) Butyl benzyl phthalate	13.441	149	329785	1003.16	ng/ml	94
81) Bis(2-ethylhexyl) adipate	13.596	129	338577	1072.07	ng/ml	99
82) 3,3-Dichlorobenzidine	14.516	252	426575	2734.39	ng/ml	99
83) Benz(a)anthracene	14.542	228	752129	1044.91	ng/ml	99
84) Chrysene	14.623	228	720234	1007.30	ng/ml	98
85) Bis(2-ethylhexyl) phth...	14.698	149	480829	987.75	ng/ml	99
87) Di-n-octyl phthalate	16.340	149	694669	1064.39	ng/ml	96
88) Benzo(b)fluoranthene	17.104	252	694257	1089.56	ng/ml	97
89) Benzo(k)fluoranthene	17.169	252	698672	1043.01	ng/ml	98
90) Benzo(b+k)fluoranthene	17.169	252	1436558	2125.51	ng/ml	98
91) Benzo(e)pyrene	17.752	252	673538	1069.90	ng/ml	99
92) Benzo(a)pyrene	17.875	252	611410	1167.88	ng/ml	98
93) Perylene	18.073	252	624883	1074.56	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	20.410	276	600346	1016.61	ng/ml	97
96) Dibenz(a,h)anthracene	20.474	278	566590	1002.72	ng/ml	98
97) Benzo(g,h,i)perylene	20.945	276	606404	1069.81	ng/ml	89

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202005.D
Acq On : 20 May 2020 10:44 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCV1
Misc : 1x, A210D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 08:50:01 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/21/20

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202006.D
Acq On : 20 May 2020 11:20 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 08:53:05 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.418	152	339256	2000.00	ng/ml	-0.01
21) Naphthalene-d8 (ISTD)	7.669	136	1333694	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.440	162	592934	2000.00	ng/ml	-0.01
64) Phenanthrene-d10 (ISTD)	10.953	188	1091996	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.558	240	904661	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.008	264	784905	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	20.399	292	602297	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	0.000	112	0	0.00	ng/ml	
5) Phenol-d6(Surr)	0.000	99	0	0.00	ng/ml	
19) Nitrobenzene-d5 (Surr)	6.963	82	210	0.88	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
67) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
79) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	3.931	79	96	N.D.		
6) Phenol	0.000		0	N.D.		
7) Aniline	0.000		0	N.D.		
8) Bis(2-chloroethyl) ether	0.000		0	N.D.		
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	0.000		0	N.D.		
12) Benzyl alcohol	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	6.723	107	50	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	0.000		0	N.D.		
16) N-Nitrosodi-n-propylamine	6.803	70	60	N.D.		
17) 3+4-Methylphenol	0.000		0	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	6.979	77	74	N.D.		
22) Isophorone	7.199	82	143	7.77	ng/ml	60
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202006.D
Acq On : 20 May 2020 11:20 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 08:53:05 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	0.000		0	N.D.		
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	0.000		0	N.D.		
30) 4-Chloroaniline	0.000		0	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	0.000		0	N.D.		
33) 2-Methylnaphthalene	0.000		0	N.D.		
34) 1-Methylnaphthalene	0.000		0	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	0.000		0	N.D.		
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	0.000		0	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	0.000		0	N.D.		
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	0.000		0	N.D.		
50) 3-Nitroaniline	9.440	138	87	N.D.		
51) Acenaphthene	9.440	153	104	N.D.		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	0.000		0	N.D.		
54) 2,4-Dinitrotoluene	9.643	165	136	35.24	ng/ml#	36
55) Dibenzofuran	0.000		0	N.D.		
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	9.889	149	63	N.D.		
59) 2,3,5-Trimethylnaphtha...	9.969	170	100	N.D.		
60) Fluorene	0.000		0	N.D.		
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	0.000		0	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	0.000		0	N.D.		
66) Azobenzene (1,2-DPH)	10.151	77	68	9.92	ng/ml#	48

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202006.D
Acq On : 20 May 2020 11:20 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 08:53:05 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

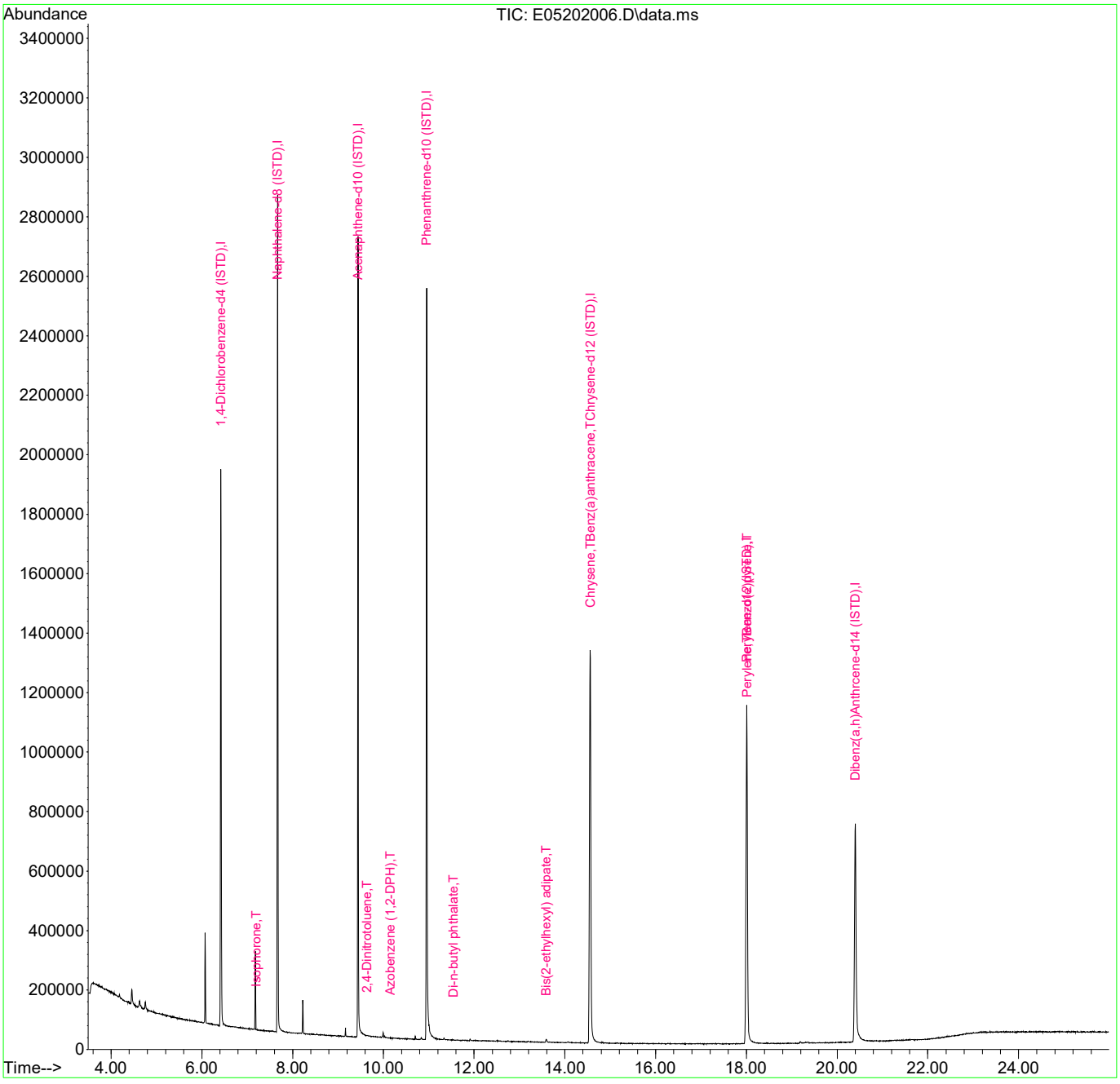
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	0.000		0	N.D.		
71) Phenanthrene	10.948	178	486	N.D.		
72) Anthracene	10.948	178	458	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butyl phthalate	11.542	149	63	27.14	ng/ml	78
75) Fluoranthene	0.000		0	N.D.		
76) Benzidine	0.000		0	N.D.		
77) Pyrene	0.000		0	N.D.		
80) Butyl benzyl phthalate	0.000		0	N.D.		
81) Bis(2-ethylhexyl) adipate	13.590	129	2957	58.84	ng/ml	94
82) 3,3-Dichlorobenzidine	0.000		0	N.D.		
83) Benz(a)anthracene	14.558	228	2161	4.28	ng/ml	67
84) Chrysene	14.558	228	2161	4.31	ng/ml	64
85) Bis(2-ethylhexyl) phth...	0.000		0	N.D.		
87) Di-n-octyl phthalate	0.000		0	N.D.		
88) Benzo(b)fluoranthene	0.000		0	N.D.		
89) Benzo(k)fluoranthene	0.000		0	N.D.		
90) Benzo(b+k)fluoranthene	0.000		0	N.D.		
91) Benzo(e)pyrene	18.014	252	2494	14.28	ng/ml#	31
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.014	252	2494	6.59	ng/ml	66
95) Indeno(1,2,3-cd)pyrene	20.399	276	286	N.D.		
96) Dibenz(a,h)anthracene	20.399	278	62	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202006.D
Acq On : 20 May 2020 11:20 am
Operator : JK/ AMS /DTH
Sample : 0E20035-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 08:53:05 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/21/20

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202007.D
Acq On : 20 May 2020 11:55 am
Operator : JK/ AMS /DTH
Sample : 0050699-BLK1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 08:53:41 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.423	152	330561	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.670	136	1298193	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.440	162	640178	2000.00	ng/ml	-0.01
64) Phenanthrene-d10 (ISTD)	10.954	188	1238737	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.564	240	1236324	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.014	264	1102203	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	20.399	292	928627	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.220	112	435684	2086.70	ng/ml	-0.01
5) Phenol-d6(Surr)	6.092	99	325845	1227.66	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	6.958	82	900367	3889.93	ng/ml	-0.01
40) 2-Fluorobiphenyl (Surr)	8.755	172	1625046	3385.52	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.248	330	207905	3711.03	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.692	244	2416139	4345.28	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.915	74	163	N.D.		
3) Pyridine	3.974	79	51	N.D.		
6) Phenol	6.102	94	2593	8.32	ng/ml#	1
7) Aniline	6.102	93	146	N.D.		
8) Bis(2-chloroethyl) ether	6.188	93	269	N.D.		
9) 2-Chlorophenol	6.242	128	343	N.D.		
10) 1,3-Dichlorobenzene	6.439	146	204	N.D.		
11) 1,4-Dichlorobenzene	6.439	146	204	N.D.		
12) Benzyl alcohol	6.573	108	1533	57.99	ng/ml	87
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	6.680	107	301	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	6.701	45	155	N.D.		
16) N-Nitrosodi-n-propylamine	6.787	70	306	N.D.		
17) 3+4-Methylphenol	6.814	107	92	9.52	ng/ml#	1
18) Hexachloroethane	6.931	117	92	N.D.		
20) Nitrobenzene	6.958	77	2701	11.22	ng/ml#	26
22) Isophorone	7.215	82	299	8.14	ng/ml	59
23) 2-Nitrophenol	7.311	139	107	27.54	ng/ml#	11
24) 2,4-Dimethylphenol	7.354	122	160	11.98	ng/ml#	76
25) Bis(2-chloroethoxy) me...	7.445	93	182	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202007.D
Acq On : 20 May 2020 11:55 am
Operator : JK/ AMS /DTH
Sample : 0050699-BLK1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 08:53:41 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.450	105	1639	994.83	ng/ml#	65
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	7.691	128	6494	9.08	ng/ml	89
30) 4-Chloroaniline	7.691	127	970	4.15	ng/ml#	51
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	8.253	107	585	70.61	ng/ml#	1
33) 2-Methylnaphthalene	8.386	142	1445	3.22	ng/ml	95
34) 1-Methylnaphthalene	8.488	142	744	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	8.680	196	66	31.94	ng/ml#	81
38) 2,4,5-Trichlorophenol	8.745	196	69	32.14	ng/ml#	75
39) 1,1'-Biphenyl	8.857	154	4920	9.02	ng/ml	96
41) 2-Chloronaphthalene	8.868	162	59	N.D.		
42) 2-Nitroaniline	8.943	138	53	33.03	ng/ml	77
43) 2,6-Dimethylnaphthalene	9.028	156	450	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	9.162	163	326	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	9.210	165	220	16.76	ng/ml	83
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	9.306	152	363	N.D.		
50) 3-Nitroaniline	9.445	138	114	N.D.		
51) Acenaphthene	9.472	153	648	N.D.		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	0.000		0	N.D.		
54) 2,4-Dinitrotoluene	9.654	165	152	35.28	ng/ml#	57
55) Dibenzofuran	9.659	168	392	N.D.		
56) 2,3,5,6-Tetrachlorophenol	9.756	232	144	48.17	ng/ml#	1
57) 2,3,4,6-Tetrachlorophenol	9.788	232	344	39.79	ng/ml#	67
58) Diethyl phthalate	9.873	149	2522	6.23	ng/ml	94
59) 2,3,5-Trimethylnaphtha...	9.852	170	115	N.D.		
60) Fluorene	9.996	166	396	N.D.		
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	9.970	138	196	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	10.114	169	186	9.20	ng/ml#	61
66) Azobenzene (1,2-DPH)	10.167	77	358	10.41	ng/ml#	1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202007.D
Acq On : 20 May 2020 11:55 am
Operator : JK/ AMS /DTH
Sample : 0050699-BLK1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 08:53:41 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

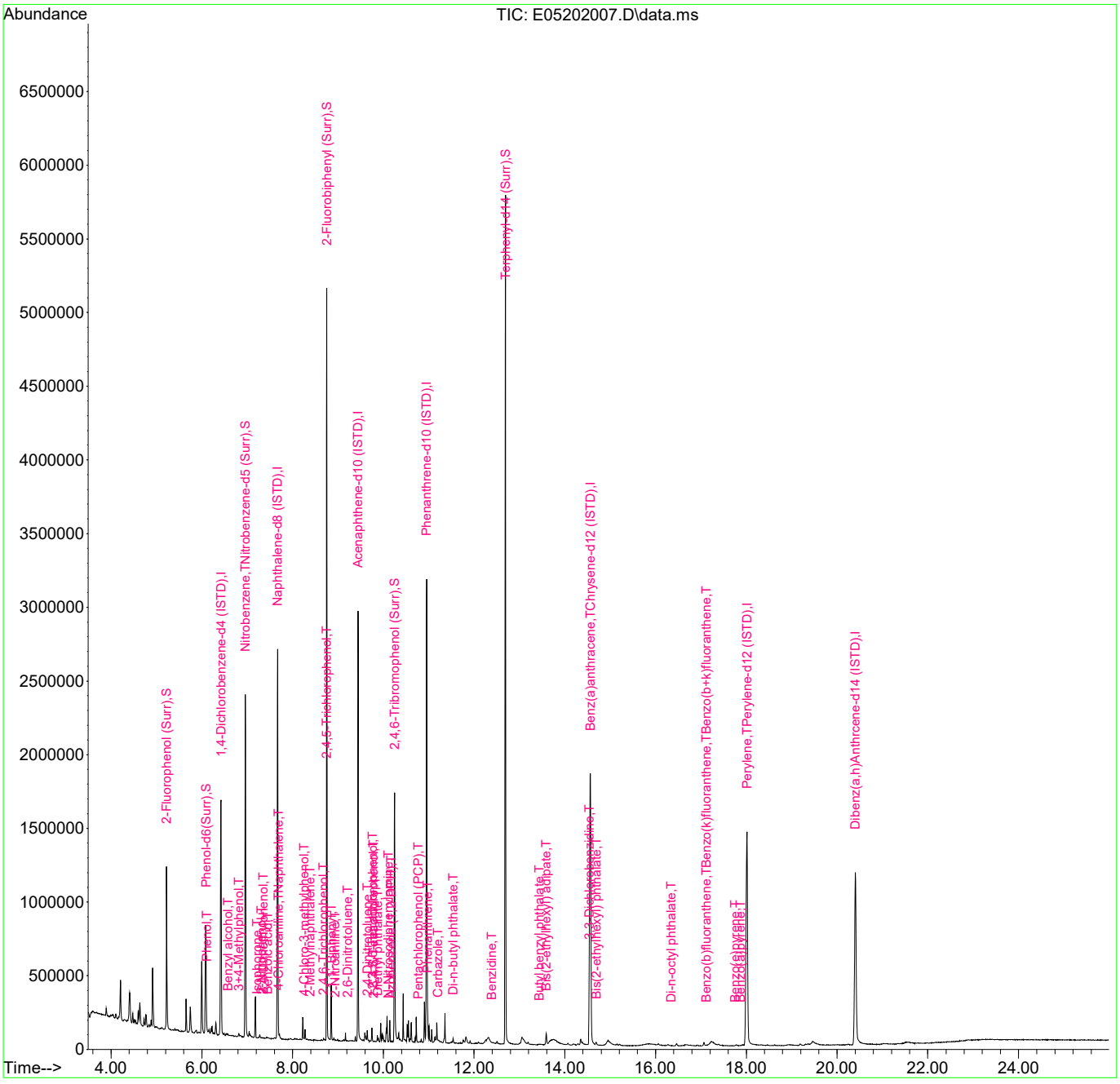
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.547	248	59	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	10.777	266	584	107.77	ng/ml	83
71) Phenanthrene	10.975	178	2751	3.79	ng/ml	78
72) Anthracene	11.029	178	411	N.D.		
73) Carbazole	11.205	167	543	9.33	ng/ml	88
74) Di-n-butyl phthalate	11.537	149	14186	45.27	ng/ml	99
75) Fluoranthene	12.221	202	1396	N.D.		
76) Benzidine	12.387	184	63	171.36	ng/ml#	3
77) Pyrene	12.494	202	1369	N.D.		
80) Butyl benzyl phthalate	13.435	149	1491	71.83	ng/ml	93
81) Bis(2-ethylhexyl) adipate	13.591	129	17914	104.37	ng/ml	96
82) 3,3-Dichlorobenzidine	14.537	252	101	48.51	ng/ml#	1
83) Benz(a)anthracene	14.564	228	4028	5.84	ng/ml	82
84) Chrysene	14.623	228	1583	N.D.		
85) Bis(2-ethylhexyl) phth...	14.692	149	7369	85.98	ng/ml	97
87) Di-n-octyl phthalate	16.340	149	175	84.38	ng/ml#	1
88) Benzo(b)fluoranthene	17.121	252	727	10.83	ng/ml	56
89) Benzo(k)fluoranthene	17.121	252	1208	12.85	ng/ml	55
90) Benzo(b+k)fluoranthene	17.121	252	1208	21.35	ng/ml	55
91) Benzo(e)pyrene	17.752	252	490	8.96	ng/ml	59
92) Benzo(a)pyrene	17.869	252	143	13.69	ng/ml#	24
93) Perylene	18.014	252	3749	7.05	ng/ml	62
95) Indeno(1,2,3-cd)pyrene	20.405	276	629	N.D.		
96) Dibenz(a,h)anthracene	20.394	278	385	N.D.		
97) Benzo(g,h,i)perylene	20.956	276	161	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202007.D
Acq On : 20 May 2020 11:55 am
Operator : JK/ AMS /DTH
Sample : 0050699-BLK1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 08:53:41 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/21/20

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202008.D
Acq On : 20 May 2020 12:31 pm
Operator : JK/ AMS /DTH
Sample : 0050699-BS1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 08:54:29 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.423	152	355614	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.669	136	1453007	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.445	162	729082	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	10.954	188	1338773	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.580	240	1298183	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.024	264	1214325	2000.00	ng/ml	-0.01
94) Dibenz(a,h)Anthrcene-d...	20.431	292	1047025	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.220	112	515358	2294.41	ng/ml	-0.01
5) Phenol-d6(Surr)	6.092	99	408442	1430.44	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	6.963	82	1041933	4184.41	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.755	172	1897118	3470.39	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.253	330	302157	4823.61	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.692	244	2466112	4223.81	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.947	74	185504	1088.50	ng/ml	90
3) Pyridine	3.995	79	5606	21.53	ng/ml#	1
6) Phenol	6.102	94	374085	1115.88	ng/ml	95
7) Aniline	6.124	93	3846	10.31	ng/ml#	1
8) Bis(2-chloroethyl) ether	6.172	93	834910	3012.47	ng/ml	94
9) 2-Chlorophenol	6.231	128	778241	3235.19	ng/ml	93
10) 1,3-Dichlorobenzene	6.370	146	590844	2080.48	ng/ml	98
11) 1,4-Dichlorobenzene	6.439	146	610191	2124.51	ng/ml	99
12) Benzyl alcohol	6.562	108	299803	2034.90	ng/ml	92
13) 1,2-Dichlorobenzene	6.589	146	597003	2194.10	ng/ml	99
14) 2-Methylphenol	6.675	107	535111	2904.98	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	6.685	45	1076465	2983.50	ng/ml	89
16) N-Nitrosodi-n-propylamine	6.819	70	636509	3722.33	ng/ml	98
17) 3+4-Methylphenol	6.824	107	621392	2503.34	ng/ml	98
18) Hexachloroethane	6.910	117	211842	2019.51	ng/ml	96
20) Nitrobenzene	6.985	77	847717	3272.02	ng/ml	96
22) Isophorone	7.215	82	1629321	3241.86	ng/ml	97
23) 2-Nitrophenol	7.295	139	447906	3343.80	ng/ml	92
24) 2,4-Dimethylphenol	7.343	122	485720	2571.46	ng/ml	97
25) Bis(2-chloroethoxy) me...	7.423	93	1024347	3128.10	ng/ml	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202008.D
Acq On : 20 May 2020 12:31 pm
Operator : JK/ AMS /DTH
Sample : 0050699-BS1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 08:54:29 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.461	105	254521	3788.17	ng/ml	96
27) 2,4-Dichlorophenol	7.541	162	624279	3507.51	ng/ml	97
28) 1,2,4-Trichlorobenzene	7.616	180	522482	2368.07	ng/ml	99
29) Naphthalene	7.691	128	2025006	2530.28	ng/ml	98
30) 4-Chloroaniline	7.750	127	41802	159.68	ng/ml	96
31) Hexachlorobutadiene	7.819	225	241171	2194.69	ng/ml	99
32) 4-Chloro-3-methylphenol	8.242	107	667146	3675.15	ng/ml	98
33) 2-Methylnaphthalene	8.386	142	1385374	2755.68	ng/ml	99
34) 1-Methylnaphthalene	8.488	142	1326221	2819.26	ng/ml	99
36) Hexachlorocyclopentadiene	8.552	237	205813	2076.62	ng/ml	97
37) 2,4,6-Trichlorophenol	8.680	196	456670	3707.24	ng/ml	100
38) 2,4,5-Trichlorophenol	8.718	196	479784	3973.40	ng/ml	99
39) 1,1'-Biphenyl	8.857	154	1723410	2775.60	ng/ml	99
41) 2-Chloronaphthalene	8.878	162	1289619	2734.48	ng/ml	98
42) 2-Nitroaniline	8.991	138	554433	3699.34	ng/ml	96
43) 2,6-Dimethylnaphthalene	9.017	156	1234694	2734.25	ng/ml	97
44) 1,4-Dinitrobenzene	9.124	168	266959	3795.13	ng/ml	92
45) Dimethyl phthalate	9.178	163	1736253	3680.57	ng/ml	100
46) 1,3-Dinitrobenzene	9.210	168	301204	3750.81	ng/ml	92
47) 2,6-Dinitrotoluene	9.237	165	419703	3616.89	ng/ml	97
48) 1,2-Dinitrobenzene	9.295	168	194688	3660.41	ng/ml#	72
49) Acenaphthylene	9.301	152	2163567	3103.06	ng/ml	100
50) 3-Nitroaniline	9.408	138	245722	2073.69	ng/ml	96
51) Acenaphthene	9.477	153	1452744	2927.15	ng/ml	99
52) 2,4-Dinitrophenol	9.515	184	201355	3998.16	ng/ml	94
53) 4-Nitrophenol	9.595	139	106606	1451.53	ng/ml	97
54) 2,4-Dinitrotoluene	9.648	165	548495	3783.10	ng/ml	82
55) Dibenzofuran	9.654	168	1984488	3171.96	ng/ml	99
56) 2,3,5,6-Tetrachlorophenol	9.745	232	386499	4001.07	ng/ml	100
57) 2,3,4,6-Tetrachlorophenol	9.788	232	399223	4124.41	ng/ml	98
58) Diethyl phthalate	9.884	149	1728254	3749.65	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	9.868	170	1274676	3219.36	ng/ml	99
60) Fluorene	10.001	166	1677904	3364.89	ng/ml	99
61) 4-Chlorophenyl phenyl ...	9.996	204	773224	3481.68	ng/ml	98
62) 4-Nitroaniline	10.034	138	419830	3586.11	ng/ml	94
63) 4,6-Dinitro-2-methylph...	10.066	198	308972	3920.10	ng/ml	96
65) N-Nitrosodiphenylamine	10.124	169	1452993	3166.91	ng/ml	98
66) Azobenzene (1,2-DPH)	10.157	77	1733988	2902.78	ng/ml	90

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202008.D
Acq On : 20 May 2020 12:31 pm
Operator : JK/ AMS /DTH
Sample : 0050699-BS1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 08:54:29 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

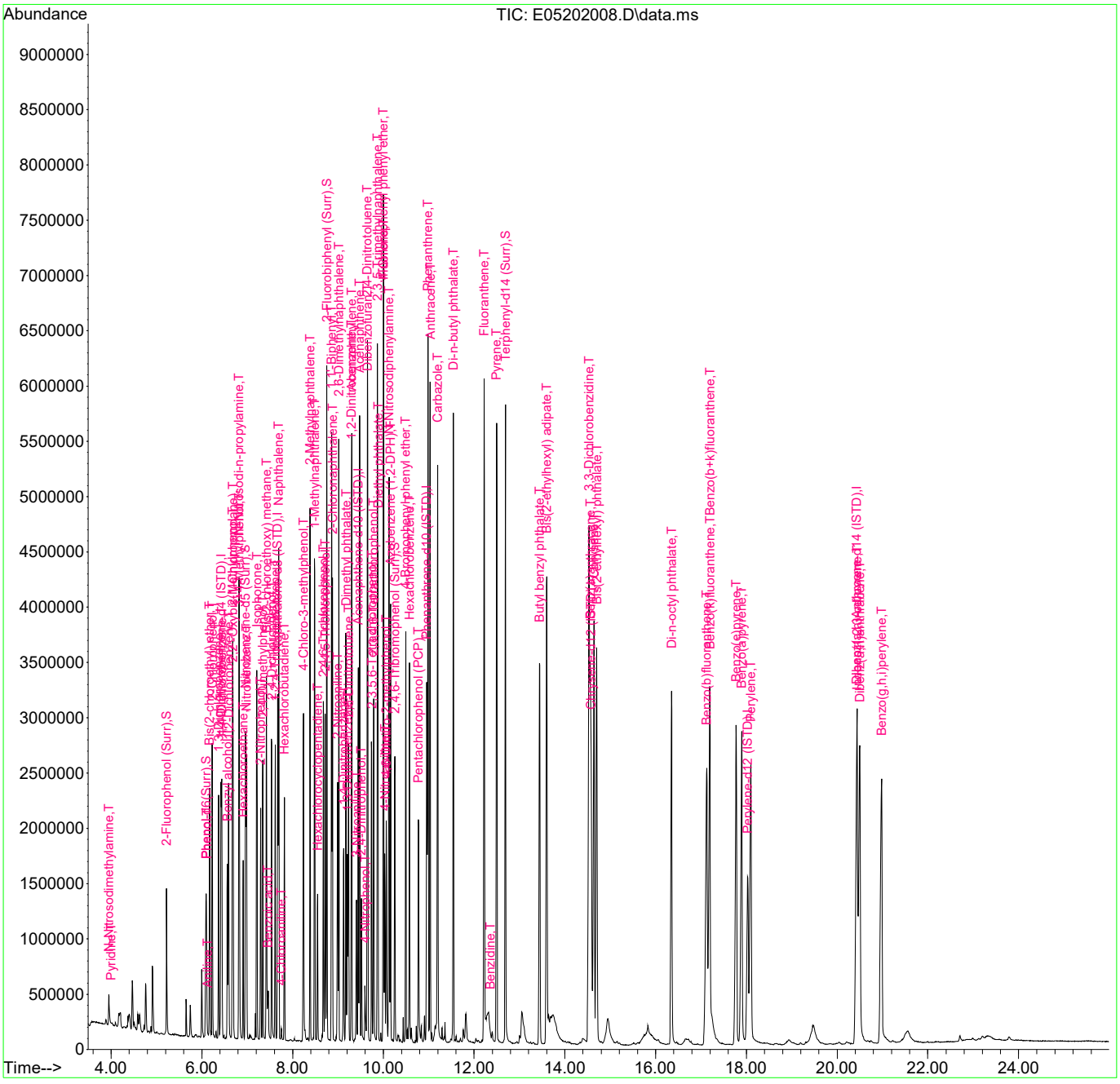
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.494	248	460978	3504.40	ng/ml	98
69) Hexachlorobenzene	10.574	284	495110	3317.25	ng/ml	97
70) Pentachlorophenol (PCP)	10.777	266	273336	4077.27	ng/ml	98
71) Phenanthrene	10.980	178	2425949	3092.12	ng/ml	99
72) Anthracene	11.034	178	2448186	3369.45	ng/ml	100
73) Carbazole	11.200	167	2342598	3475.04	ng/ml	99
74) Di-n-butyl phthalate	11.542	149	2955484	3586.04	ng/ml	100
75) Fluoranthene	12.221	202	2719573	3820.59	ng/ml	96
76) Benzidine	12.360	184	158	171.64	ng/ml#	1
77) Pyrene	12.494	202	2764358	3701.56	ng/ml	99
80) Butyl benzyl phthalate	13.446	149	1287215	3428.85	ng/ml	96
81) Bis(2-ethylhexyl) adipate	13.601	129	1199108	3365.46	ng/ml	99
82) 3,3-Dichlorobenzidine	14.532	252	1449165	7825.32	ng/ml	99
83) Benz(a)anthracene	14.559	228	2585872	3568.28	ng/ml	99
84) Chrysene	14.639	228	2509553	3486.17	ng/ml	100
85) Bis(2-ethylhexyl) phth...	14.703	149	1836382	3362.56	ng/ml	100
87) Di-n-octyl phthalate	16.350	149	3102008	3651.12	ng/ml	97
88) Benzo(b)fluoranthene	17.126	252	2622739	3718.99	ng/ml	99
89) Benzo(k)fluoranthene	17.195	252	2398828	3410.00	ng/ml	99
90) Benzo(b+k)fluoranthene	17.195	252	5150819	7087.28	ng/ml	99
91) Benzo(e)pyrene	17.773	252	2401767	3568.26	ng/ml	99
92) Benzo(a)pyrene	17.896	252	2218342	3597.42	ng/ml	99
93) Perylene	18.099	252	1986572	3392.67	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.442	276	2273217	3642.41	ng/ml	98
96) Dibenz(a,h)anthracene	20.501	278	2119087	3548.61	ng/ml	96
97) Benzo(g,h,i)perylene	20.982	276	2218946	3704.15	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202008.D
Acq On : 20 May 2020 12:31 pm
Operator : JK/ AMS /DTH
Sample : 0050699-BS1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 08:54:29 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/21/20

Q19

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202009.D
Acq On : 20 May 2020 1:06 pm
Operator : JK/ AMS /DTH
Sample : 0050699-BSD1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 08:55:12 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.423	152	321185	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.669	136	1318808	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.445	162	695229	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	10.959	188	1328532	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.585	240	1311831	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.035	264	1229895	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.437	292	1046477	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.220	112	497984	2454.71	ng/ml	-0.01
5) Phenol-d6(Surr)	6.092	99	403246	1563.63	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	6.963	82	936339	4163.43	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.755	172	1776402	3407.80	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.253	330	298570	4805.64	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.692	244	2478126	4200.23	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.952	74	191696	1245.40	ng/ml	93
3) Pyridine	3.952	79	143	N.D.		
6) Phenol	6.102	94	370119	1222.40	ng/ml	94
7) Aniline	6.124	93	6145	18.25	ng/ml#	1
8) Bis(2-chloroethyl) ether	6.172	93	774584	3094.39	ng/ml	94
9) 2-Chlorophenol	6.231	128	727645	3349.11	ng/ml	94
10) 1,3-Dichlorobenzene	6.370	146	535377	2087.25	ng/ml	98
11) 1,4-Dichlorobenzene	6.439	146	552789	2130.96	ng/ml	99
12) Benzyl alcohol	6.562	108	293922	2199.90	ng/ml	94
13) 1,2-Dichlorobenzene	6.589	146	541265	2202.49	ng/ml	99
14) 2-Methylphenol	6.675	107	511681	3075.54	ng/ml	99
15) 2,2'-Oxybis(1-Chloropr...	6.685	45	998054	3062.69	ng/ml	90
16) N-Nitrosodi-n-propylamine	6.819	70	601285	3893.27	ng/ml	98
17) 3+4-Methylphenol	6.824	107	599637	2676.24	ng/ml	98
18) Hexachloroethane	6.910	117	190383	2009.49	ng/ml	97
20) Nitrobenzene	6.985	77	787991	3367.52	ng/ml	97
22) Isophorone	7.215	82	1543446	3376.38	ng/ml	96
23) 2-Nitrophenol	7.295	139	417546	3426.99	ng/ml	92
24) 2,4-Dimethylphenol	7.343	122	524470	3020.22	ng/ml	98
25) Bis(2-chloroethoxy) me...	7.423	93	953857	3209.25	ng/ml	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202009.D
Acq On : 20 May 2020 1:06 pm
Operator : JK/ AMS /DTH
Sample : 0050699-BSD1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 08:55:12 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.466	105	282187	4309.12	ng/ml	94
27) 2,4-Dichlorophenol	7.541	162	591801	3642.67	ng/ml	98
28) 1,2,4-Trichlorobenzene	7.616	180	470504	2349.49	ng/ml	99
29) Naphthalene	7.691	128	1857993	2557.83	ng/ml	98
30) 4-Chloroaniline	7.750	127	47825	201.27	ng/ml	93
31) Hexachlorobutadiene	7.819	225	214037	2145.97	ng/ml	100
32) 4-Chloro-3-methylphenol	8.242	107	642473	3873.82	ng/ml	97
33) 2-Methylnaphthalene	8.386	142	1281355	2808.13	ng/ml	99
34) 1-Methylnaphthalene	8.488	142	1245169	2916.31	ng/ml	99
36) Hexachlorocyclopentadiene	8.552	237	181287	1921.11	ng/ml	98
37) 2,4,6-Trichlorophenol	8.680	196	446289	3789.34	ng/ml	100
38) 2,4,5-Trichlorophenol	8.718	196	465750	4033.41	ng/ml	100
39) 1,1'-Biphenyl	8.857	154	1638100	2766.67	ng/ml	99
41) 2-Chloronaphthalene	8.878	162	1214004	2699.49	ng/ml	98
42) 2-Nitroaniline	8.991	138	540352	3770.64	ng/ml	95
43) 2,6-Dimethylnaphthalene	9.017	156	1174405	2727.38	ng/ml	98
44) 1,4-Dinitrobenzene	9.124	168	265226	3929.57	ng/ml	88
45) Dimethyl phthalate	9.178	163	1717981	3819.17	ng/ml	99
46) 1,3-Dinitrobenzene	9.210	168	298136	3876.96	ng/ml	91
47) 2,6-Dinitrotoluene	9.237	165	413890	3729.07	ng/ml	97
48) 1,2-Dinitrobenzene	9.295	168	195836	3861.28	ng/ml	74
49) Acenaphthylene	9.301	152	2118383	3186.20	ng/ml	100
50) 3-Nitroaniline	9.408	138	254048	2248.35	ng/ml	95
51) Acenaphthene	9.477	153	1401390	2961.17	ng/ml	100
52) 2,4-Dinitrophenol	9.515	184	225196	4448.25	ng/ml	93
53) 4-Nitrophenol	9.595	139	121266	1697.42	ng/ml	97
54) 2,4-Dinitrotoluene	9.648	165	554564	3996.37	ng/ml	81
55) Dibenzofuran	9.654	168	1955283	3277.46	ng/ml	98
56) 2,3,5,6-Tetrachlorophenol	9.745	232	387744	4163.45	ng/ml	100
57) 2,3,4,6-Tetrachlorophenol	9.787	232	400836	4310.42	ng/ml	98
58) Diethyl phthalate	9.884	149	1767910	4022.46	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	9.868	170	1252449	3317.25	ng/ml	99
60) Fluorene	10.001	166	1662244	3495.80	ng/ml	99
61) 4-Chlorophenyl phenyl ...	9.996	204	767002	3621.84	ng/ml	96
62) 4-Nitroaniline	10.039	138	430105	3852.77	ng/ml	97
63) 4,6-Dinitro-2-methylph...	10.071	198	333178	4339.65	ng/ml	99
65) N-Nitrosodiphenylamine	10.124	169	1484862	3261.94	ng/ml	100
66) Azobenzene (1,2-DPH)	10.162	77	1744670	2944.43	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202009.D
Acq On : 20 May 2020 1:06 pm
Operator : JK/ AMS /DTH
Sample : 0050699-BSD1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 08:55:12 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

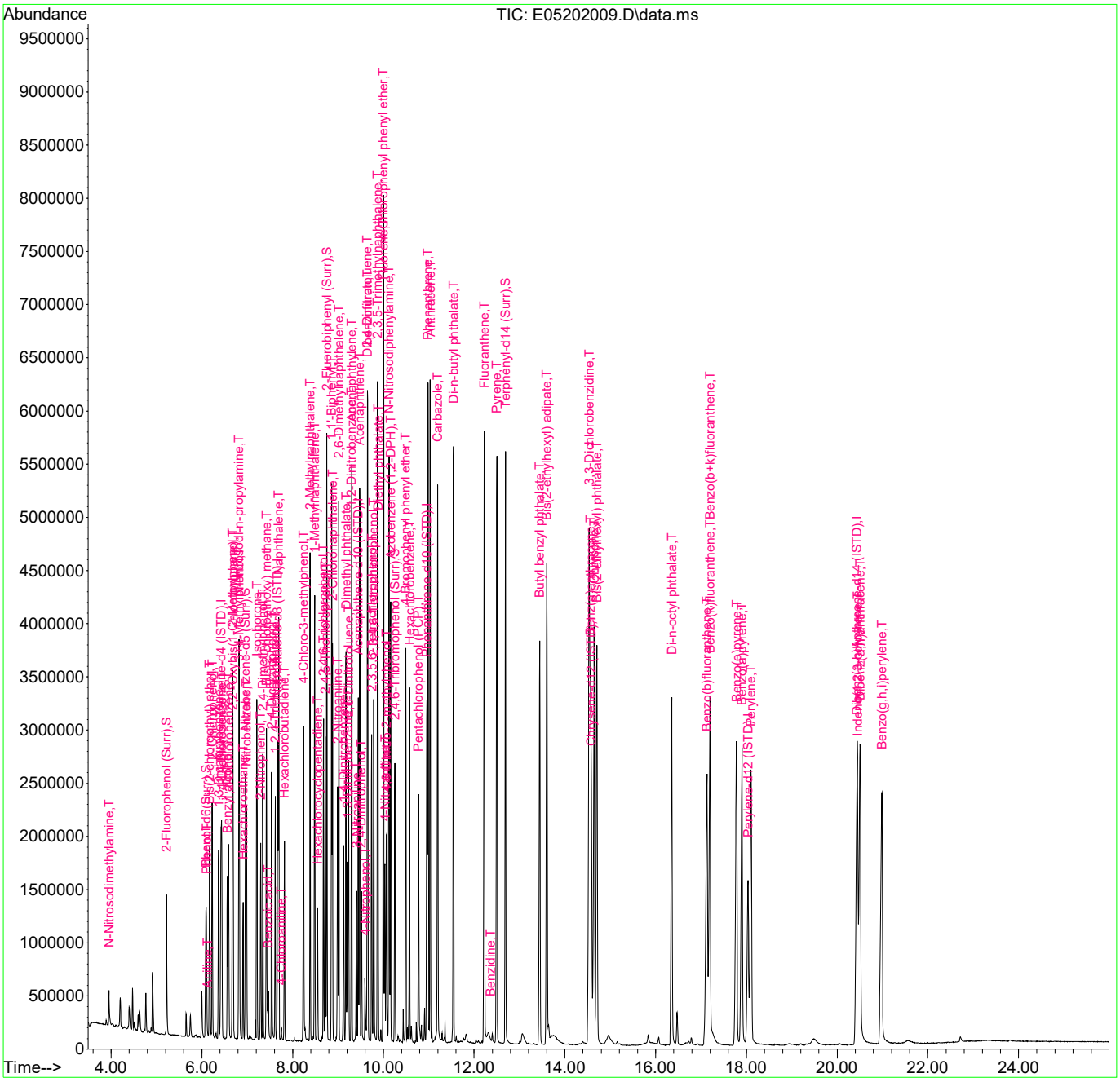
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.494	248	469108	3593.69	ng/ml	99
69) Hexachlorobenzene	10.579	284	507194	3424.41	ng/ml	99
70) Pentachlorophenol (PCP)	10.777	266	289667	4274.87	ng/ml	99
71) Phenanthrene	10.980	178	2496708	3206.84	ng/ml	99
72) Anthracene	11.034	178	2555797	3544.67	ng/ml	99
73) Carbazole	11.200	167	2420711	3617.33	ng/ml	98
74) Di-n-butyl phthalate	11.547	149	3090519	3780.01	ng/ml	100
75) Fluoranthene	12.226	202	2807951	3975.16	ng/ml	98
76) Benzidine	12.366	184	133	171.57	ng/ml#	24
77) Pyrene	12.499	202	2846809	3841.35	ng/ml	99
80) Butyl benzyl phthalate	13.446	149	1340854	3522.68	ng/ml	94
81) Bis(2-ethylhexyl) adipate	13.601	129	1257213	3476.70	ng/ml	99
82) 3,3-Dichlorobenzidine	14.537	252	1457387	7794.69	ng/ml	99
83) Benz(a)anthracene	14.558	228	2657465	3628.92	ng/ml	100
84) Chrysene	14.644	228	2572381	3536.27	ng/ml	100
85) Bis(2-ethylhexyl) phth...	14.708	149	1904583	3443.17	ng/ml	99
87) Di-n-octyl phthalate	16.356	149	3232803	3733.58	ng/ml	98
88) Benzo(b)fluoranthene	17.131	252	2554190	3591.04	ng/ml	98
89) Benzo(k)fluoranthene	17.195	252	2551840	3572.68	ng/ml	98
90) Benzo(b+k)fluoranthene	17.195	252	5219425	7090.49	ng/ml	98
91) Benzo(e)pyrene	17.784	252	2398980	3522.53	ng/ml	99
92) Benzo(a)pyrene	17.901	252	2232183	3578.06	ng/ml	98
93) Perylene	18.099	252	2057451	3469.23	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.453	276	2268717	3637.11	ng/ml	97
96) Dibenz(a,h)anthracene	20.506	278	2221449	3721.97	ng/ml	97
97) Benzo(g,h,i)perylene	20.988	276	2237722	3737.45	ng/ml	94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202009.D
Acq On : 20 May 2020 1:06 pm
Operator : JK/ AMS /DTH
Sample : 0050699-BSD1
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 08:55:12 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

AMS 5/21/20

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:58:33 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.423	152	343343	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.670	136	1412457	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.440	162	693544	2000.00	ng/ml	-0.01
64) Phenanthrene-d10 (ISTD)	10.954	188	1310823	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.564	240	1299563	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.014	264	1196677	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	20.405	292	982727	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.220	112	160770	741.34	ng/ml	-0.01
5) Phenol-d6(Surr)	6.092	99	140064	508.06	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	6.958	82	352652	1466.87	ng/ml	-0.01
40) 2-Fluorobiphenyl (Surr)	8.755	172	693467	1333.56	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.248	330	211908	3588.42	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.692	244	1686347	2885.21	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.936	74	134	N.D.		
3) Pyridine	3.968	79	139	N.D.		
6) Phenol	6.102	94	9541	29.48	ng/ml	76
7) Aniline	6.092	93	464	N.D.		
8) Bis(2-chloroethyl) ether	6.193	93	161	N.D.		
9) 2-Chlorophenol	6.236	128	291	N.D.		
10) 1,3-Dichlorobenzene	6.439	146	191	N.D.		
11) 1,4-Dichlorobenzene	6.439	146	200	N.D.		
12) Benzyl alcohol	6.573	108	2148	61.92	ng/ml	96
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	6.680	107	623	3.50	ng/ml	85
15) 2,2'-Oxybis(1-Chloropr...	6.691	45	300	N.D.		
16) N-Nitrosodi-n-propylamine	6.798	70	767	4.65	ng/ml	61
17) 3+4-Methylphenol	6.814	107	75	9.44	ng/ml#	1
18) Hexachloroethane	6.937	117	238	N.D.		
20) Nitrobenzene	6.958	77	2189	8.75	ng/ml#	24
22) Isophorone	7.210	82	730	9.01	ng/ml	80
23) 2-Nitrophenol	7.306	139	322	29.24	ng/ml#	39
24) 2,4-Dimethylphenol	7.354	122	681	14.94	ng/ml	96
25) Bis(2-chloroethoxy) me...	7.423	93	409	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:58:33 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.429	105	9118	1094.09	ng/ml	83
27) 2,4-Dichlorophenol	7.557	162	226	10.49	ng/ml#	36
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	7.691	128	19060	24.50	ng/ml	99
30) 4-Chloroaniline	7.686	127	2779	10.92	ng/ml#	38
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	8.242	107	1804	77.85	ng/ml#	1
33) 2-Methylnaphthalene	8.386	142	2076	4.25	ng/ml	97
34) 1-Methylnaphthalene	8.488	142	1709	3.74	ng/ml	92
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	8.680	196	250	33.64	ng/ml#	47
38) 2,4,5-Trichlorophenol	8.734	196	423	35.82	ng/ml#	62
39) 1,1'-Biphenyl	8.852	154	2653	4.49	ng/ml	95
41) 2-Chloronaphthalene	8.873	162	120	N.D.		
42) 2-Nitroaniline	8.991	138	154	33.80	ng/ml#	1
43) 2,6-Dimethylnaphthalene	9.023	156	613	N.D.		
44) 1,4-Dinitrobenzene	9.124	168	55	35.55	ng/ml#	1
45) Dimethyl phthalate	9.162	163	1417	3.16	ng/ml	68
46) 1,3-Dinitrobenzene	9.199	168	204	33.78	ng/ml#	1
47) 2,6-Dinitrotoluene	9.210	165	1774	32.05	ng/ml#	53
48) 1,2-Dinitrobenzene	9.301	168	63	N.D.		
49) Acenaphthylene	9.295	152	956	N.D.		
50) 3-Nitroaniline	9.413	138	306	2.71	ng/ml#	13
51) Acenaphthene	9.477	153	4133	8.75	ng/ml#	49
52) 2,4-Dinitrophenol	9.504	184	178	214.95	ng/ml#	1
53) 4-Nitrophenol	9.590	139	1023	87.27	ng/ml#	50
54) 2,4-Dinitrotoluene	9.616	165	253	35.95	ng/ml	88
55) Dibenzofuran	9.649	168	922	N.D.		
56) 2,3,5,6-Tetrachlorophenol	9.750	232	313	50.45	ng/ml#	58
57) 2,3,4,6-Tetrachlorophenol	9.788	232	495	41.35	ng/ml#	1
58) Diethyl phthalate	9.873	149	12093	27.58	ng/ml	97
59) 2,3,5-Trimethylnaphtha...	9.862	170	366	N.D.		
60) Fluorene	9.996	166	1065	N.D.		
61) 4-Chlorophenyl phenyl ...	9.996	204	89	N.D.		
62) 4-Nitroaniline	10.018	138	62	N.D.		
63) 4,6-Dinitro-2-methylph...	10.076	198	68	151.60	ng/ml#	1
65) N-Nitrosodiphenylamine	10.114	169	664	10.23	ng/ml#	60
66) Azobenzene (1,2-DPH)	10.167	77	134984	233.05	ng/ml#	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:58:33 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

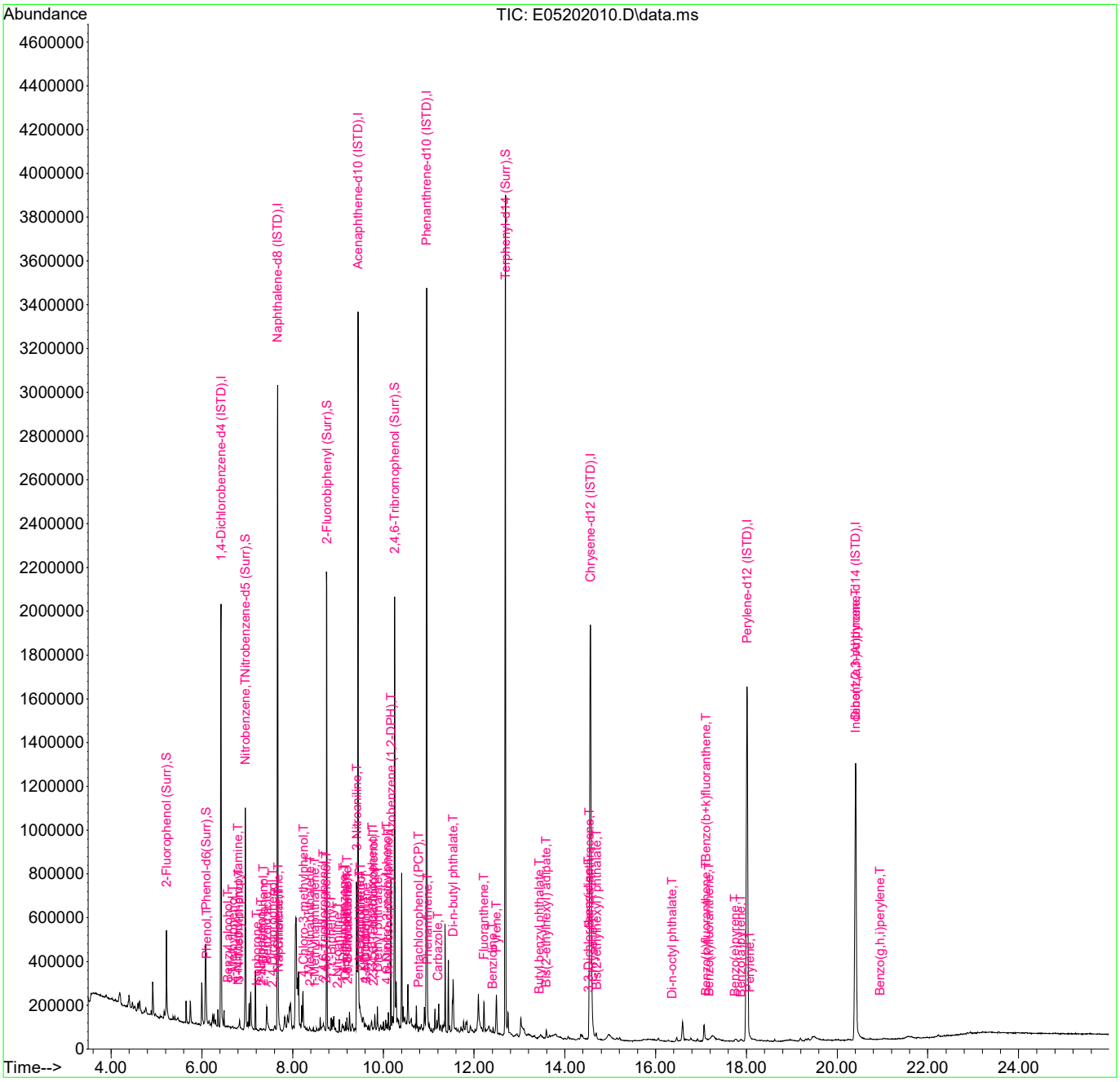
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.499	248	102	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	10.782	266	501	105.09	ng/ml	94
71) Phenanthrene	10.975	178	12101	15.75	ng/ml	99
72) Anthracene	11.028	178	1689	N.D.		
73) Carbazole	11.205	167	1499	10.74	ng/ml	76
74) Di-n-butyl phthalate	11.537	149	90822	137.35	ng/ml	99
75) Fluoranthene	12.216	202	66167	94.94	ng/ml	95
76) Benzidine	12.408	184	90	171.44	ng/ml#	1
77) Pyrene	12.489	202	84708	115.85	ng/ml	99
80) Butyl benzyl phthalate	13.435	149	1953	72.95	ng/ml	98
81) Bis(2-ethylhexyl) adipate	13.590	129	9313	74.68	ng/ml	95
82) 3,3-Dichlorobenzidine	14.521	252	482	51.09	ng/ml	82
83) Benz(a)anthracene	14.537	228	18971	26.15	ng/ml	91
84) Chrysene	14.617	228	19431	26.96	ng/ml	99
85) Bis(2-ethylhexyl) phth...	14.698	149	12894	95.92	ng/ml	99
87) Di-n-octyl phthalate	16.356	149	358	84.64	ng/ml#	1
88) Benzo(b)fluoranthene	17.115	252	11277	27.91	ng/ml	96
89) Benzo(k)fluoranthene	17.174	252	3232m	15.75	ng/ml	
90) Benzo(b+k)fluoranthene	17.115	252	15445	42.78	ng/ml	95
91) Benzo(e)pyrene	17.746	252	6594	18.82	ng/ml	92
92) Benzo(a)pyrene	17.880	252	4302	22.23	ng/ml	95
93) Perylene	18.073	252	1811	3.14	ng/ml	91
95) Indeno(1,2,3-cd)pyrene	20.410	276	3041	5.19	ng/ml	46
96) Dibenz(a,h)anthracene	20.469	278	417	N.D.		
97) Benzo(g,h,i)perylene	20.945	276	2665	4.74	ng/ml	59

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

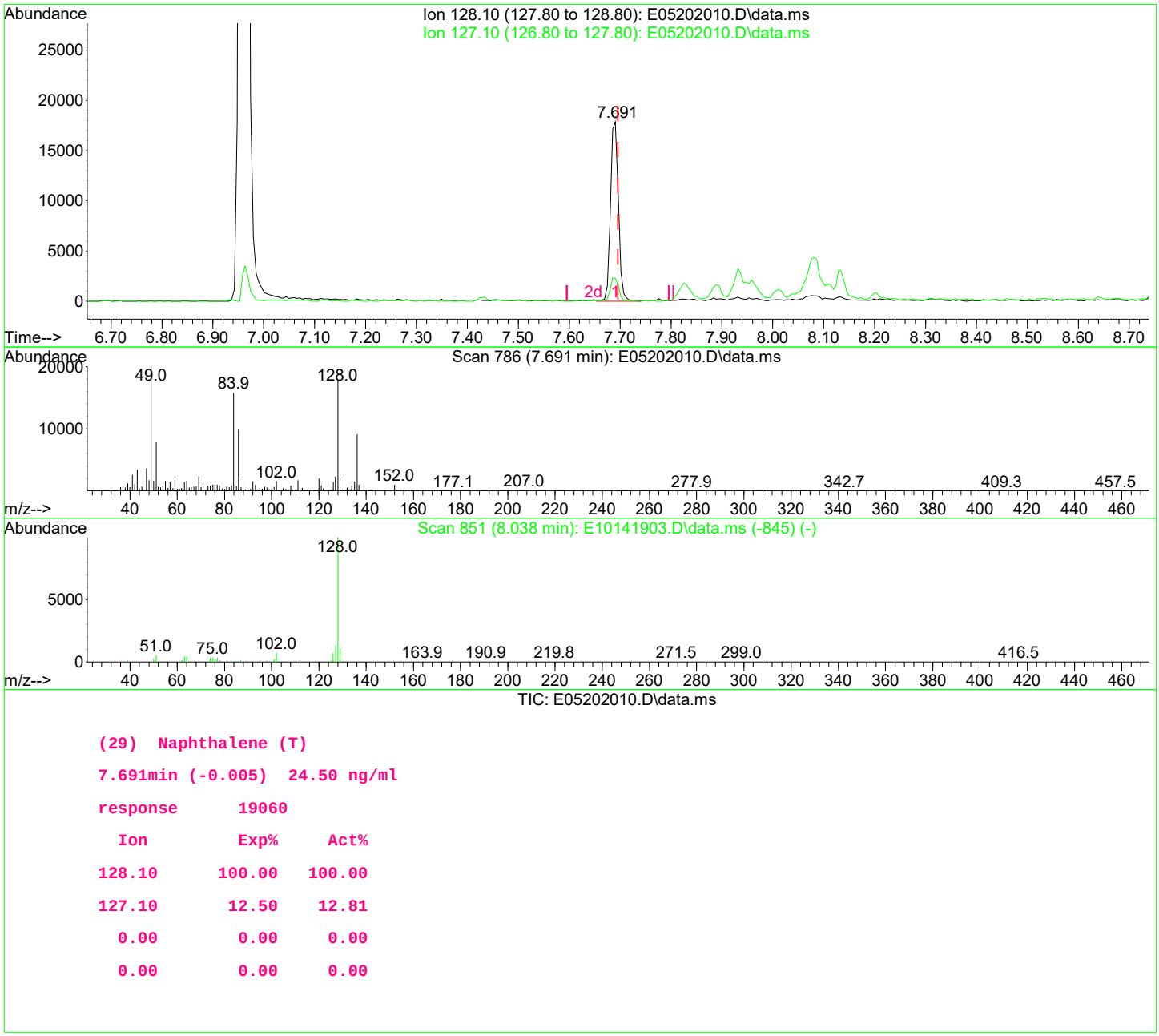
Quant Time: May 21 08:58:33 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:57:14 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



TIC: E05202010.D\data.ms

(29) Naphthalene (T)

7.691min (-0.005) 24.50 ng/ml

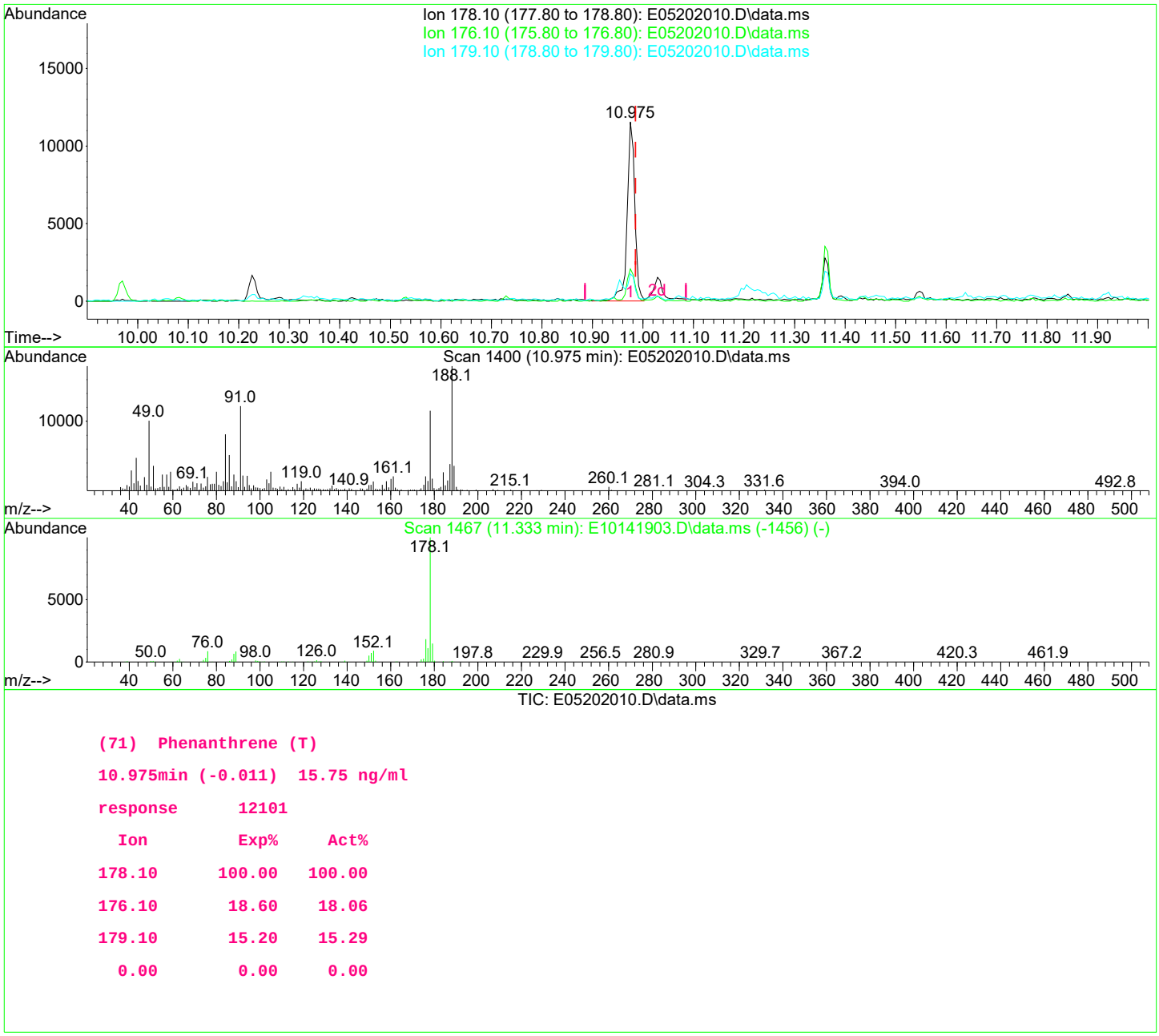
response 19060

Ion	Exp%	Act%
128.10	100.00	100.00
127.10	12.50	12.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:57:14 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



TIC: E05202010.D\data.ms

(71) Phenanthrene (T)

10.975min (-0.011) 15.75 ng/ml

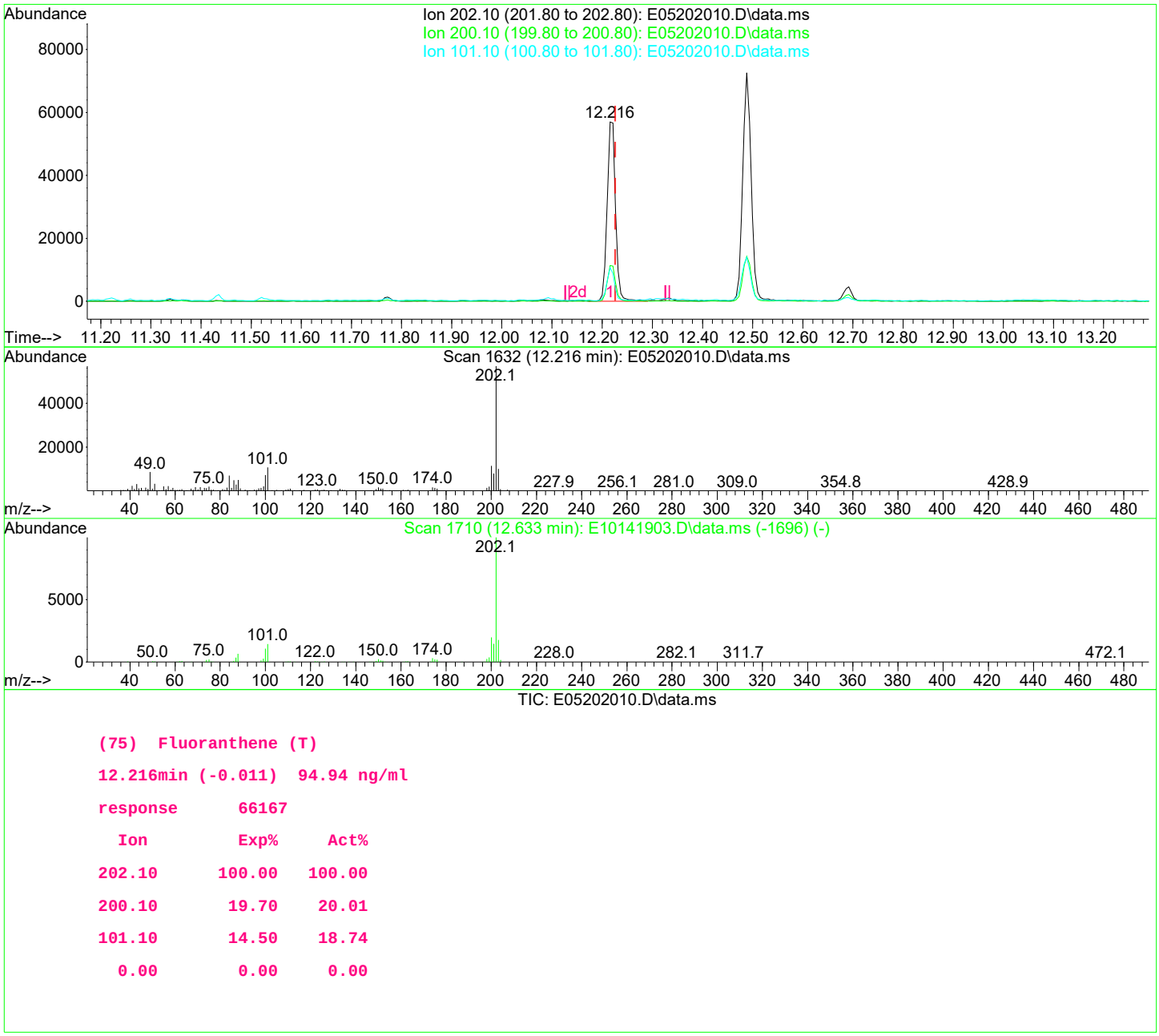
response 12101

Ion	Exp%	Act%
178.10	100.00	100.00
176.10	18.60	18.06
179.10	15.20	15.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:57:14 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



TIC: E05202010.D\data.ms

(75) Fluoranthene (T)

12.216min (-0.011) 94.94 ng/ml

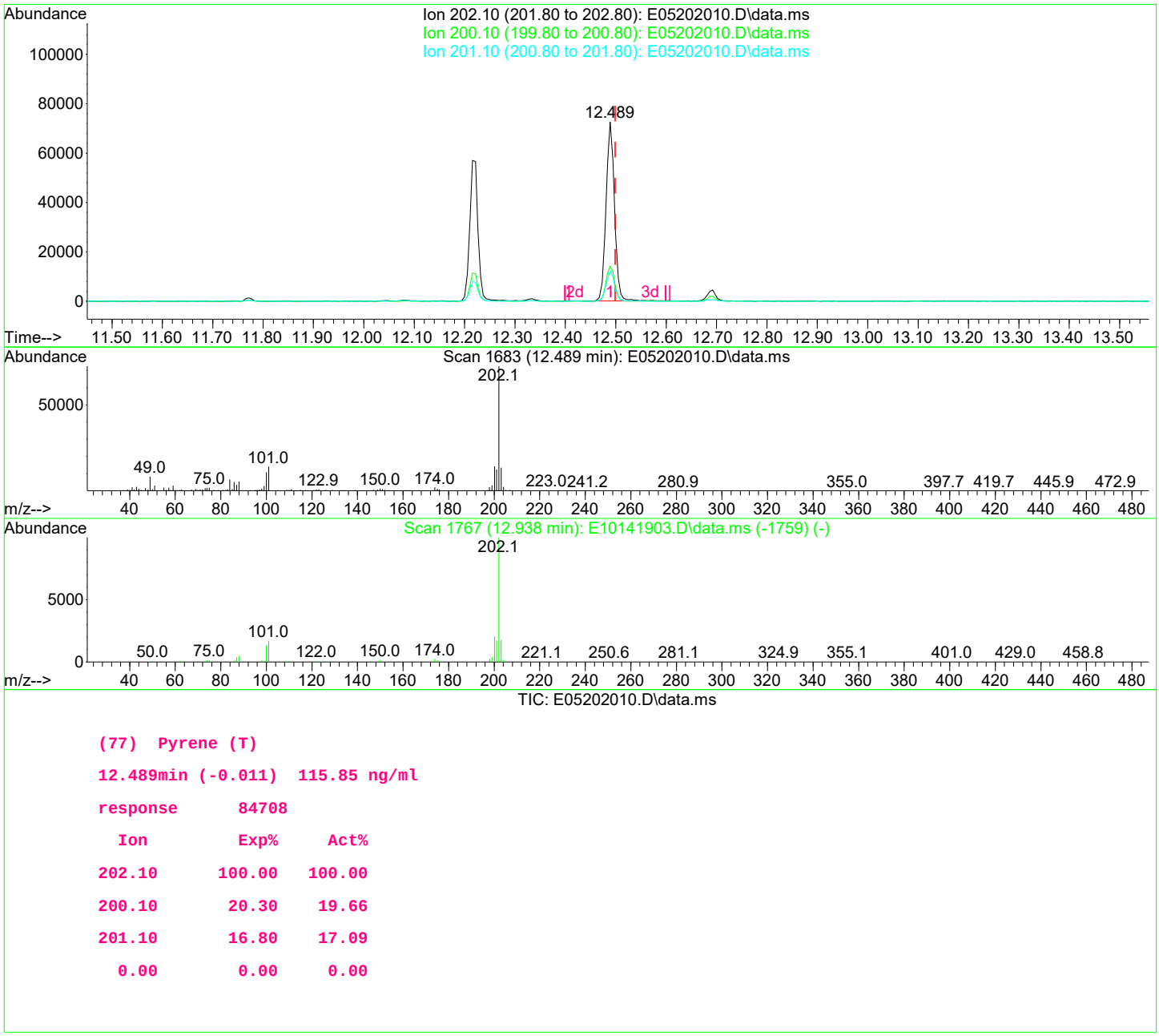
response 66167

Ion	Exp%	Act%
202.10	100.00	100.00
200.10	19.70	20.01
101.10	14.50	18.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:57:14 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



TIC: E05202010.D\data.ms

(77) Pyrene (T)

12.489min (-0.011) 115.85 ng/ml

response 84708

Ion	Exp%	Act%
202.10	100.00	100.00
200.10	20.30	19.66
201.10	16.80	17.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:57:14 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



TIC: E05202010.D\data.ms

(83) Benz(a)anthracene (T)

14.537min (-0.021) 26.15 ng/ml

response 18971

Ion	Exp%	Act%
228.10	100.00	100.00
229.10	19.60	19.31
226.10	25.90	33.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:57:14 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



TIC: E05202010.D\data.ms

(84) Chrysene (T)

14.617min (-0.021) 26.96 ng/ml

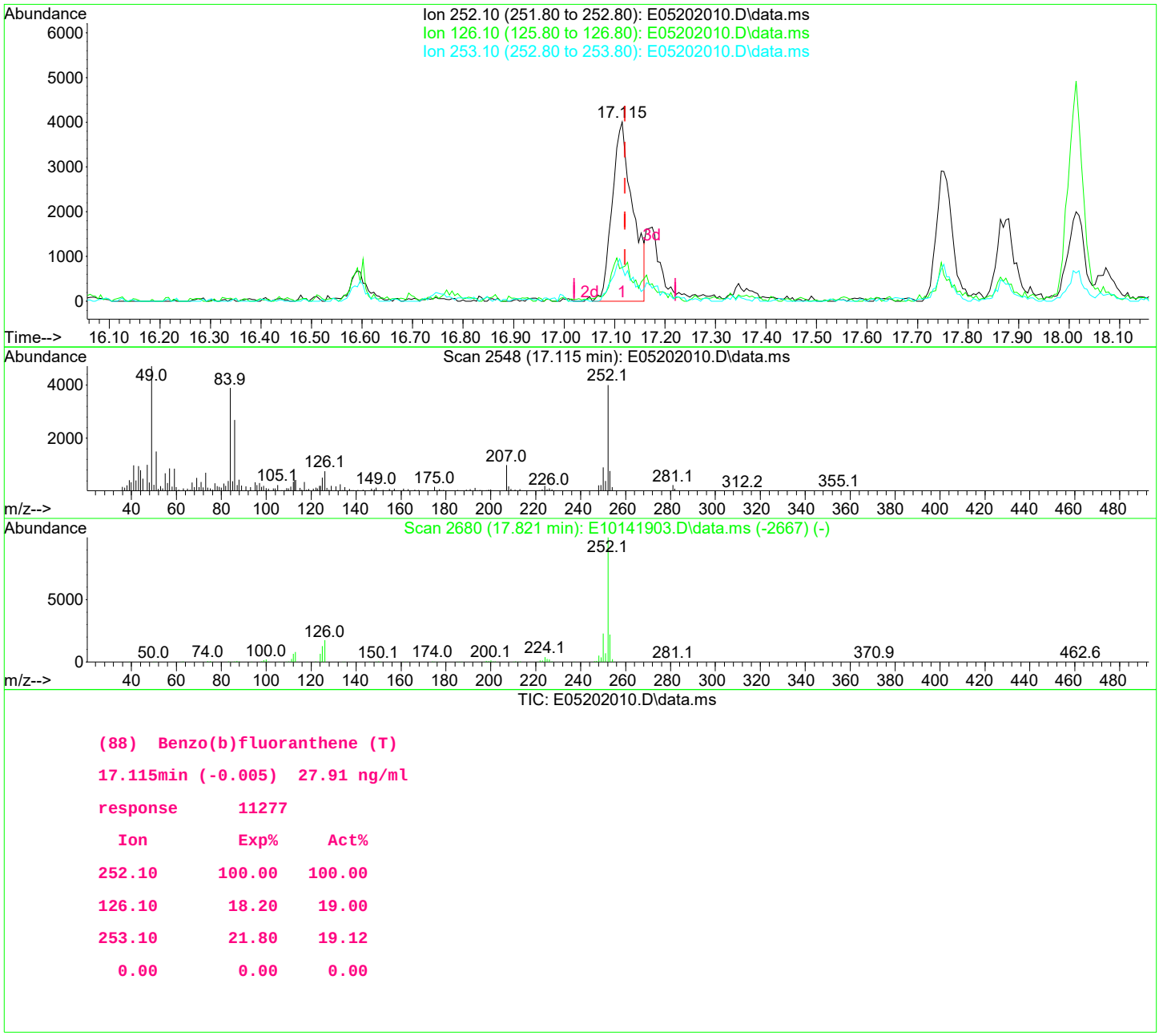
response 19431

Ion	Exp%	Act%
228.10	100.00	100.00
229.10	19.60	20.16
226.10	29.30	28.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:57:14 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



TIC: E05202010.D\data.ms

(88) Benzo(b)fluoranthene (T)

17.115min (-0.005) 27.91 ng/ml

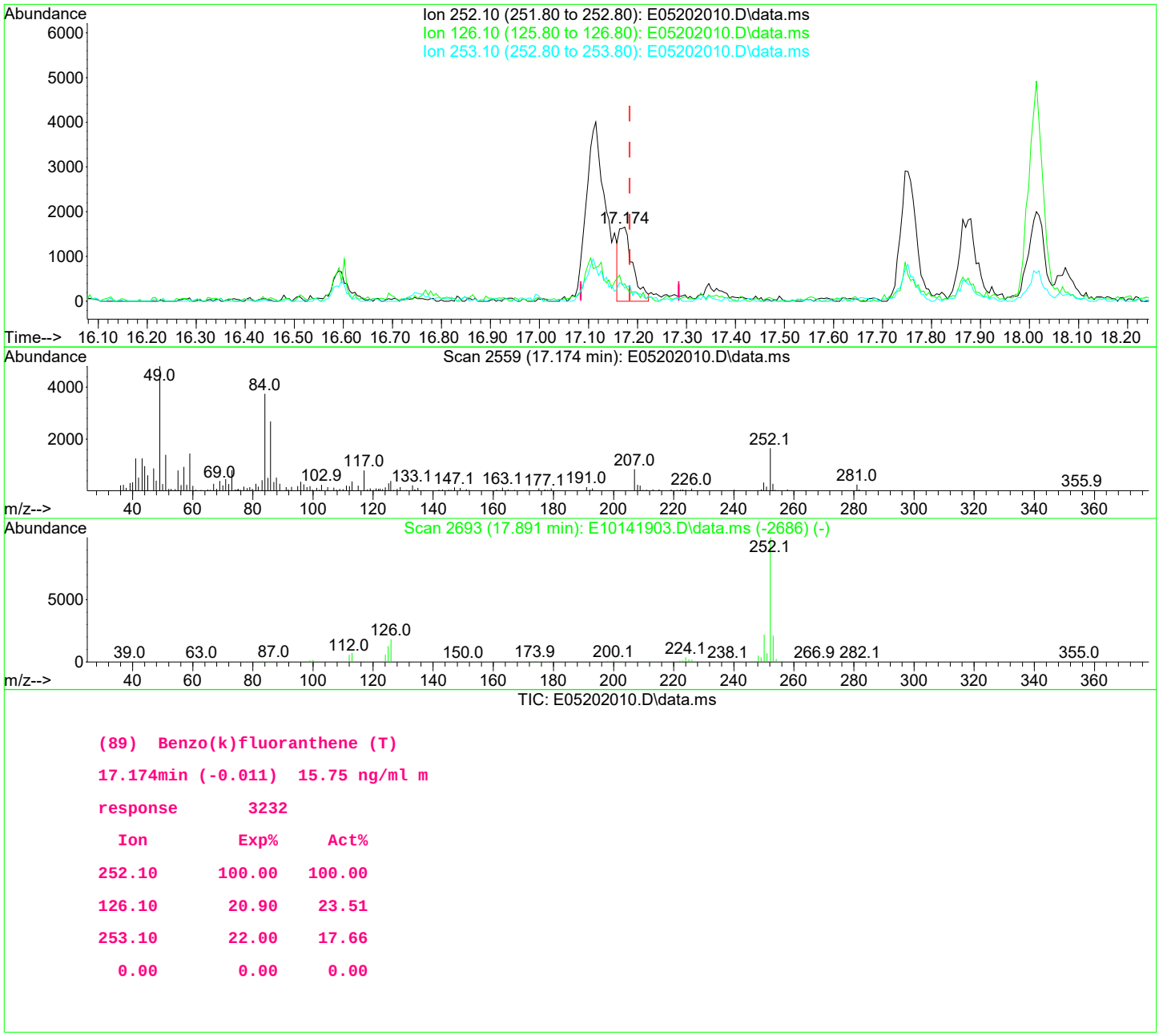
response 11277

Ion	Exp%	Act%
252.10	100.00	100.00
126.10	18.20	19.00
253.10	21.80	19.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:57:14 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



TIC: E05202010.D\data.ms

(89) Benzo(k)fluoranthene (T)

17.174min (-0.011) 15.75 ng/ml m

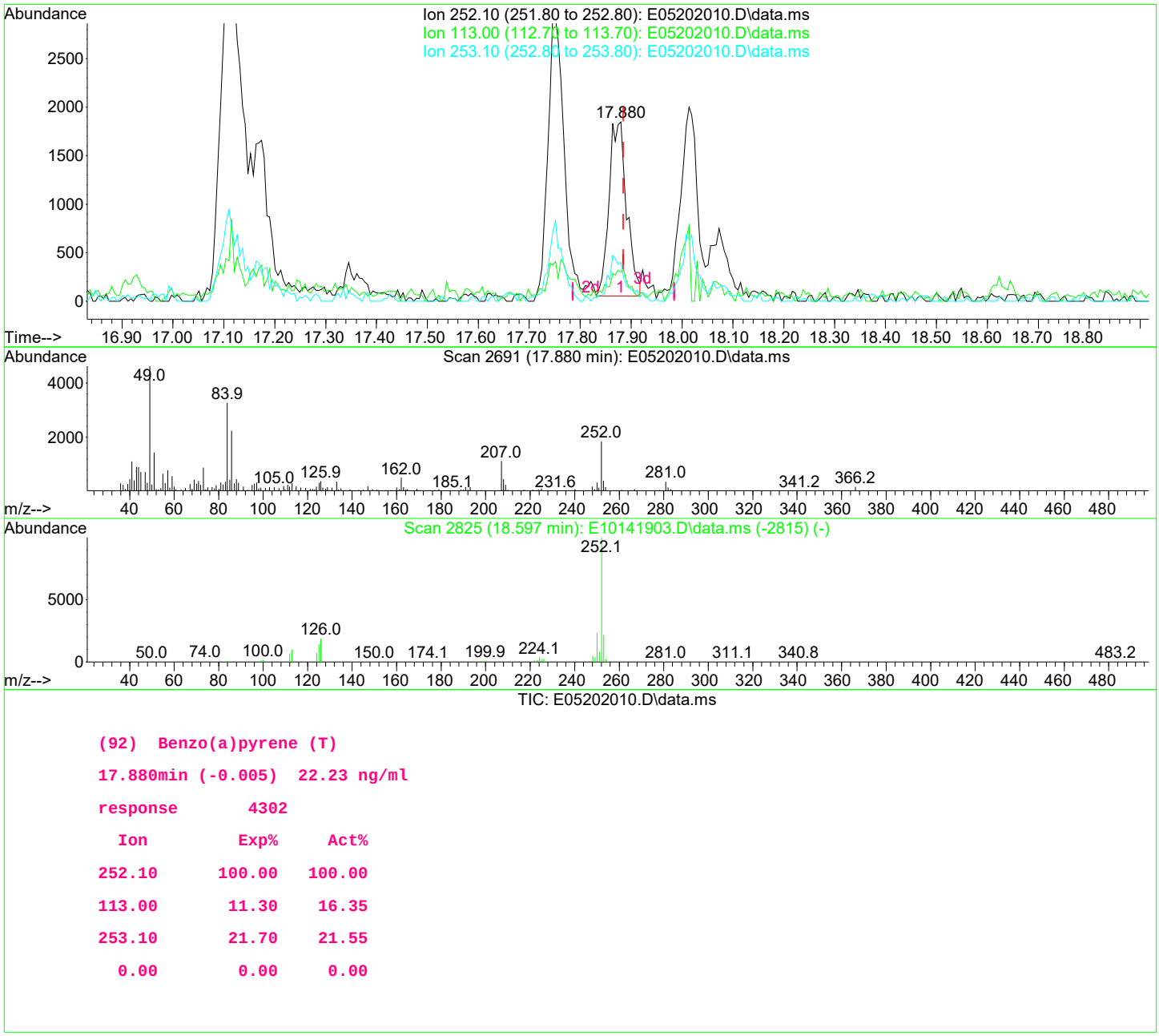
response 3232

Ion	Exp%	Act%
252.10	100.00	100.00
126.10	20.90	23.51
253.10	22.00	17.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202010.D
Acq On : 20 May 2020 1:42 pm
Operator : JK/ AMS /DTH
Sample : A0E0347-02RE2
Misc : 1x, 8270E LL PAH/BEHP
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:57:14 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



TIC: E05202010.D\data.ms

(92) Benzo(a)pyrene (T)

17.880min (-0.005) 22.23 ng/ml

response 4302

Ion	Exp%	Act%
252.10	100.00	100.00
113.00	11.30	16.35
253.10	21.70	21.55
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

AMS 5/21/20

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202014.D
Acq On : 20 May 2020 4:32 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 09:06:56 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.423	152	323510	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.669	136	1380145	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.440	162	696155	2000.00	ng/ml	-0.01
64) Phenanthrene-d10 (ISTD)	10.948	188	1320925	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	14.558	240	1294819	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.008	264	1190933	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	20.399	292	992512	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.220	112	425896	2084.28	ng/ml	-0.01
5) Phenol-d6(Surr)	6.086	99	352048	1355.29	ng/ml	-0.01
19) Nitrobenzene-d5 (Surr)	6.958	82	891386	3935.06	ng/ml	-0.01
40) 2-Fluorobiphenyl (Surr)	8.755	172	1572783	3013.17	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.247	330	270841	4433.56	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.686	244	2441572	4192.65	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.947	74	117	N.D.		
3) Pyridine	3.957	79	238	N.D.		
6) Phenol	6.097	94	4141	13.58	ng/ml#	1
7) Aniline	6.092	93	224	N.D.		
8) Bis(2-chloroethyl) ether	6.193	93	155	N.D.		
9) 2-Chlorophenol	6.241	128	233	N.D.		
10) 1,3-Dichlorobenzene	6.439	146	148	N.D.		
11) 1,4-Dichlorobenzene	6.439	146	148	N.D.		
12) Benzyl alcohol	6.535	108	170	48.02	ng/ml#	1
13) 1,2-Dichlorobenzene	6.594	146	68	N.D.		
14) 2-Methylphenol	6.680	107	213	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	6.685	45	129	N.D.		
16) N-Nitrosodi-n-propylamine	6.808	70	241	N.D.		
17) 3+4-Methylphenol	6.846	107	584	11.67	ng/ml#	2
18) Hexachloroethane	6.931	117	231	N.D.		
20) Nitrobenzene	6.958	77	2796	11.86	ng/ml#	28
22) Isophorone	7.209	82	759	9.11	ng/ml	65
23) 2-Nitrophenol	7.295	139	56	27.05	ng/ml#	1
24) 2,4-Dimethylphenol	7.359	122	100	11.56	ng/ml#	81
25) Bis(2-chloroethoxy) me...	7.423	93	84	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202014.D
Acq On : 20 May 2020 4:32 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 09:06:56 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.418	105	2927	1011.33	ng/ml	90
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	7.685	128	9722	12.79	ng/ml	98
30) 4-Chloroaniline	7.691	127	1373	5.52	ng/ml#	47
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	8.258	107	965	72.79	ng/ml#	1
33) 2-Methylnaphthalene	8.386	142	1659	3.47	ng/ml	95
34) 1-Methylnaphthalene	8.488	142	965	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	8.857	154	4426	7.47	ng/ml	97
41) 2-Chloronaphthalene	8.873	162	87	N.D.		
42) 2-Nitroaniline	8.910	138	205	34.20	ng/ml#	58
43) 2,6-Dimethylnaphthalene	9.017	156	876	N.D.		
44) 1,4-Dinitrobenzene	9.130	168	84	36.06	ng/ml#	1
45) Dimethyl phthalate	9.162	163	700	N.D.		
46) 1,3-Dinitrobenzene	9.130	168	84	32.01	ng/ml#	1
47) 2,6-Dinitrotoluene	9.204	165	506	19.41	ng/ml	98
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	9.295	152	455	N.D.		
50) 3-Nitroaniline	9.392	138	74	N.D.		
51) Acenaphthene	9.472	153	871	N.D.		
52) 2,4-Dinitrophenol	9.440	184	69	211.31	ng/ml#	1
53) 4-Nitrophenol	9.648	139	336	77.23	ng/ml#	34
54) 2,4-Dinitrotoluene	9.638	165	81	34.64	ng/ml#	61
55) Dibenzofuran	9.648	168	591	N.D.		
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	9.873	149	25263	57.40	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	9.857	170	320	N.D.		
60) Fluorene	10.001	166	758	N.D.		
61) 4-Chlorophenyl phenyl ...	9.991	204	112	N.D.		
62) 4-Nitroaniline	9.975	138	262	N.D.		
63) 4,6-Dinitro-2-methylph...	10.108	198	99	152.07	ng/ml#	1
65) N-Nitrosodiphenylamine	10.114	169	221	9.25	ng/ml#	45
66) Azobenzene (1,2-DPH)	10.167	77	925	11.30	ng/ml#	15

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202014.D
Acq On : 20 May 2020 4:32 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 09:06:56 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

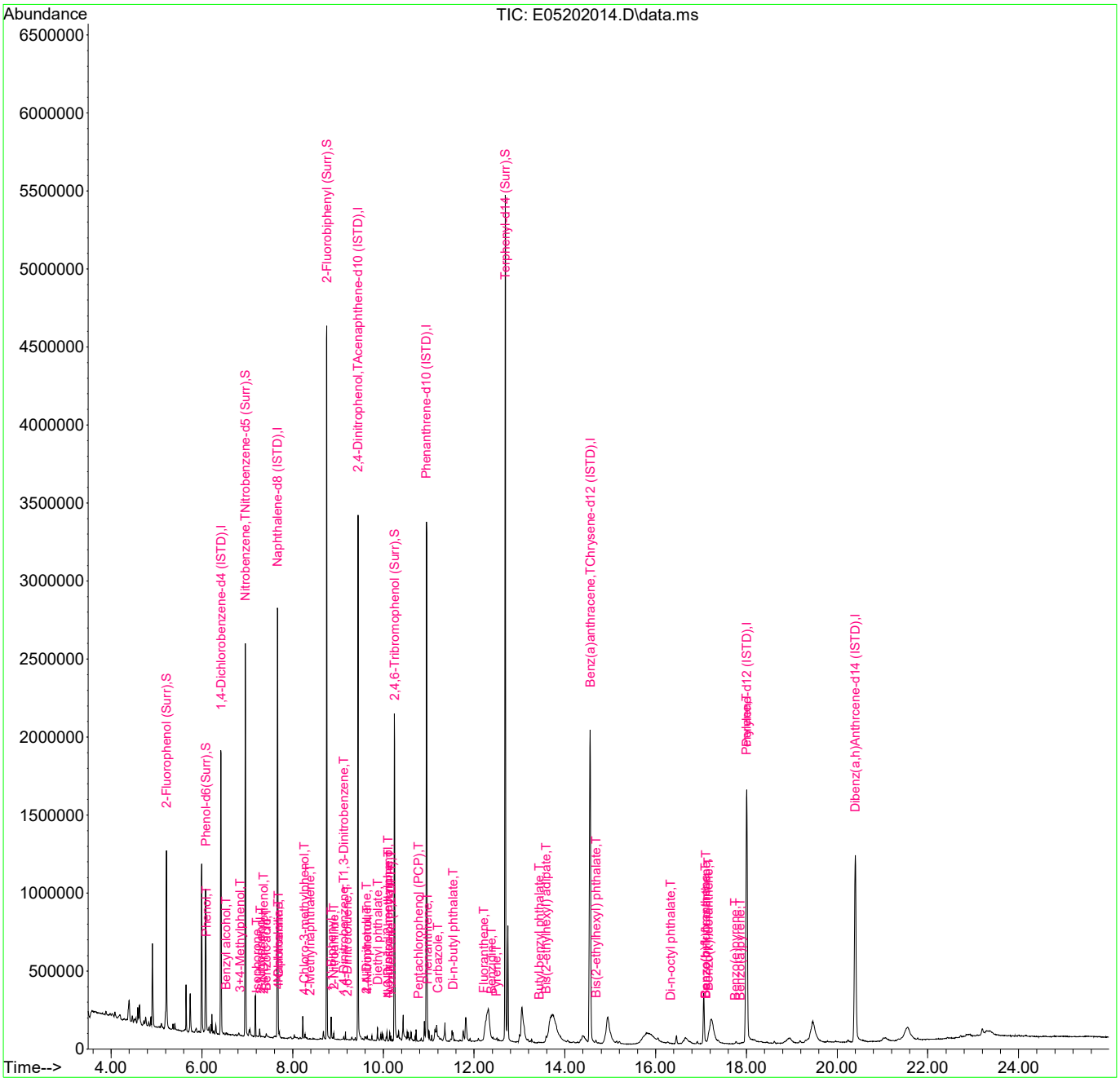
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.488	248	110	N.D.		
69) Hexachlorobenzene	10.568	284	89	N.D.		
70) Pentachlorophenol (PCP)	10.782	266	98	95.84	ng/ml#	61
71) Phenanthrene	10.975	178	4021	5.19	ng/ml	92
72) Anthracene	11.023	178	790	N.D.		
73) Carbazole	11.200	167	505	9.22	ng/ml	81
74) Di-n-butyl phthalate	11.536	149	16345	46.74	ng/ml	99
75) Fluoranthene	12.216	202	3093	4.40	ng/ml	82
76) Benzidine	12.382	184	50	171.31	ng/ml#	1
77) Pyrene	12.489	202	3187	4.33	ng/ml	97
80) Butyl benzyl phthalate	13.435	149	1396	71.34	ng/ml	83
81) Bis(2-ethylhexyl) adipate	13.585	129	7152	68.00	ng/ml	98
82) 3,3-Dichlorobenzidine	0.000		0	N.D.		
83) Benz(a)anthracene	14.558	228	3766	5.21	ng/ml	74
84) Chrysene	14.617	228	918	N.D.		
85) Bis(2-ethylhexyl) phth...	14.687	149	7608	85.77	ng/ml	96
87) Di-n-octyl phthalate	16.329	149	159	84.33	ng/ml#	1
88) Benzo(b)fluoranthene	17.099	252	254	9.96	ng/ml	88
89) Benzo(k)fluoranthene	17.163	252	319	11.35	ng/ml	71
90) Benzo(b+k)fluoranthene	17.115	252	920	20.76	ng/ml	76
91) Benzo(e)pyrene	17.752	252	349	8.66	ng/ml#	54
92) Benzo(a)pyrene	17.864	252	272	13.93	ng/ml#	49
93) Perylene	18.003	252	3952	6.88	ng/ml	74
95) Indeno(1,2,3-cd)pyrene	20.388	276	730	N.D.		
96) Dibenz(a,h)anthracene	20.474	278	124	N.D.		
97) Benzo(g,h,i)perylene	20.939	276	153	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202014.D
Acq On : 20 May 2020 4:32 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BLK2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 09:06:56 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/21/20

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202015.D
Acq On : 20 May 2020 5:08 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BS2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 09:07:20 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.418	152	316533	2000.00	ng/ml	-0.01
21) Naphthalene-d8 (ISTD)	7.670	136	1271427	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.445	162	681325	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	10.959	188	1347094	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.575	240	1320222	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.030	264	1226923	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.426	292	1067788	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.215	112	441070	2206.12	ng/ml	-0.02
5) Phenol-d6(Surr)	6.092	99	337817	1329.17	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	6.964	82	860618	3882.98	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.755	172	1582819	3098.40	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.253	330	299362	4758.63	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.692	244	2456473	4137.07	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.947	74	156123	1029.20	ng/ml	90
3) Pyridine	3.958	79	126	N.D.		
6) Phenol	6.102	94	307426	1030.26	ng/ml	96
7) Aniline	6.124	93	3283	9.89	ng/ml#	1
8) Bis(2-chloroethyl) ether	6.167	93	694991	2817.23	ng/ml	92
9) 2-Chlorophenol	6.231	128	658965	3077.57	ng/ml	95
10) 1,3-Dichlorobenzene	6.370	146	283112	1119.97	ng/ml	98
11) 1,4-Dichlorobenzene	6.434	146	298559	1167.84	ng/ml	98
12) Benzyl alcohol	6.562	108	247635	1895.30	ng/ml	95
13) 1,2-Dichlorobenzene	6.589	146	305718	1262.30	ng/ml	98
14) 2-Methylphenol	6.675	107	460135	2806.36	ng/ml	99
15) 2,2'-Oxybis(1-Chloropr...	6.685	45	848668	2642.55	ng/ml	90
16) N-Nitrosodi-n-propylamine	6.814	70	535887	3520.82	ng/ml	96
17) 3+4-Methylphenol	6.824	107	520486	2354.58	ng/ml	97
18) Hexachloroethane	6.910	117	87918	941.61	ng/ml	98
20) Nitrobenzene	6.980	77	687135	2979.66	ng/ml	95
22) Isophorone	7.215	82	1386136	3156.13	ng/ml	98
23) 2-Nitrophenol	7.295	139	365071	3131.88	ng/ml	93
24) 2,4-Dimethylphenol	7.343	122	516319	3078.99	ng/ml	99
25) Bis(2-chloroethoxy) me...	7.424	93	862534	3010.14	ng/ml	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202015.D
Acq On : 20 May 2020 5:08 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BS2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 09:07:20 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.461	105	243667	4012.72	ng/ml	96
27) 2,4-Dichlorophenol	7.536	162	527389	3401.51	ng/ml	97
28) 1,2,4-Trichlorobenzene	7.616	180	264317	1369.07	ng/ml	100
29) Naphthalene	7.691	128	1297226	1852.40	ng/ml	99
30) 4-Chloroaniline	7.750	127	40405	176.38	ng/ml	96
31) Hexachlorobutadiene	7.819	225	94875	986.68	ng/ml	98
32) 4-Chloro-3-methylphenol	8.242	107	595032	3738.17	ng/ml	98
33) 2-Methylnaphthalene	8.386	142	862432	1960.48	ng/ml	99
34) 1-Methylnaphthalene	8.483	142	853899	2074.45	ng/ml	99
36) Hexachlorocyclopentadiene	8.552	237	69823	767.85	ng/ml	98
37) 2,4,6-Trichlorophenol	8.680	196	406096	3546.26	ng/ml	99
38) 2,4,5-Trichlorophenol	8.718	196	441203	3920.02	ng/ml	98
39) 1,1'-Biphenyl	8.857	154	1185713	2043.48	ng/ml	99
41) 2-Chloronaphthalene	8.878	162	853187	1935.89	ng/ml	100
42) 2-Nitroaniline	8.991	138	511752	3659.50	ng/ml	97
43) 2,6-Dimethylnaphthalene	9.017	156	782071	1853.31	ng/ml	99
44) 1,4-Dinitrobenzene	9.124	168	249841	3799.89	ng/ml	93
45) Dimethyl phthalate	9.173	163	1641015	3722.52	ng/ml	99
46) 1,3-Dinitrobenzene	9.205	168	283191	3771.11	ng/ml	91
47) 2,6-Dinitrotoluene	9.231	165	394212	3633.68	ng/ml	88
48) 1,2-Dinitrobenzene	9.296	168	186181	3745.83	ng/ml	82
49) Acenaphthylene	9.301	152	1726411	2649.64	ng/ml	100
50) 3-Nitroaniline	9.408	138	245470	2216.77	ng/ml	99
51) Acenaphthene	9.477	153	1099617	2370.93	ng/ml	100
52) 2,4-Dinitrophenol	9.515	184	214261	4361.58	ng/ml	95
53) 4-Nitrophenol	9.600	139	102938	1494.35	ng/ml	99
54) 2,4-Dinitrotoluene	9.649	165	532576	3921.32	ng/ml	84
55) Dibenzofuran	9.654	168	1619337	2769.73	ng/ml	99
56) 2,3,5,6-Tetrachlorophenol	9.745	232	375727	4126.88	ng/ml	100
57) 2,3,4,6-Tetrachlorophenol	9.788	232	391311	4296.29	ng/ml	99
58) Diethyl phthalate	9.884	149	1717100	3986.58	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	9.868	170	927849	2507.66	ng/ml	100
60) Fluorene	10.002	166	1449282	3110.13	ng/ml	99
61) 4-Chlorophenyl phenyl ...	9.996	204	611486	2946.41	ng/ml	98
62) 4-Nitroaniline	10.034	138	412457	3770.08	ng/ml	92
63) 4,6-Dinitro-2-methylph...	10.066	198	320022	4268.43	ng/ml	95
65) N-Nitrosodiphenylamine	10.125	169	1423384	3082.71	ng/ml	99
66) Azobenzene (1,2-DPH)	10.162	77	1608803	2670.35	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202015.D
Acq On : 20 May 2020 5:08 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BS2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 09:07:20 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

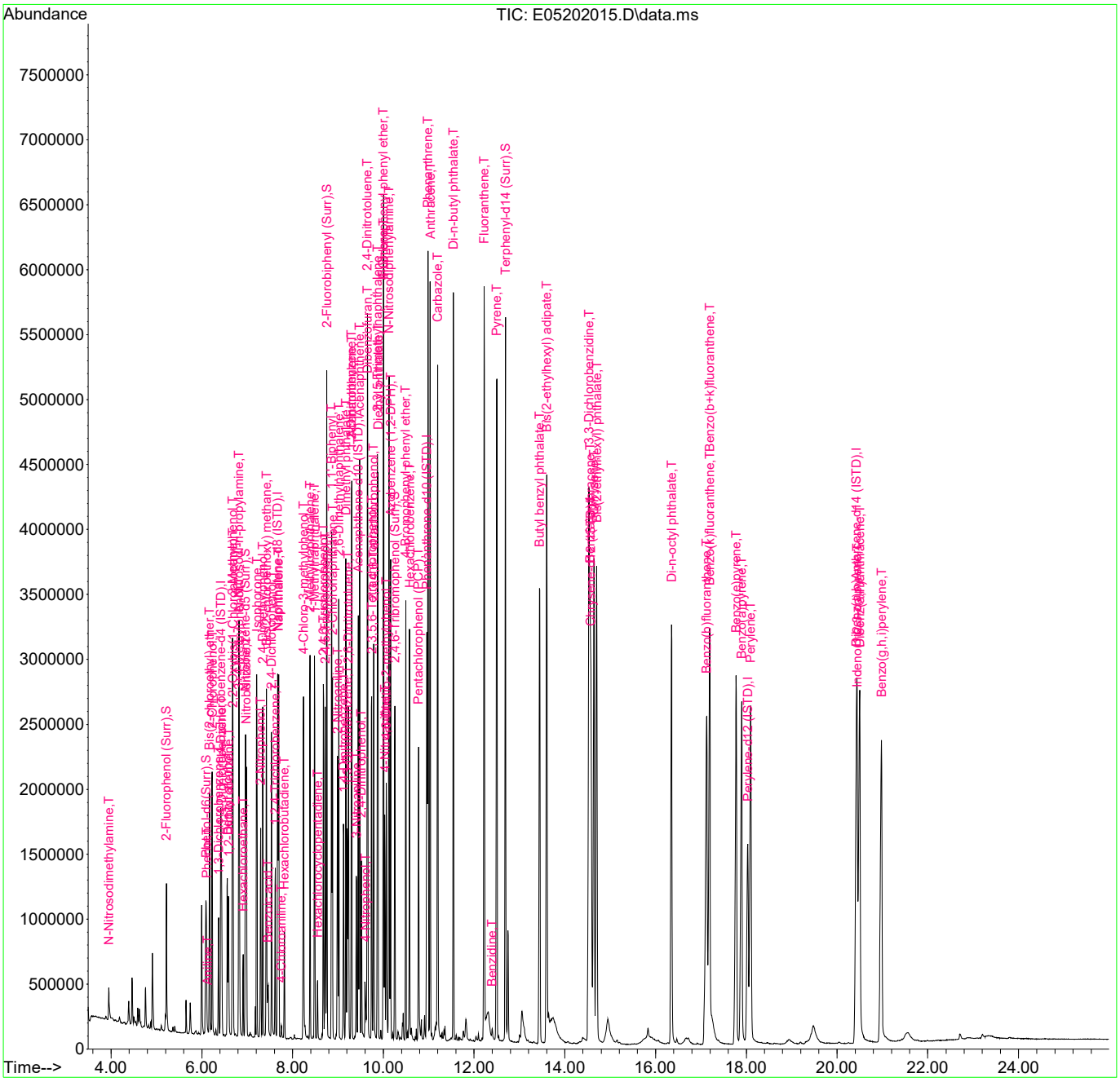
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.494	248	407804	3081.01	ng/ml	98
69) Hexachlorobenzene	10.579	284	475769	3167.97	ng/ml	97
70) Pentachlorophenol (PCP)	10.777	266	279711	4127.21	ng/ml	99
71) Phenanthrene	10.980	178	2372611	3005.45	ng/ml	99
72) Anthracene	11.034	178	2423226	3314.50	ng/ml	100
73) Carbazole	11.200	167	2408885	3550.64	ng/ml	99
74) Di-n-butyl phthalate	11.542	149	3054606	3684.00	ng/ml	100
75) Fluoranthene	12.221	202	2755270	3846.83	ng/ml	97
76) Benzidine	12.392	184	144	171.59	ng/ml#	1
77) Pyrene	12.499	202	2751270	3661.28	ng/ml	99
80) Butyl benzyl phthalate	13.446	149	1314760	3442.11	ng/ml	97
81) Bis(2-ethylhexyl) adipate	13.601	129	1232198	3396.47	ng/ml	100
82) 3,3-Dichlorobenzidine	14.532	252	1313538	7119.11	ng/ml	99
83) Benz(a)anthracene	14.553	228	2588749	3512.61	ng/ml	99
84) Chrysene	14.639	228	2497189	3411.08	ng/ml	100
85) Bis(2-ethylhexyl) phth...	14.703	149	1860578	3351.11	ng/ml	99
87) Di-n-octyl phthalate	16.350	149	3188267	3700.32	ng/ml	98
88) Benzo(b)fluoranthene	17.126	252	2519624	3555.23	ng/ml	98
89) Benzo(k)fluoranthene	17.190	252	2465372	3465.65	ng/ml	99
90) Benzo(b+k)fluoranthene	17.190	252	5093790	6948.42	ng/ml	99
91) Benzo(e)pyrene	17.773	252	2372876	3494.77	ng/ml	99
92) Benzo(a)pyrene	17.896	252	2147556	3472.13	ng/ml	98
93) Perylene	18.094	252	2019249	3413.06	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.442	276	2257621	3547.08	ng/ml	98
96) Dibenz(a,h)anthracene	20.501	278	2143726	3520.06	ng/ml	100
97) Benzo(g,h,i)perylene	20.977	276	2133553	3492.34	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202015.D
Acq On : 20 May 2020 5:08 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BS2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 09:07:20 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/21/20

Q19

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202016.D
Acq On : 20 May 2020 5:44 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BSD2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 21 09:07:46 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.423	152	319426	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.670	136	1386988	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.445	162	728643	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	10.954	188	1346745	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.575	240	1299468	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.030	264	1232791	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.426	292	1040465	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.220	112	425496	2108.95	ng/ml	-0.01
5) Phenol-d6(Surr)	6.092	99	346766	1352.02	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	6.964	82	936643	4187.72	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.755	172	1738933	3182.94	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.253	330	298467	4747.25	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.692	244	2385592	4081.86	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.947	74	150959	986.15	ng/ml	92
3) Pyridine	3.958	79	53	N.D.		
6) Phenol	6.102	94	319920	1062.42	ng/ml	96
7) Aniline	6.118	93	4656	13.90	ng/ml#	1
8) Bis(2-chloroethyl) ether	6.167	93	732393	2941.96	ng/ml	92
9) 2-Chlorophenol	6.231	128	675105	3124.40	ng/ml	95
10) 1,3-Dichlorobenzene	6.370	146	281394	1103.10	ng/ml	98
11) 1,4-Dichlorobenzene	6.439	146	300947	1166.52	ng/ml	99
12) Benzyl alcohol	6.562	108	268583	2029.79	ng/ml	95
13) 1,2-Dichlorobenzene	6.589	146	305946	1251.80	ng/ml	99
14) 2-Methylphenol	6.675	107	489641	2959.27	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	6.685	45	897734	2770.02	ng/ml	90
16) N-Nitrosodi-n-propylamine	6.814	70	596748	3885.17	ng/ml	96
17) 3+4-Methylphenol	6.824	107	570004	2556.93	ng/ml	97
18) Hexachloroethane	6.910	117	88022	934.19	ng/ml	96
20) Nitrobenzene	6.980	77	757892	3256.73	ng/ml	94
22) Isophorone	7.215	82	1543691	3218.84	ng/ml	97
23) 2-Nitrophenol	7.295	139	412550	3235.53	ng/ml	94
24) 2,4-Dimethylphenol	7.343	122	564047	3083.01	ng/ml	99
25) Bis(2-chloroethoxy) me...	7.424	93	962582	3079.40	ng/ml	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202016.D
Acq On : 20 May 2020 5:44 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BSD2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 21 09:07:46 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.461	105	264246	3997.47	ng/ml	95
27) 2,4-Dichlorophenol	7.536	162	588894	3471.46	ng/ml	97
28) 1,2,4-Trichlorobenzene	7.616	180	277066	1315.53	ng/ml	99
29) Naphthalene	7.691	128	1378603	1804.58	ng/ml	99
30) 4-Chloroaniline	7.750	127	46786	187.22	ng/ml	95
31) Hexachlorobutadiene	7.819	225	100913	962.04	ng/ml	99
32) 4-Chloro-3-methylphenol	8.242	107	640034	3691.59	ng/ml	97
33) 2-Methylnaphthalene	8.381	142	924084	1925.61	ng/ml	99
34) 1-Methylnaphthalene	8.483	142	914339	2036.20	ng/ml	100
36) Hexachlorocyclopentadiene	8.552	237	73906	760.12	ng/ml	98
37) 2,4,6-Trichlorophenol	8.675	196	445765	3629.97	ng/ml	99
38) 2,4,5-Trichlorophenol	8.718	196	472196	3922.48	ng/ml	100
39) 1,1'-Biphenyl	8.857	154	1270669	2047.68	ng/ml	100
41) 2-Chloronaphthalene	8.878	162	900204	1909.92	ng/ml	99
42) 2-Nitroaniline	8.985	138	536926	3598.62	ng/ml	89
43) 2,6-Dimethylnaphthalene	9.017	156	823591	1824.96	ng/ml	100
44) 1,4-Dinitrobenzene	9.124	168	265135	3775.00	ng/ml	95
45) Dimethyl phthalate	9.173	163	1708495	3623.91	ng/ml	99
46) 1,3-Dinitrobenzene	9.205	168	294899	3682.94	ng/ml	91
47) 2,6-Dinitrotoluene	9.231	165	407661	3524.16	ng/ml	90
48) 1,2-Dinitrobenzene	9.296	168	194193	3653.30	ng/ml	81
49) Acenaphthylene	9.301	152	1836616	2635.73	ng/ml	100
50) 3-Nitroaniline	9.403	138	252290	2130.40	ng/ml	92
51) Acenaphthene	9.477	153	1158576	2335.83	ng/ml	100
52) 2,4-Dinitrophenol	9.515	184	213856	4164.97	ng/ml	95
53) 4-Nitrophenol	9.595	139	98157	1349.56	ng/ml	100
54) 2,4-Dinitrotoluene	9.649	165	543677	3754.05	ng/ml	86
55) Dibenzofuran	9.654	168	1686828	2697.81	ng/ml	100
56) 2,3,5,6-Tetrachlorophenol	9.739	232	386667	4004.33	ng/ml	96
57) 2,3,4,6-Tetrachlorophenol	9.788	232	398537	4120.46	ng/ml	99
58) Diethyl phthalate	9.884	149	1754264	3808.37	ng/ml	97
59) 2,3,5-Trimethylnaphtha...	9.863	170	953096	2408.62	ng/ml	98
60) Fluorene	10.002	166	1484567	2978.96	ng/ml	99
61) 4-Chlorophenyl phenyl ...	9.996	204	625510	2818.25	ng/ml	99
62) 4-Nitroaniline	10.034	138	395954	3384.20	ng/ml	94
63) 4,6-Dinitro-2-methylph...	10.066	198	314871	3984.10	ng/ml	100
65) N-Nitrosodiphenylamine	10.119	169	1449069	3139.50	ng/ml	99
66) Azobenzene (1,2-DPH)	10.157	77	1632880	2712.14	ng/ml	92

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202016.D
Acq On : 20 May 2020 5:44 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BSD2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 21 09:07:46 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration

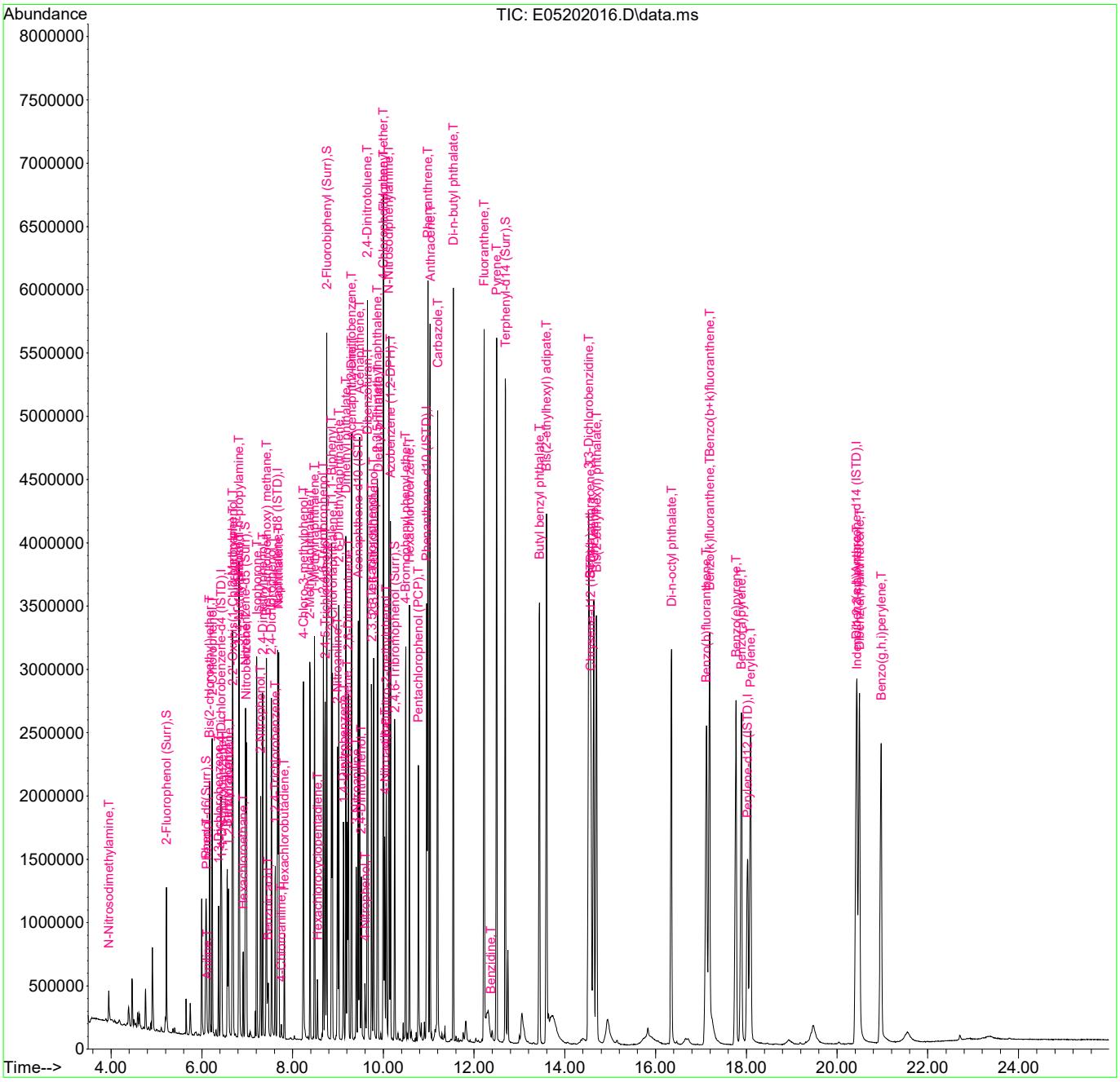
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.494	248	407362	3078.47	ng/ml	99
69) Hexachlorobenzene	10.574	284	483877	3222.80	ng/ml	98
70) Pentachlorophenol (PCP)	10.772	266	277789	4107.49	ng/ml	98
71) Phenanthrene	10.980	178	2348565	2975.76	ng/ml	99
72) Anthracene	11.034	178	2417116	3307.00	ng/ml	99
73) Carbazole	11.200	167	2313402	3411.96	ng/ml	99
74) Di-n-butyl phthalate	11.542	149	2926479	3529.52	ng/ml	100
75) Fluoranthene	12.221	202	2674367	3734.84	ng/ml	97
76) Benzidine	12.371	184	127	171.54	ng/ml#	1
77) Pyrene	12.494	202	2706567	3602.73	ng/ml	99
80) Butyl benzyl phthalate	13.441	149	1288046	3427.80	ng/ml	96
81) Bis(2-ethylhexyl) adipate	13.596	129	1184909	3327.31	ng/ml	100
82) 3,3-Dichlorobenzidine	14.527	252	1318697	7236.28	ng/ml	99
83) Benz(a)anthracene	14.553	228	2492375	3435.86	ng/ml	99
84) Chrysene	14.639	228	2392514	3320.30	ng/ml	100
85) Bis(2-ethylhexyl) phth...	14.698	149	1790991	3283.74	ng/ml	100
87) Di-n-octyl phthalate	16.350	149	3063501	3572.99	ng/ml	98
88) Benzo(b)fluoranthene	17.121	252	2441173	3441.13	ng/ml	97
89) Benzo(k)fluoranthene	17.190	252	2369845	3322.80	ng/ml	99
90) Benzo(b+k)fluoranthene	17.190	252	4918941	6698.15	ng/ml	99
91) Benzo(e)pyrene	17.773	252	2287080	3362.19	ng/ml	99
92) Benzo(a)pyrene	17.891	252	2087815	3378.07	ng/ml	99
93) Perylene	18.094	252	1930948	3248.28	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.437	276	2144397	3457.67	ng/ml	100
96) Dibenz(a,h)anthracene	20.496	278	2032502	3425.07	ng/ml	97
97) Benzo(g,h,i)perylene	20.972	276	2041398	3429.25	ng/ml	93

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E20035\
Data File : E05202016.D
Acq On : 20 May 2020 5:44 pm
Operator : JK/ AMS /DTH
Sample : 0050743-BSD2
Misc : 1x, 8270D LL P/P/P
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 21 09:07:46 2020
Quant Method : C:\msdchem\1\METHODS\SV5_010320R4.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Wed Apr 29 15:49:35 2020
Response via : Initial Calibration



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Calibration Data

Sequence 0A03043 (Cal ID A0A0704) SV-GCMS5

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0A03043**

Date: **01/03/20 16:07**

Instrument: **SV-GCMS5**

Calibration: **A0A0704**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A03043-TUN1	Water	QC	QC			A19L360	A19L362
2	0A03043-IBL1	Water	QC	QC			A19L360	
3	0A03043-ICB1	Water	QC	QC			A19L360	
4	0A03043-CAL1	Water	QC	QC			A19L360	A20A022
5	0A03043-CAL2	Water	QC	QC			A19L360	A20A023
6	0A03043-CAL3	Water	QC	QC			A19L360	A20A024
7	0A03043-CAL4	Water	QC	QC			A19L360	A20A025
8	0A03043-CAL5	Water	QC	QC			A19L360	A20A026
9	0A03043-CAL6	Water	QC	QC			A19L360	A20A027
10	0A03043-CAL7	Water	QC	QC			A19L360	A20A028
11	0A03043-CAL8	Water	QC	QC			A19L360	A20A029
12	0A03043-CAL9	Water	QC	QC			A19L360	A20A030
13	0A03043-CALA	Water	QC	QC			A19L360	A20A031
14	0A03043-IBL2	Water	QC	QC			A19L360	
15	0A03043-ICV1	Water	QC	QC			A19L360	A19I254
16	0A03043-IBL3	Water	QC	QC			A19L360	

Data Entered By: 1/7/20

Data Reviewed By: 1/8/20

Comments:

Calibration Status Report SV-GCMS5

Method Path : Z:\METHODS\
Method File : SV5_010320.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Jan 06 10:51:56 2020
Response Via : Initial Calibration

A0A0704
1/6/20

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3	100	100	2000	Z:\DATA\2020-01\0A03043\E01032019.D
4	200	200	2000	Z:\DATA\2020-01\0A03043\E01032020.D
5	500	500	2000	Z:\DATA\2020-01\0A03043\E01032021.D
6	1000	1000	2000	Z:\DATA\2020-01\0A03043\E01032022.D
7	2000	2000	2000	Z:\DATA\2020-01\0A03043\E01032023.D
8	4000	4000	2000	Z:\DATA\2020-01\0A03043\E01032024.D
9	6000	6000	2000	Z:\DATA\2020-01\0A03043\E01032025.D
10	8000	8000	2000	Z:\DATA\2020-01\0A03043\E01032026.D

#	ID	Update Time	Quant Time	Acquisition Time
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2	50	Jan 06 10:51 2020	Jan 06 10:15 2020	3 Jan 2020 18:33
3	100	Jan 06 10:51 2020	Jan 06 10:36 2020	3 Jan 2020 19:47
4	200	Jan 06 10:51 2020	Jan 06 09:43 2020	3 Jan 2020 20:24
5	500	Jan 06 10:51 2020	Jan 06 09:43 2020	3 Jan 2020 21:00
6	1000	Jan 06 10:51 2020	Jan 06 09:43 2020	3 Jan 2020 21:37
7	2000	Jan 06 10:51 2020	Jan 06 09:43 2020	3 Jan 2020 22:13
8	4000	Jan 06 10:51 2020	Jan 06 10:42 2020	3 Jan 2020 22:50
9	6000	Jan 06 10:51 2020	Jan 06 10:43 2020	3 Jan 2020 23:27
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SV5_010320.M Mon Jan 06 12:28:58 2020

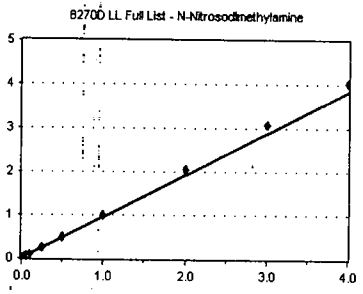
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

N-Nitrosodimethylamine

Curve Fit: **AVERAGE RF**

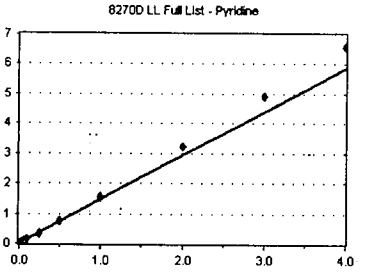


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	4143	0.871	4.14
0A03043-CAL2	50	10568	0.868	4.13
0A03043-CAL3	100	21634	0.887	4.12
0A03043-CAL4	200	47310	0.937	4.12
0A03043-CAL5	500	121424	0.964	4.11
0A03043-CAL6	1000	246321	0.987	4.11
0A03043-CAL7	2000	509539	1.010	4.10
0A03043-CAL8	4000	1030000	1.030	4.11
0A03043-CAL9	6000	1536246	1.025	4.12
0A03043-CALA	8000	1986289	1.006	4.12

AVE RF **0.958** RF RSD **6.65** AVE RT **4.12**

Pyridine

Curve Fit: **AVERAGE RF**

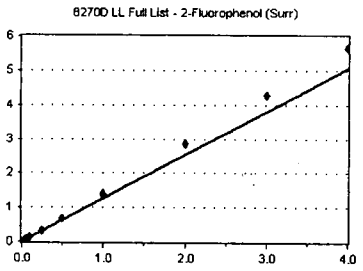


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~4787~~	~~1.007~~	~~4.20~~
0A03043-CAL2	50	13485	1.108	4.17
0A03043-CAL3	100	31363	1.286	4.16
0A03043-CAL4	200	69006	1.366	4.15
0A03043-CAL5	500	180907	1.436	4.13
0A03043-CAL6	1000	381152	1.527	4.13
0A03043-CAL7	2000	790087	1.565	4.12
0A03043-CAL8	4000	1613979	1.614	4.13
0A03043-CAL9	6000	2451657	1.636	4.14
0A03043-CALA	8000	3242206	1.642	4.13

AVE RF **1.464** RF RSD **12.47** AVE RT **4.14**

2-Fluorophenol (Surr)

Curve Fit: **AVERAGE RF**

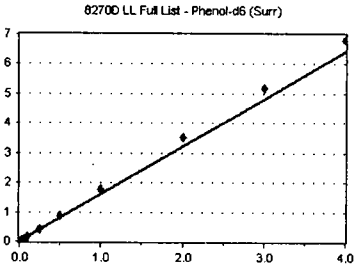


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	4589	0.965	5.38
0A03043-CAL2	50	12764	1.049	5.38
0A03043-CAL3	100	27225	1.116	5.37
0A03043-CAL4	200	62277	1.233	5.37
0A03043-CAL5	500	160746	1.276	5.37
0A03043-CAL6	1000	336372	1.348	5.37
0A03043-CAL7	2000	695847	1.379	5.37
0A03043-CAL8	4000	1428831	1.429	5.37
0A03043-CAL9	6000	2144132	1.431	5.37
0A03043-CALA	8000	2779096	1.408	5.38

AVE RF **1.263** RF RSD **13.31** AVE RT **5.37**

Phenol-d6 (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	6058	1.274	6.23
0A03043-CAL2	50	16579	1.362	6.23
0A03043-CAL3	100	36199	1.484	6.23
0A03043-CAL4	200	80402	1.592	6.23
0A03043-CAL5	500	210566	1.671	6.23
0A03043-CAL6	1000	429205	1.720	6.23
0A03043-CAL7	2000	892079	1.768	6.23
0A03043-CAL8	4000	1758815	1.759	6.24
0A03043-CAL9	6000	2586123	1.726	6.24
0A03043-CALA	8000	3363468	1.703	6.25

AVE RF **1.606** RF RSD **10.89** AVE RT **6.23**

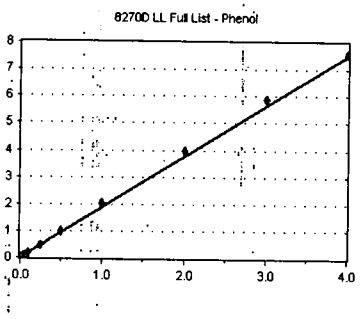
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Phenol

Curve Fit: **AVERAGE RF**

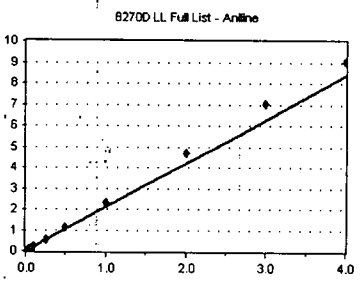


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	7580	1.594	6.24
0A03043-CAL2	50	20218	1.661	6.24
0A03043-CAL3	100	44170	1.811	6.24
0A03043-CAL4	200	96640	1.913	6.24
0A03043-CAL5	500	250140	1.985	6.24
0A03043-CAL6	1000	499382	2.001	6.24
0A03043-CAL7	2000	1027417	2.036	6.24
0A03043-CAL8	4000	1993033	1.993	6.25
0A03043-CAL9	6000	2943582	1.964	6.26
0A03043-CALA	8000	3741893	1.895	6.26

AVE RF **1.885** RF RSD **8.01** AVE RT **6.25**

Aniline

Curve Fit: **AVERAGE RF**

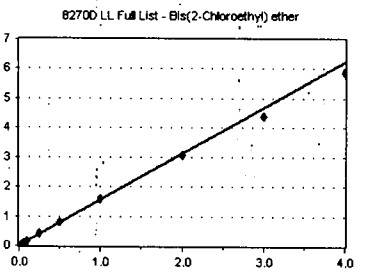


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	7273	1.530	6.27
0A03043-CAL2	50	19779	1.625	6.27
0A03043-CAL3	100	48322	1.981	6.27
0A03043-CAL4	200	107597	2.130	6.27
0A03043-CAL5	500	277054	2.199	6.27
0A03043-CAL6	1000	554511	2.222	6.27
0A03043-CAL7	2000	1183430	2.345	6.27
0A03043-CAL8	4000	2338985	2.339	6.27
0A03043-CAL9	6000	3506310	2.340	6.28
0A03043-CALA	8000	4462822	2.260	6.28

AVE RF **2.097** RF RSD **14.13** AVE RT **6.27**

Bis(2-Chloroethyl) ether

Curve Fit: **AVERAGE RF**

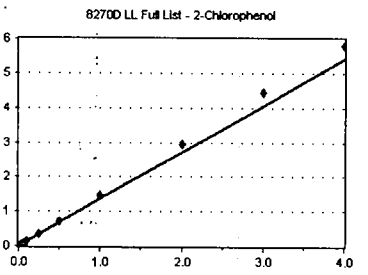


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	7319	1.540	6.32
0A03043-CAL2	50	18849	1.549	6.32
0A03043-CAL3	100	40084	1.643	6.32
0A03043-CAL4	200	80901	1.602	6.32
0A03043-CAL5	500	204168	1.621	6.32
0A03043-CAL6	1000	395373	1.584	6.32
0A03043-CAL7	2000	806895	1.599	6.32
0A03043-CAL8	4000	1526128	1.526	6.33
0A03043-CAL9	6000	2189516	1.461	6.33
0A03043-CALA	8000	2889611	1.463	6.33

AVE RF **1.559** RF RSD **4.01** AVE RT **6.32**

2-Chlorophenol

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	5092	1.071	6.39
0A03043-CAL2	50	13700	1.126	6.39
0A03043-CAL3	100	30680	1.258	6.38
0A03043-CAL4	200	67883	1.344	6.38
0A03043-CAL5	500	177728	1.411	6.38
0A03043-CAL6	1000	359999	1.442	6.38
0A03043-CAL7	2000	738054	1.462	6.38
0A03043-CAL8	4000	1480190	1.480	6.39
0A03043-CAL9	6000	2217353	1.480	6.39
0A03043-CALA	8000	2873566	1.455	6.39

AVE RF **1.353** RF RSD **11.19** AVE RT **6.38**

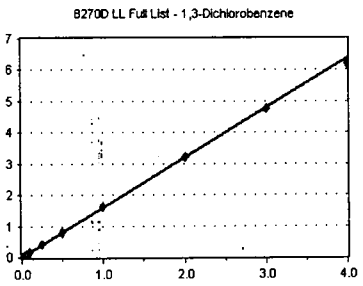
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

1,3-Dichlorobenzene

Curve Fit: **AVERAGE RF**

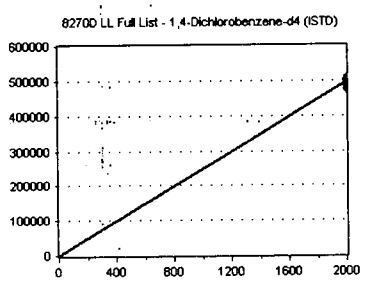


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	7426	1.562	6.53
0A03043-CAL2	50	19596	1.610	6.53
0A03043-CAL3	100	38946	1.596	6.53
0A03043-CAL4	200	82198	1.627	6.53
0A03043-CAL5	500	202945	1.611	6.53
0A03043-CAL6	1000	399979	1.603	6.53
0A03043-CAL7	2000	813354	1.612	6.53
0A03043-CAL8	4000	1611821	1.612	6.53
0A03043-CAL9	6000	2386672	1.593	6.53
0A03043-CALA	8000	3053807	1.547	6.53

AVE RF **1.597** RF RSD **1.55** AVE RT **6.53**

1,4-Dichlorobenzene-d4 (ISTD)

Curve Fit: **AVERAGE RF**

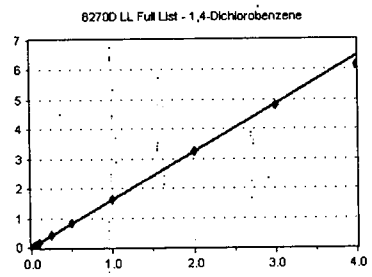


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	2000	475411	237.705	6.58
0A03043-CAL2	2000	486839	243.420	6.58
0A03043-CAL3	2000	487898	243.949	6.57
0A03043-CAL4	2000	505078	252.539	6.57
0A03043-CAL5	2000	503934	251.967	6.58
0A03043-CAL6	2000	499189	249.595	6.57
0A03043-CAL7	2000	504695	252.348	6.58
0A03043-CAL8	2000	500043	250.022	6.58
0A03043-CAL9	2000	499484	249.742	6.58
0A03043-CALA	2000	493615	246.808	6.58

AVE RF **247.809** RF RSD **1.95** AVE RT **6.58**

1,4-Dichlorobenzene

Curve Fit: **AVERAGE RF**

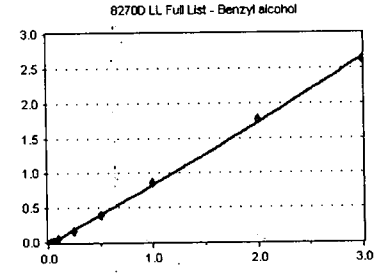


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	7553	1.589	6.60
0A03043-CAL2	50	19296	1.585	6.59
0A03043-CAL3	100	40428	1.657	6.59
0A03043-CAL4	200	83723	1.658	6.59
0A03043-CAL5	500	207838	1.650	6.59
0A03043-CAL6	1000	407235	1.632	6.59
0A03043-CAL7	2000	816661	1.618	6.60
0A03043-CAL8	4000	1621535	1.621	6.59
0A03043-CAL9	6000	2398439	1.601	6.59
0A03043-CALA	8000	3046073	1.543	6.60

AVE RF **1.615** RF RSD **2.27** AVE RT **6.59**

Benzyl alcohol

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~668~~	~~0.141~~	~~6.73~~
0A03043-CAL2	50	3816	0.314	6.72
0A03043-CAL3	100	9129	0.374	6.71
0A03043-CAL4	200	25558	0.506	6.71
0A03043-CAL5	500	84038	0.667	6.71
0A03043-CAL6	1000	191064	0.765	6.71
0A03043-CAL7	2000	437408	0.867	6.71
0A03043-CAL8	4000	884831	0.885	6.71
0A03043-CAL9	6000	1310681	0.875	6.72
~~0A03043-CALA~~	~~8000~~	~~1754360~~	~~0.889~~	~~6.72~~

AVE RF **0.657** RF RSD **35.29** AVE RT **6.71**

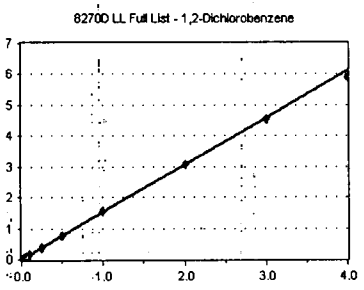
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

1,2-Dichlorobenzene

Curve Fit: **AVERAGE RF**

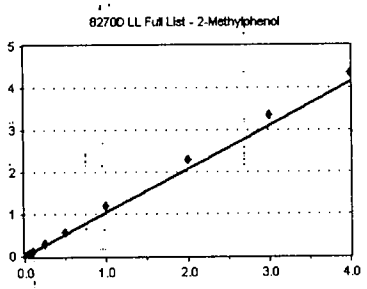


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	7137	1.501	6.74
0A03043-CAL2	50	18524	1.522	6.74
0A03043-CAL3	100	38081	1.561	6.74
0A03043-CAL4	200	77787	1.540	6.74
0A03043-CAL5	500	196864	1.563	6.74
0A03043-CAL6	1000	384885	1.542	6.74
0A03043-CAL7	2000	779040	1.544	6.74
0A03043-CAL8	4000	1540746	1.541	6.74
0A03043-CAL9	6000	2272810	1.517	6.74
0A03043-CALA	8000	2908040	1.473	6.75

AVE RF **1.530** RF RSD **1.81** AVE RT **6.74**

2-Methylphenol

Curve Fit: **AVERAGE RF**

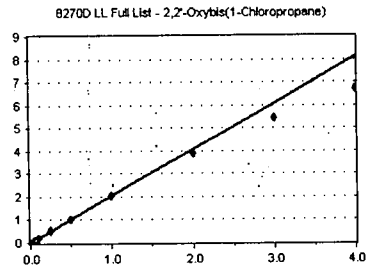


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	3477	0.731	6.81
0A03043-CAL2	50	9996	0.821	6.81
0A03043-CAL3	100	23024	0.944	6.81
0A03043-CAL4	200	53750	1.064	6.81
0A03043-CAL5	500	143450	1.139	6.81
0A03043-CAL6	1000	280604	1.124	6.81
0A03043-CAL7	2000	595298	1.180	6.81
0A03043-CAL8	4000	1154342	1.154	6.82
0A03043-CAL9	6000	1672615	1.116	6.82
0A03043-CALA	8000	2144839	1.086	6.82

AVE RF **1.036** RF RSD **14.75** AVE RT **6.82**

2,2'-Oxybis(1-Chloropropane)

Curve Fit: **AVERAGE RF**

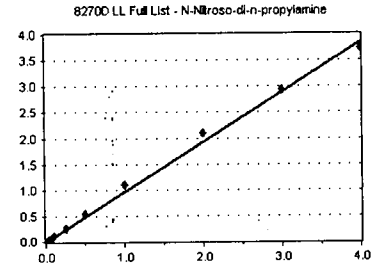


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	10207	2.147	6.83
0A03043-CAL2	50	25871	2.126	6.84
0A03043-CAL3	100	52564	2.155	6.83
0A03043-CAL4	200	109409	2.166	6.83
0A03043-CAL5	500	269194	2.137	6.83
0A03043-CAL6	1000	519660	2.082	6.83
0A03043-CAL7	2000	1034365	2.049	6.84
0A03043-CAL8	4000	1936315	1.936	6.84
0A03043-CAL9	6000	2711936	1.810	6.84
0A03043-CALA	8000	3325555	1.684	6.84

AVE RF **2.029** RF RSD **8.18** AVE RT **6.83**

N-Nitroso-di-n-propylamine

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	3602	0.758	6.96
0A03043-CAL2	50	9820	0.807	6.96
0A03043-CAL3	100	21191	0.869	6.96
0A03043-CAL4	200	49241	0.975	6.96
0A03043-CAL5	500	134624	1.069	6.96
0A03043-CAL6	1000	267406	1.071	6.96
0A03043-CAL7	2000	556819	1.103	6.96
0A03043-CAL8	4000	1050413	1.050	6.97
0A03043-CAL9	6000	1467043	0.979	6.97
0A03043-CALA	8000	1848808	0.936	6.99

AVE RF **0.962** RF RSD **12.34** AVE RT **6.96**

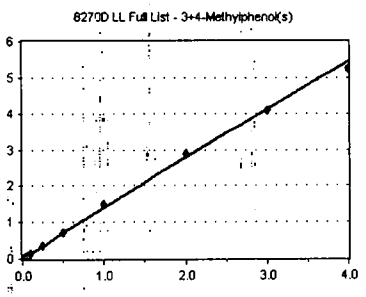
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

3+4-Methylphenol(s)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

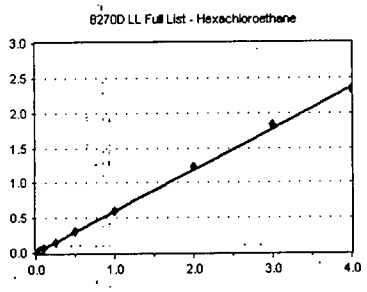


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	3892	0.819	6.96
0A03043-CAL2	50	13183	1.083	6.96
0A03043-CAL3	100	29534	1.211	6.96
0A03043-CAL4	200	65704	1.301	6.96
0A03043-CAL5	500	179686	1.426	6.96
0A03043-CAL6	1000	354520	1.420	6.96
0A03043-CAL7	2000	753866	1.494	6.96
0A03043-CAL8	4000	1450098	1.450	6.97
0A03043-CAL9	6000	2041349	1.362	6.97
0A03043-CALA	8000	2596442	1.315	6.98

AVE RF **1.288** RF RSD **15.95** AVE RT **6.97**

Hexachloroethane

Curve Fit: **AVERAGE RF**

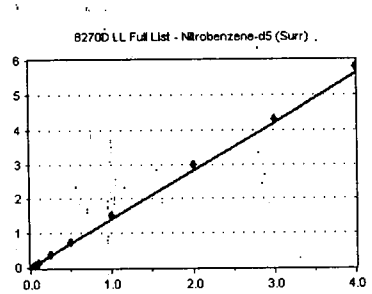


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	2508	0.528	7.07
0A03043-CAL2	50	7066	0.581	7.07
0A03043-CAL3	100	14042	0.576	7.07
0A03043-CAL4	200	29865	0.591	7.07
0A03043-CAL5	500	75990	0.603	7.07
0A03043-CAL6	1000	149765	0.600	7.07
0A03043-CAL7	2000	306866	0.608	7.07
0A03043-CAL8	4000	617724	0.618	7.07
0A03043-CAL9	6000	913964	0.610	7.07
0A03043-CALA	8000	1156381	0.586	7.07

AVE RF **0.590** RF RSD **4.37** AVE RT **7.07**

Nitrobenzene-d5 (Surr)

Curve Fit: **AVERAGE RF**

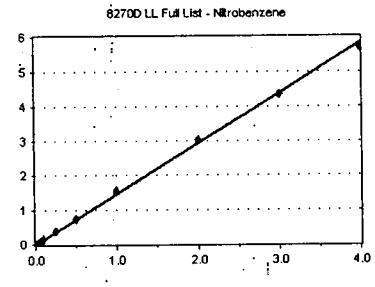


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	5659	1.190	7.11
0A03043-CAL2	50	14881	1.223	7.11
0A03043-CAL3	100	32200	1.320	7.11
0A03043-CAL4	200	70112	1.388	7.11
0A03043-CAL5	500	188653	1.497	7.11
0A03043-CAL6	1000	366422	1.468	7.11
0A03043-CAL7	2000	776886	1.539	7.11
0A03043-CAL8	4000	1486226	1.486	7.12
0A03043-CAL9	6000	2160710	1.442	7.12
0A03043-CALA	8000	2863282	1.450	7.12

AVE RF **1.400** RF RSD **8.49** AVE RT **7.11**

Nitrobenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	6160	1.296	7.13
0A03043-CAL2	50	15937	1.309	7.13
0A03043-CAL3	100	35208	1.443	7.13
0A03043-CAL4	200	76114	1.507	7.13
0A03043-CAL5	500	196063	1.556	7.13
0A03043-CAL6	1000	379636	1.521	7.13
0A03043-CAL7	2000	788233	1.562	7.13
0A03043-CAL8	4000	1503185	1.503	7.14
0A03043-CAL9	6000	2166533	1.446	7.14
0A03043-CALA	8000	2818609	1.428	7.15

AVE RF **1.457** RF RSD **6.41** AVE RT **7.13**

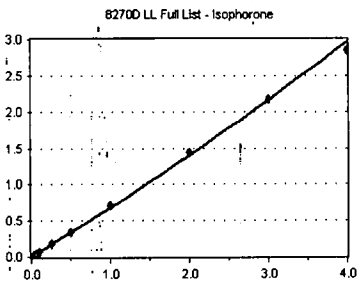
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Isophorone

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

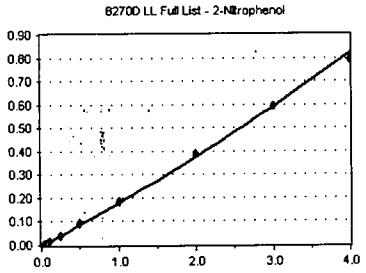


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	8585	0.453	7.36
0A03043-CAL2	50	23276	0.486	7.36
0A03043-CAL3	100	54217	0.569	7.36
0A03043-CAL4	200	120808	0.620	7.35
0A03043-CAL5	500	333964	0.682	7.36
0A03043-CAL6	1000	663603	0.696	7.35
0A03043-CAL7	2000	1425407	0.720	7.36
0A03043-CAL8	4000	2775012	0.724	7.37
0A03043-CAL9	6000	4079436	0.722	7.38
0A03043-CALA	8000	5435748	0.715	7.39

AVE RF **0.639** RF RSD **16.08** AVE RT **7.36**

2-Nitrophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

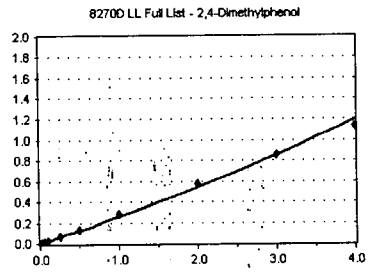


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~1482~~	~~7.818~~	~~7.45~~
0A03043-CAL2	50	4354	9.083	7.45
0A03043-CAL3	100	10479	0.110	7.45
0A03043-CAL4	200	26836	0.138	7.45
0A03043-CAL5	500	78411	0.160	7.45
0A03043-CAL6	1000	174051	0.183	7.45
0A03043-CAL7	2000	368704	0.186	7.45
0A03043-CAL8	4000	745468	0.194	7.45
0A03043-CAL9	6000	1120921	0.198	7.45
0A03043-CALA	8000	1503234	0.198	7.46

AVE RF **0.162** RF RSD **24.90** AVE RT **7.45**

2,4-Dimethylphenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

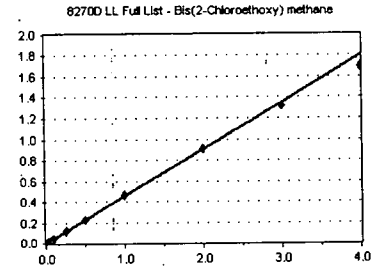


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	2442	0.129	7.48
0A03043-CAL2	50	7383	0.154	7.48
0A03043-CAL3	100	18123	0.190	7.48
0A03043-CAL4	200	44227	0.227	7.48
0A03043-CAL5	500	122100	0.249	7.48
0A03043-CAL6	1000	252097	0.264	7.48
0A03043-CAL7	2000	549720	0.278	7.48
0A03043-CAL8	4000	1088716	0.284	7.49
0A03043-CAL9	6000	1616890	0.286	7.49
0A03043-CALA	8000	2161489	0.284	7.50

AVE RF **0.235** RF RSD **24.71** AVE RT **7.49**

Bis(2-Chloroethoxy) methane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	8235	0.434	7.57
0A03043-CAL2	50	21165	0.442	7.57
0A03043-CAL3	100	43572	0.457	7.57
0A03043-CAL4	200	89063	0.457	7.57
0A03043-CAL5	500	229674	0.469	7.57
0A03043-CAL6	1000	441727	0.463	7.57
0A03043-CAL7	2000	917504	0.464	7.57
0A03043-CAL8	4000	1750929	0.457	7.57
0A03043-CAL9	6000	2481600	0.439	7.58
0A03043-CALA	8000	3234367	0.425	7.58

AVE RF **0.451** RF RSD **3.23** AVE RT **7.57**

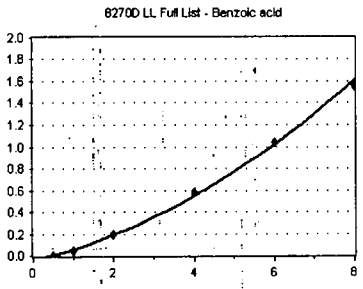
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Benzoic acid

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

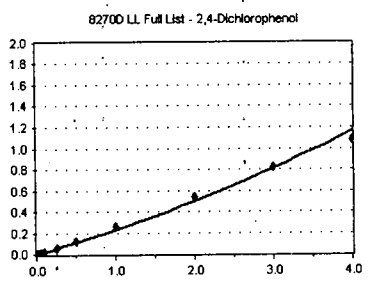


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~40~~	~~55~~	~~1.451~~	~~7.54~~
~~0A03043-CAL2~~	~~100~~	~~77~~	~~8.032~~	~~7.55~~
~~0A03043-CAL3~~	~~200~~	~~87~~	~~4.565~~	~~7.57~~
~~0A03043-CAL4~~	~~400~~	~~754~~	~~1.935~~	~~7.55~~
0A03043-CAL5	1000	8514	8.696	7.54
0A03043-CAL6	2000	81626	4.281	7.56
0A03043-CAL7	4000	383378	9.685	7.60
0A03043-CAL8	8000	1129063	0.147	7.64
0A03043-CAL9	12000	1960977	0.173	7.68
0A03043-CALA	16000	2958383	0.195	7.71

AVE RF **0.111** RF RSD **67.07** AVE RT **7.62**

2,4-Dichlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

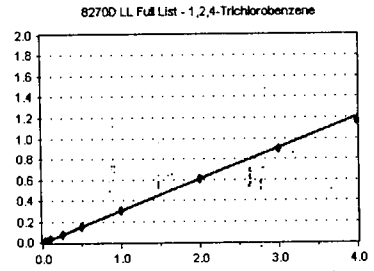


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	2484	0.131	7.69
0A03043-CAL2	50	7306	0.152	7.69
0A03043-CAL3	100	15337	0.161	7.69
0A03043-CAL4	200	36037	0.185	7.69
0A03043-CAL5	500	107012	0.219	7.69
0A03043-CAL6	1000	226242	0.237	7.69
0A03043-CAL7	2000	504397	0.255	7.69
0A03043-CAL8	4000	1029490	0.268	7.69
0A03043-CAL9	6000	1548848	0.274	7.70
0A03043-CALA	8000	2058663	0.271	7.70

AVE RF **0.215** RF RSD **25.12** AVE RT **7.69**

1,2,4-Trichlorobenzene

Curve Fit: **AVERAGE RF**

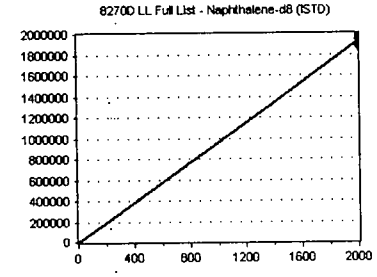


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	5710	0.301	7.77
0A03043-CAL2	50	14577	0.304	7.77
0A03043-CAL3	100	29576	0.310	7.77
0A03043-CAL4	200	59589	0.306	7.77
0A03043-CAL5	500	151524	0.310	7.77
0A03043-CAL6	1000	291731	0.306	7.77
0A03043-CAL7	2000	603934	0.305	7.77
0A03043-CAL8	4000	1162895	0.303	7.77
0A03043-CAL9	6000	1697108	0.300	7.77
0A03043-CALA	8000	2214487	0.291	7.78

AVE RF **0.304** RF RSD **1.78** AVE RT **7.77**

Naphthalene-d8 (ISTD)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	2000	1895566	947.783	7.82
0A03043-CAL2	2000	1917336	958.668	7.83
0A03043-CAL3	2000	1905993	952.996	7.83
0A03043-CAL4	2000	1948419	974.209	7.83
0A03043-CAL5	2000	1958057	979.029	7.83
0A03043-CAL6	2000	1906856	953.428	7.83
0A03043-CAL7	2000	1979184	989.592	7.83
0A03043-CAL8	2000	1917518	958.759	7.83
0A03043-CAL9	2000	1884040	942.020	7.83
0A03043-CALA	2000	1900603	950.301	7.83

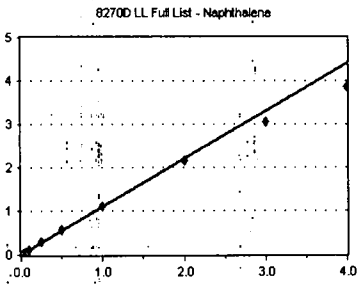
AVE RF **960.679** RF RSD **1.59** AVE RT **7.83**

Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Naphthalene

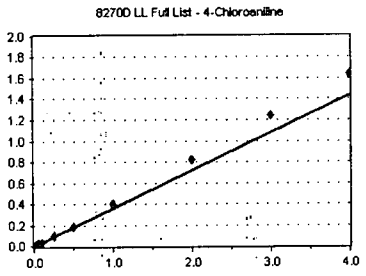


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	21461	1.132	7.84
0A03043-CAL2	50	54595	1.139	7.84
0A03043-CAL3	100	110303	1.157	7.84
0A03043-CAL4	200	225156	1.156	7.84
0A03043-CAL5	500	558795	1.142	7.85
0A03043-CAL6	1000	1071313	1.124	7.85
0A03043-CAL7	2000	2186779	1.105	7.85
0A03043-CAL8	4000	4129022	1.077	7.85
0A03043-CAL9	6000	5742192	1.016	7.85
0A03043-CALA	8000	7367424	0.969	7.86

AVE RF **1.102** RF RSD **5.74** AVE RT **7.85**

4-Chloroaniline

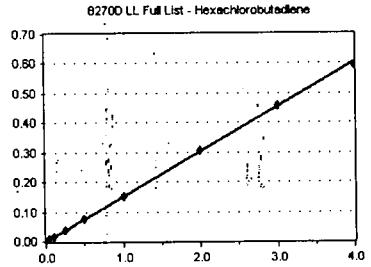


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	5210	0.275	7.89
0A03043-CAL2	50	13348	0.278	7.89
0A03043-CAL3	100	31638	0.332	7.89
0A03043-CAL4	200	66808	0.343	7.89
0A03043-CAL5	500	187047	0.382	7.89
0A03043-CAL6	1000	340843	0.357	7.89
0A03043-CAL7	2000	791193	0.400	7.90
0A03043-CAL8	4000	1581022	0.412	7.90
0A03043-CAL9	6000	2332698	0.413	7.91
0A03043-CALA	8000	3124262	0.411	7.91

AVE RF **0.360** RF RSD **14.67** AVE RT **7.90**

Hexachlorobutadiene

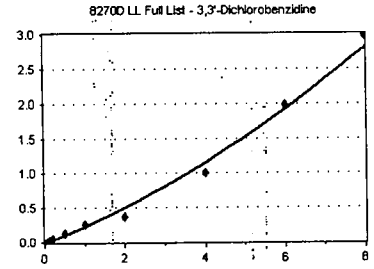


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	2836	0.150	7.98
0A03043-CAL2	50	7076	0.148	7.97
0A03043-CAL3	100	14656	0.154	7.97
0A03043-CAL4	200	29572	0.152	7.97
0A03043-CAL5	500	74852	0.153	7.97
0A03043-CAL6	1000	145079	0.152	7.97
0A03043-CAL7	2000	298064	0.151	7.97
0A03043-CAL8	4000	586720	0.153	7.97
0A03043-CAL9	6000	860562	0.152	7.97
0A03043-CALA	8000	1131591	0.149	7.98

AVE RF **0.151** RF RSD **1.33** AVE RT **7.97**

3,3'-Dichlorobenzidine



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~40~~	~~2650~~	~~0.112~~	~~0.00~~
0A03043-CAL2	100	6955	0.117	0.00
0A03043-CAL3	200	18508	0.156	0.00
0A03043-CAL4	400	52705	0.217	0.00
0A03043-CAL5	1000	176527	0.274	0.00
0A03043-CAL6	2000	315549	0.255	14.81
0A03043-CAL7	4000	498566	0.183	14.81
0A03043-CAL8	8000	1259671	0.251	14.82
0A03043-CAL9	12000	2366422	0.331	14.83
0A03043-CALA	16000	3772307	0.372	14.84

AVE RF **0.240** RF RSD **34.00** AVE RT **8.23**

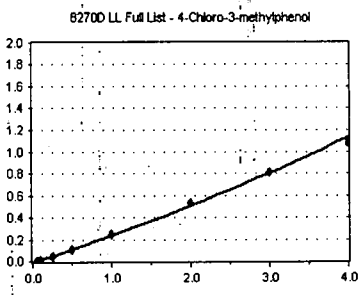
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

4-Chloro-3-methylphenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

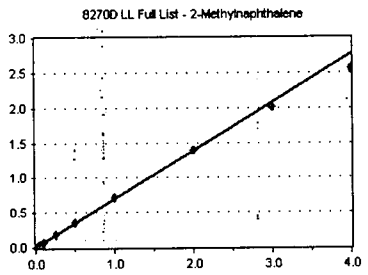


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~266~~	~~1.403~~	~~8.40~~
~~0A03043-CAL2~~	~~50~~	~~2312~~	~~4.823~~	~~8.39~~
0A03043-CAL3	100	8551	8.973	8.39
0A03043-CAL4	200	24993	0.128	8.39
0A03043-CAL5	500	92552	0.189	8.39
0A03043-CAL6	1000	208385	0.219	8.38
0A03043-CAL7	2000	502114	0.254	8.39
0A03043-CAL8	4000	1022846	0.267	8.39
0A03043-CAL9	6000	1532205	0.271	8.39
0A03043-CALA	8000	2057267	0.271	8.39

AVE RF **0.211** RF RSD **33.12** AVE RT **8.39**

2-Methylnaphthalene

Curve Fit: **AVERAGE RF**

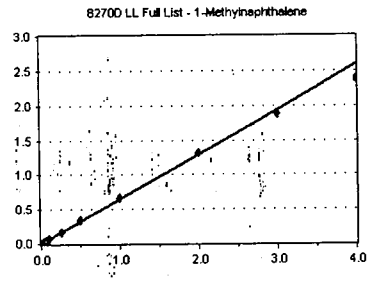


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	12880	0.679	8.54
0A03043-CAL2	50	32321	0.674	8.54
0A03043-CAL3	100	66280	0.695	8.54
0A03043-CAL4	200	137571	0.706	8.54
0A03043-CAL5	500	356479	0.728	8.54
0A03043-CAL6	1000	678753	0.712	8.54
0A03043-CAL7	2000	1421681	0.718	8.54
0A03043-CAL8	4000	2673098	0.697	8.54
0A03043-CAL9	6000	3784022	0.669	8.55
0A03043-CALA	8000	4862630	0.640	8.55

AVE RF **0.692** RF RSD **3.84** AVE RT **8.54**

1-Methylnaphthalene

Curve Fit: **AVERAGE RF**

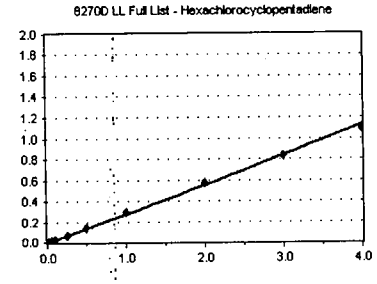


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	11803	0.623	8.64
0A03043-CAL2	50	30209	0.630	8.64
0A03043-CAL3	100	62932	0.660	8.64
0A03043-CAL4	200	129679	0.666	8.64
0A03043-CAL5	500	331021	0.676	8.64
0A03043-CAL6	1000	638851	0.670	8.64
0A03043-CAL7	2000	1331533	0.673	8.64
0A03043-CAL8	4000	2513613	0.655	8.64
0A03043-CAL9	6000	3546386	0.627	8.65
0A03043-CALA	8000	4518196	0.594	8.65

AVE RF **0.648** RF RSD **4.21** AVE RT **8.64**

Hexachlorocyclopentadiene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	1122	0.134	8.71
0A03043-CAL2	50	3658	0.175	8.71
0A03043-CAL3	100	9066	0.216	8.71
0A03043-CAL4	200	20719	0.243	8.71
0A03043-CAL5	500	61510	0.277	8.71
0A03043-CAL6	1000	123772	0.288	8.71
0A03043-CAL7	2000	270751	0.293	8.71
0A03043-CAL8	4000	511569	0.286	8.71
0A03043-CAL9	6000	725959	0.276	8.71
0A03043-CALA	8000	969144	0.274	8.71

AVE RF **0.246** RF RSD **22.09** AVE RT **8.71**

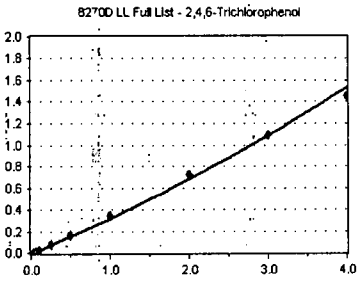
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

2,4,6-Trichlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

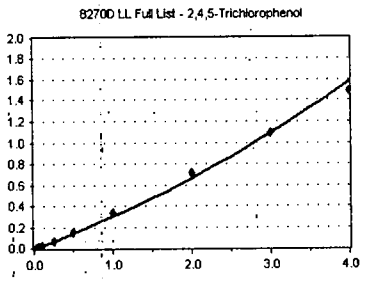


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~915~~	~~0.110~~	~~8.83~~
0A03043-CAL2	50	2952	0.141	8.83
0A03043-CAL3	100	7001	0.167	8.83
0A03043-CAL4	200	19198	0.225	8.83
0A03043-CAL5	500	64304	0.290	8.83
0A03043-CAL6	1000	136129	0.316	8.83
0A03043-CAL7	2000	320738	0.347	8.83
0A03043-CAL8	4000	649969	0.364	8.83
0A03043-CAL9	6000	953608	0.363	8.83
0A03043-CALA	8000	1286536	0.364	8.84

AVE RF **0.286** RF RSD **30.62** AVE RT **8.83**

2,4,5-Trichlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

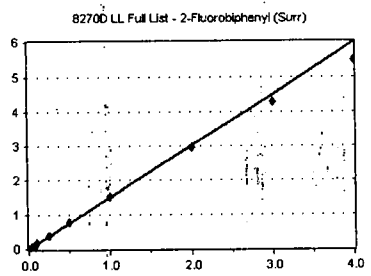


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~985~~	~~0.118~~	~~8.87~~
0A03043-CAL2	50	2558	0.122	8.87
0A03043-CAL3	100	7063	0.169	8.87
0A03043-CAL4	200	16135	0.190	8.87
0A03043-CAL5	500	56224	0.253	8.87
0A03043-CAL6	1000	125855	0.293	8.86
0A03043-CAL7	2000	310840	0.336	8.87
0A03043-CAL8	4000	632824	0.354	8.87
0A03043-CAL9	6000	958888	0.365	8.87
0A03043-CALA	8000	1316182	0.372	8.87

AVE RF **0.273** RF RSD **34.38** AVE RT **8.87**

2-Fluorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**

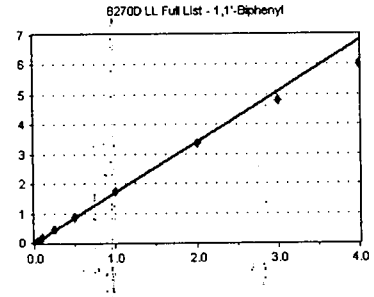


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	12787	1.532	8.91
0A03043-CAL2	50	31127	1.485	8.91
0A03043-CAL3	100	64112	1.531	8.91
0A03043-CAL4	200	133144	1.564	8.91
0A03043-CAL5	500	346331	1.560	8.91
0A03043-CAL6	1000	661648	1.538	8.91
0A03043-CAL7	2000	1402629	1.517	8.91
0A03043-CAL8	4000	2633602	1.473	8.91
0A03043-CAL9	6000	3753013	1.428	8.91
0A03043-CALA	8000	4835855	1.368	8.92

AVE RF **1.500** RF RSD **4.16** AVE RT **8.91**

1,1'-Biphenyl

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	13879	1.663	9.01
0A03043-CAL2	50	37152	1.773	9.01
0A03043-CAL3	100	72834	1.739	9.01
0A03043-CAL4	200	152733	1.794	9.01
0A03043-CAL5	500	393702	1.773	9.01
0A03043-CAL6	1000	756962	1.760	9.01
0A03043-CAL7	2000	1613691	1.745	9.01
0A03043-CAL8	4000	3005594	1.682	9.01
0A03043-CAL9	6000	4205149	1.600	9.02
0A03043-CALA	8000	5320273	1.505	9.02

AVE RF **1.703** RF RSD **5.41** AVE RT **9.01**

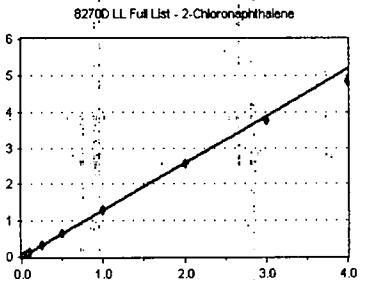
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

2-Chloronaphthalene

Curve Fit: **AVERAGE RF**

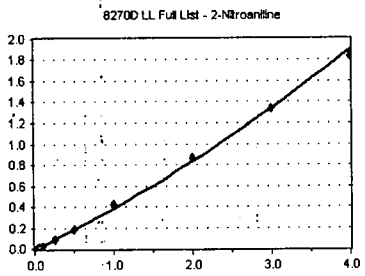


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	10638	1.275	9.03
0A03043-CAL2	50	27431	1.309	9.03
0A03043-CAL3	100	54773	1.308	9.03
0A03043-CAL4	200	114688	1.347	9.03
0A03043-CAL5	500	296309	1.335	9.03
0A03043-CAL6	1000	564377	1.312	9.03
0A03043-CAL7	2000	1207366	1.305	9.03
0A03043-CAL8	4000	2292714	1.283	9.04
0A03043-CAL9	6000	3294607	1.253	9.04
0A03043-CALA	8000	4279693	1.211	9.04

AVE RF **1.294** RF RSD **3.10** AVE RT **9.03**

2-Nitroaniline

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

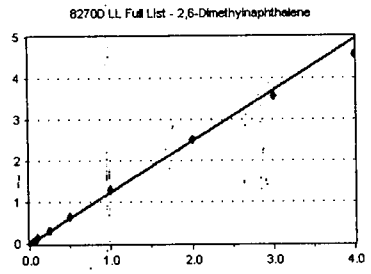


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~1248~~	~~0.150~~	~~9.13~~
0A03043-CAL2	50	3307	0.158	9.14
0A03043-CAL3	100	8063	0.192	9.14
0A03043-CAL4	200	22822	0.268	9.14
0A03043-CAL5	500	77021	0.347	9.14
0A03043-CAL6	1000	162558	0.378	9.14
0A03043-CAL7	2000	388148	0.420	9.14
0A03043-CAL8	4000	773442	0.433	9.14
0A03043-CAL9	6000	1172303	0.446	9.15
0A03043-CALA	8000	1623006	0.459	9.15

AVE RF **0.345** RF RSD **32.74** AVE RT **9.14**

2,6-Dimethylnaphthalene

Curve Fit: **AVERAGE RF**

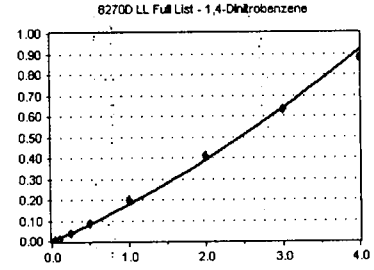


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	9694	1.162	9.17
0A03043-CAL2	50	24983	1.192	9.17
0A03043-CAL3	100	52251	1.247	9.17
0A03043-CAL4	200	109804	1.290	9.17
0A03043-CAL5	500	293588	1.322	9.17
0A03043-CAL6	1000	557856	1.297	9.17
0A03043-CAL7	2000	1193853	1.291	9.17
0A03043-CAL8	4000	2235536	1.251	9.17
0A03043-CAL9	6000	3134415	1.192	9.18
0A03043-CALA	8000	4041095	1.143	9.18

AVE RF **1.239** RF RSD **5.06** AVE RT **9.17**

1,4-Dinitrobenzene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~392~~	~~4.697~~	~~9.26~~
0A03043-CAL2	50	1373	6.552	9.26
0A03043-CAL3	100	3601	8.597	9.26
0A03043-CAL4	200	9528	0.112	9.26
0A03043-CAL5	500	33901	0.153	9.26
0A03043-CAL6	1000	75328	0.175	9.26
0A03043-CAL7	2000	183130	0.198	9.26
0A03043-CAL8	4000	367510	0.206	9.27
0A03043-CAL9	6000	554224	0.211	9.27
0A03043-CALA	8000	776905	0.220	9.28

AVE RF **0.158** RF RSD **36.45** AVE RT **9.27**

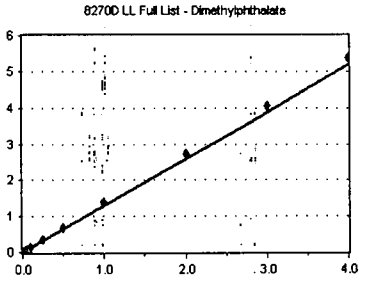
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Dimethylphthalate

Curve Fit: **AVERAGE RF**

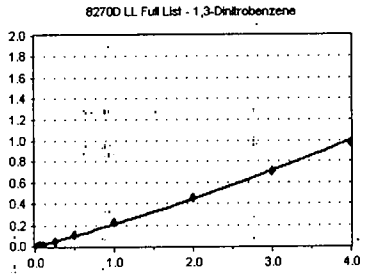


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	8447	1.012	9.31
0A03043-CAL2	50	23547	1.124	9.31
0A03043-CAL3	100	51592	1.232	9.31
0A03043-CAL4	200	112983	1.327	9.31
0A03043-CAL5	500	309349	1.393	9.31
0A03043-CAL6	1000	592242	1.377	9.31
0A03043-CAL7	2000	1301962	1.408	9.32
0A03043-CAL8	4000	2445753	1.368	9.33
0A03043-CAL9	6000	3557937	1.353	9.33
0A03043-CALA	8000	4758932	1.346	9.34

AVE RF **1.294** RF RSD **10.14** AVE RT **9.32**

1,3-Dinitrobenzene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

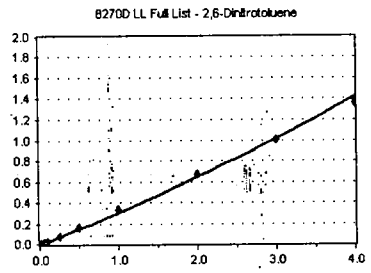


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~564~~	~~6.758~~	~~9.35~~
0A03043-CAL2	50	1944	9.277	9.34
0A03043-CAL3	100	4585	0.109	9.34
0A03043-CAL4	200	12395	0.146	9.34
0A03043-CAL5	500	42174	0.190	9.34
0A03043-CAL6	1000	88966	0.207	9.34
0A03043-CAL7	2000	210030	0.227	9.35
0A03043-CAL8	4000	409603	0.229	9.35
0A03043-CAL9	6000	616328	0.234	9.36
0A03043-CALA	8000	859472	0.243	9.37

AVE RF **0.186** RF RSD **30.45** AVE RT **9.35**

2,6-Dinitrotoluene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

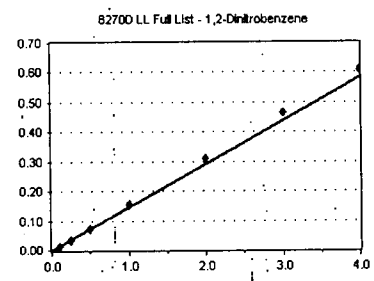


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	883	0.106	9.37
0A03043-CAL2	50	3457	0.165	9.37
0A03043-CAL3	100	8554	0.204	9.37
0A03043-CAL4	200	22331	0.262	9.37
0A03043-CAL5	500	68199	0.307	9.37
0A03043-CAL6	1000	135677	0.315	9.38
0A03043-CAL7	2000	307800	0.333	9.38
0A03043-CAL8	4000	598606	0.335	9.38
0A03043-CAL9	6000	885418	0.337	9.39
0A03043-CALA	8000	1201916	0.340	9.39

AVE RF **0.270** RF RSD **31.02** AVE RT **9.38**

1,2-Dinitrobenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~460~~	~~5.512~~	~~9.42~~
~~0A03043-CAL2~~	~~50~~	~~1583~~	~~7.554~~	~~9.43~~
~~0A03043-CAL3~~	~~100~~	~~3933~~	~~0.094~~	~~9.43~~
0A03043-CAL4	200	10056	0.118	9.43
0A03043-CAL5	500	30873	0.139	9.43
0A03043-CAL6	1000	62315	0.145	9.43
0A03043-CAL7	2000	144775	0.157	9.44
0A03043-CAL8	4000	276422	0.155	9.45
0A03043-CAL9	6000	408936	0.156	9.45
0A03043-CALA	8000	539197	0.153	9.46

AVE RF **0.146** RF RSD **9.48** AVE RT **9.44**

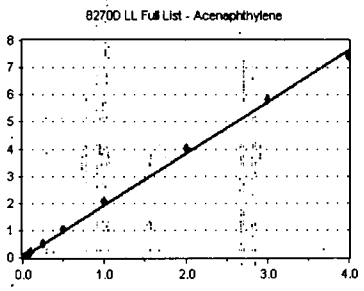
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Acenaphthylene

Curve Fit: **AVERAGE RF**

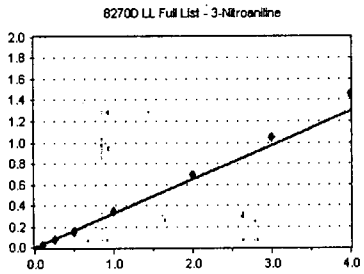


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	12812	1.535	9.45
0A03043-CAL2	50	35698	1.704	9.45
0A03043-CAL3	100	78588	1.876	9.45
0A03043-CAL4	200	171273	2.012	9.45
0A03043-CAL5	500	456186	2.055	9.45
0A03043-CAL6	1000	885311	2.058	9.46
0A03043-CAL7	2000	1925694	2.082	9.46
0A03043-CAL8	4000	3589358	2.008	9.46
0A03043-CAL9	6000	5105139	1.942	9.46
0A03043-CALA	8000	6556077	1.854	9.47

AVE RF **1.913** RF RSD **9.24** AVE RT **9.46**

3-Nitroaniline

Curve Fit: **AVERAGE RF**

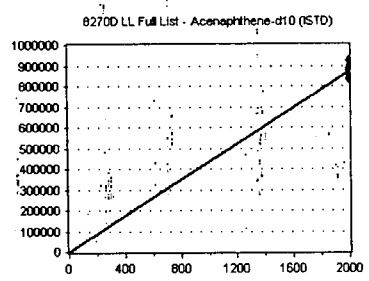


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~878~~	~~0.105~~	~~9.55~~
~~0A03043-CAL2~~	~~50~~	~~3162~~	~~0.151~~	~~9.55~~
~~0A03043-CAL3~~	~~100~~	~~8796~~	~~0.210~~	~~9.55~~
0A03043-CAL4	200	22176	0.260	9.55
0A03043-CAL5	500	67407	0.304	9.55
0A03043-CAL6	1000	131598	0.306	9.55
0A03043-CAL7	2000	315519	0.341	9.55
0A03043-CAL8	4000	621137	0.348	9.56
0A03043-CAL9	6000	921685	0.351	9.56
0A03043-CALA	8000	1294091	0.366	9.57

AVE RF **0.325** RF RSD **11.30** AVE RT **9.56**

Acenaphthene-d10 (ISTD)

Curve Fit: **AVERAGE RF**

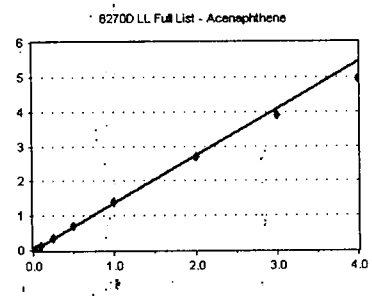


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	2000	834569	417.284	9.60
0A03043-CAL2	2000	838213	419.107	9.60
0A03043-CAL3	2000	837730	418.865	9.60
0A03043-CAL4	2000	851449	425.724	9.60
0A03043-CAL5	2000	888072	444.036	9.60
0A03043-CAL6	2000	860224	430.112	9.60
0A03043-CAL7	2000	924869	462.434	9.60
0A03043-CAL8	2000	893655	446.828	9.60
0A03043-CAL9	2000	876237	438.118	9.61
0A03043-CALA	2000	883828	441.914	9.61

AVE RF **434.442** RF RSD **3.40** AVE RT **9.60**

Acenaphthene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	11327	1.357	9.63
0A03043-CAL2	50	28357	1.353	9.63
0A03043-CAL3	100	58838	1.405	9.63
0A03043-CAL4	200	120057	1.410	9.63
0A03043-CAL5	500	314131	1.415	9.63
0A03043-CAL6	1000	600226	1.396	9.63
0A03043-CAL7	2000	1292033	1.397	9.63
0A03043-CAL8	4000	2408743	1.348	9.64
0A03043-CAL9	6000	3396356	1.292	9.64
0A03043-CALA	8000	4391282	1.242	9.64

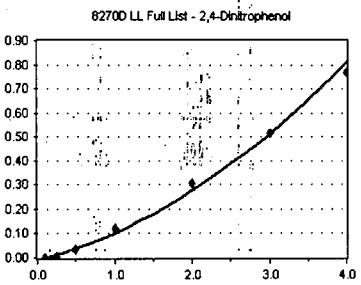
AVE RF **1.361** RF RSD **4.16** AVE RT **9.63**

Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

2,4-Dinitrophenol

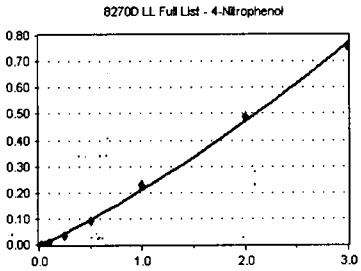


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~0~~	~~0.000~~	~~0.00~~
~~0A03043-CAL2~~	~~50~~	~~0~~	~~0.000~~	~~0.00~~
~~0A03043-CAL3~~	~~100~~	~~0~~	~~0.000~~	~~0.00~~
0A03043-CAL4	200	485	5.696	9.66
0A03043-CAL5	500	6170	2.779	9.65
0A03043-CAL6	1000	28980	0.067	9.65
0A03043-CAL7	2000	114534	0.124	9.66
0A03043-CAL8	4000	274354	0.154	9.66
0A03043-CAL9	6000	450010	0.171	9.67
0A03043-CALA	8000	680486	0.192	9.68

AVE RF **0.106** RF RSD **68.88** AVE RT **9.66**

4-Nitrophenol

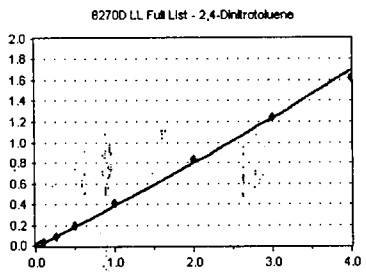


Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~67~~	~~8.028~~	~~9.75~~
0A03043-CAL2	50	379	0.018	9.74
0A03043-CAL3	100	1654	3.949	9.73
0A03043-CAL4	200	5758	6.763	9.73
0A03043-CAL5	500	28987	0.131	9.72
0A03043-CAL6	1000	77659	0.181	9.72
0A03043-CAL7	2000	211014	0.228	9.73
0A03043-CAL8	4000	436738	0.244	9.73
0A03043-CAL9	6000	662579	0.252	9.74
~~0A03043-CALA~~	~~8000~~	~~944555~~	~~0.267~~	~~9.75~~

AVE RF **0.145** RF RSD **65.35** AVE RT **9.73**

2,4-Dinitrotoluene

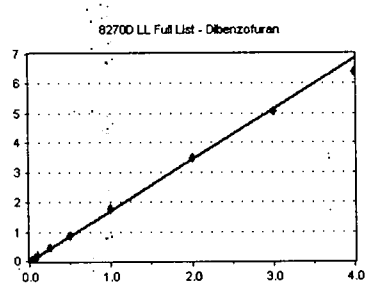


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~1133~~	~~0.136~~	~~9.79~~
0A03043-CAL2	50	3119	0.149	9.79
0A03043-CAL3	100	8732	0.208	9.78
0A03043-CAL4	200	23686	0.278	9.78
0A03043-CAL5	500	80488	0.363	9.78
0A03043-CAL6	1000	163810	0.381	9.79
0A03043-CAL7	2000	384725	0.416	9.79
0A03043-CAL8	4000	746905	0.418	9.80
0A03043-CAL9	6000	1092849	0.416	9.80
0A03043-CALA	8000	1431584	0.405	9.81

AVE RF **0.337** RF RSD **29.96** AVE RT **9.79**

Dibenzofuran



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	13845	1.659	9.80
0A03043-CAL2	50	34590	1.651	9.80
0A03043-CAL3	100	72986	1.742	9.80
0A03043-CAL4	200	150152	1.763	9.80
0A03043-CAL5	500	397757	1.792	9.80
0A03043-CAL6	1000	752309	1.749	9.80
0A03043-CAL7	2000	1650897	1.785	9.81
0A03043-CAL8	4000	3099739	1.734	9.81
0A03043-CAL9	6000	4430577	1.685	9.81
0A03043-CALA	8000	5661111	1.601	9.81

AVE RF **1.716** RF RSD **3.71** AVE RT **9.81**

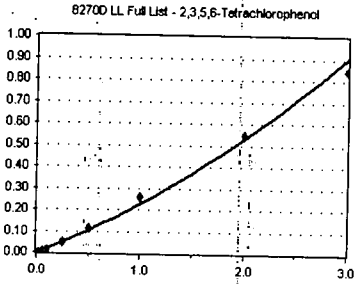
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

2,3,5,6-Tetrachlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

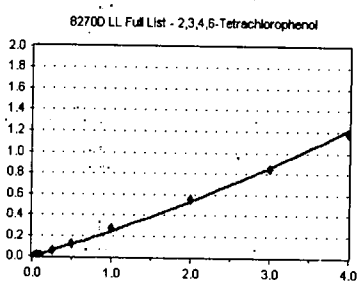


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~296~~	~~3.547~~	~~9.90~~
0A03043-CAL2	50	888	4.238	9.90
0A03043-CAL3	100	2885	6.888	9.89
0A03043-CAL4	200	10235	0.120	9.89
0A03043-CAL5	500	42876	0.193	9.89
0A03043-CAL6	1000	96867	0.225	9.89
0A03043-CAL7	2000	242365	0.262	9.90
0A03043-CAL8	4000	488523	0.273	9.89
0A03043-CAL9	6000	740212	0.282	9.90
~~0A03043-CALA~~	~~8000~~	~~1036798~~	~~0.293~~	~~9.90~~

AVE RF **0.183** RF RSD **51.64** AVE RT **9.89**

2,3,4,6-Tetrachlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

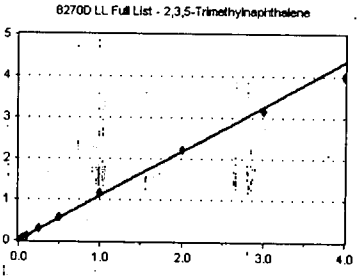


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~387~~	~~4.637~~	~~9.94~~
0A03043-CAL2	50	1885	8.995	9.94
0A03043-CAL3	100	4744	0.113	9.94
0A03043-CAL4	200	13647	0.160	9.94
0A03043-CAL5	500	48290	0.218	9.94
0A03043-CAL6	1000	101935	0.237	9.94
0A03043-CAL7	2000	249893	0.270	9.94
0A03043-CAL8	4000	495426	0.277	9.94
0A03043-CAL9	6000	740968	0.282	9.94
0A03043-CALA	8000	1042101	0.295	9.95

AVE RF **0.216** RF RSD **35.60** AVE RT **9.94**

2,3,5-Trimethylnaphthalene

Curve Fit: **AVERAGE RF**

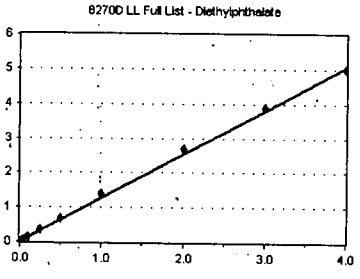


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	8497	1.018	10.01
0A03043-CAL2	50	21190	1.011	10.01
0A03043-CAL3	100	45125	1.077	10.02
0A03043-CAL4	200	95784	1.125	10.02
0A03043-CAL5	500	256000	1.153	10.02
0A03043-CAL6	1000	498210	1.158	10.02
0A03043-CAL7	2000	1071965	1.159	10.02
0A03043-CAL8	4000	1981755	1.109	10.02
0A03043-CAL9	6000	2767525	1.053	10.03
0A03043-CALA	8000	3527302	0.998	10.03

AVE RF **1.086** RF RSD **5.84** AVE RT **10.02**

Diethylphthalate

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	8015	0.960	10.02
0A03043-CAL2	50	22680	1.082	10.02
0A03043-CAL3	100	51402	1.227	10.02
0A03043-CAL4	200	111049	1.304	10.02
0A03043-CAL5	500	308387	1.389	10.02
0A03043-CAL6	1000	586678	1.364	10.03
0A03043-CAL7	2000	1303754	1.410	10.03
0A03043-CAL8	4000	2419570	1.354	10.03
0A03043-CAL9	6000	3420830	1.301	10.04
0A03043-CALA	8000	4425252	1.252	10.04

AVE RF **1.264** RF RSD **11.33** AVE RT **10.03**

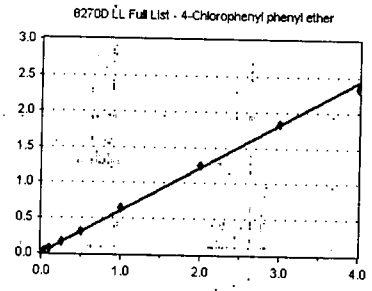
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

4-Chlorophenyl phenyl ether

Curve Fit: **AVERAGE RF**

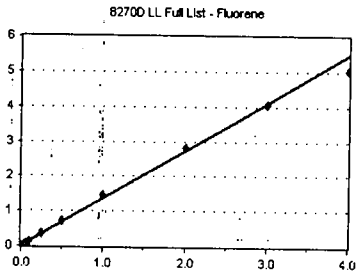


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	4448	0.533	10.15
0A03043-CAL2	50	12511	0.597	10.15
0A03043-CAL3	100	25738	0.614	10.15
0A03043-CAL4	200	53166	0.624	10.15
0A03043-CAL5	500	141768	0.639	10.15
0A03043-CAL6	1000	268925	0.625	10.15
0A03043-CAL7	2000	592818	0.641	10.15
0A03043-CAL8	4000	1114273	0.623	10.15
0A03043-CAL9	6000	1611519	0.613	10.15
0A03043-CALA	8000	2057560	0.582	10.16

AVE RF **0.609** RF RSD **5.28** AVE RT **10.15**

Fluorene

Curve Fit: **AVERAGE RF**

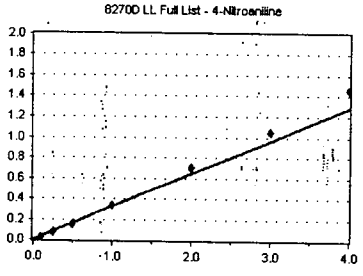


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	9806	1.175	10.15
0A03043-CAL2	50	27117	1.294	10.15
0A03043-CAL3	100	56723	1.354	10.15
0A03043-CAL4	200	121651	1.429	10.15
0A03043-CAL5	500	327226	1.474	10.15
0A03043-CAL6	1000	625886	1.455	10.16
0A03043-CAL7	2000	1362643	1.473	10.16
0A03043-CAL8	4000	2529523	1.415	10.16
0A03043-CAL9	6000	3561442	1.355	10.16
0A03043-CALA	8000	4434734	1.254	10.17

AVE RF **1.368** RF RSD **7.38** AVE RT **10.16**

4-Nitroaniline

Curve Fit: **AVERAGE RF**

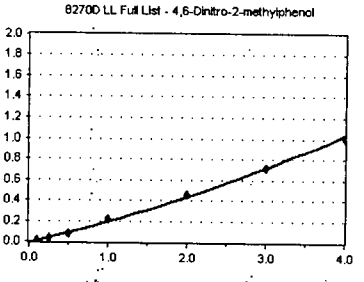


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~1015~~	~~0.122~~	~~10.17~~
~~0A03043-CAL2~~	~~50~~	~~3211~~	~~0.153~~	~~10.17~~
~~0A03043-CAL3~~	~~100~~	~~8197~~	~~0.196~~	~~10.17~~
0A03043-CAL4	200	20581	0.242	10.17
0A03043-CAL5	500	65864	0.297	10.17
0A03043-CAL6	1000	132981	0.309	10.17
0A03043-CAL7	2000	311522	0.337	10.18
0A03043-CAL8	4000	623547	0.349	10.19
0A03043-CAL9	6000	921855	0.351	10.19
0A03043-CALA	8000	1287148	0.364	10.21

AVE RF **0.321** RF RSD **13.20** AVE RT **10.18**

4,6-Dinitro-2-methylphenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~0~~	~~0.000~~	~~0.00~~
~~0A03043-CAL2~~	~~50~~	~~214~~	~~0.010~~	~~10.21~~
~~0A03043-CAL3~~	~~100~~	~~1149~~	~~2.743~~	~~10.21~~
0A03043-CAL4	200	4708	5.529	10.20
0A03043-CAL5	500	24774	0.112	10.21
0A03043-CAL6	1000	68897	0.160	10.21
0A03043-CAL7	2000	195313	0.211	10.21
0A03043-CAL8	4000	406543	0.227	10.22
0A03043-CAL9	6000	623395	0.237	10.22
0A03043-CALA	8000	888155	0.251	10.23

AVE RF **0.179** RF RSD **40.88** AVE RT **10.21**

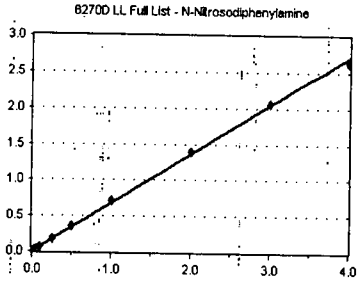
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

N-Nitrosodiphenylamine

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

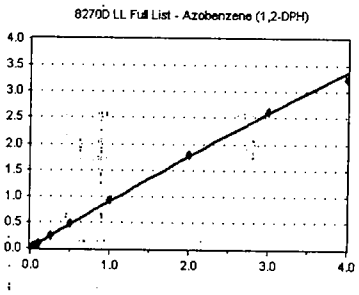


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	5776	0.423	10.26
0A03043-CAL2	50	17264	0.501	10.26
0A03043-CAL3	100	40175	0.595	10.26
0A03043-CAL4	200	91098	0.667	10.26
0A03043-CAL5	500	254198	0.707	10.27
0A03043-CAL6	1000	485424	0.705	10.27
0A03043-CAL7	2000	1083512	0.712	10.27
0A03043-CAL8	4000	2056027	0.698	10.27
0A03043-CAL9	6000	2978918	0.685	10.28
0A03043-CALA	8000	3946343	0.657	10.29

AVE RF **0.635** RF RSD **15.62** AVE RT **10.27**

Azobenzene (1,2-DPH)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

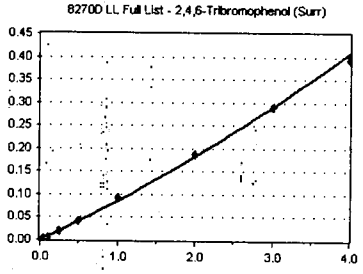


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	7231	0.530	10.31
0A03043-CAL2	50	21174	0.615	10.31
0A03043-CAL3	100	53165	0.787	10.31
0A03043-CAL4	200	120793	0.885	10.31
0A03043-CAL5	500	337552	0.939	10.31
0A03043-CAL6	1000	652931	0.948	10.31
0A03043-CAL7	2000	1425585	0.937	10.31
0A03043-CAL8	4000	2640763	0.896	10.32
0A03043-CAL9	6000	3792849	0.872	10.32
0A03043-CALA	8000	4878704	0.813	10.32

AVE RF **0.822** RF RSD **17.42** AVE RT **10.31**

2,4,6-Tribromophenol (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

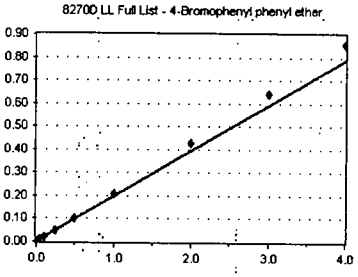


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~265~~	~~1.941~~	~~10.40~~
0A03043-CAL2	50	992	2.880	10.40
0A03043-CAL3	100	3003	4.447	10.40
0A03043-CAL4	200	8073	5.912	10.40
0A03043-CAL5	500	27900	7.764	10.40
0A03043-CAL6	1000	58198	0.084	10.40
0A03043-CAL7	2000	140215	9.220	10.40
0A03043-CAL8	4000	277672	9.424	10.41
0A03043-CAL9	6000	421341	9.688	10.41
0A03043-CALA	8000	592927	9.877	10.41

AVE RF **7.518** RF RSD **33.67** AVE RT **10.40**

4-Bromophenyl phenyl ether

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	2201	0.161	10.64
0A03043-CAL2	50	5701	0.166	10.64
0A03043-CAL3	100	12526	0.186	10.64
0A03043-CAL4	200	26535	0.194	10.64
0A03043-CAL5	500	73086	0.203	10.65
0A03043-CAL6	1000	140593	0.204	10.64
0A03043-CAL7	2000	319113	0.210	10.65
0A03043-CAL8	4000	628737	0.213	10.65
0A03043-CAL9	6000	928304	0.213	10.65
0A03043-CALA	8000	1287364	0.214	10.65

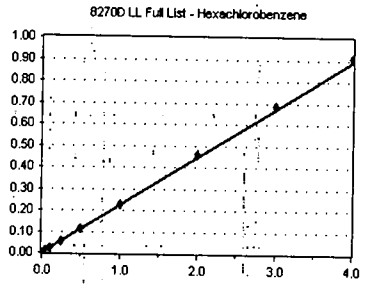
AVE RF **0.197** RF RSD **10.05** AVE RT **10.65**

Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Hexachlorobenzene

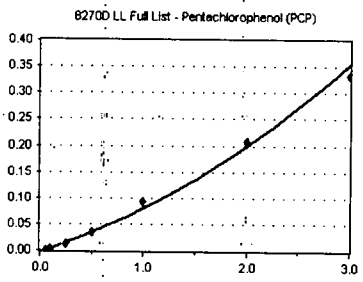


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	2801	0.205	10.72
0A03043-CAL2	50	7128	0.207	10.72
0A03043-CAL3	100	15192	0.225	10.72
0A03043-CAL4	200	31086	0.228	10.72
0A03043-CAL5	500	80846	0.225	10.73
0A03043-CAL6	1000	154747	0.225	10.73
0A03043-CAL7	2000	348501	0.229	10.73
0A03043-CAL8	4000	680811	0.231	10.73
0A03043-CAL9	6000	992767	0.228	10.73
0A03043-CALA	8000	1362036	0.227	10.74

AVE RF **0.223** RF RSD **4.11** AVE RT **10.73**

Pentachlorophenol (PCP)

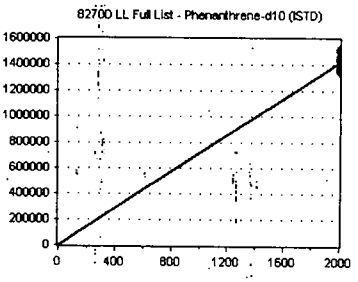


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~0~~	~~0.000~~	~~0.00~~
~~0A03043-CAL2~~	~~50~~	~~408~~	~~1.184~~	~~10.93~~
0A03043-CAL3	100	776	1.149	10.92
0A03043-CAL4	200	3076	2.253	10.92
0A03043-CAL5	500	17757	0.049	10.93
0A03043-CAL6	1000	48541	7.047	10.92
0A03043-CAL7	2000	141443	9.301	10.93
0A03043-CAL8	4000	306759	0.104	10.93
0A03043-CAL9	6000	482690	0.111	10.93
~~0A03043-CALA~~	~~8000~~	~~690537~~	~~0.115~~	~~10.93~~

AVE RF **6.600** RF RSD **59.85** AVE RT **10.92**

Phenanthrene-d10 (ISTD)

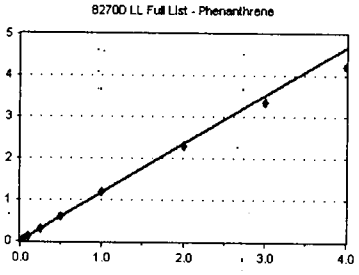


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	2000	1365527	682.764	11.11
0A03043-CAL2	2000	1377836	688.918	11.11
0A03043-CAL3	2000	1350478	675.239	11.11
0A03043-CAL4	2000	1365517	682.759	11.11
0A03043-CAL5	2000	1437447	718.724	11.11
0A03043-CAL6	2000	1377611	688.806	11.11
0A03043-CAL7	2000	1520776	760.388	11.11
0A03043-CAL8	2000	1473165	736.583	11.11
0A03043-CAL9	2000	1449708	724.854	11.11
0A03043-CALA	2000	1500835	750.418	11.11

AVE RF **710.945** RF RSD **4.39** AVE RT **11.11**

Phenanthrene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	16675	1.221	11.13
0A03043-CAL2	50	40007	1.161	11.13
0A03043-CAL3	100	80940	1.199	11.14
0A03043-CAL4	200	165121	1.209	11.13
0A03043-CAL5	500	436435	1.214	11.14
0A03043-CAL6	1000	825988	1.199	11.14
0A03043-CAL7	2000	1819065	1.196	11.14
0A03043-CAL8	4000	3383745	1.148	11.14
0A03043-CAL9	6000	4851636	1.116	11.14
0A03043-CALA	8000	6341312	1.056	11.15

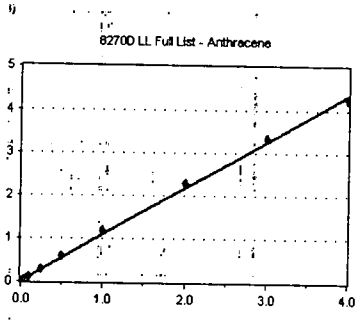
AVE RF **1.172** RF RSD **4.49** AVE RT **11.14**

Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Anthracene

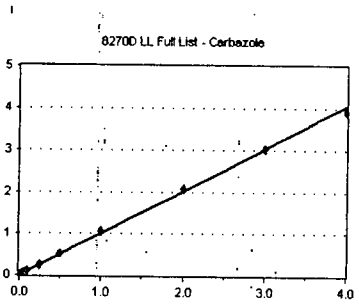


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	12067	0.884	11.18
0A03043-CAL2	50	32863	0.954	11.18
0A03043-CAL3	100	70034	1.037	11.18
0A03043-CAL4	200	151627	1.110	11.18
0A03043-CAL5	500	419778	1.168	11.18
0A03043-CAL6	1000	811319	1.178	11.18
0A03043-CAL7	2000	1810746	1.191	11.19
0A03043-CAL8	4000	3388827	1.150	11.19
0A03043-CAL9	6000	4864363	1.118	11.19
0A03043-CALA	8000	6386571	1.064	11.19

AVE RF **1.085** RF RSD **9.37** AVE RT **11.19**

Carbazole

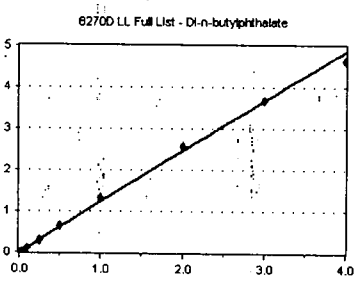


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	8650	0.633	11.34
0A03043-CAL2	50	24855	0.722	11.34
0A03043-CAL3	100	58167	0.861	11.34
0A03043-CAL4	200	129813	0.951	11.34
0A03043-CAL5	500	365307	1.017	11.34
0A03043-CAL6	1000	717912	1.042	11.35
0A03043-CAL7	2000	1608305	1.058	11.35
0A03043-CAL8	4000	3057969	1.038	11.36
0A03043-CAL9	6000	4402648	1.012	11.36
0A03043-CALA	8000	5897783	0.982	11.36

AVE RF **0.932** RF RSD **15.76** AVE RT **11.35**

Di-n-butylphthalate

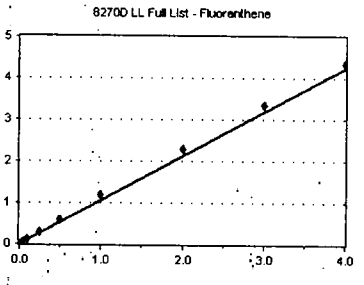


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~7511~~	~~0.550~~	~~11.69~~
0A03043-CAL2	50	22650	0.658	11.69
0A03043-CAL3	100	53972	0.799	11.69
0A03043-CAL4	200	133508	0.978	11.69
0A03043-CAL5	500	425756	1.185	11.69
0A03043-CAL6	1000	878624	1.276	11.69
0A03043-CAL7	2000	2006997	1.320	11.69
0A03043-CAL8	4000	3787415	1.285	11.69
0A03043-CAL9	6000	5312790	1.222	11.69
0A03043-CALA	8000	6994252	1.165	11.70

AVE RF **1.099** RF RSD **21.37** AVE RT **11.69**

Fluoranthene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	11112	0.814	12.39
0A03043-CAL2	50	30918	0.898	12.39
0A03043-CAL3	100	67149	0.994	12.39
0A03043-CAL4	200	146342	1.072	12.40
0A03043-CAL5	500	409865	1.141	12.40
0A03043-CAL6	1000	812591	1.180	12.40
0A03043-CAL7	2000	1794848	1.180	12.40
0A03043-CAL8	4000	3394442	1.152	12.40
0A03043-CAL9	6000	4854188	1.116	12.40
0A03043-CALA	8000	6530136	1.088	12.41

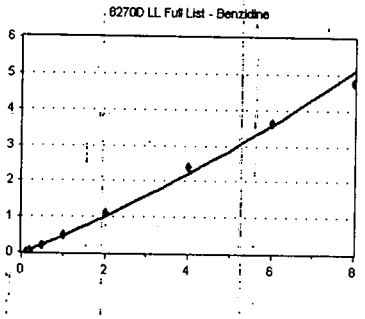
AVE RF **1.063** RF RSD **11.69** AVE RT **12.40**

Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Benzidine

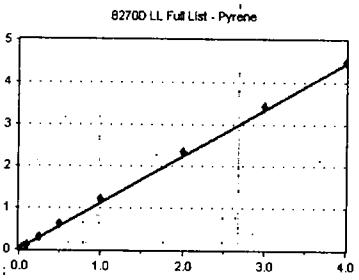


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~40~~	~~3267~~	~~0.120~~	~~12.55~~
~~0A03043-CAL2~~	~~100~~	~~6634~~	~~9.630~~	~~12.55~~
0A03043-CAL3	200	14939	0.111	12.55
0A03043-CAL4	400	56616	0.207	12.55
0A03043-CAL5	1000	266046	0.370	12.55
0A03043-CAL6	2000	657315	0.477	12.55
0A03043-CAL7	4000	1656656	0.545	12.55
0A03043-CAL8	8000	3514163	0.596	12.56
0A03043-CAL9	12000	5278133	0.607	12.56
0A03043-CALA	16000	7155359	0.596	12.57

AVE RF **0.439** RF RSD **43.64** AVE RT **12.56**

Pyrene

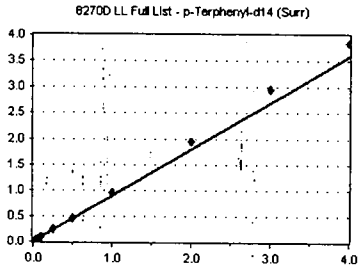


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	12007	0.879	12.68
0A03043-CAL2	50	33283	0.966	12.68
0A03043-CAL3	100	70912	1.050	12.68
0A03043-CAL4	200	157997	1.157	12.68
0A03043-CAL5	500	434797	1.210	12.68
0A03043-CAL6	1000	846544	1.229	12.68
0A03043-CAL7	2000	1853424	1.219	12.69
0A03043-CAL8	4000	3477762	1.180	12.69
0A03043-CAL9	6000	4977306	1.144	12.70
0A03043-CALA	8000	6732048	1.121	12.70

AVE RF **1.116** RF RSD **10.42** AVE RT **12.69**

p-Terphenyl-d14 (Surr)

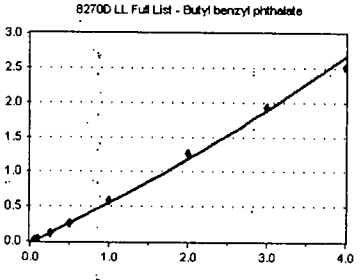


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	8728	0.739	12.88
0A03043-CAL2	50	23281	0.782	12.88
0A03043-CAL3	100	49925	0.844	12.88
0A03043-CAL4	200	110393	0.911	12.88
0A03043-CAL5	500	296503	0.921	12.88
0A03043-CAL6	1000	574970	0.928	12.88
0A03043-CAL7	2000	1290307	0.950	12.89
0A03043-CAL8	4000	2444183	0.973	12.89
0A03043-CAL9	6000	3530183	0.988	12.90
0A03043-CALA	8000	4867943	0.960	12.90

AVE RF **0.900** RF RSD **9.33** AVE RT **12.89**

Butyl benzyl phthalate



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~1933~~	~~0.164~~	~~13.68~~
~~0A03043-CAL2~~	~~50~~	~~5000~~	~~0.168~~	~~13.67~~
0A03043-CAL3	100	12225	0.207	13.68
0A03043-CAL4	200	35767	0.295	13.68
0A03043-CAL5	500	138393	0.430	13.68
0A03043-CAL6	1000	317197	0.512	13.68
0A03043-CAL7	2000	800859	0.589	13.68
0A03043-CAL8	4000	1579778	0.629	13.69
0A03043-CAL9	6000	2289212	0.641	13.69
0A03043-CALA	8000	3192518	0.630	13.69

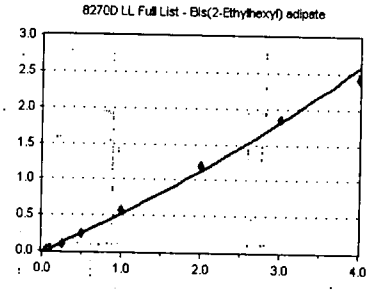
AVE RF **0.491** RF RSD **33.85** AVE RT **13.68**

Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Bis(2-Ethylhexyl) adipate

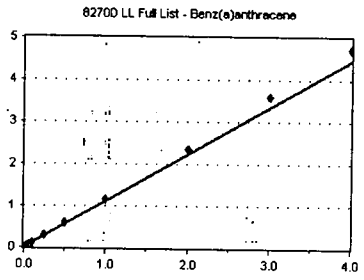


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~7074~~	~~0.599~~	~~13.84~~
~~0A03043-CAL2~~	~~50~~	~~11500~~	~~0.386~~	~~13.84~~
0A03043-CAL3	100	18058	0.305	13.85
0A03043-CAL4	200	38223	0.315	13.85
0A03043-CAL5	500	135054	0.420	13.85
0A03043-CAL6	1000	303687	0.490	13.85
0A03043-CAL7	2000	768338	0.565	13.85
0A03043-CAL8	4000	1513192	0.603	13.85
0A03043-CAL9	6000	2198969	0.615	13.85
0A03043-CALA	8000	3069810	0.606	13.86

AVE RF **0.490** RF RSD **26.40** AVE RT **13.85**

Benz(a)anthracene

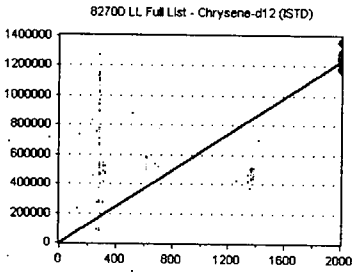


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	12605	1.068	14.83
0A03043-CAL2	50	28265	0.949	14.83
0A03043-CAL3	100	59676	1.008	14.83
0A03043-CAL4	200	132074	1.090	14.83
0A03043-CAL5	500	370992	1.152	14.84
0A03043-CAL6	1000	720837	1.163	14.84
0A03043-CAL7	2000	1596039	1.175	14.84
0A03043-CAL8	4000	2962043	1.179	14.85
0A03043-CAL9	6000	4273153	1.196	14.85
0A03043-CALA	8000	6005247	1.184	14.86

AVE RF **1.116** RF RSD **7.58** AVE RT **14.84**

Chrysene-d12 (ISTD)

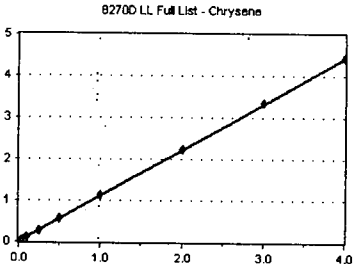


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	2000	1180641	590.321	14.85
0A03043-CAL2	2000	1190899	595.449	14.85
0A03043-CAL3	2000	1183679	591.839	14.85
0A03043-CAL4	2000	1211977	605.988	14.86
0A03043-CAL5	2000	1287737	643.868	14.86
0A03043-CAL6	2000	1239637	619.818	14.86
0A03043-CAL7	2000	1358849	679.424	14.86
0A03043-CAL8	2000	1255723	627.862	14.87
0A03043-CAL9	2000	1191264	595.632	14.87
0A03043-CALA	2000	1267468	633.734	14.88

AVE RF **618.394** RF RSD **4.63** AVE RT **14.86**

Chrysene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	12786	1.083	14.91
0A03043-CAL2	50	31715	1.065	14.91
0A03043-CAL3	100	65778	1.111	14.91
0A03043-CAL4	200	135265	1.116	14.91
0A03043-CAL5	500	358725	1.114	14.92
0A03043-CAL6	1000	691431	1.116	14.92
0A03043-CAL7	2000	1534329	1.129	14.92
0A03043-CAL8	4000	2828536	1.126	14.93
0A03043-CAL9	6000	3995368	1.118	14.94
0A03043-CALA	8000	5634616	1.111	14.95

AVE RF **1.109** RF RSD **1.78** AVE RT **14.92**

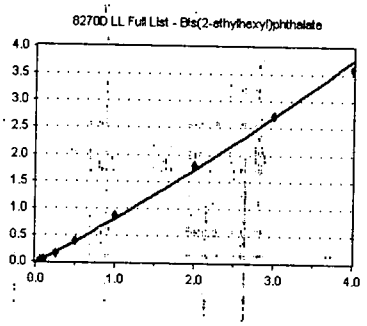
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Bis(2-ethylhexyl)phthalate

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

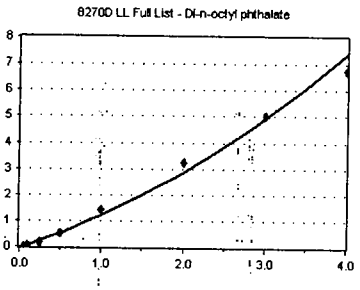


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~2425~~	~~0.205~~	~~14.99~~
~~0A03043-CAL2~~	~~50~~	~~6604~~	~~0.222~~	~~14.99~~
0A03043-CAL3	100	16782	0.284	14.99
0A03043-CAL4	200	50389	0.416	14.99
0A03043-CAL5	500	208354	0.647	15.00
0A03043-CAL6	1000	477482	0.770	14.99
0A03043-CAL7	2000	1185144	0.872	15.00
0A03043-CAL8	4000	2246628	0.895	15.00
0A03043-CAL9	6000	3237898	0.906	15.00
0A03043-CALA	8000	4576705	0.903	15.01

AVE RF **0.712** RF RSD **34.09** AVE RT **15.00**

Di-n-octyl phthalate

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

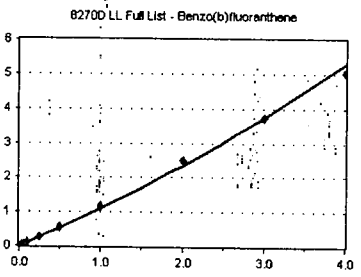


Standard	Concentration	Response	Response Factor	RT
~~0A03043-CAL1~~	~~20~~	~~2915~~	~~0.278~~	~~16.64~~
~~0A03043-CAL2~~	~~50~~	~~7017~~	~~0.266~~	~~16.64~~
0A03043-CAL3	100	16101	0.304	16.65
0A03043-CAL4	200	44543	0.412	16.65
0A03043-CAL5	500	217227	0.753	16.66
0A03043-CAL6	1000	592275	1.072	16.66
0A03043-CAL7	2000	1744039	1.413	16.66
0A03043-CAL8	4000	3512667	1.619	16.66
0A03043-CAL9	6000	5128757	1.679	16.67
0A03043-CALA	8000	7399905	1.692	16.67

AVE RF **1.118** RF RSD **51.03** AVE RT **16.66**

Benzo(b)fluoranthene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

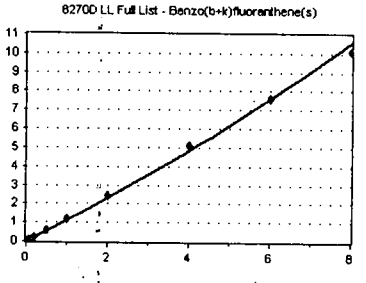


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	6341	0.605	17.40
0A03043-CAL2	50	19111	0.723	17.40
0A03043-CAL3	100	42849	0.808	17.41
0A03043-CAL4	200	99967	0.925	17.41
0A03043-CAL5	500	308921	1.071	17.42
0A03043-CAL6	1000	625076	1.132	17.42
0A03043-CAL7	2000	1457956	1.181	17.43
0A03043-CAL8	4000	2721434	1.254	17.44
0A03043-CAL9	6000	3786657	1.240	17.44
0A03043-CALA	8000	5502049	1.258	17.46

AVE RF **1.020** RF RSD **23.45** AVE RT **17.42**

Benzo(b+k)fluoranthene(s)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	40	13382	0.638	17.47
0A03043-CAL2	100	40627	0.769	17.40
0A03043-CAL3	200	94017	0.887	17.47
0A03043-CAL4	400	220010	1.017	17.47
0A03043-CAL5	1000	658825	1.142	17.48
0A03043-CAL6	2000	1314574	1.190	17.48
0A03043-CAL7	4000	3029656	1.227	17.49
0A03043-CAL8	8000	5519883	1.272	17.50
0A03043-CAL9	12000	7733545	1.266	17.51
0A03043-CALA	16000	1.106477E+07	1.265	17.53

AVE RF **1.067** RF RSD **21.51** AVE RT **17.48**

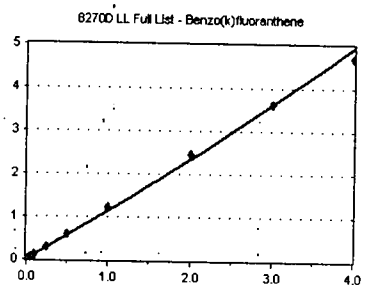
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Benzo(k)fluoranthene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

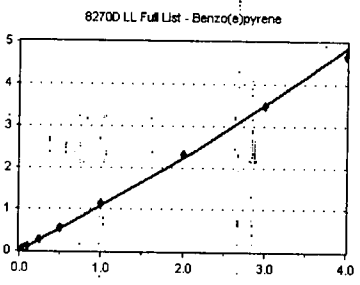


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	6199	0.592	17.47
0A03043-CAL2	50	18435	0.698	17.47
0A03043-CAL3	100	46284	0.873	17.47
0A03043-CAL4	200	111777	1.034	17.47
0A03043-CAL5	500	329548	1.142	17.48
0A03043-CAL6	1000	652096	1.181	17.48
0A03043-CAL7	2000	1499268	1.215	17.49
0A03043-CAL8	4000	2680286	1.235	17.50
0A03043-CAL9	6000	3676198	1.203	17.51
0A03043-CALA	8000	5138884	1.175	17.53

AVE RF **1.035** RF RSD **22.54** AVE RT **17.49**

Benzo(e)pyrene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

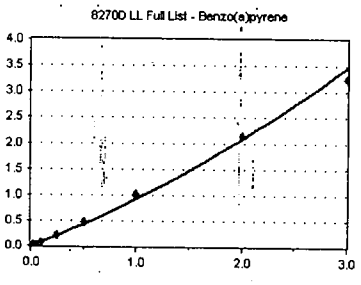


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	7017	0.670	18.06
0A03043-CAL2	50	19961	0.756	18.06
0A03043-CAL3	100	46138	0.870	18.06
0A03043-CAL4	200	102583	0.949	18.06
0A03043-CAL5	500	306473	1.062	18.06
0A03043-CAL6	1000	608947	1.103	18.06
0A03043-CAL7	2000	1399026	1.133	18.08
0A03043-CAL8	4000	2531424	1.166	18.09
0A03043-CAL9	6000	3555006	1.164	18.09
0A03043-CALA	8000	5118312	1.170	18.11

AVE RF **1.004** RF RSD **18.29** AVE RT **18.07**

Benzo(a)pyrene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

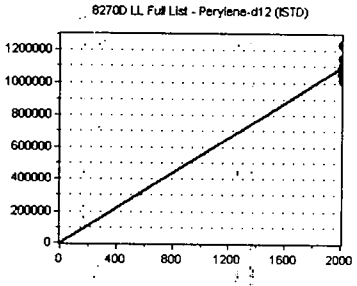


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	3690	0.352	18.17
0A03043-CAL2	50	12065	0.457	18.17
0A03043-CAL3	100	29851	0.563	18.18
0A03043-CAL4	200	77630	0.718	18.18
0A03043-CAL5	500	259206	0.898	18.19
0A03043-CAL6	1000	532525	0.964	18.19
0A03043-CAL7	2000	1266093	1.026	18.20
0A03043-CAL8	4000	2321546	1.070	18.21
0A03043-CAL9	6000	3303134	1.081	18.22
~~0A03043-CALA~~	~~8000~~	~~4722269~~	~~1.079~~	~~18.23~~

AVE RF **0.792** RF RSD **35.15** AVE RT **18.19**

Perylene-d12 (ISTD)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	2000	1047994	523.997	18.32
0A03043-CAL2	2000	1056735	528.368	18.32
0A03043-CAL3	2000	1060071	530.036	18.33
0A03043-CAL4	2000	1081159	540.579	18.33
0A03043-CAL5	2000	1154279	577.139	18.34
0A03043-CAL6	2000	1104605	552.303	18.33
0A03043-CAL7	2000	1234324	617.162	18.34
0A03043-CAL8	2000	1085138	542.569	18.34
0A03043-CAL9	2000	1018252	509.126	18.34
0A03043-CALA	2000	1093654	546.827	18.35

AVE RF **546.811** RF RSD **5.63** AVE RT **18.33**

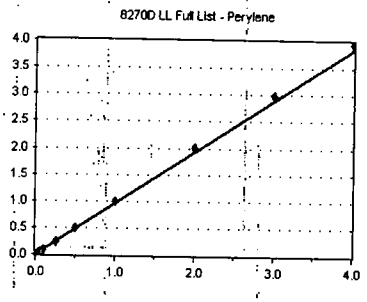
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Perylene

Curve Fit: **AVERAGE RF**

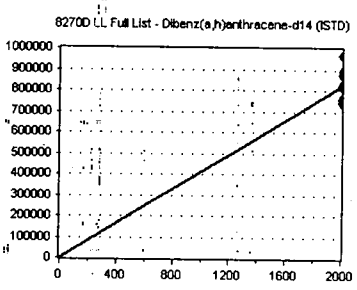


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	9812	0.936	18.38
0A03043-CAL2	50	23772	0.900	18.38
0A03043-CAL3	100	47848	0.903	18.38
0A03043-CAL4	200	102502	0.948	18.39
0A03043-CAL5	500	282076	0.977	18.39
0A03043-CAL6	1000	551305	0.998	18.39
0A03043-CAL7	2000	1219495	0.988	18.40
0A03043-CAL8	4000	2184466	1.007	18.41
0A03043-CAL9	6000	3043884	0.996	18.42
0A03043-CALA	8000	4332908	0.990	18.43

AVE RF **0.964** RF RSD **4.15** AVE RT **18.40**

Dibenz(a,h)anthracene-d14 (ISTD)

Curve Fit: **AVERAGE RF**

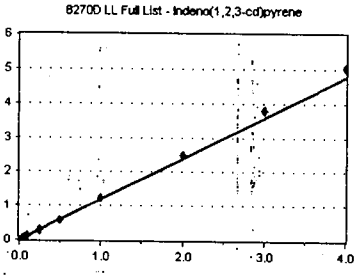


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	2000	761954	380.977	20.71
0A03043-CAL2	2000	747643	373.822	20.71
0A03043-CAL3	2000	740181	370.091	20.72
0A03043-CAL4	2000	758129	379.064	20.72
0A03043-CAL5	2000	829373	414.687	20.72
0A03043-CAL6	2000	815694	407.847	20.72
0A03043-CAL7	2000	968418	484.209	20.73
0A03043-CAL8	2000	874407	437.203	20.74
0A03043-CAL9	2000	819963	409.982	20.74
0A03043-CALA	2000	890974	445.487	20.75

AVE RF **410.337** RF RSD **8.98** AVE RT **20.72**

Indeno(1,2,3-cd)pyrene

Curve Fit: **AVERAGE RF**

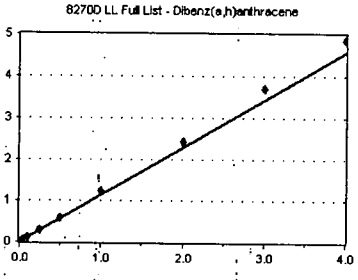


Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	8577	1.126	20.70
0A03043-CAL2	50	20780	1.112	20.70
0A03043-CAL3	100	41903	1.132	20.71
0A03043-CAL4	200	87517	1.154	20.72
0A03043-CAL5	500	248473	1.198	20.72
0A03043-CAL6	1000	487977	1.196	20.72
0A03043-CAL7	2000	1189340	1.228	20.74
0A03043-CAL8	4000	2180841	1.247	20.75
0A03043-CAL9	6000	3116709	1.267	20.75
0A03043-CALA	8000	4491475	1.260	20.77

AVE RF **1.192** RF RSD **4.88** AVE RT **20.73**

Dibenz(a,h)anthracene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	7692	1.010	20.77
0A03043-CAL2	50	18434	0.986	20.77
0A03043-CAL3	100	39682	1.072	20.78
0A03043-CAL4	200	84660	1.117	20.78
0A03043-CAL5	500	242278	1.168	20.78
0A03043-CAL6	1000	474782	1.164	20.78
0A03043-CAL7	2000	1194343	1.233	20.80
0A03043-CAL8	4000	2121000	1.213	20.81
0A03043-CAL9	6000	3025434	1.230	20.81
0A03043-CALA	8000	4324753	1.213	20.83

AVE RF **1.141** RF RSD **7.99** AVE RT **20.79**

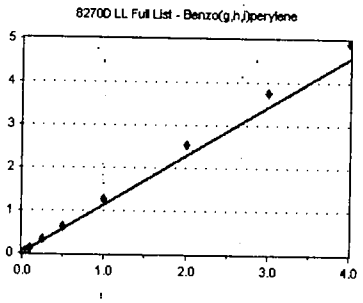
Element Calibration Review Sheet

Calibration ID: **A0A0704** Instrument: **SV-GCMS5** Calibration Date: **01/07/2020**

Analysis: **8270D LL Full List** Instrument Cal ID: **A0A0704**

Benzo(g,h,i)perylene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A03043-CAL1	20	6378	0.837	21.23
0A03043-CAL2	50	16763	0.897	21.24
0A03043-CAL3	100	38483	1.040	21.25
0A03043-CAL4	200	86439	1.140	21.24
0A03043-CAL5	500	259055	1.249	21.26
0A03043-CAL6	1000	513422	1.259	21.26
0A03043-CAL7	2000	1231176	1.271	21.27
0A03043-CAL8	4000	2215679	1.267	21.28
0A03043-CAL9	6000	3084427	1.254	21.29
0A03043-CALA	8000	4378063	1.228	21.31

AVE RF **1.144** RF RSD **14.30** AVE RT **21.26**

Compound List Report SV-GCMS5

Method Path : Z:\METHODS\
Method File : SV5_010320.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Jan 06 10:51:56 2020
Response Via : Initial Calibration

QA 1/6/20

Total Cpnds : 97

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4 (ISTD)	152	6.573	1.000	A	2	A	R
2	T	N-Nitrosodimethylamine	74	4.107	0.625	A	2	A	R
3	T	Pyridine	79	4.128	0.628	A	2	A	R
4	S	2-Fluorophenol (Surr)	112	5.370	0.817	A	1	A	R
5	S	Phenol-d6(Surr)	99	6.225	0.947	A	2	A	R
6	T	Phenol	94	6.241	0.950	A	2	A	R
7	T	Aniline	93	6.268	0.954	A	2	A	R
8	T	Bis(2-chloroethyl) ether	93	6.316	0.961	A	2	A	R
9	T	2-Chlorophenol	128	6.380	0.971	A	2	A	R
10	T	1,3-Dichlorobenzene	146	6.525	0.993	A	2	A	R
11	T	1,4-Dichlorobenzene	146	6.594	1.003	A	2	A	R
12	T	Benzyl alcohol	108	6.706	1.020	Q	2	A	R
13	T	1,2-Dichlorobenzene	146	6.744	1.026	A	2	A	R
14	T	2-Methylphenol	107	6.814	1.037	A	2	A	R
15	T	2,2'-Oxybis(1-Chloropropane)	45	6.830	1.039	A	2	A	R
16	T	N-Nitrosodi-n-propylamine	70	6.958	1.059	A	2	A	R
17	T	3+4-Methylphenol	107	6.963	1.059	Q	3	A	R
18	T	Hexachloroethane	117	7.070	1.076	A	2	A	R
19	S	Nitrobenzene-d5 (Surr)	82	7.108	1.081	A	2	A	R
20	T	Nitrobenzene	77	7.129	1.085	A	2	A	R
21	I	Naphthalene-d8 (ISTD)	136	7.825	1.000	A	1	A	R
22	T	Isophorone	82	7.353	0.940	Q	2	A	R
23	T	2-Nitrophenol	139	7.444	0.951	Q	2	A	R
24	T	2,4-Dimethylphenol	122	7.482	0.956	Q	2	A	R
25	T	Bis(2-chloroethoxy) methane	93	7.568	0.967	A	2	A	R
26	T	Benzoic acid	105	7.562	0.966	Q	2	A	R
27	T	2,4-Dichlorophenol	162	7.686	0.982	Q	2	A	R
28	T	1,2,4-Trichlorobenzene	180	7.766	0.992	A	2	A	R
29	T	Naphthalene	128	7.846	1.003	A	1	A	R
30	T	4-Chloroaniline	127	7.894	1.009	A	2	A	R
31	T	Hexachlorobutadiene	225	7.974	1.019	A	2	A	R
32	T	4-Chloro-3-methylphenol	107	8.380	1.071	Q	2	A	R
33	T	2-Methylnaphthalene	142	8.541	1.092	A	2	A	R
34	T	1-Methylnaphthalene	142	8.638	1.104	A	2	A	R
35	I	Acenaphthene-d10 (ISTD)	162	9.600	1.000	A	2	A	R
36	T	Hexachlorocyclopentadiene	237	8.707	0.907	Q	2	A	R
37	T	2,4,6-Trichlorophenol	196	8.824	0.919	Q	2	A	R
38	T	2,4,5-Trichlorophenol	196	8.862	0.923	Q	2	A	R
39	T	1,1'-Biphenyl	154	9.007	0.938	A	2	A	R
40	S	2-Fluorobiphenyl (Surr)	172	8.905	0.928	A	2	A	R
41	T	2-Chloronaphthalene	162	9.033	0.941	A	2	A	R
42	T	2-Nitroaniline	138	9.135	0.952	Q	2	A	R
43	T	2,6-Dimethylnaphthalene	156	9.167	0.955	A	2	A	R
44	T	1,4-Dinitrobenzene	168	9.263	0.965	Q	2	A	R
45	T	Dimethyl phthalate	163	9.312	0.970	A	2	A	R
46	T	1,3-Dinitrobenzene	168	9.343	0.973	Q	2	A	R
47	T	2,6-Dinitrotoluene	165	9.375	0.977	Q	2	A	R
48	T	1,2-Dinitrobenzene	168	9.429	0.982	A	2	A	R
49	T	Acenaphthylene	152	9.456	0.985	A	2	A	R
50	T	3-Nitroaniline	138	9.546	0.994	A	2	A	R
51	T	Acenaphthene	153	9.632	1.003	A	2	A	R
52	T	2,4-Dinitrophenol	184	9.653	1.005	Q	2	A	R
53	T	4-Nitrophenol	139	9.723	1.013	Q	2	A	R
54	T	2,4-Dinitrotoluene	165	9.784	1.019	Q	2	A	R

55	T	Dibenzofuran	168	9.804	1.021	A		2	A	R
56	T	2,3,5,6-Tetrachlorophenol	232	9.889	1.030	Q	1/a²	2	A	R
57	T	2,3,4,6-Tetrachlorophenol	232	9.937	1.035	Q	1/a²	2	A	R
58	T	Diethyl phthalate	149	10.028	1.045	A		2	A	R
59	T	2,3,5-Trimethylnaphthalene	170	10.018	1.043	A		2	A	R
60	T	Fluorene	166	10.157	1.058	A		2	A	R
61	T	4-Chlorophenyl phenyl ether	204	10.146	1.057	A		2	A	R
62	T	4-Nitroaniline	138	10.167	1.059	A		2	A	R
63	T	4,6-Dinitro-2-methylphenol	198	10.204	1.063	Q	1/a²	2	A	R
64	I	Phenanthrene-d10 (ISTD)	188	11.109	1.000	A		2	A	R
65	T	N-Nitrosodiphenylamine	169	10.268	0.924	Q	1/a²	2	A	R
66	T	Azobenzene (1,2-DPH)	77	10.306	0.928	Q	1/a²	2	A	R
67	S	2,4,6-Tribromophenol (Surr)	330	10.402	0.936	Q	1/a²	2	A	R
68	T	4-Bromophenyl phenyl ether	248	10.643	0.958	A		2	A	R
69	T	Hexachlorobenzene	284	10.729	0.966	A		2	A	R
70	T	Pentachlorophenol (PCP)	266	10.921	0.983	Q	1/a²	2	A	R
71	T	Phenanthrene	178	11.135	1.002	A		2	A	R
72	T	Anthracene	178	11.184	1.007	A		2	A	R
73	T	Carbazole	167	11.349	1.022	Q	1/a²	2	A	R
74	T	Di-n-butyl phthalate	149	11.691	1.052	Q	1/a²	2	A	R
75	T	Fluoranthene	202	12.398	1.116	A		2	A	R
76	T	Benzidine	184	12.552	1.130	Q	1/a²	2	A	R
77	T	Pyrene	202	12.681	1.142	A		2	A	R
78	I	Chrysene-d12 (ISTD)	240	14.863	1.000	A		2	A	R
79	S	Terphenyl-d14 (Surr)	244	12.884	0.867	A		2	A	R
80	T	Butyl benzyl phthalate	149	13.681	0.920	Q	1/a²	2	A	R
81	T	Bis(2-ethylhexyl) adipate	129	13.847	0.932	Q	1/a²	2	A	R
82	T	3,3-Dichlorobenzidine	252	14.804	0.996	Q	1/a²	2	A	R
83	T	Benz(a)anthracene	228	14.837	0.998	A		2	A	R
84	T	Chrysene	228	14.917	1.004	A		2	A	R
85	T	Bis(2-ethylhexyl) phthalate	149	14.991	1.009	Q	1/a²	2	A	R
86	I	Perylene-d12 (ISTD)	264	18.329	1.000	A		2	A	R
87	T	Di-n-octyl phthalate	149	16.655	0.909	Q	1/a²	2	A	R
88	T	Benzo(b)fluoranthene	252	17.414	0.950	Q	1/a²	2	A	R
89	T	Benzo(k)fluoranthene	252	17.484	0.954	Q	1/a²	2	A	R
90	T	Benzo(b+k)fluoranthene	252	17.484	0.954	Q	1/a²	2	A	R
91	T	Benzo(e)pyrene	252	18.061	0.985	Q	1/a²	2	A	R
92	T	Benzo(a)pyrene	252	18.184	0.992	Q	1/a²	2	A	R
93	T	Perylene	252	18.388	1.003	A		2	A	B
94	I	Dibenz(a,h)Anthrcene-d14 (I...	292	20.720	1.000	A		1	A	R
95	T	Indeno(1,2,3-cd)pyrene	276	20.720	1.000	A		1	A	R
96	T	Dibenz(a,h)anthracene	278	20.784	1.003	A		2	A	R
97	T	Benzo(g,h,i)perylene	276	21.255	1.026	A		2	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

SV5_010320.M Mon Jan 06 11:55:49 2020

Response Factor Report SV-GCMS5

Method Path : Z:\METHODS\
Method File : SV5_010320.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Jan 06 10:51:56 2020
Response Via : Initial Calibration

GJL 1/6/20

Calibration Files
20 =E01032016.D 50 =E01032017.D 100 =E01032019.D 200 =E01032020.D 500 =E01032021.D 1000=E01032022.D 2000=E01032023.D
4000=E01032024.D 6000=E01032025.D 8000=E01032026.D

		Compound	20	50	100	200	500	1000	2000	4000	6000	8000	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------											1.95
2)	T	N-Nitrosodimet...	0.871	0.868	0.887	0.937	0.964	0.987	1.010	1.030	1.025	1.006	0.958	6.65
3)	T	Pyridine		1.108	1.286	1.366	1.436	1.527	1.565	1.614	1.636	1.642	1.464	12.47
4)	S	2-Fluorophenol...	0.965	1.049	1.116	1.233	1.276	1.348	1.379	1.429	1.431	1.408	1.263	13.31
5)	S	Phenol-d6(Surr)	1.274	1.362	1.484	1.592	1.671	1.720	1.768	1.759	1.726	1.703	1.606	10.89
6)	T	Phenol	1.594	1.661	1.811	1.913	1.985	2.001	2.036	1.993	1.964	1.895	1.885	8.01
7)	T	Aniline	1.530	1.625	1.981	2.130	2.199	2.222	2.345	2.339	2.340	2.260	2.097	14.13
8)	T	Bis(2-chloroet...	1.540	1.549	1.643	1.602	1.621	1.584	1.599	1.526	1.461	1.463	1.559	4.01
9)	T	2-Chlorophenol	1.071	1.126	1.258	1.344	1.411	1.442	1.462	1.480	1.480	1.455	1.353	11.19
10)	T	1,3-Dichlorobe...	1.562	1.610	1.596	1.627	1.611	1.603	1.612	1.612	1.593	1.547	1.597	1.55
11)	T	1,4-Dichlorobe...	1.589	1.585	1.657	1.658	1.650	1.632	1.618	1.621	1.601	1.543	1.615	2.27
12)	T	Benzyl alcohol		0.314	0.374	0.506	0.667	0.765	0.867	0.885	0.875		0.657	35.29
13)	T	1,2-Dichlorobe...	1.501	1.522	1.561	1.540	1.563	1.542	1.544	1.541	1.517	1.473	1.530	1.81
14)	T	2-Methylphenol	0.731	0.821	0.944	1.064	1.139	1.124	1.180	1.154	1.116	1.086	1.036	14.75
15)	T	2,2'-Oxybis(1-...	2.147	2.126	2.155	2.166	2.137	2.082	2.049	1.936	1.810	1.684	2.029	8.18
16)	T	N-Nitrosodi-n-...	0.758	0.807	0.869	0.975	1.069	1.071	1.103	1.050	0.979	0.936	0.962	12.34
17)	T	3+4-Methylphenol	0.819	1.083	1.211	1.301	1.426	1.420	1.494	1.450	1.362	1.315	1.288	15.95
18)	T	Hexachloroethane	0.528	0.581	0.576	0.591	0.603	0.600	0.608	0.618	0.610	0.586	0.590	4.37
19)	S	Nitrobenzene-d...	1.190	1.223	1.320	1.388	1.497	1.468	1.539	1.486	1.442	1.450	1.400	8.49
20)	T	Nitrobenzene	1.296	1.309	1.443	1.507	1.556	1.521	1.562	1.503	1.446	1.428	1.457	6.41
21)	I	Naphthalene-d8 (ISTD)	----------ISTD----------											1.59
22)	T	Isophorone	0.453	0.486	0.569	0.620	0.682	0.696	0.720	0.724	0.722	0.715	0.639	16.08
23)	T	2-Nitrophenol		0.091	0.110	0.138	0.160	0.183	0.186	0.194	0.198	0.198	0.162	24.90
24)	T	2,4-Dimethylph...	0.129	0.154	0.190	0.227	0.249	0.264	0.278	0.284	0.286	0.284	0.235	24.71
25)	T	Bis(2-chloroet...	0.434	0.442	0.457	0.457	0.469	0.463	0.464	0.457	0.439	0.425	0.451	3.23
26)	T	Benzoic acid					0.009	0.043	0.097	0.147	0.173	0.195	0.111	67.07
27)	T	2,4-Dichloroph...	0.131	0.152	0.161	0.185	0.219	0.237	0.255	0.268	0.274	0.271	0.215	25.12
28)	T	1,2,4-Trichlor...	0.301	0.304	0.310	0.306	0.310	0.306	0.305	0.303	0.300	0.291	0.304	1.78
29)	T	Naphthalene	1.132	1.139	1.157	1.156	1.142	1.124	1.105	1.077	1.016	0.969	1.102	5.74
30)	T	4-Chloroaniline	0.275	0.278	0.332	0.343	0.382	0.357	0.400	0.412	0.413	0.411	0.360	14.67
31)	T	Hexachlorobuta...	0.150	0.148	0.154	0.152	0.153	0.152	0.151	0.153	0.152	0.149	0.151	1.33
32)	T	4-Chloro-3-met...			0.090	0.128	0.189	0.219	0.254	0.267	0.271	0.271	0.211	33.12
33)	T	2-Methylnaphth...	0.679	0.674	0.695	0.706	0.728	0.712	0.718	0.697	0.669	0.640	0.692	3.84
34)	T	1-Methylnaphth...	0.623	0.630	0.660	0.666	0.676	0.670	0.673	0.655	0.627	0.594	0.648	4.21
35)	I	Acenaphthene-d10 (...	----------ISTD----------											3.40
36)	T	Hexachlorocycl...	0.134	0.175	0.216	0.243	0.277	0.288	0.293	0.286	0.276	0.274	0.246	22.09
37)	T	2,4,6-Trichlor...		0.141	0.167	0.225	0.290	0.316	0.347	0.364	0.363	0.364	0.286	30.62
38)	T	2,4,5-Trichlor...		0.122	0.169	0.190	0.253	0.293	0.336	0.354	0.365	0.372	0.273	34.38
39)	T	1,1'-Biphenyl	1.663	1.773	1.739	1.794	1.773	1.760	1.745	1.682	1.600	1.505	1.703	5.41

Response Factor Report SV-GCMS5

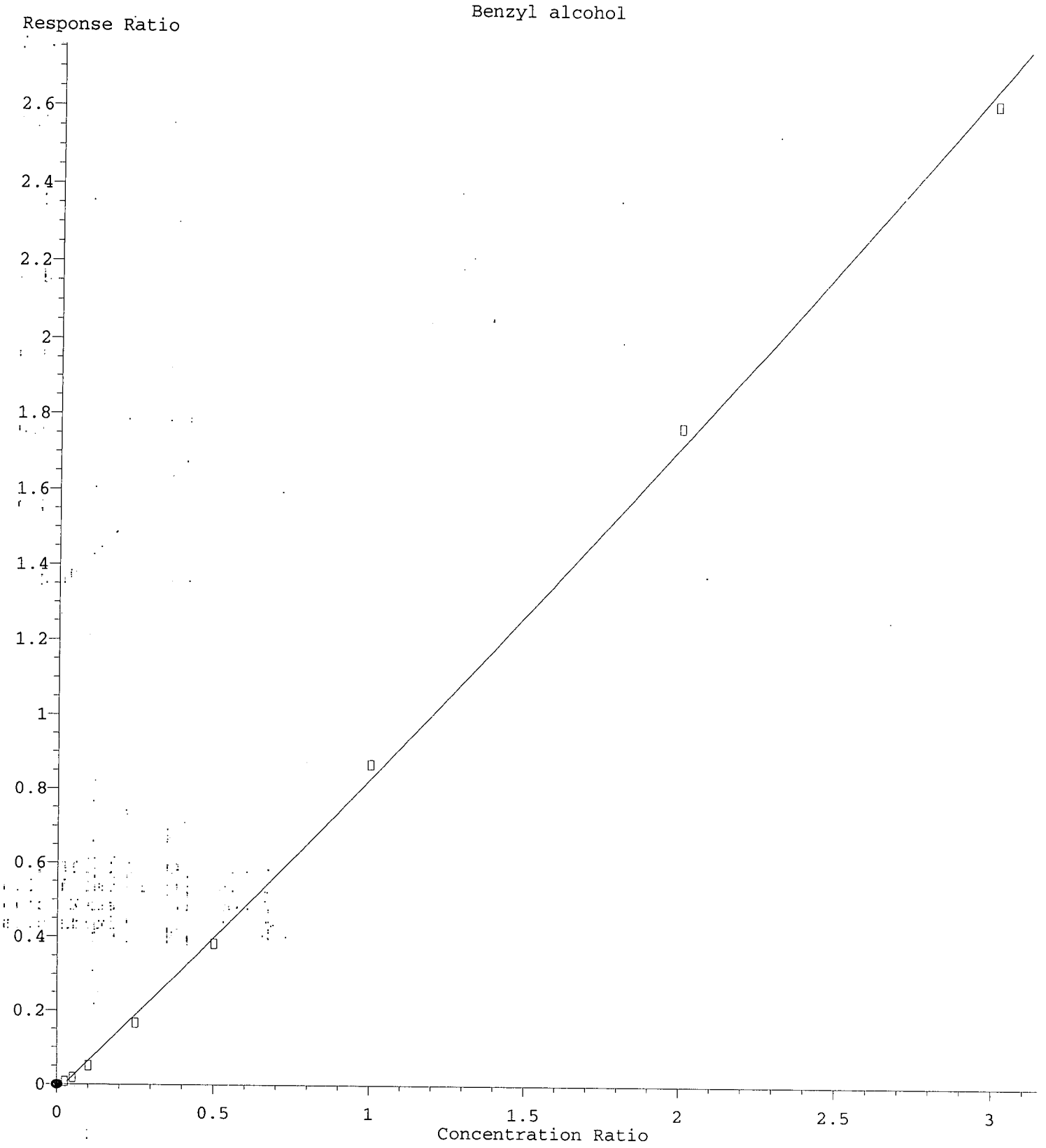
Method Path : Z:\METHODS\
Method File : SV5_010320.M
Title : EPA 8270D: Semivolatile Organics

40)	S	2-Fluorobiphen...	1.532	1.485	1.531	1.564	1.560	1.538	1.517	1.474	1.428	1.368	1.500	4.16
41)	T	2-Chloronaphth...	1.275	1.309	1.308	1.347	1.335	1.312	1.305	1.283	1.253	1.211	1.294	3.10
42)	T	2-Nitroaniline		0.158	0.192	0.268	0.347	0.378	0.420	0.433	0.446	0.459	0.345	32.74
43)	T	2,6-Dimethylna...	1.162	1.192	1.247	1.290	1.322	1.297	1.291	1.251	1.192	1.143	1.239	5.06
44)	T	1,4-Dinitroben...		0.066	0.086	0.112	0.153	0.175	0.198	0.206	0.211	0.220	0.158	36.45
45)	T	Dimethyl phtha...	1.012	1.124	1.232	1.327	1.393	1.377	1.408	1.368	1.353	1.346	1.294	10.14
46)	T	1,3-Dinitroben...		0.093	0.109	0.146	0.190	0.207	0.227	0.229	0.234	0.243	0.186	30.45
47)	T	2,6-Dinitrotol...	0.106	0.165	0.204	0.262	0.307	0.315	0.333	0.335	0.337	0.340	0.270	31.02
48)	T	1,2-Dinitroben...				0.118	0.139	0.145	0.157	0.155	0.156	0.153	0.146	9.48
49)	T	Acenaphthylene	1.535	1.704	1.876	2.012	2.055	2.058	2.082	2.008	1.942	1.854	1.913	9.24
50)	T	3-Nitroaniline				0.260	0.304	0.306	0.341	0.348	0.351	0.366	0.325	11.30
51)	T	Acenaphthene	1.357	1.353	1.405	1.410	1.415	1.396	1.397	1.348	1.292	1.242	1.361	4.16
52)	T	2,4-Dinitrophenol				0.006	0.028	0.067	0.124	0.154	0.171	0.192	0.106	68.88
53)	T	4-Nitrophenol		0.018	0.039	0.068	0.131	0.181	0.228	0.244	0.252		0.145	65.35
54)	T	2,4-Dinitrotol...		0.149	0.208	0.278	0.363	0.381	0.416	0.418	0.416	0.405	0.337	29.96
55)	T	Dibenzofuran	1.659	1.651	1.742	1.763	1.792	1.749	1.785	1.734	1.685	1.601	1.716	3.71
56)	T	2,3,5,6-Tetrac...		0.042	0.069	0.120	0.193	0.225	0.262	0.273	0.282		0.183	51.64
57)	T	2,3,4,6-Tetrac...		0.090	0.113	0.160	0.218	0.237	0.270	0.277	0.282	0.295	0.216	35.60
58)	T	Diethyl phthalate	0.960	1.082	1.227	1.304	1.389	1.364	1.410	1.354	1.301	1.252	1.264	11.33
59)	T	2,3,5-Trimethy...	1.018	1.011	1.077	1.125	1.153	1.158	1.159	1.109	1.053	0.998	1.086	5.84
60)	T	Fluorene	1.175	1.294	1.354	1.429	1.474	1.455	1.473	1.415	1.355	1.254	1.368	7.38
61)	T	4-Chlorophenyl...	0.533	0.597	0.614	0.624	0.639	0.625	0.641	0.623	0.613	0.582	0.609	5.28
62)	T	4-Nitroaniline				0.242	0.297	0.309	0.337	0.349	0.351	0.364	0.321	13.20
63)	T	4,6-Dinitro-2-...				0.055	0.112	0.160	0.211	0.227	0.237	0.251	0.179	40.88
64)	I	Phenanthrene-d10 (...	----------ISTD----------											4.39
65)	T	N-Nitrosodiphe...	0.423	0.501	0.595	0.667	0.707	0.705	0.712	0.698	0.685	0.657	0.635	15.62
66)	T	Azobenzene (1,...	0.530	0.615	0.787	0.885	0.939	0.948	0.937	0.896	0.872	0.813	0.822	17.42
67)	S	2,4,6-Tribromo...		0.029	0.044	0.059	0.078	0.084	0.092	0.094	0.097	0.099	0.075	33.67
68)	T	4-Bromophenyl ...	0.161	0.166	0.186	0.194	0.203	0.204	0.210	0.213	0.213	0.214	0.197	10.05
69)	T	Hexachlorobenzene	0.205	0.207	0.225	0.228	0.225	0.225	0.229	0.231	0.228	0.227	0.223	4.11
70)	T	Pentachlorophe...			0.011	0.023	0.049	0.070	0.093	0.104	0.111		0.066	59.85
71)	T	Phenanthrene	1.221	1.161	1.199	1.209	1.214	1.199	1.196	1.148	1.116	1.056	1.172	4.49
72)	T	Anthracene	0.884	0.954	1.037	1.110	1.168	1.178	1.191	1.150	1.118	1.064	1.085	9.37
73)	T	Carbazole	0.633	0.722	0.861	0.951	1.017	1.042	1.058	1.038	1.012	0.982	0.932	15.76
74)	T	Di-n-butyl pht...		0.658	0.799	0.978	1.185	1.276	1.320	1.285	1.222	1.165	1.099	21.37
75)	T	Fluoranthene	0.814	0.898	0.994	1.072	1.141	1.180	1.180	1.152	1.116	1.088	1.063	11.69
76)	T	Benzidine			0.111	0.207	0.370	0.477	0.545	0.596	0.607	0.596	0.439	43.64
77)	T	Pyrene	0.879	0.966	1.050	1.157	1.210	1.229	1.219	1.180	1.144	1.121	1.116	10.42
78)	I	Chrysene-d12 (ISTD)	----------ISTD----------											4.63
79)	S	Terphenyl-d14 ...	0.739	0.782	0.844	0.911	0.921	0.928	0.950	0.973	0.988	0.960	0.900	9.33
80)	T	Butyl benzyl p...			0.207	0.295	0.430	0.512	0.589	0.629	0.641	0.630	0.491	33.85
81)	T	Bis(2-ethylhex...			0.305	0.315	0.420	0.490	0.565	0.603	0.615	0.606	0.490	26.40
82)	T	3,3-Dichlorobe...		0.117	0.156	0.217	0.274	0.255	0.183	0.251	0.331	0.372	0.240	34.00
83)	T	Benz(a)anthracene	1.068	0.949	1.008	1.090	1.152	1.163	1.175	1.179	1.196	1.184	1.116	7.58
84)	T	Chrysene	1.083	1.065	1.111	1.116	1.114	1.116	1.129	1.126	1.118	1.111	1.109	1.78
85)	T	Bis(2-ethylhex...			0.284	0.416	0.647	0.770	0.872	0.895	0.906	0.903	0.712	34.09
86)	I	Perylene-d12 (ISTD)	----------ISTD----------											5.63
87)	T	Di-n-octyl pht...			0.304	0.412	0.753	1.072	1.413	1.619	1.679	1.692	1.118	51.03

Method Path : Z:\METHODS\
Method File : SV5_010320.M
Title : EPA 8270D: Semivolatile Organics

88)	T	Benzo(b)fluora...	0.605	0.723	0.808	0.925	1.071	1.132	1.181	1.254	1.240	1.258	1.020	23.45 J
89)	T	Benzo(k)fluora...	0.592	0.698	0.873	1.034	1.142	1.181	1.215	1.235	1.203	1.175	1.035	22.54 J
90)	T	Benzo(b+k)fluo...	0.638	0.769	0.887	1.017	1.142	1.190	1.227	1.272	1.266	1.265	1.067	21.51 J
91)	T	Benzo(e)pyrene	0.670	0.756	0.870	0.949	1.062	1.103	1.133	1.166	1.164	1.170	1.004	18.29 J
92)	T	Benzo(a)pyrene	0.352	0.457	0.563	0.718	0.898	0.964	1.026	1.070	1.081		0.792	35.15 J
93)	T	Perylene	0.936	0.900	0.903	0.948	0.977	0.998	0.988	1.007	0.996	0.990	0.964	4.15 J
94)	I	Dibenz(a,h)Anthrce...	----------ISTD----------											8.98
95)	T	Indeno(1,2,3-c...	1.126	1.112	1.132	1.154	1.198	1.196	1.228	1.247	1.267	1.260	1.192	4.88 J
96)	T	Dibenz(a,h)ant...	1.010	0.986	1.072	1.117	1.168	1.164	1.233	1.213	1.230	1.213	1.141	7.99 J
97)	T	Benzo(g,h,i)pe...	0.837	0.897	1.040	1.140	1.249	1.259	1.271	1.267	1.254	1.228	1.144	14.30 J

(#) = Out of Range

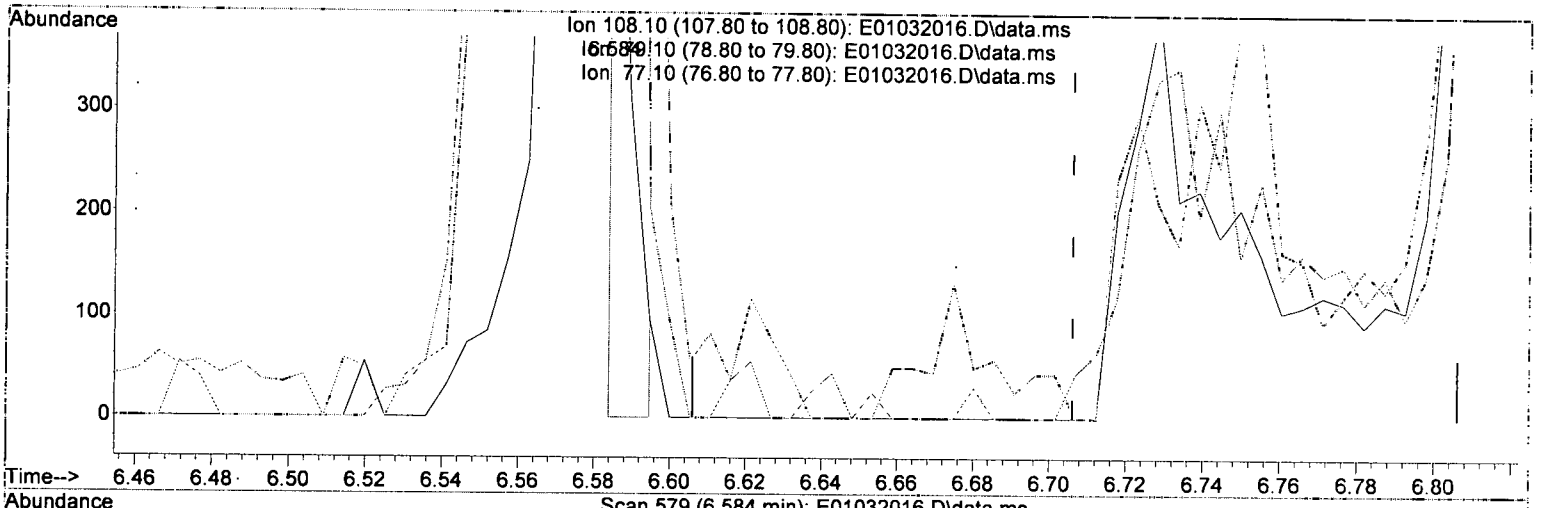


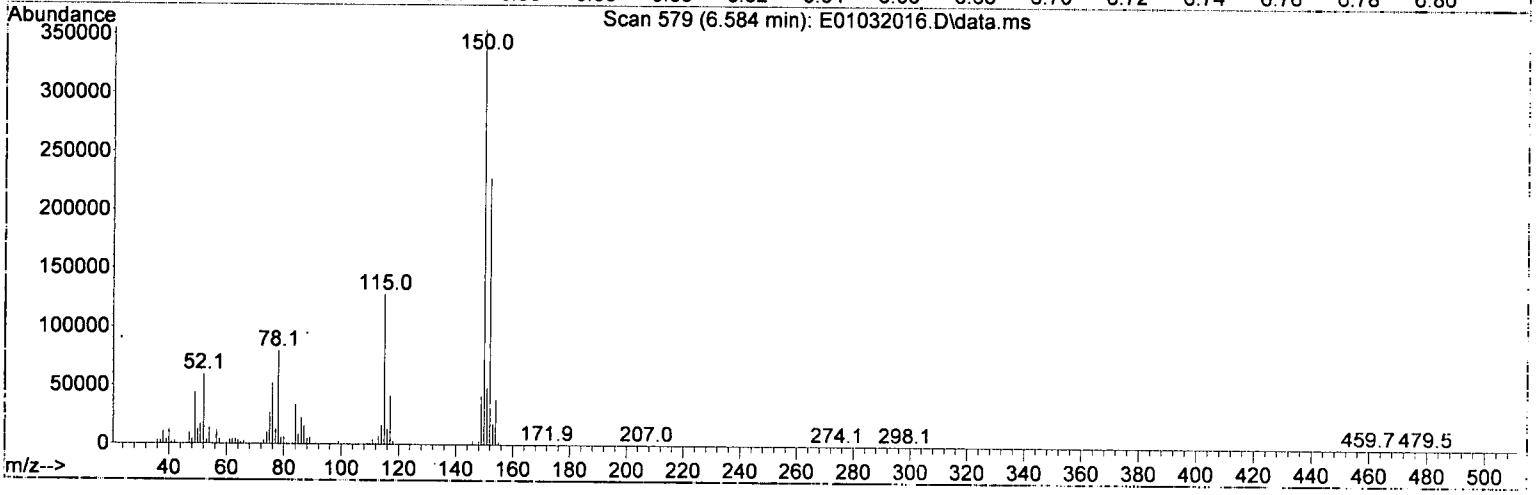
R = 2.36e-002 A*A + 8.24e-001 A - 1.93e-002
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration.
InstName : SV-GCMS5





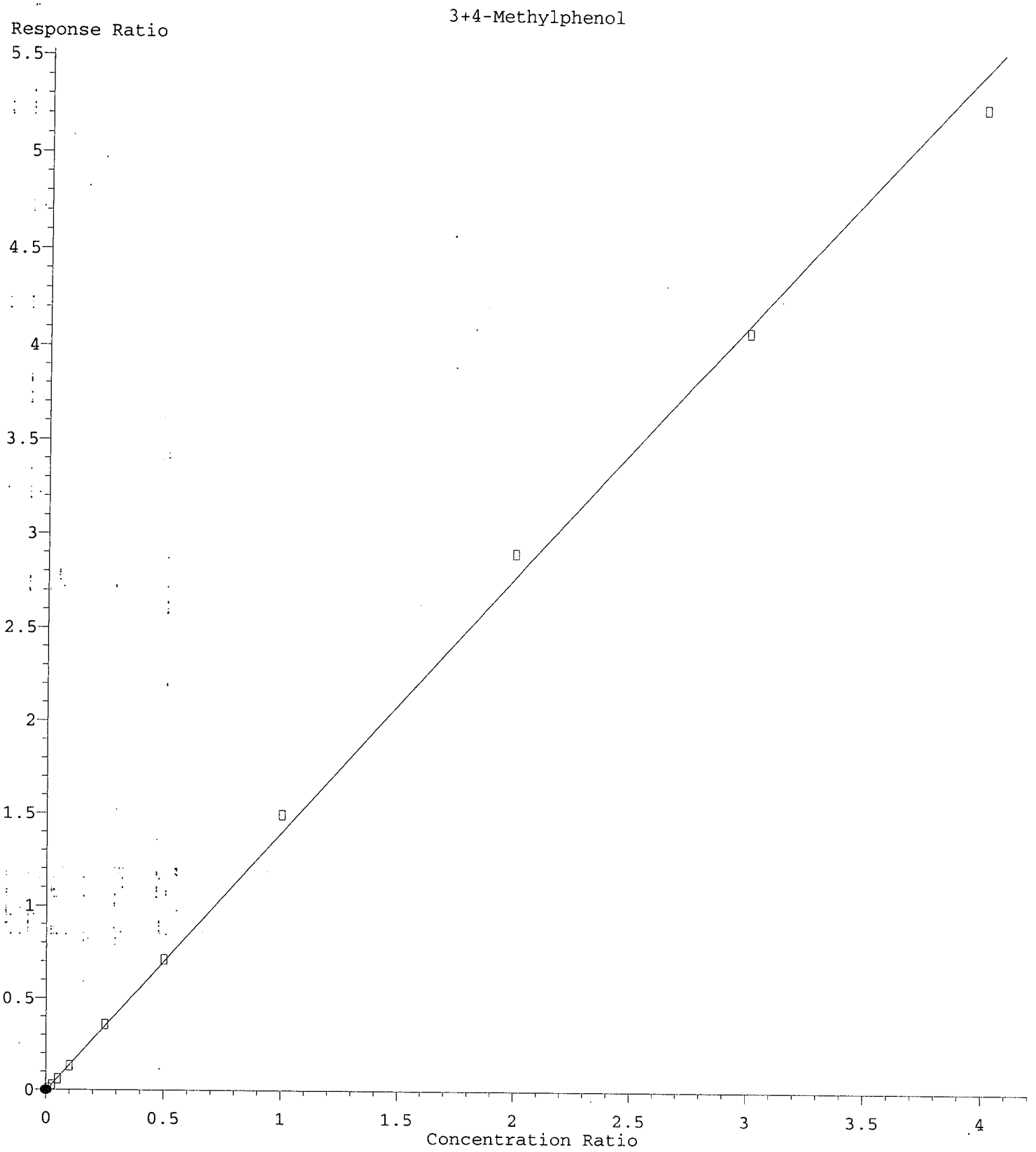
TIC: E01032016.D\data.ms

(12) Benzyl alcohol (T)

6.584min (-0.122) 47.41 ng/ml m √

response 131

Ion	Exp%	Act%
108.10	100.00	100.00
79.10	113.60	717.20#
77.10	71.40	1644.42#
0.00	0.00	0.00

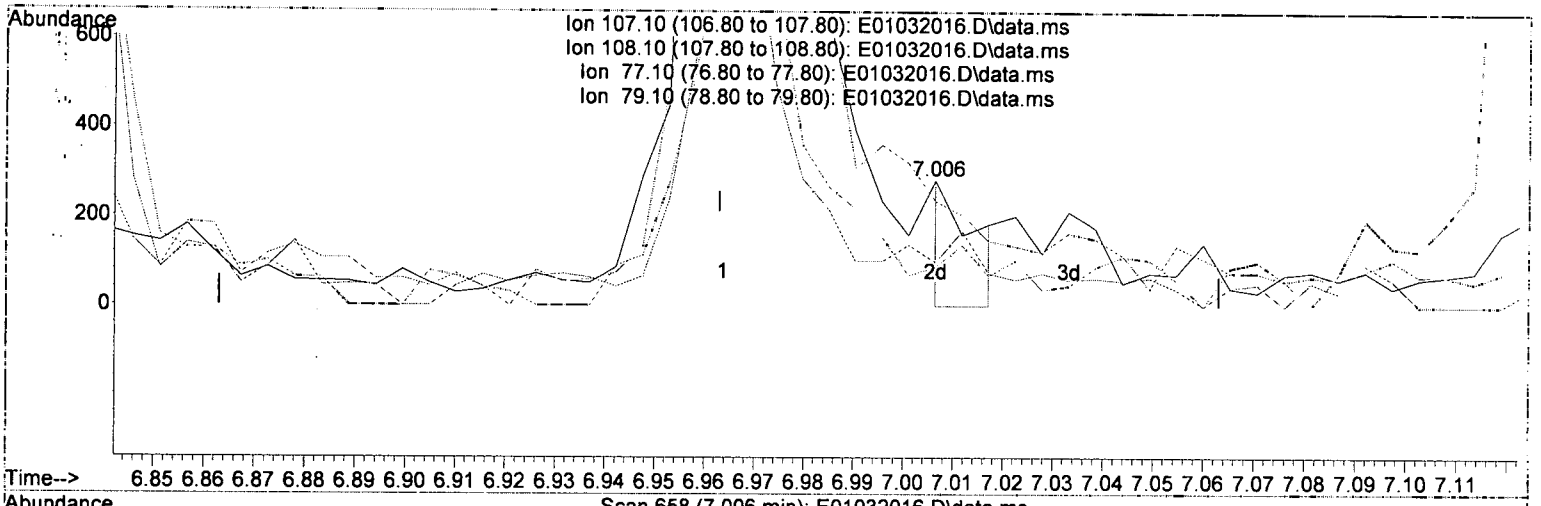


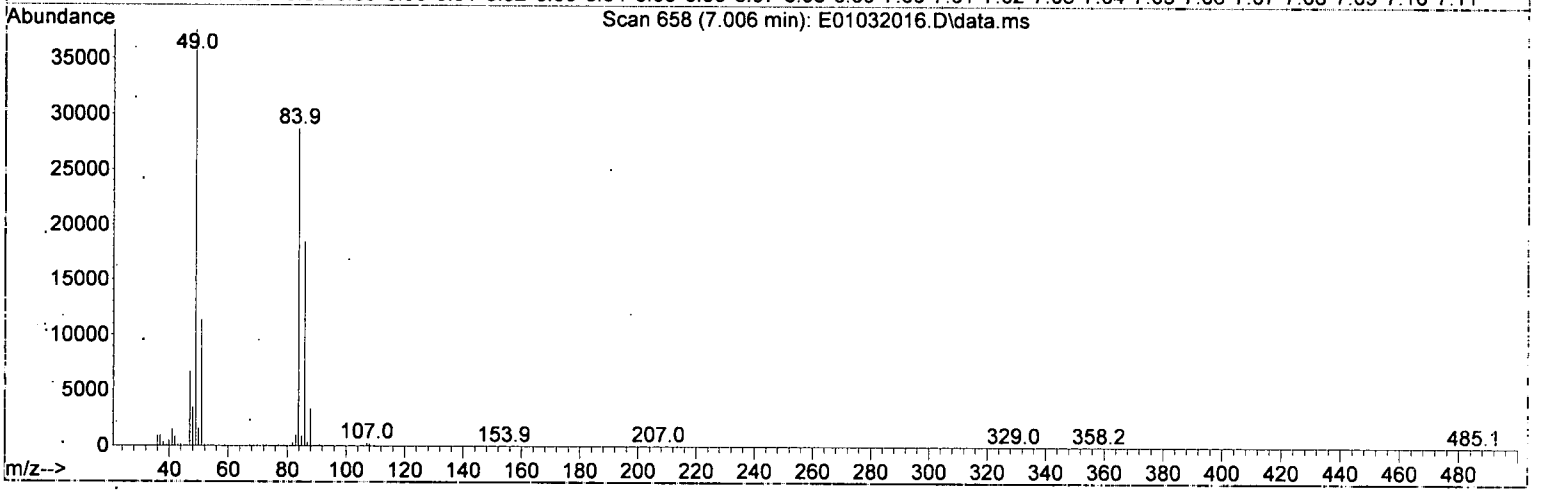
R = -1.35e-002 A*A + 1.42e+000 A - 6.47e-003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





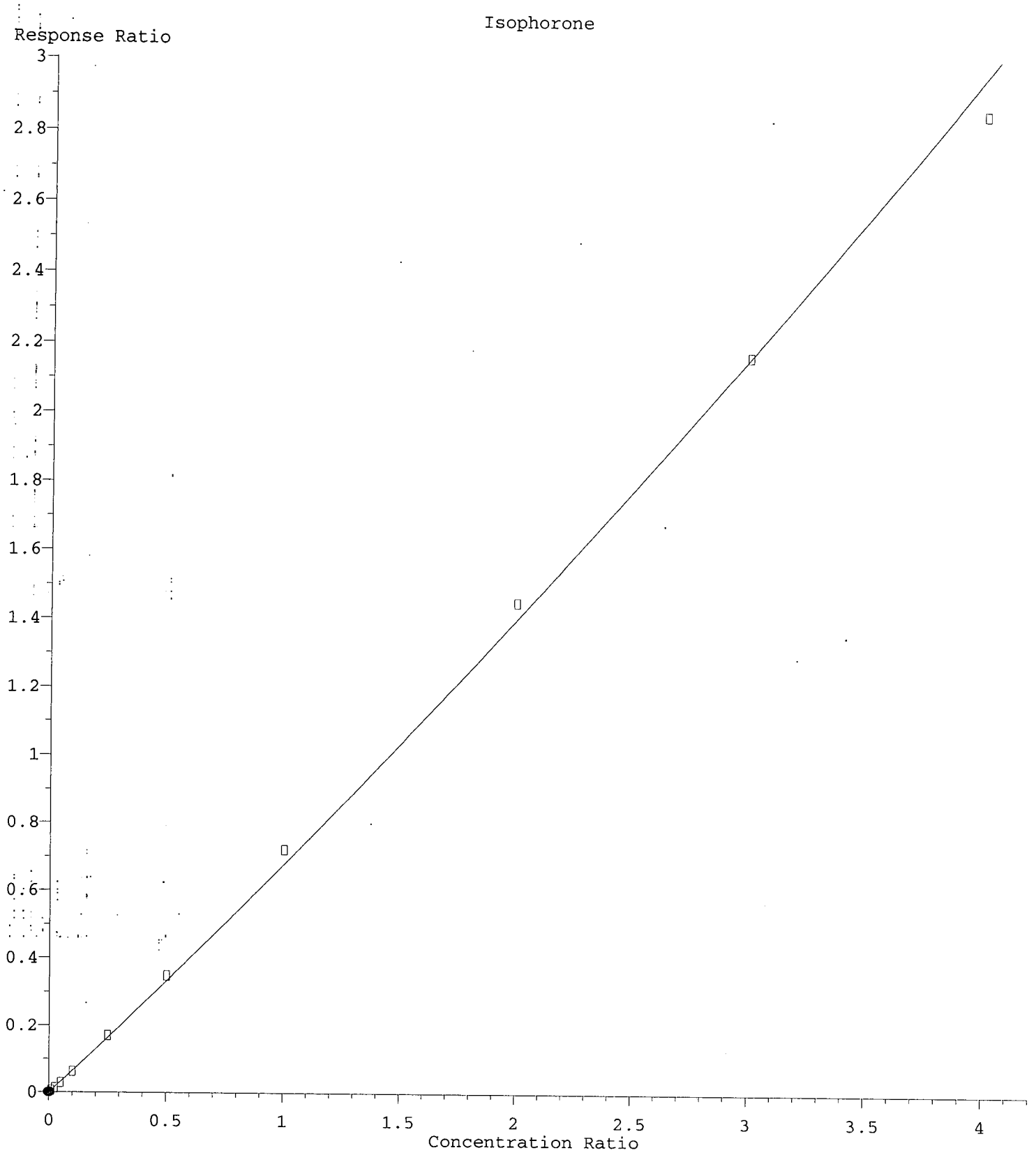
TIC: E01032016.D\data.ms

(17) 3+4-Methylphenol (T)

7.006min (+ 0.043) 9.45 ng/ml m

response 110

Ion	Exp%	Act%
107.10	100.00	100.00
108.10	89.80	83.69
77.10	28.30	31.21
79.10	24.30	35.11

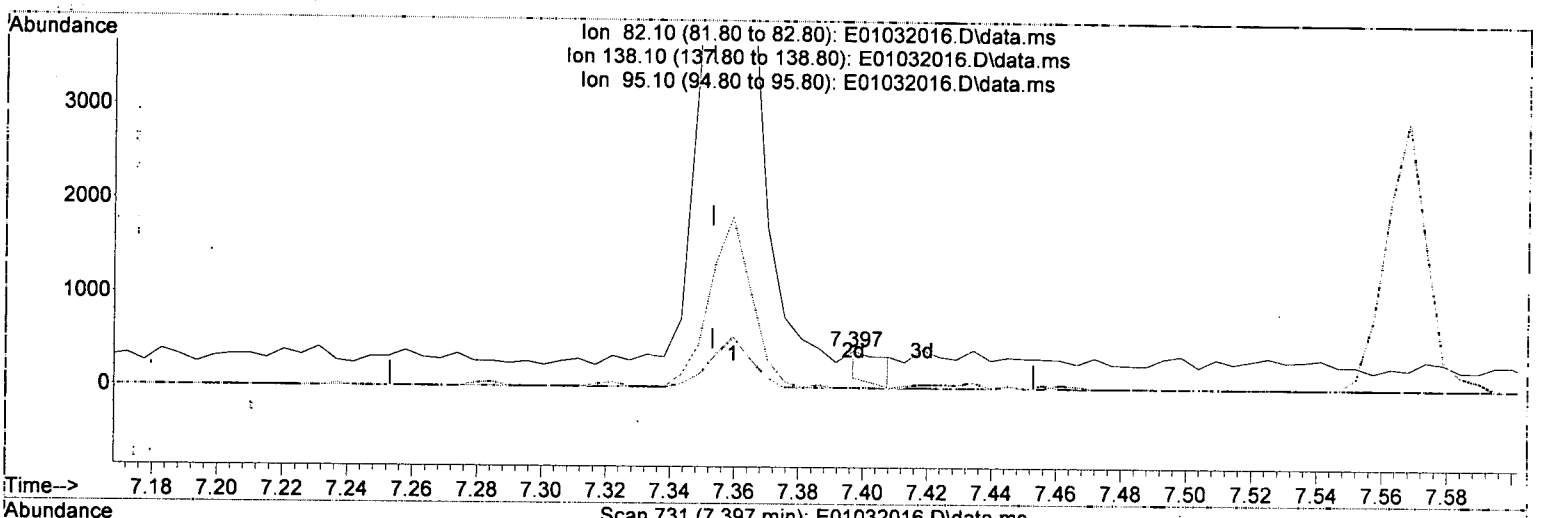


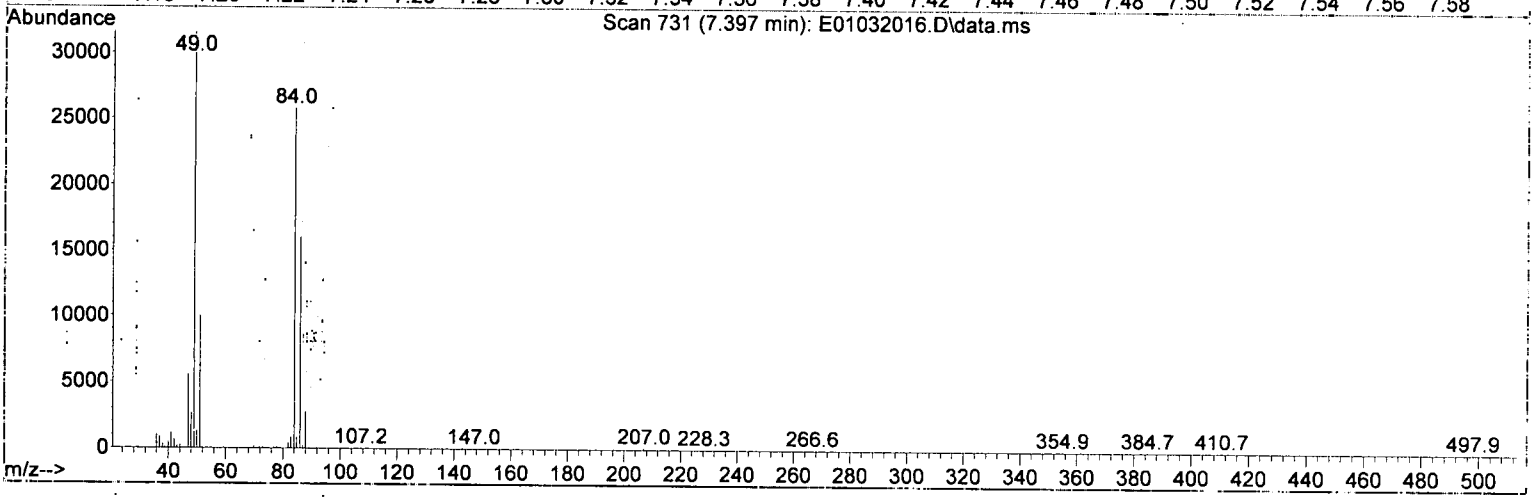
R = 2.08e-002 A*A + 6.60e-001 A - 2.46e-003
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032016.D\data.ms

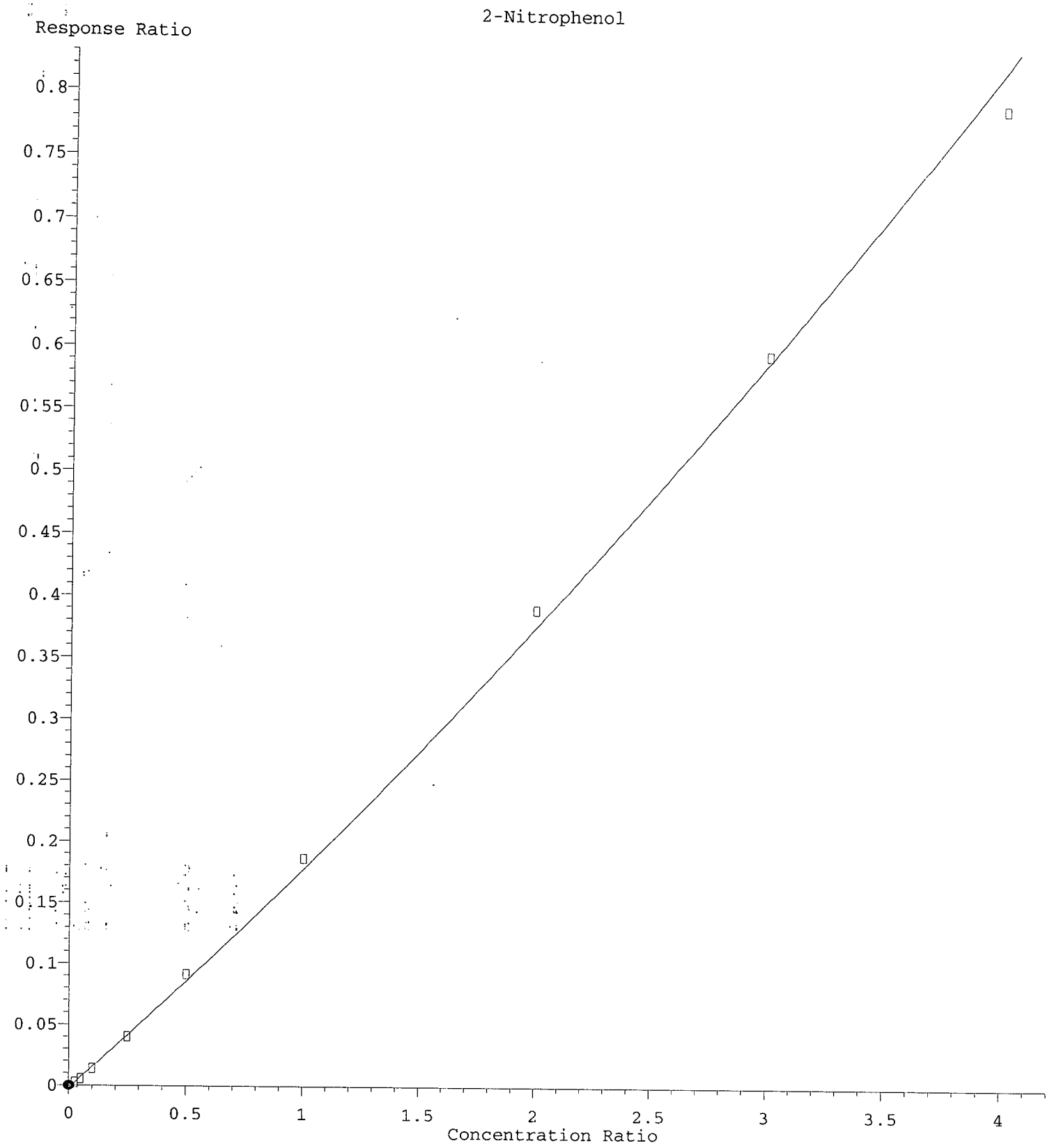
(22) Isophorone (T)

7.397min (+ 0.044) 7.73 ng/ml m

response 177

Ion	Exp%	Act%
82.10	100.00	100.00
138.10	22.10	0.00
95.10	6.40	0.00
0.00	0.00	0.00

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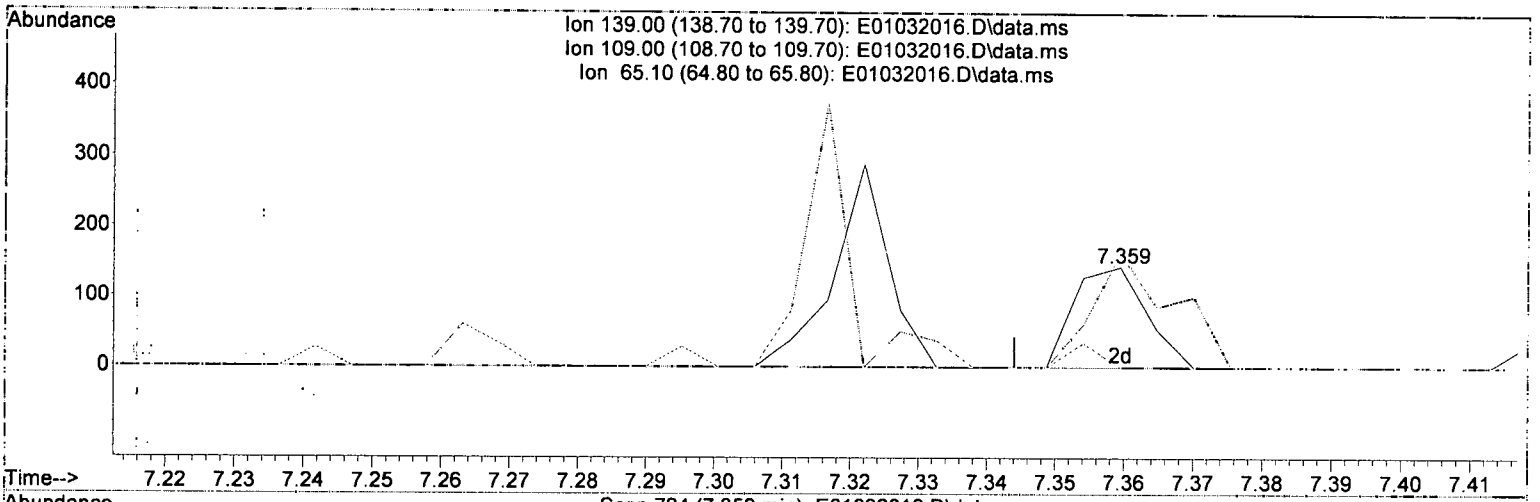


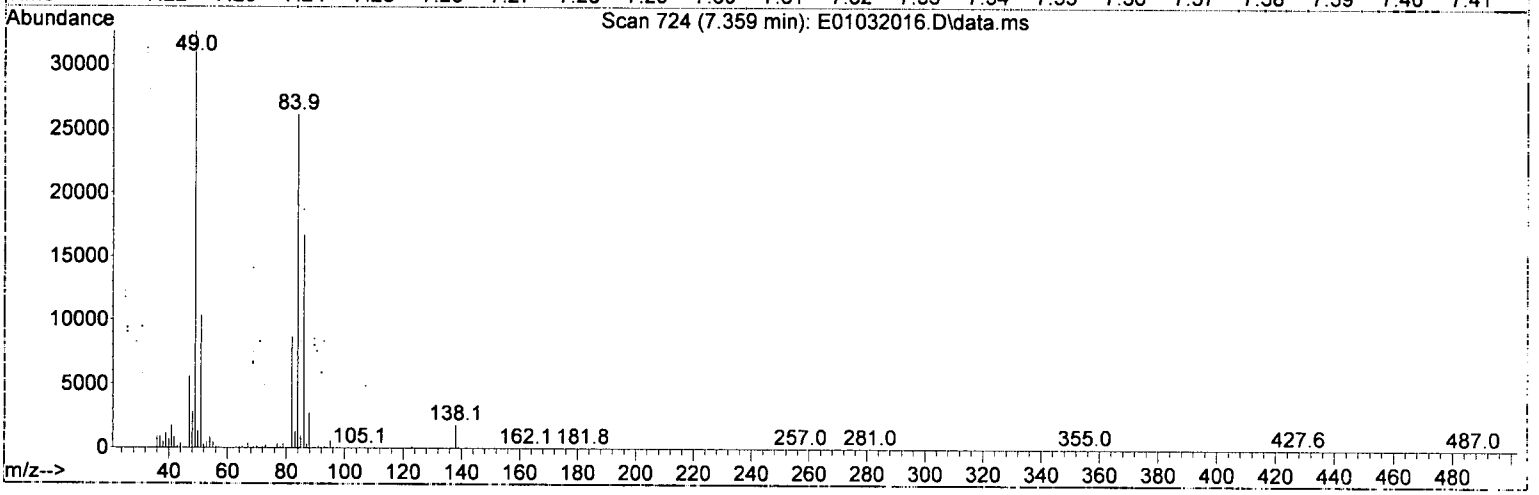
R = 8.71e-003 A*A + 1.71e-001 A - 2.28e-003
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





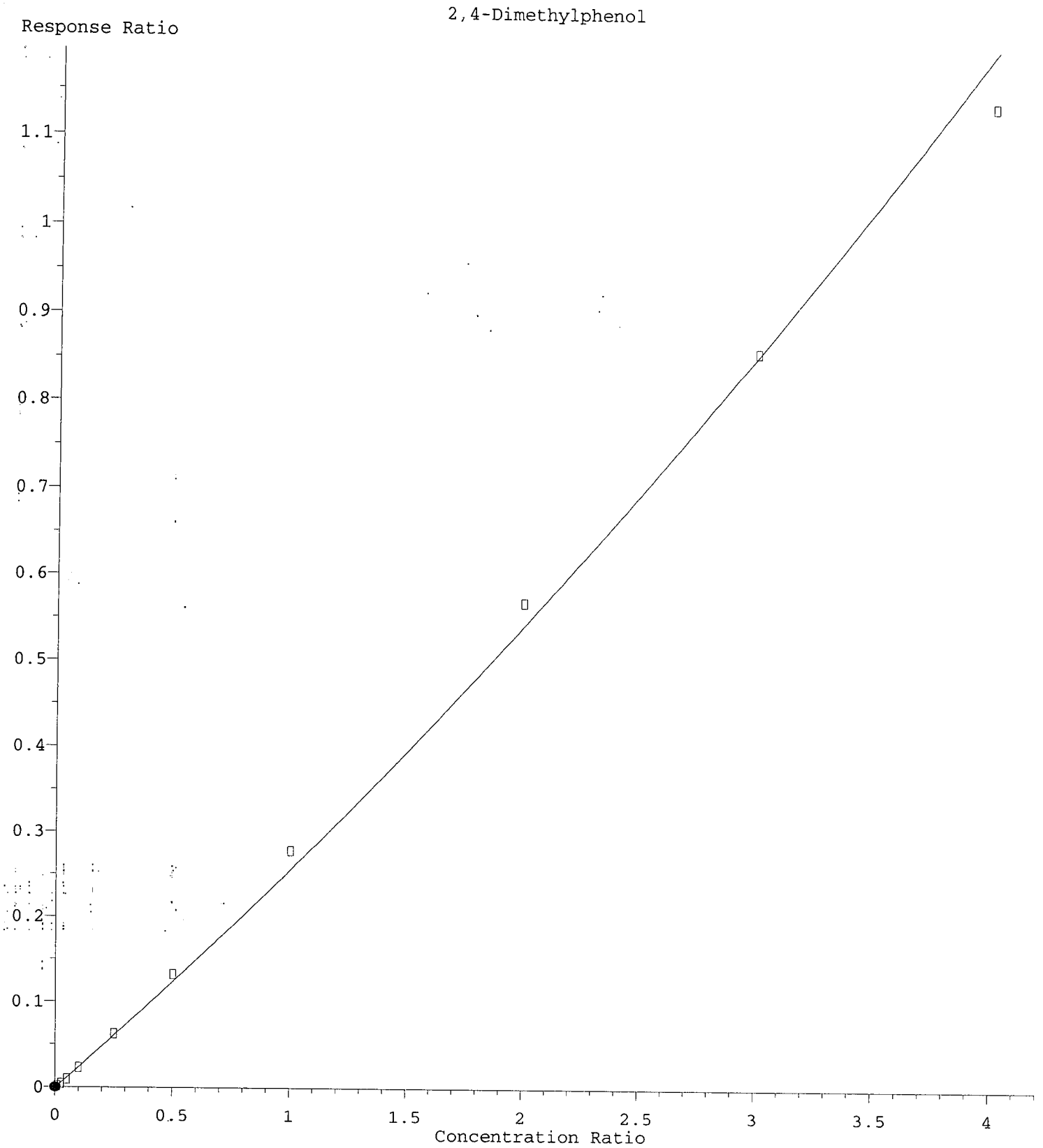
TIC: E01032016.D\data.ms

(23) 2-Nitrophenol (T)

7.359min (-0.085) 27.22 ng/ml m

response 104

Ion	Exp%	Act%
139.00	100.00	100.00
109.00	20.70	0.00
65.10	36.50	113.99#
0.00	0.00	0.00

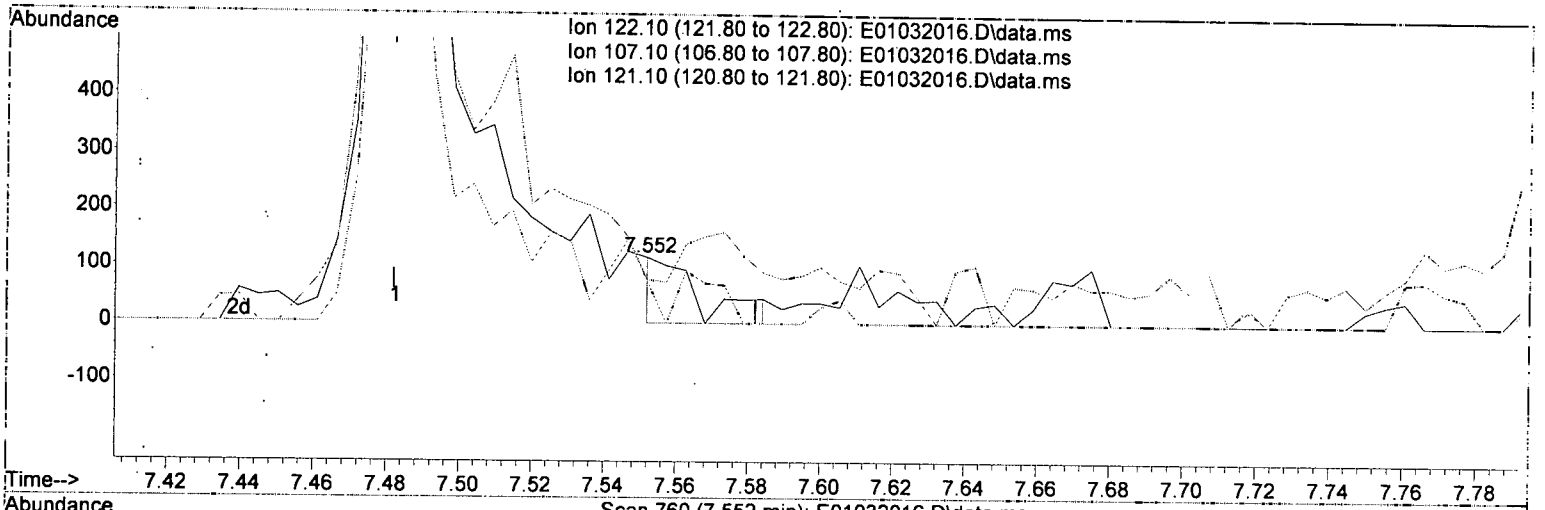


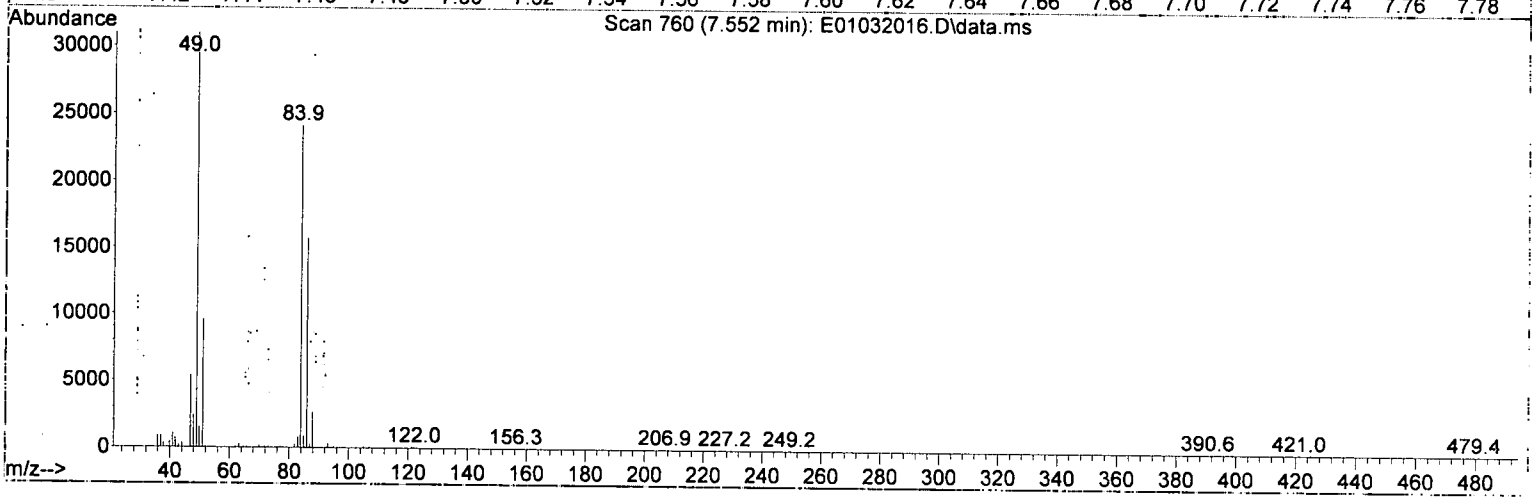
R = 1.43e-002 A*A + 2.43e-001 A - 1.33e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





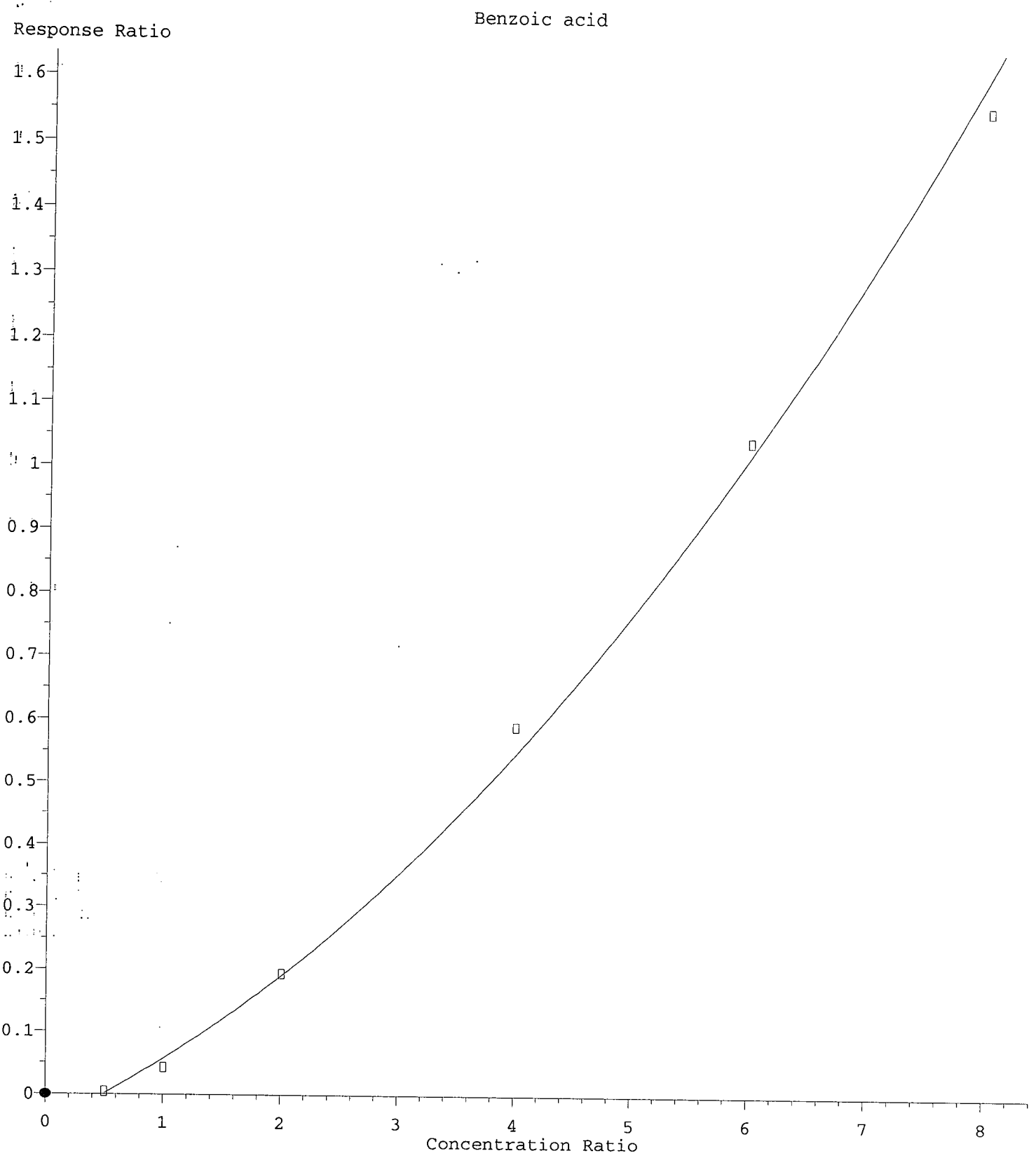
TIC: E01032016.D\data.ms

(24) 2,4-Dimethylphenol (T)

7.552min (+ 0.070) 11.41 ng/ml m

response 103

Ion	Exp%	Act%
122.10	100.00	100.00
107.10	105.60	65.52#
121.10	56.90	62.93
0.00	0.00	0.00

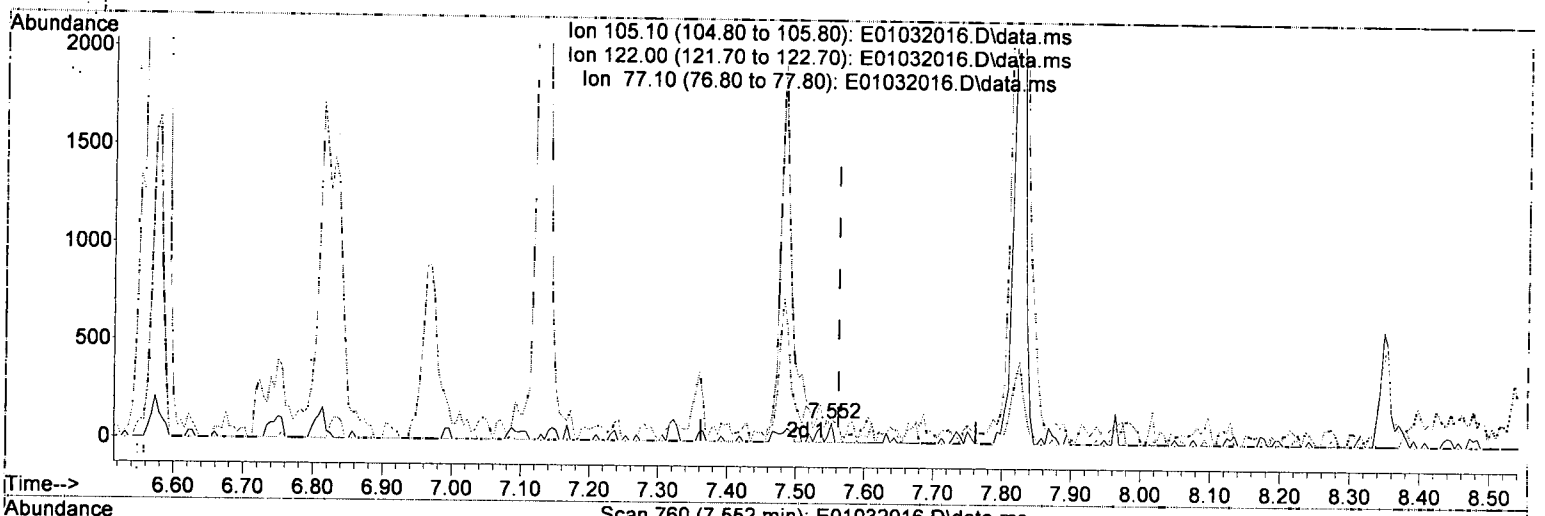


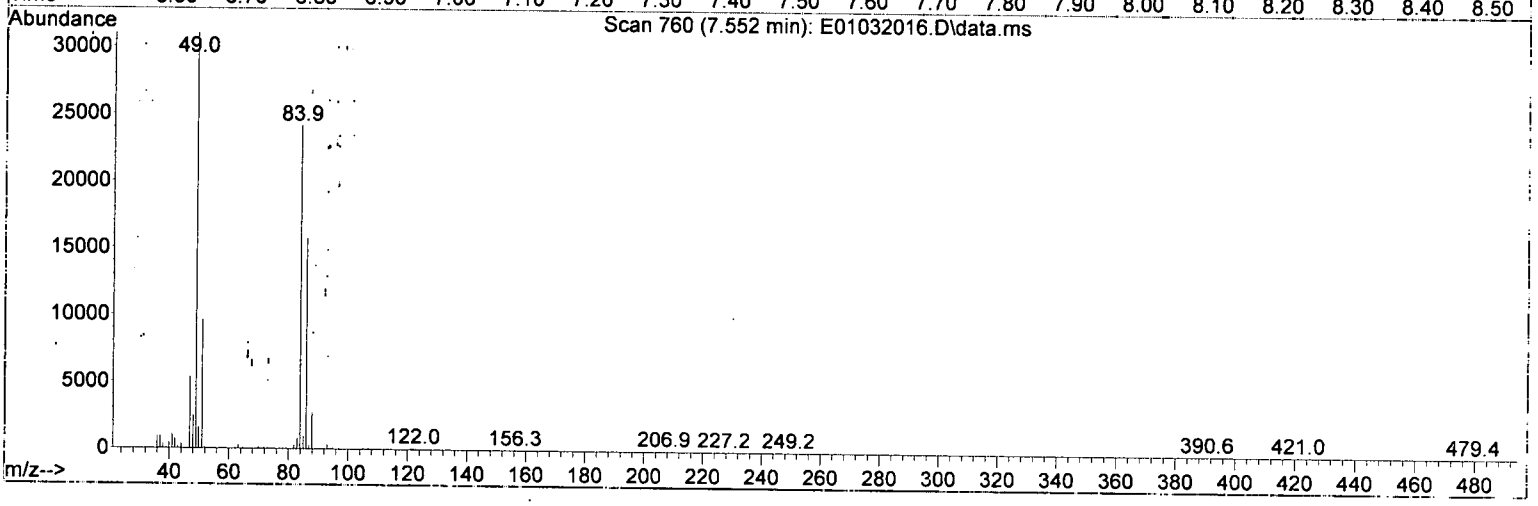
R = 1.48e-002 A*A + 8.92e-002 A - 4.68e-002
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





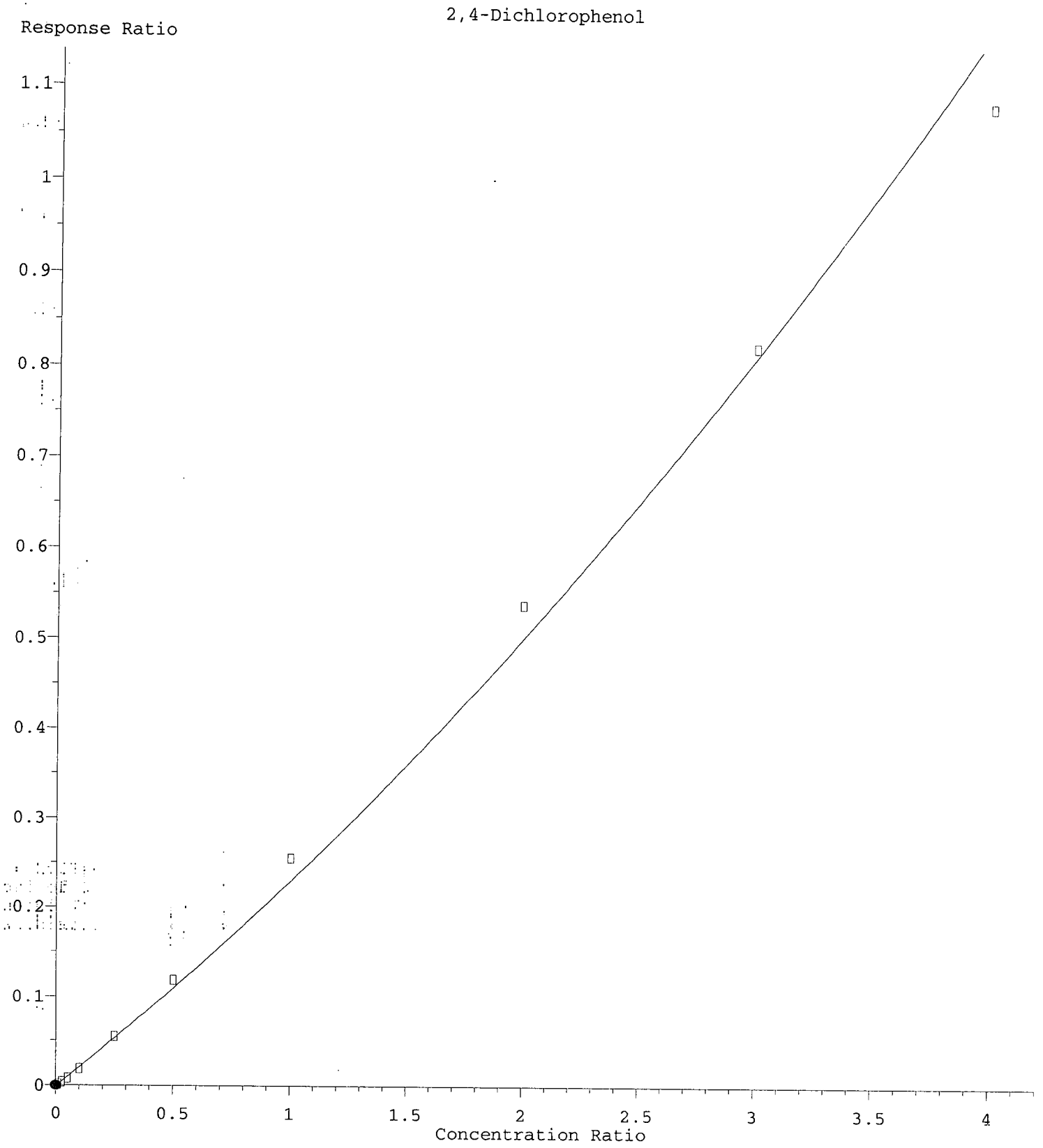
TIC: E01032016.D\data.ms

(26) Benzoic acid (T)

7.552min (-0.010) 971.73 ng/ml m

response 122

Ion	Exp%	Act%
105.10	100.00	100.00
122.00	87.10	118.37#
77.10	69.80	87.76
0.00	0.00	0.00

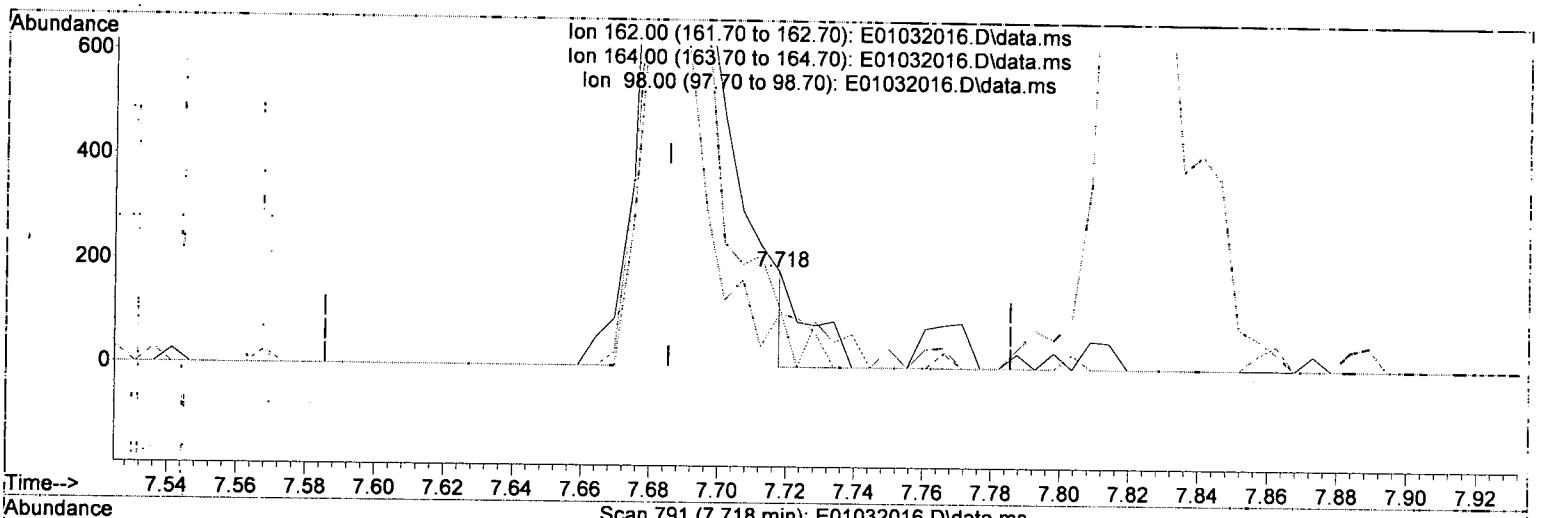


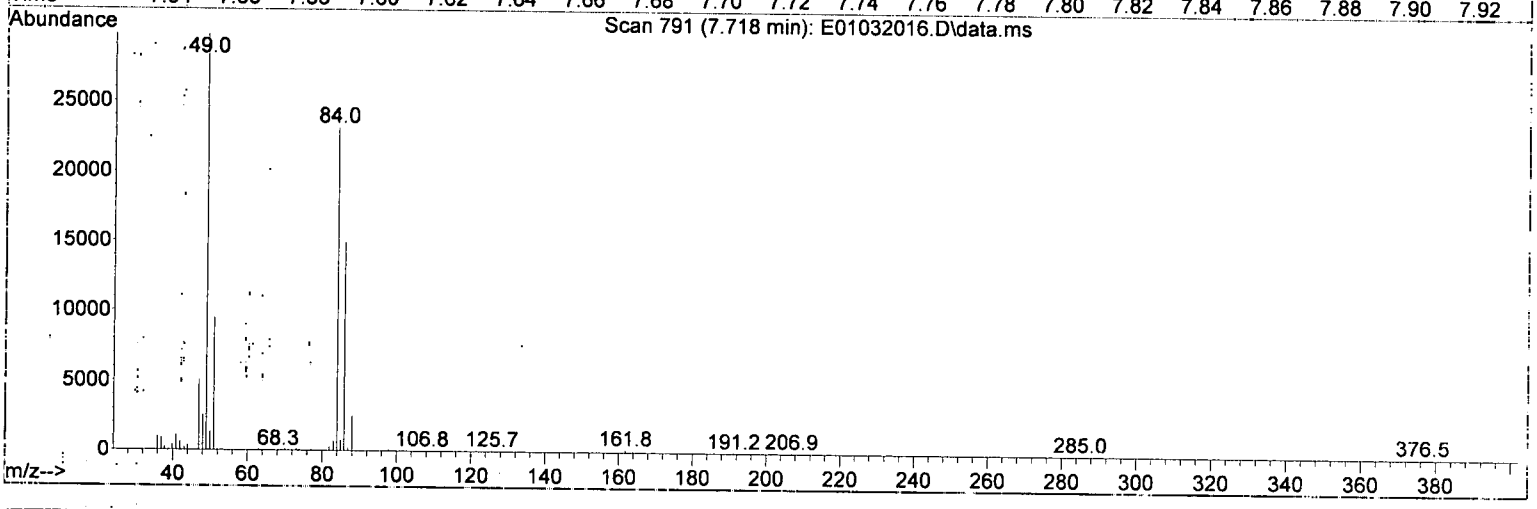
R = 2.03e-002 A*A + 2.10e-001 A - 9.42e-004
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV9_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





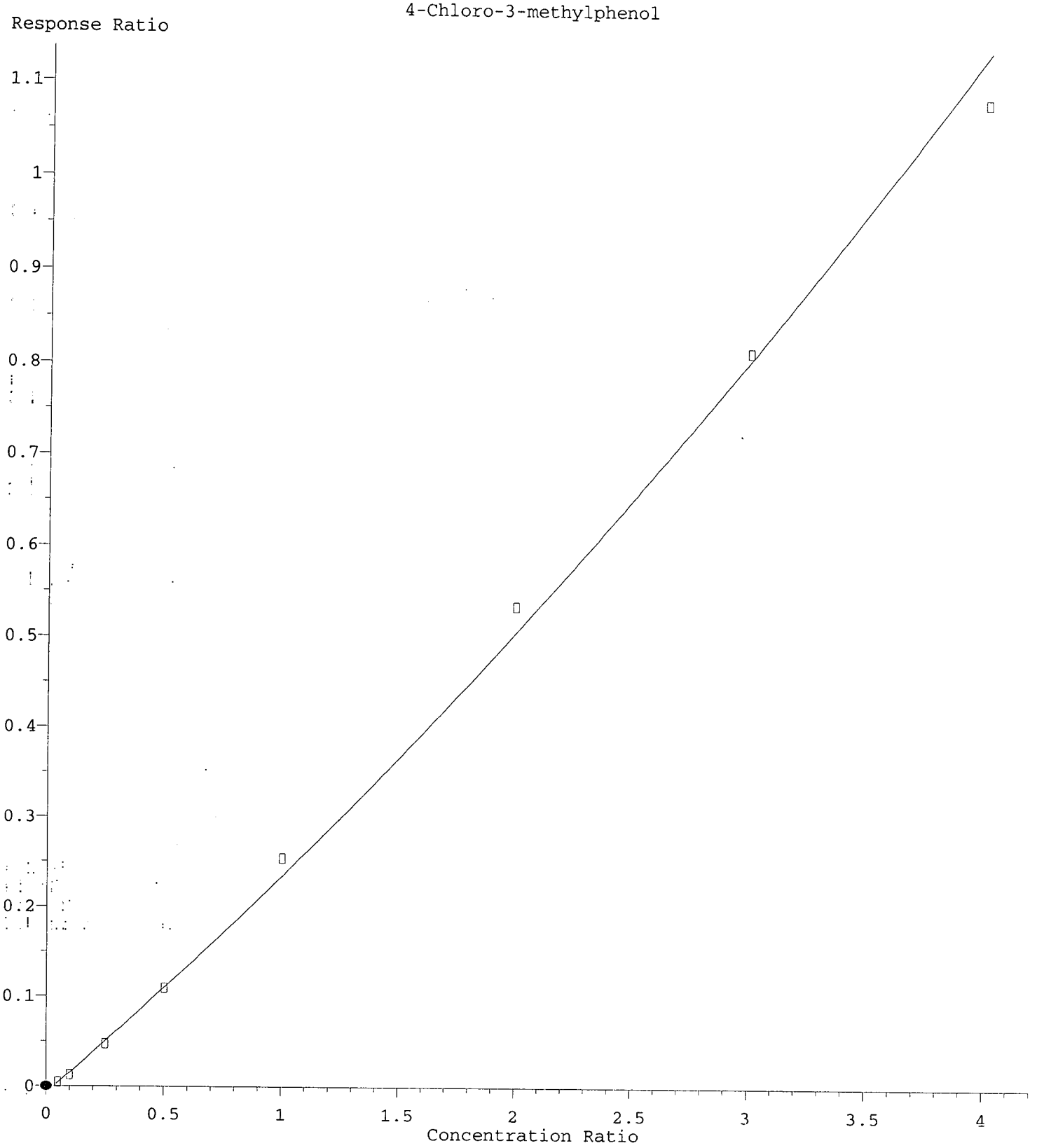
TIC: E01032016.D\data.ms

(27) 2,4-Dichlorophenol (T)

7.718min (+ 0.032) 9.77 ng/ml m

response 159

Ion	Exp%	Act%
162.00	100.00	100.00
164.00	62.60	63.04
98.00	34.00	54.89
0.00	0.00	0.00

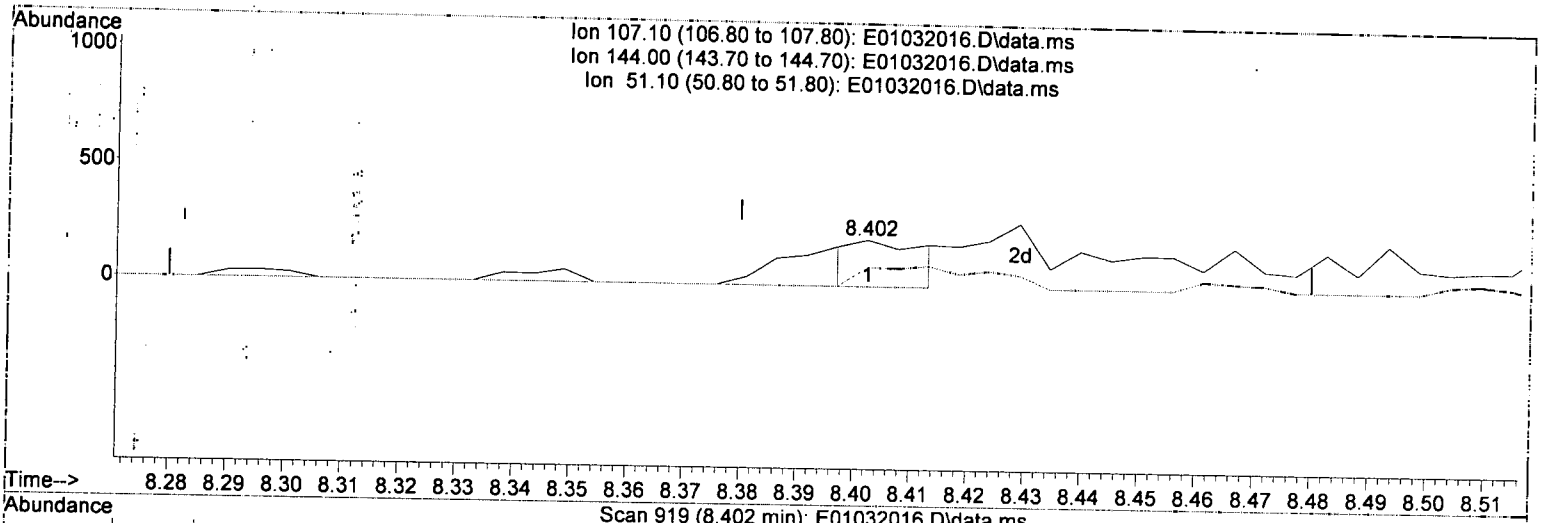


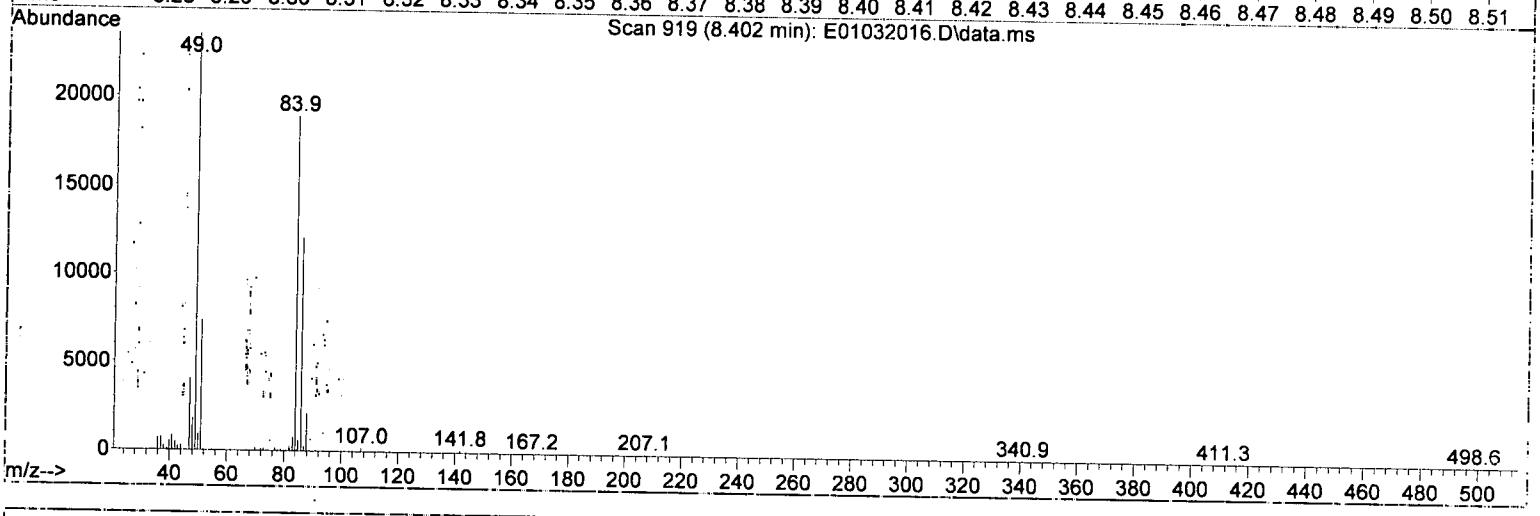
R = 1.45e-002 A*A + 2.27e-001 A - 7.60e-003
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





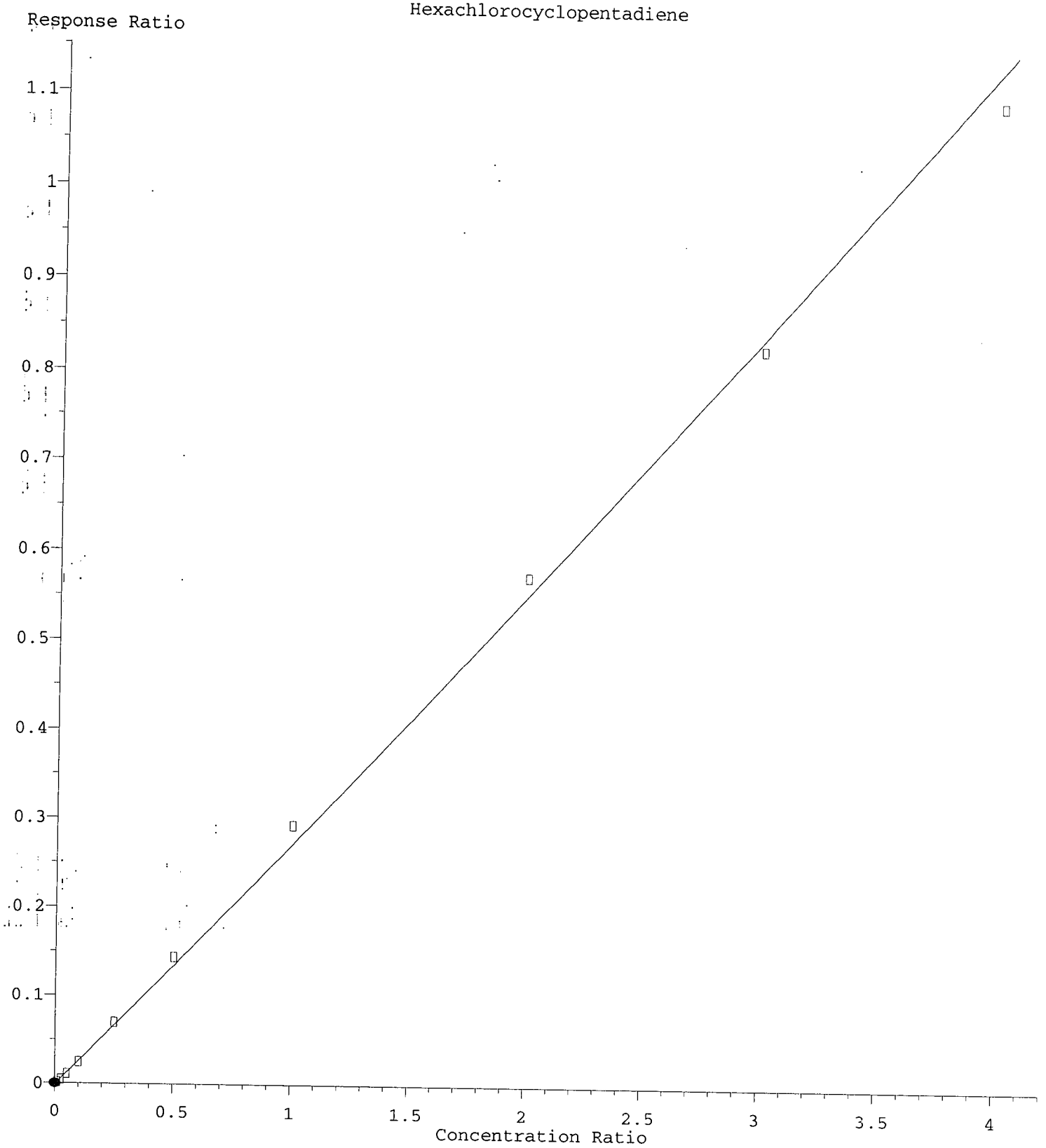
TIC: E01032016.D\data.ms

(32) 4-Chloro-3-methylphenol (T)

8.402min (+ 0.022) 67.49 ng/ml m ✓

response 178

Ion	Exp%	Act%
107.10	100.00	100.00
144.00	30.30	24.63
51.10	18.80	3619.21#
0.00	0.00	0.00

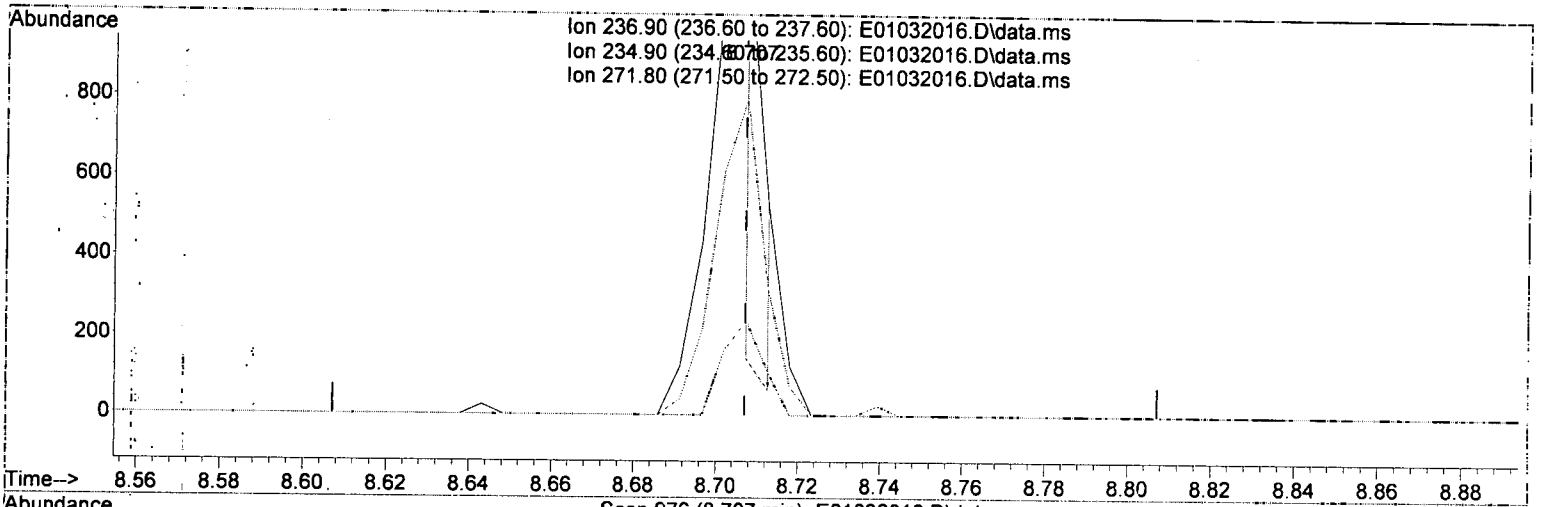


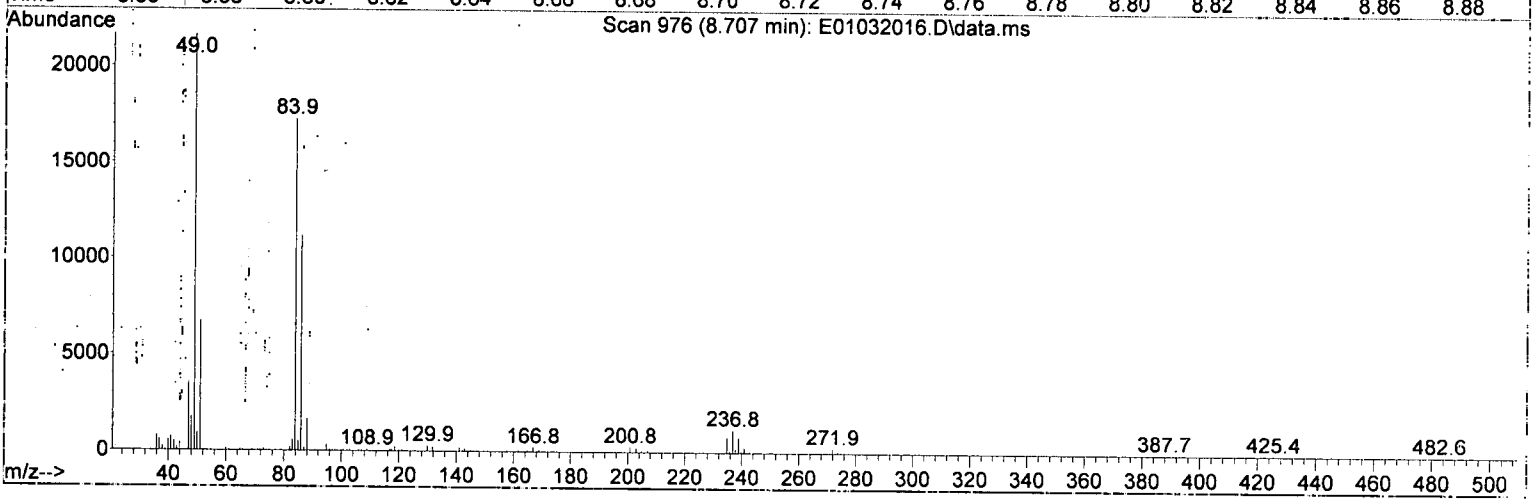
R = 3.71e-003 A*A + 2.69e-001 A - 1.53e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





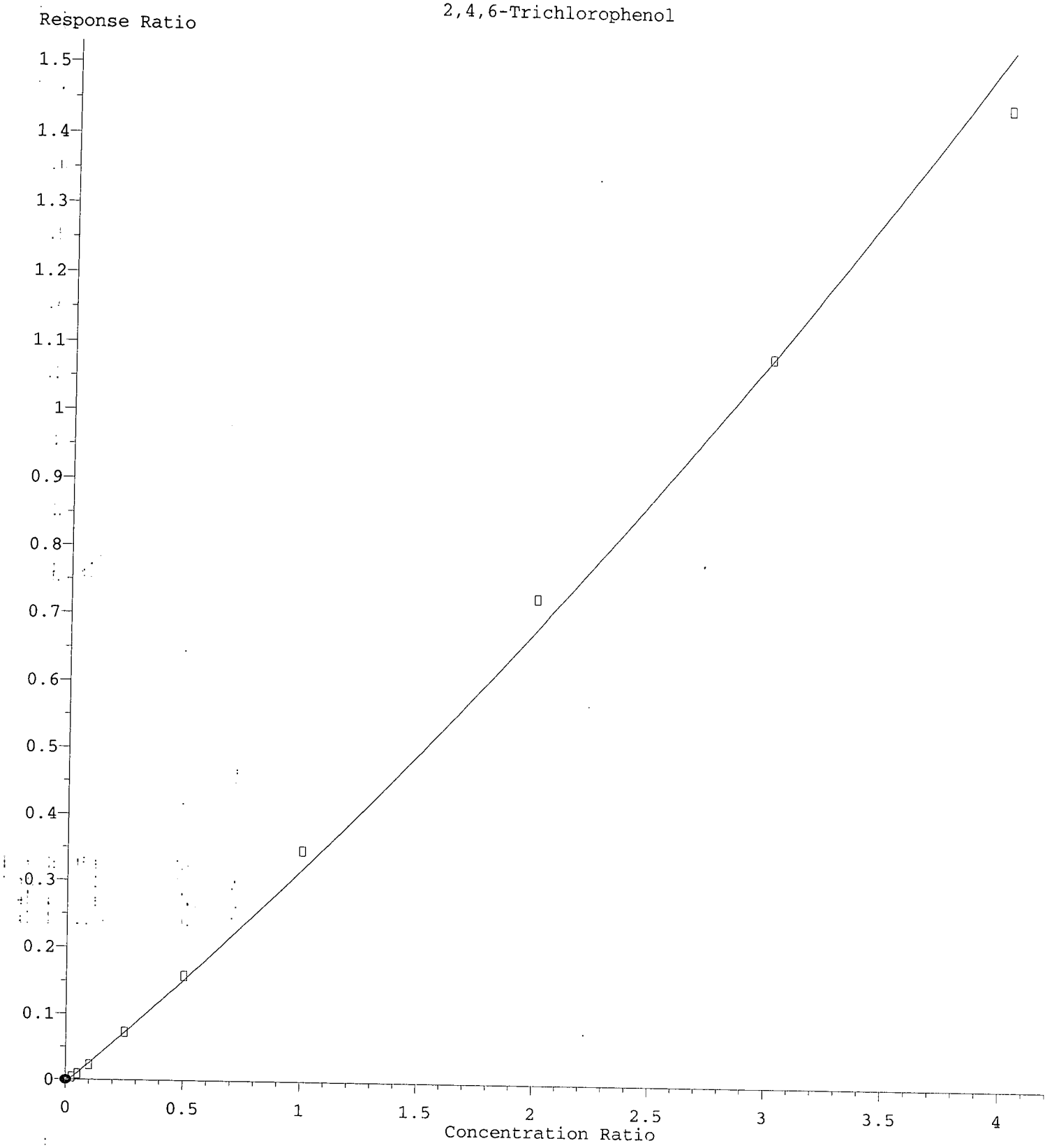
TIC: E01032016.D\data.ms

(36) Hexachlorocyclopentadiene (T)

8.707min (+ 0.000) 12.58 ng/ml m ✓

response 137

Ion	Exp%	Act%
236.90	100.00	100.00
234.90	64.00	68.15
271.80	13.60	20.50
0.00	0.00	0.00

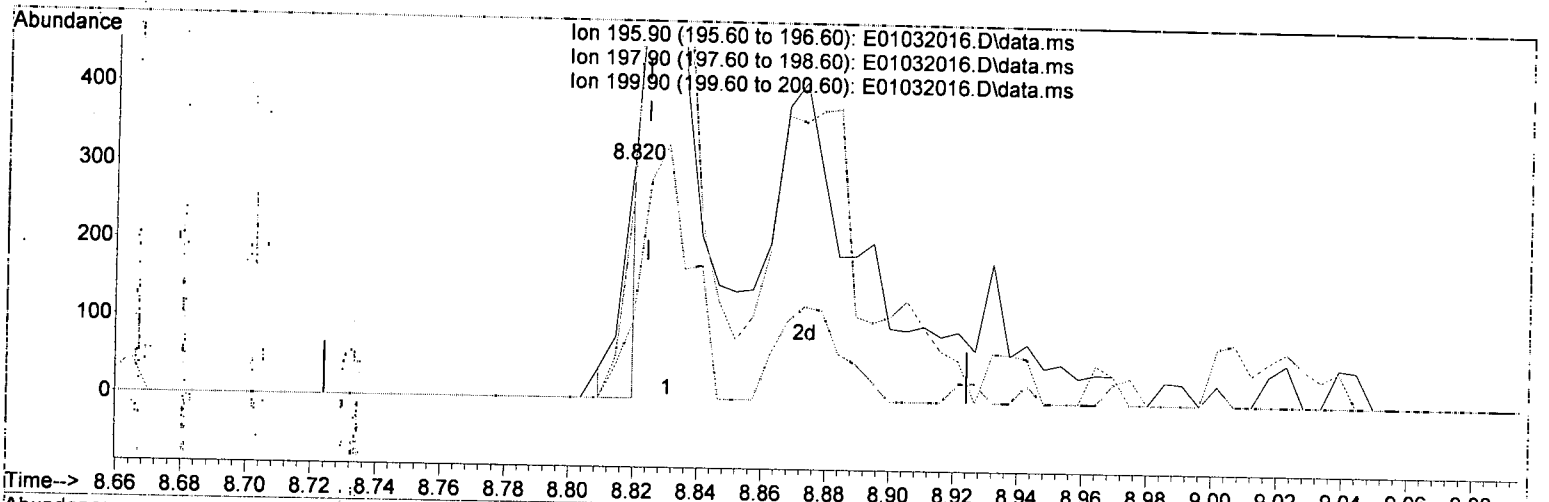


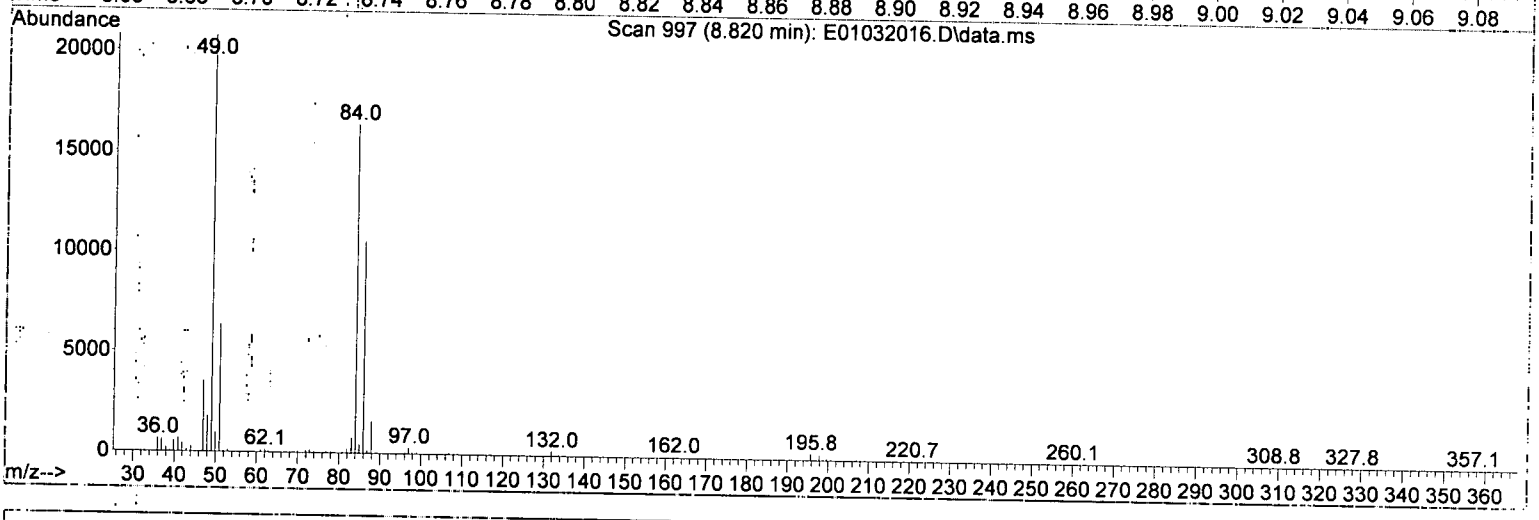
R = 2.05e-002 A*A + 3.03e-001 A - 4.73e-003
Coef of Det (r^2) = 0.992 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





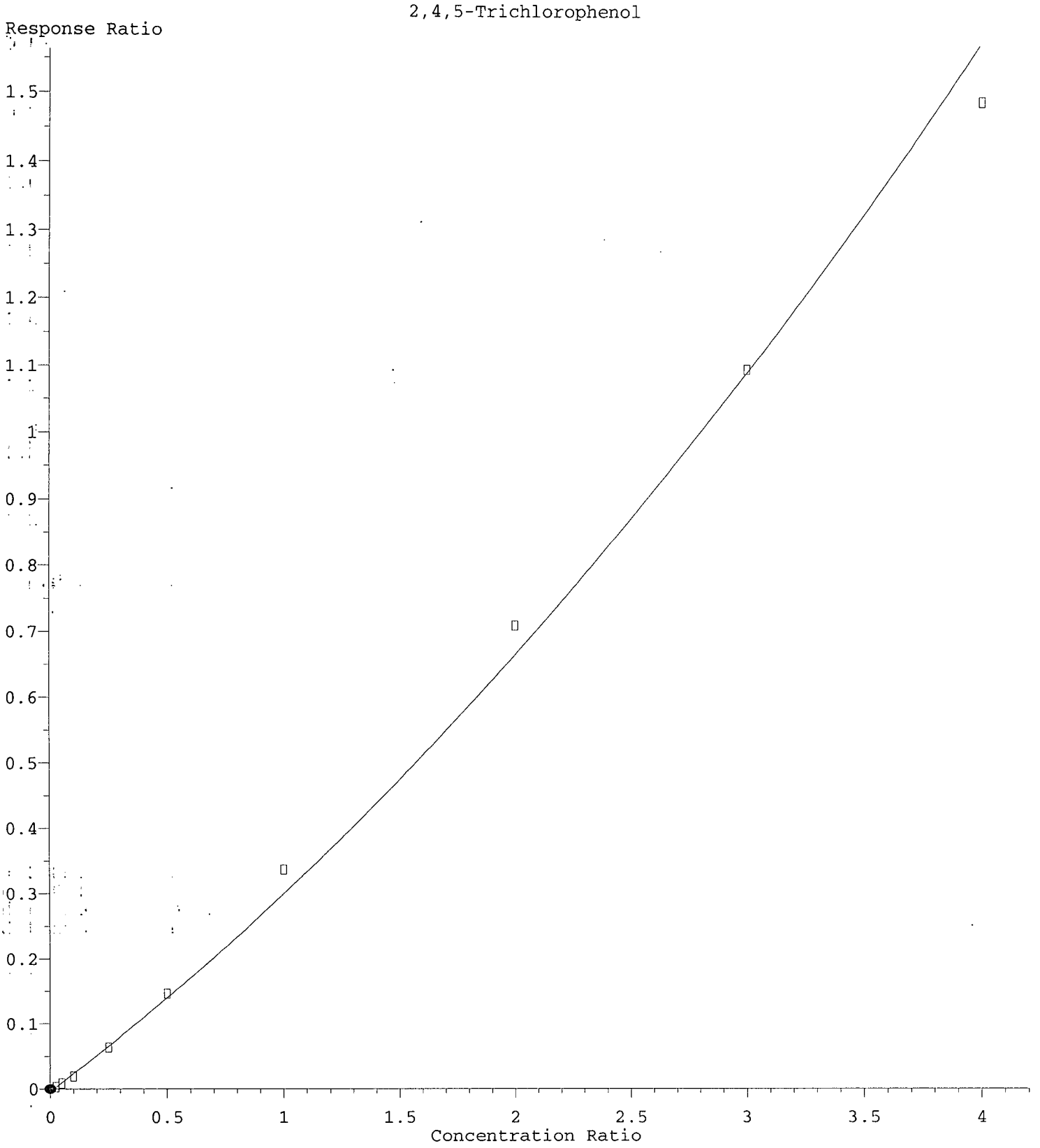
TIC: E01032016.D\data.ms

(37) 2,4,6-Trichlorophenol (T)

8.820min (-0.004) 32.23 ng/ml m

response 123

Ion	Exp%	Act%
195.90	100.00	100.00
197.90	95.90	85.15
199.90	30.70	32.67
0.00	0.00	0.00

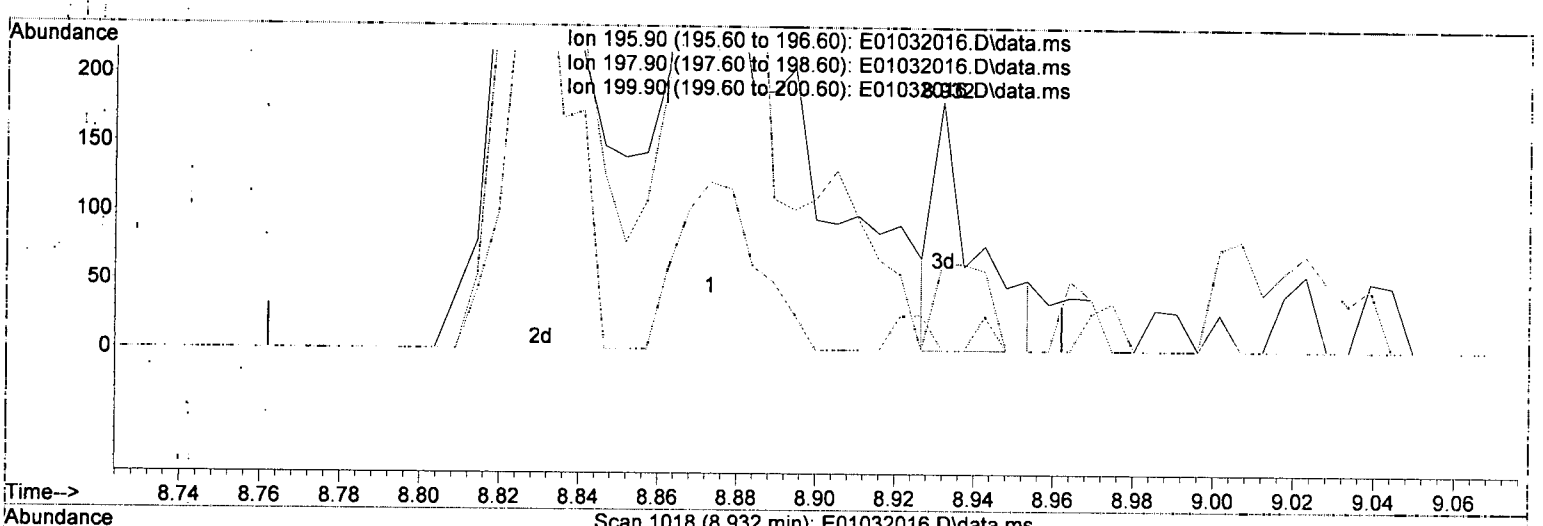


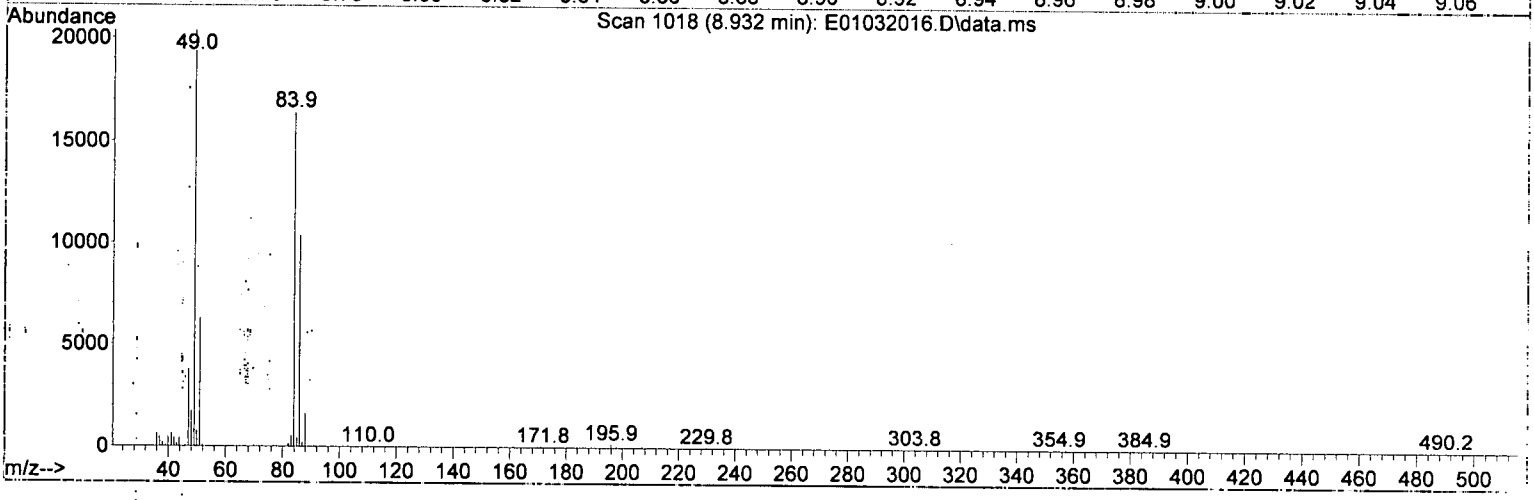
R = 3.06e-002 A*A + 2.73e-001 A - 4.28e-003
Coef of Det (r^2) = 0.992 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





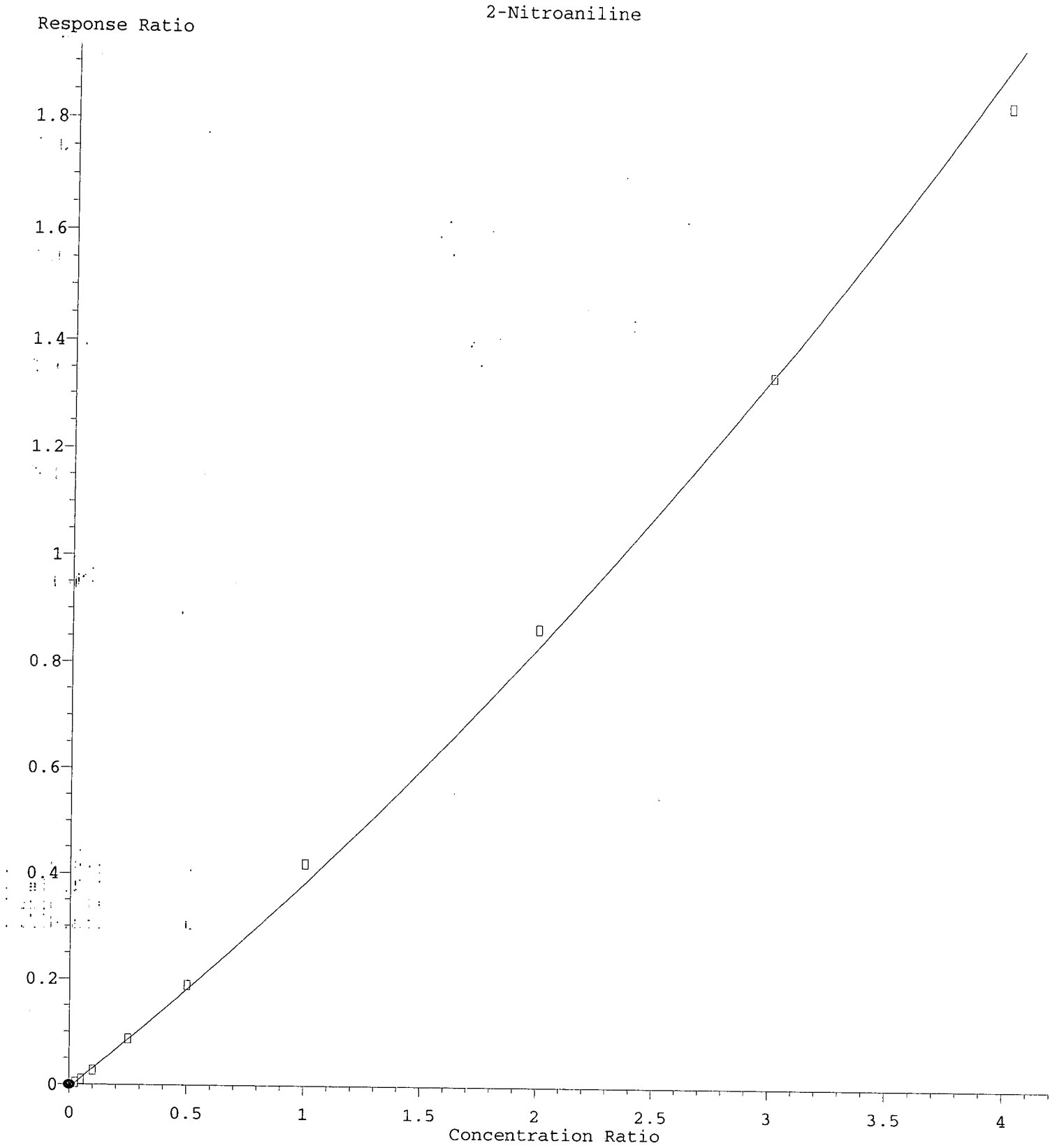
TIC: E01032016.D\data.ms

(38) 2,4,5-Trichlorophenol (T)

8.932min (+ 0.070) 32.52 ng/ml m

response 133

Ion	Exp%	Act%
195.90	100.00	100.00
197.90	95.70	35.36#
199.90	30.70	0.00#
0.00	0.00	0.00

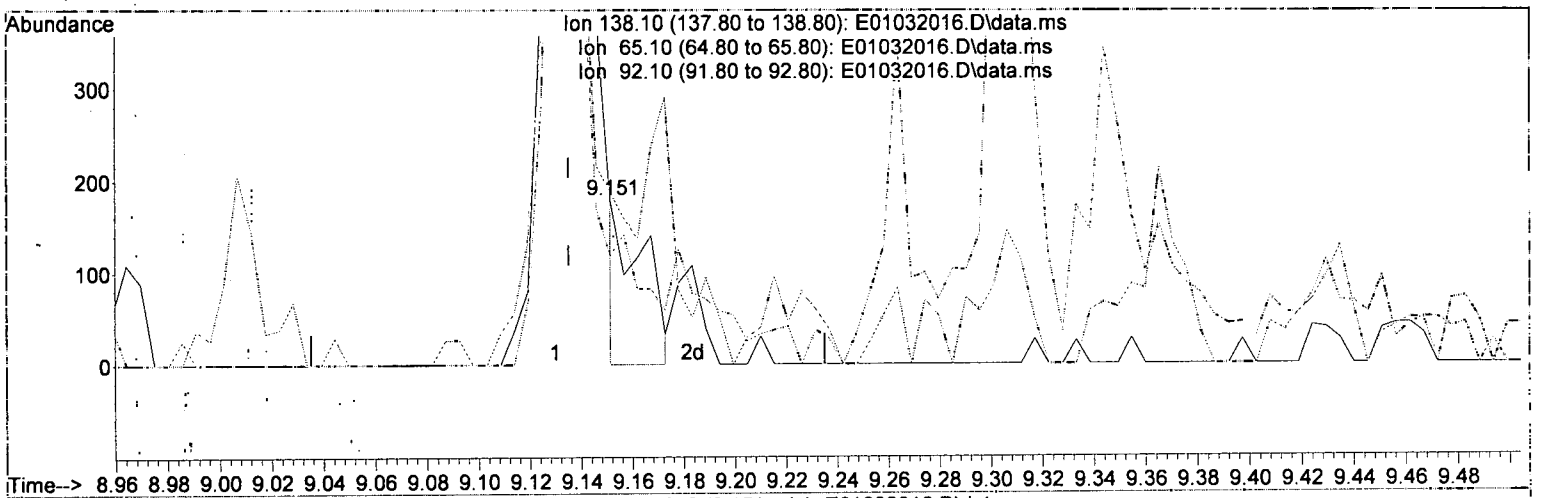


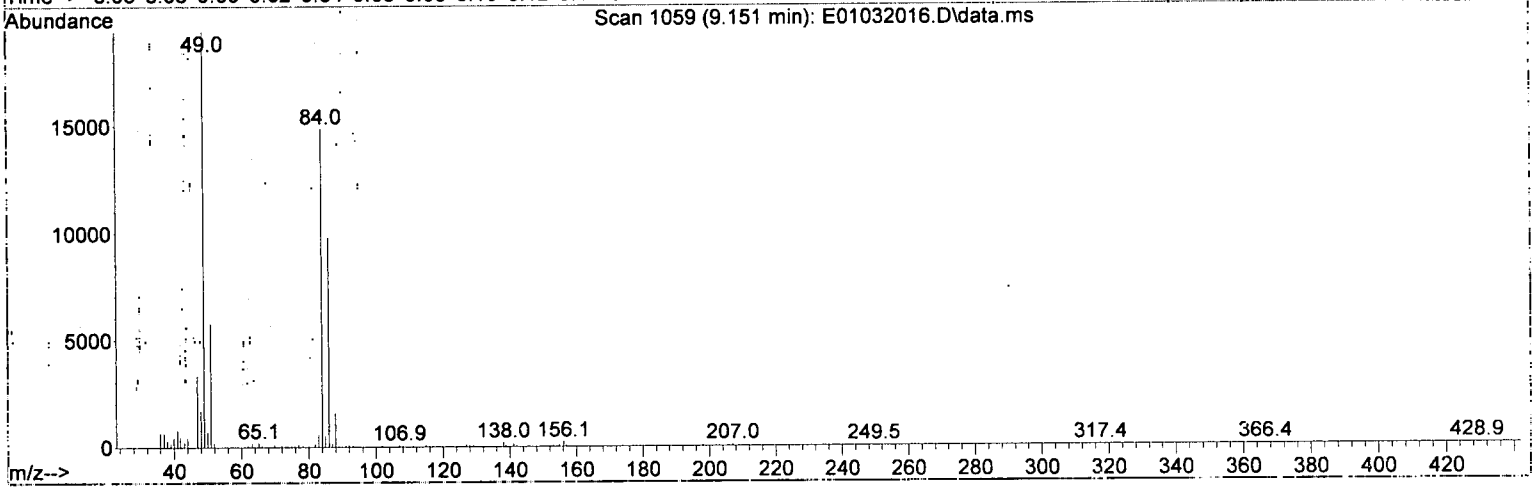
R = 2.98e-002 A*A + 3.59e-001 A - 5.86e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





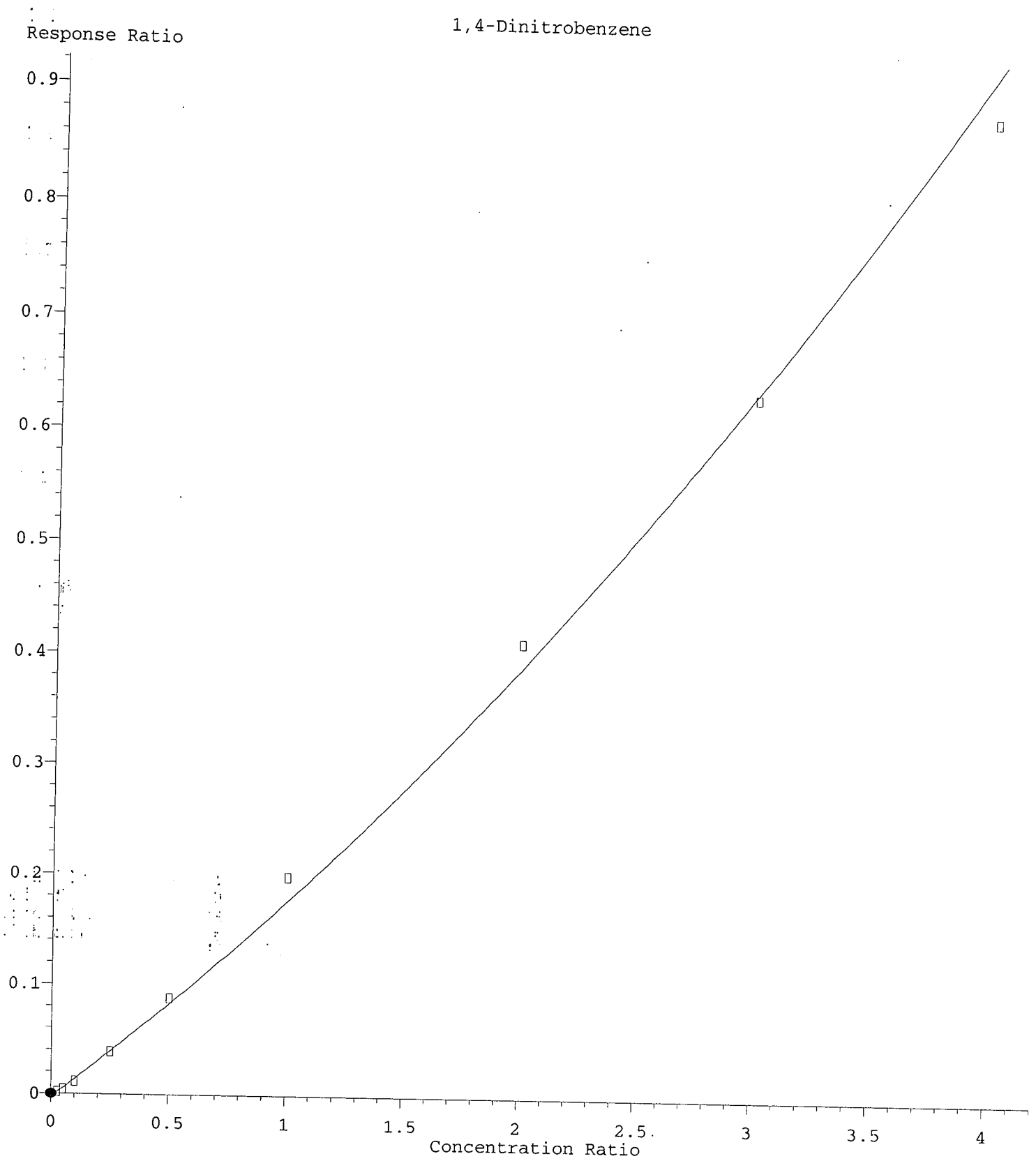
TIC: E01032016.D\data.ms

(42) 2-Nitroaniline (T)

9.151min (+ 0.016) 33.39 ng/ml m

response 124

Ion	Exp%	Act%
138.10	100.00	100.00
65.10	72.60	104.44#
92.10	56.50	66.11
0.00	0.00	0.00

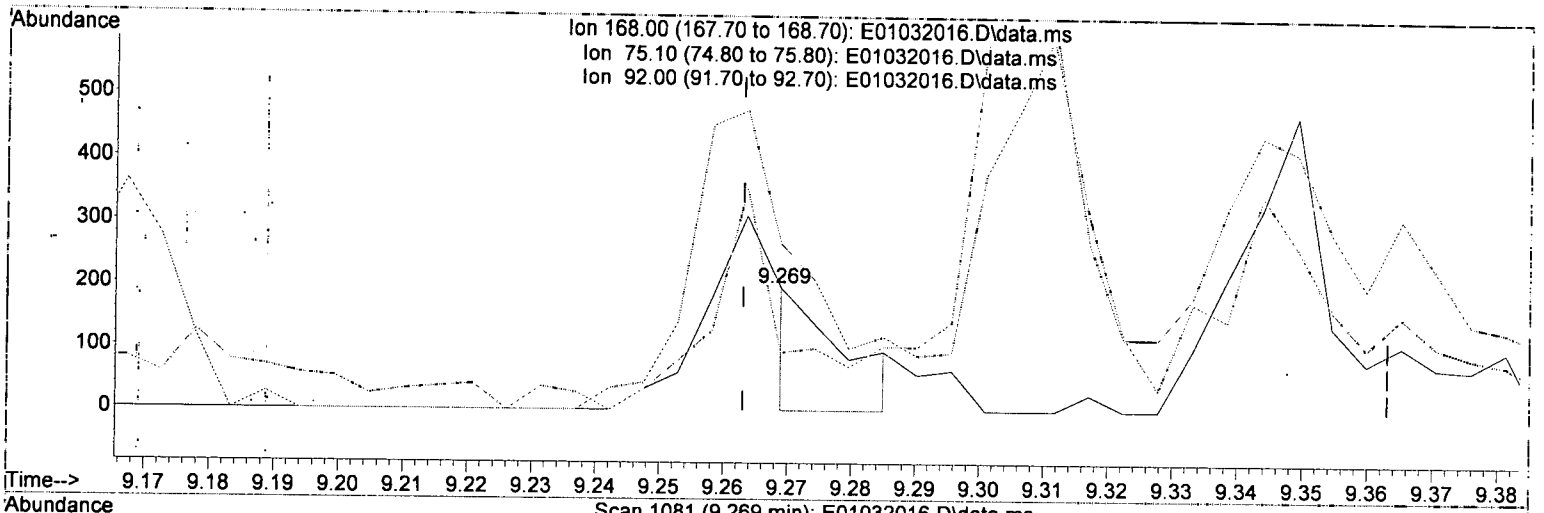


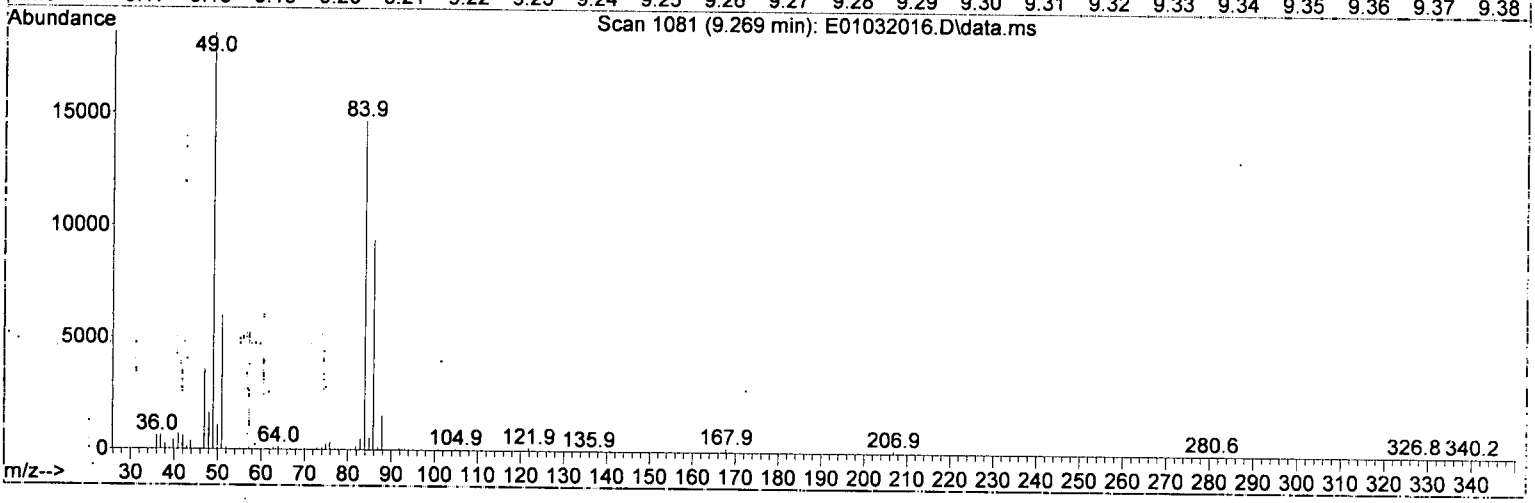
R = 1.72e-002 A*A + 1.62e-001 A - 2.80e-003
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





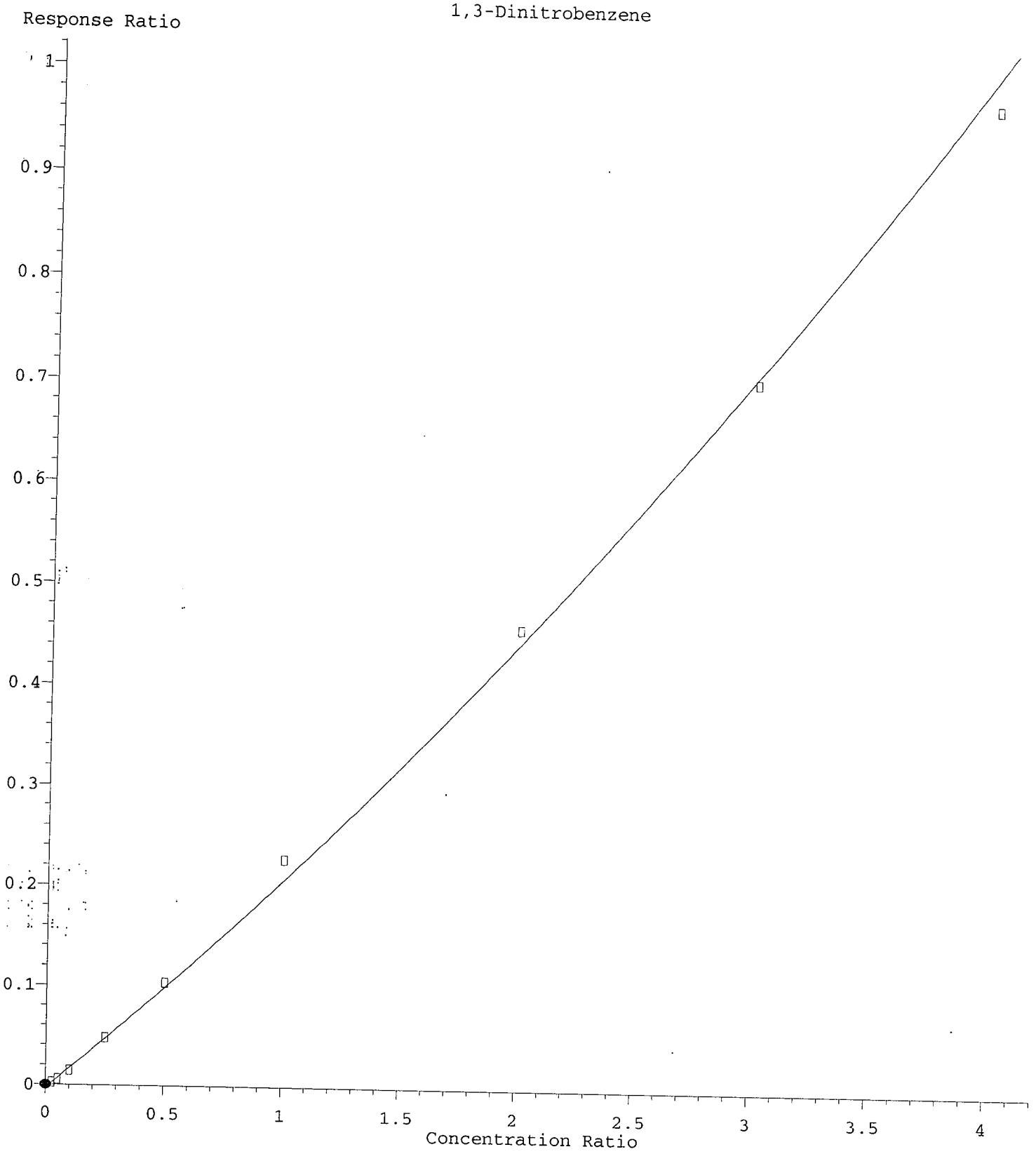
TIC: E01032016.D\data.ms

(44) 1,4-Dinitrobenzene (T)

9.269min (+ 0.006) 36.07 ng/ml m

response 101

Ion	Exp%	Act%
168.00	100.00	100.00
75.10	98.00	135.53#
92.00	32.10	47.72
0.00	0.00	0.00

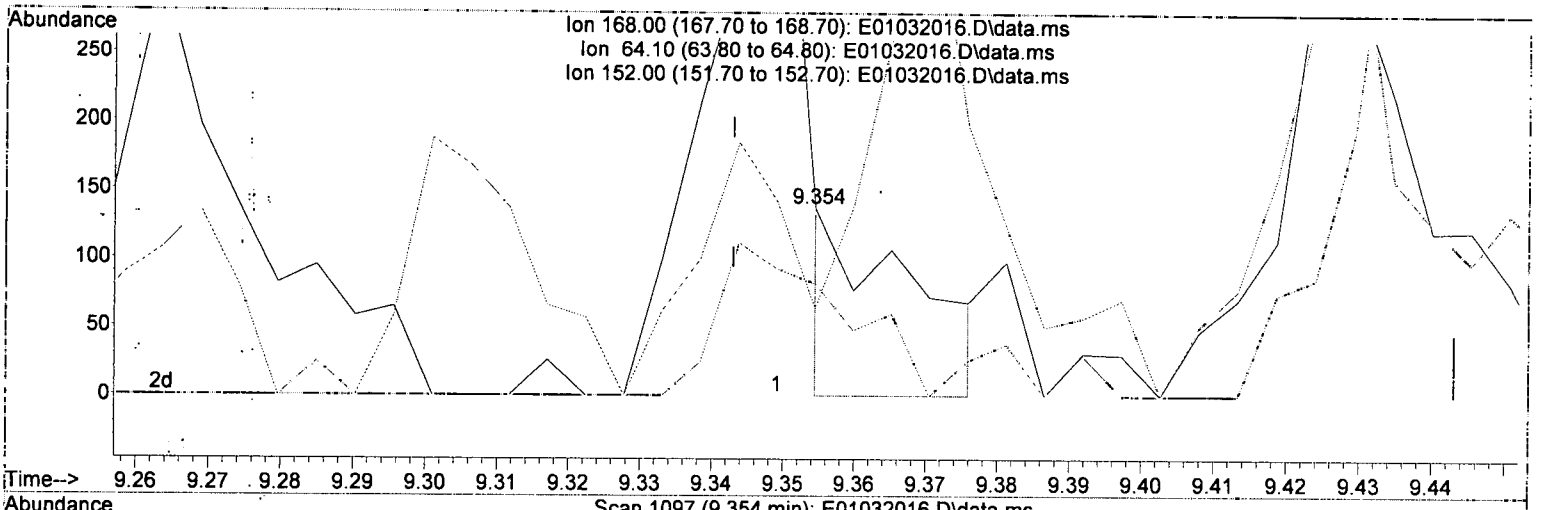


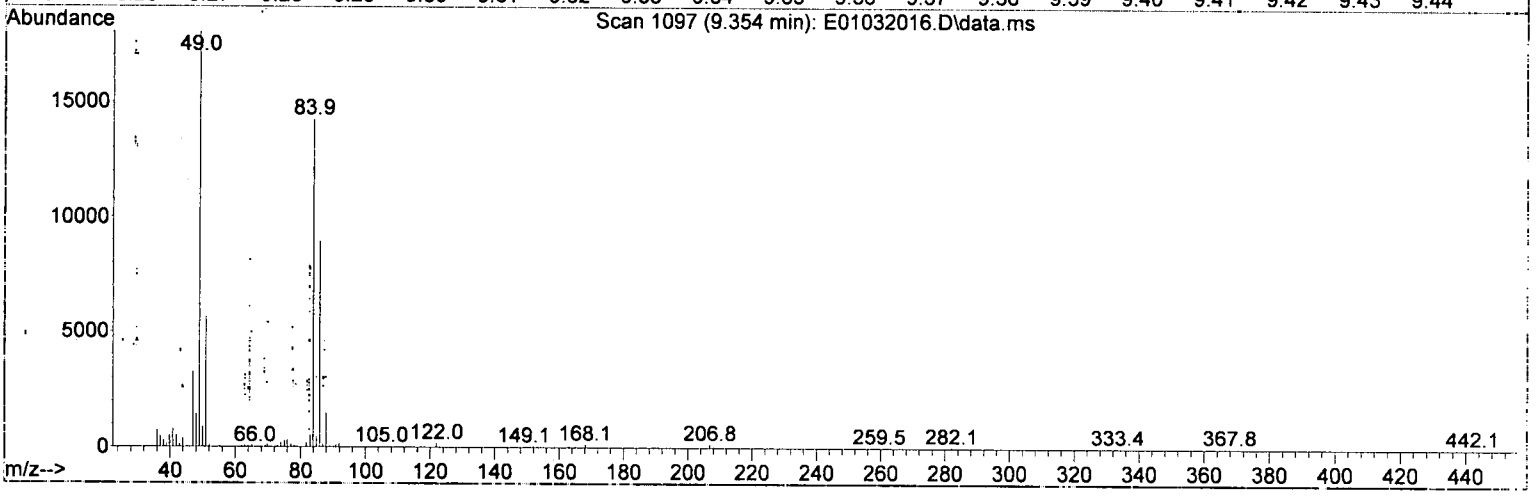
R = 1.40e-002 A*A + 1.96e-001 A - 3.01e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\8575_0E0320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





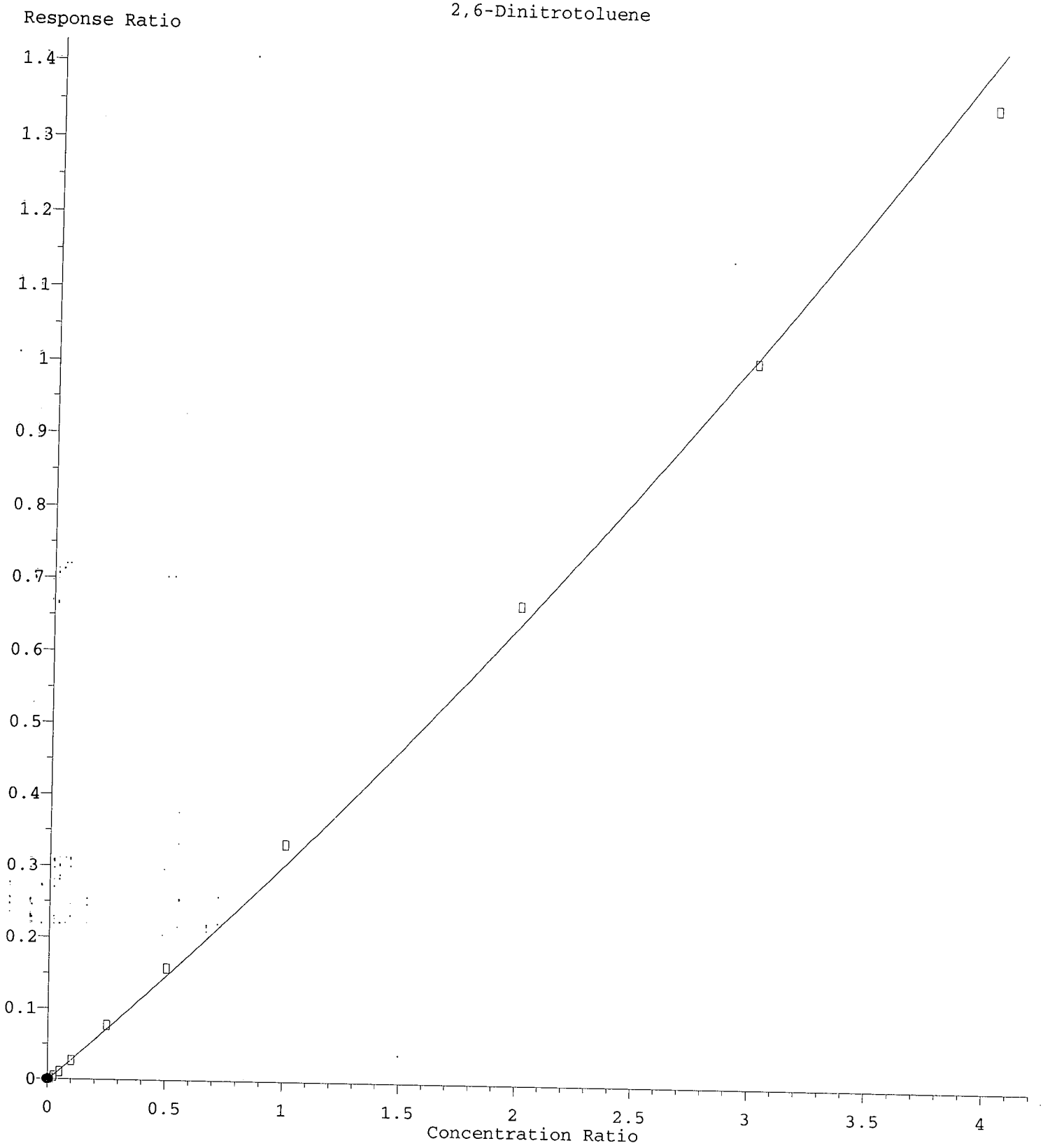
TIC: E01032016.D\data.ms

(46) 1,3-Dinitrobenzene (T)

9.354min (+ 0.011) 32.05 ng/ml m

response 104

Ion	Exp%	Act%
168.00	100.00	100.00
64.10	22.60	46.72
152.00	7.70	59.85#
0.00	0.00	0.00

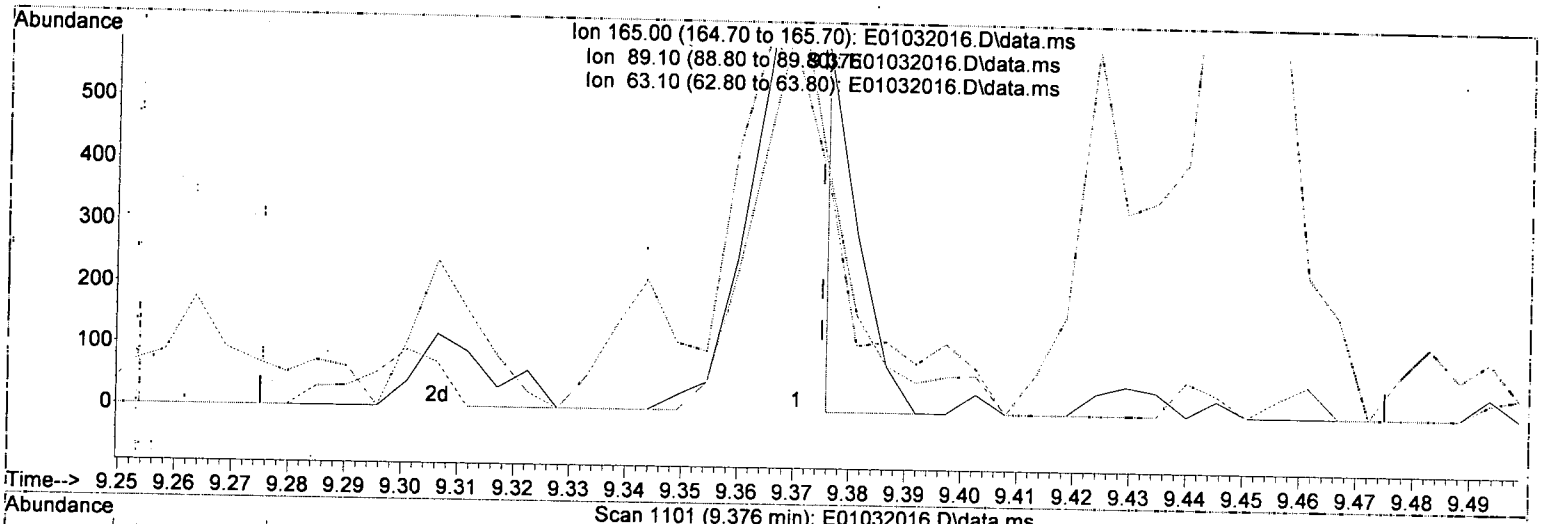


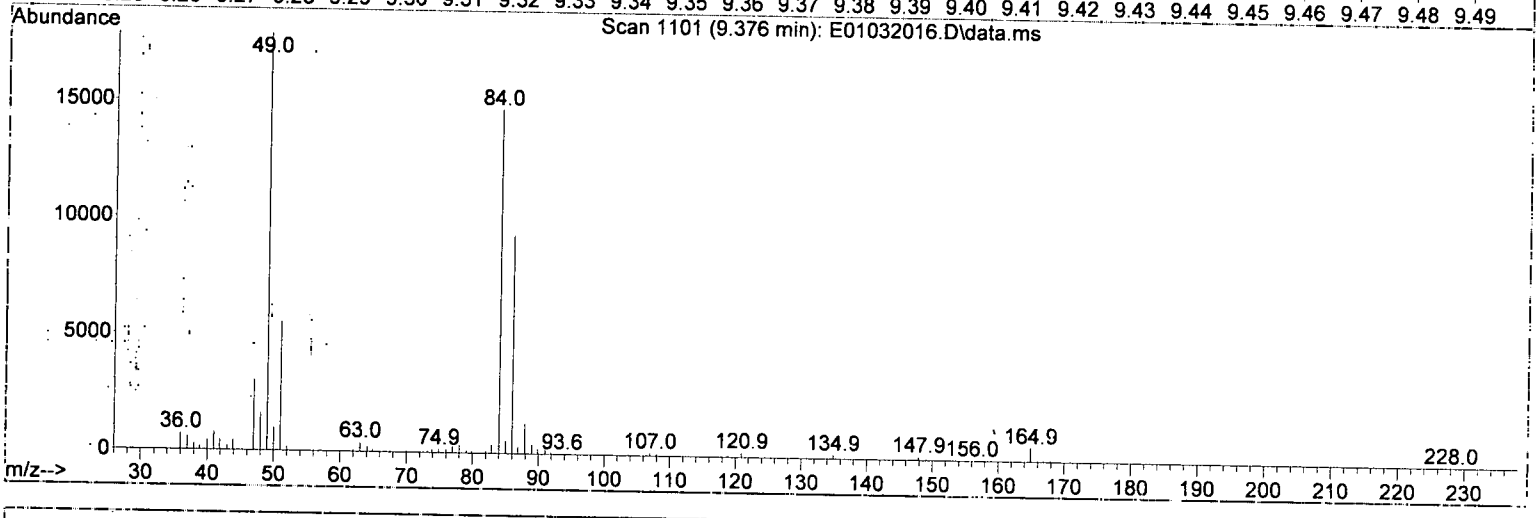
R = 1.67e-002 A*A + 2.89e-001 A - 2.08e-003
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SVOA_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:00:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





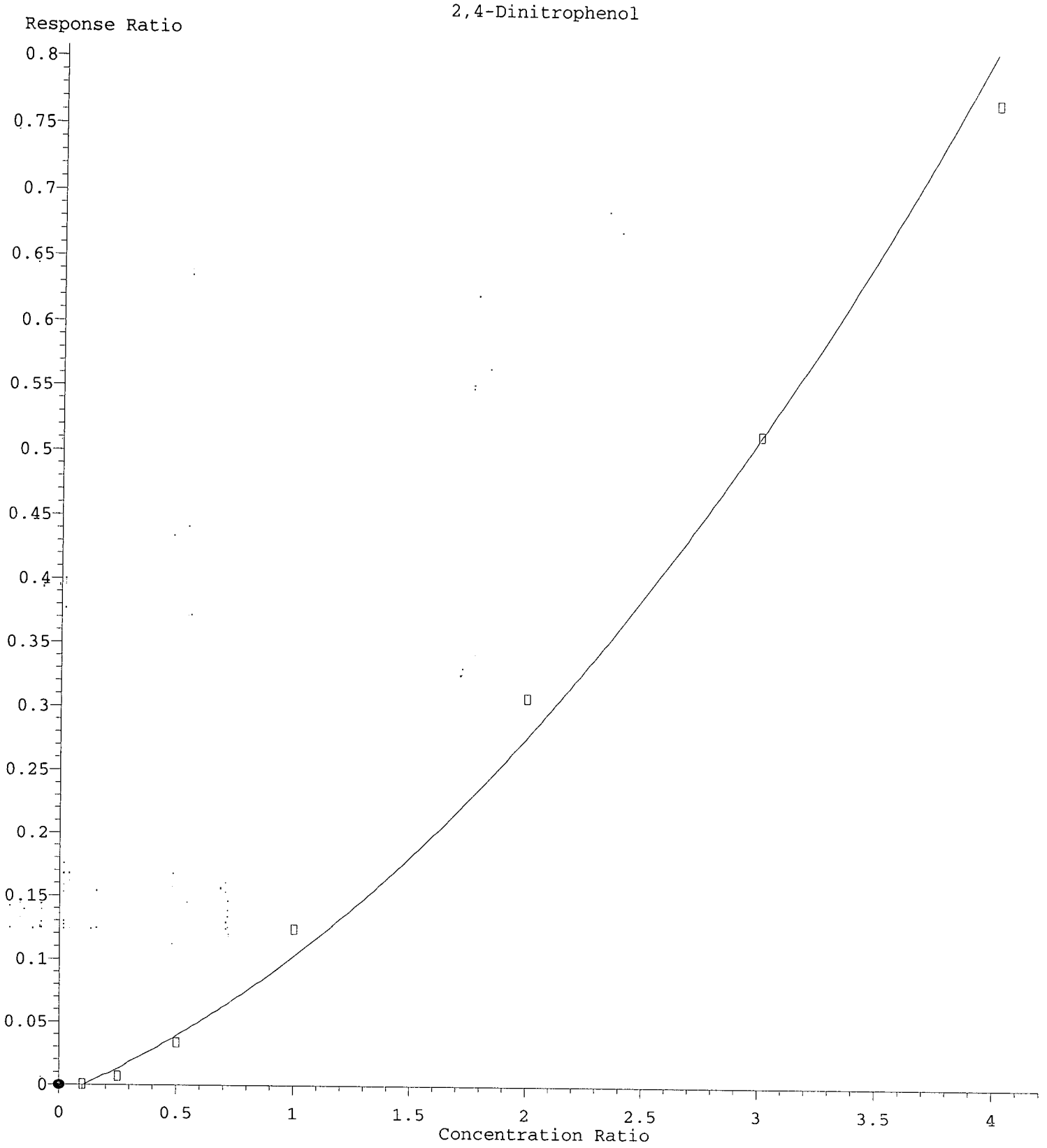
TIC: E01032016.D\data.ms

(47) 2,6-Dinitrotoluene (T)

9.376min (+ 0.001) 15.35 ng/ml m

response 117

Ion	Exp%	Act%
165.00	100.00	100.00
89.10	45.80	67.12
63.10	41.30	65.42
0.00	0.00	0.00

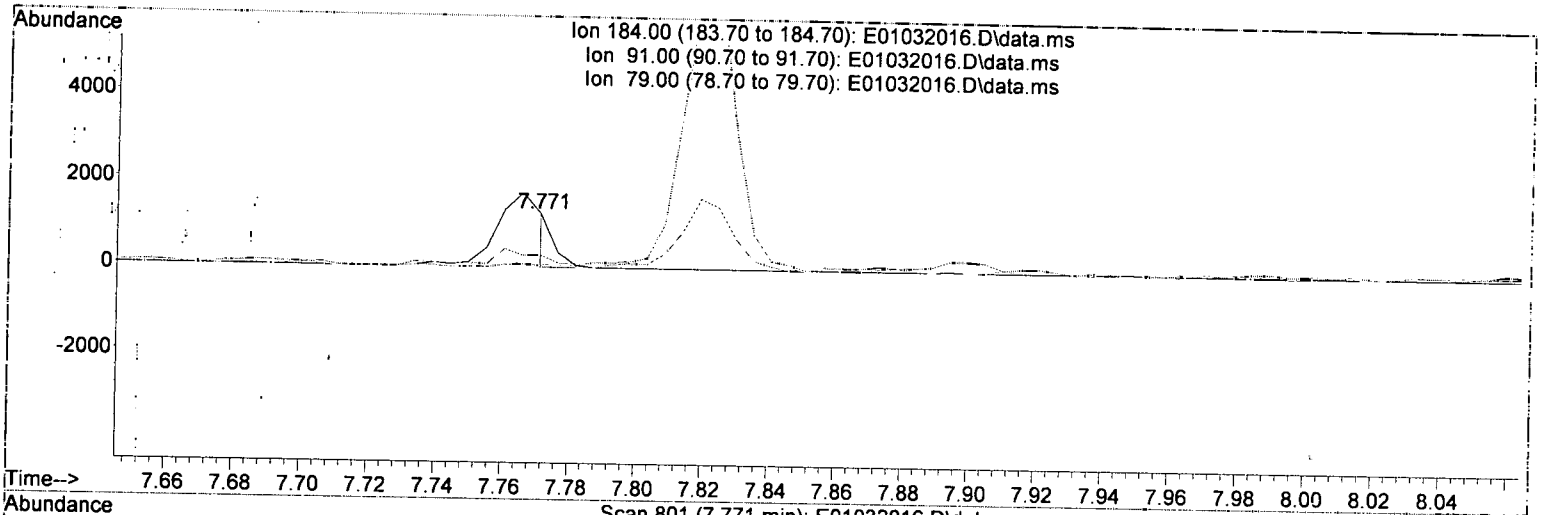


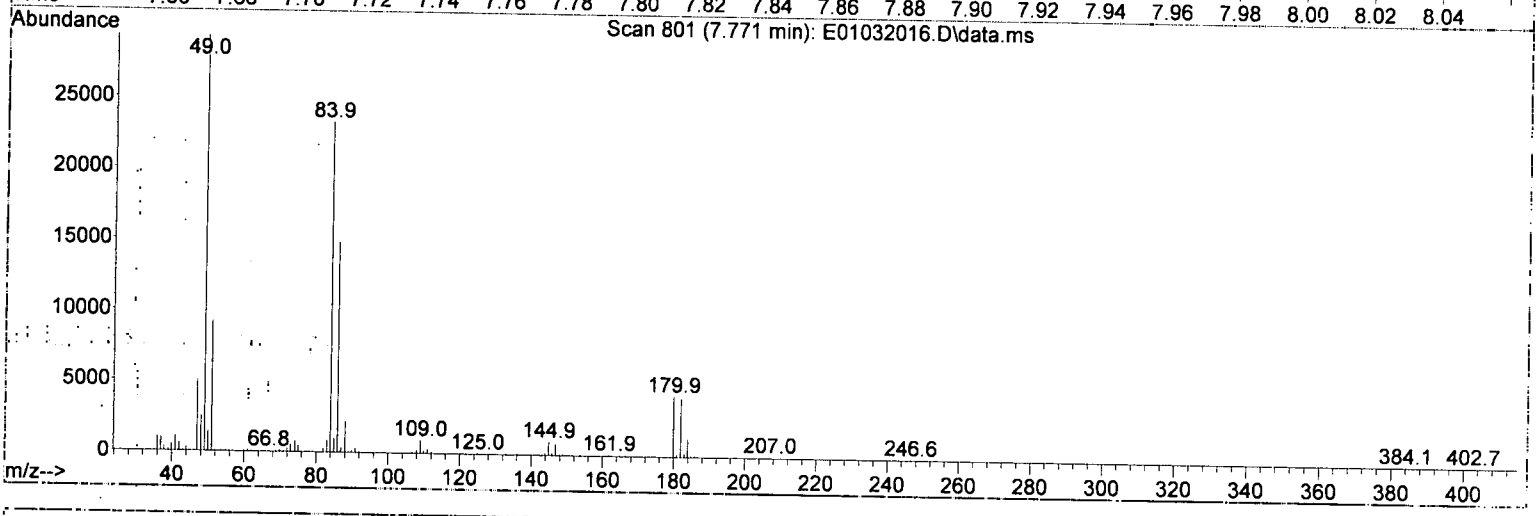
R = 3.13e-002 A*A + 7.99e-002 A - 8.69e-003
Coef of Det (r^2) = 0.985 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:04:10 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





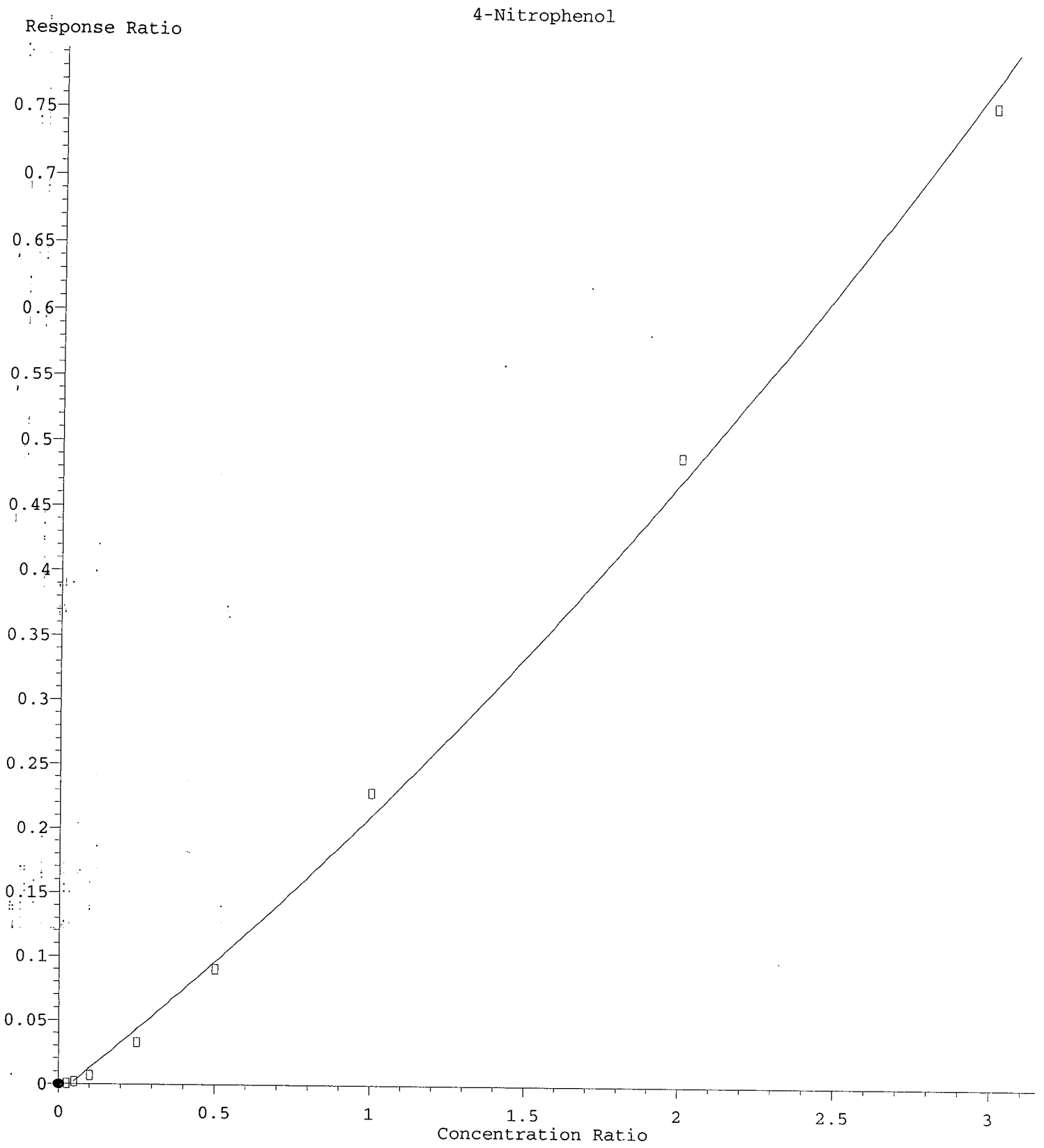
TIC: E01032016.D\data.ms

(52) 2,4-Dinitrophenol (T)

7.771min (-1.882) 212.45 ng/ml m

response 124

Ion	Exp%	Act%
184.00	100.00	100.00
91.00	40.80	22.46
79.00	29.20	3.78
0.00	0.00	0.00

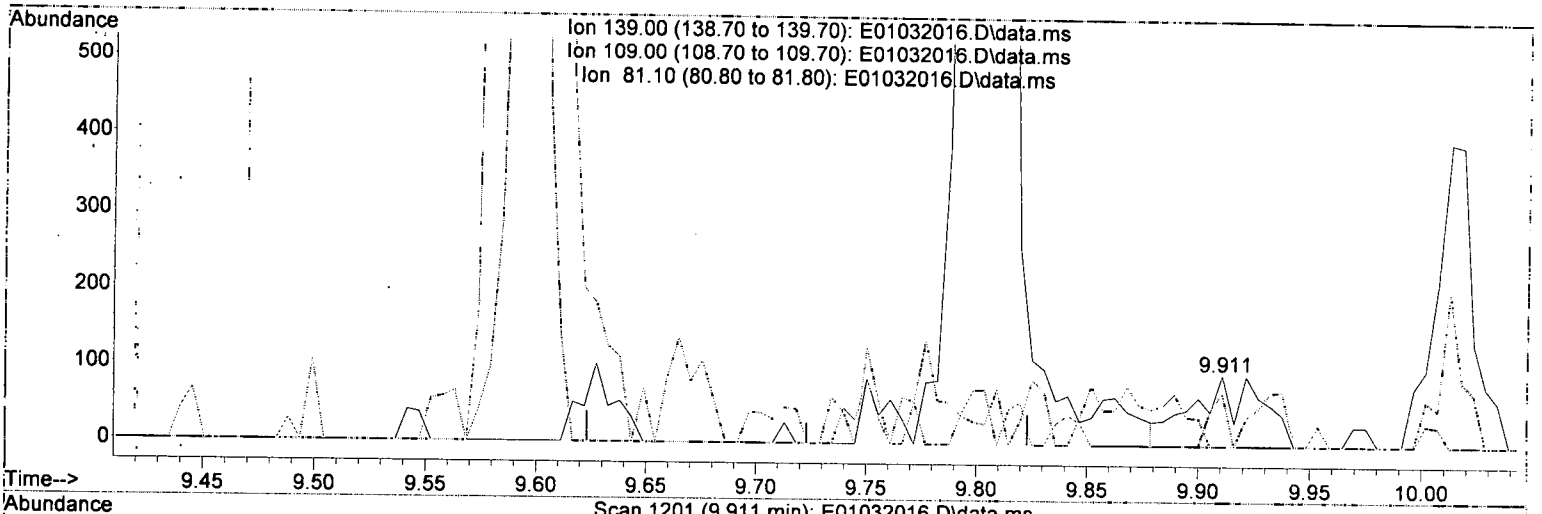


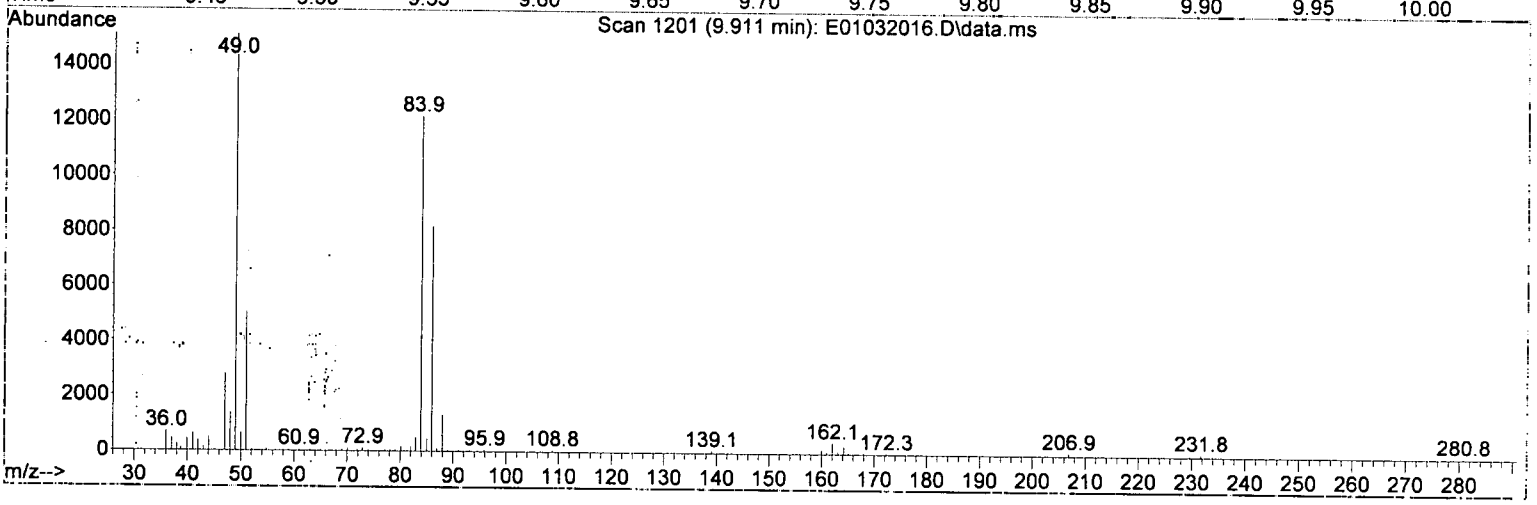
R = 2.14e-002 A*A + 1.96e-001 A - 7.11e-003
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:09:51 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





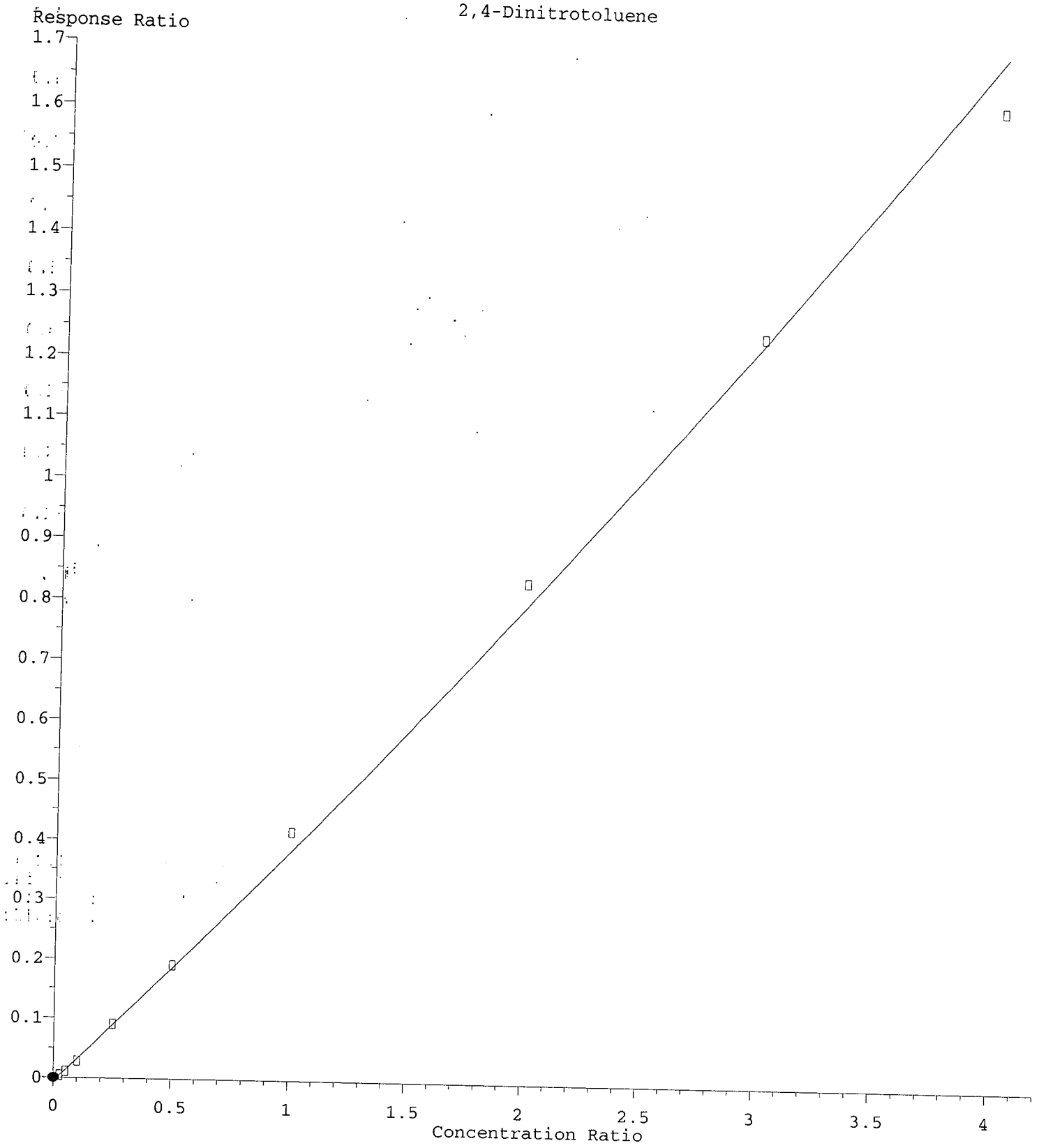
TIC: E01032016.D\data.ms

(53) 4-Nitrophenol (T)

9.911min (+ 0.188) 74.65 ng/ml m ✓

response 191

Ion	Exp%	Act%
139.00	100.00	100.00
109.00	51.30	75.00
81.10	24.30	0.00
0.00	0.00	0.00

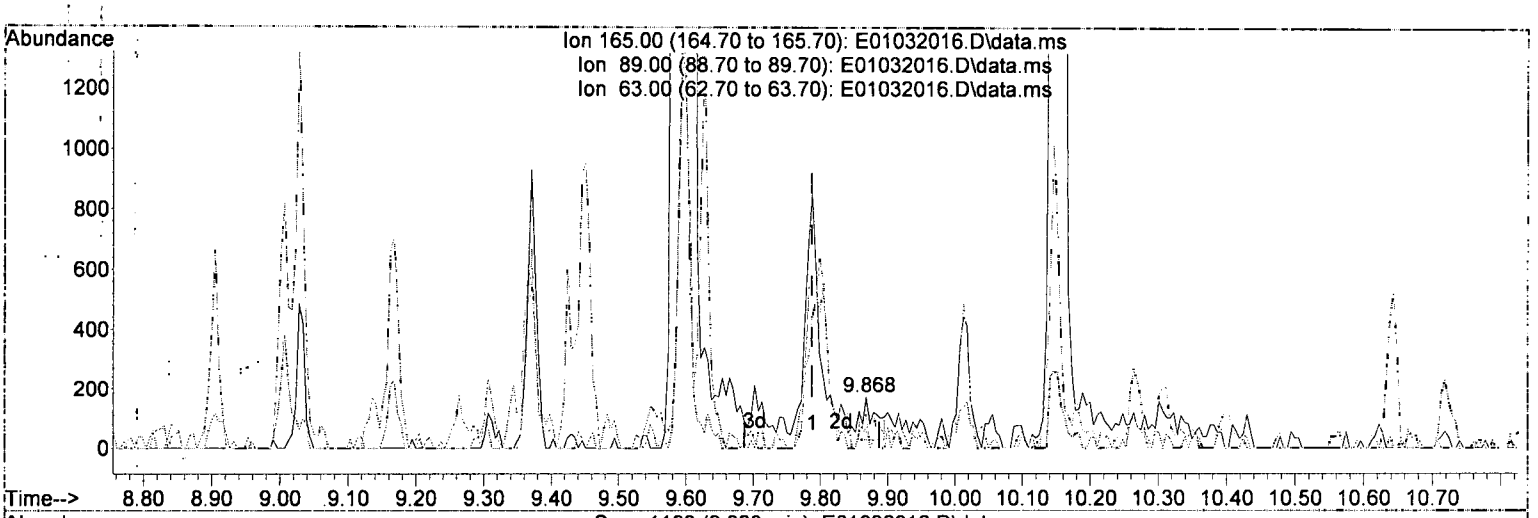


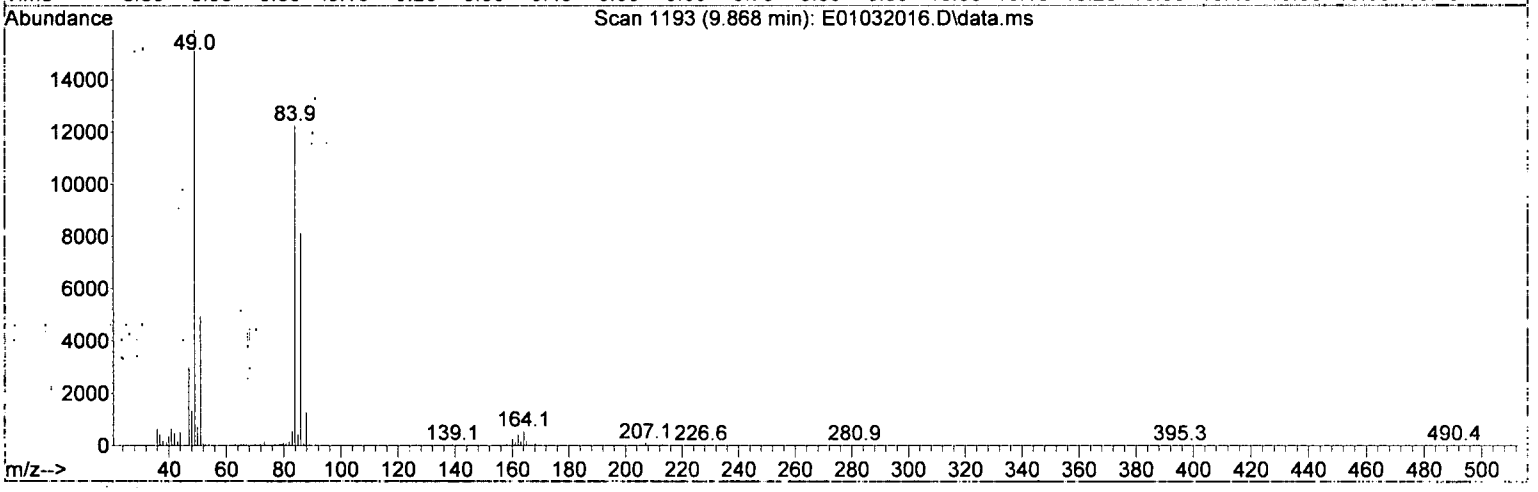
R = 1.22e-002 A*A + 3.78e-001 A - 6.44e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_0E0320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:09:51 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





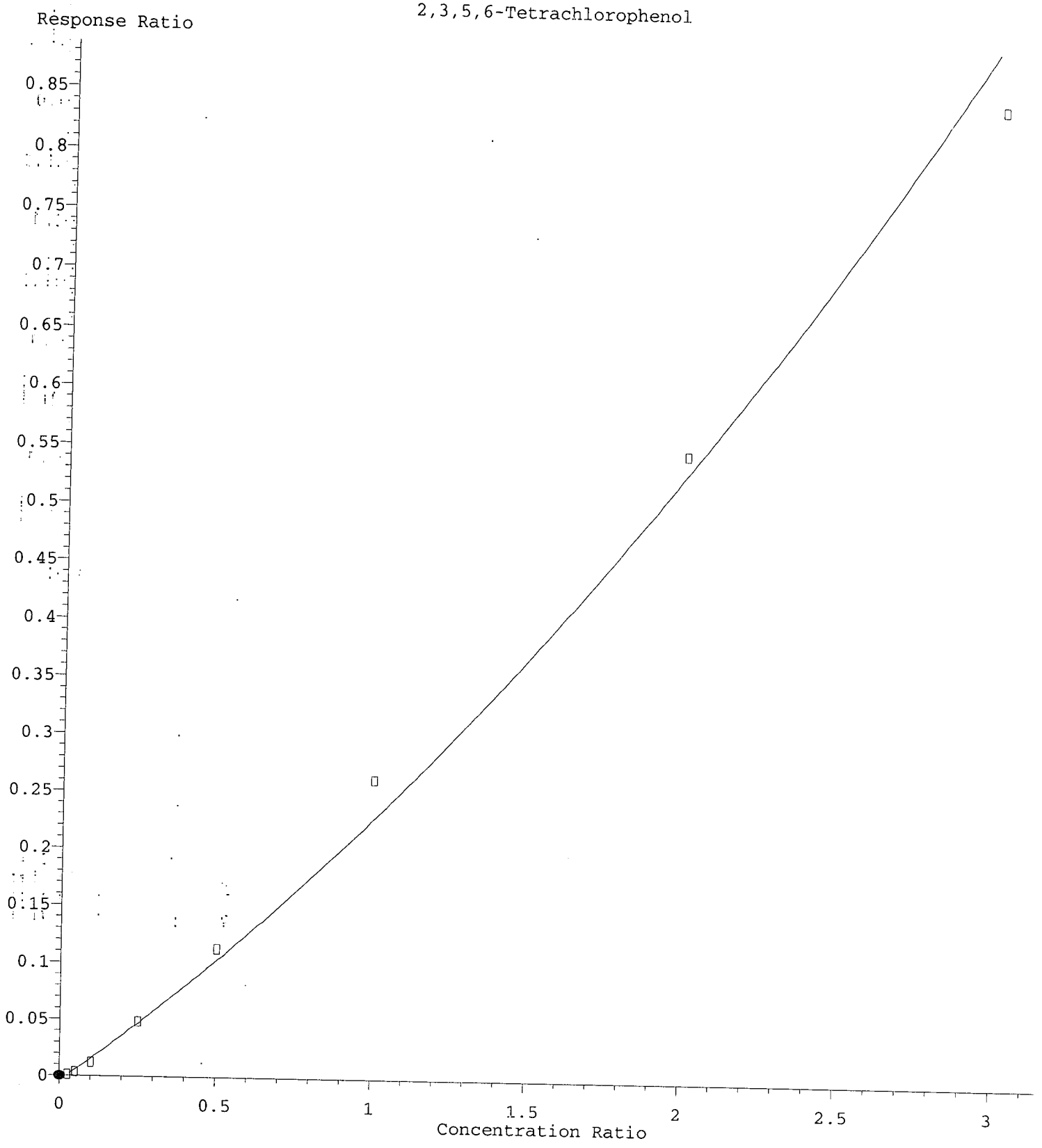
TIC: E01032016.D\data.ms

(54) 2,4-Dinitrotoluene (T)

9.868min (+ 0.081) 35.18 ng/ml m

response 182

Ion	Exp%	Act%
165.00	100.00	100.00
89.00	60.50	47.67
63.00	33.10	30.23
0.00	0.00	0.00

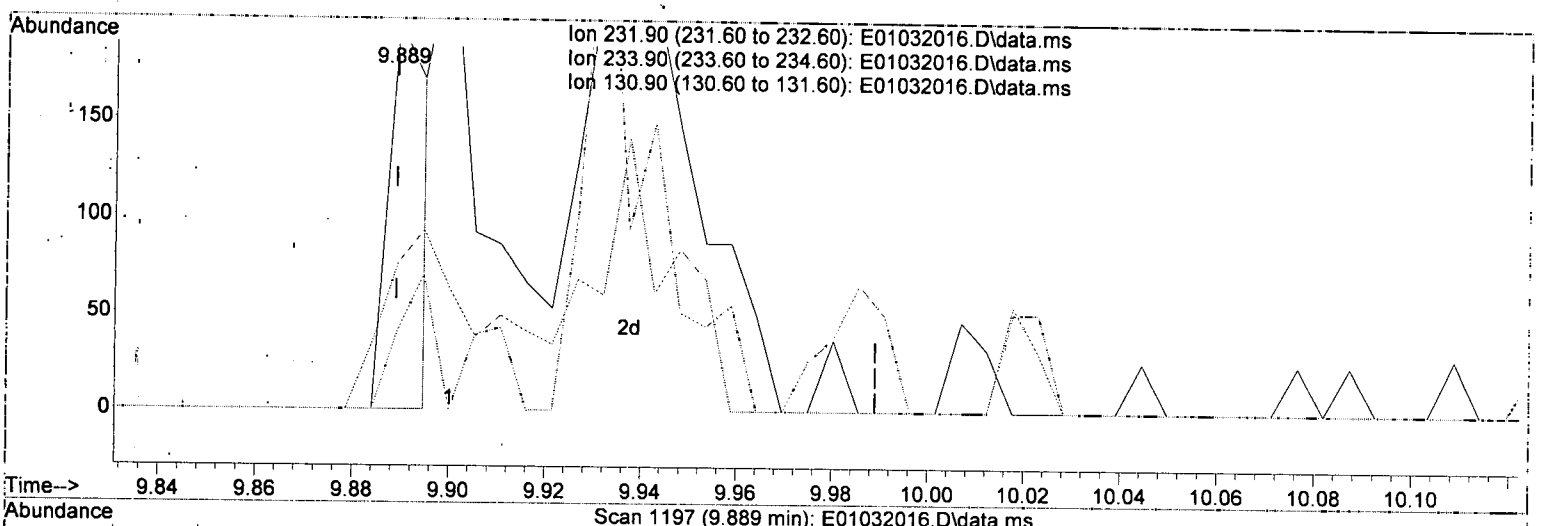


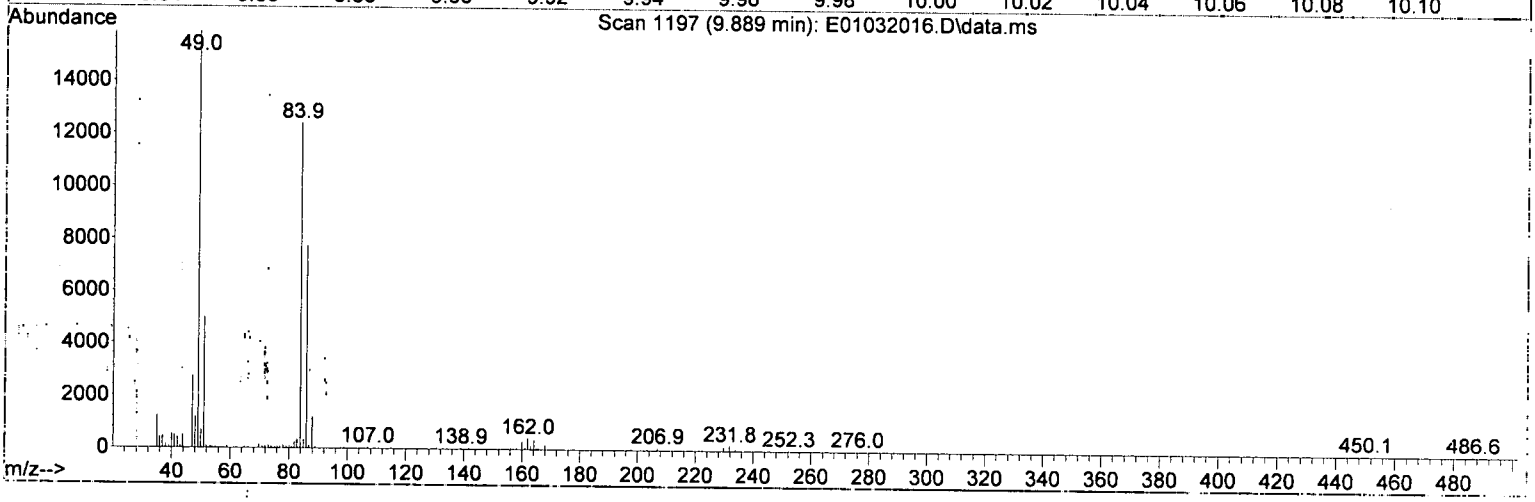
R = 3.49e-002 A*A + 1.97e-001 A - 4.55e-003
Coef of Det (r^2) = 0.983 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:15:22 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





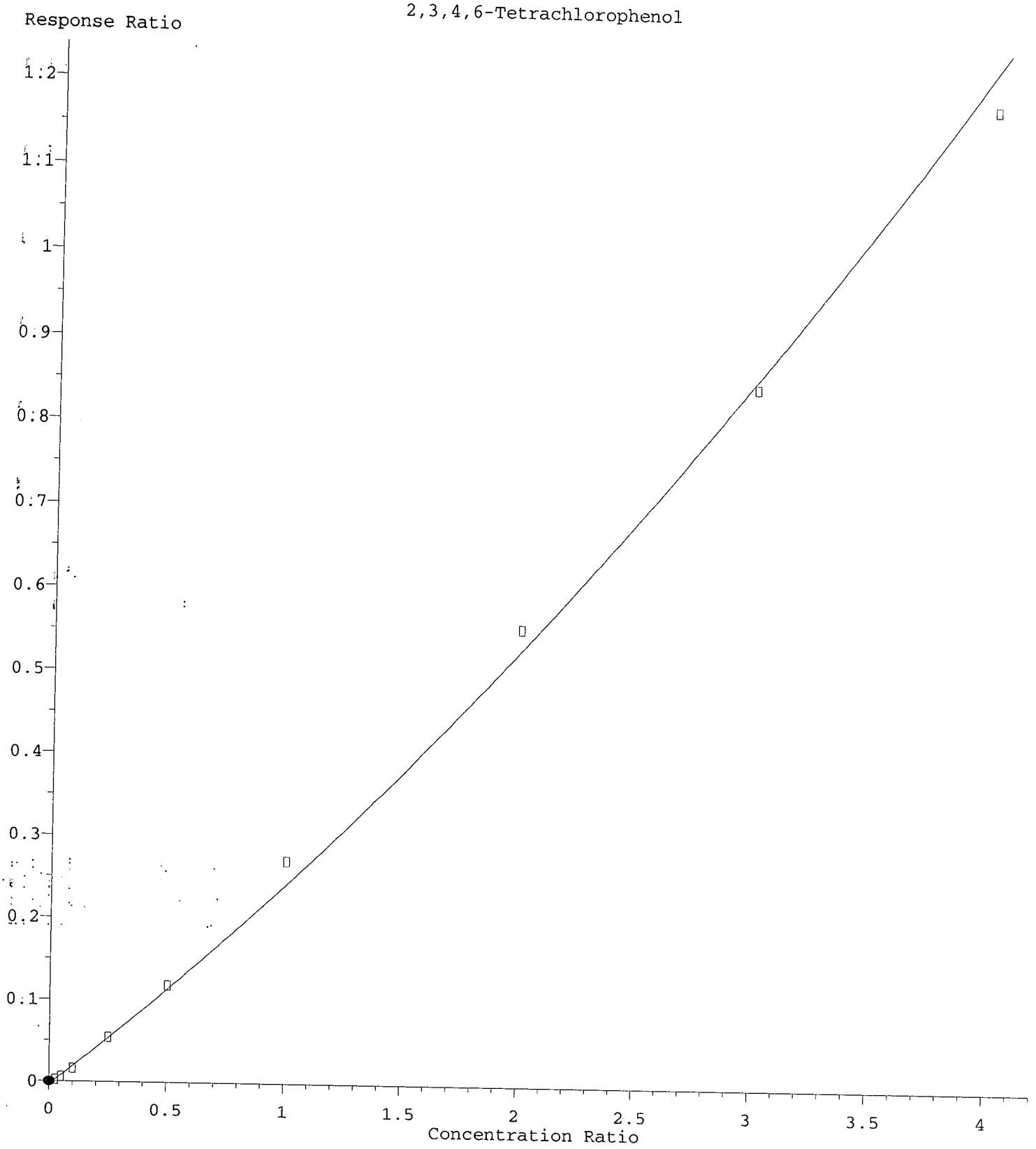
TIC: E01032016.D\data.ms

(56) 2,3,5,6-Tetrachlorophenol (T)

9.889min (+ 0.000) 47.36 ng/ml m

response 120

Ion	Exp%	Act%
231.90	100.00	100.00
233.90	47.90	37.62
130.90	38.50	20.30
0.00	0.00	0.00

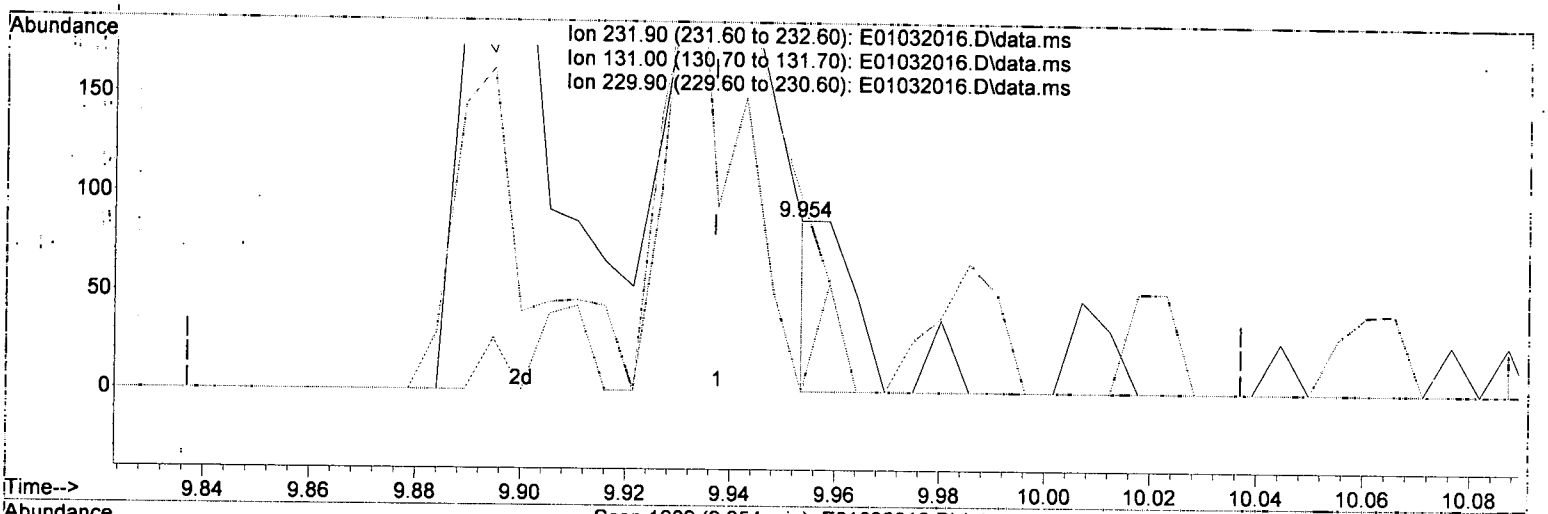


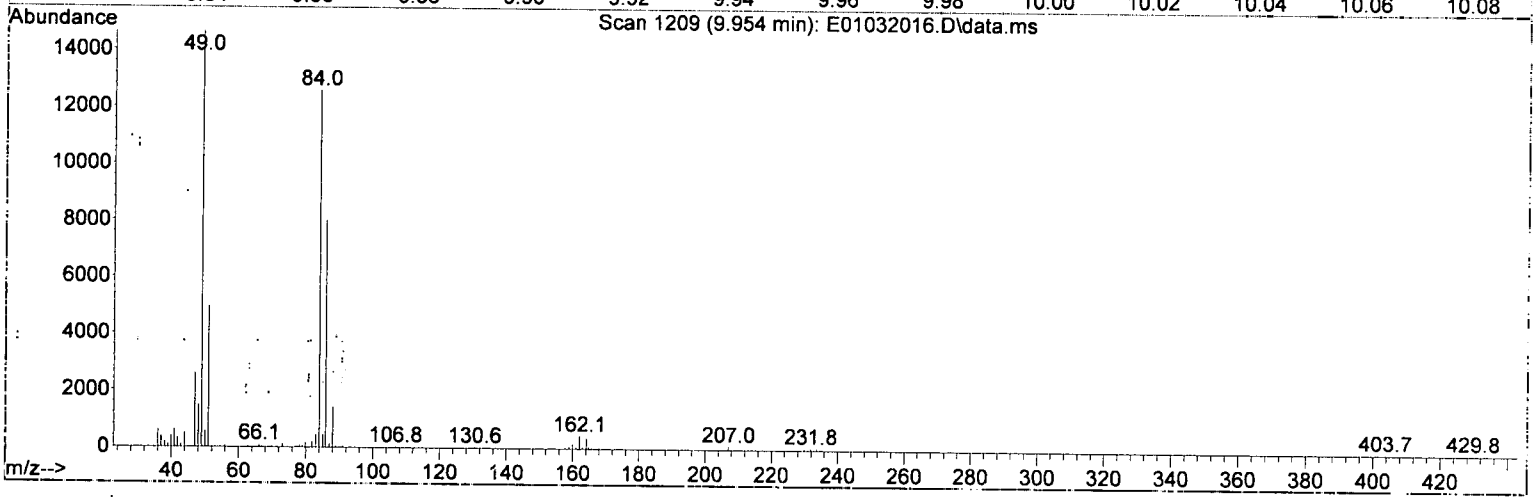
R = 2.05e-002 A*A + 2.25e-001 A - 3.95e-003
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\MS07\DATA\SVB_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:15:22 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





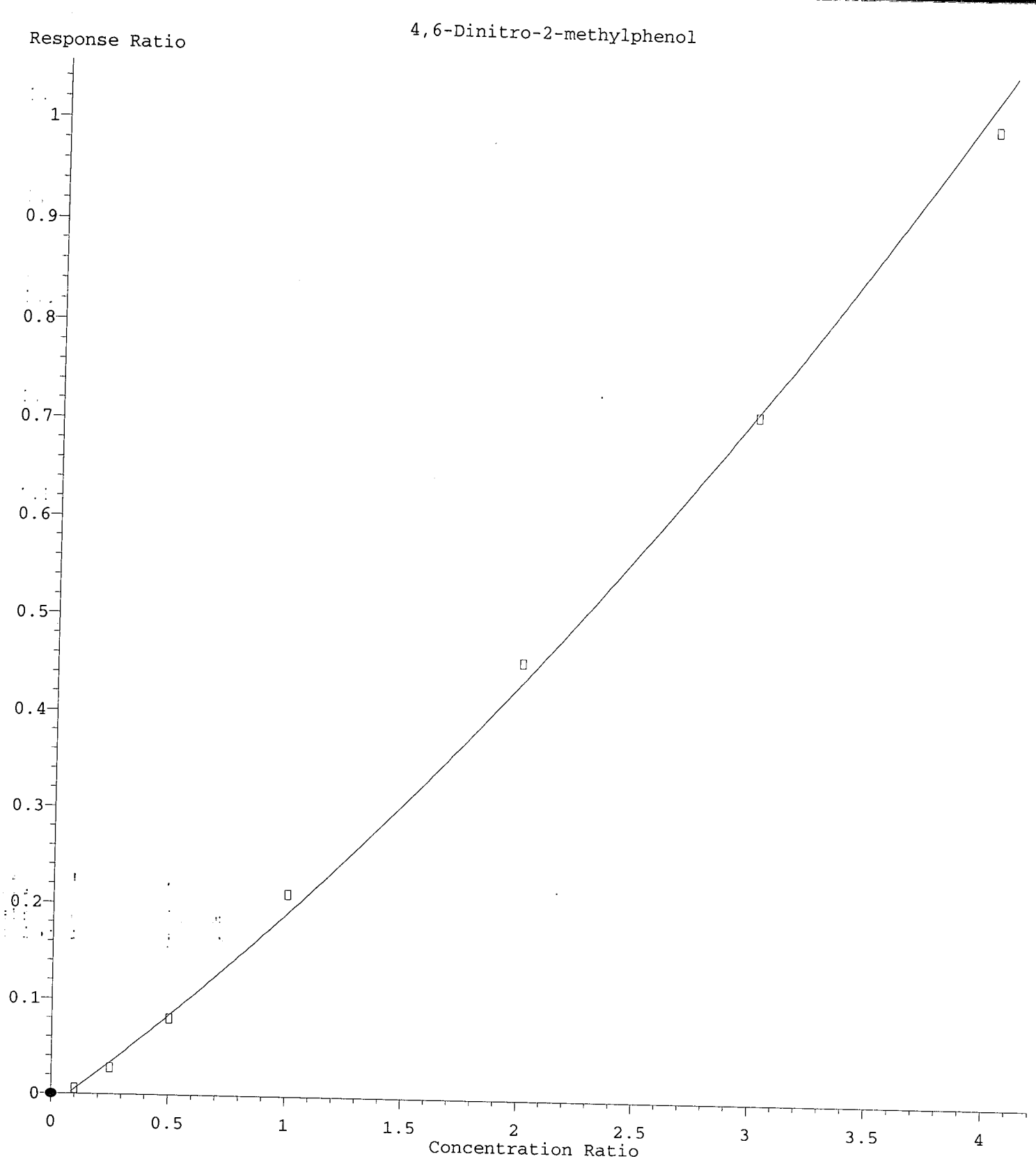
TIC: E01032016.D\data.ms

(57) 2,3,4,6-Tetrachlorophenol (T)

9.954min (+ 0.017) 36.14 ng/ml m

response 105

Ion	Exp%	Act%
231.90	100.00	100.00
131.00	44.50	0.00#
229.90	78.30	59.77
0.00	0.00	0.00

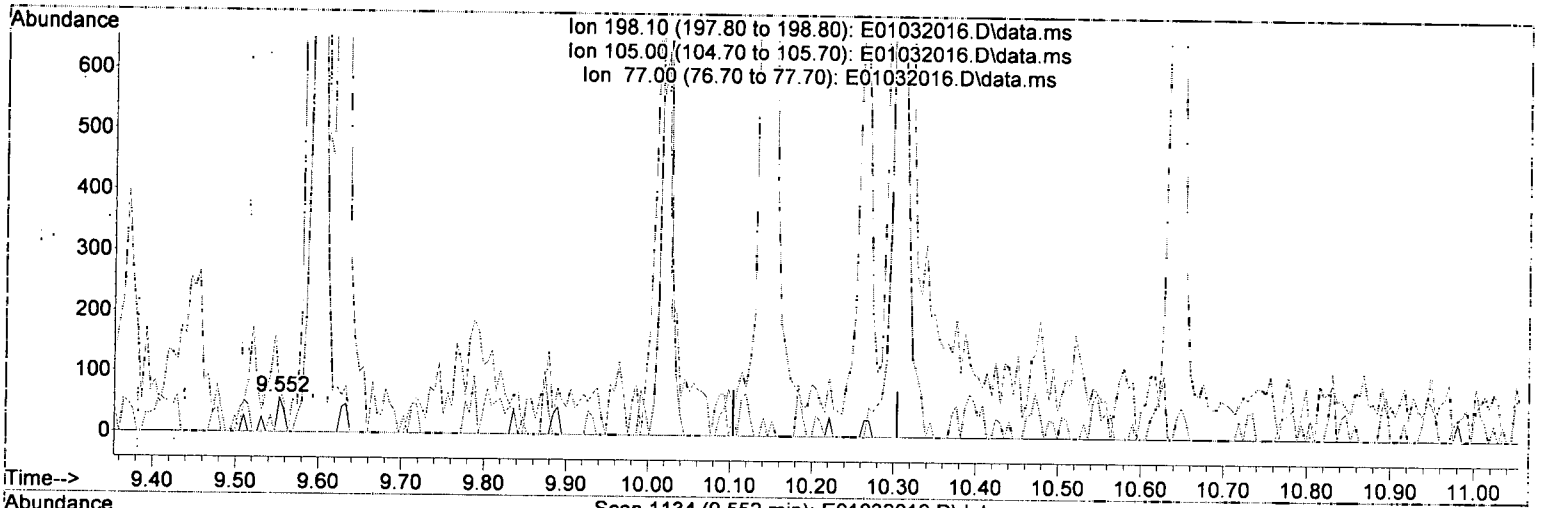


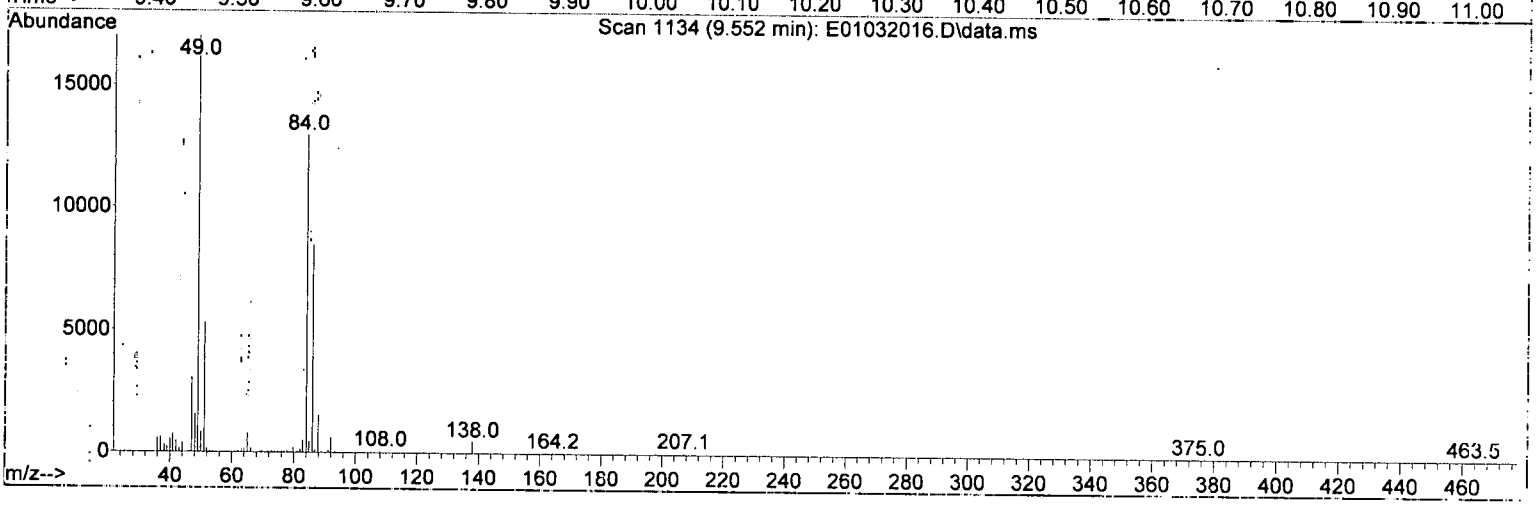
R = 1.89e-002 A*A + 1.86e-001 A - 1.41e-002
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:15:22 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





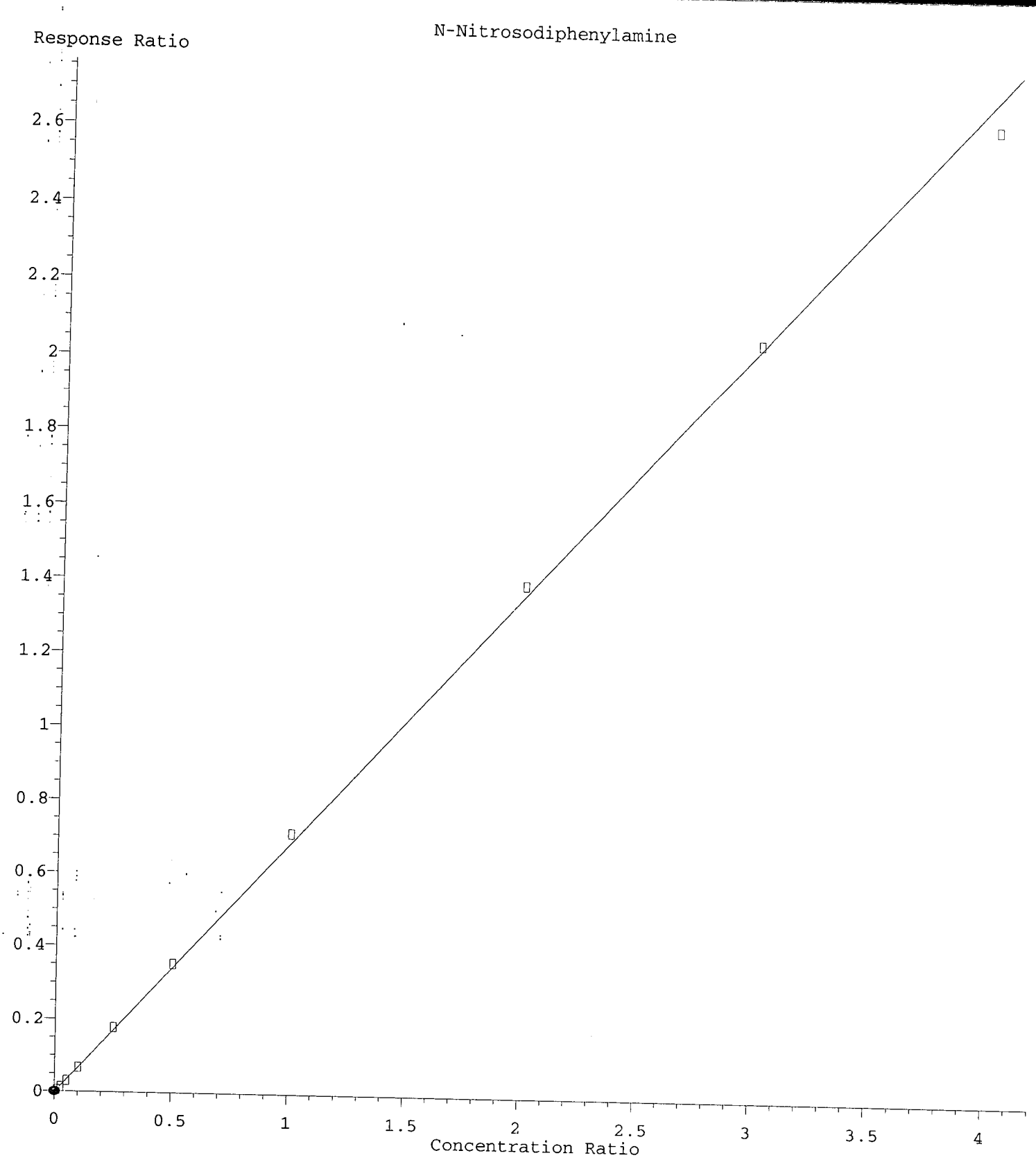
TIC: E01032016.D\data.ms

(63) 4,6-Dinitro-2-methylphenol (T)

9.552min (-0.652) 152.36 ng/ml m

response 142

Ion	Exp%	Act%
198.10	100.00	100.00
105.00	42.30	78.95#
77.00	20.30	122.81#
0.00	0.00	0.00

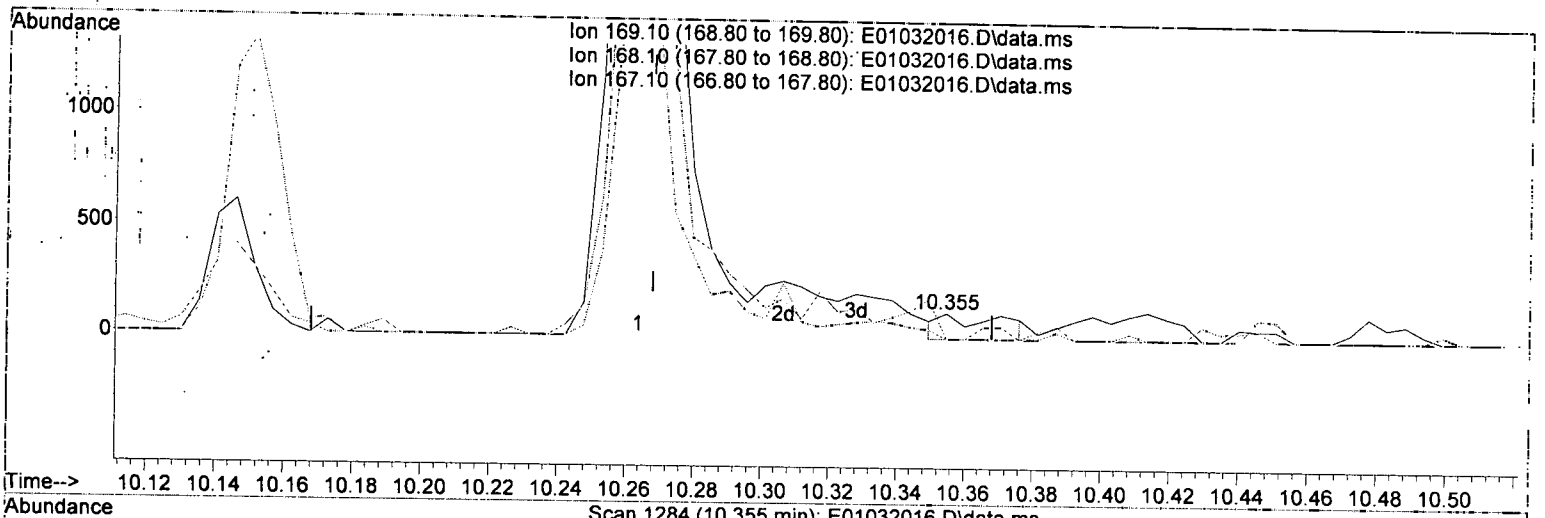


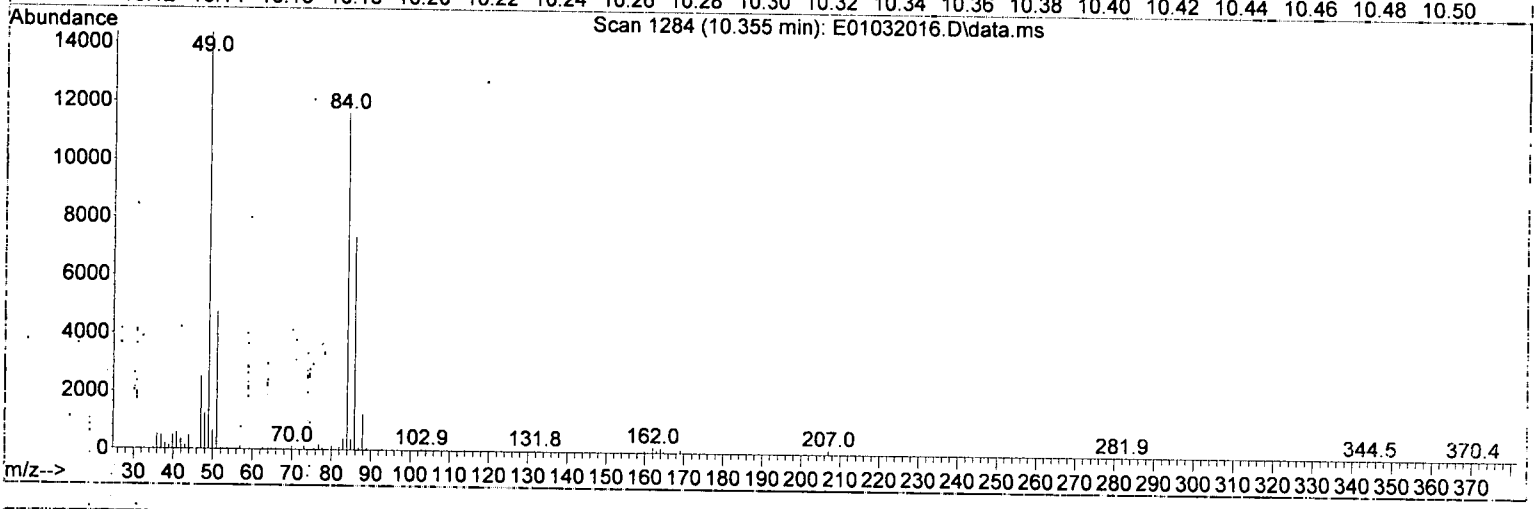
R = -3.90e-003 A*A + 6.94e-001 A - 3.04e-003
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_QE0320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:15:22 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





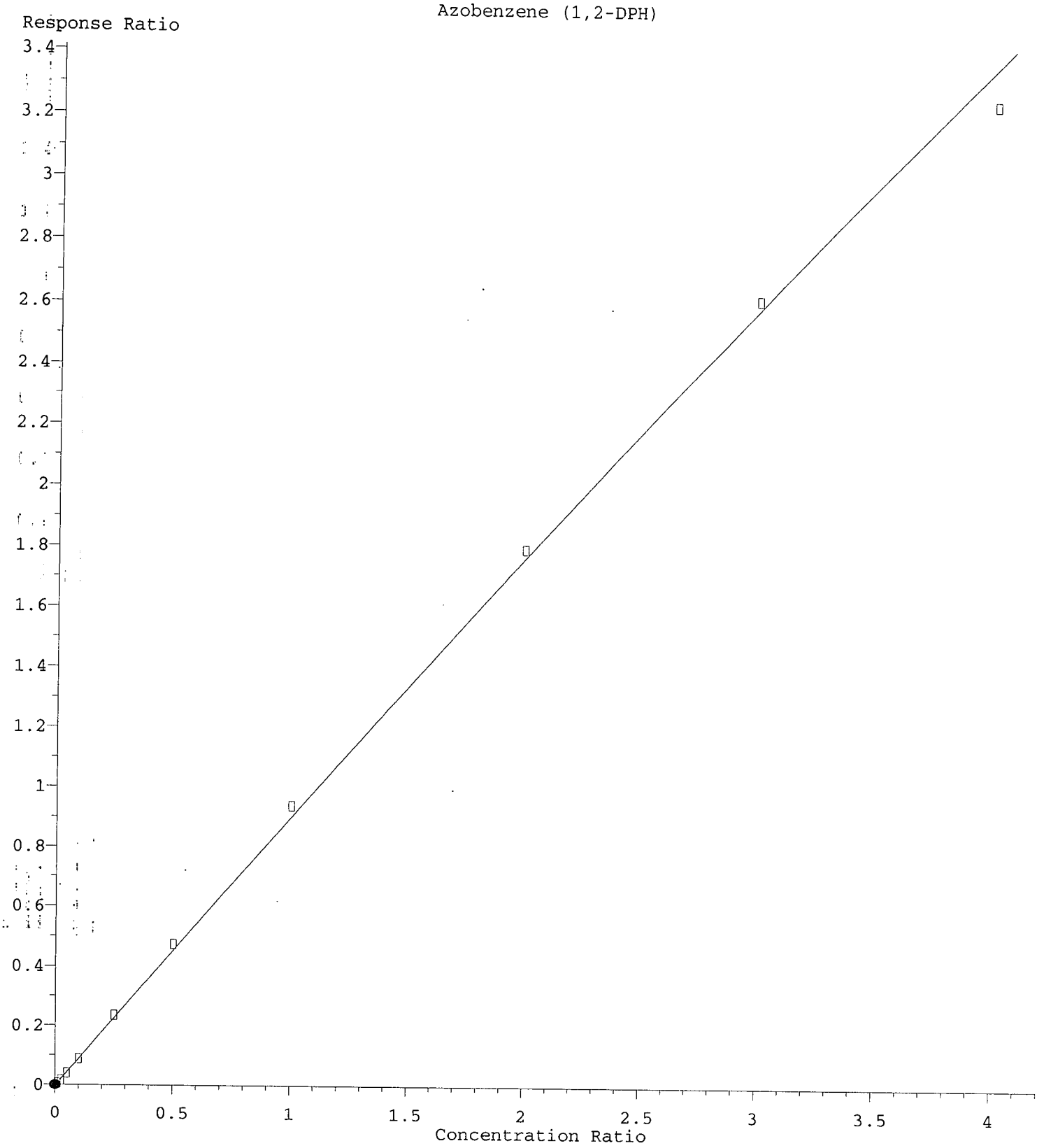
TIC: E01032016.D\data.ms

(65) N-Nitrosodiphenylamine (T)

10.355min (+ 0.087) 9.08 ng/ml m

response 146

Ion	Exp%	Act%
169.10	100.00	100.00
168.10	64.30	0.00#
167.10	34.30	0.00#
0.00	0.00	0.00

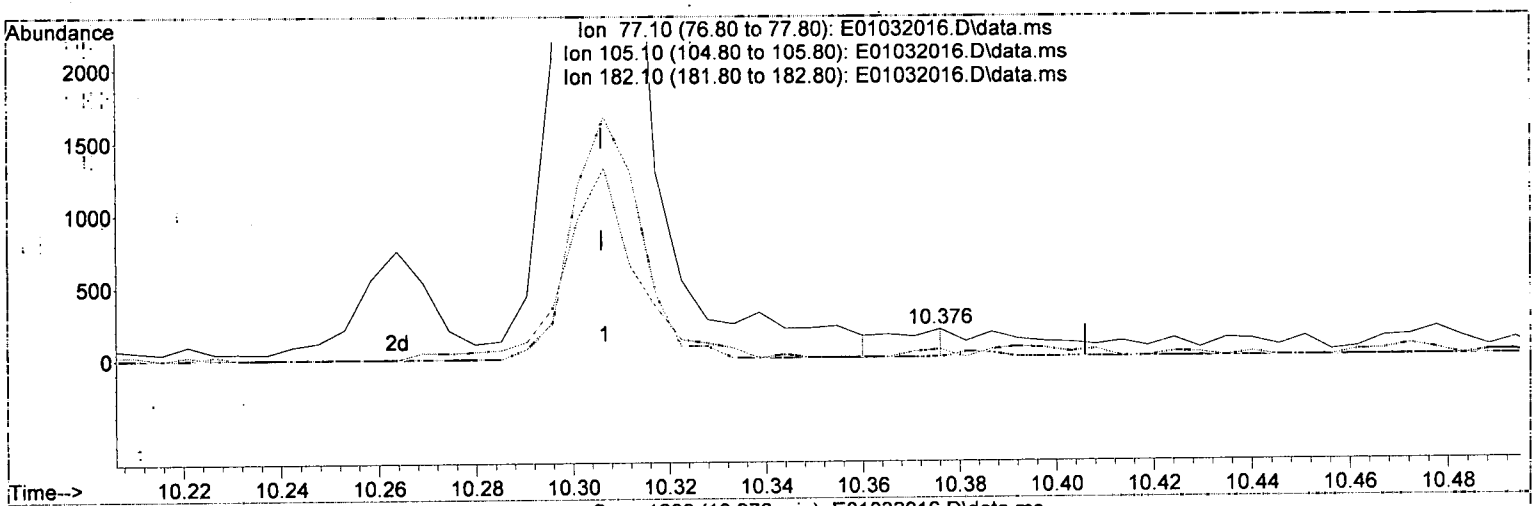


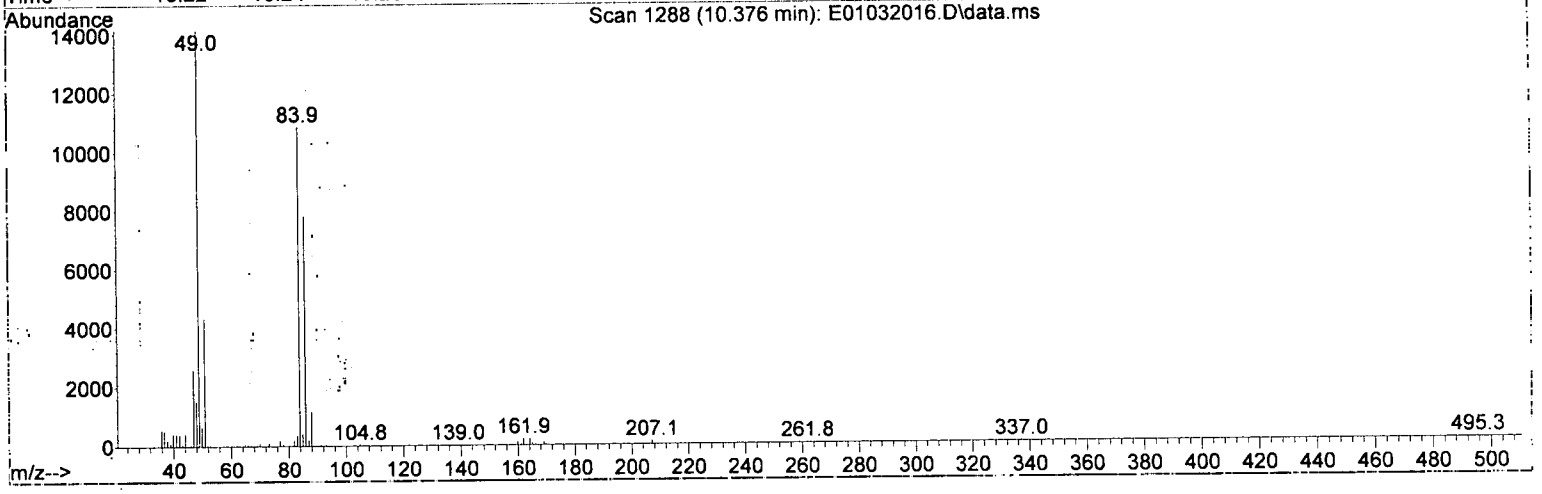
R = -2.03e-002 A*A + 9.25e-001 A - 4.52e-003
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:15:22 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





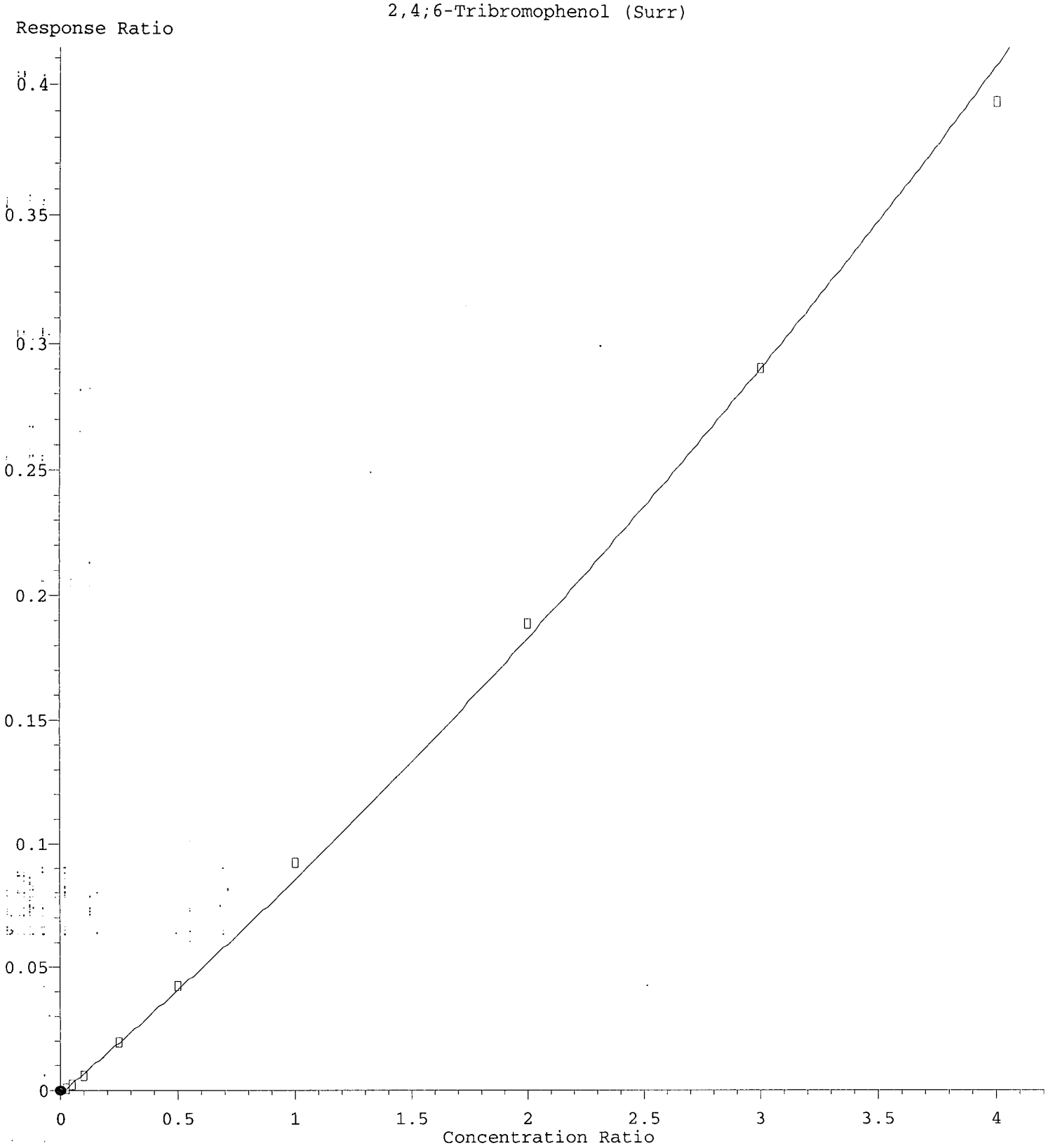
TIC: E01032016.D\data.ms

(66) Azobenzene (1,2-DPH) (T)

10.376min (+ 0.070) 10.03 ng/ml m

response 158

Ion	Exp%	Act%
77.10	100.00	100.00
105.10	20.20	27.60
182.10	31.40	0.00#
0.00	0.00	0.00

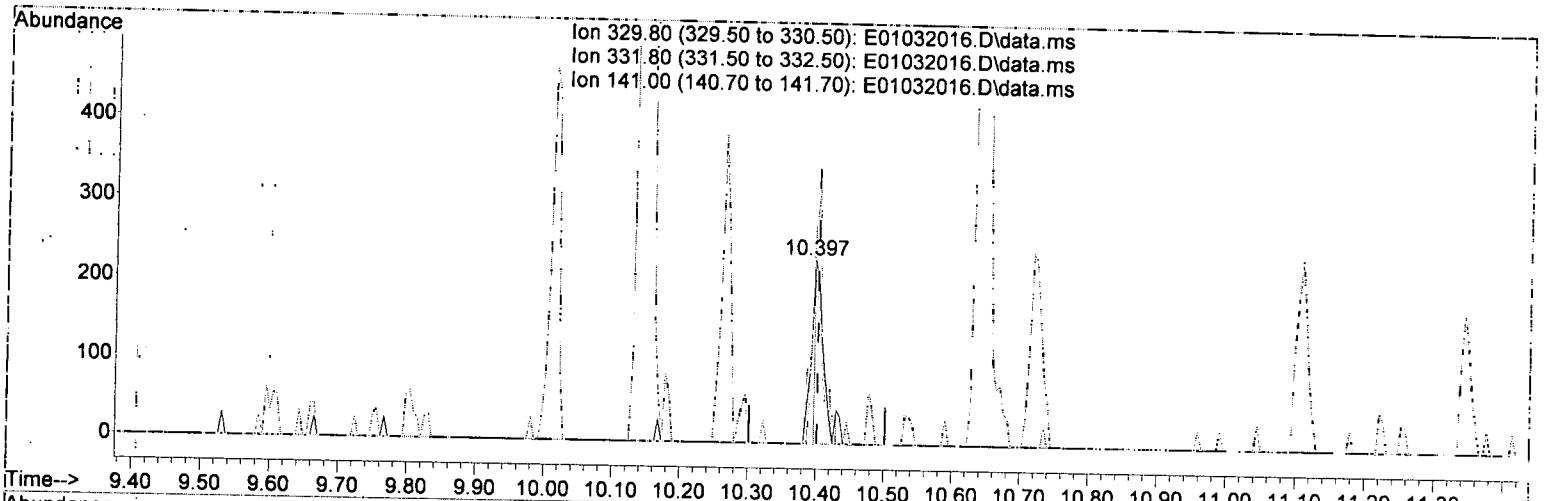


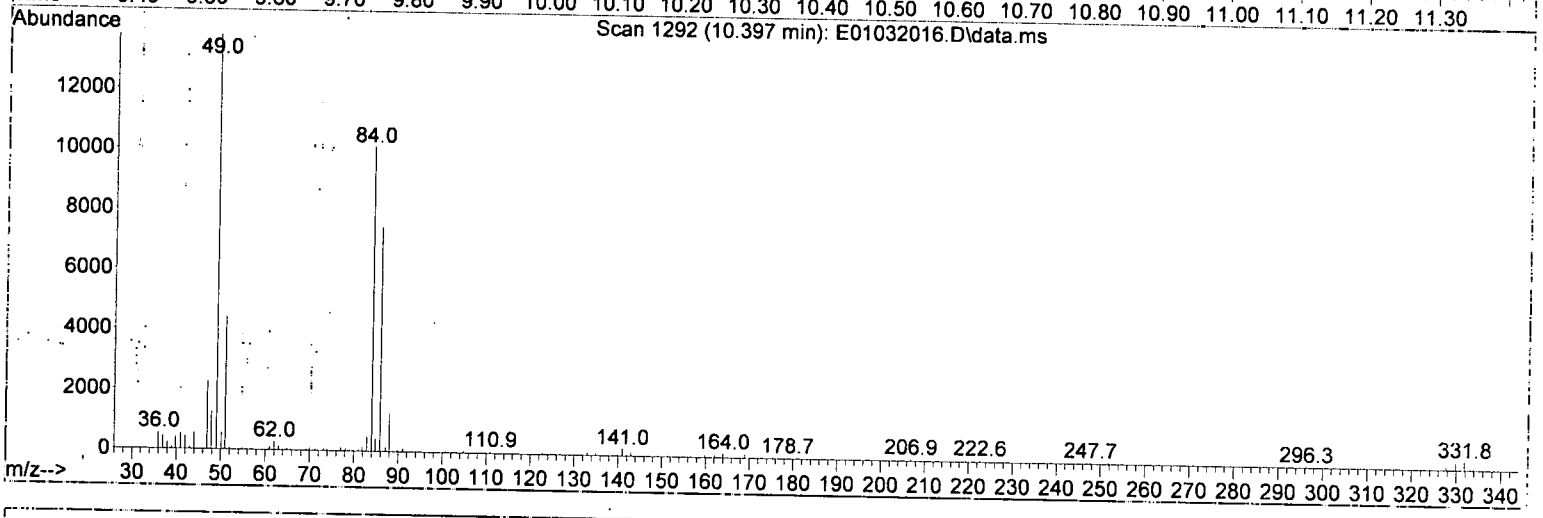
R = 5.30e-003 A*A + 8.14e-002 A - 1.46e-003
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010520.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:15:22 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





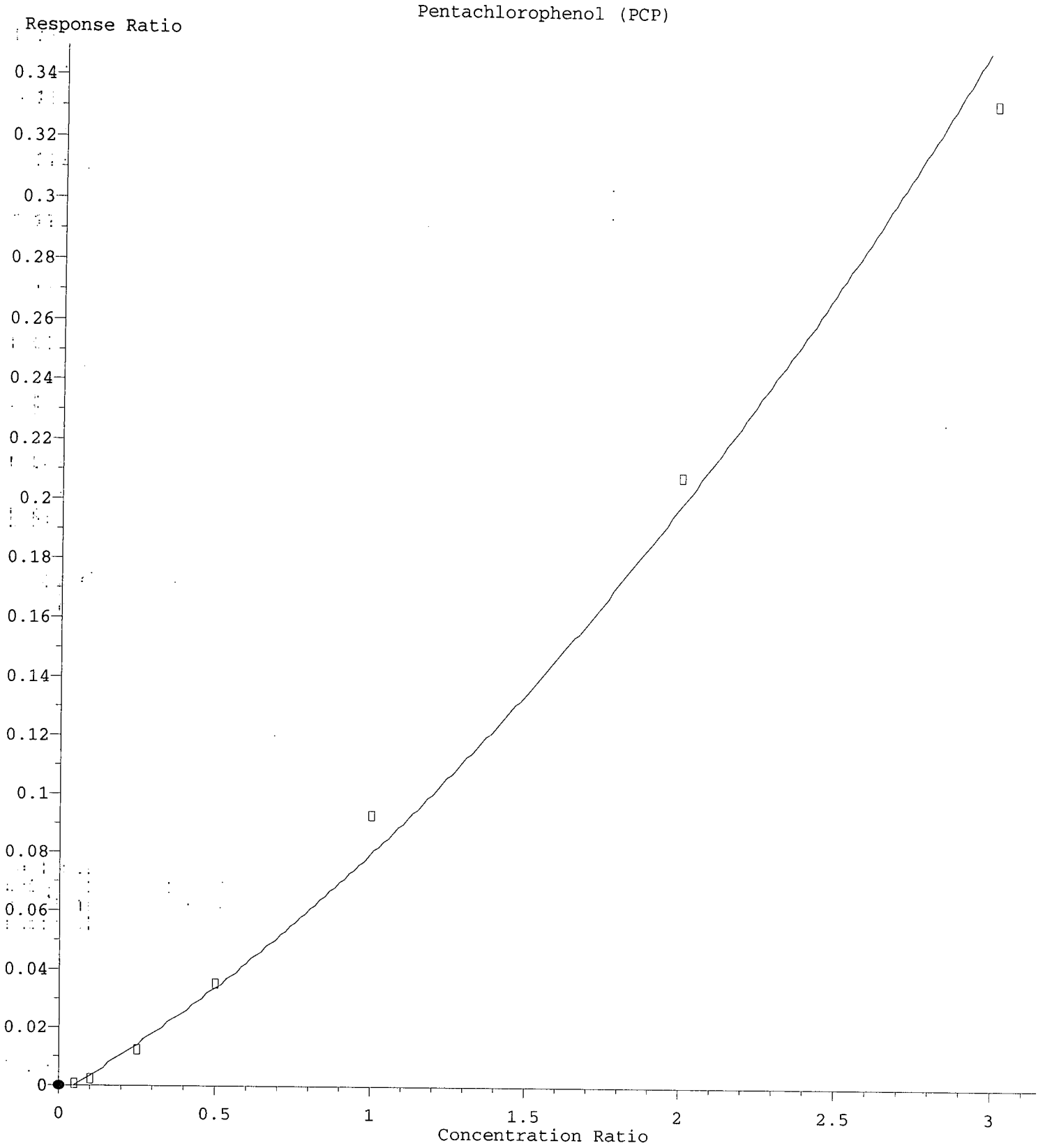
TIC: E01032016.D\data.ms

(67) 2,4,6-Tribromophenol (Surr) (S)

10.397min (-0.005) 38.61 ng/ml m

response 156

Ion	Exp%	Act%
329.80	100.00	100.00
331.80	95.80	114.22
141.00	34.90	92.67#
0.00	0.00	0.00

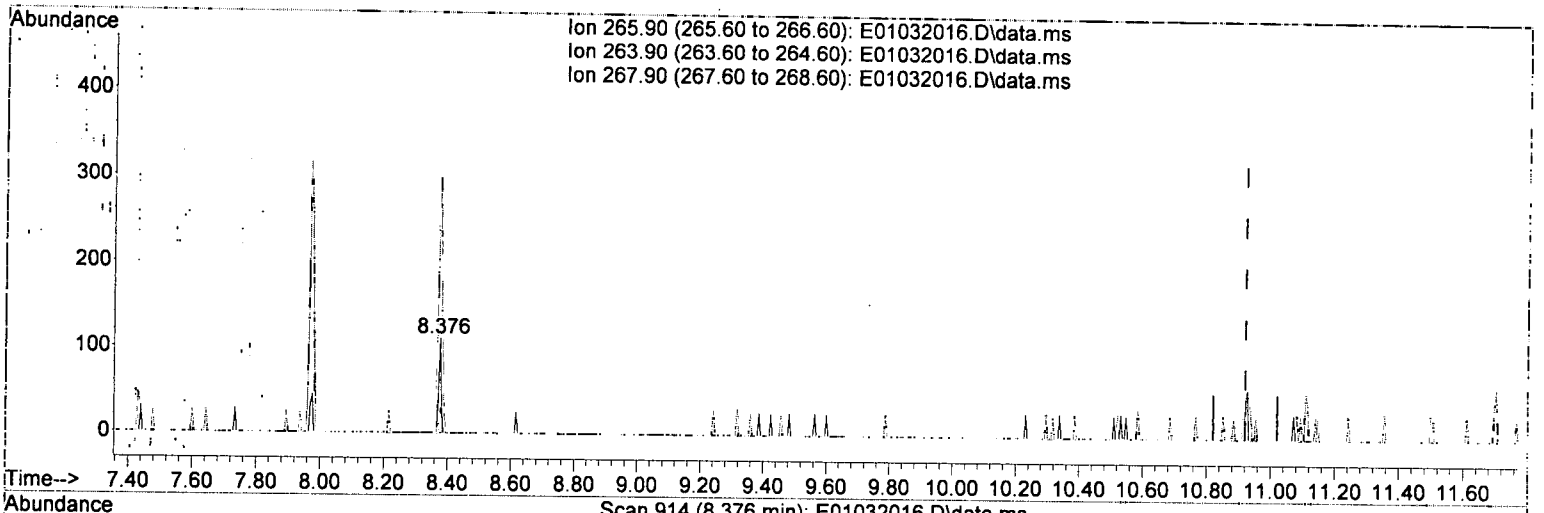


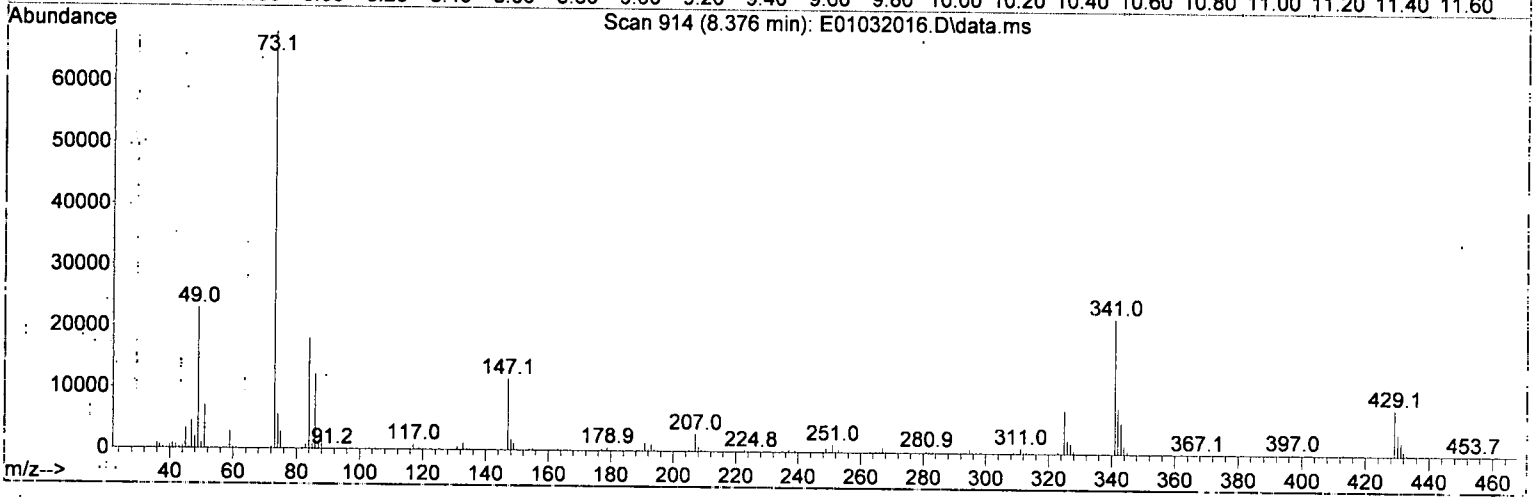
R = 1.81e-002 A*A + 6.48e-002 A - 3.07e-003
Coef of Det (r^2) = 0.986 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





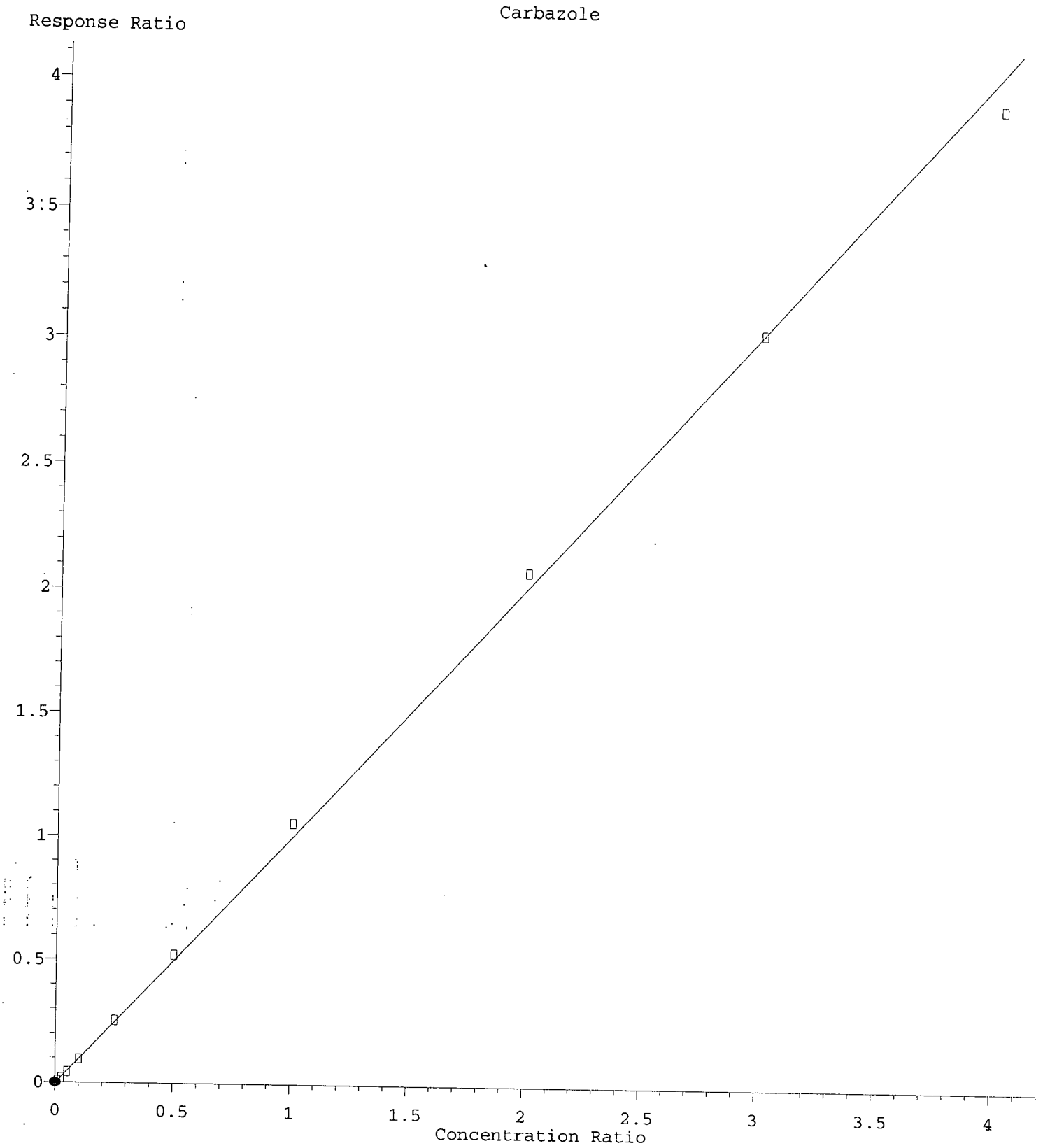
TIC: E01032016.D\data.ms

(70) Pentachlorophenol (PCP) (T)

8.376min (-2.545) 95.90 ng/ml m

response 104

Ion	Exp%	Act%
265.90	100.00	100.00
263.90	61.80	33.33
267.90	64.40	268.47#
0.00	0.00	0.00

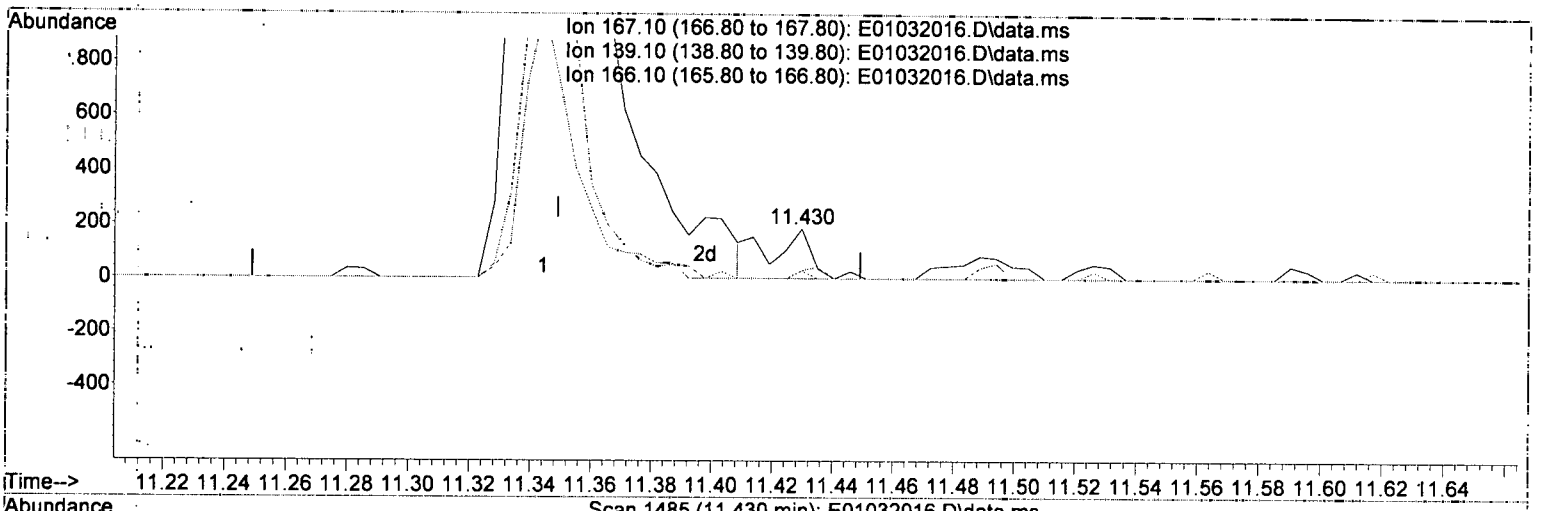


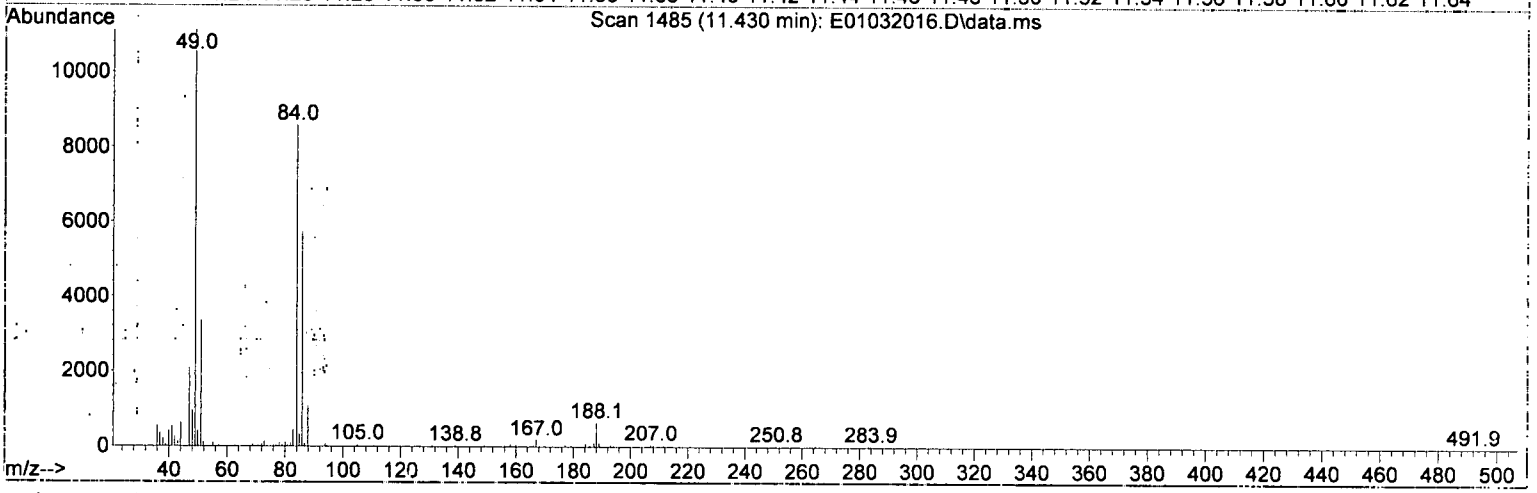
R = 3.63e-003 A*A + 1.00e+000 A - 4.24e-003
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\MS7\DATA\2020\Apr\OEA116 - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1074 of 1443
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





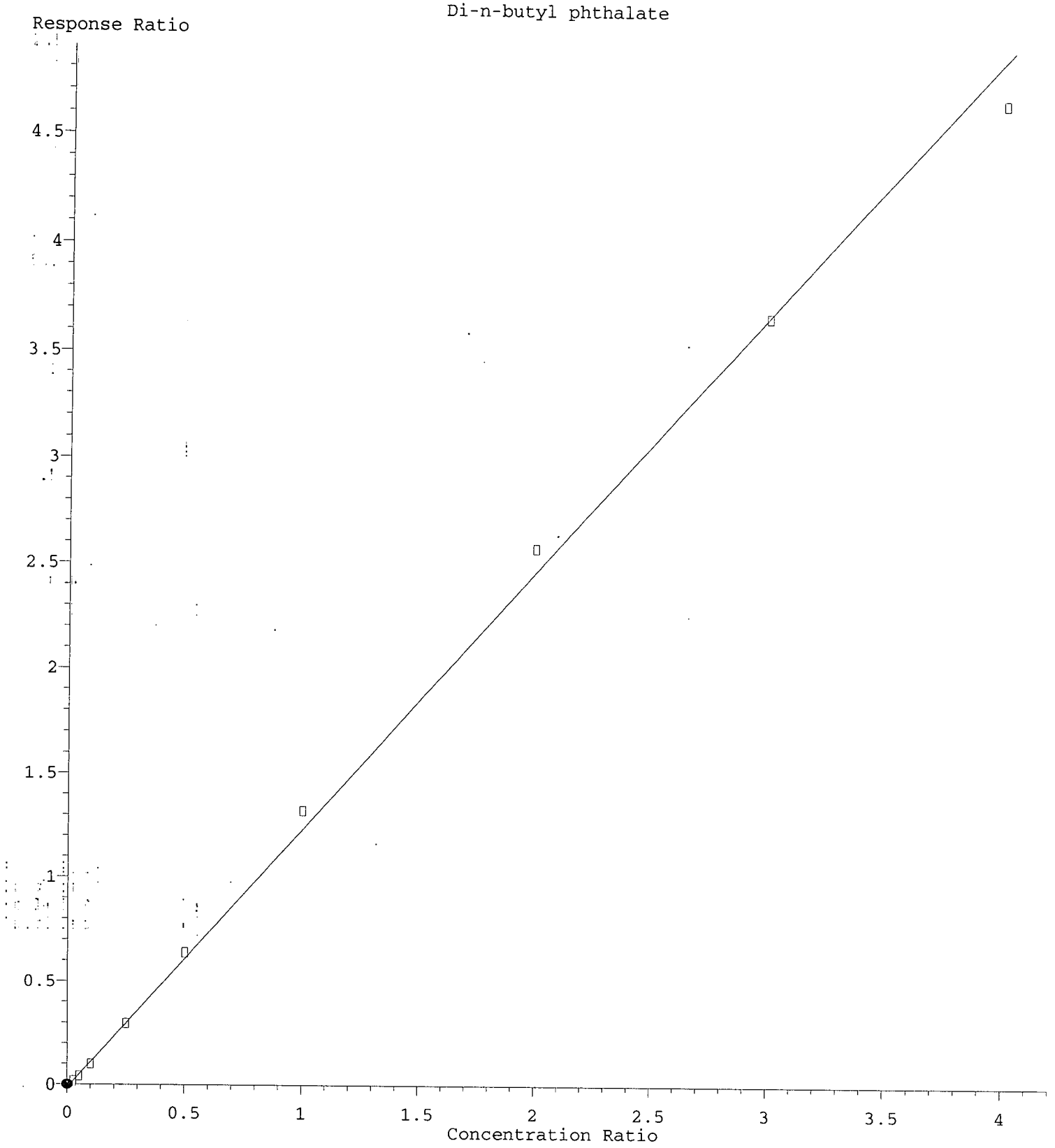
TIC: E01032016.D\data.ms

(73) Carbazole (T)

11.430min (+ 0.081) 8.71 ng/ml m

response 170

Ion	Exp%	Act%
167.10	100.00	100.00
139.10	11.80	15.14
166.10	20.90	15.68
0.00	0.00	0.00

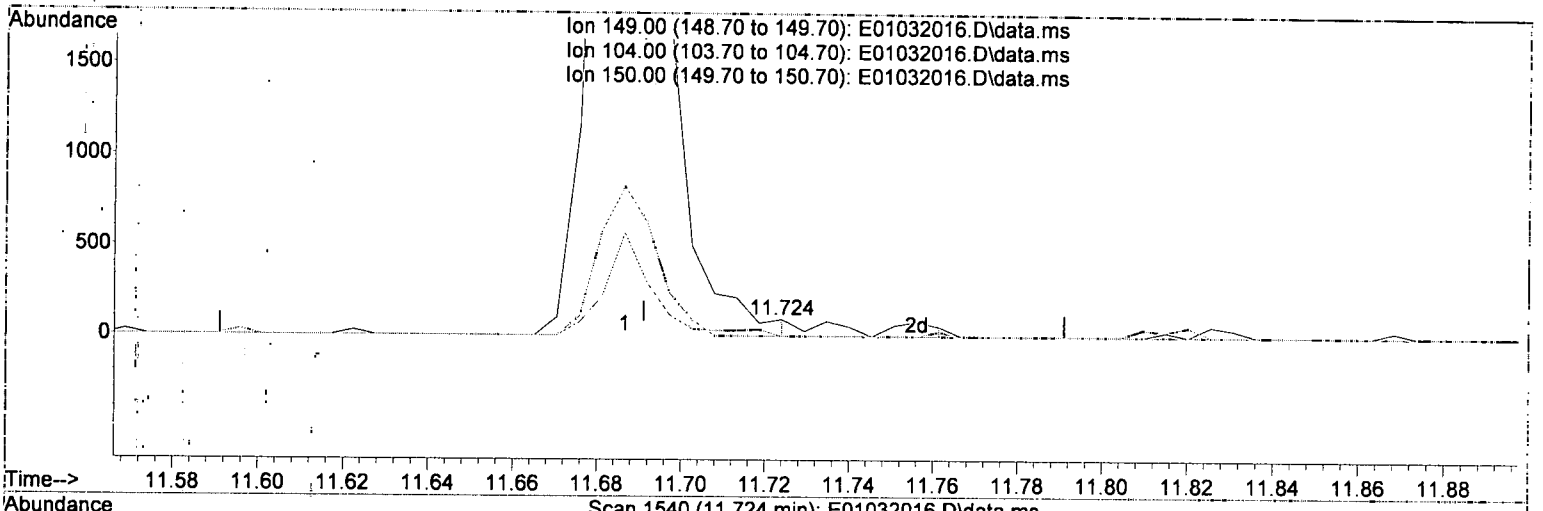


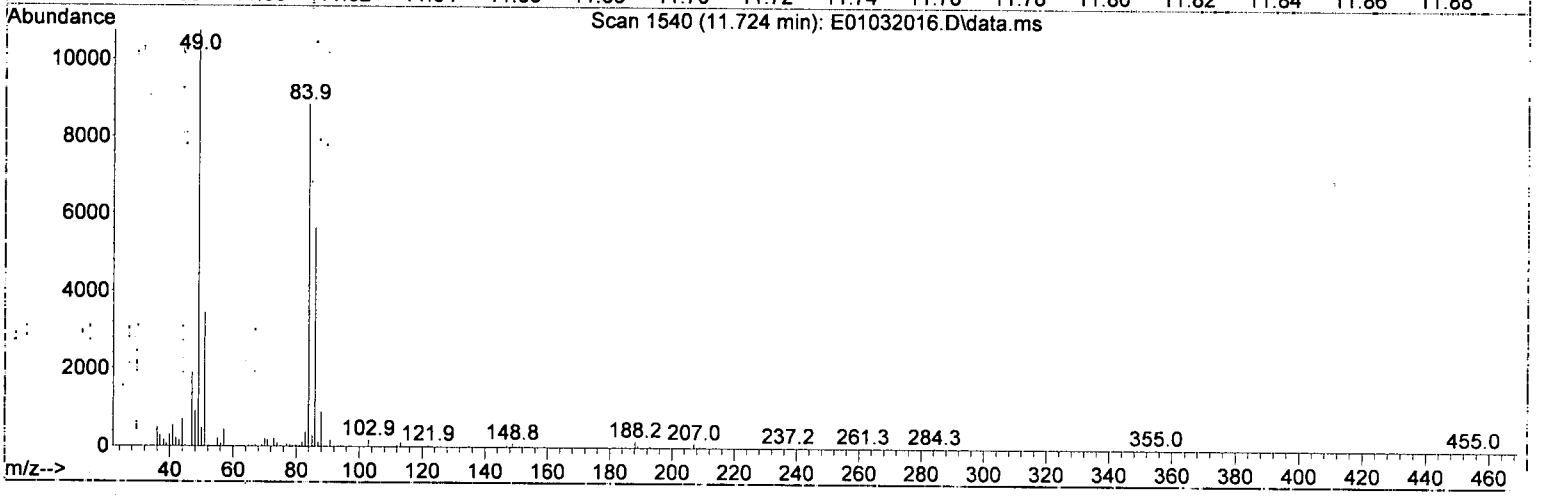
R = -9.12e-003 A*A + 1.26e+000 A - 1.70e-002
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





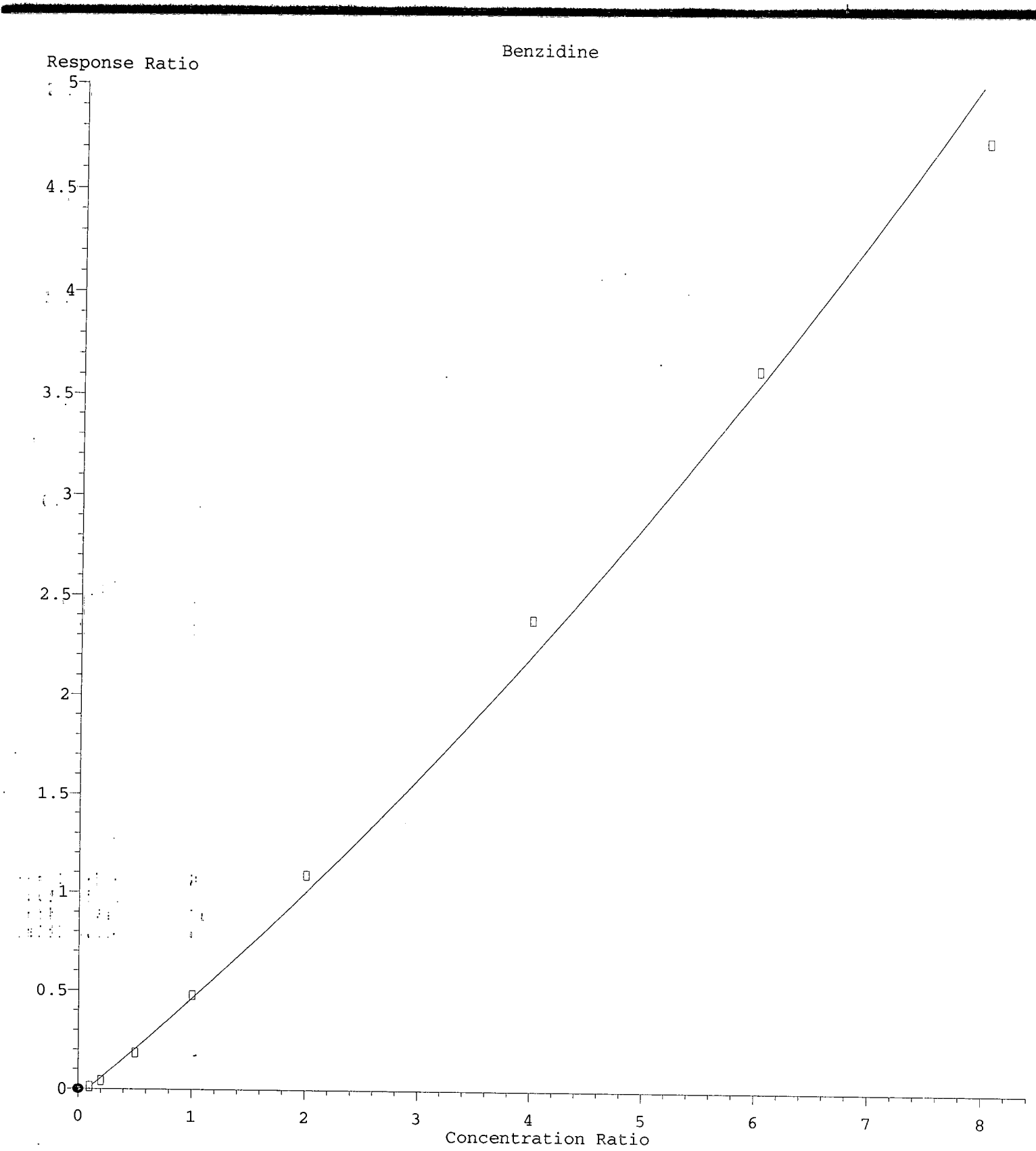
TIC: E01032016.D\data.ms

(74) Di-n-butyl phthalate (T)

11.724min (+ 0.033) 27.18 ng/ml m

response 113

Ion	Exp%	Act%
149.00	100.00	100.00
104.00	4.40	0.00
150.00	9.30	0.00
0.00	0.00	0.00

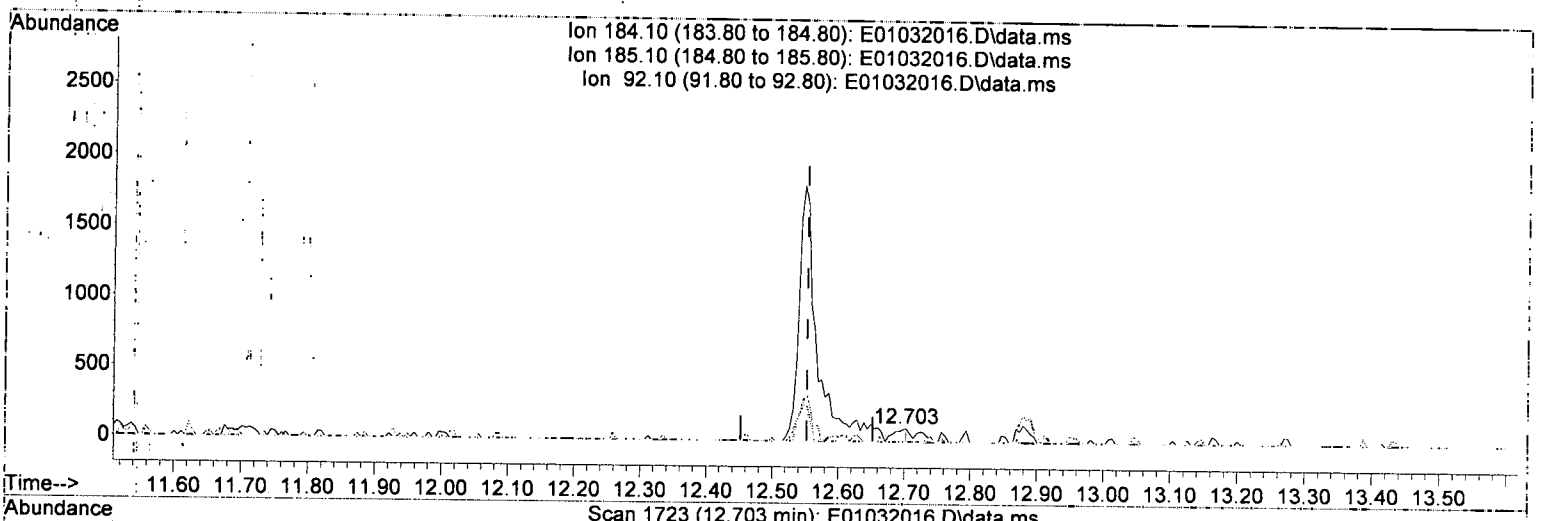


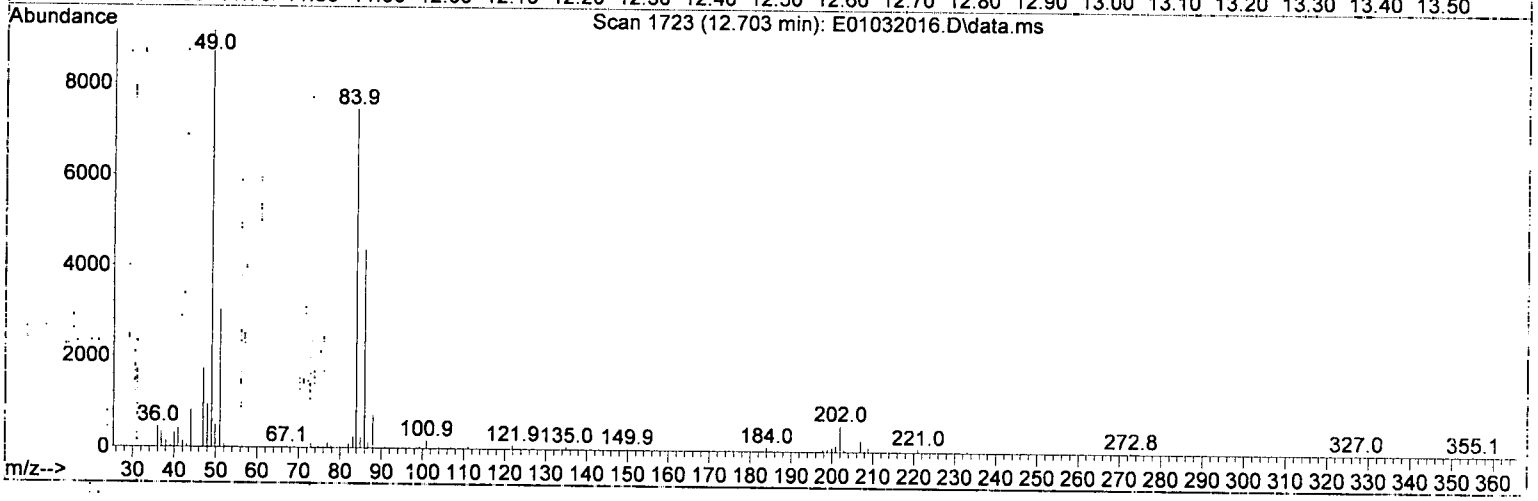
R = 1.96e-002 A*A + 4.84e-001 A - 4.16e-002
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





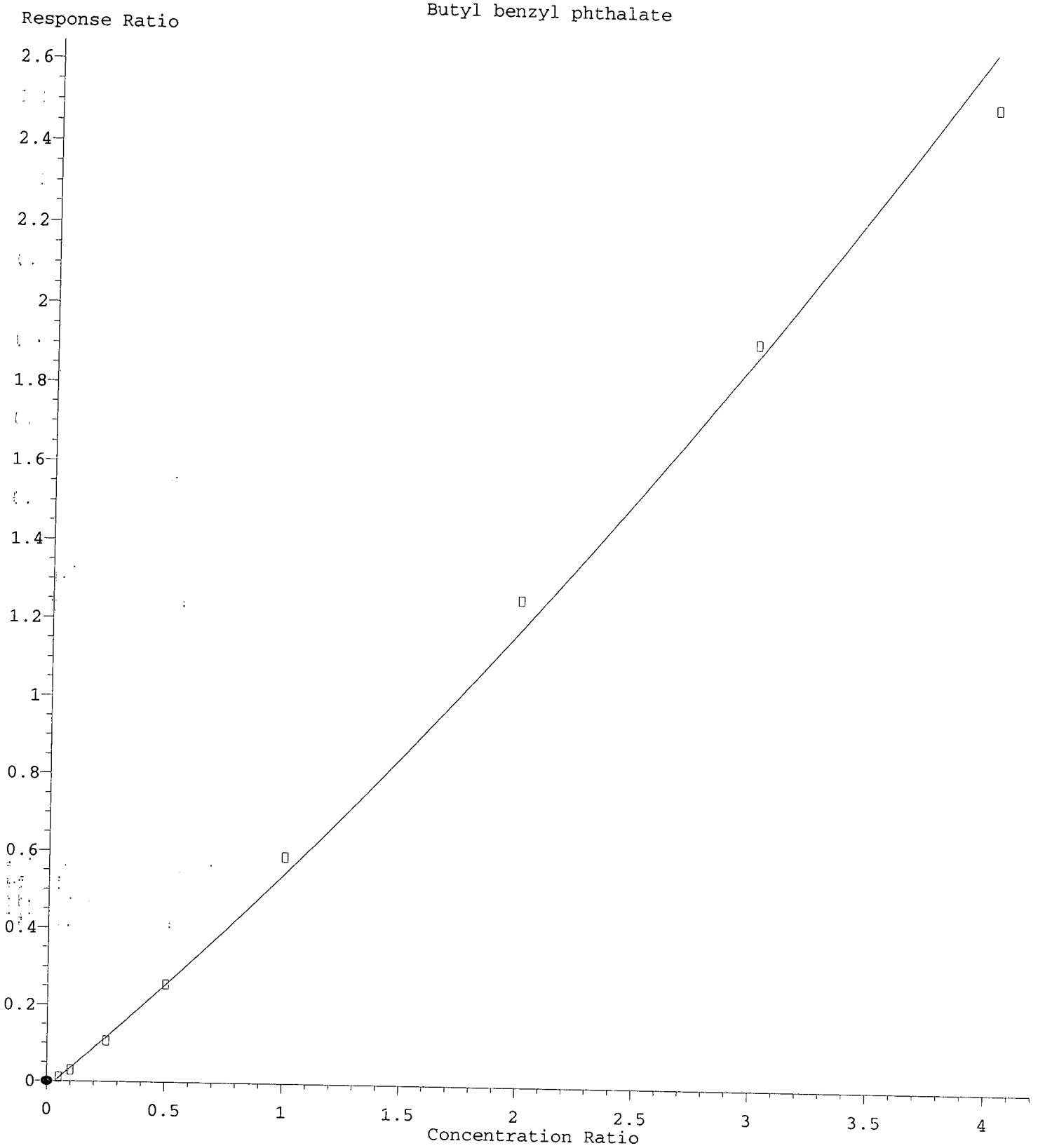
TIC: E01032016.D\data.ms

(76) Benzidine (T)

12.703min (+ 0.151) 171.62 ng/ml m

response 154

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	15.30	0.00
92.10	9.30	0.00
0.00	0.00	0.00

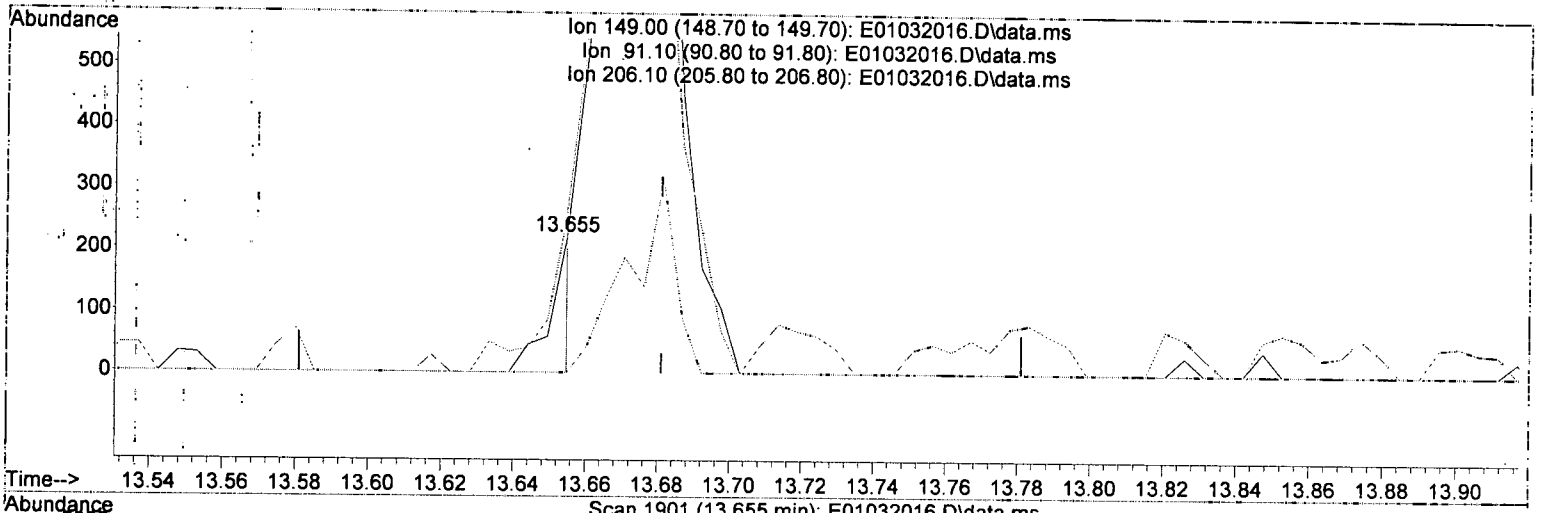


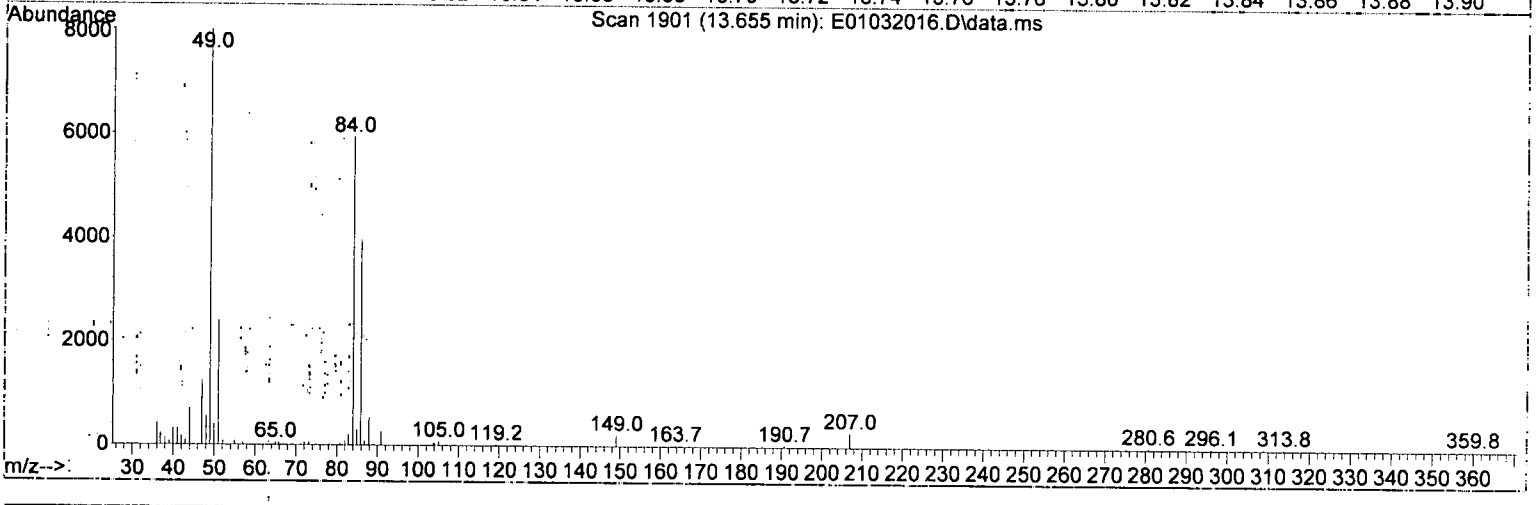
R = 3.58e-002 A*A + 5.27e-001 A - 1.78e-002
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





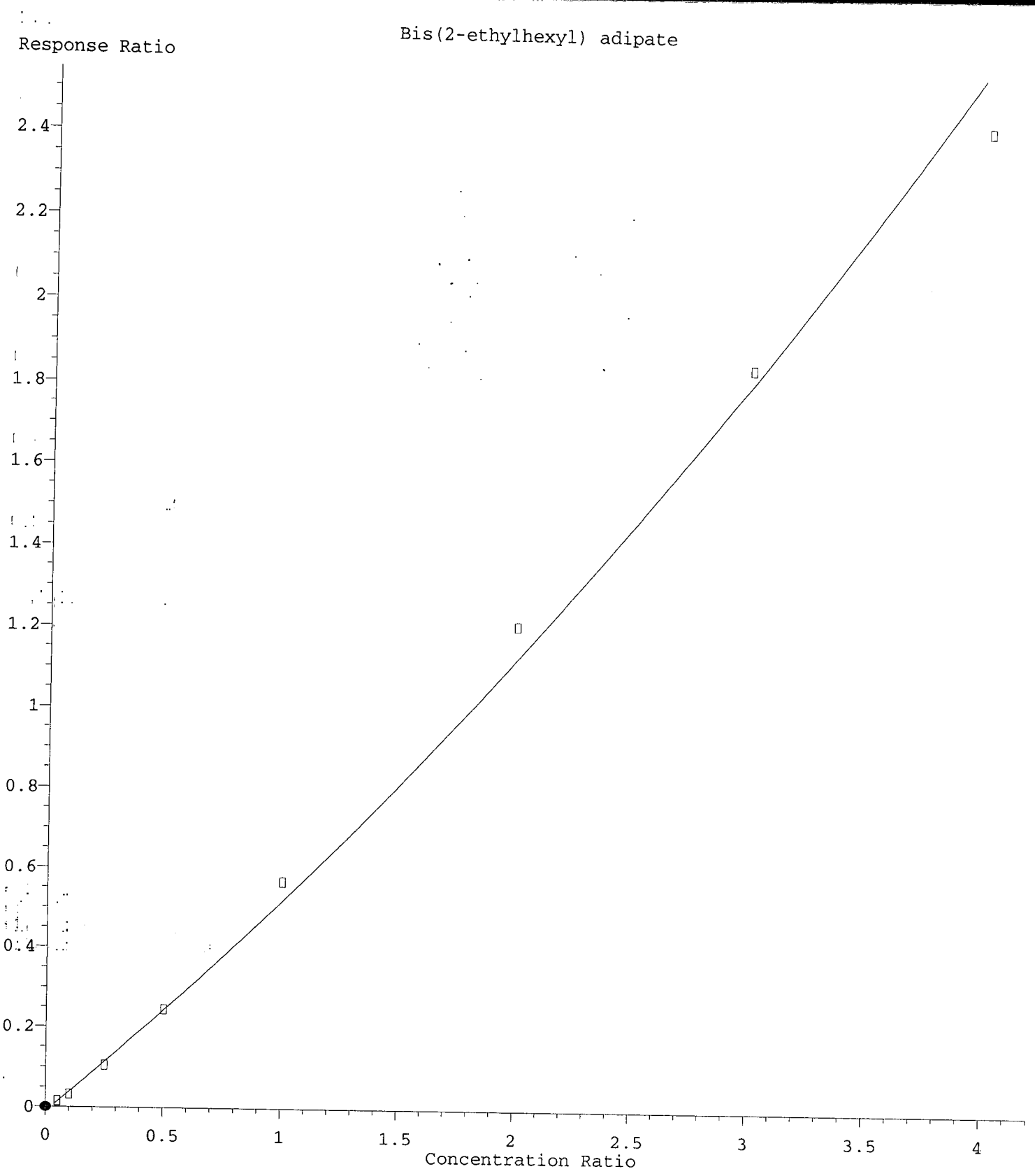
TIC: E01032016.D\data.ms

(80) Butyl benzyl phthalate (T)

13.655min (-0.026) 67.61 ng/ml m

response 105

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	65.80	116.74#
206.10	21.70	0.00
0.00	0.00	0.00

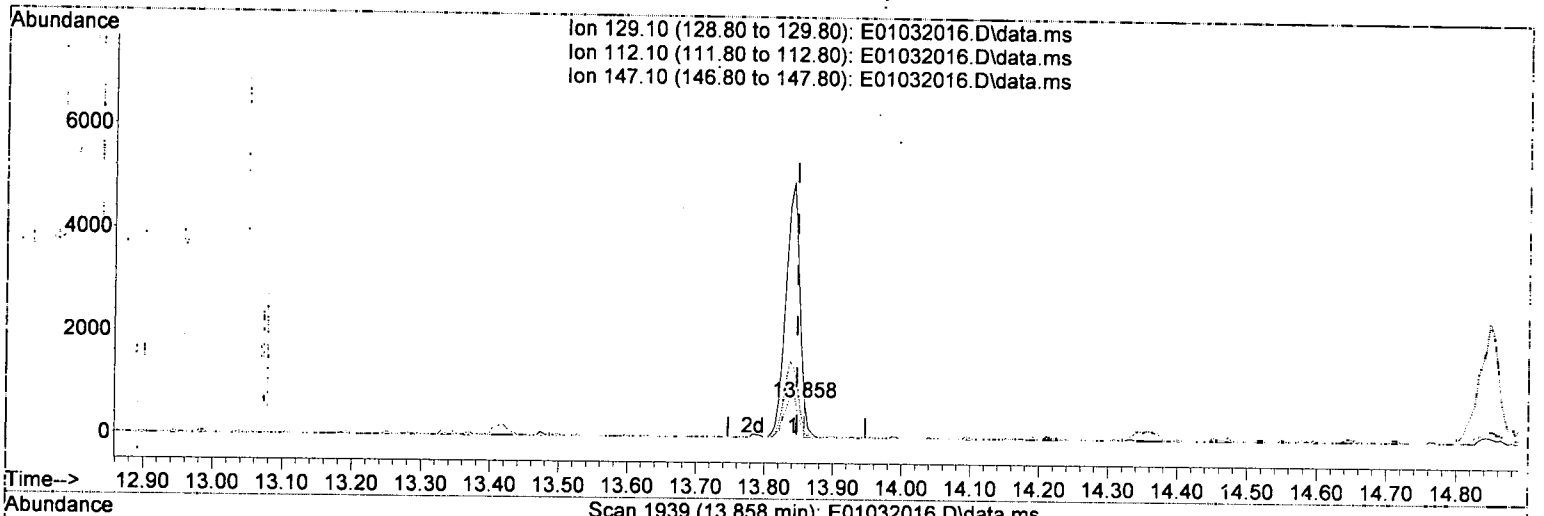


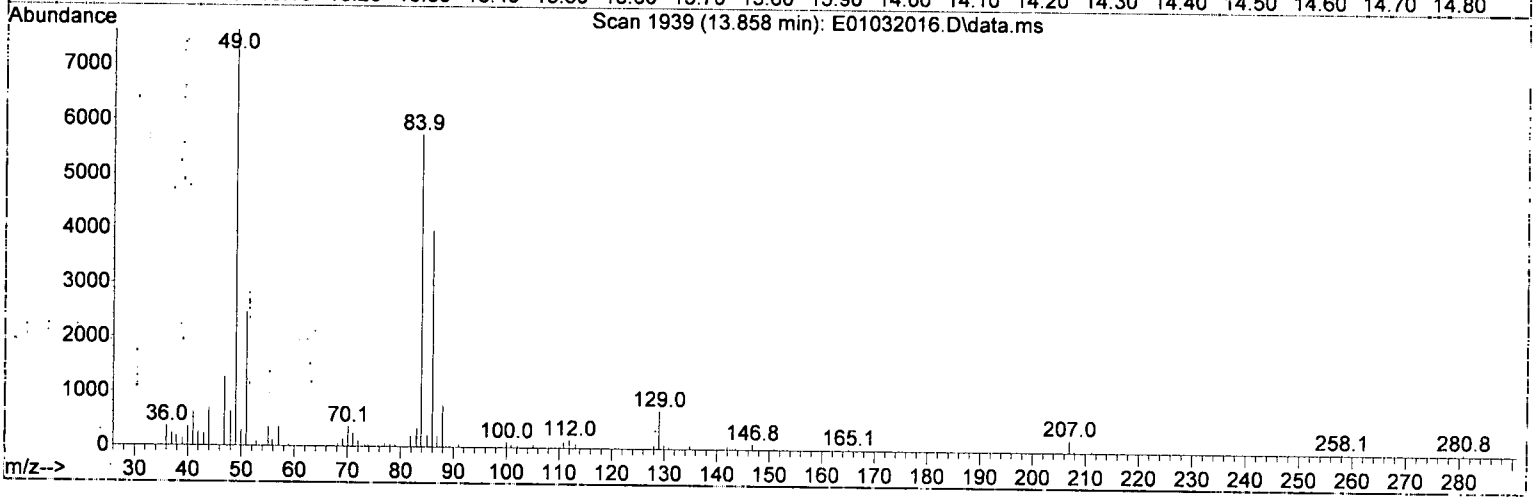
R = 3.91e-002 A*A + 4.90e-001 A - 1.12e-002
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





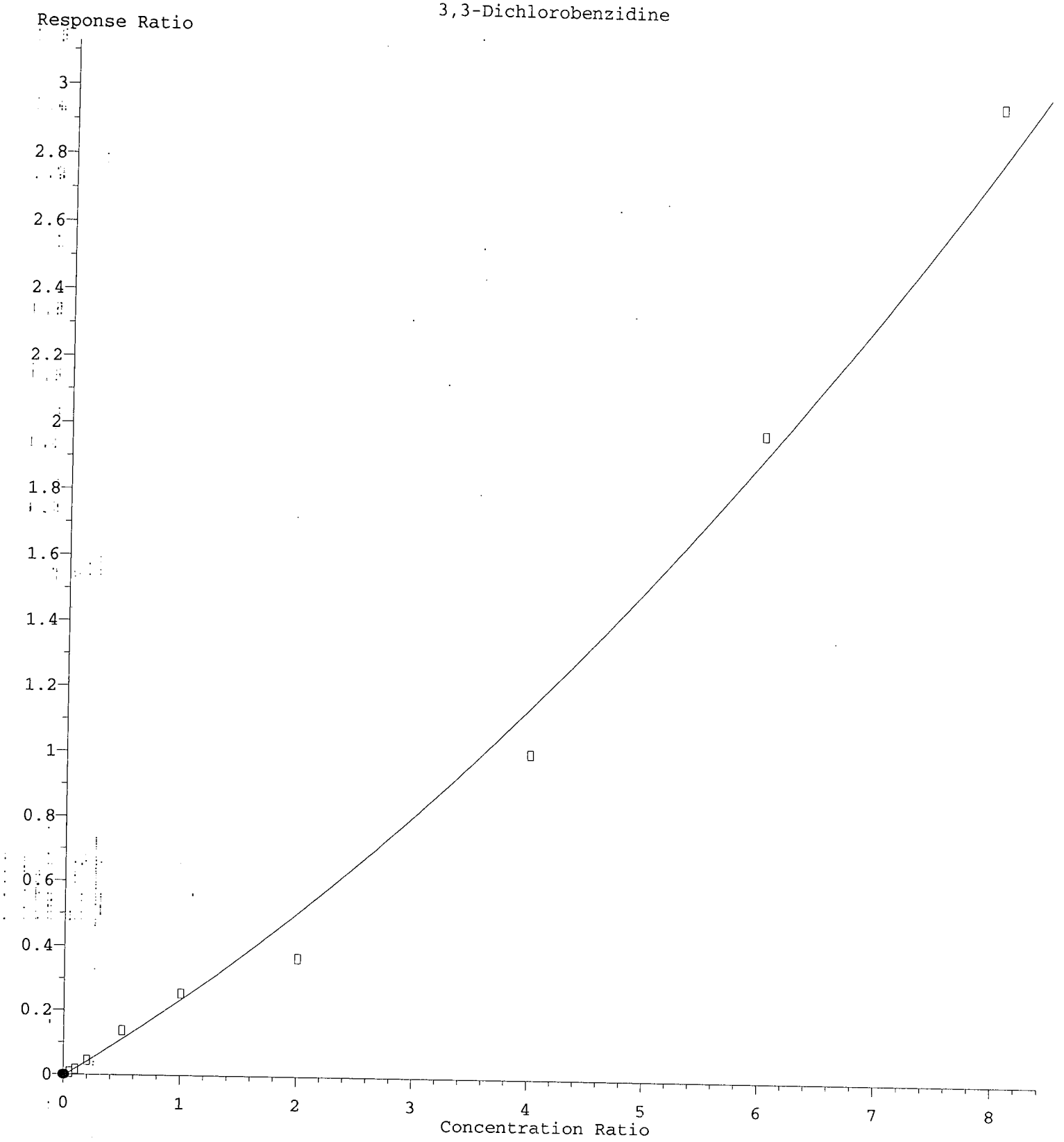
TIC: E01032016.D\data.ms

(81) Bis(2-ethylhexyl) adipate (T)

13.858min (+ 0.011) 45.93 ng/ml m

response 112

Ion	Exp%	Act%
129.10	100.00	100.00
112.10	26.80	21.29
147.10	17.00	14.43
0.00	0.00	0.00

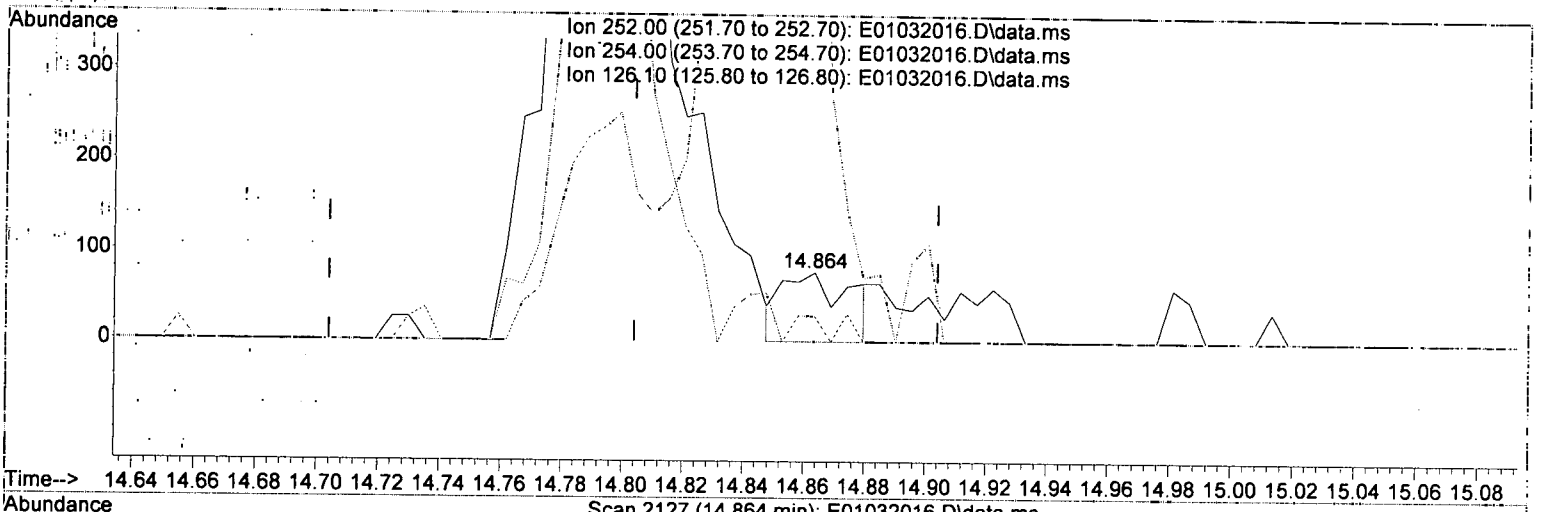


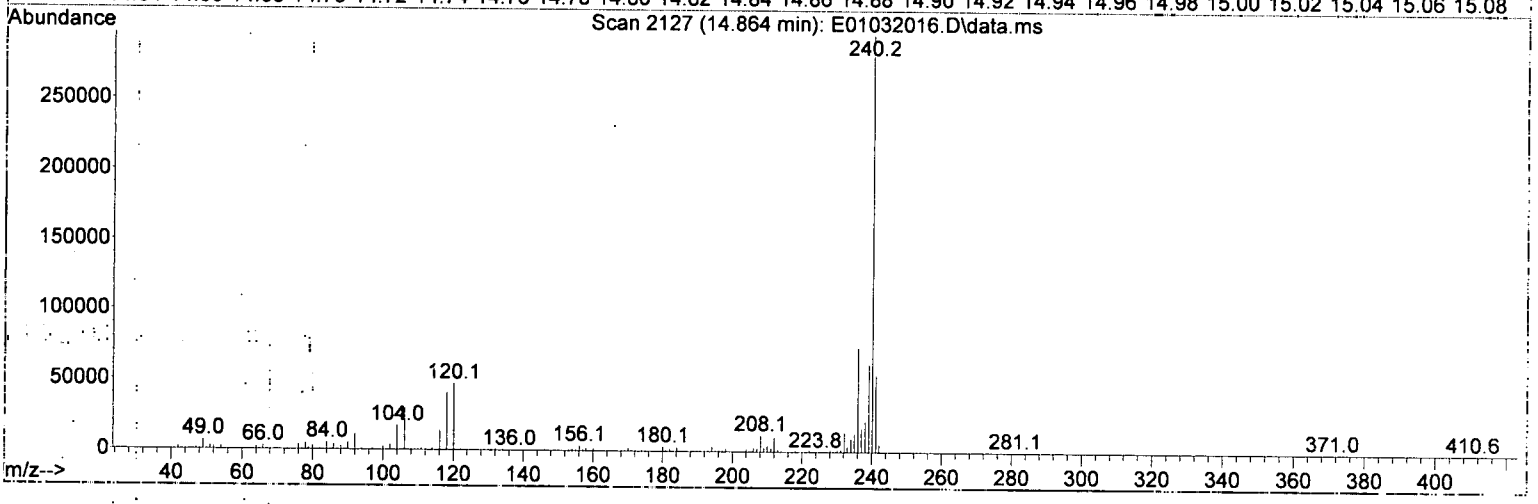
R = 1.60e-002 A*A + 2.24e-001 A - 5.36e-003
Coef of Det (r^2) = 0.979 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\Svtr_OEA320 - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1084 of 1443
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





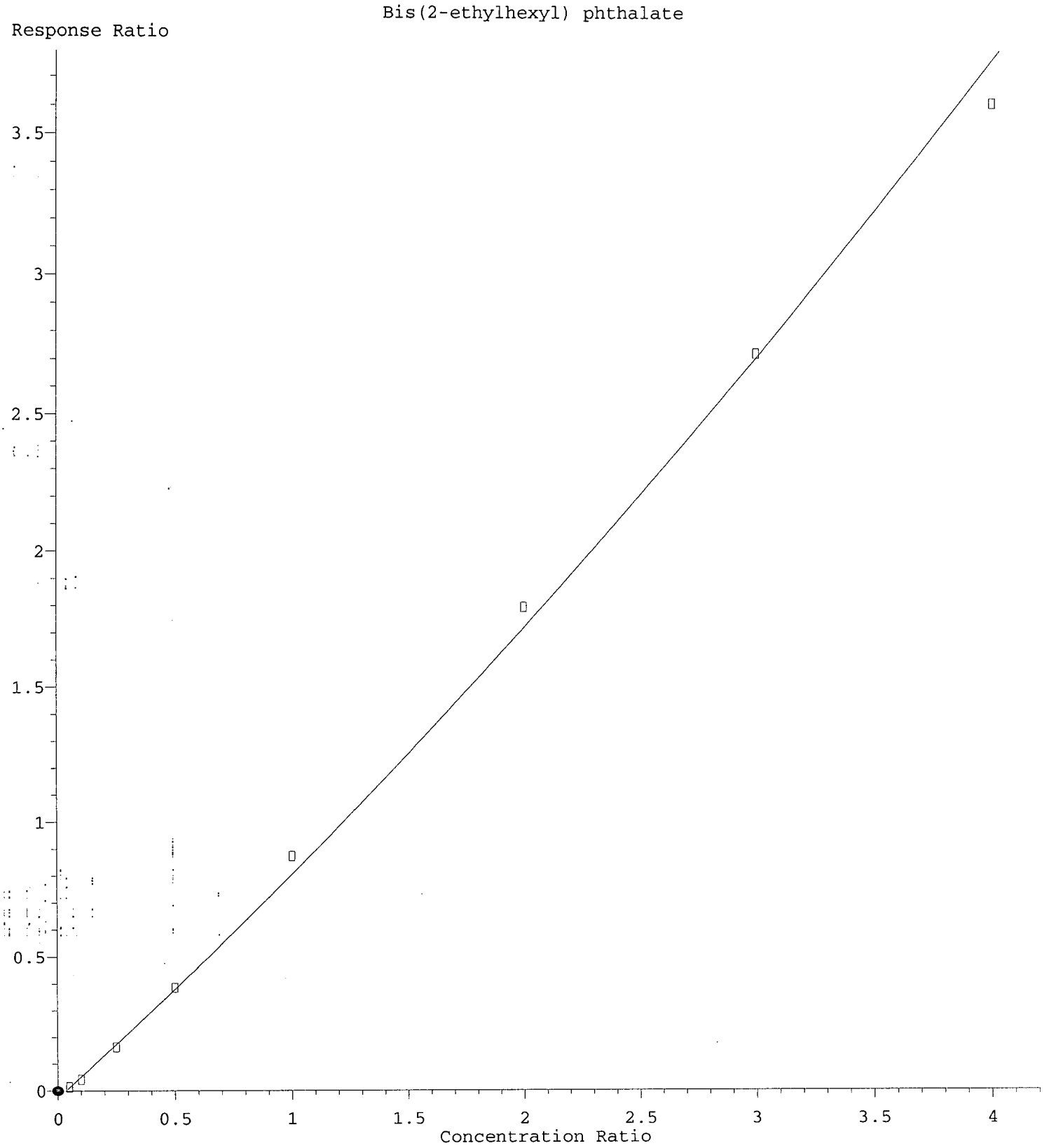
TIC: E01032016.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

14.864min (+ 0.060) 48.69 ng/ml m

response 120

Ion	Exp%	Act%
252.00	100.00	100.00
254.00	64.20	36.36
126.10	15.30	844.16#
0.00	0.00	0.00

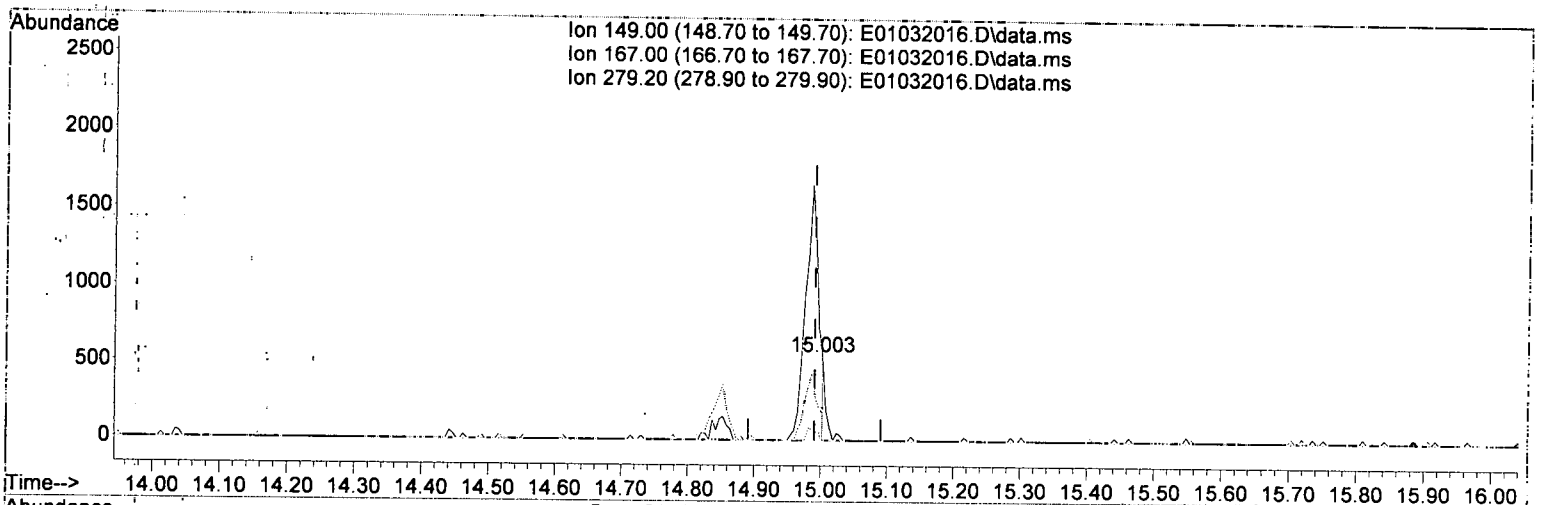


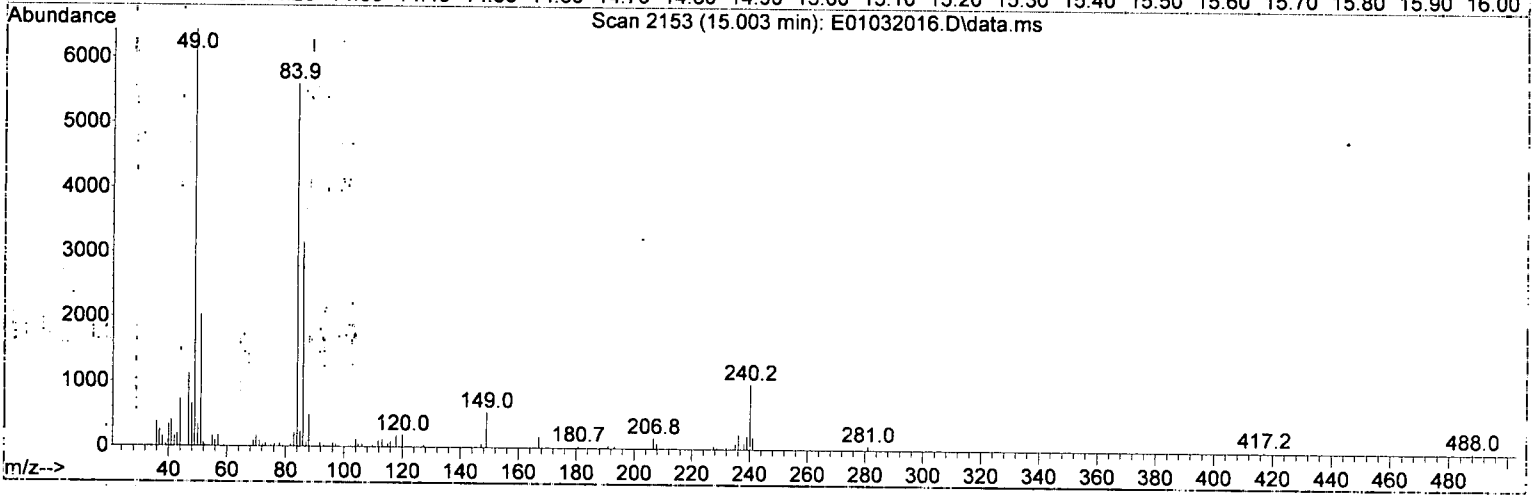
R = 3.87e-002 A*A + 7.93e-001 A - 2.82e-002
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





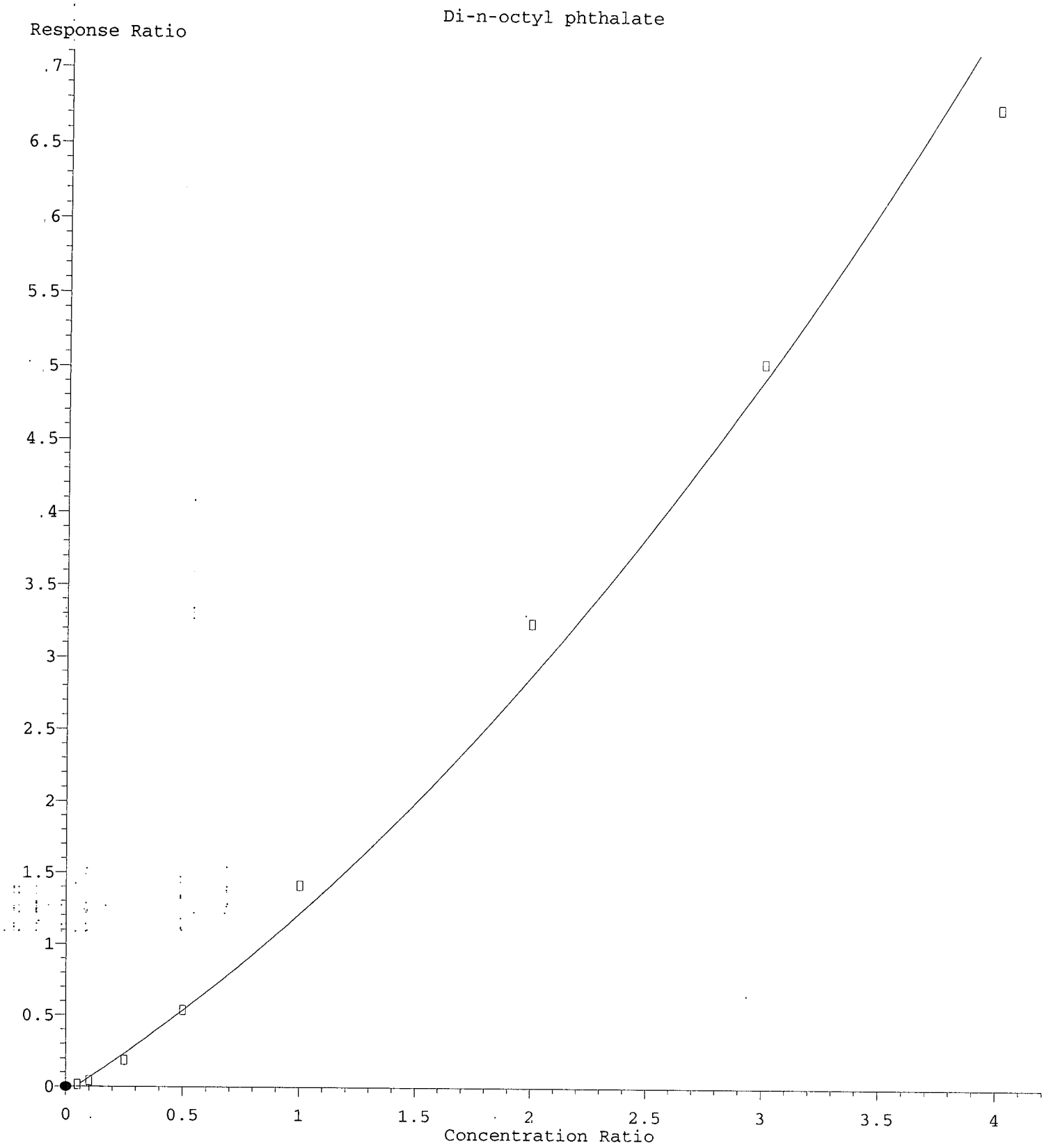
TIC: E01032016.D\data.ms

(85) Bis(2-ethylhexyl) phthalate (T)

15.003min (+ 0.012) 71.22 ng/ml m

response 103

Ion	Exp%	Act%
149.00	100.00	100.00
167.00	29.50	31.93
279.20	6.00	0.00
0.00	0.00	0.00

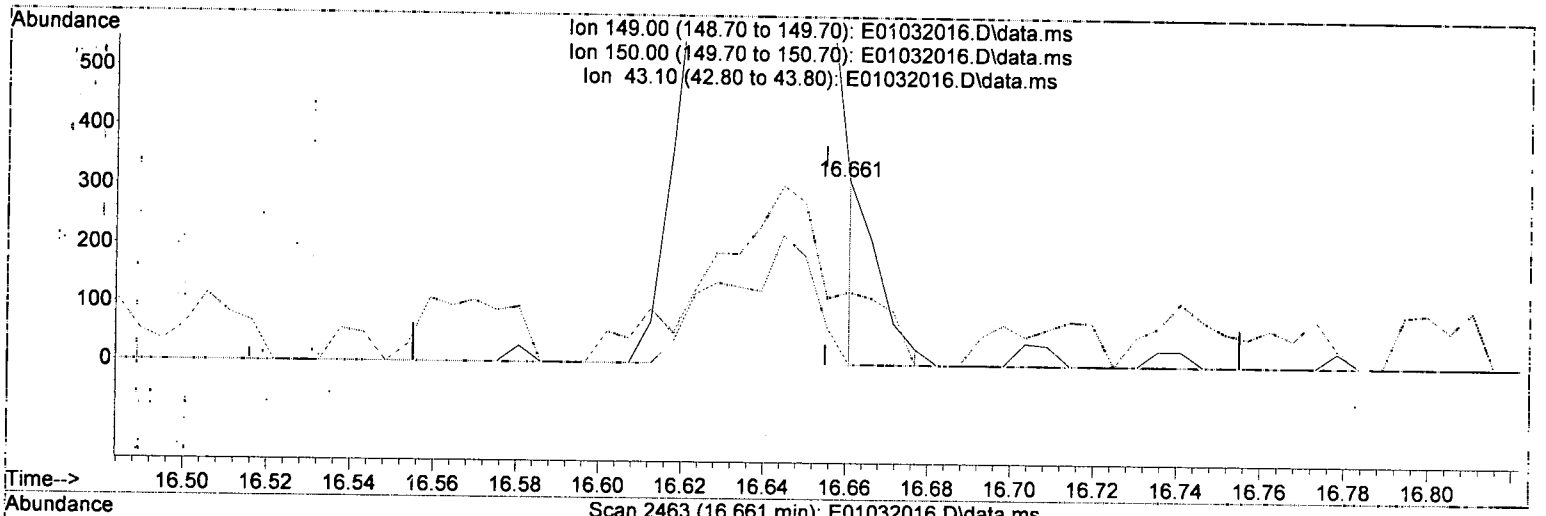


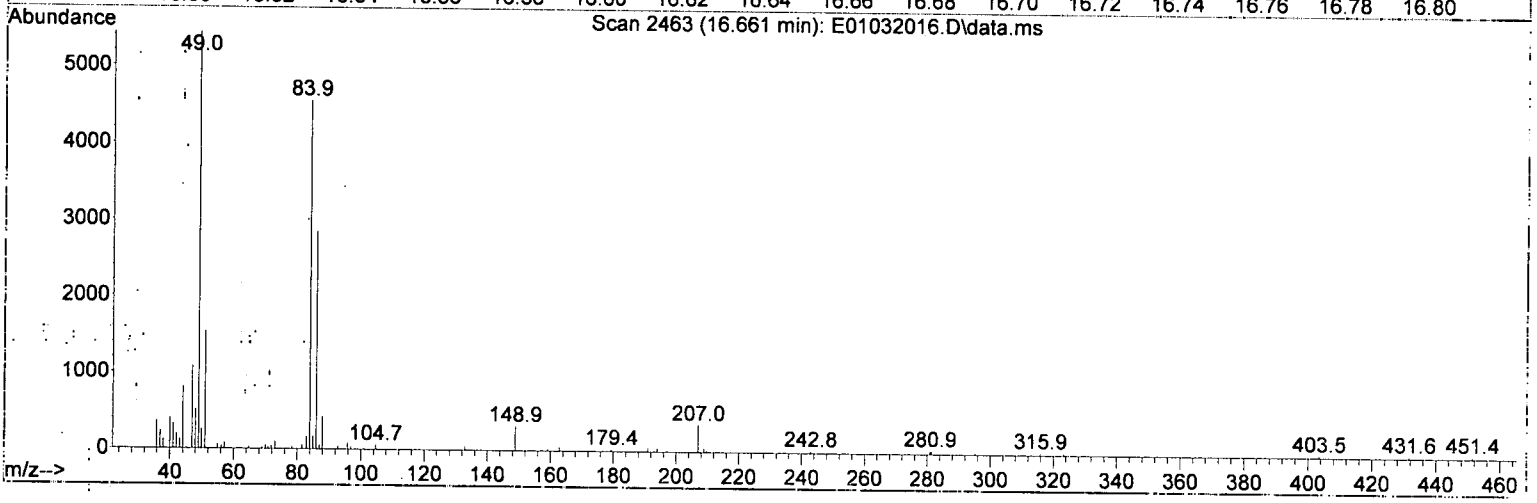
R = 1.99e-001 A*A + 1.06e+000 A - 4.50e-002
Coef of Det (r^2) = 0.983 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





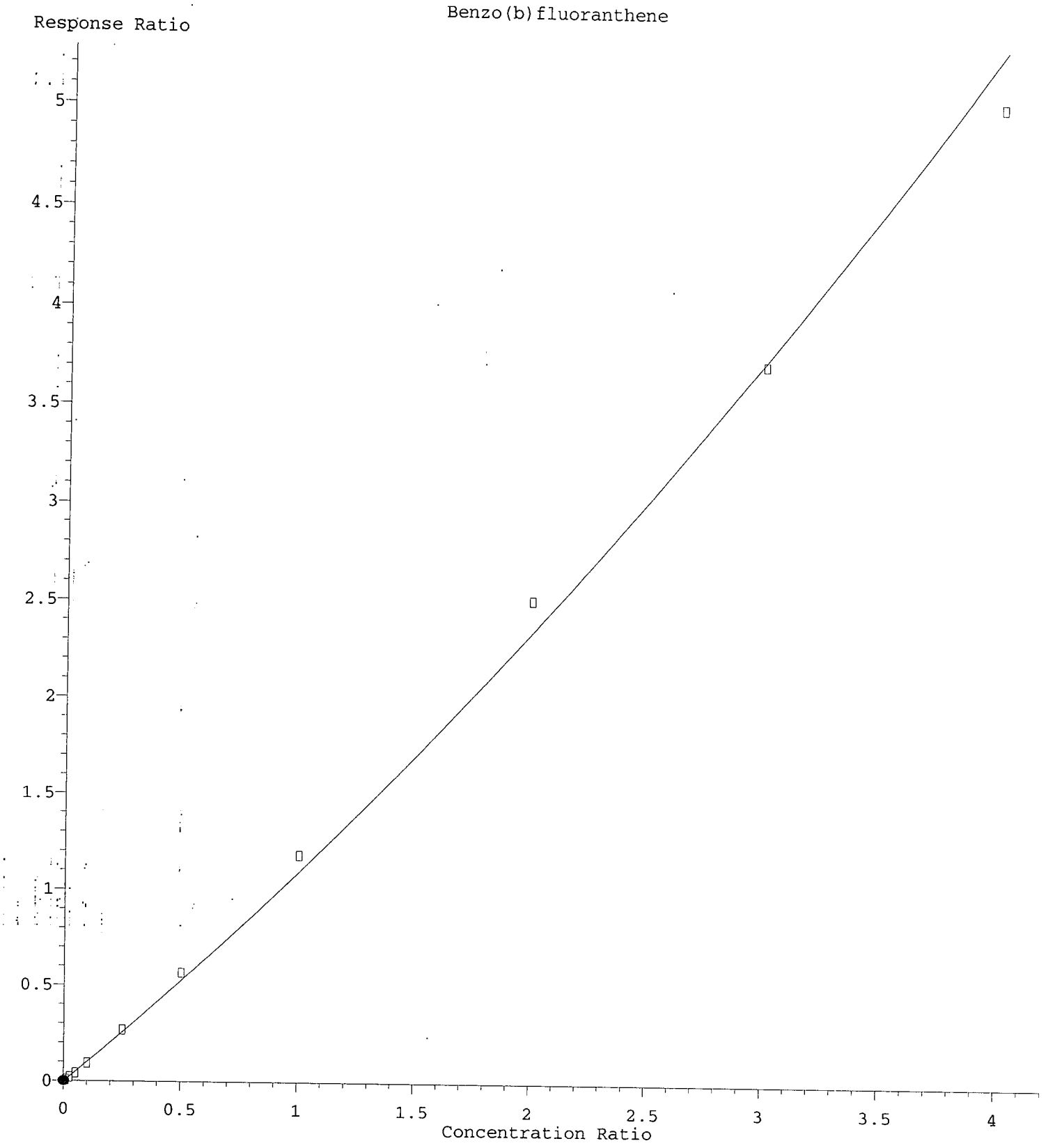
TIC: E01032016.D\data.ms

(87) Di-n-octyl phthalate (T)

16.661min (+ 0.006) 84.26 ng/ml m

response 100

Ion	Exp%	Act%
149.00	100.00	100.00
150.00	9.90	0.00
43.10	7.70	39.94#
0.00	0.00	0.00

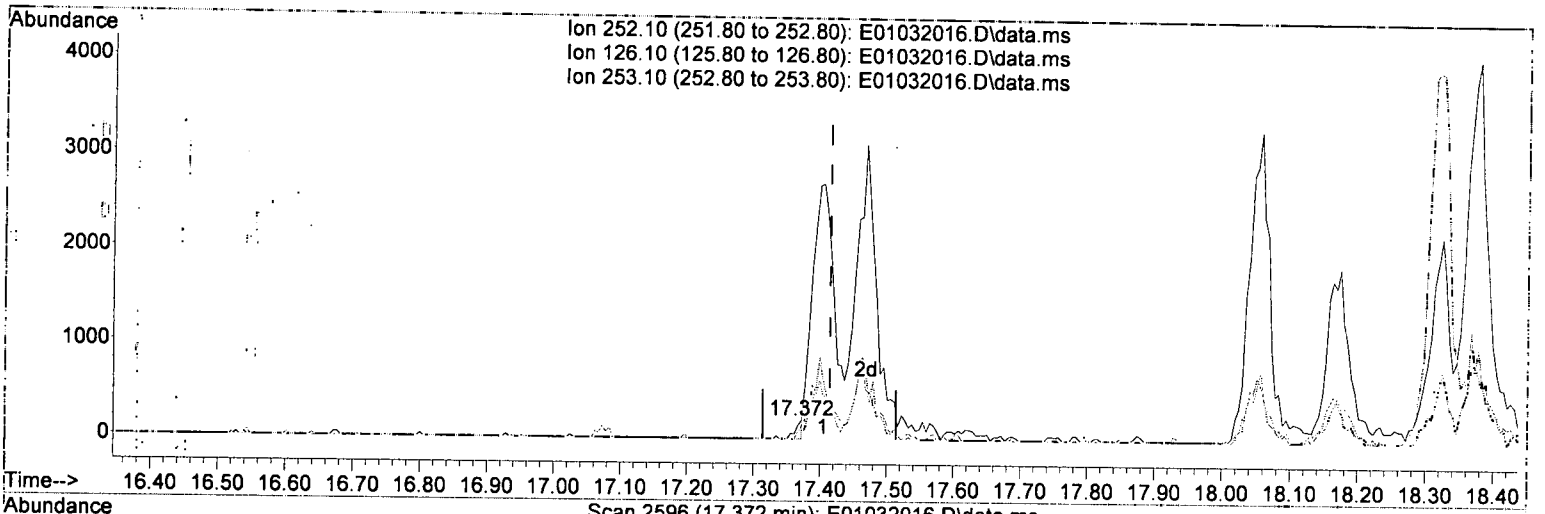


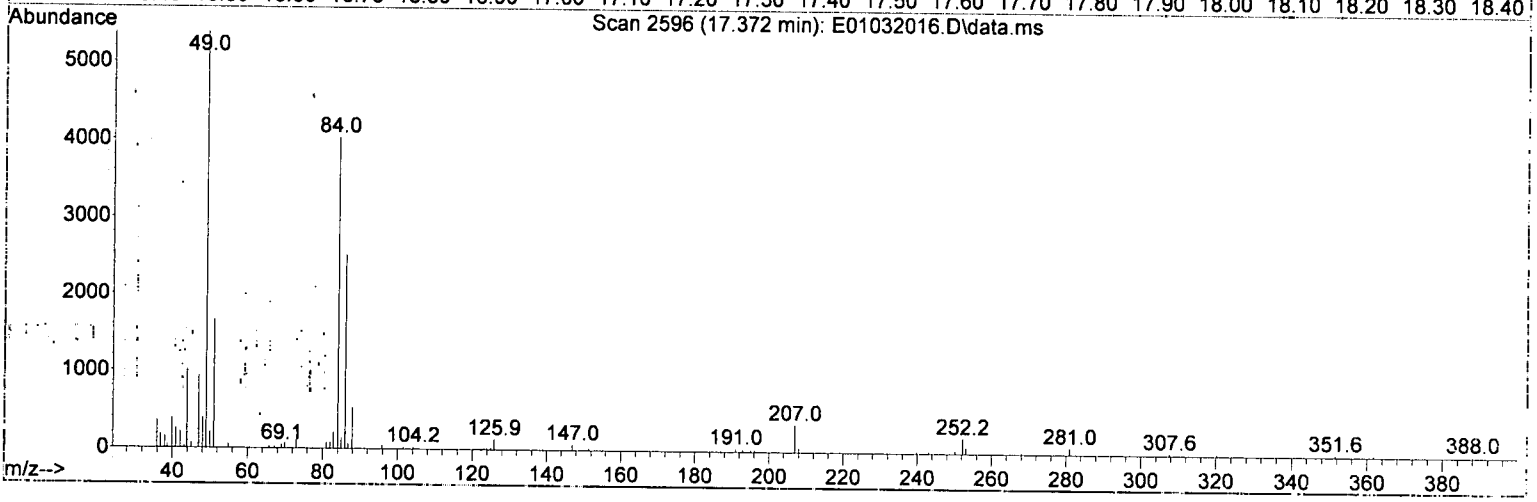
R = 7.49e-002 A*A + 1.02e+000 A - 4.89e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\8V5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





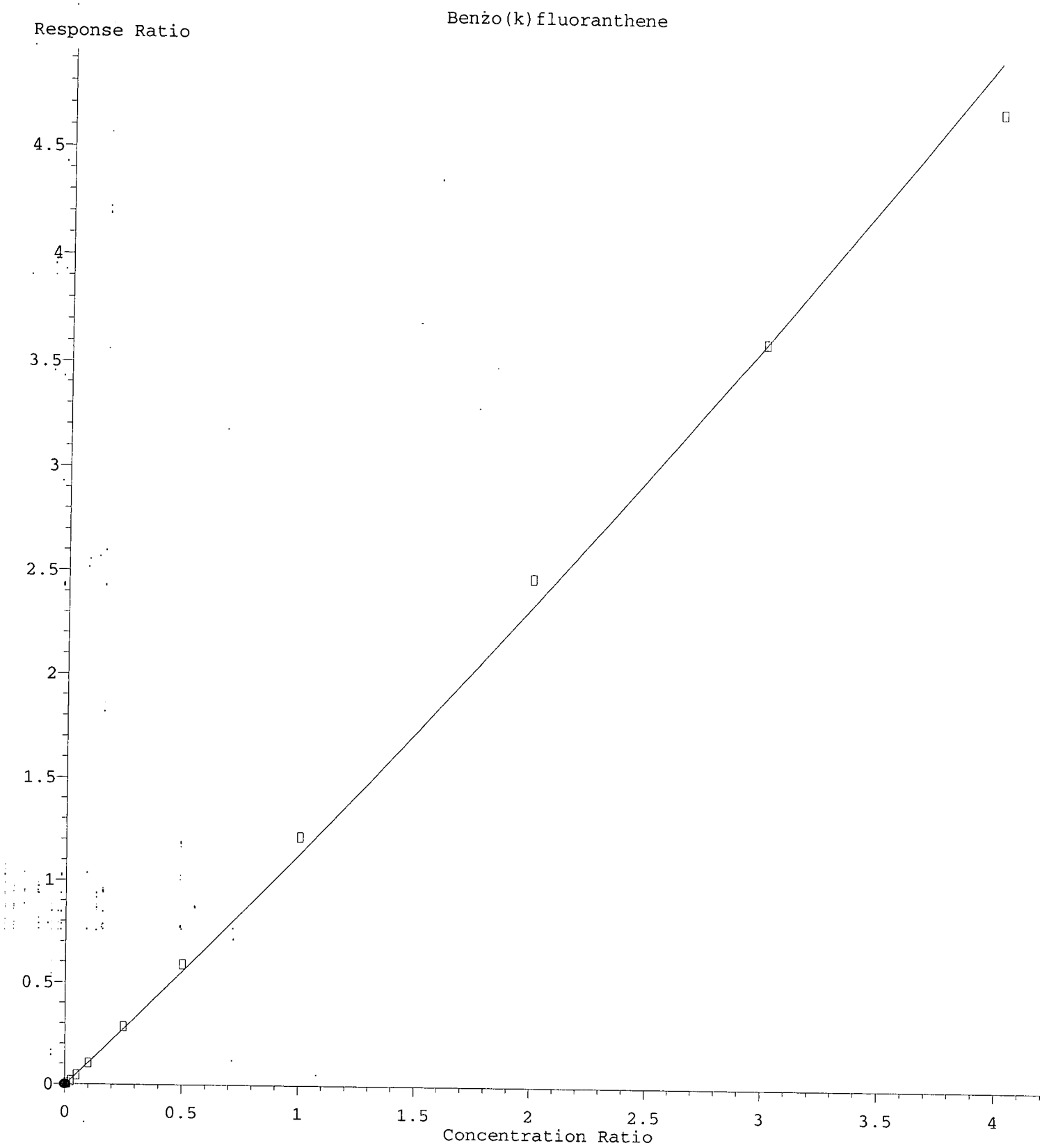
TIC: E01032016.D\data.ms

(88) Benzo(b)fluoranthene (T)

17.372min (-0.042) 9.81 ng/ml m ✓

response 141

Ion	Exp%	Act%
252.10	100.00	100.00
126.10	18.20	67.69#
253.10	21.80	38.46
0.00	0.00	0.00

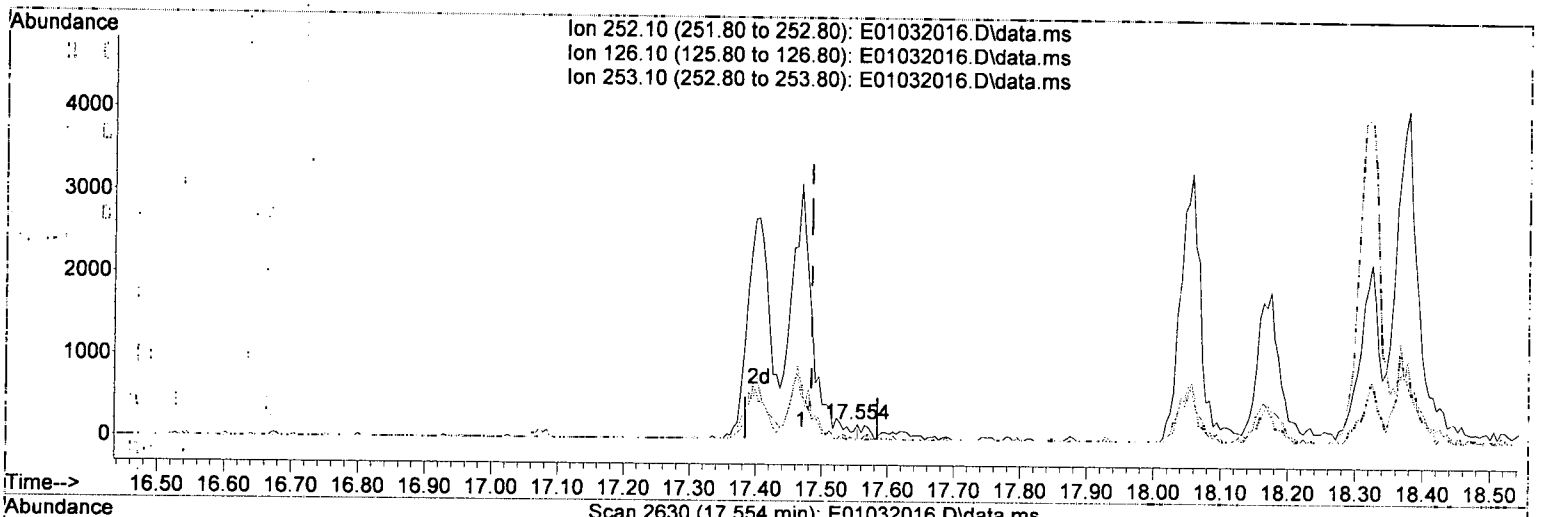


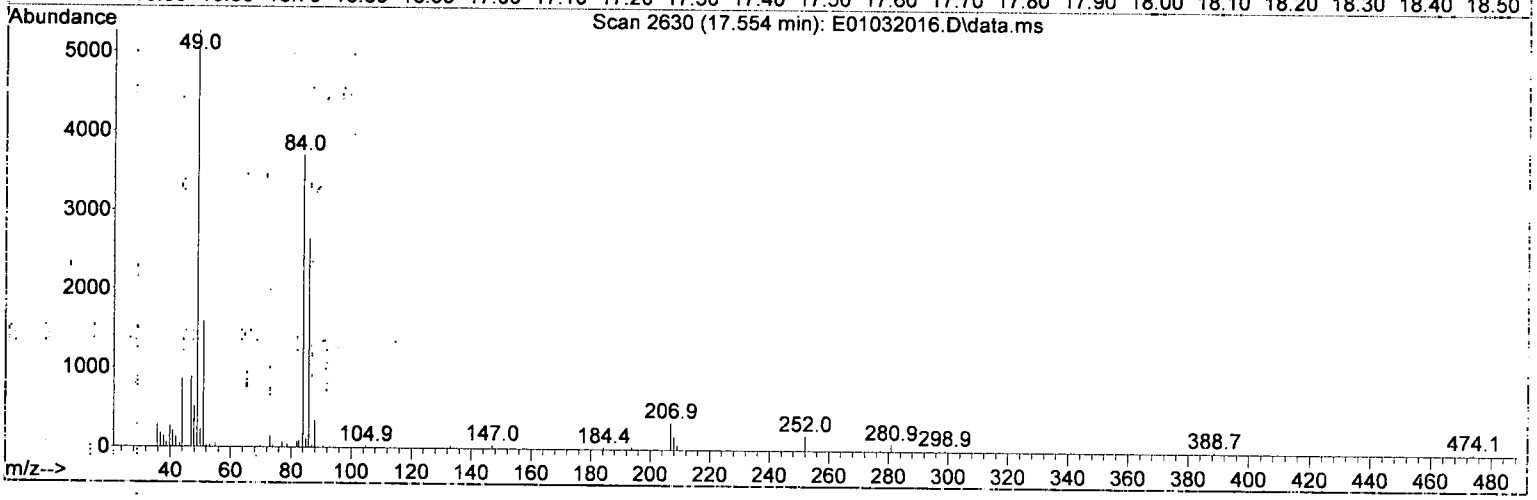
R = 3.36e-002 A*A + 1.10e+000 A - 6.00e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





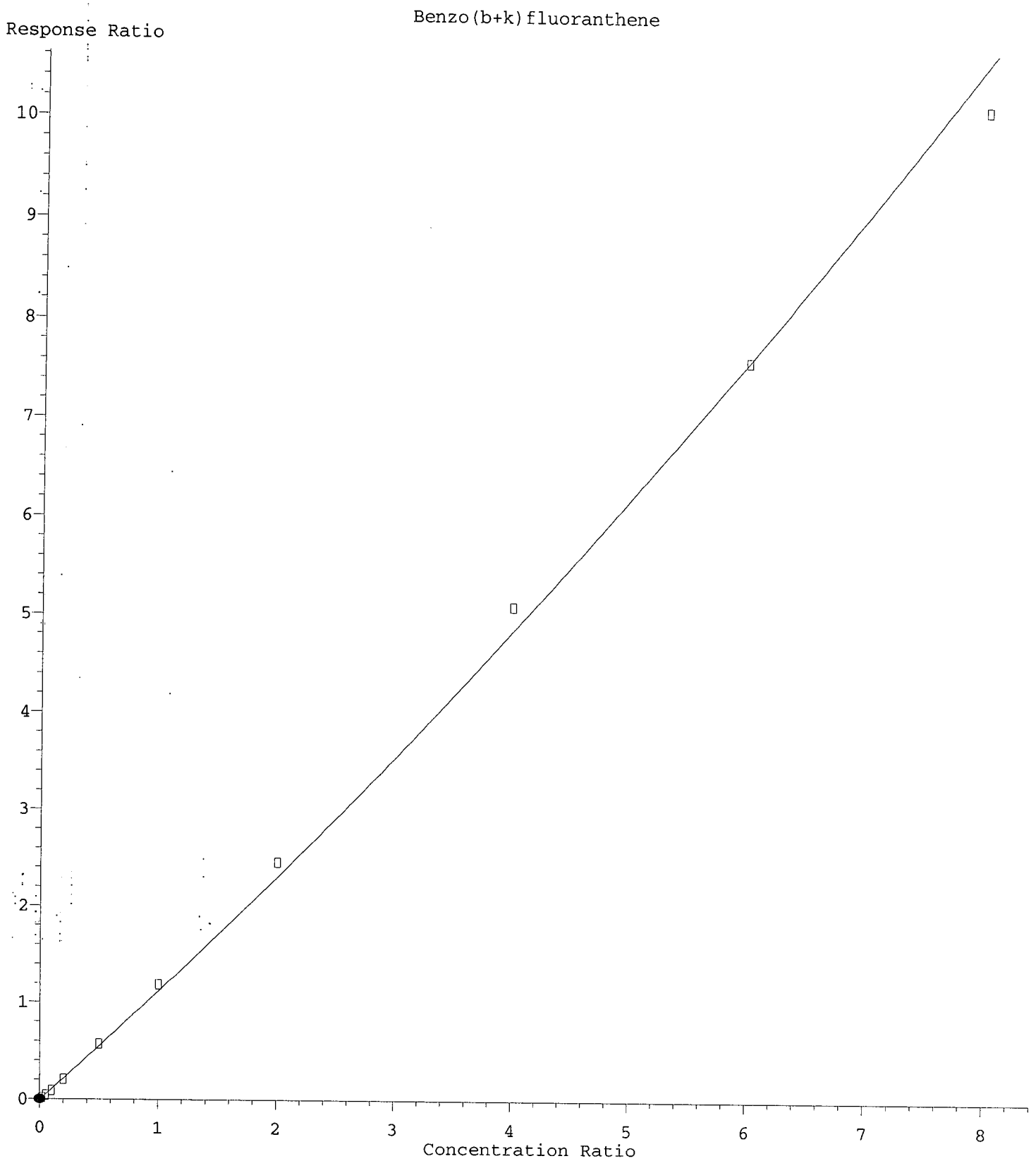
TIC: E01032016.D\data.ms

(89) Benzo(k)fluoranthene (T)

17.554min (+ 0.070) 11.17 ng/ml m

response 176

Ion	Exp%	Act%
252.10	100.00	100.00
126.10	20.90	0.00
253.10	22.00	0.00
0.00	0.00	0.00

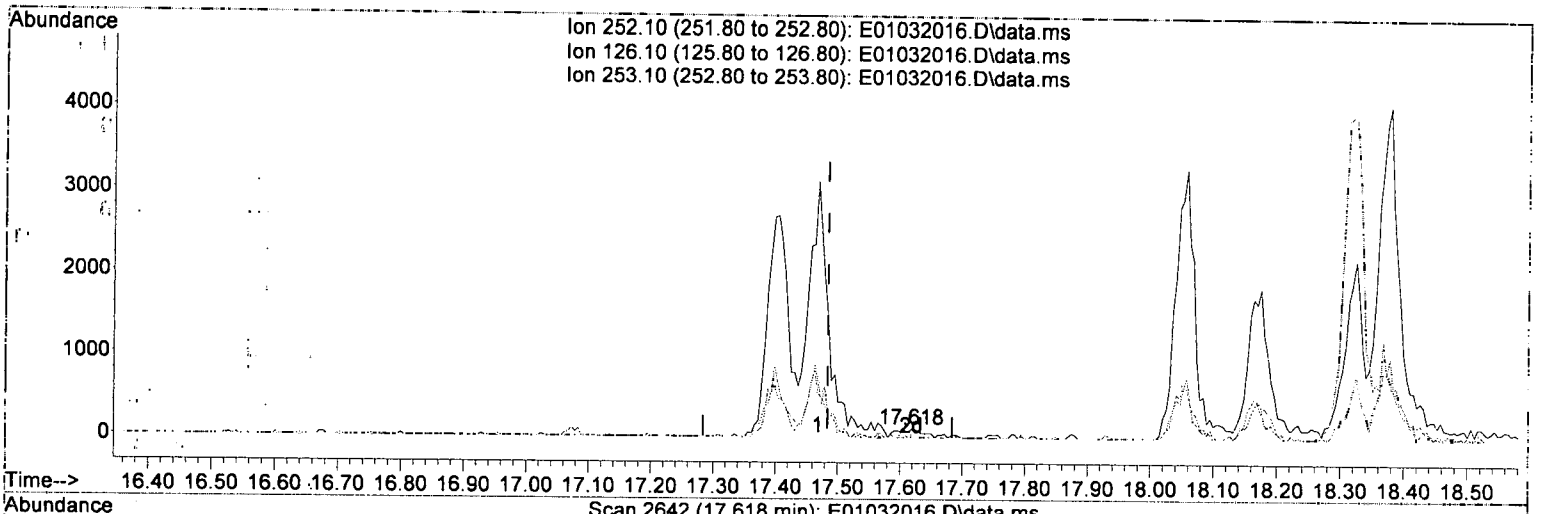


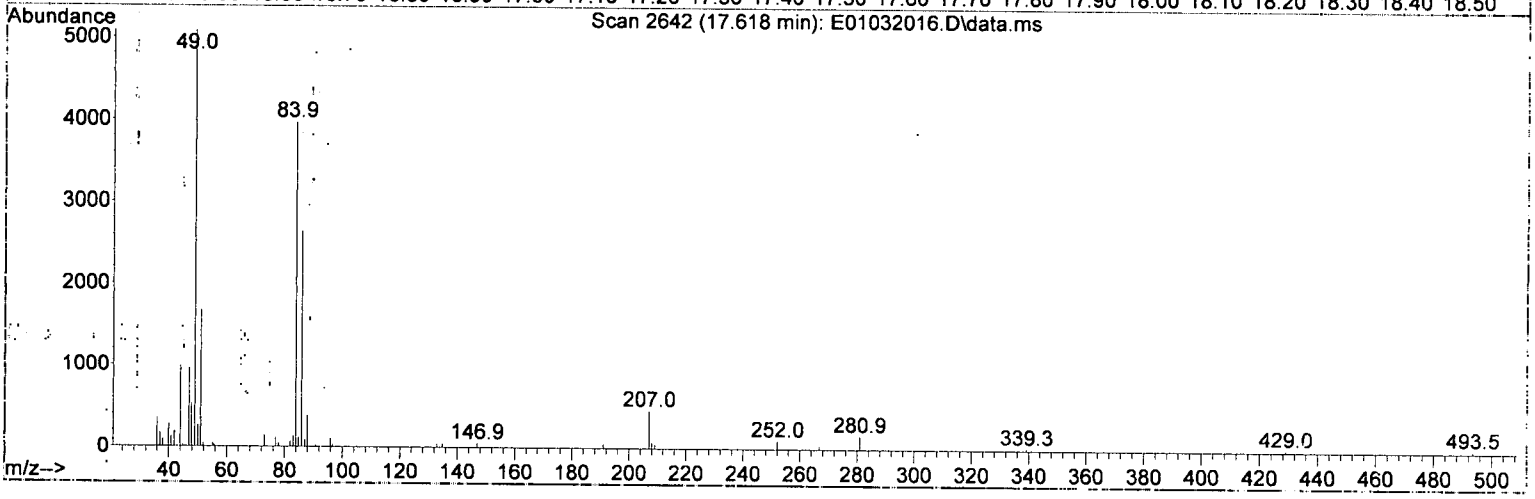
R = 2.79e-002 A*A + 1.10e+000 A - 1.07e-002
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032016.D\data.ms

(90) Benzo(b+k)fluoranthene (T)

17.618min (+ 0.134) 19.58 ng/ml m

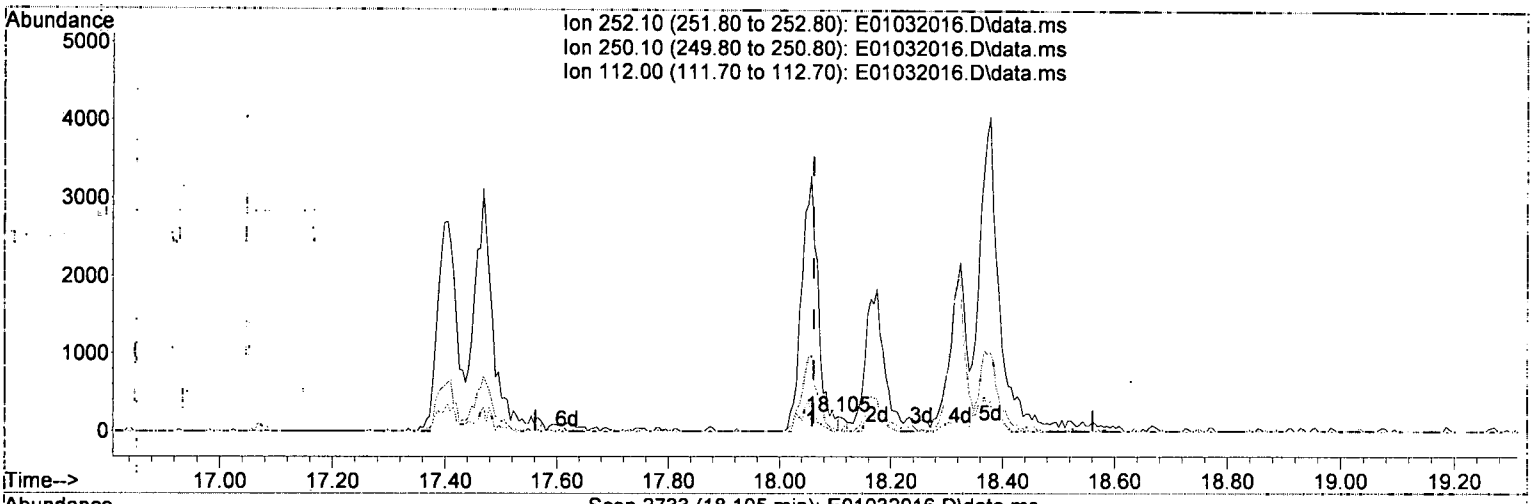
response 127

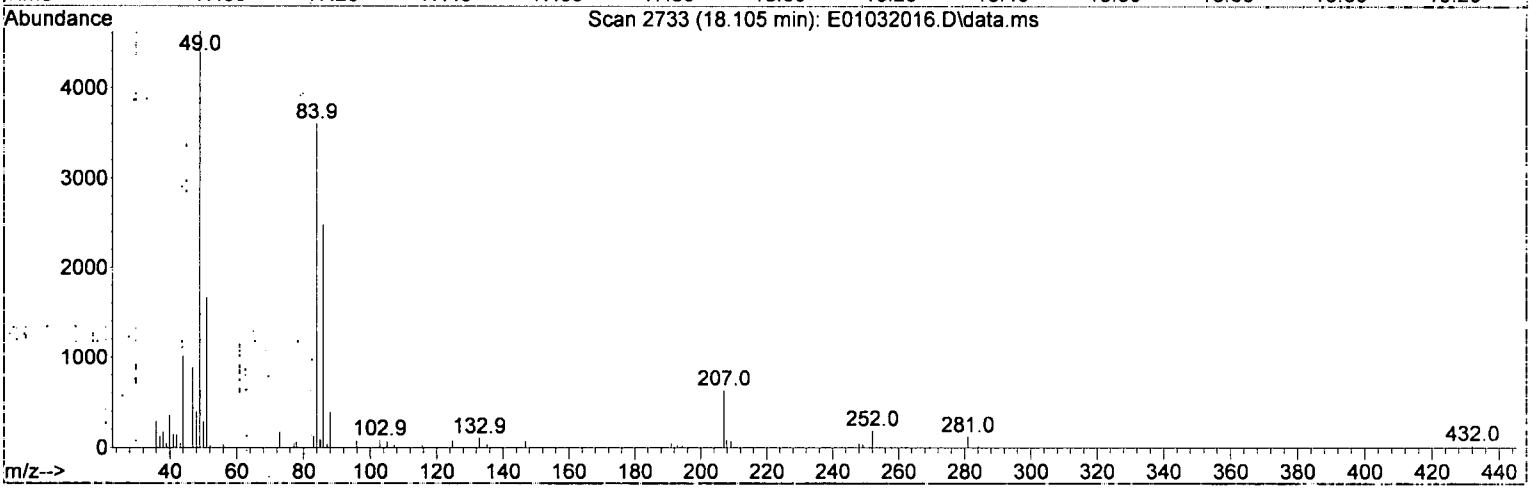
Ion	Exp%	Act%
252.10	100.00	100.00
126.10	20.90	0.00
253.10	22.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





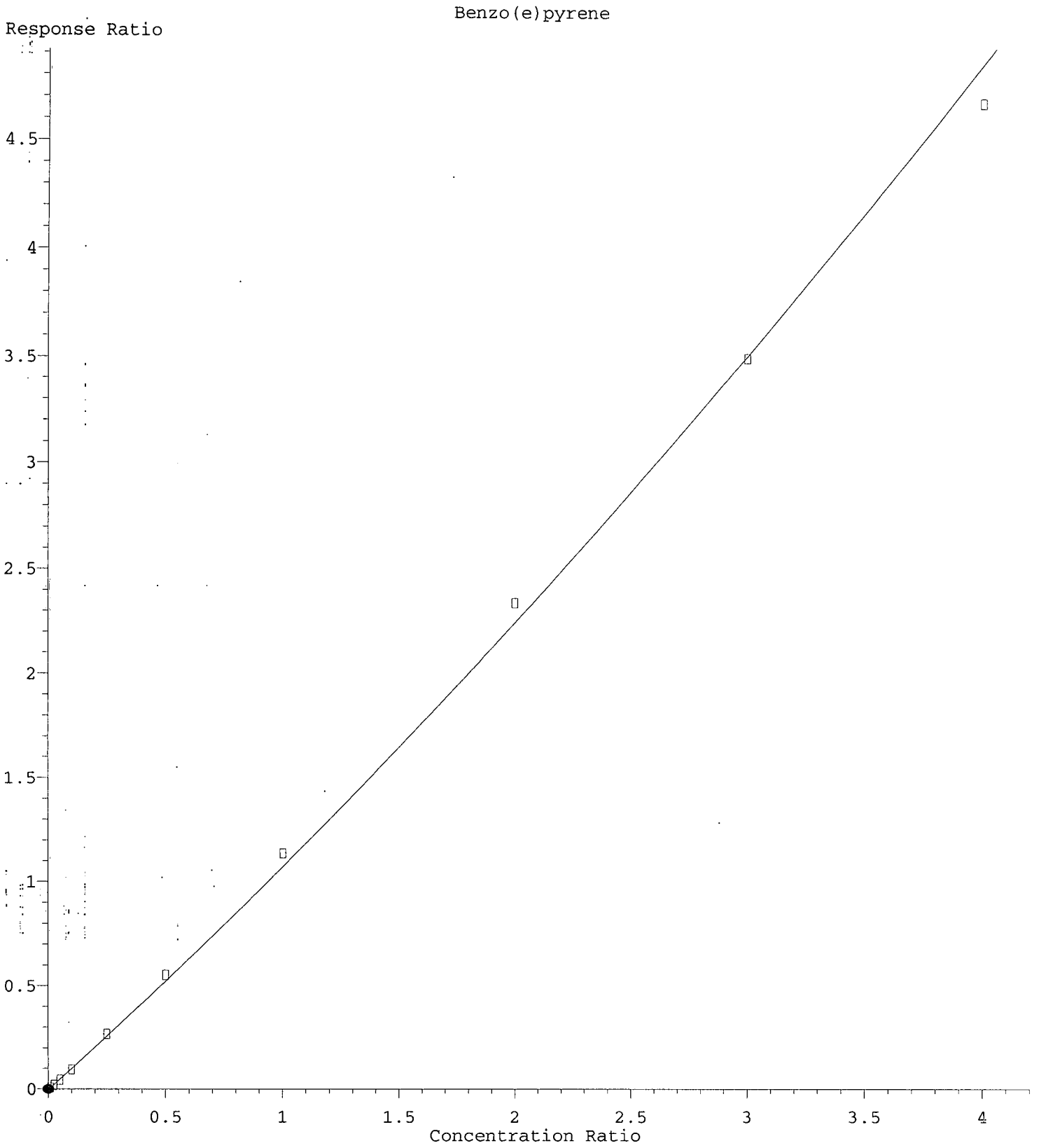
TIC: E01032016.D\data.ms

(91) Benzo(e)pyrene (T)

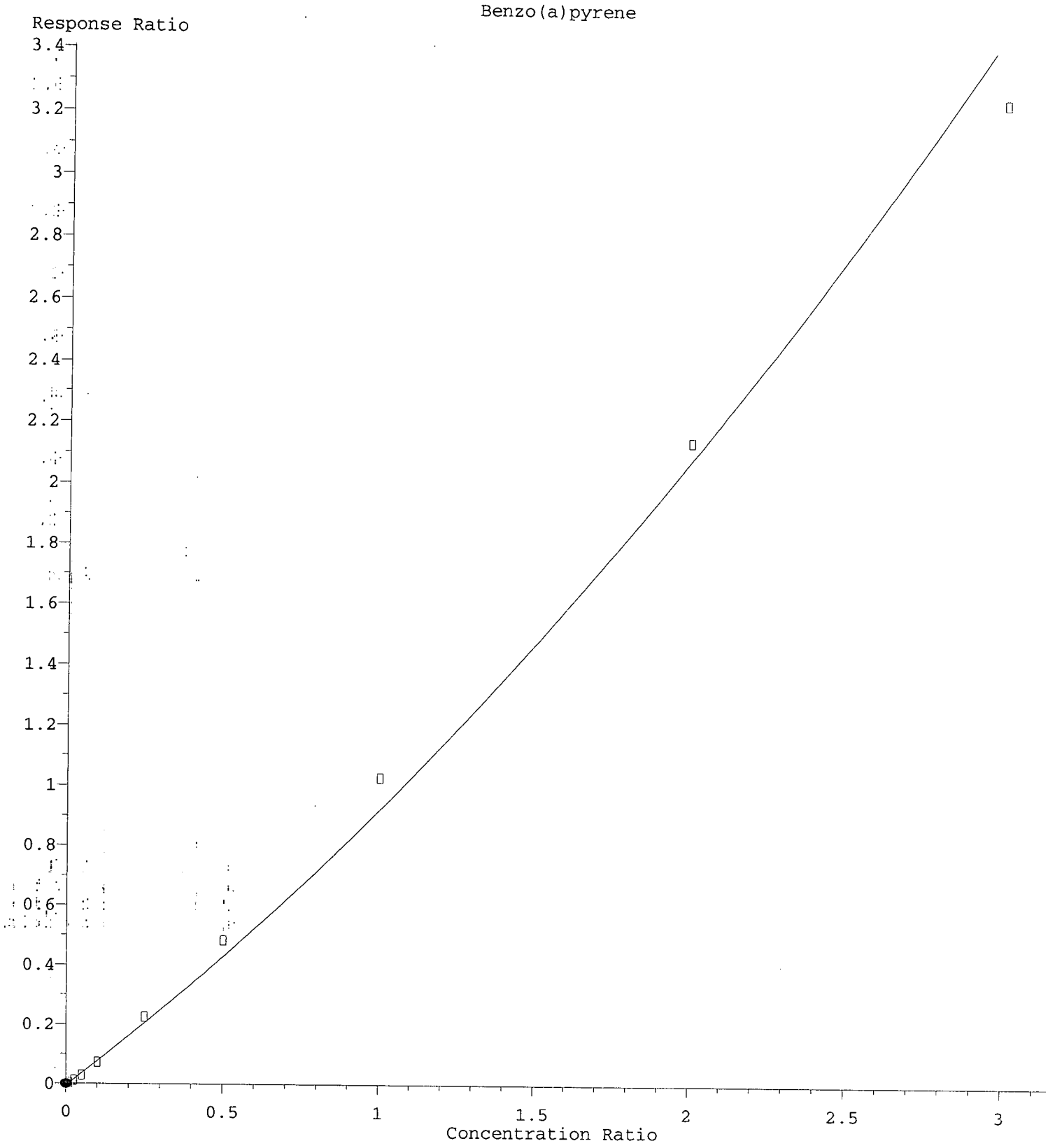
18.105min (+ 0.044) 8.36 ng/ml m

response 145

Ion	Exp%	Act%
252.10	100.00	100.00
250.10	28.30	0.00
112.00	6.80	0.00
0.00	0.00	0.00



R = 4.73e-002 A*A + 1.03e+000 A - 4.15e-003
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

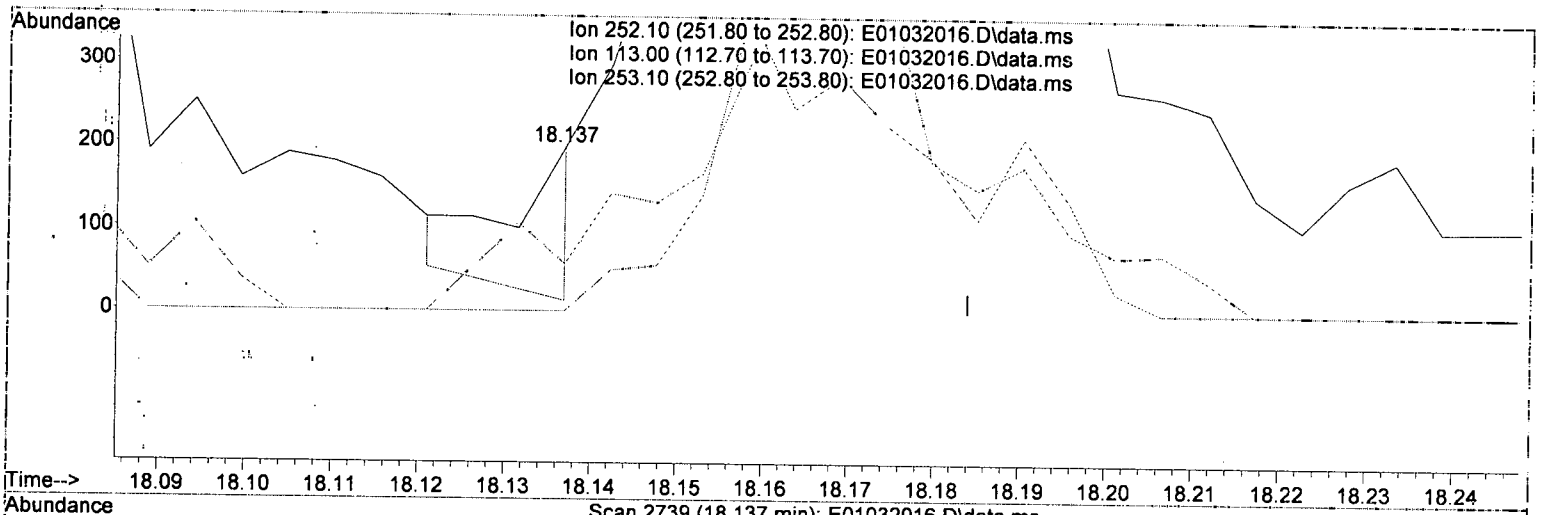


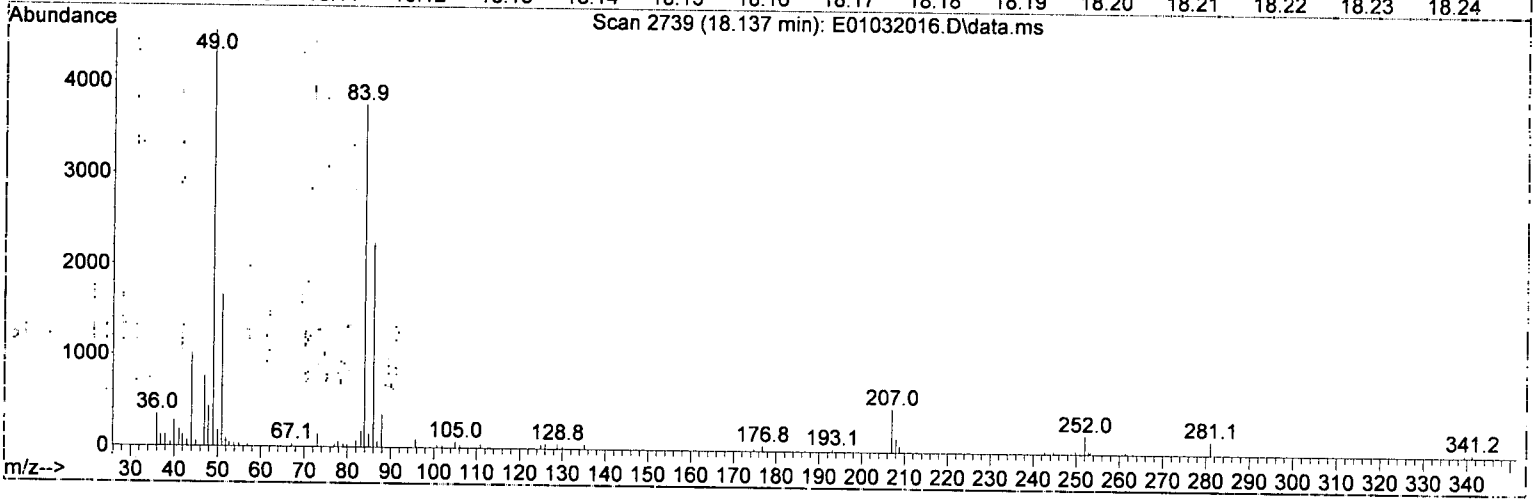
R = 1.16e-001 A*A + 8.10e-001 A - 5.42e-003
Coef of Det (r^2) = 0.985 Curve Fit: Quadratic w(1/a^2)
Method Name: Z:\METHODS\SV5_010320.M
Calibration Table Last Updated: Mon Jan 06 12:20:00 2020

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\REQUANT\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:20:05 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032016.D\data.ms

(92) Benzo(a)pyrene (T)

18.137min (-0.047) 13.60 ng/ml m

response 100

Ion	Exp%	Act%
252.10	100.00	100.00
113.00	11.30	0.00
253.10	21.70	14.72
0.00	0.00	0.00

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A03043

Analysis Included
8270D LL Full List

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed	
0A03043-TUN1	MS Tune	Soil	A19L362	A19L360	1/3/2020	4:14:00PM
0A03043-ICB1	Initial Cal Blank	Soil		A19L360	1/3/2020	5:20:00PM
0A03043-CAL1	Cal Standard	Soil	A20A022	"	1/3/2020	5:56:00PM
0A03043-CAL2	Cal Standard	Soil	A20A023	"	1/3/2020	6:33:00PM
0A03043-CAL3	Cal Standard	Soil	A20A024	"	1/3/2020	7:47:00PM
0A03043-CAL4	Cal Standard	Soil	A20A025	"	1/3/2020	8:24:00PM
0A03043-CAL5	Cal Standard	Soil	A20A026	"	1/3/2020	9:00:00PM
0A03043-CAL6	Cal Standard	Soil	A20A027	"	1/3/2020	9:37:00PM
0A03043-CAL7	Cal Standard	Soil	A20A028	"	1/3/2020	10:13:00PM
0A03043-CAL8	Cal Standard	Soil	A20A029	"	1/3/2020	10:50:00PM
0A03043-CAL9	Cal Standard	Soil	A20A030	"	1/3/2020	11:27:00PM
0A03043-CALA	Cal Standard	Soil	A20A031	"	1/4/2020	12:04:00AM
0A03043-ICV1	Initial Cal Check	Soil	A19I254	"	1/4/2020	1:17:00AM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0A0704** Instrument: **SV-GCMS5**

8270D LL Full List Sequence: **0A03043** Matrix: **Soil**

0A03043-CAL1	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0A03043-CAL2	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0A03043-CAL3	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0A03043-CAL4	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0A03043-CAL5	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0A03043-CAL6	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0A03043-CAL7	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0A03043-CAL8	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0A03043-CAL9	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0A03043-CALA	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic fit compounds.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A03043

Analytes With Quadratic Curve Fits

Qualifier	iMDL	iMRL	Spike Amt	%Difference	OK?	Raise MRL to ?
				———	☐	☐ ———

Analytes listed above have quadratic curve fits. If they are using a weighting otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0A0704** Instrument: **SV-GCMS5**

8270D LL Full List Sequence: **0A03043** Matrix: **Soil**

0A03043-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A03043

Analysis Included
8270D LL Full List

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
0A03043-TUN1	MS Tune	Water	A19L362	A19L360	1/3/2020 4:14:00PM
0A03043-ICB1	Initial Cal Blank	Water		A19L360	1/3/2020 5:20:00PM
0A03043-CAL1	Cal Standard	Water	A20A022	"	1/3/2020 5:56:00PM
0A03043-CAL2	Cal Standard	Water	A20A023	"	1/3/2020 6:33:00PM
0A03043-CAL3	Cal Standard	Water	A20A024	"	1/3/2020 7:47:00PM
0A03043-CAL4	Cal Standard	Water	A20A025	"	1/3/2020 8:24:00PM
0A03043-CAL5	Cal Standard	Water	A20A026	"	1/3/2020 9:00:00PM
0A03043-CAL6	Cal Standard	Water	A20A027	"	1/3/2020 9:37:00PM
0A03043-CAL7	Cal Standard	Water	A20A028	"	1/3/2020 10:13:00PM
0A03043-CAL8	Cal Standard	Water	A20A029	"	1/3/2020 10:50:00PM
0A03043-CAL9	Cal Standard	Water	A20A030	"	1/3/2020 11:27:00PM
0A03043-CALA	Cal Standard	Water	A20A031	"	1/4/2020 12:04:00AM
0A03043-ICV1	Initial Cal Check	Water	A19I254	"	1/4/2020 1:17:00AM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0A0704** Instrument: **SV-GCMS5**

8270D LL Full List Sequence: **0A03043** Matrix: **Water**

0A03043-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A03043-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A03043-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A03043-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A03043-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A03043-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A03043-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A03043-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A03043-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A03043-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic fit compounds.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A03043

Analytes With Quadratic Curve Fits

Qualifier	iMDL	iMRL	Spike Amt	%Difference	OK?	Raise MRL to ?
				———	☐	☐ ———

Analytes listed above have quadratic curve fits. If they are using a weighting otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0A0704** Instrument: **SV-GCMS5**

8270D LL Full List Sequence: **0A03043** Matrix: **Water**

0A03043-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Evaluate Continuing Calibration Report

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032028.D
Acq On : 4 Jan 2020 1:17
Operator : JK/ AMS /DTH
Sample : 0A03043-ICV1
Misc : 1x, A19I254@1000
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:31:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5

1/16/20

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4 (IST	2000.000	2000.000	0.0	104	0.00
2	T	N-Nitrosodimethylamine	1000.000	995.442	0.5	101	0.00
3	T	Pyridine	1000.000	839.856	16.0	84	0.00
4	S	2-Fluorophenol (Surr)	1000.000	1033.751	-3.4	101	0.00
5	S	Phenol-d6(Surr)	1000.000	1039.570	-4.0	101	0.00
6	T	Phenol	1000.000	1030.182	-3.0	101	0.00
7	T	Aniline	1000.000	1006.780	-0.7	99	0.00
8	T	Bis(2-chloroethyl) ether	1000.000	974.678	2.5	100	0.00
9	T	2-Chlorophenol	1000.000	1044.817	-4.5	102	0.00
10	T	1,3-Dichlorobenzene	1000.000	953.763	4.6	99	0.00
11	T	1,4-Dichlorobenzene	1000.000	973.890	2.6	100	0.00
12	T	Benzyl alcohol	1000.000	868.446	13.2	93	0.00
13	T	1,2-Dichlorobenzene	1000.000	970.483	3.0	100	0.00
14	T	2-Methylphenol	1000.000	1034.925	-3.5	99	0.00
15	T	2,2'-Oxybis(1-Chloropropane	1000.000	982.446	1.8	100	0.00
16	T	N-Nitrosodi-n-propylamine	1000.000	1066.152	-6.6	100	0.00
17	T	3+4-Methylphenol	1000.000	964.919	3.5	99	0.00
18	T	Hexachloroethane	1000.000	979.068	2.1	100	0.00
19	S	Nitrobenzene-d5 (Surr)	1000.000	1040.588	-4.1	103	0.00
20	T	Nitrobenzene	1000.000	997.009	0.3	99	0.00
21	I	Naphthalene-d8 (ISTD)	2000.000	2000.000	0.0	104	0.00
22	T	Isophorone	1000.000	1026.631	-2.7	102	0.00
23	T	2-Nitrophenol	1000.000	1029.714	-3.0	101	0.00
24	T	2,4-Dimethylphenol	1000.000	872.271	12.8	84	0.00
25	T	Bis(2-chloroethoxy) methane	1000.000	995.120	0.5	101	0.00
26	T	Benzoic acid	2000.000	1690.486	15.5	95	0.00
27	T	2,4-Dichlorophenol	1000.000	1018.891	-1.9	98	0.00
28	T	1,2,4-Trichlorobenzene	1000.000	980.705	1.9	101	0.00
29	T	Naphthalene	1000.000	982.427	1.8	100	0.00
30	T	4-Chloroaniline	1000.000	964.047	3.6	101	0.00
31	T	Hexachlorobutadiene	1000.000	977.101	2.3	101	0.00
32	T	4-Chloro-3-methylphenol	1000.000	882.050	11.8	91	0.00
33	T	2-Methylnaphthalene	1000.000	1011.233	-1.1	102	0.00
34	T	1-Methylnaphthalene	1000.000	1026.895	-2.7	103	0.00
35	I	Acenaphthene-d10 (ISTD)	2000.000	2000.000	0.0	105	0.00
36	T	Hexachlorocyclopentadiene	1000.000	993.670	0.6	97	0.00
37	T	2,4,6-Trichlorophenol	1000.000	978.449	2.2	98	0.00
38	T	2,4,5-Trichlorophenol	1000.000	948.446	5.2	95	0.00
39	T	1,1'-Biphenyl	1000.000	1007.833	-0.8	103	0.00
40	S	2-Fluorobiphenyl (Surr)	1000.000	1020.035	-2.0	105	0.00
41	T	2-Chloronaphthalene	1000.000	979.902	2.0	102	0.00
42	T	2-Nitroaniline	1000.000	1046.493	-4.6	106	0.00
43	T	2,6-Dimethylnaphthalene	1000.000	1013.207	-1.3	102	0.00
44	T	1,4-Dinitrobenzene	1000.000	1026.527	-2.7	102	0.00
45	T	Dimethyl phthalate	1000.000	1033.648	-3.4	102	0.00
46	T	1,3-Dinitrobenzene	1000.000	1014.526	-1.5	101	0.00
47	T	2,6-Dinitrotoluene	1000.000	1025.687	-2.6	100	0.00
48	T	1,2-Dinitrobenzene	1000.000	935.635	6.4	99	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032028.D
Acq On : 4 Jan 2020 1:17
Operator : JK/ AMS /DTH
Sample : 0A03043-ICV1
Misc : 1X, A19I254@1000
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth: SV5_AQUISITION.M

Quant Time: Jan 06 12:31:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Acenaphthylene	1000.000	1064.455	-6.4	104	0.00
50	T	3-Nitroaniline	1000.000	895.838	10.4	100	0.00
51	T	Acenaphthene	1000.000	982.446	1.8	101	0.00
52	T	2,4-Dinitrophenol	1000.000	893.226	10.7	104	0.00
53	T	4-Nitrophenol	1000.000	865.477	13.5	95	0.00
54	T	2,4-Dinitrotoluene	1000.000	989.375	1.1	101	0.00
55	T	Dibenzofuran	1000.000	998.442	0.2	103	0.00
56	T	2,3,5,6-Tetrachlorophenol	1000.000	1047.330	-4.7	101	0.00
57	T	2,3,4,6-Tetrachlorophenol	1000.000	1015.851	-1.6	103	0.00
58	T	Diethyl phthalate	1000.000	1048.517	-4.9	102	0.00
59	T	2,3,5-Trimethylnaphthalene	1000.000	1027.227	-2.7	101	0.00
60	T	Fluorene	1000.000	1007.129	-0.7	100	0.00
61	T	4-Chlorophenyl phenyl ether	1000.000	994.051	0.6	102	0.00
62	T	4-Nitroaniline	1000.000	946.665	5.3	103	0.00
63	T	4,6-Dinitro-2-methylphenol	1000.000	944.828	5.5	103	0.00
64	I	Phenanthrene-d10 (ISTD)	2000.000	2000.000	0.0	106	0.00
65	T	N-Nitrosodiphenylamine	1000.000	972.134	2.8	100	0.00
66	T	Azobenzene (1,2-DPH)	1000.000	995.351	0.5	101	0.00
67	S	2,4,6-Tribromophenol (Surr)	1000.000	998.662	0.1	102	0.00
68	T	4-Bromophenyl phenyl ether	1000.000	1009.495	-0.9	103	0.00
69	T	Hexachlorobenzene	1000.000	973.112	2.7	103	0.00
70	T	Pentachlorophenol (PCP)	1000.000	945.898	5.4	95	0.00
71	T	Phenanthrene	1000.000	972.186	2.8	101	0.00
72	T	Anthracene	1000.000	1036.733	-3.7	101	0.00
73	T	Carbazole	1000.000	991.001	0.9	101	0.00
74	T	Di-n-butyl phthalate	1000.000	1017.110	-1.7	103	0.00
75	T	Fluoranthene	1000.000	1057.723	-5.8	101	0.00
76	T	Benzidine	2000.000	1783.651	10.8	90	0.00
77	T	Pyrene	1000.000	1049.995	-5.0	101	0.00
78	I	Chrysene-d12 (ISTD)	2000.000	2000.000	0.0	103	0.00
79	S	Terphenyl-d14 (Surr)	1000.000	1029.918	-3.0	103	0.00
80	T	Butyl benzyl phthalate	1000.000	1020.558	-2.1	105	0.00
81	T	Bis(2-ethylhexyl) adipate	1000.000	1012.913	-1.3	104	0.00
82	T	3,3-Dichlorobenzidine	2000.000	1901.246	4.9	90	0.00
83	T	Benz(a)anthracene	1000.000	1014.415	-1.4	101	0.00
84	T	Chrysene	1000.000	977.108	2.3	101	0.00
85	T	Bis(2-ethylhexyl) phthalate	1000.000	999.808	0.0	102	0.00
86	I	Perylene-d12 (ISTD)	2000.000	2000.000	0.0	102	0.00
87	T	Di-n-octyl phthalate	1000.000	1047.539	-4.8	108	0.00
88	T	Benzo(b)fluoranthene	1000.000	1048.020	-4.8	100	0.00
89	T	Benzo(k)fluoranthene	1000.000	1022.198	-2.2	98	0.00
90	T	Benzo(b+k)fluoranthene	2000.000	2054.270	-2.7	99	0.00
91	T	Benzo(e)pyrene	1000.000	1042.641	-4.3	101	0.00
92	T	Benzo(a)pyrene	1000.000	1096.595	-9.7	100	0.00
93	T	Perylene	1000.000	1206.111	-20.6	119	0.00
94	I	Dibenz(a,h)Anthrcene-d14 (I	2000.000	2000.000	0.0	104	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032028.D
Acq On : 4 Jan 2020 1:17
Operator : JK/ AMS /DTH
Sample : 0A03043-ICV1
Misc : 1x, A19I254@1000
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:31:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
95 T	Indeno(1,2,3-cd)pyrene	1000.000	972.417	2.8	100	0.00
96 T	Dibenz(a,h)anthracene	1000.000	982.677	1.7	100	0.00
97 T	Benzo(g,h,i)perylene	1000.000	1062.123	-6.2	100	0.00

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

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032013.D
Acq On : 3 Jan 2020 16:14
Operator : JK/ AMS /DTH
Sample : 0A03043-TUN1
Misc : 1x, A19L362 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Jan 06 09:08:26 2020
Quant Method : Z:\METHODS\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Jan 02 08:51:08 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JR 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.561	150	181250	2.00	ug/mL	0.00
2) Naphthalene-d8	7.818	136	409333	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.593	162	196728	2.00	ug/mL	0.00
5) Phenanthrene-d10	11.107	188	336404	2.00	ug/mL	0.00
11) Chrysene-d12	14.787	240	282223	2.00	ug/mL	0.00
12) Perylene-d12	16.846	264	231898	2.00	ug/mL	-0.01
13) Dibenz(a,h)anthracene-...	18.076	292	188278	2.00	ug/mL	-0.01
Target Compounds						Qvalue
4) Pentachlorophenol	10.925	266	802026	43.17	ug/mL	90
6) DFTPP	11.396	442	1124638	41.41	ug/mL	92
7) Benzidine	12.562	184	5161277	43.13	ug/mL	93
8) 4,4-DDE	12.808	TIC	44175	No Calib		
9) 4,4-DDD	13.311	TIC	25354	No Calib		
10) 4,4-DDT	13.862	TIC	14406342	41.76	ug/mL	96

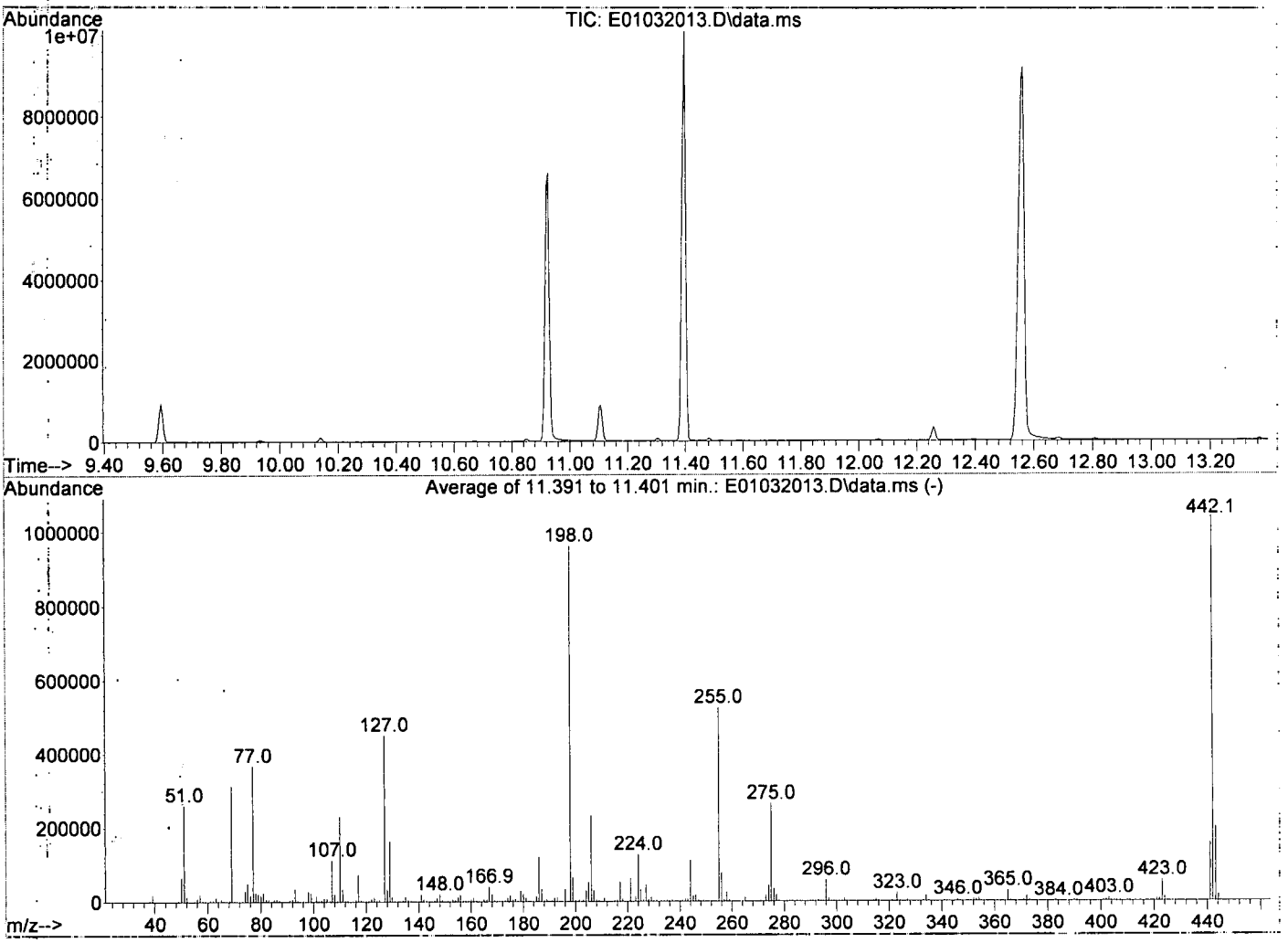
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032013.D
Acq On : 3 Jan 2020 16:14
Operator : JK/ AMS /DTH
Sample : 0A03043-TUN1
Misc : 1x, A19L362 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : Z:\METHODS\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Thu Jan 02 08:51:08 2020

JR 1/6/20



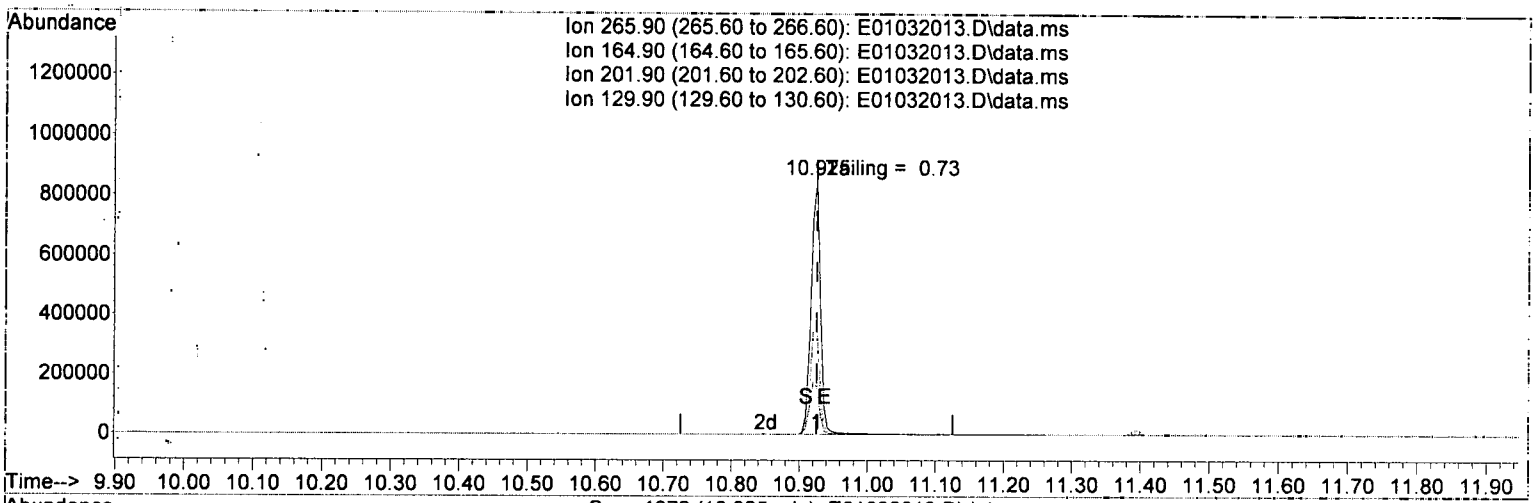
AutoFind: Scans 1459, 1460, 1461; Background Corrected with Scan 1454

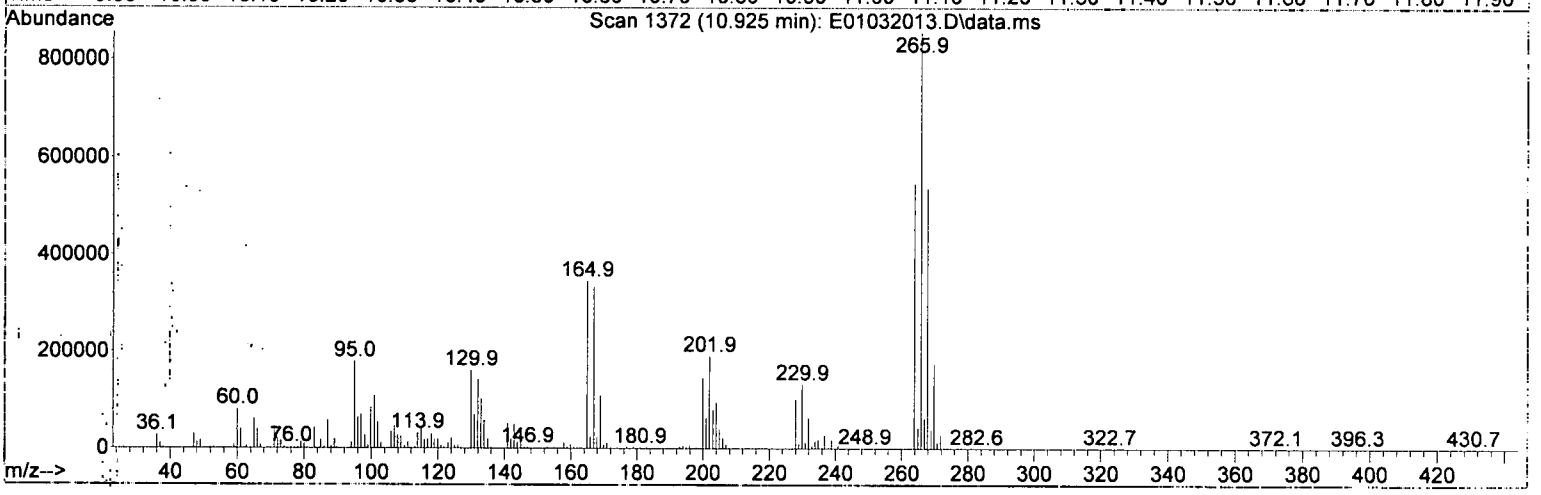
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.9	5805	PASS
69	198	0.01	100	32.5	312038	PASS
70	69	0.00	2	0.5	1530	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	961216	PASS
199	198	5	9	6.7	64667	PASS
365	198	1	100	3.1	29421	PASS
441	443	0.01	150	78.7	157419	PASS
442	198	0.10	200	108.3	1040875	PASS
443	442	15	24	19.2	199995	PASS

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032013.D
Acq On : 3 Jan 2020 16:14
Operator : JK/ AMS /DTH
Sample : 0A03043-TUN1
Misc : 1x, A19L362 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Jan 06 09:08:26 2020
Quant Method : Z:\METHODS\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Jan 02 08:51:08 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032013.D\data.ms

(4) Pentachlorophenol

10.925min (-0.000) 43.17 ug/mL

response 802026

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	47.60	40.35
201.90	23.20	22.30
129.90	27.10	18.79

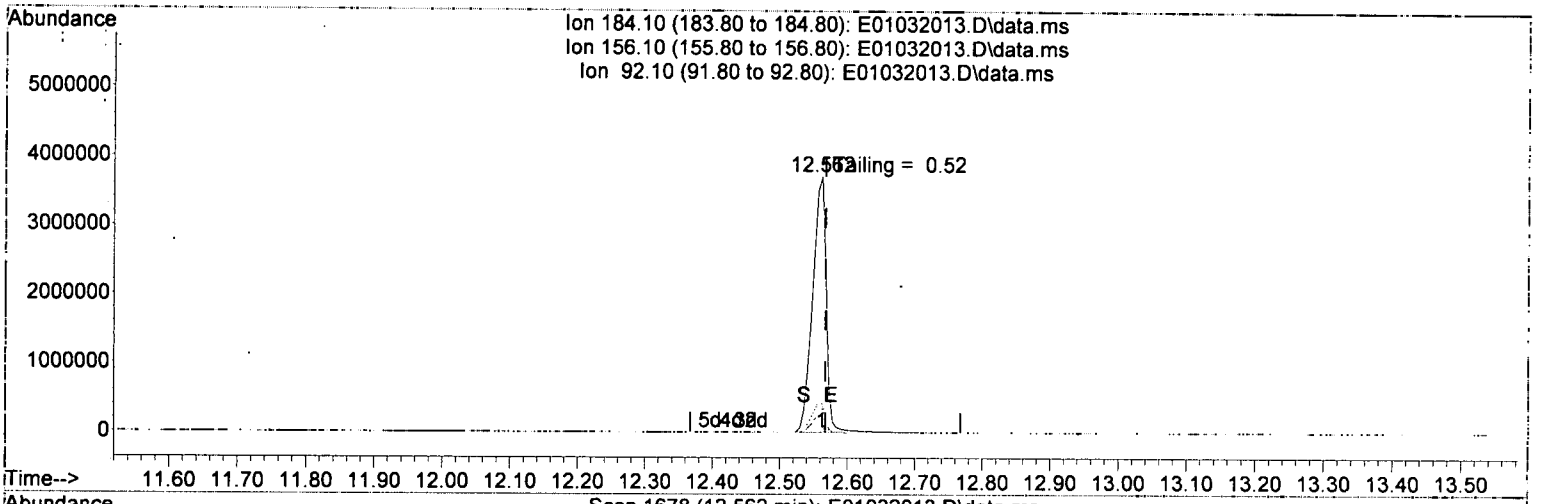
JK 1/6/20

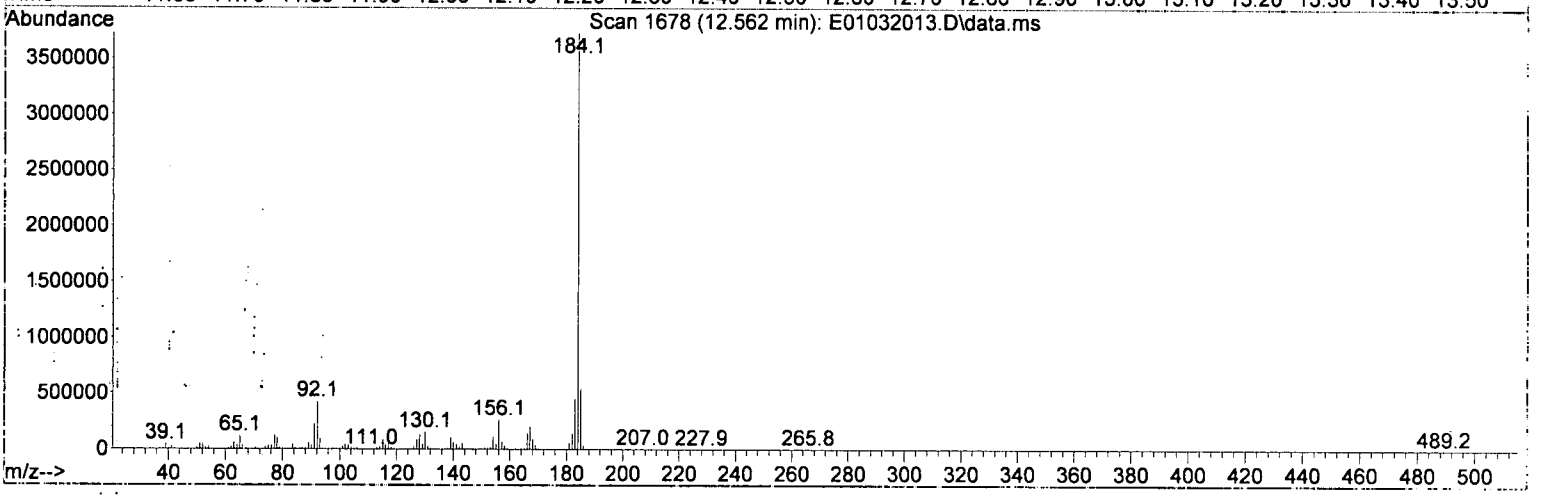
07/05/2020 Arcadis U.S., Inc. - EA2LLC - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1109 of 1443

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032013.D
Acq On : 3 Jan 2020 16:14
Operator : JK/ AMS /DTH
Sample : 0A03043-TUN1
Misc : 1x, A19L362 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Jan 06 09:08:26 2020
Quant Method : Z:\METHODS\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Jan 02 08:51:08 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032013.D\data.ms

(7) Benzidine

12.562min (-0.005) 43.13 ug/mL

response 5161277

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.11
92.10	8.20	11.49
0.00	0.00	0.00

1/6/20

DDT Breakdown Check (Validated 5/1/2013)

From:
0A03043-TUN1
SV-GCMS5

First Column Area Counts		Percent Breakdown	
DDE	44175		
DDD	25354		
DDT	14406342	0.48	PASS

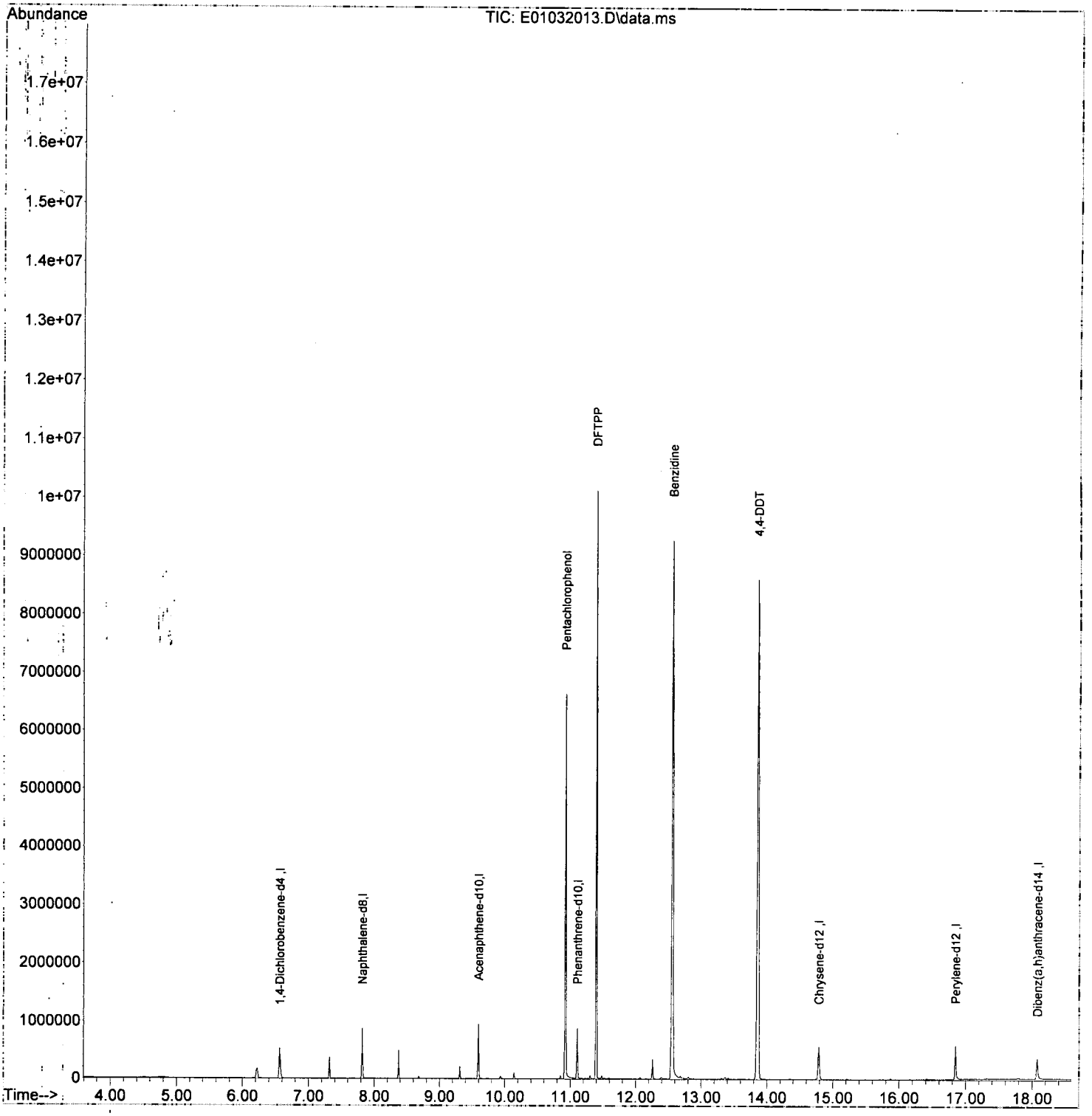
JJ2 11/6/20

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032013.D
Acq On : 3 Jan 2020 16:14
Operator : JK/ AMS /DTH
Sample : 0A03043-TUN1
Misc : 1x, A19L362 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Jan 06 09:08:26 2020
Quant Method : Z:\METHODS\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Jan 02 08:51:08 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032015.D
Acq On : 3 Jan 2020 17:20
Operator : JK/ AMS /DTH
Sample : 0A03043-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:52 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JK 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.573	152	506513	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.819	136	2051353	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.595	162	904948	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1488437	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.853	240	1275480	2000.00	ng/ml	-0.01
86) Perylene-d12 (ISTD)	18.324	264	1106688	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.710	292	808792	2000.00	ng/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	0.000	112	0	0.00	ng/ml	
5) Phenol-d6(Surr)	6.241	99	99	0.24	ng/ml	0.02
19) Nitrobenzene-d5 (Surr)	7.103	82	165	0.46	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
67) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
79) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.118	74	78	N.D.		
3) Pyridine	4.086	79	51	N.D.		
6) Phenol	6.263	94	198	N.D.		
7) Aniline	6.279	93	102	N.D.		
8) Bis(2-chloroethyl) ether	6.279	93	102	N.D.		
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	0.000		0	N.D.		
12) Benzyl alcohol	6.755	108	119	31.77	ng/ml#	43
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	6.835	107	83	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	6.857	45	55	N.D.		
16) N-Nitrosodi-n-propylamine	6.964	70	64	N.D.		
17) 3+4-Methylphenol	6.974	107	61	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	7.113	77	71	N.D.		
22) Isophorone	7.349	82	55	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	7.504	122	164	N.D.		
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.		
26) Benzoic acid	0.000		0	N.D.		
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	7.841	128	136	N.D.		
30) 4-Chloroaniline	0.000		0	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	0.000		0	N.D.		
33) 2-Methylnaphthalene	8.541	142	125	N.D.		
34) 1-Methylnaphthalene	0.000		0	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	0.000		0	N.D.		
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	0.000		0	N.D.		

Archive, Casco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1113 of 1443

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032015.D
Acq On : 3 Jan 2020 17:20
Operator : JK/ AMS /DTH
Sample : 0A03043-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:52 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

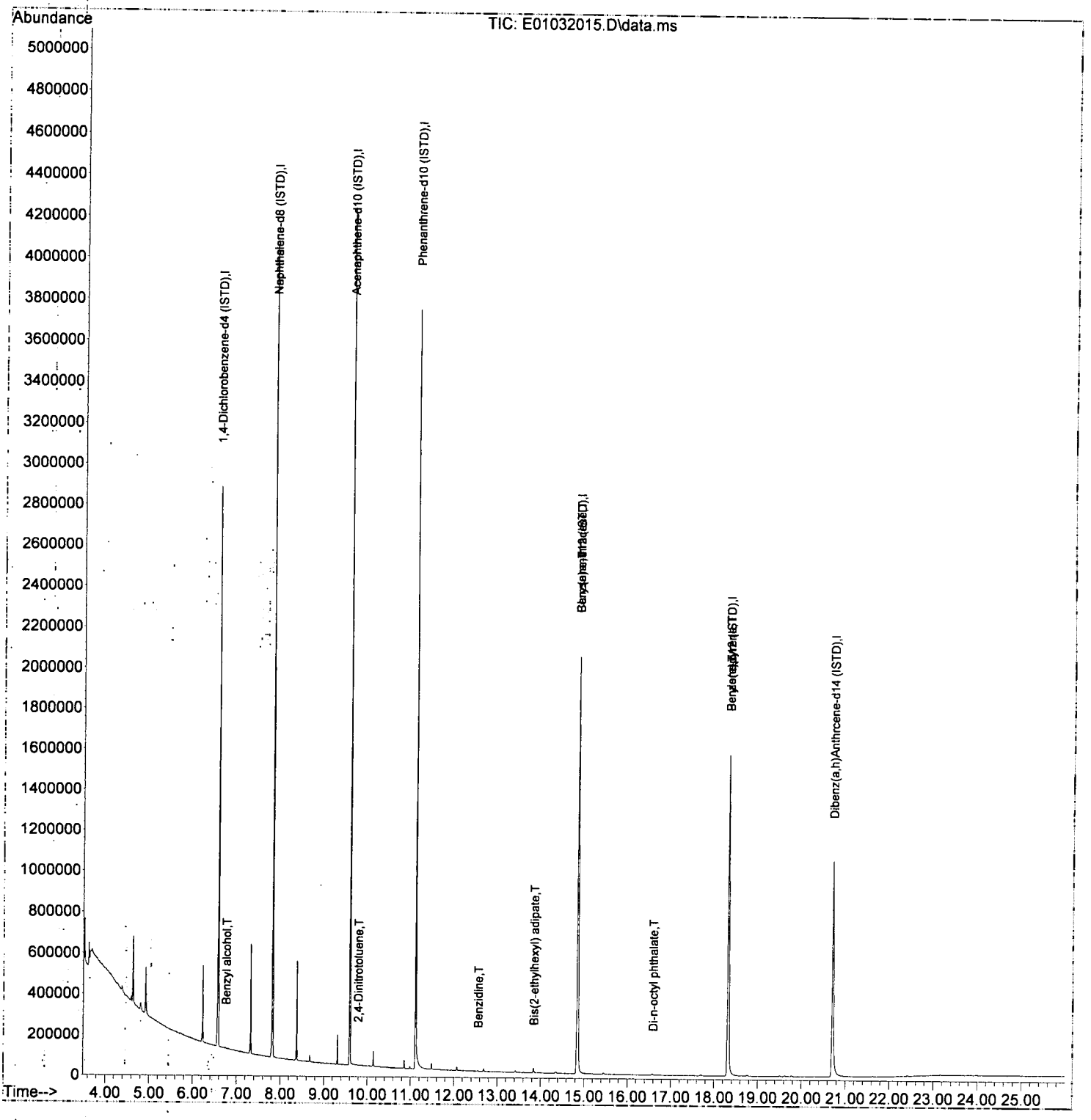
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,4-Dinitrobenzene	0.000		0	N.D.	
45) Dimethyl phthalate	9.312	163	124	N.D.	
46) 1,3-Dinitrobenzene	0.000		0	N.D.	
47) 2,6-Dinitrotoluene	0.000		0	N.D.	
48) 1,2-Dinitrobenzene	0.000		0	N.D.	
49) Acenaphthylene	0.000		0	N.D.	
50) 3-Nitroaniline	9.600	138	178	N.D.	
51) Acenaphthene	9.600	153	209	N.D.	
52) 2,4-Dinitrophenol	0.000		0	N.D.	
53) 4-Nitrophenol	0.000		0	N.D.	
54) 2,4-Dinitrotoluene	9.782	165	159	31.51 ng/ml#	53
55) Dibenzofuran	0.000		0	N.D.	
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.	
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
58) Diethyl phthalate	10.028	149	90	N.D.	
59) 2,3,5-Trimethylnaphtha...	10.125	170	168	N.D.	
60) Fluorene	0.000		0	N.D.	
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
62) 4-Nitroaniline	0.000		0	N.D.	
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
65) N-Nitrosodiphenylamine	0.000		0	N.D.	
66) Azobenzene (1,2-DPH)	10.306	77	117	N.D.	
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) Pentachlorophenol (PCP)	0.000		0	N.D.	
71) Phenanthrene	11.109	178	720	N.D.	
72) Anthracene	11.109	178	695	N.D.	
73) Carbazole	0.000		0	N.D.	
74) Di-n-butyl phthalate	11.686	149	65	N.D.	
75) Fluoranthene	0.000		0	N.D.	
76) Benzidine	12.553	184	1185	182.22 ng/ml	86
77) Pyrene	0.000		0	N.D.	
80) Butyl benzyl phthalate	0.000		0	N.D.	
81) Bis(2-ethylhexyl) adipate	13.842	129	5637	91.02 ng/ml	93
82) 3,3-Dichlorobenzidine	14.815	252	52	Below Cal #	4
83) Benz(a)anthracene	14.853	228	3096	4.52 ng/ml	71
84) Chrysene	14.853	228	3081	4.51 ng/ml	67
85) Bis(2-ethylhexyl) phth...	0.000		0	N.D.	
87) Di-n-octyl phthalate	16.591	149	72	62.47 ng/ml#	1
88) Benzo(b)fluoranthene	0.000		0	N.D.	
89) Benzo(k)fluoranthene	0.000		0	N.D.	
90) Benzo(b+k)fluoranthene	0.000		0	N.D.	
91) Benzo(e)pyrene	18.324	252	3856	14.48 ng/ml#	29
92) Benzo(a)pyrene	0.000		0	N.D.	
93) Perylene	18.324	252	3856	7.19 ng/ml	70
95) Indeno(1,2,3-cd)pyrene	20.704	276	364	N.D.	
96) Dibenz(a,h)anthracene	20.693	278	180	N.D.	
97) Benzo(g,h,i)perylene	0.000		0	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032015.D
Acq On : 3 Jan 2020 17:20
Operator : JK/ AMS /DTH
Sample : 0A03043-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:52 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032015.D
Acq On : 3 Jan 2020 17:20
Operator : JK/ AMS /DTH
Sample : 0A03043-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Final Reagent

Quant Time: Jan 06 12:31:23 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JK 1/6/20

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4...	6.573	152	506513	2000.00 ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.819	136	2051353	2000.00 ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.595	162	904948	2000.00 ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1488437	2000.00 ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.853	240	1275480	2000.00 ng/ml	-0.01
86) Perylene-d12 (ISTD)	18.324	264	1106688	2000.00 ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.710	292	808792	2000.00 ng/ml	-0.01
System Monitoring Compounds					
4) 2-Fluorophenol (Surr)	0.000	112	0	0.00 ng/ml	
5) Phenol-d6(Surr)	6.241	99	99	0.24 ng/ml	0.02
19) Nitrobenzene-d5 (Surr)	7.103	82	165	0.47 ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00 ng/ml	
67) 2,4,6-Tribromophenol (...	0.000	330	0	0.00 ng/ml	
79) Terphenyl-d14 (Surr)	0.000	244	0	0.00 ng/ml	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	4.118	74	78	N.D.	
3) Pyridine	4.086	79	51	N.D.	
6) Phenol	6.263	94	198	N.D.	
7) Aniline	6.279	93	102	N.D.	
8) Bis(2-chloroethyl) ether	6.279	93	102	N.D.	
9) 2-Chlorophenol	0.000		0	N.D.	
10) 1,3-Dichlorobenzene	0.000		0	N.D.	
11) 1,4-Dichlorobenzene	0.000		0	N.D.	
12) Benzyl alcohol	6.755	108	119	47.31 ng/ml#	43
13) 1,2-Dichlorobenzene	0.000		0	N.D.	
14) 2-Methylphenol	6.835	107	83	N.D.	
15) 2,2'-Oxybis(1-Chloropr...	6.857	45	55	N.D.	
16) N-Nitrosodi-n-propylamine	6.964	70	64	N.D.	
17) 3+4-Methylphenol	6.974	107	61	9.30 ng/ml#	1
18) Hexachloroethane	0.000		0	N.D.	
20) Nitrobenzene	7.113	77	71	N.D.	
22) Isophorone	7.349	82	55	7.53 ng/ml	60
23) 2-Nitrophenol	0.000		0	N.D.	
24) 2,4-Dimethylphenol	7.504	122	164	11.62 ng/ml#	34
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.	
26) Benzoic acid	0.000		0	N.D.	
27) 2,4-Dichlorophenol	0.000		0	N.D.	
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
29) Naphthalene	7.841	128	136	N.D.	
30) 4-Chloroaniline	0.000		0	N.D.	
31) Hexachlorobutadiene	0.000		0	N.D.	
32) 4-Chloro-3-methylphenol	0.000		0	N.D.	
33) 2-Methylnaphthalene	8.541	142	125	N.D.	
34) 1-Methylnaphthalene	0.000		0	N.D.	
36) Hexachlorocyclopentadiene	0.000		0	N.D.	
37) 2,4,6-Trichlorophenol	0.000		0	N.D.	
38) 2,4,5-Trichlorophenol	0.000		0	N.D.	
39) 1,1'-Biphenyl	0.000		0	N.D.	
41) 2-Chloronaphthalene	0.000		0	N.D.	
42) 2-Nitroaniline	0.000		0	N.D.	
43) 2,6-Dimethylnaphthalene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032015.D
Acq On : 3 Jan 2020 17:20
Operator : JK/ AMS /DTH
Sample : 0A03043-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:31:23 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5

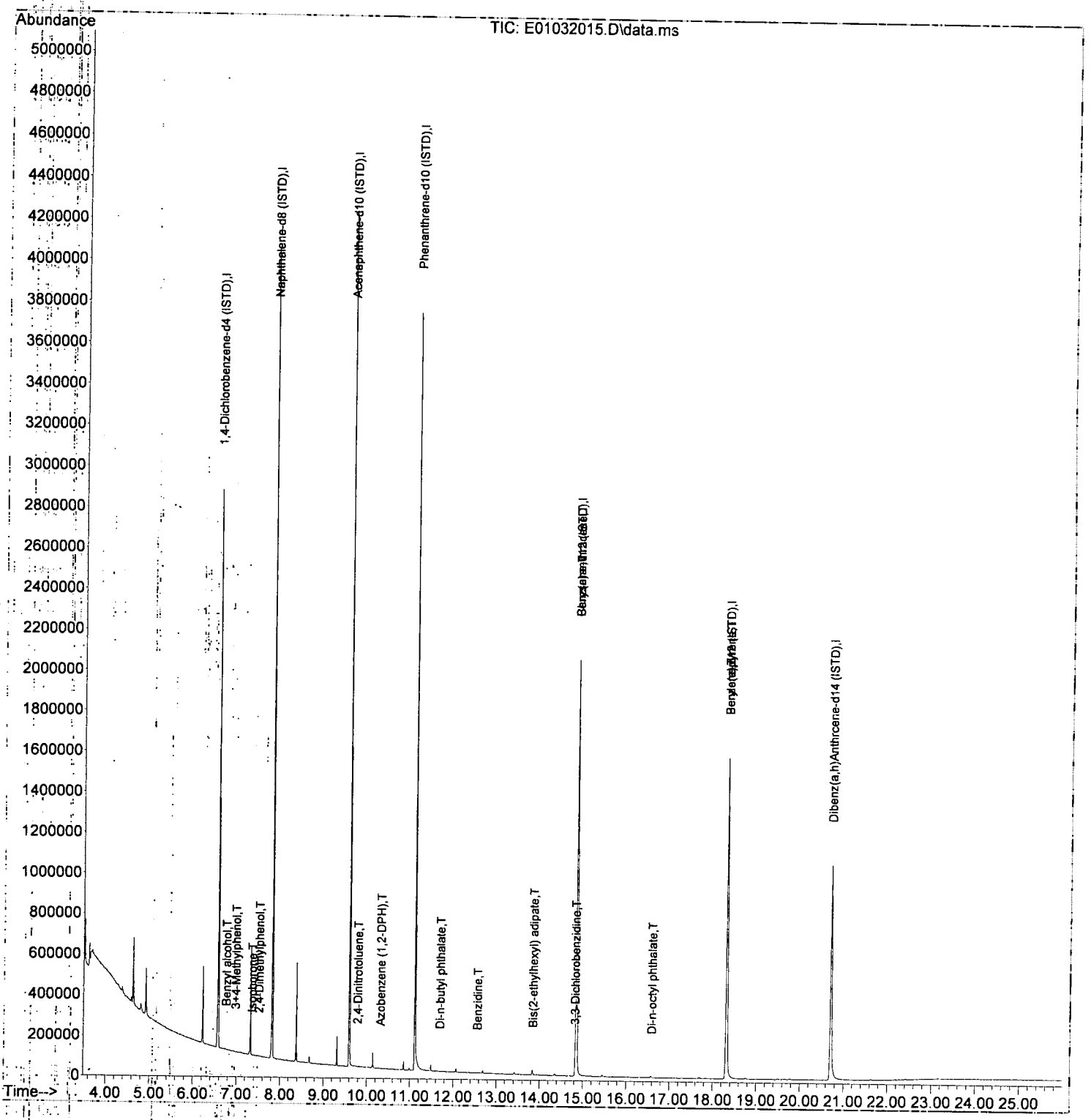
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,4-Dinitrobenzene	0.000		0	N.D.	
45) Dimethyl phthalate	9.312	163	124	N.D.	
46) 1,3-Dinitrobenzene	0.000		0	N.D.	
47) 2,6-Dinitrotoluene	0.000		0	N.D.	
48) 1,2-Dinitrobenzene	0.000		0	N.D.	
49) Acenaphthylene	0.000		0	N.D.	
50) 3-Nitroaniline	9.600	138	178	N.D.	
51) Acenaphthene	9.600	153	209	N.D.	
52) 2,4-Dinitrophenol	0.000		0	N.D.	
53) 4-Nitrophenol	0.000		0	N.D.	
54) 2,4-Dinitrotoluene	9.782	165	159	34.95 ng/ml#	53
55) Dibenzofuran	0.000		0	N.D.	
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.	
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
58) Diethyl phthalate	10.028	149	90	N.D.	
59) 2,3,5-Trimethylnaphtha...	10.125	170	168	N.D.	
60) Fluorene	0.000		0	N.D.	
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
62) 4-Nitroaniline	0.000		0	N.D.	
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
65) N-Nitrosodiphenylamine	0.000		0	N.D.	
66) Azobenzene (1,2-DPH)	10.306	77	117	9.95 ng/ml#	45
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) Pentachlorophenol (PCP)	0.000		0	N.D.	
71) Phenanthrene	11.109	178	720	N.D.	
72) Anthracene	11.109	178	695	N.D.	
73) Carbazole	0.000		0	N.D.	
74) Di-n-butyl phthalate	11.686	149	65	27.11 ng/ml	78
75) Fluoranthene	0.000		0	N.D.	
76) Benzidine	12.553	184	1185	174.42 ng/ml	86
77) Pyrene	0.000		0	N.D.	
80) Butyl benzyl phthalate	0.000		0	N.D.	
81) Bis(2-ethylhexyl) adipate	13.842	129	5637	63.52 ng/ml	93
82) 3,3-Dichlorobenzidine	14.815	252	52	48.15 ng/ml#	4
83) Benz(a)anthracene	14.853	228	3096	4.35 ng/ml	71
84) Chrysene	14.853	228	3081	4.36 ng/ml	67
85) Bis(2-ethylhexyl) phth...	0.000		0	N.D.	
87) Di-n-octyl phthalate	16.591	149	72	84.20 ng/ml#	1
88) Benzo(b)fluoranthene	0.000		0	N.D.	
89) Benzo(k)fluoranthene	0.000		0	N.D.	
90) Benzo(b+k)fluoranthene	0.000		0	N.D.	
91) Benzo(e)pyrene	18.324	252	3856	14.88 ng/ml#	29
92) Benzo(a)pyrene	0.000		0	N.D.	
93) Perylene	18.324	252	3856	7.23 ng/ml	70
95) Indeno(1,2,3-cd)pyrene	20.704	276	364	N.D.	
96) Dibenz(a,h)anthracene	20.693	278	180	N.D.	
97) Benzo(g,h,i)perylene	0.000		0	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032015.D
Acq On : 3 Jan 2020 17:20
Operator : JK/ AMS /DTH
Sample : 0A03043-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:31:23 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:58 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JK 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.579	152	475411	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.819	136	1895566	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.595	162	834569	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1365527	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.848	240	1180641	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.319	264	1047994	2000.00	ng/ml	-0.01
94) Dibenz(a,h)Anthrcene-d...	20.710	292	761954	2000.00	ng/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.380	112	4589	15.15	ng/ml	0.01
5) Phenol-d6(Surr)	6.231	99	6058	15.50	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.113	82	5659	16.90	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.905	172	12787	20.78	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.397	330	265	35.08	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.879	244	8728	16.43	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	~~4.097~~	~~74~~	~~262~~	N.D.		See MJ
3) Pyridine	~~4.145~~	~~79~~	~~58~~	N.D.		See MJ
6) Phenol	6.242	94	7580	17.12	ng/ml	92
7) Aniline	6.268	93	7273	14.55	ng/ml	92
8) Bis(2-chloroethyl) ether	6.322	93	7319	19.98	ng/ml	91
9) 2-Chlorophenol	6.386	128	5092	15.44	ng/ml	84
10) 1,3-Dichlorobenzene	6.525	146	7426	20.06	ng/ml	97
11) 1,4-Dichlorobenzene	6.595	146	7553	19.99	ng/ml	88
12) Benzyl alcohol	6.728	108	668	35.06	ng/ml#	65
13) 1,2-Dichlorobenzene	6.744	146	7137	19.97	ng/ml	99
14) 2-Methylphenol	6.814	107	3477	13.47	ng/ml	94
15) 2,2'-Oxybis(1-Chloropr...	6.830	45	10207	21.08	ng/ml	86
16) N-Nitrosodi-n-propylamine	6.958	70	3602	15.42	ng/ml	94
17) 3+4-Methylphenol	6.964	107	3892	12.24	ng/ml	97
18) Hexachloroethane	7.071	117	2508	18.44	ng/ml	92
20) Nitrobenzene	7.129	77	6160	18.09	ng/ml	88
22) Isophorone	7.359	82	8585	14.22	ng/ml	98
23) 2-Nitrophenol	7.445	139	1482	30.39	ng/ml	90
24) 2,4-Dimethylphenol	7.482	122	2442	9.78	ng/ml	86
25) Bis(2-chloroethoxy) me...	7.568	93	8235	19.74	ng/ml	96
26) Benzoic acid	7.536	105	55	960.46	ng/ml#	1
27) 2,4-Dichlorophenol	7.686	162	2484	19.17	ng/ml	93
28) 1,2,4-Trichlorobenzene	7.766	180	5710	20.22	ng/ml	94
29) Naphthalene	7.841	128	21461	21.35	ng/ml	99
30) 4-Chloroaniline	7.894	127	5210	15.02	ng/ml	92
31) Hexachlorobutadiene	7.975	225	2836	20.28	ng/ml	93
32) 4-Chloro-3-methylphenol	8.402	107	266	37.61	ng/ml#	1
33) 2-Methylnaphthalene	8.536	142	12880	19.97	ng/ml	98
34) 1-Methylnaphthalene	8.638	142	11803	19.18	ng/ml	97
36) Hexachlorocyclopentadiene	8.707	237	1122	21.59	ng/ml	93
37) 2,4,6-Trichlorophenol	8.830	196	915	30.92	ng/ml	91
38) 2,4,5-Trichlorophenol	~~8.873~~	~~196~~	~~621~~	~~32.25~~	~~ng/ml~~	~~93~~ See MJ
39) 1,1'-Biphenyl	9.007	154	13879	19.55	ng/ml	99
41) 2-Chloronaphthalene	9.028	162	10638	20.17	ng/ml	93
42) 2-Nitroaniline	9.130	138	1248	34.65	ng/ml	82
43) 2,6-Dimethylnaphthalene	9.167	156	9694	18.86	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:58 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

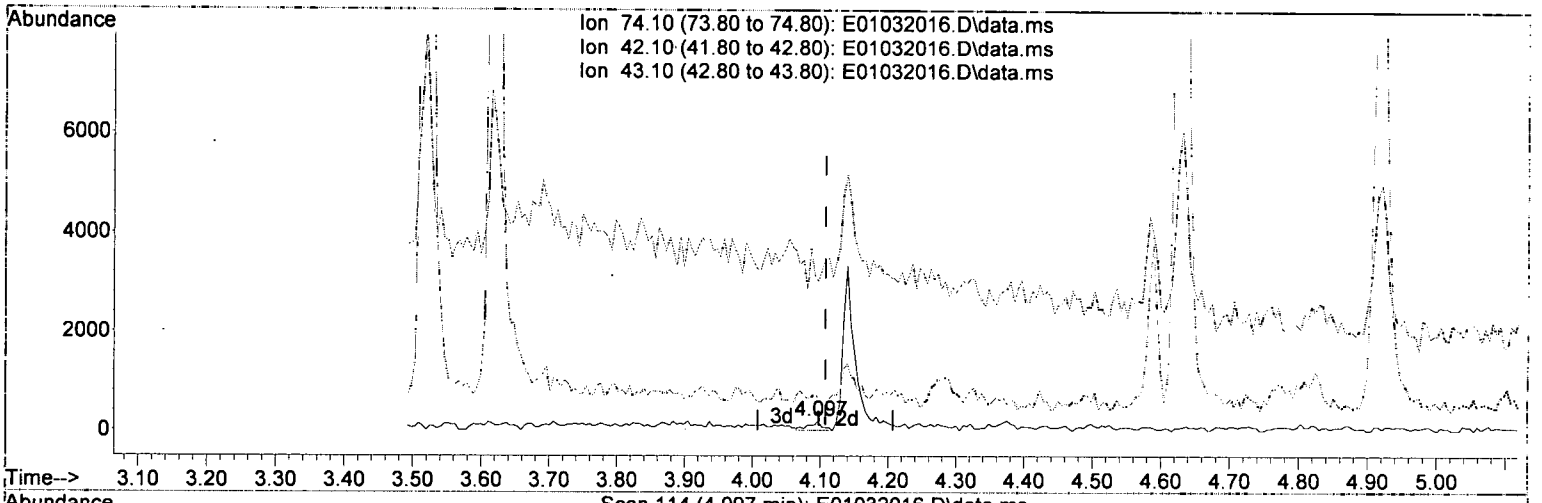
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,4-Dinitrobenzene	9.264	168	392	35.20	ng/ml#	21
45) Dimethyl phthalate	9.306	163	8447	15.65	ng/ml	97
46) 1,3-Dinitrobenzene	9.349	168	564	6.21	ng/ml	80
47) 2,6-Dinitrotoluene	9.370	165	883	6.89	ng/ml	65
48) 1,2-Dinitrobenzene	9.424	168	460	7.82	ng/ml#	1
49) Acenaphthylene	9.451	152	12812	16.12	ng/ml	97
50) 3-Nitroaniline	9.547	138	878	6.25	ng/ml	90
51) Acenaphthene	9.627	153	11327	20.48	ng/ml	96
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	9.750	139	67	86.07	ng/ml#	1
54) 2,4-Dinitrotoluene	9.788	165	1133	37.47	ng/ml	88
55) Dibenzofuran	9.804	168	13845	19.27	ng/ml#	49
56) 2,3,5,6-Tetrachlorophenol	9.900	232	296	44.96	ng/ml#	53
57) 2,3,4,6-Tetrachlorophenol	9.937	232	387	34.41	ng/ml#	41
58) Diethyl phthalate	10.023	149	8015	14.92	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.012	170	8497	18.71	ng/ml	99
60) Fluorene	10.151	166	9806	17.22	ng/ml	98
61) 4-Chlorophenyl phenyl ...	10.146	204	4448	16.96	ng/ml	90
62) 4-Nitroaniline	10.173	138	1015	21.23	ng/ml	88
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	10.264	169	5776	13.41	ng/ml	95
66) Azobenzene (1,2-DPH)	10.307	77	7231	13.39	ng/ml	89
68) 4-Bromophenyl phenyl e...	10.643	248	2201	16.68	ng/ml	76
69) Hexachlorobenzene	10.724	284	2801	19.41	ng/ml	91
70) Pentachlorophenol (PCP)	0.000		0	N.D		
71) Phenanthrene	11.130	178	16675	21.65	ng/ml	99
72) Anthracene	11.184	178	12067	16.41	ng/ml	97
73) Carbazole	11.344	167	8650	13.41	ng/ml	96
74) Di-n-butyl phthalate	11.686	149	7511	9.55	ng/ml	96
75) Fluoranthene	12.392	202	11112	15.13	ng/ml	95
76) Benzidine	12.548	184	3267	188.15	ng/ml	90
77) Pyrene	12.681	202	12007	15.72	ng/ml	94
80) Butyl benzyl phthalate	13.676	149	1933	66.23	ng/ml	88
81) Bis(2-ethylhexyl) adipate	13.842	129	7074	96.50	ng/ml	96
82) 3,3-Dichlorobenzidine	14.794	252	2650	Below Cal		91
83) Benz(a)anthracene	14.831	228	12605	19.87	ng/ml	97
84) Chrysene	14.906	228	12786	20.20	ng/ml	99
85) Bis(2-ethylhexyl) phth...	14.987	149	2425	68.66	ng/ml	94
87) Di-n-octyl phthalate	16.639	149	2915	67.18	ng/ml	88
88) Benzo(b)fluoranthene	17.404	252	6341	20.68	ng/ml	89
89) Benzo(k)fluoranthene	17.468	252	6199	20.99	ng/ml	93
90) Benzo(b+k)fluoranthene	17.468	252	13382	40.36	ng/ml	93
91) Benzo(e)pyrene	18.057	252	7017	20.50	ng/ml	97
92) Benzo(a)pyrene	18.174	252	3690	20.22	ng/ml	99
93) Perylene	18.378	252	9812	19.32	ng/ml	96
95) Indeno(1,2,3-cd)pyrene	20.704	276	8577	19.19	ng/ml	44
96) Dibenz(a,h)anthracene	20.774	278	7692	18.25	ng/ml	96
97) Benzo(g,h,i)perylene	21.234	276	6378	15.25	ng/ml	85

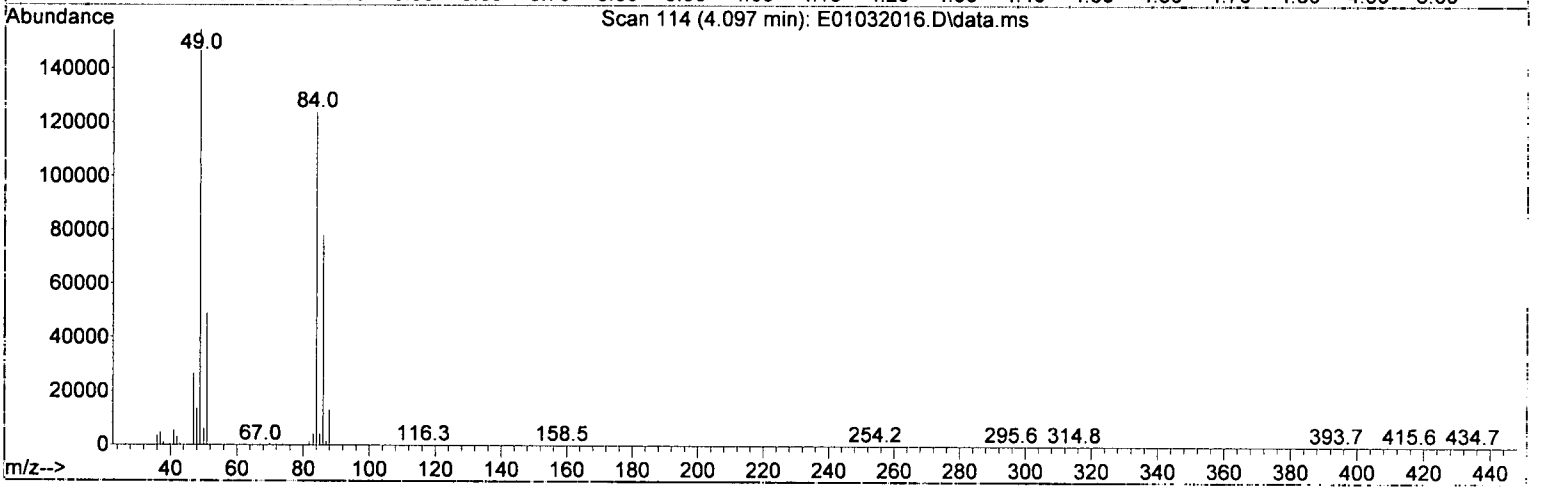
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:58 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032016.D\data.ms

(2) N-Nitrosodimethylamine (T)

4.097min (-0.011) 1.17 ng/ml

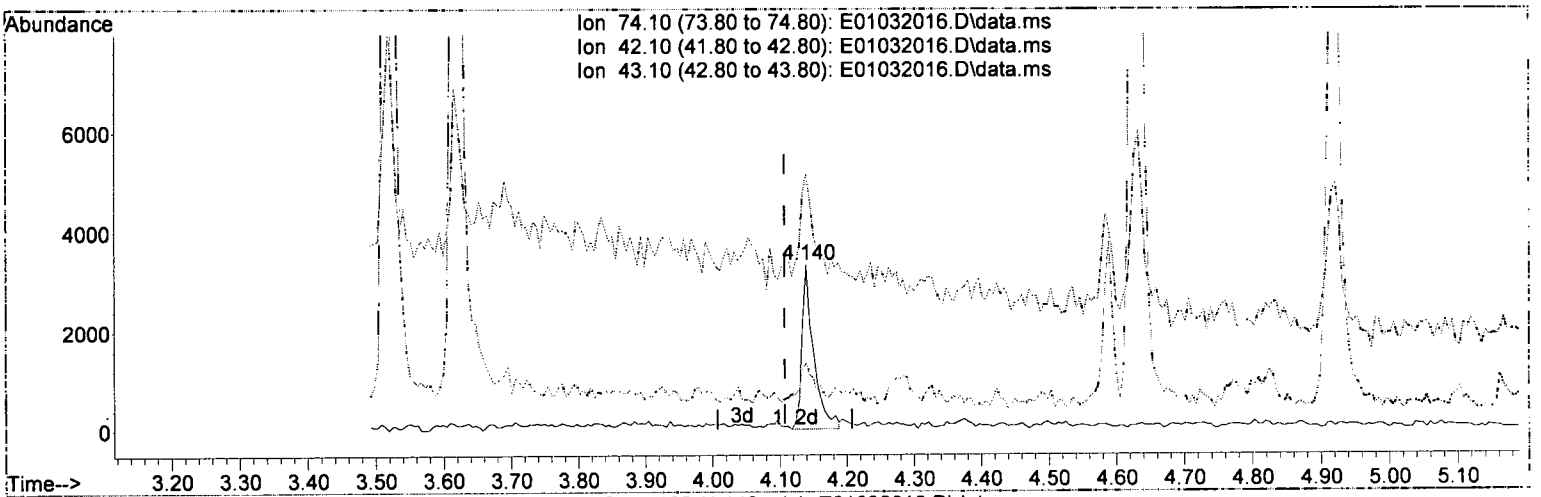
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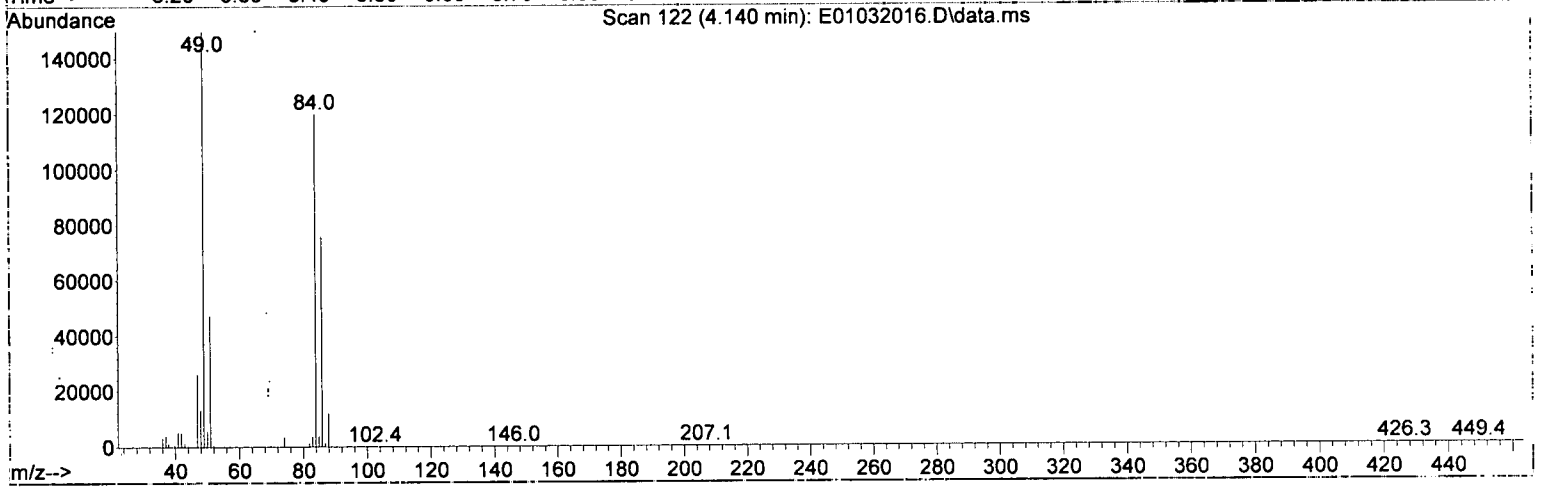
Ion	Exp%	Act%
74.10	100.00	100.00
42.10	58.20	1551.53#
43.10	26.10	331.63#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:58 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032016.D\data.ms

(2) N-Nitrosodimethylamine (T)

4.140min (+ 0.032) 18.44 ng/ml m

response 4143

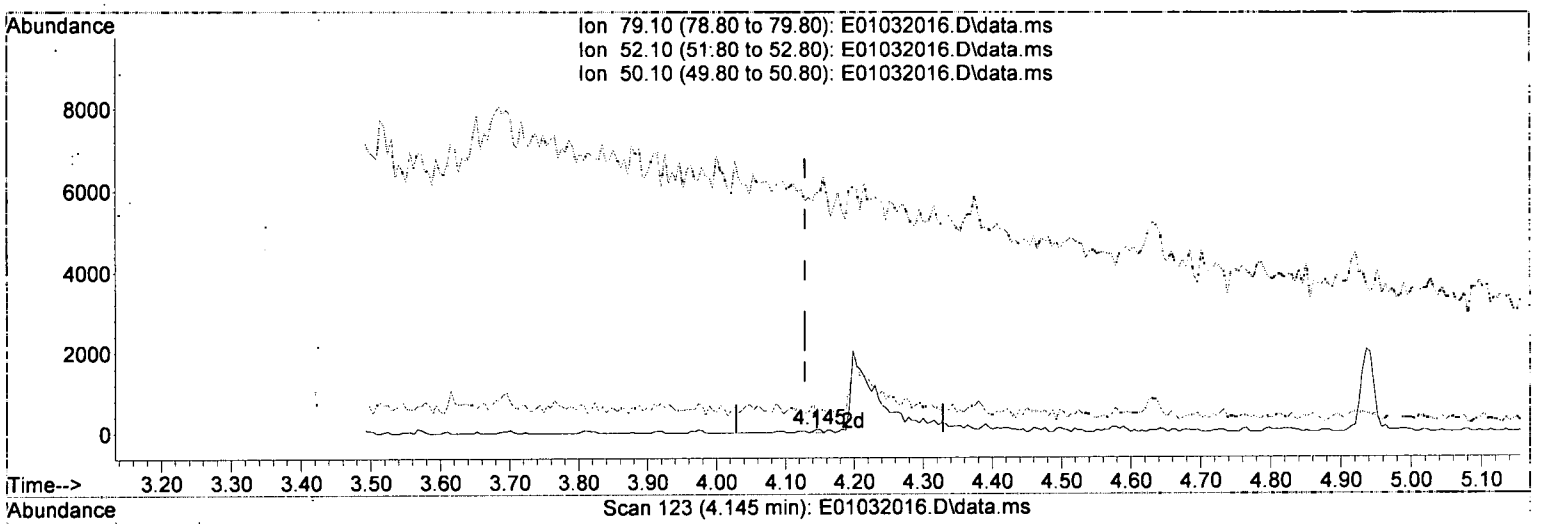
Ion	Exp%	Act%
74.10	100.00	100.00
42.10	58.20	154.21#
43.10	26.10	40.22
0.00	0.00	0.00

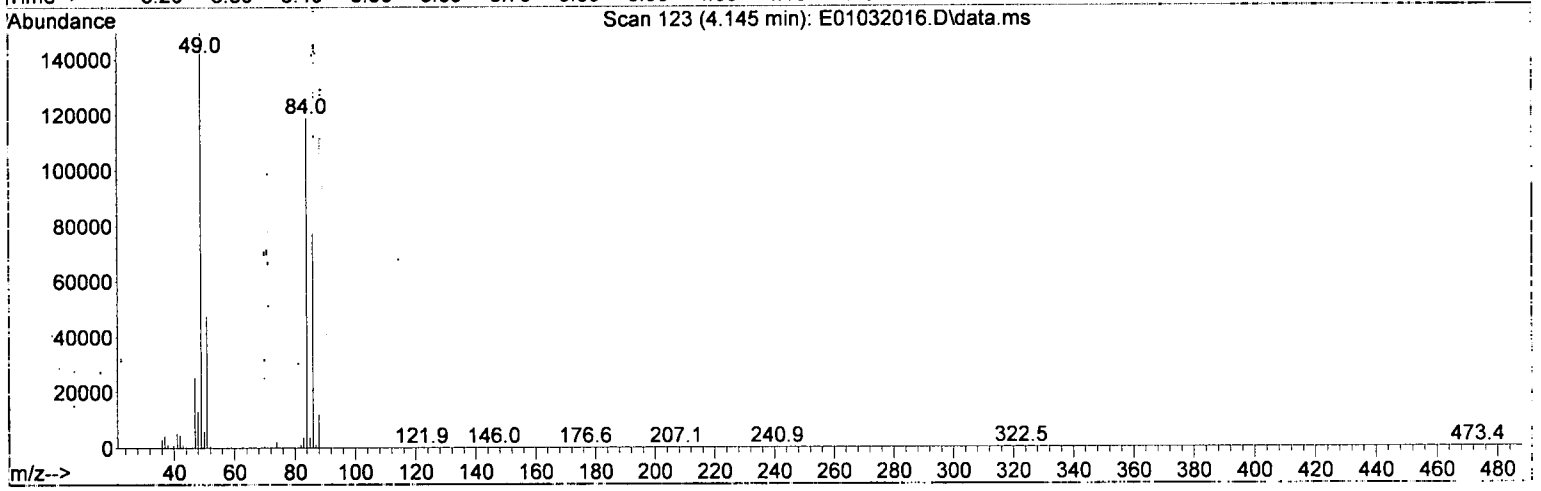
1/6/20

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:58 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032016.D\data.ms

(3) Pyridine (T)

4.145min (+ 0.016) 0.17 ng/ml

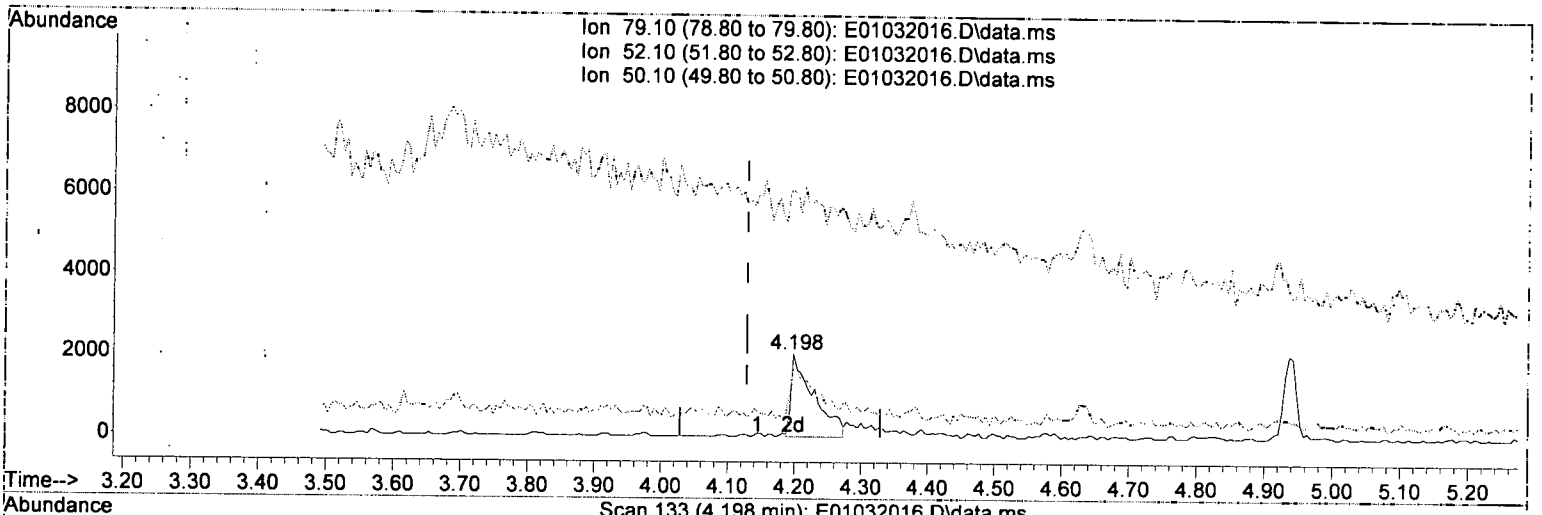
response 58

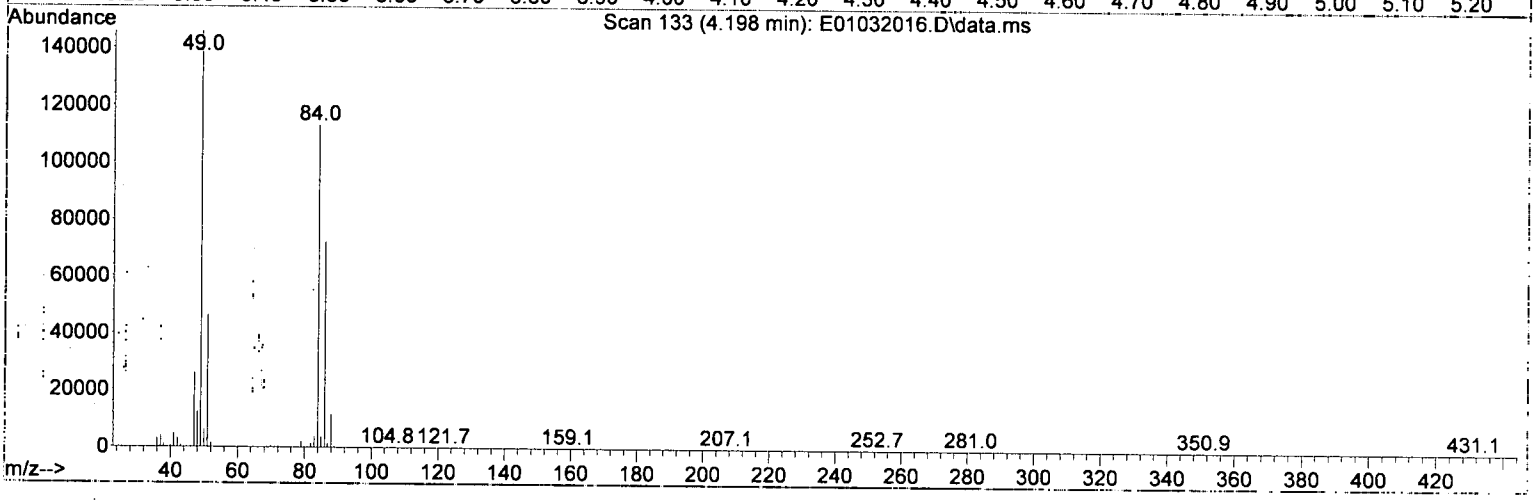
Ion	Exp%	Act%
79.10	100.00	100.00
52.10	58.70	759.26#
50.10	22.50	7377.78#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:58 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032016.D\data.ms

(3) Pyridine (T)

4.198min (+ 0.070) 13.98 ng/ml m

response 4787

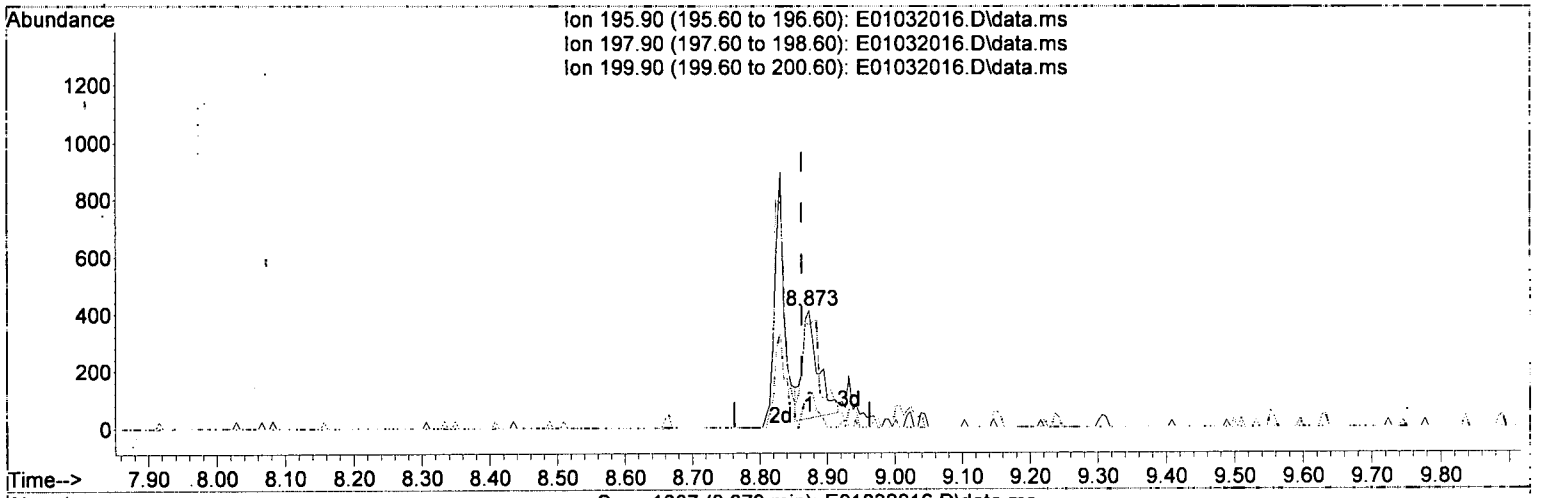
Ion	Exp%	Act%
79.10	100.00	100.00
52.10	58.70	82.00
50.10	22.50	299.95#
0.00	0.00	0.00

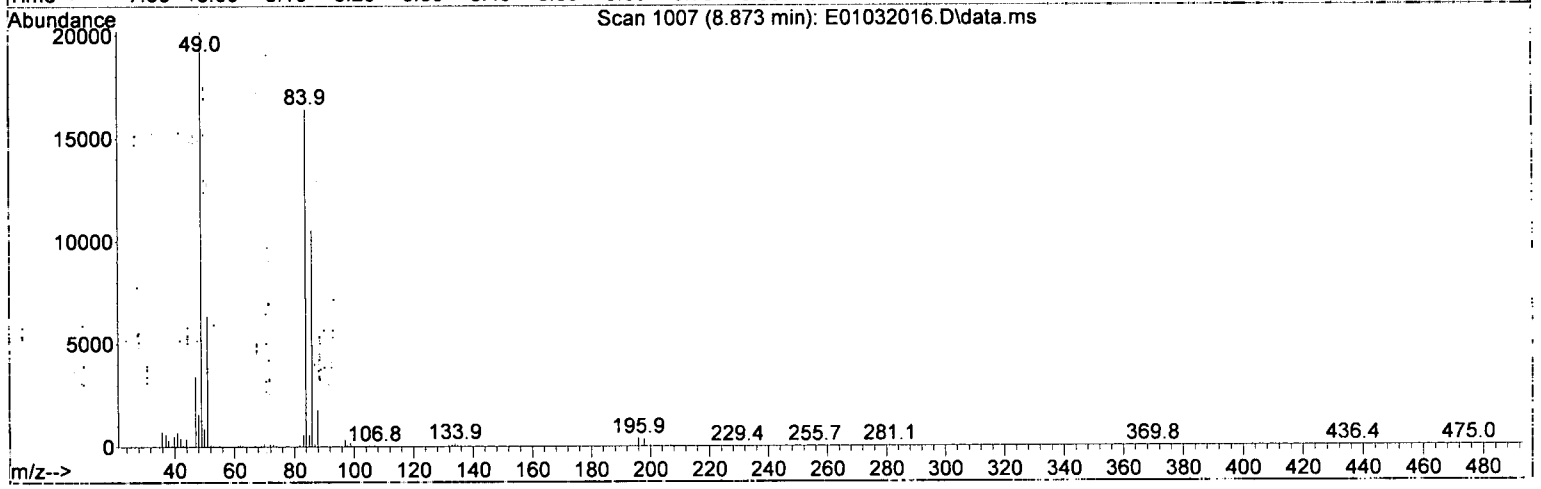
1/6/20

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:58 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032016.D\data.ms

(38) 2,4,5-Trichlorophenol (T)

8.873min (+ 0.011) 32.25 ng/ml

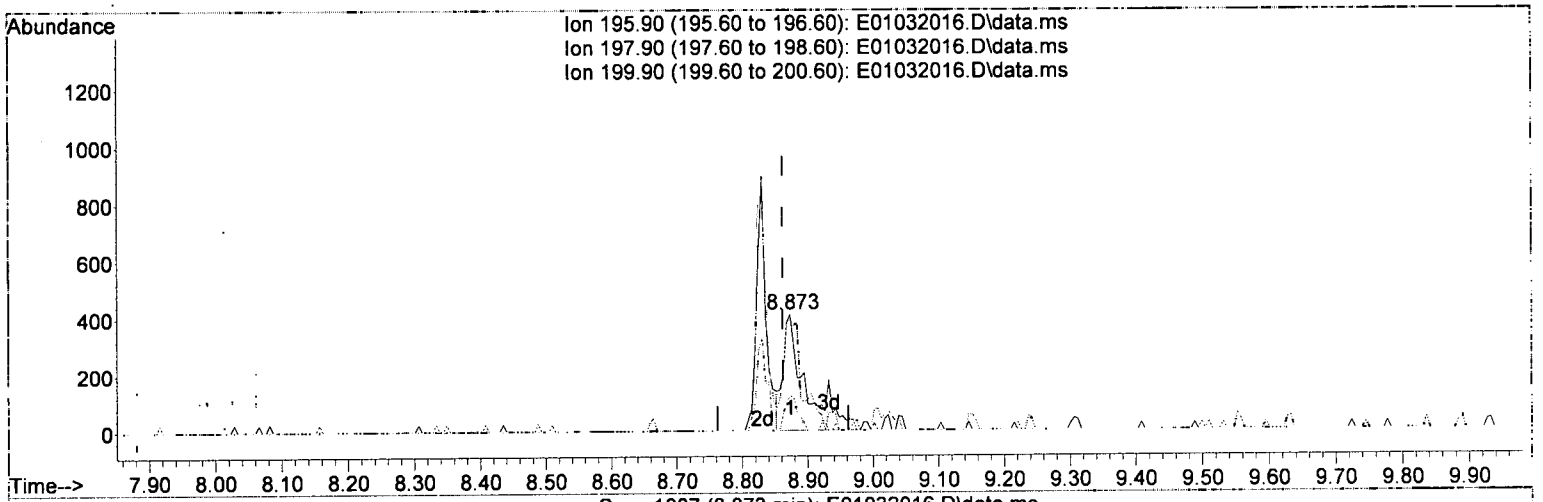
response 621

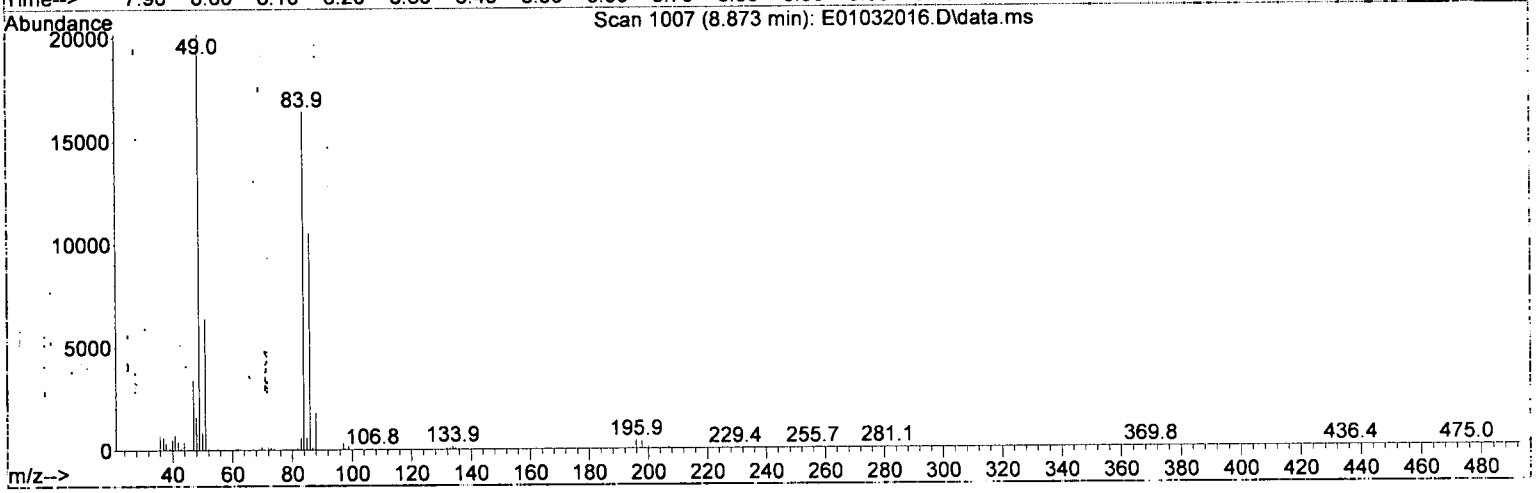
Ion	Exp%	Act%
195.90	100.00	100.00
197.90	95.70	87.59
199.90	30.70	29.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:58 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032016.D\data.ms

(38) 2,4,5-Trichlorophenol (T)

8.873min (+ 0.011) 35.15 ng/ml (m)

response 985

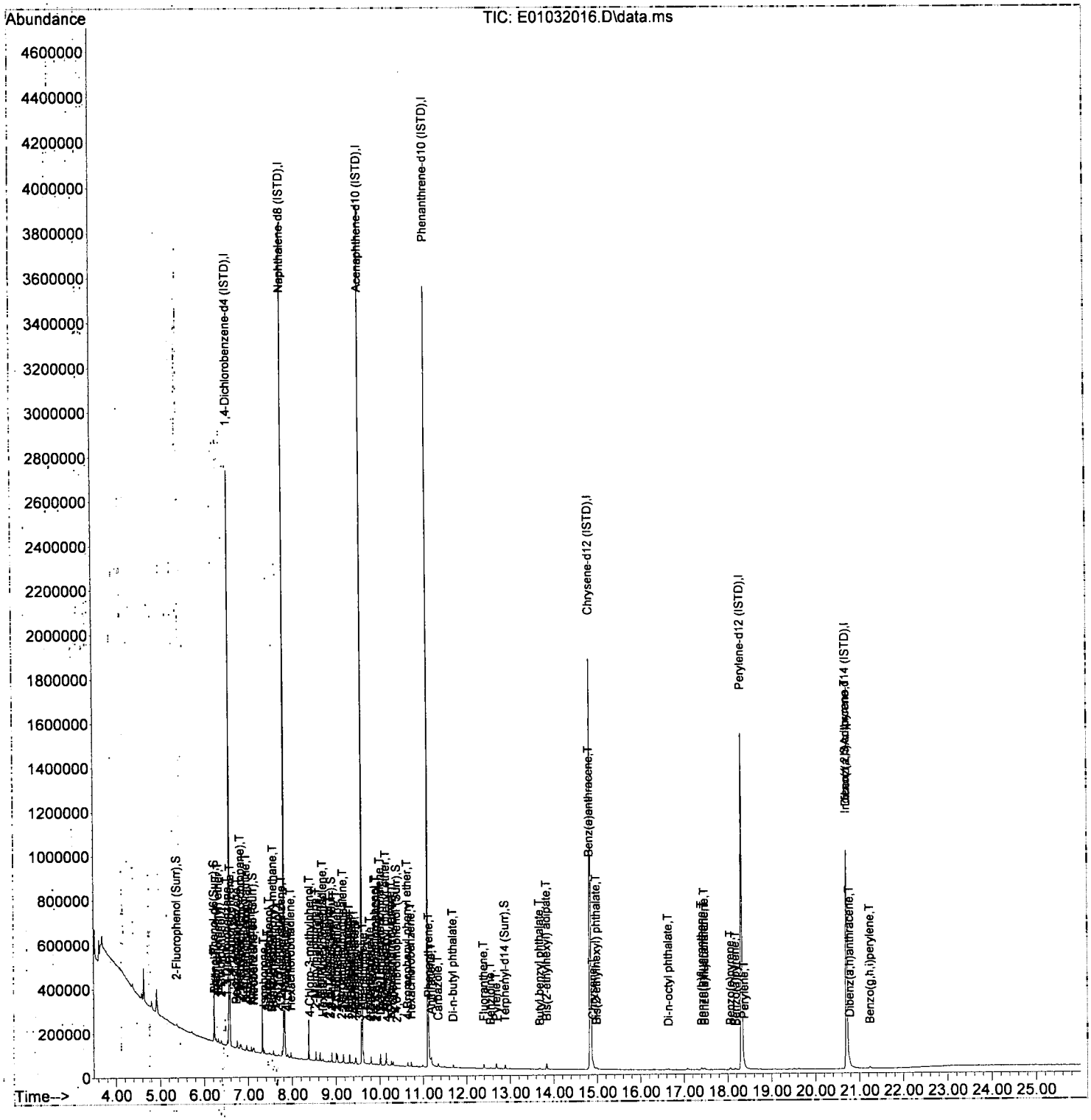
Ion	Exp%	Act%
195.90	100.00	100.00
197.90	95.70	87.59
199.90	30.70	29.68
0.00	0.00	0.00

JK 1/6/20

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032016.D
Acq On : 3 Jan 2020 17:56
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL1
Misc : 1x, A20A022@20
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:42:58 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032017.D
Acq On : 3 Jan 2020 18:33
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL2
Misc : 1x, A20A023@50
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:04 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JK 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1;4-Dichlorobenzene-d4...	6.578	152	486839	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.825	136	1917336	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.595	162	838213	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1377836	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.853	240	1190899	2000.00	ng/ml	-0.01
86) Perylene-d12 (ISTD)	18.324	264	1056735	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.709	292	747643	2000.00	ng/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.375	112	12764	41.14	ng/ml	0.00
5) Phenol-d6 (Surr)	6.231	99	16579	41.43	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.113	82	14881	43.40	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.905	172	31127	50.36	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.403	330	992	47.76	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.884	244	23281	43.46	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.129	74	10568	45.93	ng/ml#	53
3) Pyridine	4.171	79	13485	38.45	ng/ml#	24
6) Phenol	6.241	94	20218	44.60	ng/ml	93
7) Aniline	6.268	93	19779	38.63	ng/ml	95
8) Bis(2-chloroethyl) ether	6.322	93	18849	50.24	ng/ml	89
9) 2-Chlorophenol	6.386	128	13700	40.56	ng/ml	91
10) 1;3-Dichlorobenzene	6.525	146	19596	51.68	ng/ml	95
11) 1;4-Dichlorobenzene	6.594	146	19296	49.87	ng/ml	94
12) Benzyl alcohol	6.723	108	3816	53.14	ng/ml	86
13) 1,2-Dichlorobenzene	6.744	146	18524	50.62	ng/ml	98
14) 2-Methylphenol	6.814	107	9996	37.82	ng/ml	94
15) 2,2'-Oxybis(1-Chloropr...	6.835	45	25871	52.18	ng/ml	88
16) N-Nitrosodi-n-propylamine	6.958	70	9820	41.04	ng/ml	89
17) 3+4-Methylphenol	6.963	107	13183	40.48	ng/ml	93
18) Hexachloroethane	7.070	117	7066	50.74	ng/ml	85
20) Nitrobenzene	7.129	77	15937	45.71	ng/ml	88
22) Isophorone	7.359	82	23276	38.12	ng/ml	93
23) 2-Nitrophenol	7.445	139	4354	48.04	ng/ml	81
24) 2,4-Dimethylphenol	7.482	122	7383	29.24	ng/ml	92
25) Bis(2-chloroethoxy) me...	7.568	93	21165	50.15	ng/ml	98
26) Benzoic acid	7.552	105	77	960.69	ng/ml#	1
27) 2,4-Dichlorophenol	7.686	162	7306	41.63	ng/ml	94
28) 1,2,4-Trichlorobenzene	7.766	180	14577	51.04	ng/ml	93
29) Naphthalene	7.841	128	54595	53.70	ng/ml	99
30) 4-Chloroaniline	7.894	127	13348	38.04	ng/ml	96
31) Hexachlorobutadiene	7.969	225	7076	50.04	ng/ml	96
32) 4-Chloro-3-methylphenol	8.386	107	2312	47.13	ng/ml#	1
33) 2-Methylnaphthalene	8.536	142	32321	49.55	ng/ml	98
34) 1-Methylnaphthalene	8.638	142	30209	48.53	ng/ml	99
36) Hexachlorocyclopentadiene	8.707	237	3658	46.72	ng/ml	93
37) 2,4,6-Trichlorophenol	8.825	196	2952	46.19	ng/ml	97
38) 2,4,5-Trichlorophenol	8.868	196	2153	44.37	ng/ml	95
39) 1,1'-Biphenyl	9.007	154	37152	52.10	ng/ml	99
41) 2-Chloronaphthalene	9.028	162	27431	51.78	ng/ml	99
42) 2-Nitroaniline	9.135	138	3307	47.63	ng/ml	80
43) 2,6-Dimethylnaphthalene	9.167	156	24983	48.39	ng/ml	96

See MI

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032017.D
Acq On : 3 Jan 2020 18:33
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL2
Misc : 1x, A20A023@50
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:04 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,4-Dinitrobenzene	9.263	168	1373	49.32 ng/ml#	62
45) Dimethyl phthalate	9.306	163	23547	43.44 ng/ml	97
46) 1,3-Dinitrobenzene	9.344	168	1944	21.31 ng/ml	51
47) 2,6-Dinitrotoluene	9.370	165	3457	26.85 ng/ml	82
48) 1,2-Dinitrobenzene	9.429	168	1583	26.79 ng/ml#	35
49) Acenaphthylene	9.451	152	35698	44.72 ng/ml	99
50) 3-Nitroaniline	9.547	138	3162	22.39 ng/ml	95
51) Acenaphthene	9.627	153	28357	51.04 ng/ml	95
52) 2,4-Dinitrophenol	0.000		0	N.D.	
53) 4-Nitrophenol	9.739	139	379	89.50 ng/ml#	67
54) 2,4-Dinitrotoluene	9.788	165	3119	49.41 ng/ml	81
55) Dibenzofuran	9.804	168	34590	47.93 ng/ml#	80
56) 2,3,5,6-Tetrachlorophenol	9.895	232	888	51.09 ng/ml	95
57) 2,3,4,6-Tetrachlorophenol	9.937	232	1377	43.49 ng/ml	93
58) Diethyl phthalate	10.023	149	22680	42.04 ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.012	170	21190	46.45 ng/ml	97
60) Fluorene	10.151	166	27117	47.43 ng/ml	98
61) 4-Chlorophenyl phenyl ...	10.146	204	12511	47.50 ng/ml	96
62) 4-Nitroaniline	10.167	138	3211	37.04 ng/ml	81
63) 4,6-Dinitro-2-methylph...	10.205	198	214	146.26 ng/ml#	2
65) N-Nitrosodiphenylamine	10.264	169	17264	39.73 ng/ml	97
66) Azobenzene (1,2-DPH)	10.306	77	21174	38.86 ng/ml	91
68) 4-Bromophenyl phenyl e...	10.643	248	5701	42.81 ng/ml	90
69) Hexachlorobenzene	10.724	284	7128	48.95 ng/ml	95
70) Pentachlorophenol (PCP)	10.927	266	408	89.22 ng/ml	84
71) Phenanthrene	11.130	178	40007	51.48 ng/ml	98
72) Anthracene	11.184	178	32863	44.29 ng/ml	99
73) Carbazole	11.344	167	24855	38.19 ng/ml	96
74) Di-n-butyl phthalate	11.686	149	22650	28.56 ng/ml	96
75) Fluoranthene	12.392	202	30918	41.73 ng/ml	96
76) Benzidine	12.547	184	6634	197.14 ng/ml	89
77) Pyrene	12.681	202	33283	43.18 ng/ml	99
80) Butyl benzyl phthalate	13.671	149	5000	75.66 ng/ml	73
81) Bis(2-ethylhexyl) adipate	13.842	129	11500	109.30 ng/ml	97
82) 3,3-Dichlorobenzidine	14.794	252	6955	Below Cal	84
83) Benz(a)anthracene	14.831	228	28265	44.17 ng/ml	97
84) Chrysene	14.906	228	31715	49.68 ng/ml	98
85) Bis(2-ethylhexyl) phth...	14.986	149	6604	78.13 ng/ml	91
87) Di-n-octyl phthalate	16.644	149	7017	73.87 ng/ml	88
88) Benzo(b)fluoranthene	17.404	252	19111	43.92 ng/ml	93
89) Benzo(k)fluoranthene	17.468	252	18435	41.97 ng/ml	93
90) Benzo(b+k)fluoranthene	17.404	252	40627	86.90 ng/ml	96
91) Benzo(e)pyrene	18.062	252	19961	43.32 ng/ml	96
92) Benzo(a)pyrene	18.174	252	12065	37.19 ng/ml	95
93) Perylene	18.377	252	23772	46.41 ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.704	276	20780	47.38 ng/ml	76
96) Dibenz(a,h)anthracene	20.768	278	18434	44.57 ng/ml	89
97) Benzo(g,h,i)perylene	21.244	276	16763	40.84 ng/ml	82

See MJ

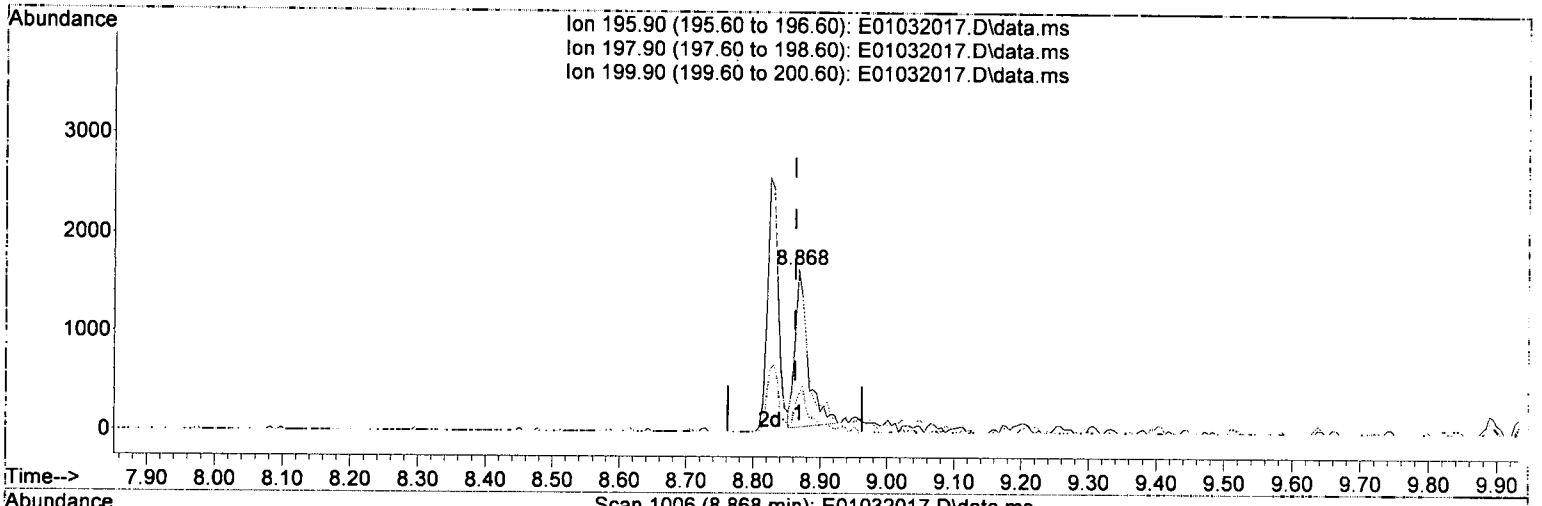
(#) = qualifier out of range (m) = manual integration (+) = signals summed

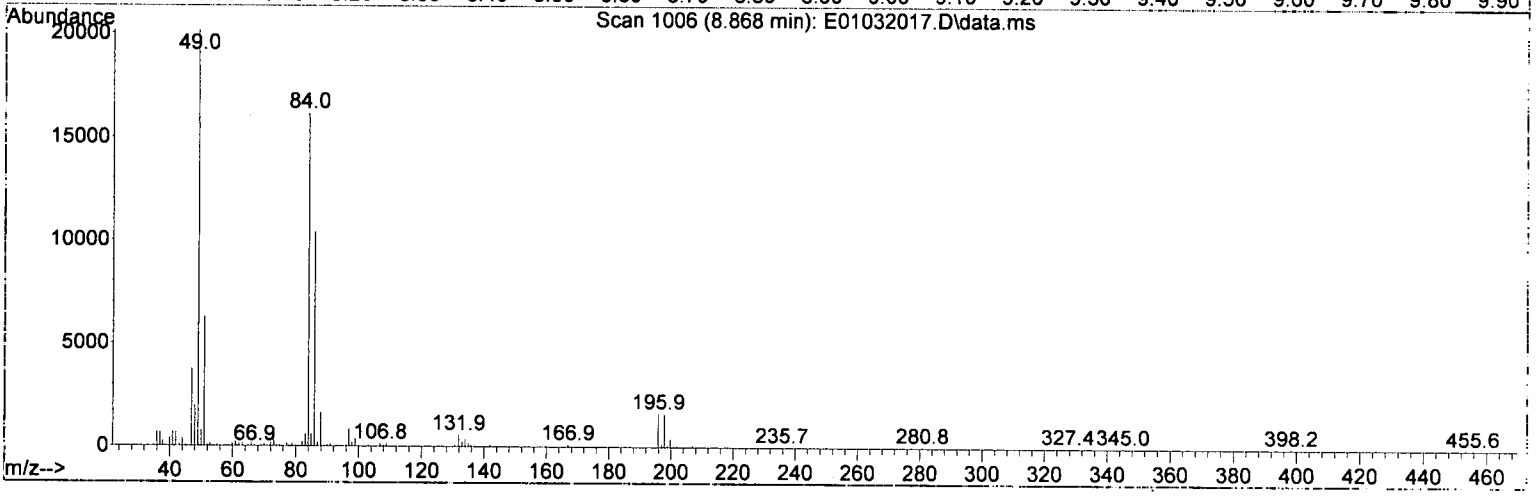
07/15/20 Anchor QEA, LLC - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1129 of 1443

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032017.D
Acq On : 3 Jan 2020 18:33
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL2
Misc : 1x, A20A023@50
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:04 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032017.D\data.ms

(38) 2,4,5-Trichlorophenol (T)

8.868min (+ 0.005) 44.37 ng/ml

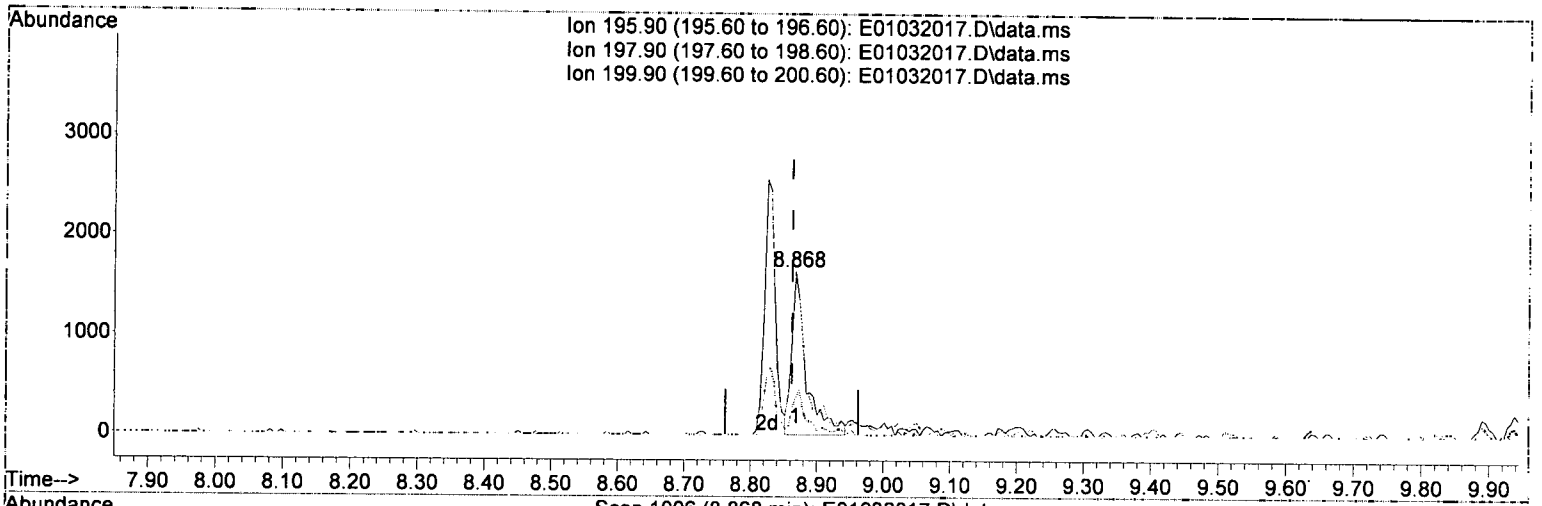
response 2153

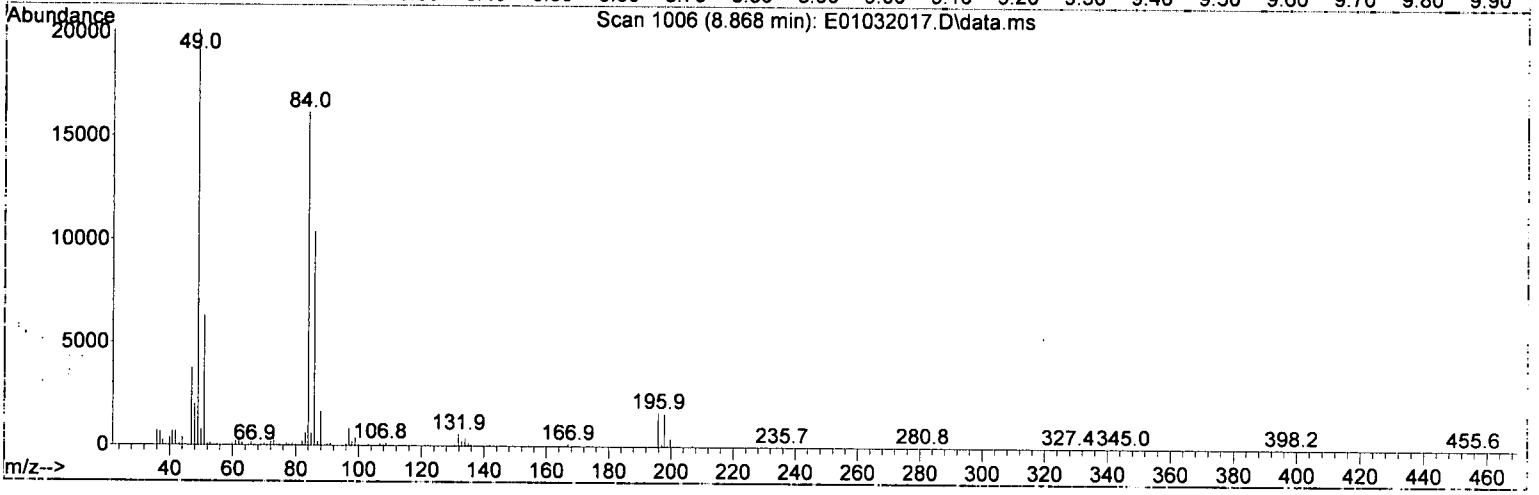
Ion	Exp%	Act%
195.90	100.00	100.00
197.90	95.70	97.27
199.90	30.70	22.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032017.D
Acq On : 3 Jan 2020 18:33
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL2
Misc : 1x, A20A023@50
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:04 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032017.D\data.ms

(38) 2,4,5-Trichlorophenol (T)

8.868min (+ 0.005) 47.58 ng/ml m

response 2558

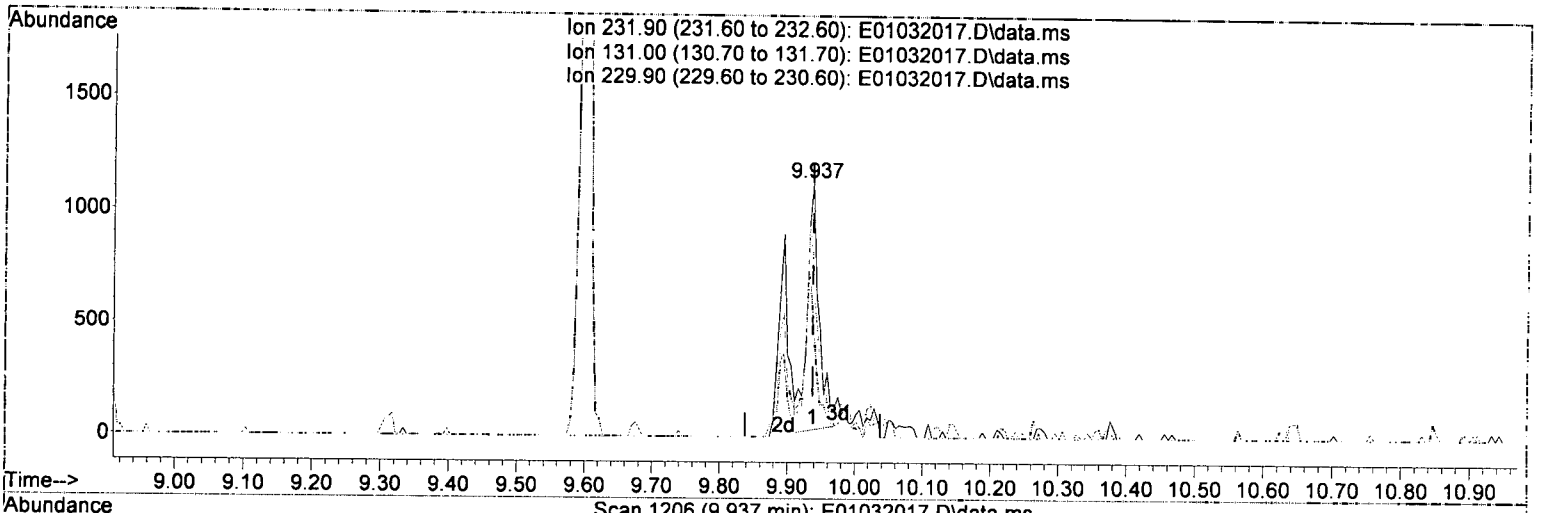
Ion	Exp%	Act%
195.90	100.00	100.00
197.90	95.70	97.27
199.90	30.70	22.71
0.00	0.00	0.00

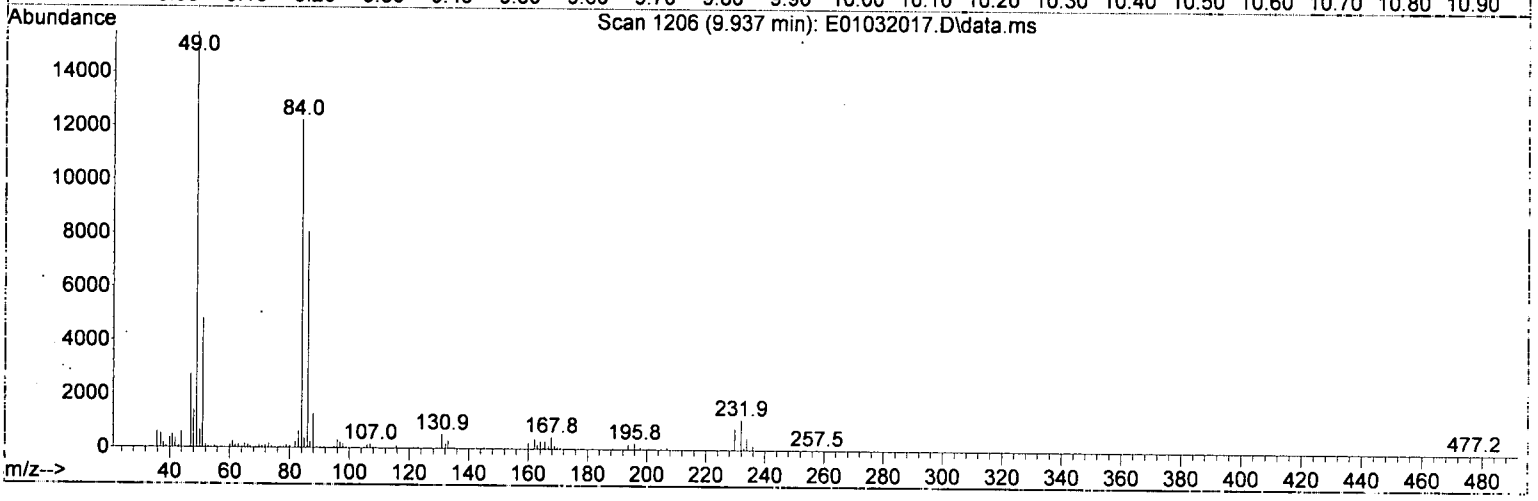
1/16/20

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032017.D
Acq On : 3 Jan 2020 18:33
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL2
Misc : 1x, A20A023@50
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:04 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032017.D\data.ms

(57) 2,3,4,6-Tetrachlorophenol (T)

9.937min (+ 0.000) 43.49 ng/ml

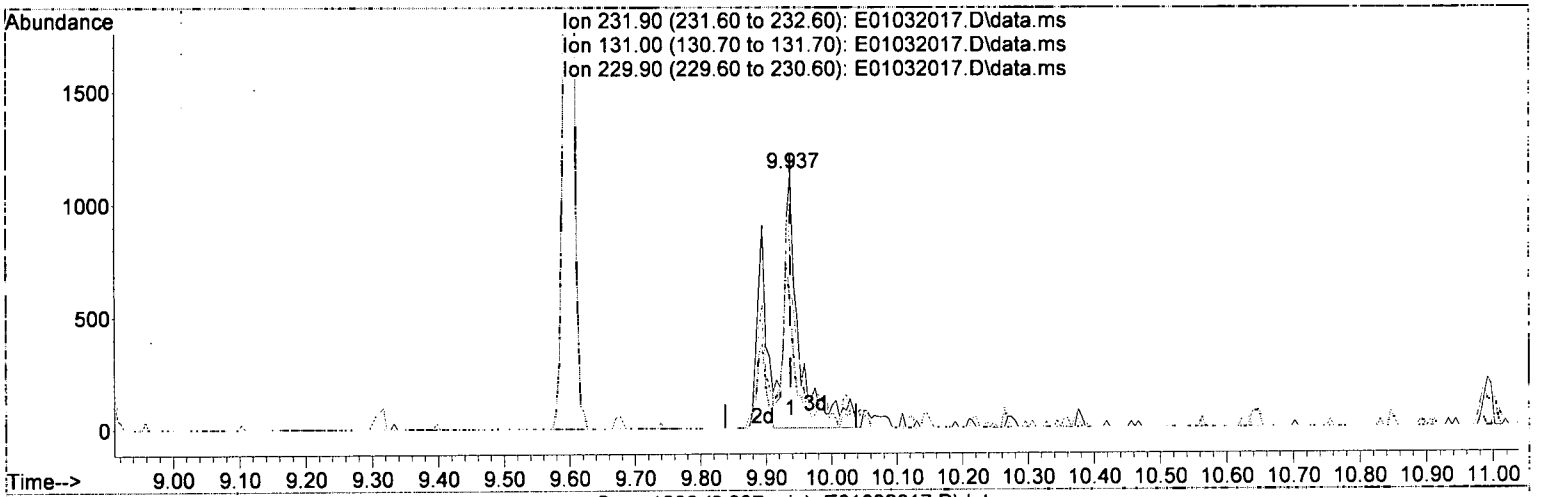
response 1377

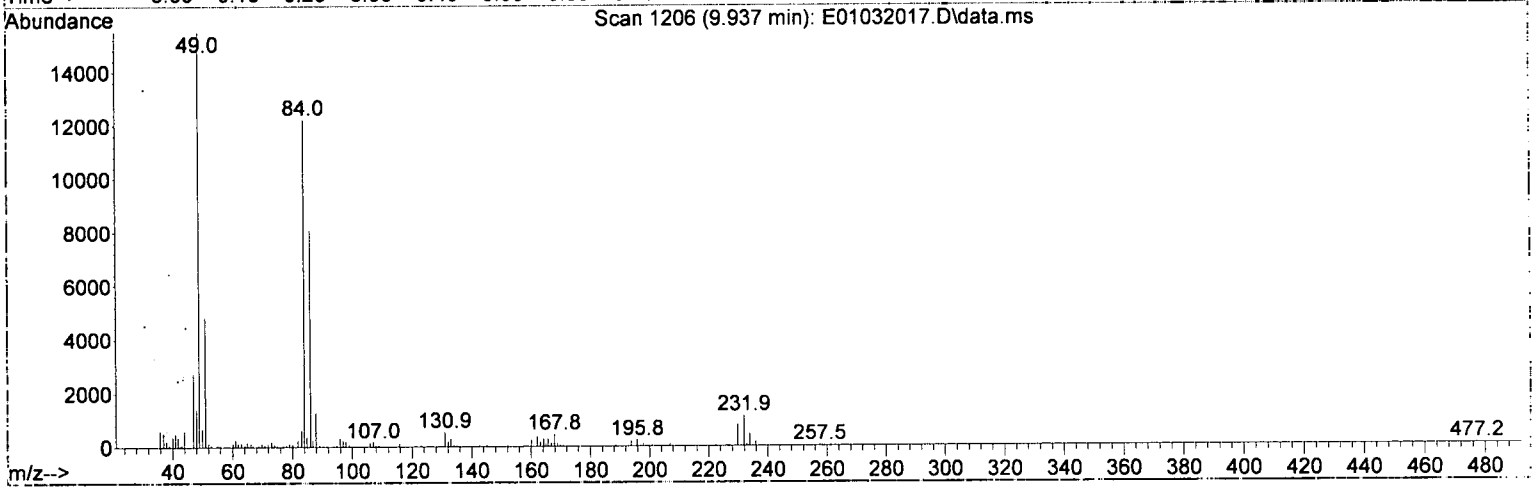
Ion	Exp%	Act%
231.90	100.00	100.00
131.00	44.50	47.85
229.90	78.30	71.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032017.D
Acq On : 3 Jan 2020 18:33
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL2
Misc : 1x, A20A023@50
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:04 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032017.D\data.ms

(57) 2,3,4,6-Tetrachlorophenol (T)

9.937min (+ 0.000) 48.16 ng/ml m

response 1885

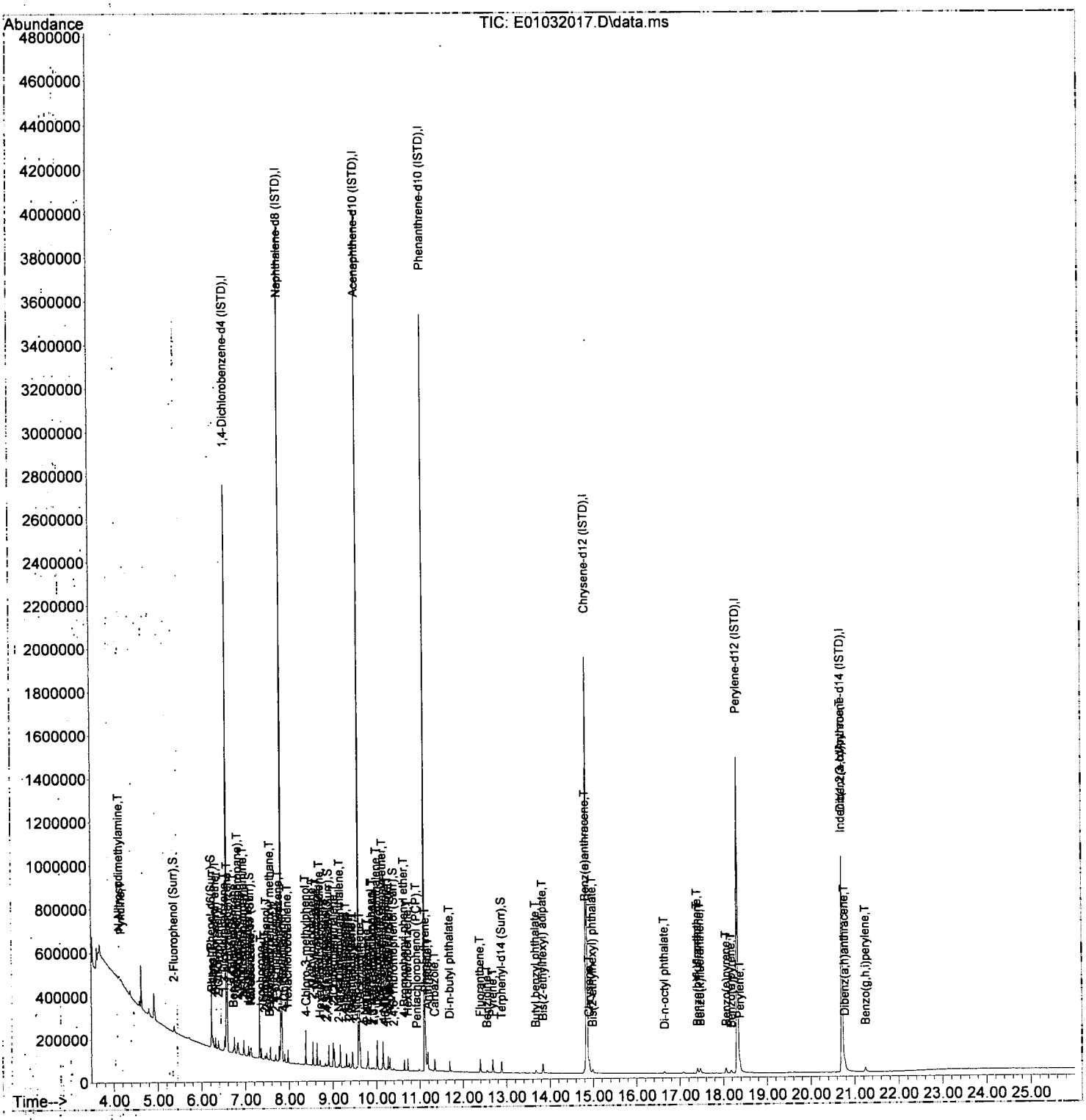
Ion	Exp%	Act%
231.90	100.00	100.00
131.00	44.50	47.85
229.90	78.30	71.86
0.00	0.00	0.00

JK 1/6/20

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032017.D
Acq On : 3 Jan 2020 18:33
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL2
Misc : 1x, A20A023@50
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:04 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032018.D
Acq On : 3 Jan 2020 19:10
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL3
Misc : 1x, A20A024@100
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

JD 1/6/20

Misinjection
Not entered in Element

Quant Time: Jan 06 09:43:21 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.557	152	246795	2000.00	ng/ml	-0.02
21) Naphthalene-d8 (ISTD)	7.809	136	360039	2000.00	ng/ml	-0.02
35) Acenaphthene-d10 (ISTD)	9.600	162	491253	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1163145	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.853	240	380158	2000.00	ng/ml	-0.01
86) Perylene-d12 (ISTD)	18.324	264	252898	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.715	292	196034	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.412	112	25955	165.02	ng/ml	0.04
5) Phenol-d6 (Surr)	6.209	99	17582	86.68	ng/ml	-0.02
19) Nitrobenzene-d5 (Surr)	7.076	82	16925	97.36	ng/ml	-0.03
40) 2-Fluorobiphenyl (Surr)	8.905	172	32477	89.66	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.403	330	2725	86.83	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.884	244	27151	158.77	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.097	74	87	N.D.		
3) Pyridine	4.038	79	85	N.D.		
6) Phenol	6.220	94	16636	72.39	ng/ml	95
7) Aniline	6.252	93	27221	104.87	ng/ml	68
8) Bis(2-chloroethyl) ether	6.289	93	36606	192.46	ng/ml	69
9) 2-Chlorophenol	6.364	128	14911	87.09	ng/ml	89
10) 1,3-Dichlorobenzene	6.509	146	20671	107.55	ng/ml	97
11) 1,4-Dichlorobenzene	6.573	146	24228	123.53	ng/ml	90
12) Benzyl alcohol	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	6.717	146	18191	98.07	ng/ml	96
14) 2-Methylphenol	6.782	107	12567	93.79	ng/ml	96
15) 2,2'-Oxybis(1-Chloropr...	6.830	45	19374	77.09	ng/ml	86
16) N-Nitrosodi-n-propylamine	6.915	70	9441	77.83	ng/ml	94
17) 3+4-Methylphenol	6.953	107	5694	34.49	ng/ml	94
18) Hexachloroethane	7.065	117	2985	42.29	ng/ml	87
20) Nitrobenzene	7.092	77	14835	83.93	ng/ml	85
22) Isophorone	7.316	82	23478	204.75	ng/ml	90
23) 2-Nitrophenol	7.434	139	5253	193.43	ng/ml	74
24) 2,4-Dimethylphenol	7.493	122	1078	22.73	ng/ml	89
25) Bis(2-chloroethoxy) me...	7.573	93	16173	204.08	ng/ml	98
26) Benzoic acid	7.546	105	940	1012.17	ng/ml#	1
27) 2,4-Dichlorophenol	7.675	162	2706	74.87	ng/ml	88
28) 1,2,4-Trichlorobenzene	7.750	180	5737	106.97	ng/ml	94
29) Naphthalene	7.830	128	20674	108.28	ng/ml	33
30) 4-Chloroaniline	7.878	127	5339	81.04	ng/ml	90
31) Hexachlorobutadiene	7.958	225	2805	105.63	ng/ml	97
32) 4-Chloro-3-methylphenol	8.392	107	7915	231.24	ng/ml#	1
33) 2-Methylnaphthalene	8.541	142	21841	178.30	ng/ml	97
34) 1-Methylnaphthalene	8.643	142	28562	244.35	ng/ml	96
36) Hexachlorocyclopentadiene	8.707	237	2142	46.69	ng/ml	96
37) 2,4,6-Trichlorophenol	8.830	196	8657	134.69	ng/ml	98
38) 2,4,5-Trichlorophenol	8.868	196	2705	63.85	ng/ml	97
39) 1,1'-Biphenyl	9.007	154	39370	94.20	ng/ml	97
41) 2-Chloronaphthalene	9.033	162	27644	89.04	ng/ml	98
42) 2-Nitroaniline	9.135	138	6744	99.37	ng/ml	83
43) 2,6-Dimethylnaphthalene	9.172	156	27695	91.53	ng/ml	98

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032018.D
Acq On : 3 Jan 2020 19:10
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL3
Misc : 1x, A20A024@100
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:21 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

Misinjection

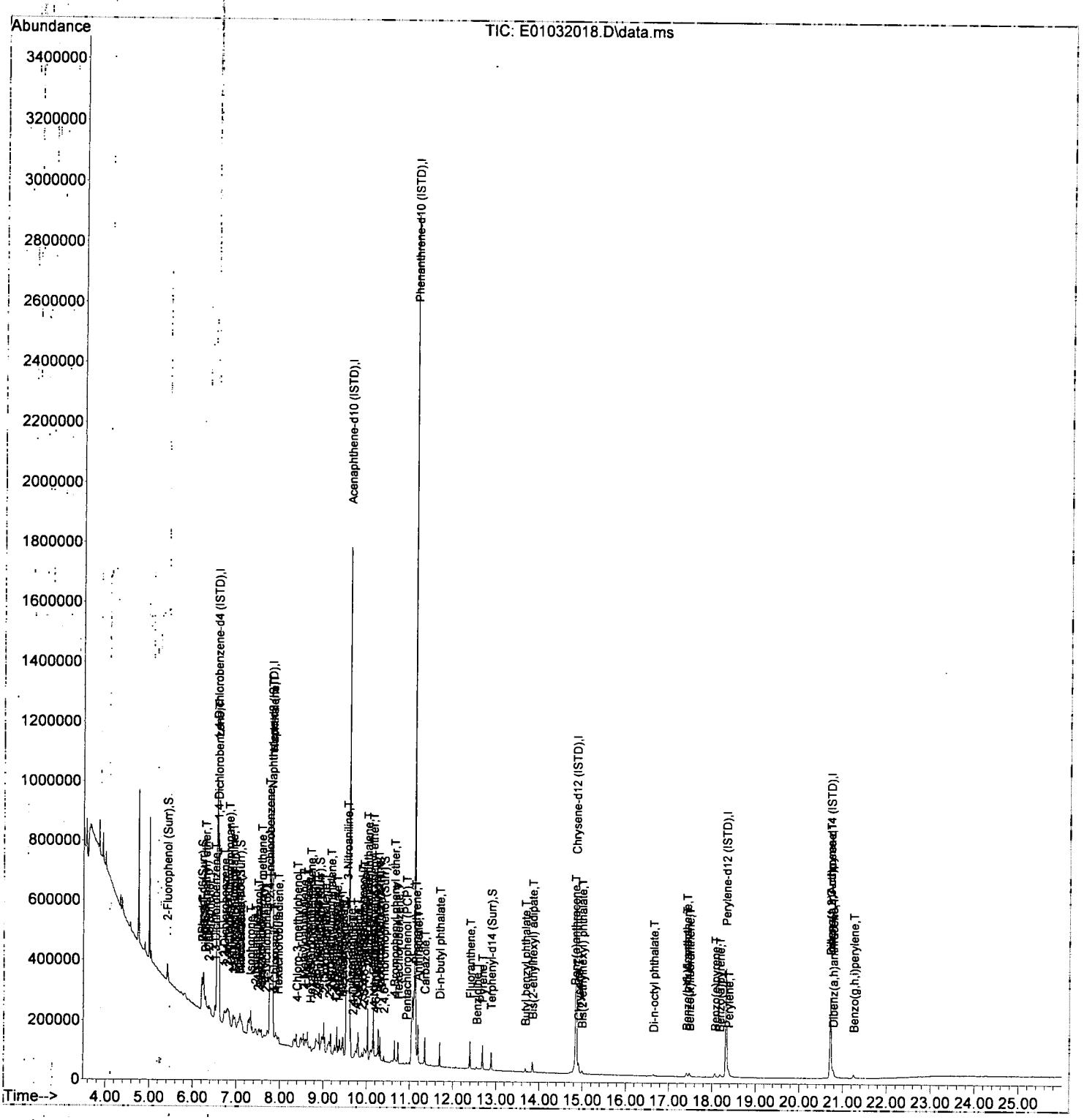
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,4-Dinitrobenzene	9.263	168	3587	117.47	ng/ml#	47
45) Dimethyl phthalate	9.311	163	38796	122.12	ng/ml	100
46) 1,3-Dinitrobenzene	9.344	168	4110	76.88	ng/ml	76
47) 2,6-Dinitrotoluene	9.370	165	6809	90.24	ng/ml	63
48) 1,2-Dinitrobenzene	9.429	168	2821	81.45	ng/ml#	30
49) Acenaphthylene	9.451	152	45843	97.98	ng/ml	98
50) 3-Nitroaniline	9.552	138	7134	86.21	ng/ml	85
51) Acenaphthene	9.632	153	34460	105.84	ng/ml	98
52) 2,4-Dinitrophenol	9.681	184	68	197.28	ng/ml#	1
53) 4-Nitrophenol	9.745	139	9472	261.10	ng/ml#	48
54) 2,4-Dinitrotoluene	9.787	165	6812	100.61	ng/ml	69
55) Dibenzofuran	9.804	168	47043	111.22	ng/ml#	71
56) 2,3,5,6-Tetrachlorophenol	9.894	232	4496	121.16	ng/ml	92
57) 2,3,4,6-Tetrachlorophenol	9.937	232	3243	81.62	ng/ml	85
58) Diethyl phthalate	10.023	149	40229	127.24	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.017	170	30759	115.04	ng/ml	99
60) Fluorene	10.157	166	39776	118.70	ng/ml	97
61) 4-Chlorophenyl phenyl ...	10.146	204	18378	119.06	ng/ml	91
62) 4-Nitroaniline	10.167	138	6082	88.63	ng/ml	91
63) 4,6-Dinitro-2-methylph...	10.205	198	822	162.15	ng/ml#	1
65) N-Nitrosodiphenylamine	10.269	169	31659	86.30	ng/ml	97
66) Azobenzene (1,2-DPH)	10.306	77	40113	87.20	ng/ml	88
68) 4-Bromophenyl phenyl e...	10.643	248	10741	95.55	ng/ml	89
69) Hexachlorobenzene	10.729	284	11487	93.45	ng/ml	94
70) Pentachlorophenol (PCP)	10.921	266	699	97.52	ng/ml	77
71) Phenanthrene	11.135	178	76631	116.81	ng/ml	100
72) Anthracene	11.183	178	57035	91.05	ng/ml	99
73) Carbazole	11.349	167	46612	84.85	ng/ml	99
74) Di-n-butyl phthalate	11.692	149	41770	62.38	ng/ml	98
75) Fluoranthene	12.398	202	46483	74.32	ng/ml	96
76) Benzidine	12.553	184	4510	193.66	ng/ml	92
77) Pyrene	12.681	202	44956	69.08	ng/ml	100
80) Butyl benzyl phthalate	13.676	149	3803	97.03	ng/ml	71
81) Bis(2-ethylhexyl) adipate	13.847	129	9081	158.96	ng/ml	97
82) 3,3-Dichlorobenzidine	14.805	252	4844	Below Cal		93
83) Benz(a)anthracene	14.831	228	18842	92.24	ng/ml	99
84) Chrysene	14.911	228	20636	101.27	ng/ml	98
85) Bis(2-ethylhexyl) phth...	14.992	149	3891	90.85	ng/ml	96
87) Di-n-octyl phthalate	16.650	149	3906	89.10	ng/ml	89
88) Benzo(b)fluoranthene	17.415	252	10296	87.51	ng/ml	93
89) Benzo(k)fluoranthene	17.470	252	9106	75.75	ng/ml	86
90) Benzo(b+k)fluoranthene	17.415	252	21952	174.47	ng/ml	96
91) Benzo(e)pyrene	18.067	252	11026	89.52	ng/ml	99
92) Benzo(a)pyrene	18.180	252	6187	65.19	ng/ml	92
93) Perylene	18.383	252	11761	95.94	ng/ml	97
95) Indeno(1,2,3-cd)pyrene	20.715	276	11043	96.03	ng/ml	87
96) Dibenz(a,h)anthracene	20.774	278	10603	97.78	ng/ml	91
97) Benzo(g,h,i)perylene	21.250	276	9527	88.53	ng/ml	87

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

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032018.D
Acq On : 3 Jan 2020 19:10
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL3
Misc : 1x, A20A024@100
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:21 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032019.D
Acq On : 3 Jan 2020 19:47
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL3
Misc : 1x, A20A024@100
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.573	152	487898	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.825	136	1905993	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.600	162	837730	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1350478	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.853	240	1183679	2000.00	ng/ml	-0.01
86) Perylene-d12 (ISTD)	18.329	264	1060071	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.715	292	740181	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.370	112	27225	87.56	ng/ml	0.00
5) Phenol-d6(Surr)	6.231	99	36199	90.27	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.108	82	32200	93.70	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.905	172	64112	103.80	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.403	330	3003	83.97	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.884	244	49925	93.76	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.123	74	21634	93.83	ng/ml	76
3) Pyridine	4.155	79	31363	89.22	ng/ml#	78
6) Phenol	6.241	94	44170	97.23	ng/ml	96
7) Aniline	6.268	93	48322	94.17	ng/ml	97
8) Bis(2-chloroethyl) ether	6.316	93	40084	106.60	ng/ml	92
9) 2-Chlorophenol	6.380	128	30680	90.64	ng/ml	90
10) 1,3-Dichlorobenzene	6.525	146	38946	102.49	ng/ml	97
11) 1,4-Dichlorobenzene	6.594	146	40428	104.26	ng/ml	97
12) Benzyl alcohol	6.707	108	9129	83.61	ng/ml	93
13) 1,2-Dichlorobenzene	6.744	146	38081	103.84	ng/ml	98
14) 2-Methylphenol	6.814	107	23024	86.92	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	6.830	45	52564	105.79	ng/ml	86
16) N-Nitrosodi-n-propylamine	6.958	70	21191	88.37	ng/ml	95
17) 3+4-Methylphenol	6.963	107	29534	90.48	ng/ml	98
18) Hexachloroethane	7.070	117	14042	100.62	ng/ml	94
20) Nitrobenzene	7.129	77	35208	100.76	ng/ml	91
22) Isophorone	7.359	82	54217	89.32	ng/ml	94
23) 2-Nitrophenol	7.445	139	10479	86.23	ng/ml	82
24) 2,4-Dimethylphenol	7.482	122	18123	72.20	ng/ml	98
25) Bis(2-chloroethoxy) me...	7.568	93	43572	103.86	ng/ml	97
26) Benzoic acid	7.573	105	87	960.80	ng/ml#	1
27) 2,4-Dichlorophenol	7.685	162	15337	79.63	ng/ml	95
28) 1,2,4-Trichlorobenzene	7.766	180	29576	104.17	ng/ml	98
29) Naphthalene	7.841	128	110303	109.13	ng/ml	99
30) 4-Chloroaniline	7.894	127	31638	90.71	ng/ml	91
31) Hexachlorobutadiene	7.974	225	14656	104.25	ng/ml	97
32) 4-Chloro-3-methylphenol	8.386	107	8551	76.37	ng/ml#	1
33) 2-Methylnaphthalene	8.536	142	66280	102.21	ng/ml	99
34) 1-Methylnaphthalene	8.638	142	62932	101.70	ng/ml	98
36) Hexachlorocyclopentadiene	8.707	237	9066	100.33	ng/ml	100
37) 2,4,6-Trichlorophenol	8.830	196	7001	76.58	ng/ml	99
38) 2,4,5-Trichlorophenol	~~8.868~~	~~196~~	~~5698~~	~~72.44~~	~~ng/ml~~	~~96~~
39) 1,1'-Biphenyl	9.007	154	72834	102.19	ng/ml	98
41) 2-Chloronaphthalene	9.033	162	54773	103.46	ng/ml	100
42) 2-Nitroaniline	9.135	138	8063	77.69	ng/ml	86
43) 2,6-Dimethylnaphthalene	9.167	156	52251	101.27	ng/ml	99

see MJ

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032019.D
Acq On : 3 Jan 2020 19:47
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL3
Misc : 1x, A20A024@100
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,4-Dinitrobenzene	9.263	168	3601	81.40 ng/ml#	50
45) Dimethyl phthalate	9.311	163	51592	95.23 ng/ml	99
46) 1,3-Dinitrobenzene	9.344	168	4585	50.29 ng/ml	81
47) 2,6-Dinitrotoluene	9.370	165	8554	66.48 ng/ml	77
48) 1,2-Dinitrobenzene	9.429	168	3933	66.59 ng/ml#	50
49) Acenaphthylene	9.451	152	78588	98.50 ng/ml	99
50) 3-Nitroaniline	9.547	138	8796	62.33 ng/ml	82
51) Acenaphthene	9.627	153	58838	105.97 ng/ml	98
52) 2,4-Dinitrophenol	0.000		0	N.D.	
53) 4-Nitrophenol	9.734	139	1654	103.50 ng/ml	93
54) 2,4-Dinitrotoluene	9.782	165	8732	83.24 ng/ml	81
55) Dibenzofuran	9.804	168	72986	101.19 ng/ml	91
56) 2,3,5,6-Tetrachlorophenol	9.894	232	2885	71.79 ng/ml	91
57) 2,3,4,6-Tetrachlorophenol	9.937	232	4055	68.09 ng/ml	94
58) Diethyl phthalate	10.023	149	51402	95.34 ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.017	170	45125	98.97 ng/ml	99
60) Fluorene	10.151	166	56723	99.26 ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.146	204	25738	97.78 ng/ml	93
62) 4-Nitroaniline	10.167	138	8197	72.99 ng/ml	83
63) 4,6-Dinitro-2-methylph...	10.205	198	1149	158.77 ng/ml	80
65) N-Nitrosodiphenylamine	10.264	169	40175	94.32 ng/ml	98
66) Azobenzene (1,2-DPH)	10.306	77	53165	99.54 ng/ml	88
68) 4-Bromophenyl phenyl e...	10.643	248	12526	95.97 ng/ml	90
69) Hexachlorobenzene	10.724	284	15192	106.45 ng/ml	96
70) Pentachlorophenol (PCP)	10.921	266	776	96.80 ng/ml	84
71) Phenanthrene	11.135	178	80940	106.26 ng/ml	100
72) Anthracene	11.183	178	70034	96.30 ng/ml	99
73) Carbazole	11.344	167	58167	91.19 ng/ml	98
74) Di-n-butyl phthalate	11.686	149	53972	69.42 ng/ml	99
75) Fluoranthene	12.392	202	67149	92.47 ng/ml	94
76) Benzidine	12.547	184	14939	220.32 ng/ml	96
77) Pyrene	12.681	202	70912	93.85 ng/ml	99
80) Butyl benzyl phthalate	13.681	149	12225	98.22 ng/ml	86
81) Bis(2-ethylhexyl) adipate	13.847	129	18058	128.84 ng/ml	97
82) 3,3-Dichlorobenzidine	14.799	252	18508	Below Cal	98
83) Benz(a)anthracene	14.831	228	59676	93.82 ng/ml	96
84) Chrysene	14.911	228	65778	103.67 ng/ml	97
85) Bis(2-ethylhexyl) phth...	14.992	149	16782	101.53 ng/ml	97
87) Di-n-octyl phthalate	16.650	149	16101	88.66 ng/ml	92
88) Benzo(b)fluoranthene	17.409	252	42849	86.95 ng/ml	95
89) Benzo(k)fluoranthene	17.473	252	46284	89.68 ng/ml	93
90) Benzo(b+k)fluoranthene	17.473	252	94017	177.88 ng/ml	93
91) Benzo(e)pyrene	18.062	252	46138	89.38 ng/ml	98
92) Benzo(a)pyrene	18.180	252	29851	73.11 ng/ml	97
93) Perylene	18.377	252	47848	93.12 ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.709	276	41903	96.51 ng/ml	87
96) Dibenz(a,h)anthracene	20.779	278	39682	96.91 ng/ml	92
97) Benzo(g,h,i)perylene	21.250	276	38483	94.71 ng/ml	91

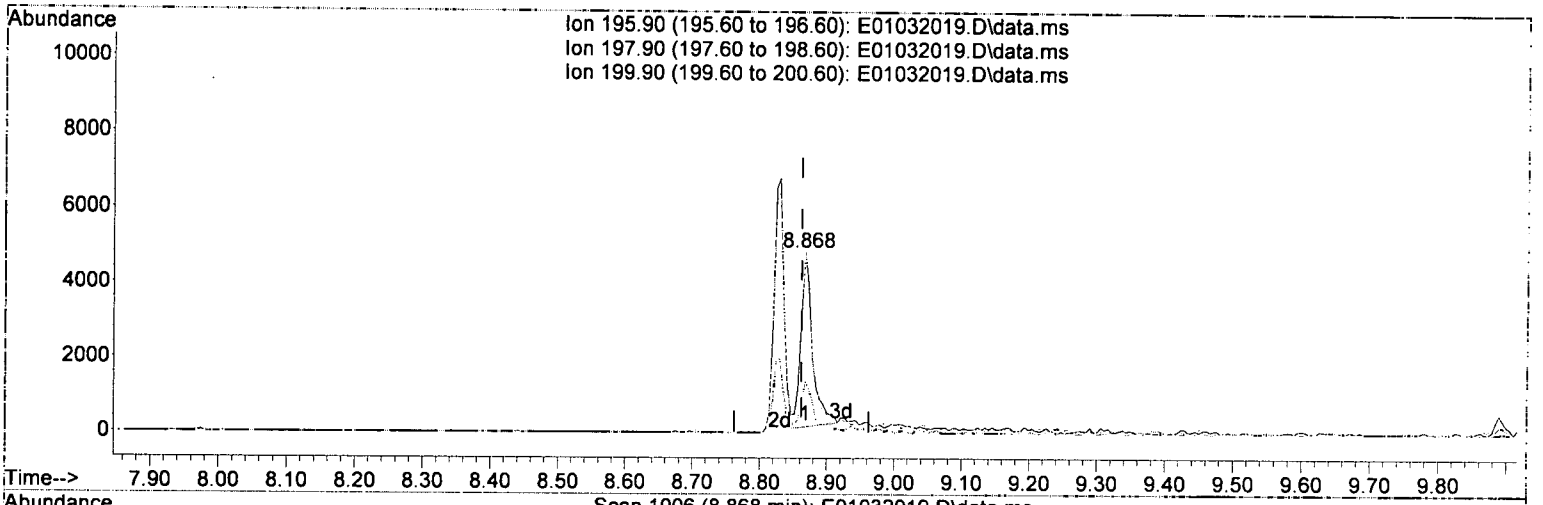
See MD

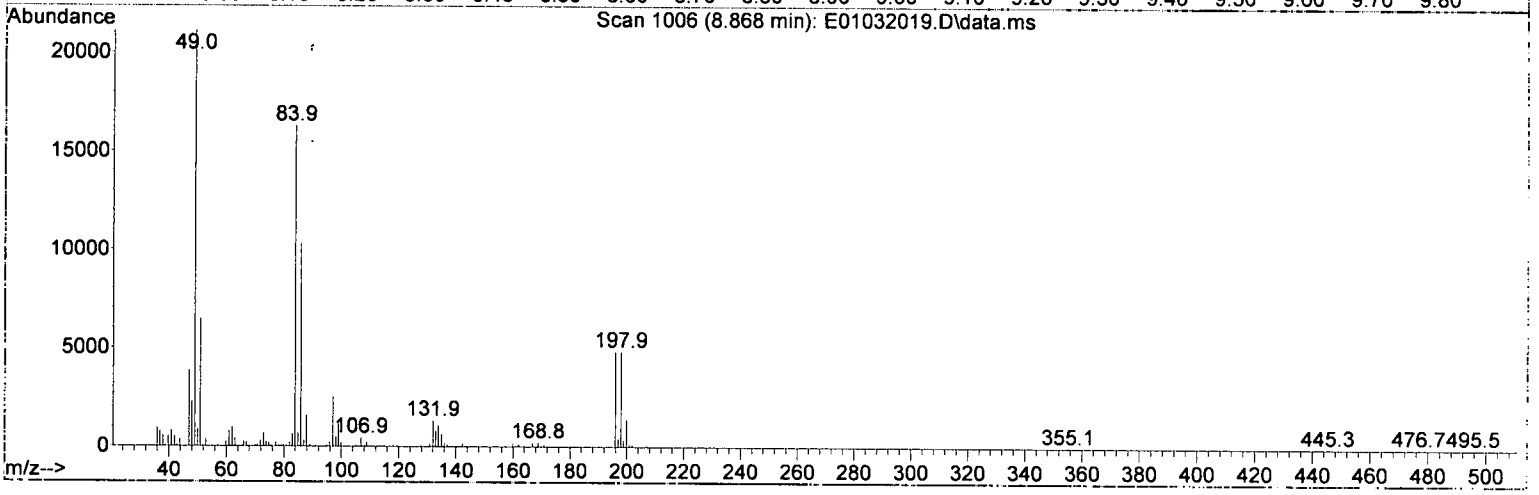
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032019.D
Acq On : 3 Jan 2020 19:47
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL3
Misc : 1x, A20A024@100
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032019.D\data.ms

(38) 2,4,5-Trichlorophenol (T)

8.868min (+ 0.005) 72.44 ng/ml

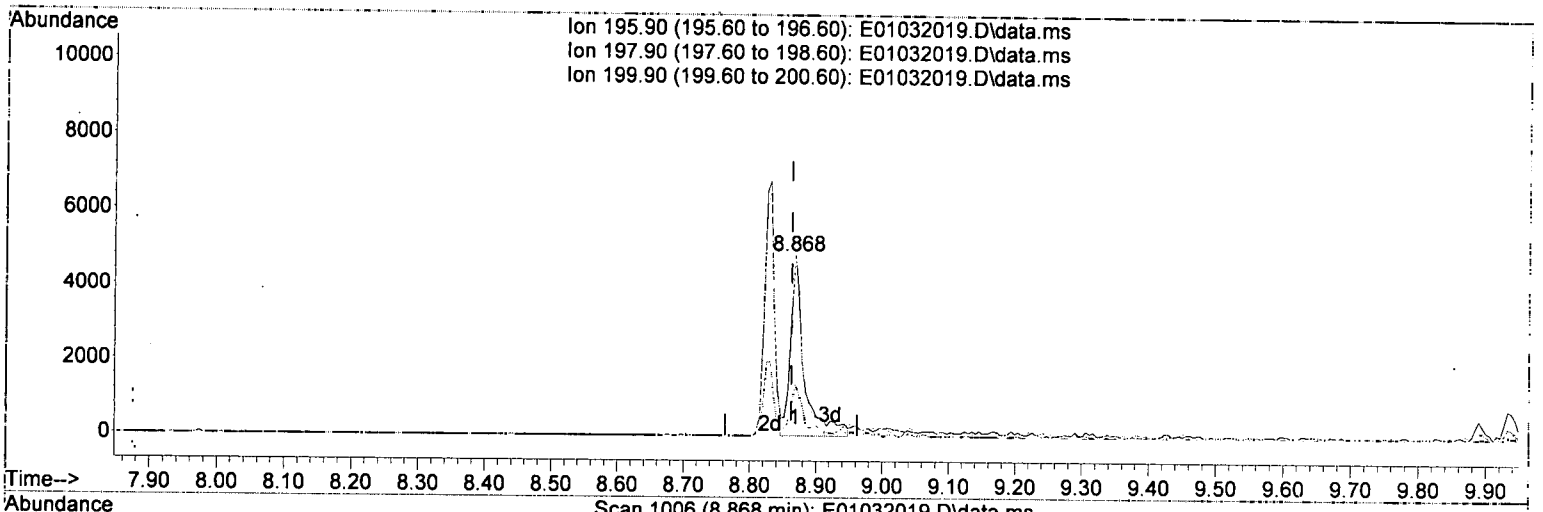
response 5698

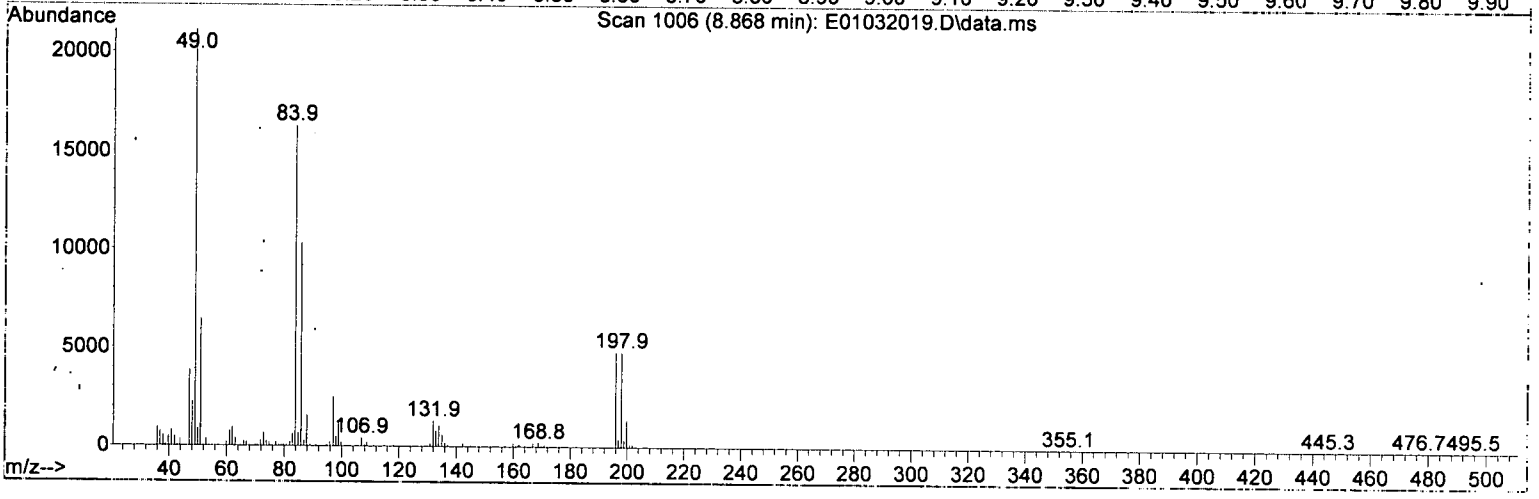
Ion	Exp%	Act%
195.90	100.00	100.00
197.90	95.70	100.23
199.90	30.70	28.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032019.D
Acq On : 3 Jan 2020 19:47
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL3
Misc : 1x, A20A024@100
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032019.D\data.ms

(38) 2,4,5-Trichlorophenol (T)

8.868min (+ 0.005) 83.22 ng/ml m

response 7063

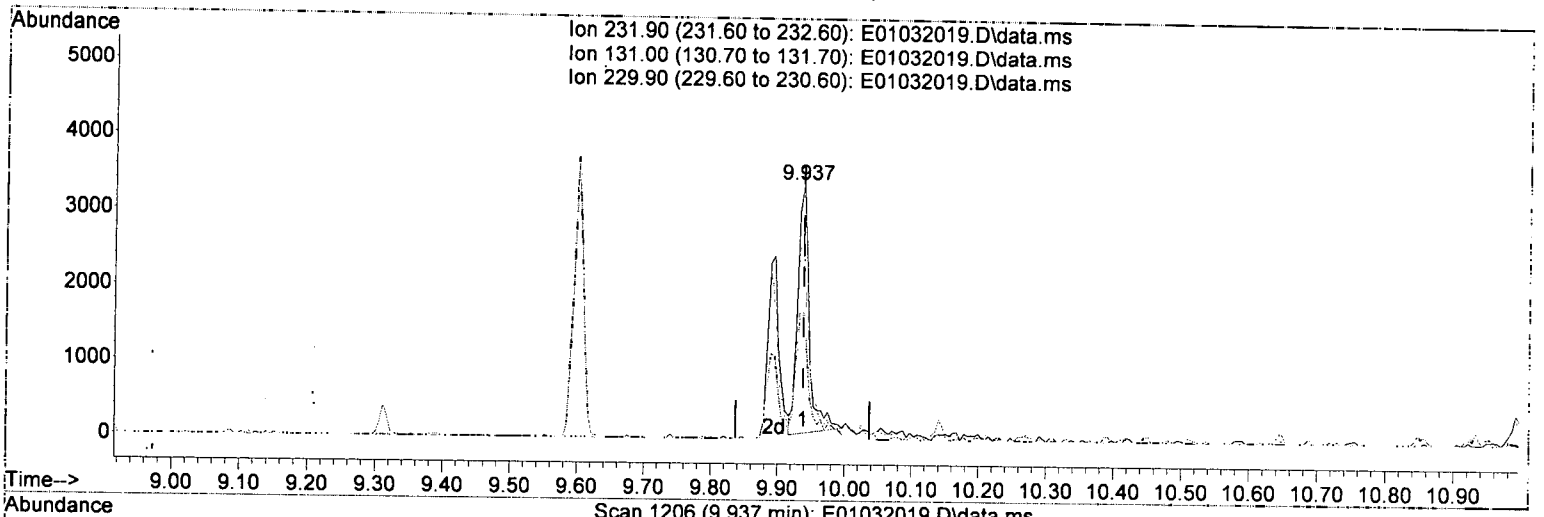
Ion	Exp%	Act%
195.90	100.00	100.00
197.90	95.70	100.23
199.90	30.70	28.60
0.00	0.00	0.00

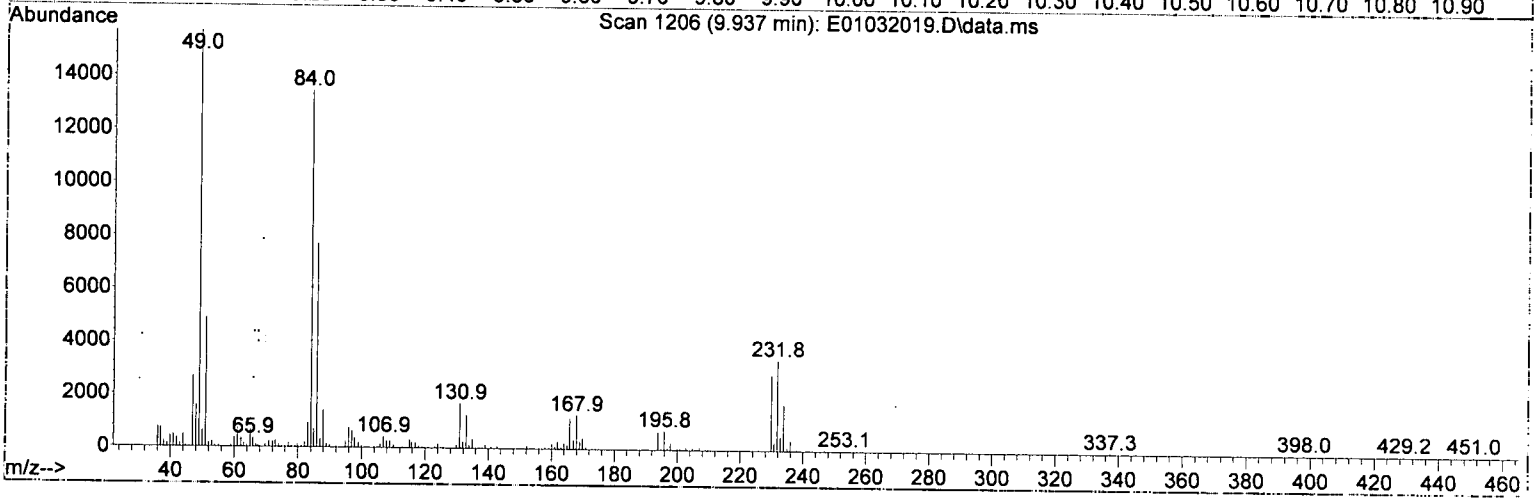
JK 1/6/20

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032019.D
Acq On : 3 Jan 2020 19:47
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL3
Misc : 1x, A20A024@100
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032019.D\data.ms

(57) 2,3,4,6-Tetrachlorophenol (T)

9.937min (-0.000) 68.09 ng/ml

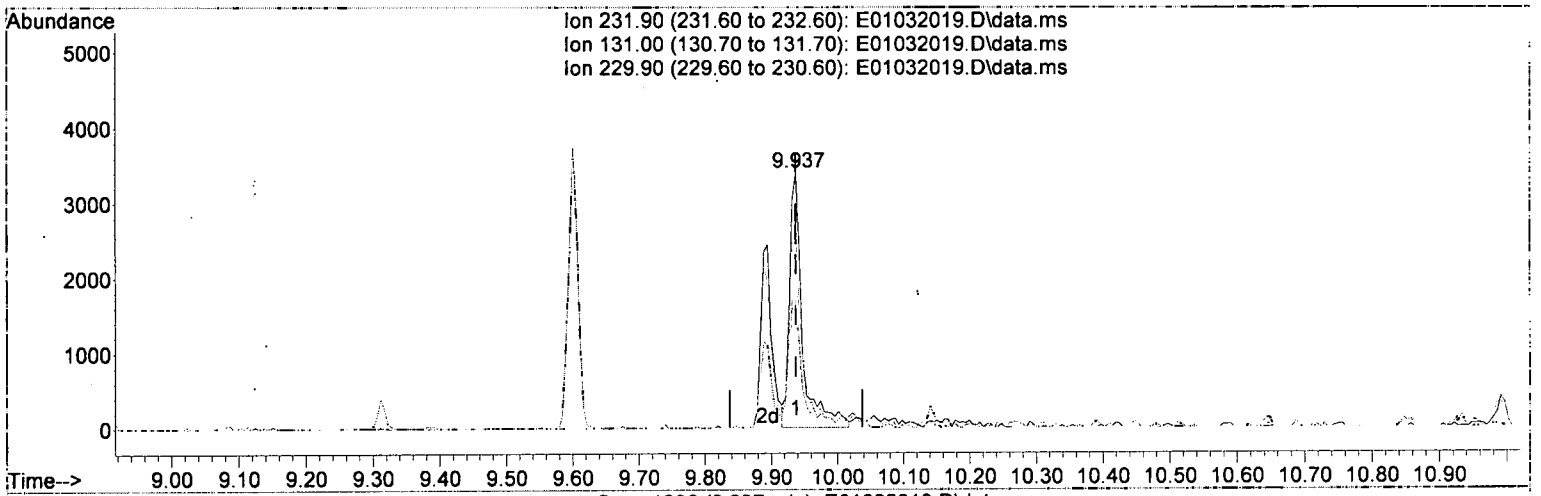
response 4055

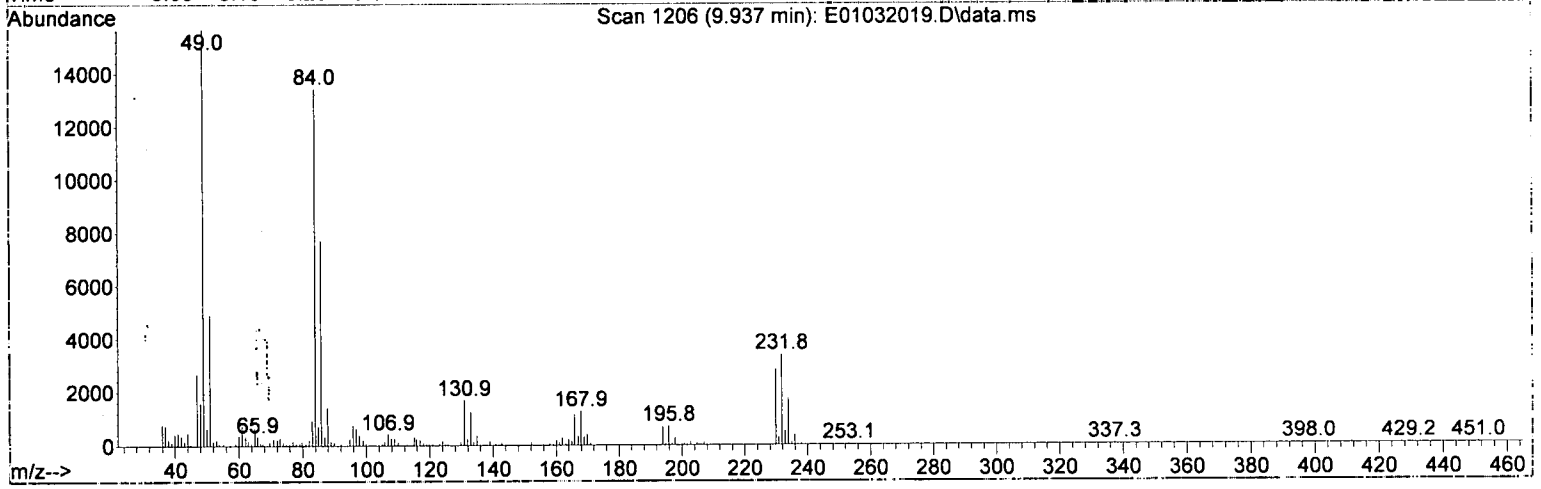
Ion	Exp%	Act%
231.90	100.00	100.00
131.00	44.50	49.65
229.90	78.30	83.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032019.D
Acq On : 3 Jan 2020 19:47
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL3
Misc : 1x, A20A024@100
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032019.D\data.ms

(57) 2,3,4,6-Tetrachlorophenol (T)

9.937min (-0.000) 74.41 ng/ml (m) 1/16/20

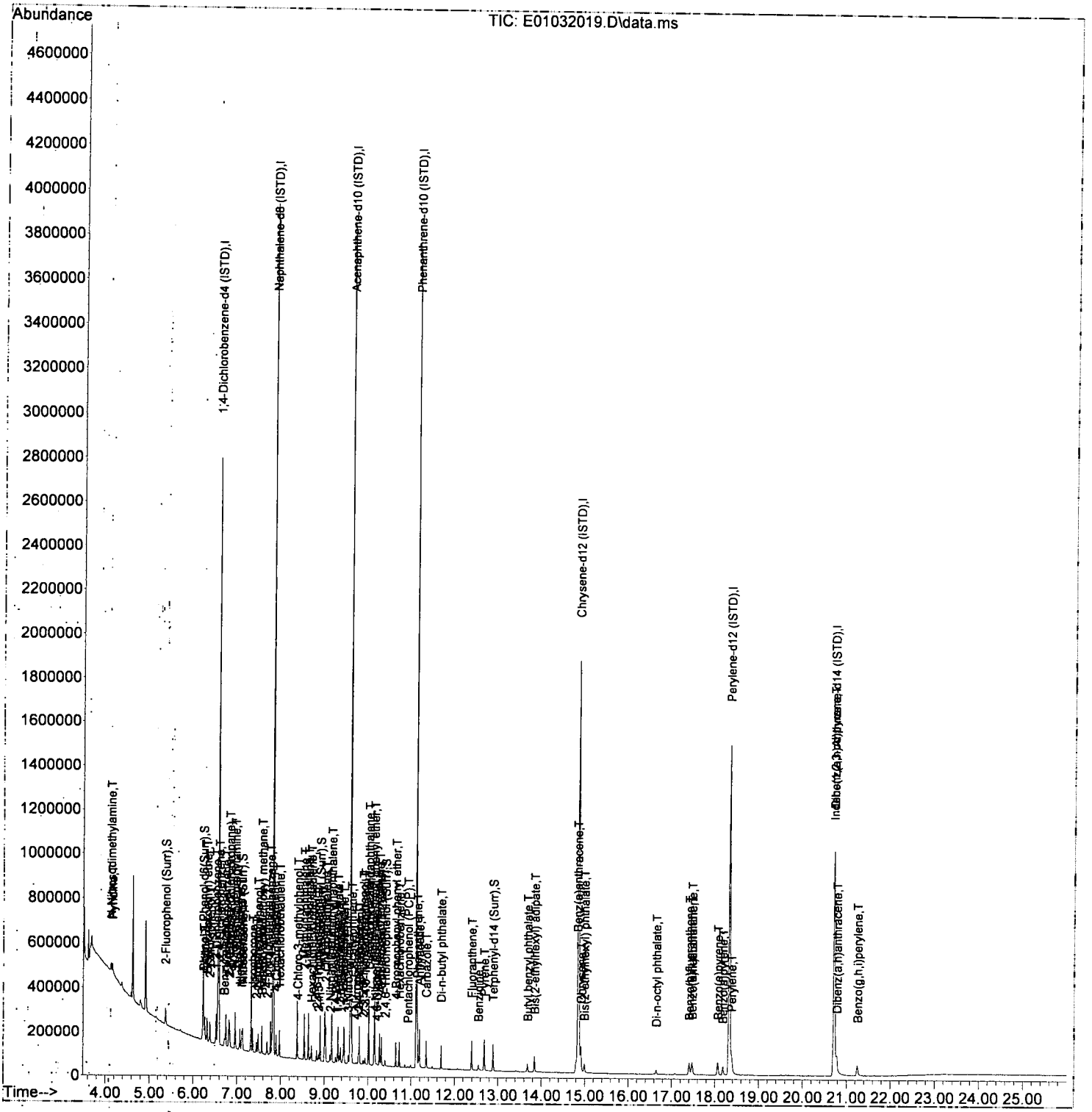
response 4744

Ion	Exp%	Act%
231.90	100.00	100.00
131.00	44.50	49.65
229.90	78.30	83.01
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032019.D
Acq On : 3 Jan 2020 19:47
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL3
Misc : 1x, A20A024@100
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032020.D
Acq On : 3 Jan 2020 20:24
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL4
Misc : 1x, A20A025@200
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:36 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JD 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.573	152	505078	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.825	136	1948419	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.600	162	851449	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1365517	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.858	240	1211977	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.329	264	1081159	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.715	292	758129	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.370	112	62277	193.47	ng/ml	0.00
5) Phenol-d6(Surr)	6.225	99	80402	193.67	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.108	82	70112	197.08	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.905	172	133144	212.08	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.397	330	8073	172.42	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.884	244	110393	202.49	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.118	74	47310	198.21	ng/ml	90
3) Pyridine	4.145	79	69006	189.64	ng/ml	85
6) Phenol	6.241	94	96640	205.49	ng/ml	96
7) Aniline	6.268	93	107597	202.54	ng/ml	98
8) Bis(2-chloroethyl) ether	6.316	93	80901	207.83	ng/ml	92
9) 2-Chlorophenol	6.380	128	67883	193.74	ng/ml	92
10) 1,3-Dichlorobenzene	6.525	146	82198	208.96	ng/ml	97
11) 1,4-Dichlorobenzene	6.589	146	83723	208.58	ng/ml	96
12) Benzyl alcohol	6.707	108	25558	172.45	ng/ml	92
13) 1,2-Dichlorobenzene	6.744	146	77787	204.90	ng/ml	97
14) 2-Methylphenol	6.814	107	53750	196.01	ng/ml	99
15) 2,2'-Oxybis(1-Chloropr...	6.830	45	109409	212.71	ng/ml	86
16) N-Nitrosodi-n-propylamine	6.958	70	49241	198.35	ng/ml	93
17) 3+4-Methylphenol	6.963	107	65704	194.45	ng/ml	94
18) Hexachloroethane	7.070	117	29865	206.73	ng/ml	89
20) Nitrobenzene	7.129	77	76114	210.43	ng/ml	90
22) Isophorone	7.354	82	120808	194.68	ng/ml	92
23) 2-Nitrophenol	7.445	139	26836	183.82	ng/ml	88
24) 2,4-Dimethylphenol	7.482	122	44227	172.35	ng/ml	98
25) Bis(2-chloroethoxy) me...	7.568	93	89063	207.67	ng/ml	98
26) Benzoic acid	7.552	105	754	967.66	ng/ml#	44
27) 2,4-Dichlorophenol	7.685	162	36037	172.92	ng/ml	94
28) 1,2,4-Trichlorobenzene	7.766	180	59589	205.32	ng/ml	96
29) Naphthalene	7.841	128	225156	217.92	ng/ml	99
30) 4-Chloroaniline	7.894	127	66808	187.38	ng/ml	94
31) Hexachlorobutadiene	7.974	225	29572	205.77	ng/ml	99
32) 4-Chloro-3-methylphenol	8.386	107	24993	150.43	ng/ml#	60
33) 2-Methylnaphthalene	8.536	142	137571	207.53	ng/ml	98
34) 1-Methylnaphthalene	8.638	142	129679	205.01	ng/ml	99
36) Hexachlorocyclopentadiene	8.707	237	20719	211.91	ng/ml	96
37) 2,4,6-Trichlorophenol	8.825	196	19198	165.51	ng/ml	99
38) 2,4,5-Trichlorophenol	8.868	196	16135	152.64	ng/ml	98
39) 1,1'-Biphenyl	9.007	154	152733	210.84	ng/ml	99
41) 2-Chloronaphthalene	9.028	162	114688	213.14	ng/ml	99
42) 2-Nitroaniline	9.135	138	22822	168.22	ng/ml	88
43) 2,6-Dimethylnaphthalene	9.167	156	109804	209.38	ng/ml	99

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032020.D
Acq On : 3 Jan 2020 20:24
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL4
Misc : 1x, A20A025@200
ALS Vial : 6, Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:36 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

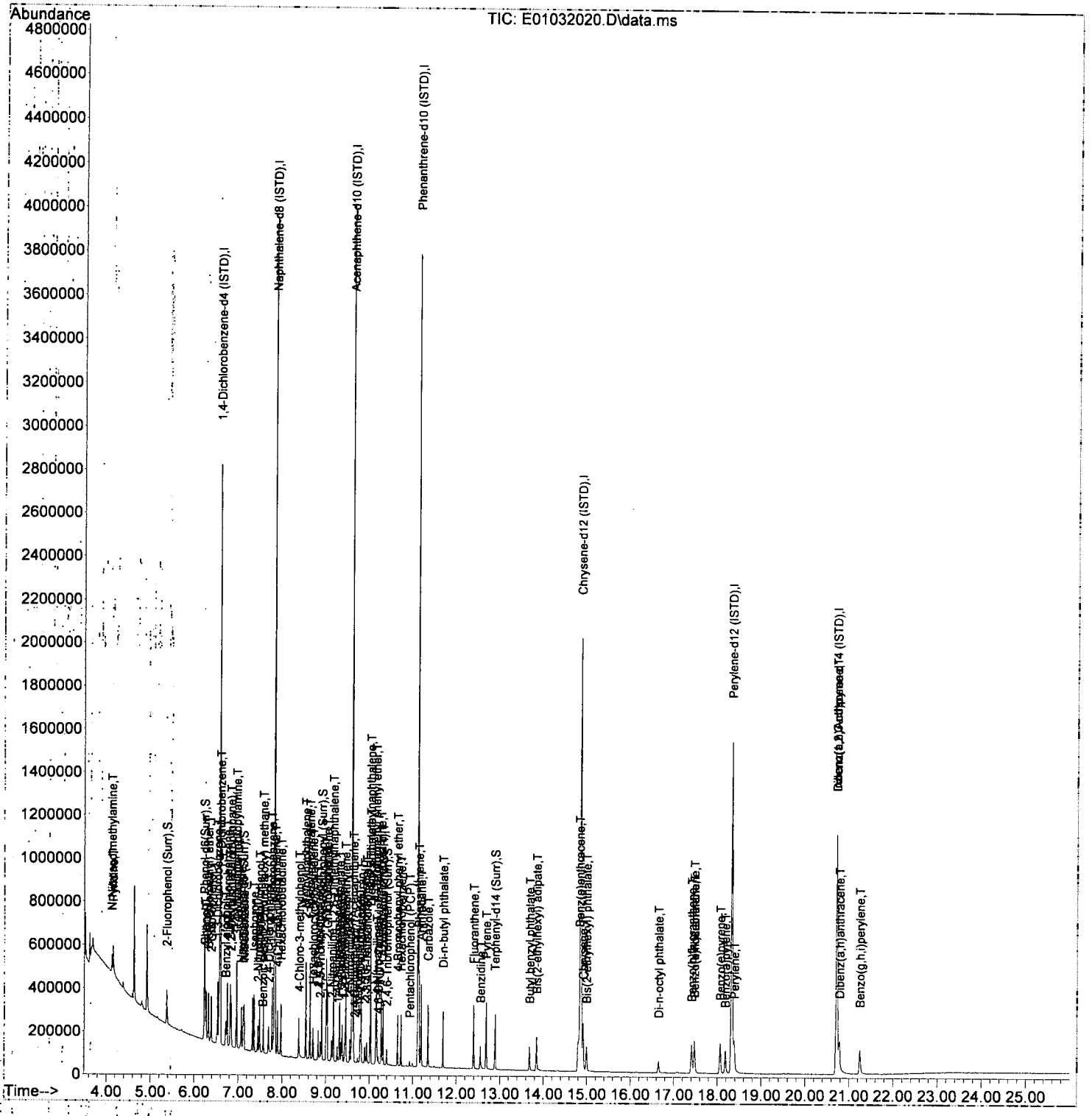
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44)	1,4-Dinitrobenzene	9.263	168	9528	163.97 ng/ml#	69
45)	Dimethyl phthalate	9.311	163	112983	205.19 ng/ml	99
46)	1,3-Dinitrobenzene	9.344	168	12395	133.76 ng/ml	82
47)	2,6-Dinitrotoluene	9.370	165	22331	170.75 ng/ml	76
48)	1,2-Dinitrobenzene	9.429	168	10056	167.51 ng/ml#	65
49)	Acenaphthylene	9.451	152	171273	211.21 ng/ml	99
50)	3-Nitroaniline	9.547	138	22176	154.61 ng/ml	91
51)	Acenaphthene	9.627	153	120057	212.75 ng/ml	99
52)	2,4-Dinitrophenol	9.659	184	485	206.85 ng/ml#	37
53)	4-Nitrophenol	9.729	139	5758	147.40 ng/ml	93
54)	2,4-Dinitrotoluene	9.782	165	23686	170.97 ng/ml	73
55)	Dibenzofuran	9.804	168	150152	204.82 ng/ml	93
56)	2,3,5,6-Tetrachlorophenol	9.889	232	10235	145.87 ng/ml	92
57)	2,3,4,6-Tetrachlorophenol	9.937	232	13647	153.82 ng/ml	99
58)	Diethyl phthalate	10.023	149	111049	202.66 ng/ml	99
59)	2,3,5-Trimethylnaphtha...	10.017	170	95784	206.68 ng/ml	98
60)	Fluorene	10.151	166	121651	209.45 ng/ml	99
61)	4-Chlorophenyl phenyl ...	10.146	204	53166	198.72 ng/ml	93
62)	4-Nitroaniline	10.167	138	20581	159.47 ng/ml	92
63)	4,6-Dinitro-2-methylph...	10.199	198	4708	205.20 ng/ml	88
65)	N-Nitrosodiphenylamine	10.264	169	91098	211.51 ng/ml	99
66)	Azobenzene (1,2-DPH)	10.306	77	120793	223.67 ng/ml	87
68)	4-Bromophenyl phenyl e...	10.643	248	26535	201.06 ng/ml	93
69)	Hexachlorobenzene	10.724	284	31086	215.42 ng/ml	93
70)	Pentachlorophenol (PCP)	10.921	266	3076	142.27 ng/ml	95
71)	Phenanthrene	11.130	178	165121	214.40 ng/ml	99
72)	Anthracene	11.183	178	151627	206.19 ng/ml	100
73)	Carbazole	11.344	167	129813	201.28 ng/ml	98
74)	Di-n-butyl phthalate	11.692	149	133508	169.84 ng/ml	99
75)	Fluoranthene	12.398	202	146342	199.31 ng/ml	98
76)	Benzidine	12.553	184	56616	332.88 ng/ml	97
77)	Pyrene	12.681	202	157997	206.81 ng/ml	99
80)	Butyl benzyl phthalate	13.681	149	35767	168.66 ng/ml	88
81)	Bis(2-ethylhexyl) adipate	13.847	129	38223	185.65 ng/ml	98
82)	3,3-Dichlorobenzidine	14.799	252	52705	Below Cal	99
83)	Benz(a)anthracene	14.831	228	132074	202.80 ng/ml	98
84)	Chrysene	14.911	228	135265	208.21 ng/ml	99
85)	Bis(2-ethylhexyl) phth...	14.992	149	50389	175.59 ng/ml	97
87)	Di-n-octyl phthalate	16.650	149	44543	133.49 ng/ml	94
88)	Benzo(b)fluoranthene	17.409	252	99967	186.76 ng/ml	96
89)	Benzo(k)fluoranthene	17.473	252	111777	198.32 ng/ml	98
90)	Benzo(b+k)fluoranthene	17.473	252	220010	385.27 ng/ml	98
91)	Benzo(e)pyrene	18.062	252	102583	185.24 ng/ml	99
92)	Benzo(a)pyrene	18.180	252	77630	166.34 ng/ml	97
93)	Perylene	18.388	252	102502	195.60 ng/ml	100
95)	Indeno(1,2,3-cd)pyrene	20.715	276	87517	196.79 ng/ml	90
96)	Dibenz(a,h)anthracene	20.779	278	84660	201.87 ng/ml	93
97)	Benzo(g,h,i)perylene	21.244	276	86439	207.70 ng/ml	88

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

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032020.D
Acq On : 3 Jan 2020 20:24
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL4
Misc : 1x, A20A025@200
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:36 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032021.D
Acq On : 3 Jan 2020 21:00
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL5
Misc : 1x, A20A026@500
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:43 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JK 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.578	152	503934	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.825	136	1958057	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.600	162	888072	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1437447	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.858	240	1287737	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.335	264	1154279	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.720	292	829373	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.370	112	160746	500.51	ng/ml	0.00
5) Phenol-d6(Surr)	6.225	99	210566	508.37	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.108	82	188653	531.49	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.905	172	346331	528.92	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.403	330	27900	491.73	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.884	244	296503	511.86	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.107	74	121424	509.87	ng/ml	92
3) Pyridine	4.129	79	180907	498.28	ng/ml	94
6) Phenol	6.241	94	250140	533.09	ng/ml	97
7) Aniline	6.268	93	277054	522.72	ng/ml	97
8) Bis(2-chloroethyl) ether	6.316	93	204168	525.70	ng/ml	93
9) 2-Chlorophenol	6.380	128	177728	508.39	ng/ml	92
10) 1,3-Dichlorobenzene	6.525	146	202945	517.10	ng/ml	97
11) 1,4-Dichlorobenzene	6.594	146	207838	518.96	ng/ml	98
12) Benzyl alcohol	6.707	108	84038	489.44	ng/ml	93
13) 1,2-Dichlorobenzene	6.744	146	196864	519.74	ng/ml	99
14) 2-Methylphenol	6.814	107	143450	524.29	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	6.830	45	269194	524.54	ng/ml	87
16) N-Nitrosodi-n-propylamine	6.958	70	134624	543.52	ng/ml	95
17) 3+4-Methylphenol	6.963	107	179686	532.99	ng/ml	96
18) Hexachloroethane	7.070	117	75990	527.21	ng/ml	89
20) Nitrobenzene	7.129	77	196063	543.27	ng/ml	91
22) Isophorone	7.359	82	333964	535.53	ng/ml	95
23) 2-Nitrophenol	7.445	139	78411	490.47	ng/ml	92
24) 2,4-Dimethylphenol	7.482	122	122100	473.48	ng/ml	99
25) Bis(2-chloroethoxy) me...	7.568	93	229674	532.89	ng/ml	97
26) Benzoic acid	7.541	105	8514	1046.68	ng/ml	91
27) 2,4-Dichlorophenol	7.685	162	107012	491.26	ng/ml	97
28) 1,2,4-Trichlorobenzene	7.766	180	151524	519.51	ng/ml	99
29) Naphthalene	7.846	128	558795	538.16	ng/ml	100
30) 4-Chloroaniline	7.894	127	187047	522.03	ng/ml	96
31) Hexachlorobutadiene	7.974	225	74852	518.28	ng/ml	99
32) 4-Chloro-3-methylphenol	8.386	107	92552	451.83	ng/ml	89
33) 2-Methylnaphthalene	8.541	142	356479	535.10	ng/ml	98
34) 1-Methylnaphthalene	8.638	142	331021	520.73	ng/ml	99
36) Hexachlorocyclopentadiene	8.707	237	61510	577.43	ng/ml	96
37) 2,4,6-Trichlorophenol	8.825	196	64304	475.02	ng/ml	98
38) 2,4,5-Trichlorophenol	8.868	196	56224	441.33	ng/ml	98
39) 1,1'-Biphenyl	9.007	154	393702	521.08	ng/ml	99
41) 2-Chloronaphthalene	9.033	162	296309	527.95	ng/ml	99
42) 2-Nitroaniline	9.135	138	77021	479.49	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.167	156	293588	536.75	ng/ml	99

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032021.D
Acq On : 3 Jan 2020 21:00
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL5
Misc : 1x, A20A026@500
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:43 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

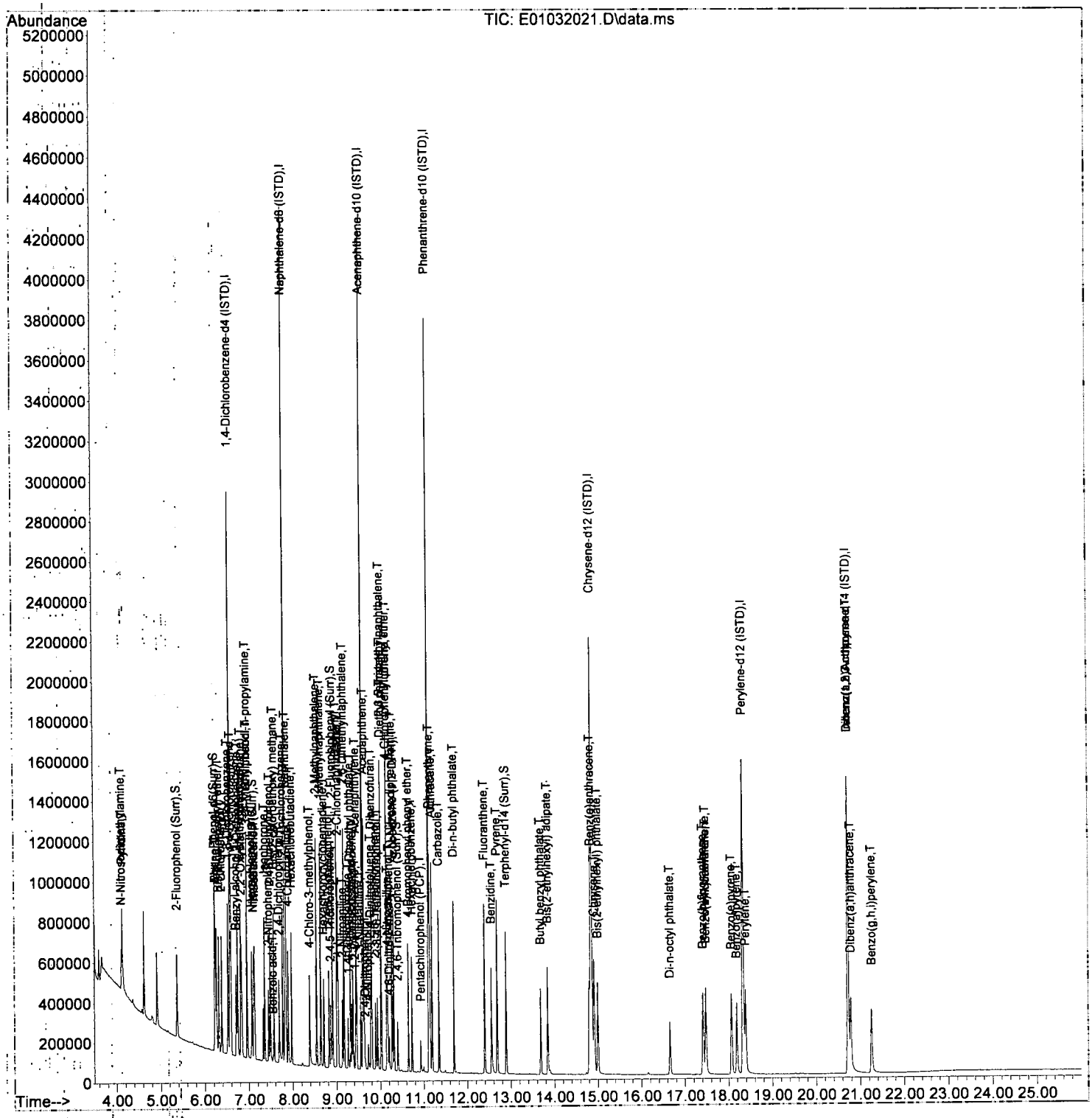
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,4-Dinitrobenzene	9.263	168	33901	480.38	ng/ml#	73
45) Dimethyl phthalate	9.311	163	309349	538.65	ng/ml	99
46) 1,3-Dinitrobenzene	9.344	168	42174	436.36	ng/ml	90
47) 2,6-Dinitrotoluene	9.370	165	68199	500.00	ng/ml	76
48) 1,2-Dinitrobenzene	9.429	168	30873	493.07	ng/ml	77
49) Acenaphthylene	9.451	152	456186	539.36	ng/ml	99
50) 3-Nitroaniline	9.547	138	67407	450.59	ng/ml	88
51) Acenaphthene	9.632	153	314131	533.70	ng/ml	100
52) 2,4-Dinitrophenol	9.654	184	6170	344.24	ng/ml	68
53) 4-Nitrophenol	9.723	139	28987	380.76	ng/ml	91
54) 2,4-Dinitrotoluene	9.782	165	80488	486.89	ng/ml	79
55) Dibenzofuran	9.804	168	397757	520.21	ng/ml	95
56) 2,3,5,6-Tetrachlorophenol	9.889	232	42876	452.78	ng/ml	94
57) 2,3,4,6-Tetrachlorophenol	9.937	232	48290	444.07	ng/ml	98
58) Diethyl phthalate	10.023	149	308387	539.57	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.017	170	256000	529.62	ng/ml	99
60) Fluorene	10.151	166	327226	540.17	ng/ml	98
61) 4-Chlorophenyl phenyl ...	10.146	204	141768	508.05	ng/ml	93
62) 4-Nitroaniline	10.167	138	65864	456.10	ng/ml	93
63) 4,6-Dinitro-2-methylph...	10.205	198	24774	450.78	ng/ml	96
65) N-Nitrosodiphenylamine	10.269	169	254198	560.67	ng/ml	98
66) Azobenzene (1,2-DPH)	10.306	77	337552	593.76	ng/ml	87
68) 4-Bromophenyl phenyl e...	10.649	248	73086	526.08	ng/ml	98
69) Hexachlorobenzene	10.729	284	80846	532.22	ng/ml	97
70) Pentachlorophenol (PCP)	10.927	266	17757	408.00	ng/ml	97
71) Phenanthrene	11.135	178	436435	538.32	ng/ml	100
72) Anthracene	11.183	178	419778	542.27	ng/ml	100
73) Carbazole	11.344	167	365307	538.07	ng/ml	98
74) Di-n-butyl phthalate	11.692	149	425756	514.50	ng/ml	99
75) Fluoranthene	12.398	202	409865	530.28	ng/ml	97
76) Benzidine	12.553	184	266046	859.39	ng/ml	97
77) Pyrene	12.681	202	434797	540.65	ng/ml	99
80) Butyl benzyl phthalate	13.681	149	138393	452.49	ng/ml	89
81) Bis(2-ethylhexyl) adipate	13.847	129	135054	441.50	ng/ml	98
82) 3,3-Dichlorobenzidine	14.805	252	176527	Below Cal		99
83) Benz(a)anthracene	14.837	228	370992	536.14	ng/ml	98
84) Chrysene	14.917	228	358725	519.69	ng/ml	99
85) Bis(2-ethylhexyl) phth...	14.997	149	208354	497.18	ng/ml	99
87) Di-n-octyl phthalate	16.655	149	217227	381.87	ng/ml	96
88) Benzo(b)fluoranthene	17.415	252	308921	518.21	ng/ml	96
89) Benzo(k)fluoranthene	17.479	252	329548	529.25	ng/ml	95
90) Benzo(b+k)fluoranthene	17.479	252	658825	1044.12	ng/ml	95
91) Benzo(e)pyrene	18.062	252	306473	502.08	ng/ml	99
92) Benzo(a)pyrene	18.185	252	259206	488.11	ng/ml	98
93) Perylene	18.388	252	282076	504.17	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.720	276	248473	510.78	ng/ml	91
96) Dibenz(a,h)anthracene	20.784	278	242278	528.07	ng/ml	94
97) Benzo(g,h,i)perylene	21.255	276	259055	568.99	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032021.D
Acq On : 3 Jan 2020 21:00
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL5
Misc : 1x, A20A026@500
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:43 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032022.D
Acq On : 3 Jan 2020 21:37
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL6
Misc : 1x, A20A027@1000
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:48 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JR 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.573	152	499189	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.825	136	1906856	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.600	162	860224	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1377611	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.863	240	1239637	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.329	264	1104605	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.720	292	815694	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.370	112	336372	1057.32	ng/ml	0.00
5) Phenol-d6(Surr)	6.225	99	429205	1046.08	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.108	82	366422	1042.12	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.905	172	661648	1043.18	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.403	330	58198	1017.38	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.884	244	574970	1031.11	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.107	74	246321	1044.15	ng/ml	94
3) Pyridine	4.129	79	381152	1059.81	ng/ml	93
6) Phenol	6.241	94	499382	1074.39	ng/ml	96
7) Aniline	6.268	93	554511	1056.14	ng/ml	97
8) Bis(2-chloroethyl) ether	6.316	93	395373	1027.69	ng/ml	92
9) 2-Chlorophenol	6.380	128	359999	1039.56	ng/ml	92
10) 1,3-Dichlorobenzene	6.525	146	399979	1028.82	ng/ml	98
11) 1,4-Dichlorobenzene	6.594	146	407235	1026.50	ng/ml	98
12) Benzyl alcohol	6.707	108	191064	1053.81	ng/ml	92
13) 1,2-Dichlorobenzene	6.744	146	384885	1025.79	ng/ml	99
14) 2-Methylphenol	6.814	107	280604	1035.32	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	6.830	45	519660	1022.21	ng/ml	87
16) N-Nitrosodi-n-propylamine	6.958	70	267406	1089.87	ng/ml	96
17) 3+4-Methylphenol	6.963	107	354520	1061.58	ng/ml	94
18) Hexachloroethane	7.070	117	149765	1048.92	ng/ml	91
20) Nitrobenzene	7.129	77	379636	1061.92	ng/ml	93
22) Isophorone	7.354	82	663603	1092.70	ng/ml	92
23) 2-Nitrophenol	7.445	139	174051	1075.16	ng/ml	91
24) 2,4-Dimethylphenol	7.482	122	252097	1003.83	ng/ml	97
25) Bis(2-chloroethoxy) me...	7.568	93	441727	1052.42	ng/ml	99
26) Benzoic acid	7.563	105	81626	1758.59	ng/ml	94
27) 2,4-Dichlorophenol	7.686	162	226242	1038.74	ng/ml	97
28) 1,2,4-Trichlorobenzene	7.766	180	291731	1027.07	ng/ml	98
29) Naphthalene	7.846	128	1071313	1059.47	ng/ml	100
30) 4-Chloroaniline	7.894	127	340843	976.80	ng/ml	95
31) Hexachlorobutadiene	7.974	225	145079	1031.52	ng/ml	99
32) 4-Chloro-3-methylphenol	8.381	107	208385	977.96	ng/ml	91
33) 2-Methylnaphthalene	8.541	142	678753	1046.22	ng/ml	99
34) 1-Methylnaphthalene	8.638	142	638851	1031.96	ng/ml	99
36) Hexachlorocyclopentadiene	8.707	237	123772	1166.98	ng/ml	98
37) 2,4,6-Trichlorophenol	8.825	196	136129	997.50	ng/ml	99
38) 2,4,5-Trichlorophenol	8.862	196	125855	964.97	ng/ml	100
39) 1,1'-Biphenyl	9.007	154	756962	1034.31	ng/ml	99
41) 2-Chloronaphthalene	9.033	162	564377	1038.14	ng/ml	99
42) 2-Nitroaniline	9.135	138	162558	995.36	ng/ml	90
43) 2,6-Dimethylnaphthalene	9.167	156	557856	1052.92	ng/ml	98

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Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032022.D
Acq On : 3 Jan 2020 21:37
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL6
Misc : 1x, A20A027@1000
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:48 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

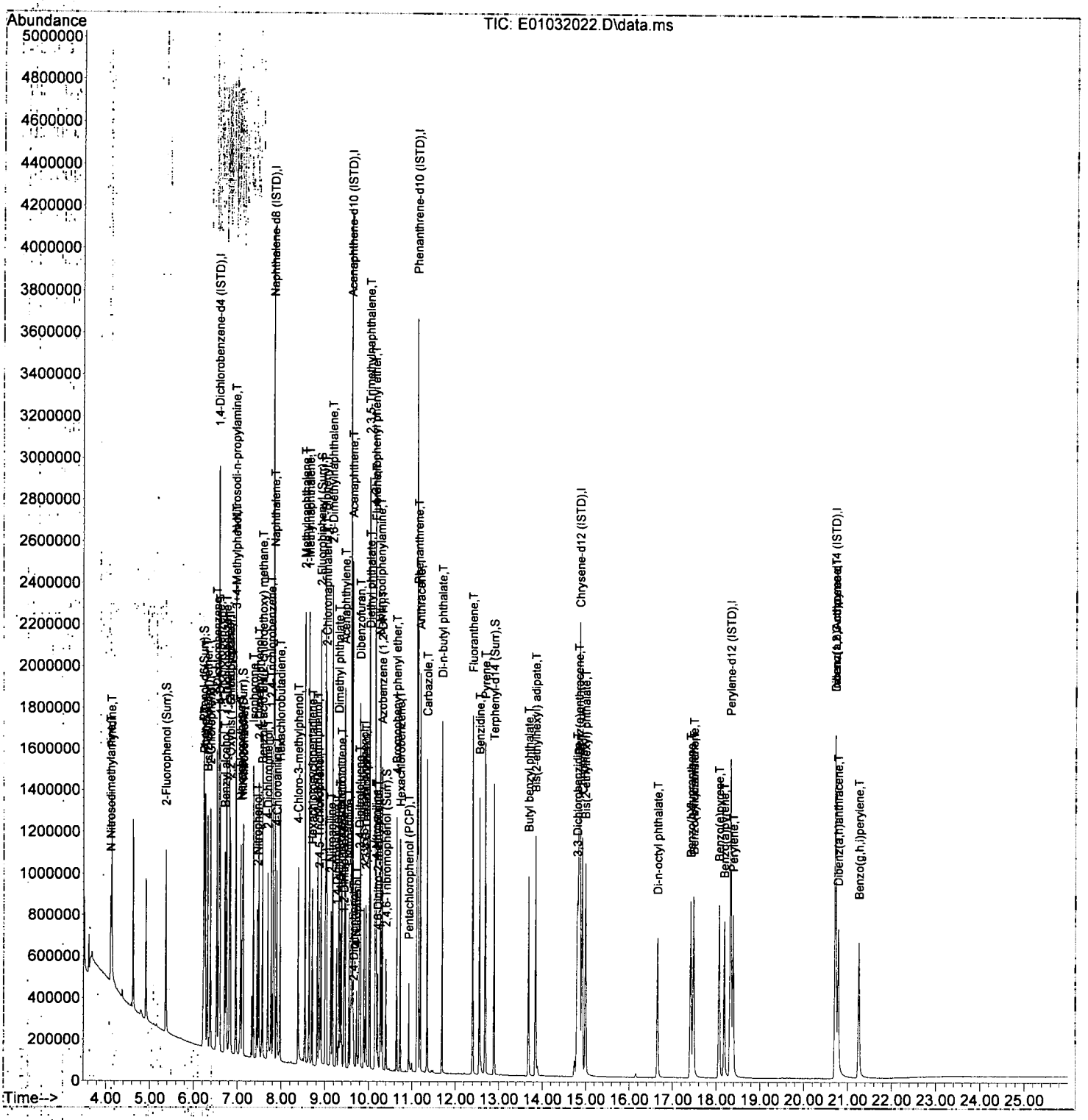
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,4-Dinitrobenzene	9.263	168	75328	1033.88	ng/ml	80
45) Dimethyl phthalate	9.312	163	592242	1064.62	ng/ml	99
46) 1,3-Dinitrobenzene	9.344	168	88966	950.31	ng/ml	89
47) 2,6-Dinitrotoluene	9.376	165	135677	1026.91	ng/ml	88
48) 1,2-Dinitrobenzene	9.429	168	62315	1027.45	ng/ml#	71
49) Acenaphthylene	9.456	152	885311	1080.60	ng/ml	100
50) 3-Nitroaniline	9.547	138	131598	908.16	ng/ml	89
51) Acenaphthene	9.632	153	600226	1052.78	ng/ml	99
52) 2,4-Dinitrophenol	9.654	184	28980	854.30	ng/ml	84
53) 4-Nitrophenol	9.723	139	77659	878.82	ng/ml	97
54) 2,4-Dinitrotoluene	9.788	165	163810	986.06	ng/ml	88
55) Dibenzofuran	9.804	168	752309	1015.77	ng/ml	96
56) 2,3,5,6-Tetrachlorophenol	9.889	232	96867	974.57	ng/ml	93
57) 2,3,4,6-Tetrachlorophenol	9.937	232	101935	917.47	ng/ml	97
58) Diethyl phthalate	10.028	149	586678	1059.72	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.018	170	498210	1064.08	ng/ml	100
60) Fluorene	10.157	166	625886	1066.63	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.146	204	268925	994.93	ng/ml	90
62) 4-Nitroaniline	10.167	138	132981	921.29	ng/ml	88
63) 4,6-Dinitro-2-methylph...	10.205	198	68897	998.79	ng/ml	91
65) N-Nitrosodiphenylamine	10.269	169	485424	1117.17	ng/ml	99
66) Azobenzene (1,2-DPH)	10.306	77	652931	1198.39	ng/ml	86
68) 4-Bromophenyl phenyl e...	10.643	248	140593	1055.97	ng/ml	91
69) Hexachlorobenzene	10.729	284	154747	1062.97	ng/ml	98
70) Pentachlorophenol (PCP)	10.921	266	48541	966.87	ng/ml	99
71) Phenanthrene	11.135	178	825988	1063.06	ng/ml	100
72) Anthracene	11.184	178	811319	1093.58	ng/ml	100
73) Carbazole	11.349	167	717912	1103.37	ng/ml	99
74) Di-n-butyl phthalate	11.692	149	878624	1107.89	ng/ml	99
75) Fluoranthene	12.398	202	812591	1096.98	ng/ml	97
76) Benzidine	12.553	184	657315	1904.67	ng/ml	97
77) Pyrene	12.681	202	846544	1098.36	ng/ml	99
80) Butyl benzyl phthalate	13.681	149	317197	982.44	ng/ml	91
81) Bis(2-ethylhexyl) adipate	13.847	129	303687	929.87	ng/ml	99
82) 3,3-Dichlorobenzidine	14.805	252	315549	2799.20	ng/ml	98
83) Benz(a)anthracene	14.837	228	720837	1082.15	ng/ml	99
84) Chrysene	14.917	228	691431	1040.56	ng/ml	99
85) Bis(2-ethylhexyl) phth...	14.992	149	477482	1080.70	ng/ml	99
87) Di-n-octyl phthalate	16.655	149	592275	939.98	ng/ml	96
88) Benzo(b)fluoranthene	17.415	252	625076	1067.51	ng/ml	96
89) Benzo(k)fluoranthene	17.484	252	652096	1082.05	ng/ml	97
90) Benzo(b+k)fluoranthene	17.484	252	1314574	2139.68	ng/ml	97
91) Benzo(e)pyrene	18.062	252	608947	1027.20	ng/ml	99
92) Benzo(a)pyrene	18.185	252	532525	1015.54	ng/ml	98
93) Perylene	18.388	252	551305	1029.69	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.720	276	487977	1019.84	ng/ml	92
96) Dibenz(a,h)anthracene	20.784	278	474782	1052.20	ng/ml	94
97) Benzo(g,h,i)perylene	21.255	276	513422	1146.60	ng/ml	90

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

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032022.D
Acq On : 3 Jan 2020 21:37
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL6
Misc : 1x, A20A027@1000
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:48 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



07/15/20 Anchor QEA, LLC - Casco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1153 of 1443

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032023.D
Acq On : 3 Jan 2020 22:13
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL7
Misc : 1x, A20A028@2000
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:54 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JJL 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.578	152	504695	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.825	136	1979184	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.600	162	924869	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.114	188	1520776	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.863	240	1358849	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.335	264	1234324	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.726	292	968418	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.370	112	695847	2163.39	ng/ml	0.00
5) Phenol-d6(Surr)	6.231	99	892079	2150.49	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.113	82	776886	2185.40	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.910	172	1402629	2056.87	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.403	330	140215	2110.58	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.890	244	1290307	2110.93	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.102	74	509539	2136.37	ng/ml	97
3) Pyridine	4.118	79	790087	2172.91	ng/ml	95
6) Phenol	6.241	94	1027417	2186.30	ng/ml	95
7) Aniline	6.268	93	1183430	2229.41	ng/ml	96
8) Bis(2-chloroethyl) ether	6.322	93	806895	2074.48	ng/ml	94
9) 2-Chlorophenol	6.381	128	738054	2108.01	ng/ml	91
10) 1,3-Dichlorobenzene	6.525	146	813354	2069.27	ng/ml	97
11) 1,4-Dichlorobenzene	6.595	146	816661	2036.06	ng/ml	98
12) Benzyl alcohol	6.707	108	437408	2221.01	ng/ml	94
13) 1,2-Dichlorobenzene	6.744	146	779040	2053.64	ng/ml	99
14) 2-Methylphenol	6.814	107	595298	2172.47	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	6.835	45	1034365	2012.48	ng/ml	89
16) N-Nitrosodi-n-propylamine	6.964	70	556819	2244.68	ng/ml	97
17) 3+4-Methylphenol	6.964	107	753866	2232.76	ng/ml	97
18) Hexachloroethane	7.071	117	306866	2125.78	ng/ml	90
20) Nitrobenzene	7.129	77	788233	2180.81	ng/ml	92
22) Isophorone	7.359	82	1425407	2261.33	ng/ml	93
23) 2-Nitrophenol	7.445	139	368704	2117.35	ng/ml	90
24) 2,4-Dimethylphenol	7.482	122	549720	2108.94	ng/ml	99
25) Bis(2-chloroethoxy) me...	7.568	93	917504	2106.09	ng/ml	99
26) Benzoic acid	7.600	105	383378	3965.82	ng/ml	93
27) 2,4-Dichlorophenol	7.691	162	504397	2144.22	ng/ml	96
28) 1,2,4-Trichlorobenzene	7.766	180	603934	2048.52	ng/ml	98
29) Naphthalene	7.846	128	2186779	2083.56	ng/ml	99
30) 4-Chloroaniline	7.900	127	791193	2184.58	ng/ml	97
31) Hexachlorobutadiene	7.974	225	298064	2041.80	ng/ml	100
32) 4-Chloro-3-methylphenol	8.386	107	502114	2131.54	ng/ml	97
33) 2-Methylnaphthalene	8.541	142	1421681	2111.28	ng/ml	99
34) 1-Methylnaphthalene	8.643	142	1331533	2072.28	ng/ml	99
36) Hexachlorocyclopentadiene	8.707	237	270751	2285.37	ng/ml	98
37) 2,4,6-Trichlorophenol	8.825	196	320738	2102.96	ng/ml	99
38) 2,4,5-Trichlorophenol	8.868	196	310840	2092.47	ng/ml	99
39) 1,1'-Biphenyl	9.012	154	1613691	2050.82	ng/ml	99
41) 2-Chloronaphthalene	9.033	162	1207366	2065.66	ng/ml	98
42) 2-Nitroaniline	9.135	138	388148	2097.64	ng/ml	86
43) 2,6-Dimethylnaphthalene	9.173	156	1193853	2095.83	ng/ml	98

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032023.D
Acq On : 3 Jan 2020 22:13
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL7
Misc : 1x, A20A028@2000
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:54 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

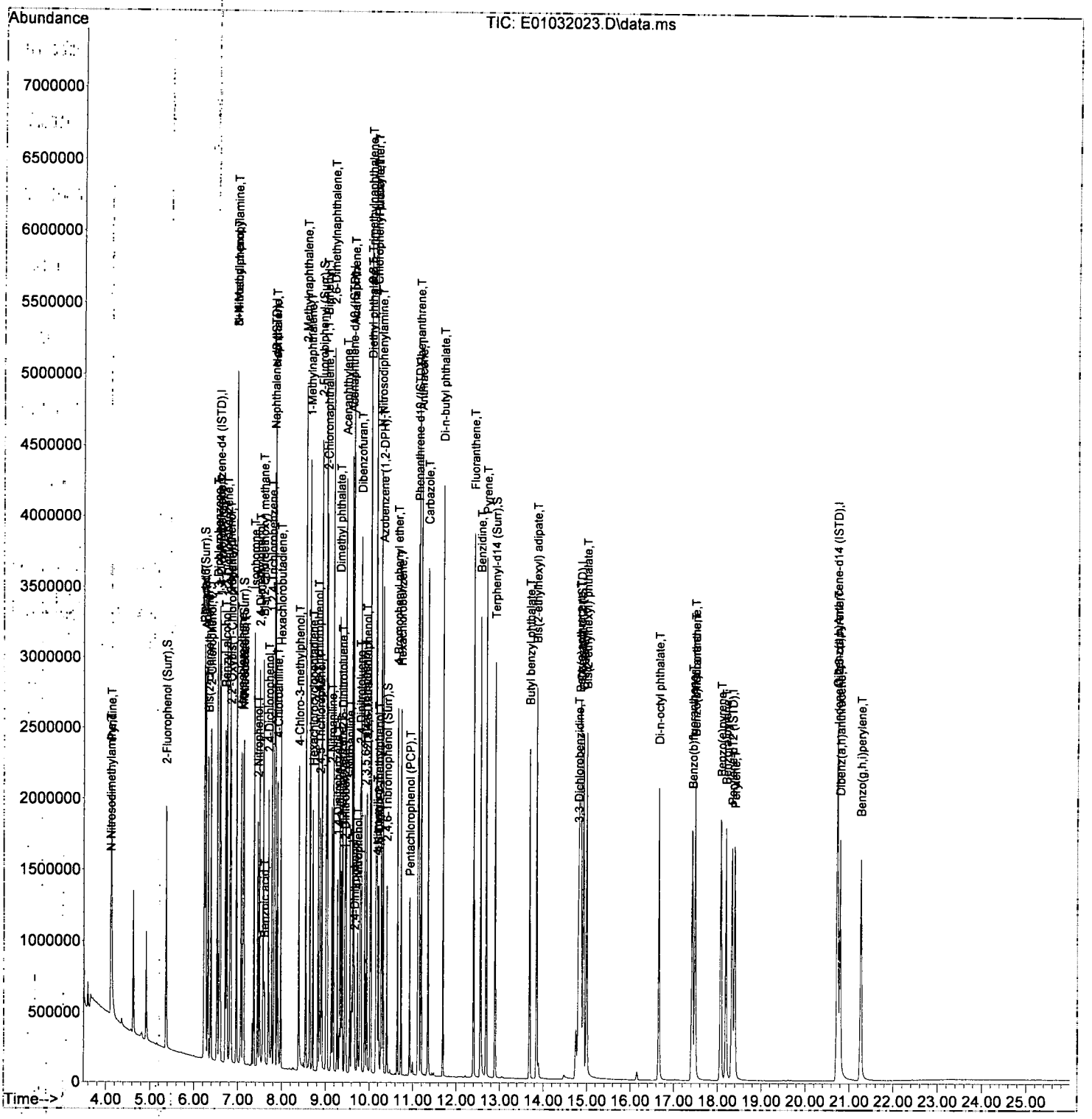
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,4-Dinitrobenzene	9.263	168	183130	2173.10	ng/ml#	71
45) Dimethyl phthalate	9.317	163	1301962	2176.84	ng/ml	99
46) 1,3-Dinitrobenzene	9.349	168	210030	2086.67	ng/ml	90
47) 2,6-Dinitrotoluene	9.376	165	307800	2166.83	ng/ml	83
48) 1,2-Dinitrobenzene	9.435	168	144775	2220.20	ng/ml	74
49) Acenaphthylene	9.456	152	1925694	2186.20	ng/ml	99
50) 3-Nitroaniline	9.552	138	315519	2025.21	ng/ml	92
51) Acenaphthene	9.633	153	1292033	2107.80	ng/ml	98
52) 2,4-Dinitrophenol	9.659	184	114534	2156.44	ng/ml	94
53) 4-Nitrophenol	9.729	139	211014	1971.20	ng/ml	96
54) 2,4-Dinitrotoluene	9.788	165	384725	2102.14	ng/ml	82
55) Dibenzofuran	9.809	168	1650897	2073.24	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	9.895	232	242365	2094.34	ng/ml	97
57) 2,3,4,6-Tetrachlorophenol	9.937	232	249893	1984.59	ng/ml	97
58) Diethyl phthalate	10.028	149	1303754	2190.37	ng/ml	100
59) 2,3,5-Trimethylnaphtha...	10.018	170	1071965	2129.48	ng/ml	96
60) Fluorene	10.157	166	1362643	2159.89	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.151	204	592818	2039.93	ng/ml	95
62) 4-Nitroaniline	10.178	138	311522	1926.58	ng/ml	93
63) 4,6-Dinitro-2-methylph...	10.210	198	195313	2250.90	ng/ml	97
65) N-Nitrosodiphenylamine	10.269	169	1083512	2258.89	ng/ml	99
66) Azobenzene (1,2-DPH)	10.312	77	1425585	2370.21	ng/ml	91
68) 4-Bromophenyl phenyl e...	10.649	248	319113	2171.16	ng/ml	97
69) Hexachlorobenzene	10.729	284	348501	2168.52	ng/ml	97
70) Pentachlorophenol (PCP)	10.927	266	141443	2188.80	ng/ml	99
71) Phenanthrene	11.135	178	1819065	2120.77	ng/ml	99
72) Anthracene	11.189	178	1810746	2210.94	ng/ml	99
73) Carbazole	11.349	167	1608305	2239.13	ng/ml	99
74) Di-n-butyl phthalate	11.692	149	2006997	2292.45	ng/ml	99
75) Fluoranthene	12.398	202	1794848	2194.91	ng/ml	95
76) Benzidine	12.553	184	1656656	3996.67	ng/ml	97
77) Pyrene	12.687	202	1853424	2178.37	ng/ml	99
80) Butyl benzyl phthalate	13.681	149	800859	2128.01	ng/ml	91
81) Bis(2-ethylhexyl) adipate	13.847	129	768338	2045.03	ng/ml	100
82) 3,3-Dichlorobenzidine	14.810	252	498566	4188.29	ng/ml	99
83) Benz(a)anthracene	14.837	228	1596039	2185.83	ng/ml	99
84) Chrysene	14.922	228	1534329	2106.49	ng/ml	99
85) Bis(2-ethylhexyl) phth...	14.997	149	1185144	2296.15	ng/ml	98
87) Di-n-octyl phthalate	16.655	149	1744039	2201.36	ng/ml	97
88) Benzo(b)fluoranthene	17.425	252	1457956	2147.52	ng/ml	97
89) Benzo(k)fluoranthene	17.490	252	1499268	2209.71	ng/ml	96
90) Benzo(b+k)fluoranthene	17.490	252	3029656	4319.90	ng/ml	96
91) Benzo(e)pyrene	18.078	252	1399026	2076.47	ng/ml	99
92) Benzo(a)pyrene	18.196	252	1266093	2074.11	ng/ml	98
93) Perylene	18.399	252	1219495	2038.32	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.736	276	1189340	2093.64	ng/ml	94
96) Dibenz(a,h)anthracene	20.795	278	1194343	2229.45	ng/ml	95
97) Benzo(g,h,i)perylene	21.266	276	1231176	2315.92	ng/ml	88

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

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032023.D
Acq On : 3 Jan 2020 22:13
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL7
Misc : 1x, A20A028@2000
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:43:54 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032024.D
Acq On : 3 Jan 2020 22:50
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL8
Misc : 1x, A20A029@4000
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:00 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JJ 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.578	152	500043	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.825	136	1917518	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.600	162	893655	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.114	188	1473165	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.869	240	1255723	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.335	264	1085138	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.736	292	874407	2000.00	ng/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.370	112	1428831	4483.57	ng/ml	0.00
5) Phenol-d6(Surr)	6.236	99	1758815	4279.33	ng/ml	0.01
19) Nitrobenzene-d5 (Surr)	7.119	82	1486226	4219.69	ng/ml	0.01
40) 2-Fluorobiphenyl (Surr)	8.910	172	2633602	3996.92	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.408	330	277672	4040.24	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.890	244	2444183	4327.06	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.107	74	1030000	4358.70	ng/ml	99
3) Pyridine	4.129	79	1613979	4480.08	ng/ml	96
6) Phenol	6.252	94	1993033	4280.55	ng/ml	95
7) Aniline	6.273	93	2338985	4447.80	ng/ml	97
8) Bis(2-chloroethyl) ether	6.327	93	1526128	3960.09	ng/ml	96
9) 2-Chlorophenol	6.386	128	1480190	4267.01	ng/ml	95
10) 1,3-Dichlorobenzene	6.525	146	1611821	4138.82	ng/ml	97
11) 1,4-Dichlorobenzene	6.594	146	1621535	4080.35	ng/ml	99
12) Benzyl alcohol	6.712	108	884831	4136.18	ng/ml	94
13) 1,2-Dichlorobenzene	6.744	146	1540746	4099.38	ng/ml	98
14) 2-Methylphenol	6.819	107	1154342	4251.82	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	6.835	45	1936315	3802.38	ng/ml	91
16) N-Nitrosodi-n-propylamine	6.969	70	1050413	4273.88	ng/ml	99
17) 3+4-Methylphenol	6.969	107	1450098	4334.78	ng/ml	97
18) Hexachloroethane	7.070	117	617724	4319.02	ng/ml	90
20) Nitrobenzene	7.135	77	1503185	4197.56	ng/ml	93
22) Isophorone	7.370	82	2775012	4543.98	ng/ml	95
23) 2-Nitrophenol	7.445	139	745468	4184.49	ng/ml	89
24) 2,4-Dimethylphenol	7.488	122	1088716	4311.05	ng/ml	98
25) Bis(2-chloroethoxy) me...	7.573	93	1750929	4148.43	ng/ml	99
26) Benzoic acid	7.488	105	36964	1334.13	ng/ml#	1
27) 2,4-Dichlorophenol	7.691	162	1029490	4227.21	ng/ml	96
28) 1,2,4-Trichlorobenzene	7.771	180	1162895	4071.35	ng/ml	98
29) Naphthalene	7.851	128	4129022	4060.65	ng/ml	98
30) 4-Chloroaniline	7.899	127	1581022	4505.77	ng/ml	97
31) Hexachlorobutadiene	7.974	225	586720	4148.40	ng/ml	99
32) 4-Chloro-3-methylphenol	8.386	107	1022846	4144.14	ng/ml	97
33) 2-Methylnaphthalene	8.541	142	2673098	4097.37	ng/ml	98
34) 1-Methylnaphthalene	8.643	142	2513613	4037.76	ng/ml	98
36) Hexachlorocyclopentadiene	8.707	237	511569	4217.39	ng/ml	99
37) 2,4,6-Trichlorophenol	8.830	196	649969	4184.40	ng/ml	99
38) 2,4,5-Trichlorophenol	8.868	196	632824	4083.17	ng/ml	100
39) 1,1'-Biphenyl	9.012	154	3005594	3953.19	ng/ml	98
41) 2-Chloronaphthalene	9.039	162	2292714	4059.56	ng/ml	98
42) 2-Nitroaniline	9.140	138	773442	4034.59	ng/ml	89
43) 2,6-Dimethylnaphthalene	9.172	156	2235536	4061.59	ng/ml	97

See NI

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032024.D
Acq On : 3 Jan 2020 22:50
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL8
Misc : 1x, A20A029@4000
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:00 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	1,4-Dinitrobenzene	9.269	168	367510	4096.24	ng/ml	76
45)	Dimethyl phthalate	9.328	163	2445753	4232.06	ng/ml	99
46)	1,3-Dinitrobenzene	9.354	168	409603	4211.59	ng/ml	90
47)	2,6-Dinitrotoluene	9.381	165	598606	4361.23	ng/ml	85
48)	1,2-Dinitrobenzene	9.445	168	276422	4387.14	ng/ml	80
49)	Acenaphthylene	9.461	152	3589358	4217.25	ng/ml	99
50)	3-Nitroaniline	9.557	138	621137	4126.13	ng/ml	89
51)	Acenaphthene	9.638	153	2408743	4066.83	ng/ml	99
52)	2,4-Dinitrophenol	9.664	184	274354	4015.19	ng/ml	94
53)	4-Nitrophenol	9.734	139	436738	3764.87	ng/ml	98
54)	2,4-Dinitrotoluene	9.798	165	746905	4136.86	ng/ml	88
55)	Dibenzofuran	9.809	168	3099739	4028.70	ng/ml	95
56)	2,3,5,6-Tetrachlorophenol	9.894	232	488523	3966.51	ng/ml	96
57)	2,3,4,6-Tetrachlorophenol	9.937	232	495426	3820.57	ng/ml	94
58)	Diethyl phthalate	10.034	149	2419570	4206.98	ng/ml	100
59)	2,3,5-Trimethylnaphtha...	10.023	170	1981755	4074.29	ng/ml	97
60)	Fluorene	10.162	166	2529523	4149.52	ng/ml	99
61)	4-Chlorophenyl phenyl ...	10.151	204	1114273	3968.22	ng/ml	94
62)	4-Nitroaniline	10.189	138	623547	3754.48	ng/ml	95
63)	4,6-Dinitro-2-methylph...	10.215	198	406543	4252.54	ng/ml	93
65)	N-Nitrosodiphenylamine	10.274	169	2056027	4424.90	ng/ml	99
66)	Azobenzene (1,2-DPH)	10.317	77	2640763	4532.49	ng/ml	94
68)	4-Bromophenyl phenyl e...	10.649	248	628737	4416.01	ng/ml	94
69)	Hexachlorobenzene	10.734	284	680811	4373.21	ng/ml	99
70)	Pentachlorophenol (PCP)	10.927	266	306759	4154.46	ng/ml	99
71)	Phenanthrene	11.141	178	3383745	4072.47	ng/ml	98
72)	Anthracene	11.189	178	3388827	4271.52	ng/ml	99
73)	Carbazole	11.355	167	3057969	4394.98	ng/ml	99
74)	Di-n-butyl phthalate	11.692	149	3787415	4465.92	ng/ml	99
75)	Fluoranthene	12.403	202	3394442	4285.19	ng/ml	95
76)	Benzidine	12.558	184	3514163	8064.48	ng/ml	96
77)	Pyrene	12.692	202	3477762	4219.60	ng/ml	98
80)	Butyl benzyl phthalate	13.687	149	1579778	4265.79	ng/ml	91
81)	Bis(2-ethylhexyl) adipate	13.852	129	1513192	4263.13	ng/ml	99
82)	3,3-Dichlorobenzidine	14.815	252	1259671	8474.71	ng/ml	99
83)	Benz(a)anthracene	14.847	228	2962043	4389.77	ng/ml	99
84)	Chrysene	14.933	228	2828536	4202.23	ng/ml	99
85)	Bis(2-ethylhexyl) phth...	14.997	149	2246628	4410.42	ng/ml	99
87)	Di-n-octyl phthalate	16.660	149	3512667	4396.37	ng/ml	97
88)	Benzo(b)fluoranthene	17.436	252	2721434	4278.97	ng/ml	97
89)	Benzo(k)fluoranthene	17.500	252	2680286	4459.48	ng/ml	95
90)	Benzo(b+k)fluoranthene	17.500	252	5519883	8641.99	ng/ml	95
91)	Benzo(e)pyrene	18.089	252	2531424	4158.99	ng/ml	98
92)	Benzo(a)pyrene	18.206	252	2321546	4055.62	ng/ml	98
93)	Perylene	18.410	252	2184466	4153.19	ng/ml	98
95)	Indeno(1,2,3-cd)pyrene	20.747	276	2180841	4251.77	ng/ml	92
96)	Dibenz(a,h)anthracene	20.806	278	2121000	4384.89	ng/ml	93
97)	Benzo(g,h,i)perylene	21.282	276	2215679	4615.93	ng/ml	88

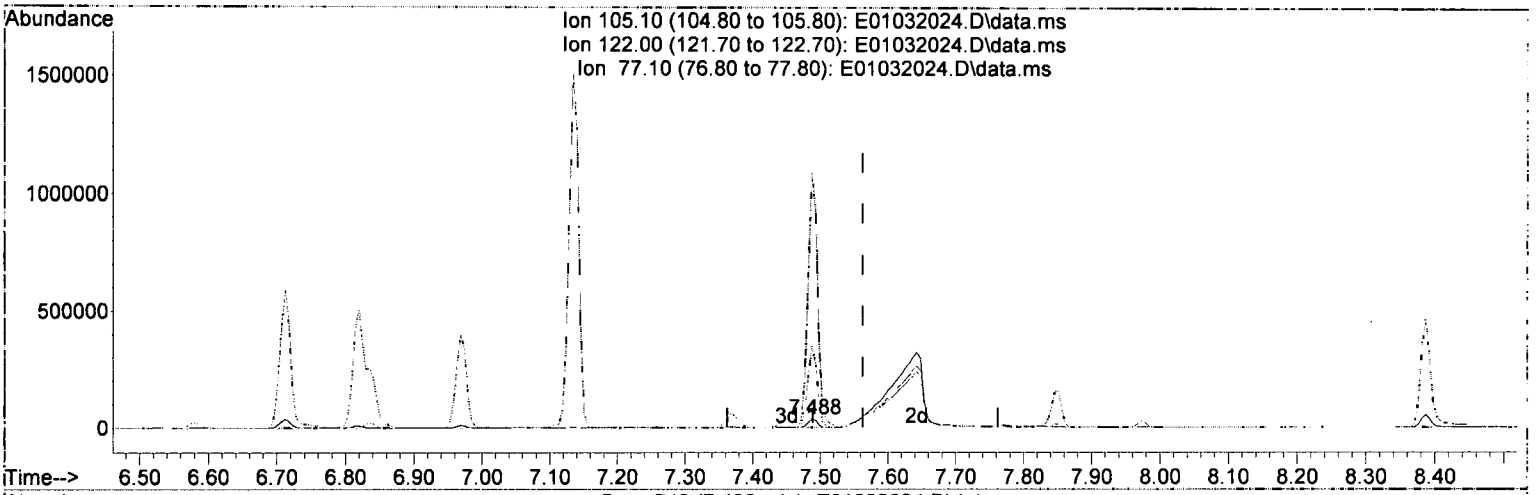
(#) = qualifier out of range (m) = manual integration (+) = signals summed

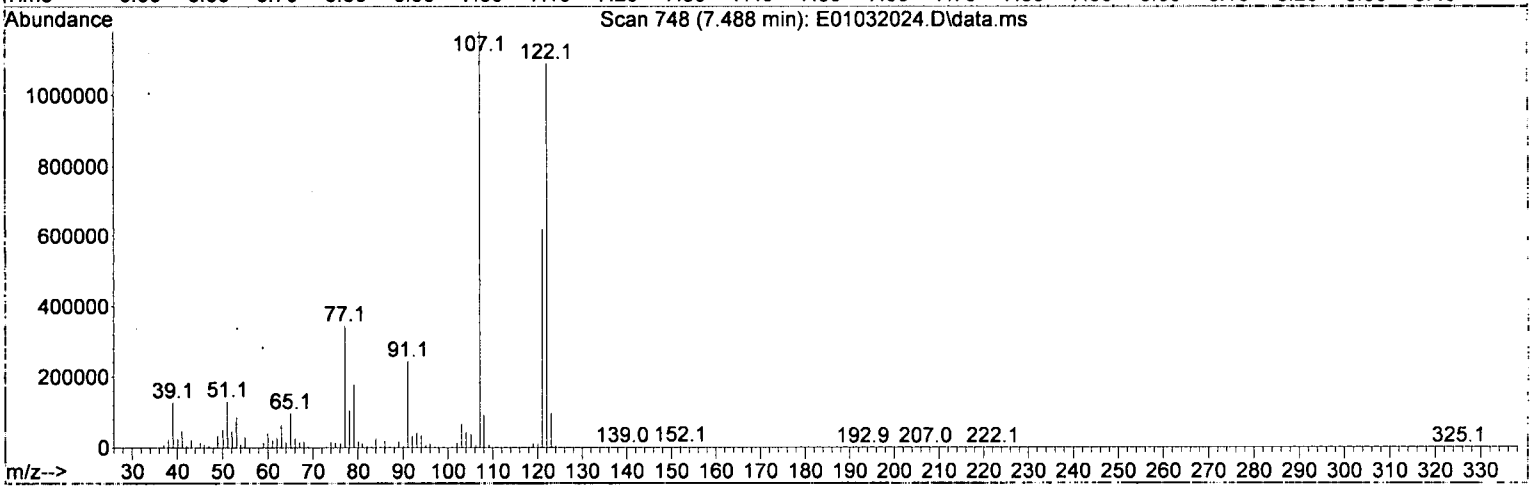
07/16/2020 Archive, 2020 Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1158 of 1443

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032024.D
Acq On : 3 Jan 2020 22:50
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL8
Misc : 1x, A20A029@4000
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:00 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032024.D\data.ms

(26) Benzoic acid (T)

7.488min (-0.075) 1334.13 ng/ml

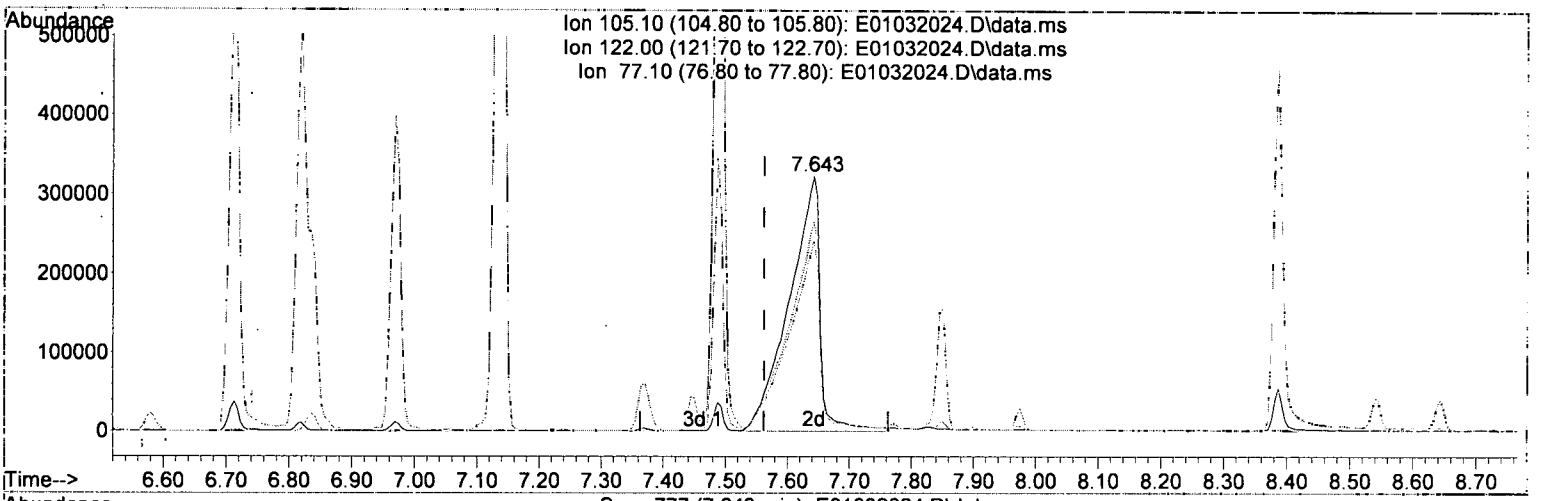
response 36964

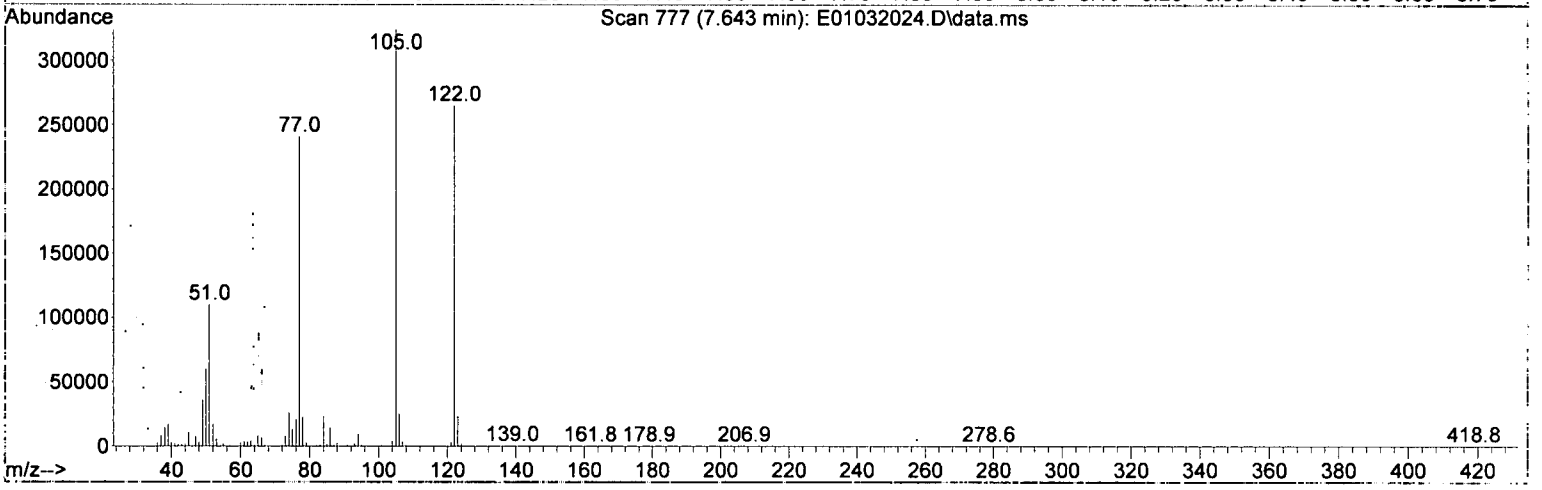
Ion	Exp%	Act%
105.10	100.00	100.00
122.00	87.10	2923.83#
77.10	69.80	926.23#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032024.D
Acq On : 3 Jan 2020 22:50
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL8
Misc : 1x, A20A029@4000
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:00 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032024.D\data.ms

(26) Benzoic acid (T)

7.643min (+ 0.080) 7962.74 ng/ml (m)

response 1129063

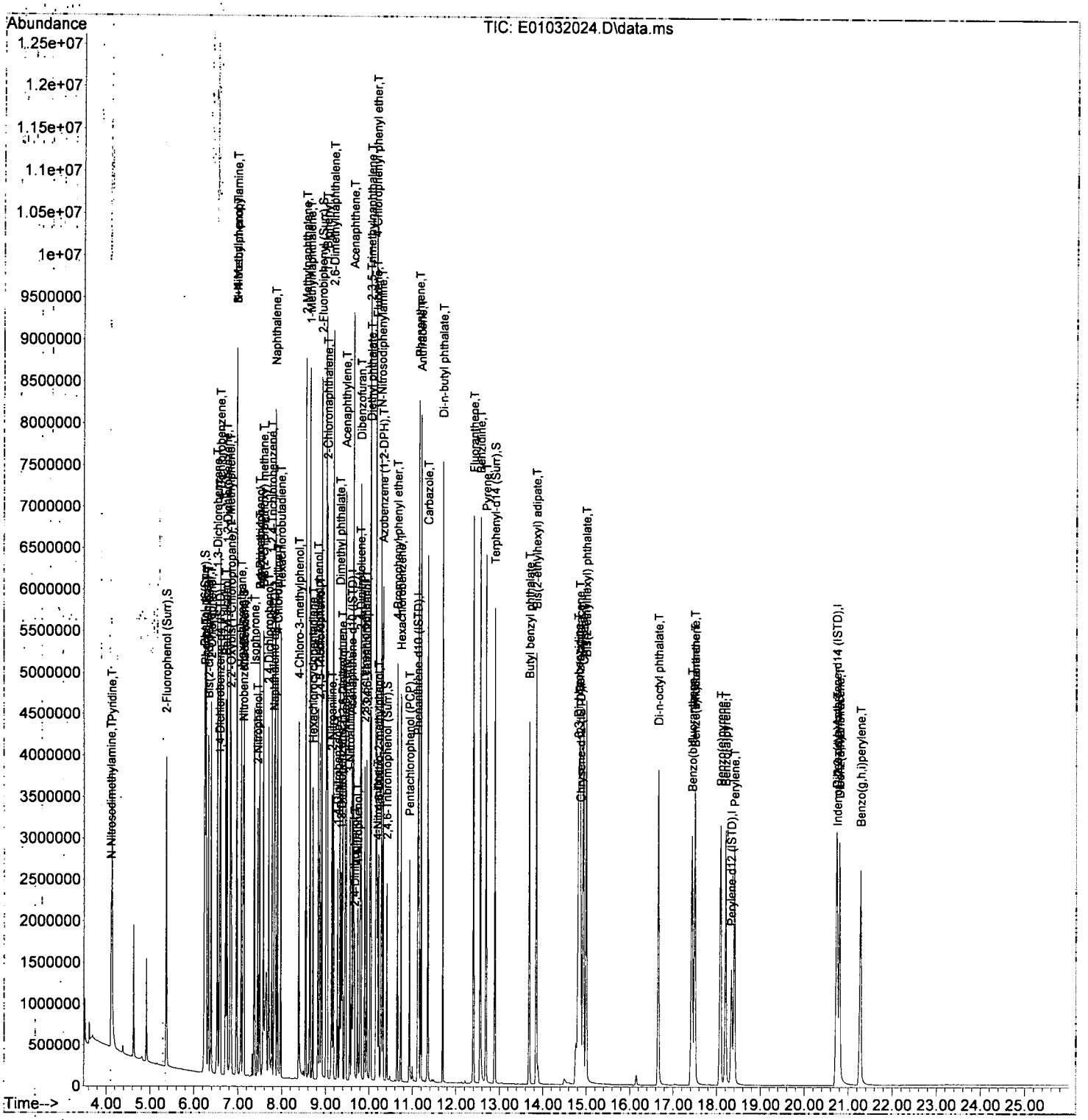
Ion	Exp%	Act%
105.10	100.00	100.00
122.00	87.10	81.83
77.10	69.80	74.42
0.00	0.00	0.00

1/6/20

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032024.D
Acq On : 3 Jan 2020 22:50
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL8
Misc : 1x, A20A029@4000
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:00 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032025.D
Acq On : 3 Jan 2020 23:27
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL9
Misc : 1x, A20A030@6000
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JK 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.578	152	499484	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.830	136	1884040	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.606	162	876237	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.114	188	1449708	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.874	240	1191264	2000.00	ng/ml	0.01
86) Perylene-d12 (ISTD)	18.340	264	1018252	2000.00	ng/ml	0.01
94) Dibenz(a,h)Anthrcene-d...	20.742	292	819963	2000.00	ng/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.370	112	2144132	6735.66	ng/ml	0.00
5) Phenol-d6(Surr)	6.241	99	2586123	6299.28	ng/ml	0.02
19) Nitrobenzene-d5 (Surr)	7.119	82	2160710	6141.55	ng/ml	0.01
40) 2-Fluorobiphenyl (Surr)	8.910	172	3753013	5809.03	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.408	330	421341	5892.26	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.895	244	3530183	6587.82	ng/ml	0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.118	74	1536246	6508.29	ng/ml	100
3) Pyridine	4.139	79	2451657	6812.92	ng/ml	96
6) Phenol	6.257	94	2943582	6329.18	ng/ml	91
7) Aniline	6.279	93	3506310	6674.29	ng/ml	97
8) Bis(2-chloroethyl) ether	6.327	93	2189516	5687.85	ng/ml	94
9) 2-Chlorophenol	6.386	128	2217353	6399.21	ng/ml	94
10) 1,3-Dichlorobenzene	6.530	146	2386672	6135.33	ng/ml	97
11) 1,4-Dichlorobenzene	6.594	146	2398439	6042.07	ng/ml	98
12) Benzyl alcohol	6.717	108	1310681	5730.27	ng/ml	94
13) 1,2-Dichlorobenzene	6.744	146	2272810	6053.90	ng/ml	97
14) 2-Methylphenol	6.824	107	1672615	6167.68	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	6.840	45	2711936	5331.44	ng/ml	93
16) N-Nitrosodi-n-propylamine	6.974	70	1467043	5975.72	ng/ml	100
17) 3+4-Methylphenol	6.974	107	2041349	6109.04	ng/ml	98
18) Hexachloroethane	7.070	117	913964	6397.43	ng/ml	89
20) Nitrobenzene	7.140	77	2166533	6056.69	ng/ml	96
22) Isophorone	7.375	82	4079436	6798.63	ng/ml	95
23) 2-Nitrophenol	7.450	139	1120921	6117.39	ng/ml	92
24) 2,4-Dimethylphenol	7.493	122	1616890	6516.26	ng/ml	98
25) Bis(2-chloroethoxy) me...	7.579	93	2481600	5984.06	ng/ml	99
26) Benzoic acid	7.493	105	57111	1537.20	ng/ml#	1
27) 2,4-Dichlorophenol	7.696	162	1548848	6120.92	ng/ml	96
28) 1,2,4-Trichlorobenzene	7.771	180	1697108	6047.23	ng/ml	97
29) Naphthalene	7.851	128	5742192	5747.46	ng/ml	97
30) 4-Chloroaniline	7.905	127	2332698	6766.11	ng/ml	98
31) Hexachlorobutadiene	7.974	225	860562	6192.72	ng/ml	99
32) 4-Chloro-3-methylphenol	8.386	107	1532205	5942.62	ng/ml	96
33) 2-Methylnaphthalene	8.547	142	3784022	5903.28	ng/ml	98
34) 1-Methylnaphthalene	8.648	142	3546386	5797.99	ng/ml	98
36) Hexachlorocyclopentadiene	8.707	237	725959	5834.44	ng/ml	100
37) 2,4,6-Trichlorophenol	8.830	196	953608	6009.00	ng/ml	98
38) 2,4,5-Trichlorophenol	8.873	196	958888	5924.80	ng/ml	99
39) 1,1'-Biphenyl	9.017	154	4205149	5640.88	ng/ml	97
41) 2-Chloronaphthalene	9.039	162	3294607	5949.51	ng/ml	97
42) 2-Nitroaniline	9.146	138	1172303	5879.13	ng/ml	92
43) 2,6-Dimethylnaphthalene	9.178	156	3134415	5807.91	ng/ml	96

See MJ

07/15/20 Agenda QEA LLC Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1162 of 1443

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032025.D
Acq On : 3 Jan 2020 23:27
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL9
Misc : 1x; A20A030@6000
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth: SV5_AQUISITION.M

Quant Time: Jan 06 09:44:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

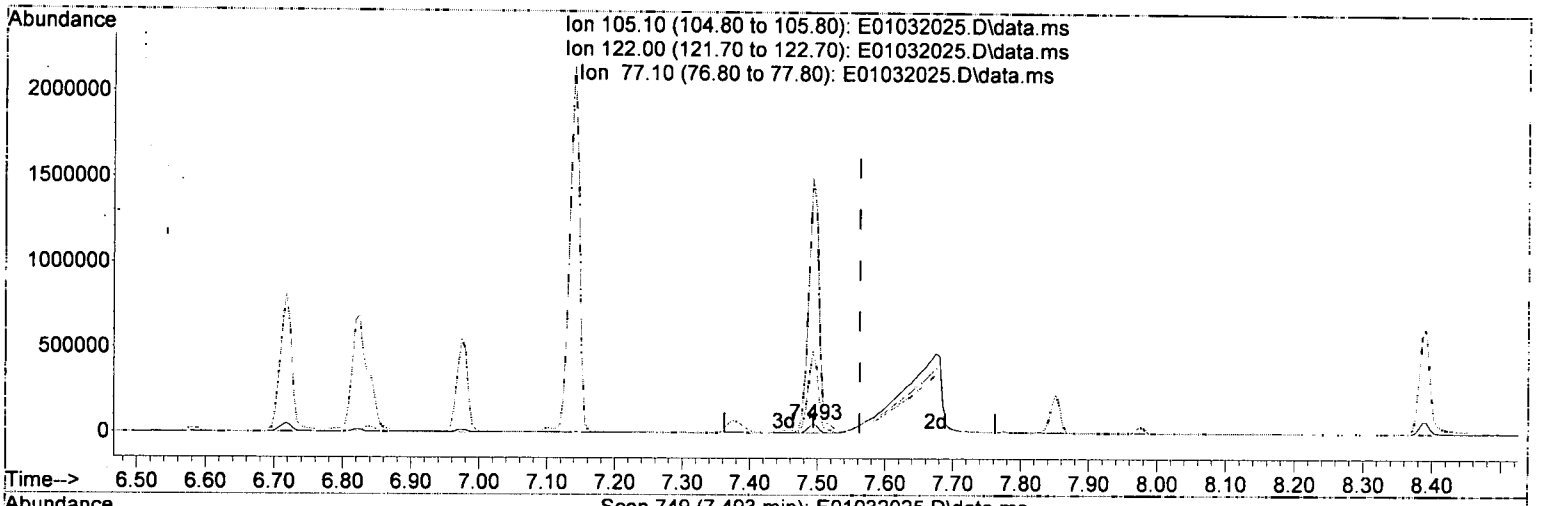
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	1,4-Dinitrobenzene	9.274	168	554224	5831.24	ng/ml	82
45)	Dimethyl phthalate	9.333	163	3557937	6278.93	ng/ml	98
46)	1,3-Dinitrobenzene	9.360	168	616328	6463.13	ng/ml	91
47)	2,6-Dinitrotoluene	9.386	165	885418	6579.07	ng/ml	87
48)	1,2-Dinitrobenzene	9.451	168	408936	6619.31	ng/ml	80
49)	Acenaphthylene	9.461	152	5105139	6117.42	ng/ml	98
50)	3-Nitroaniline	9.563	138	921685	6244.34	ng/ml	89
51)	Acenaphthene	9.643	153	3396356	5848.27	ng/ml	99
52)	2,4-Dinitrophenol	9.670	184	450010	5598.59	ng/ml	95
53)	4-Nitrophenol	9.739	139	662579	5360.40	ng/ml	98
54)	2,4-Dinitrotoluene	9.804	165	1092849	6080.57	ng/ml	85
55)	Dibenzofuran	9.814	168	4430577	5872.84	ng/ml	96
56)	2,3,5,6-Tetrachlorophenol	9.895	232	740212	5677.40	ng/ml	94
57)	2,3,4,6-Tetrachlorophenol	9.943	232	740968	5531.51	ng/ml	96
58)	Diethyl phthalate	10.039	149	3420830	6066.14	ng/ml	98
59)	2,3,5-Trimethylnaphtha...	10.028	170	2767525	5802.86	ng/ml	98
60)	Fluorene	10.162	166	3561442	5958.45	ng/ml	99
61)	4-Chlorophenyl phenyl ...	10.151	204	1611519	5853.12	ng/ml	92
62)	4-Nitroaniline	10.194	138	921855	5385.79	ng/ml	94
63)	4,6-Dinitro-2-methylph...	10.221	198	623395	6061.92	ng/ml	94
65)	N-Nitrosodiphenylamine	10.280	169	2978918	6514.84	ng/ml	99
66)	Azobenzene (1,2-DPH)	10.317	77	3792849	6615.21	ng/ml	94
68)	4-Bromophenyl phenyl e...	10.654	248	928304	6625.56	ng/ml	100
69)	Hexachlorobenzene	10.734	284	992767	6480.26	ng/ml	98
70)	Pentachlorophenol (PCP)	10.927	266	482690	5891.80	ng/ml	98
71)	Phenanthrene	11.141	178	4851636	5933.61	ng/ml	97
72)	Anthracene	11.194	178	4864363	6230.60	ng/ml	98
73)	Carbazole	11.355	167	4402648	6429.97	ng/ml	97
74)	Di-n-butyl phthalate	11.692	149	5312790	6365.92	ng/ml	99
75)	Fluoranthene	12.403	202	4854188	6227.15	ng/ml	94
76)	Benzidine	12.564	184	5278133	11642.31	ng/ml	97
77)	Pyrene	12.697	202	4977306	6136.72	ng/ml	97
80)	Butyl benzyl phthalate	13.687	149	2289212	6218.58	ng/ml	90
81)	Bis(2-ethylhexyl) adipate	13.853	129	2198969	6475.49	ng/ml	99
82)	3,3-Dichlorobenzidine	14.831	252	2366422	12458.11	ng/ml	99
83)	Benz(a)anthracene	14.853	228	4273153	6675.51	ng/ml	98
84)	Chrysene	14.944	228	3995368	6256.92	ng/ml	99
85)	Bis(2-ethylhexyl) phth...	15.003	149	3237898	6369.74	ng/ml	100
87)	Di-n-octyl phthalate	16.666	149	5128757	6216.24	ng/ml	98
88)	Benzo(b)fluoranthene	17.441	252	3786657	6042.97	ng/ml	96
89)	Benzo(k)fluoranthene	17.511	252	3676198	6483.06	ng/ml	96
90)	Benzo(b+k)fluoranthene	17.511	252	7733545	12526.11	ng/ml	96
91)	Benzo(e)pyrene	18.094	252	3555006	6080.43	ng/ml	97
92)	Benzo(a)pyrene	18.217	252	3303134	5831.59	ng/ml	97
93)	Perylene	18.415	252	3043884	6167.29	ng/ml	98
95)	Indeno(1,2,3-cd)pyrene	20.752	276	3116709	6479.80	ng/ml	91
96)	Dibenz(a,h)anthracene	20.811	278	3025434	6669.99	ng/ml	93
97)	Benzo(g,h,i)perylene	21.293	276	3084427	6852.46	ng/ml	87

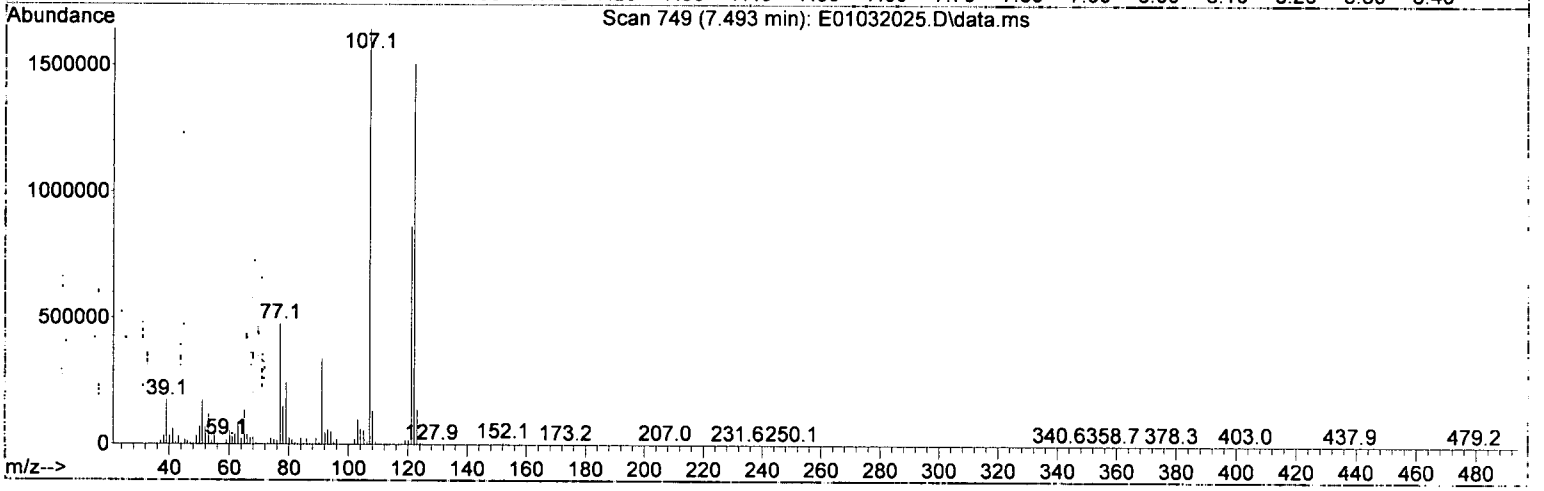
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032025.D
Acq On : 3 Jan 2020 23:27
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL9
Misc : 1x, A20A030@6000
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032025.D\data.ms

(26) Benzoic acid (T)

7.493min (-0.069) 1537.20 ng/ml

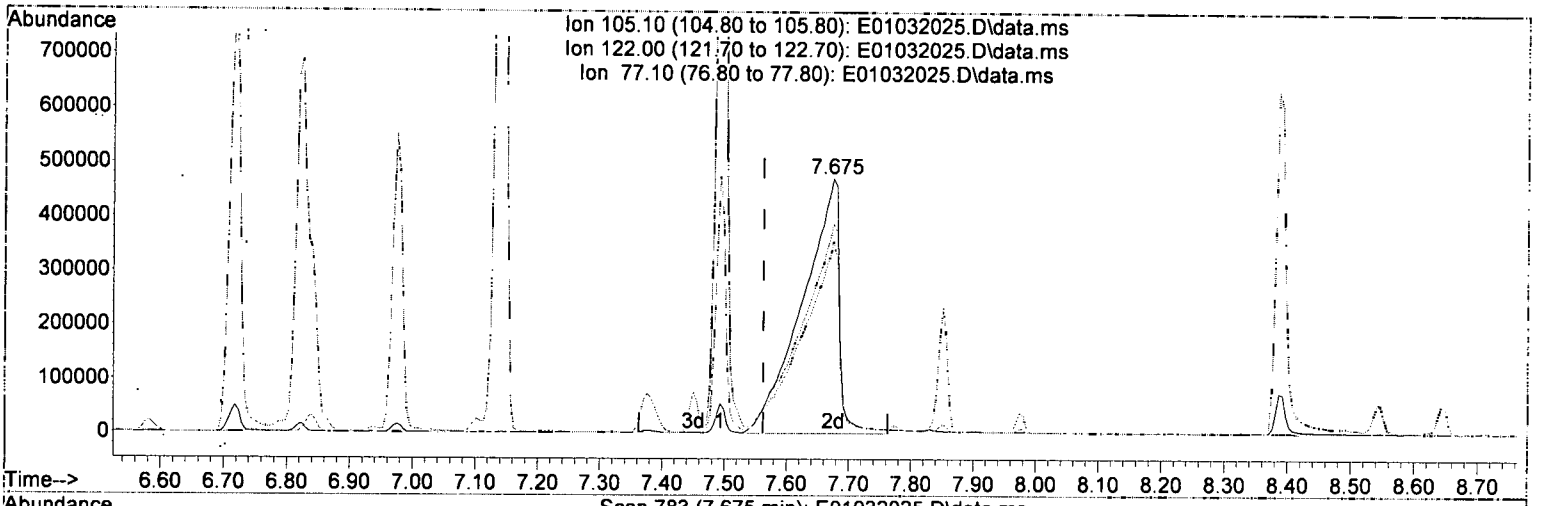
response 57111

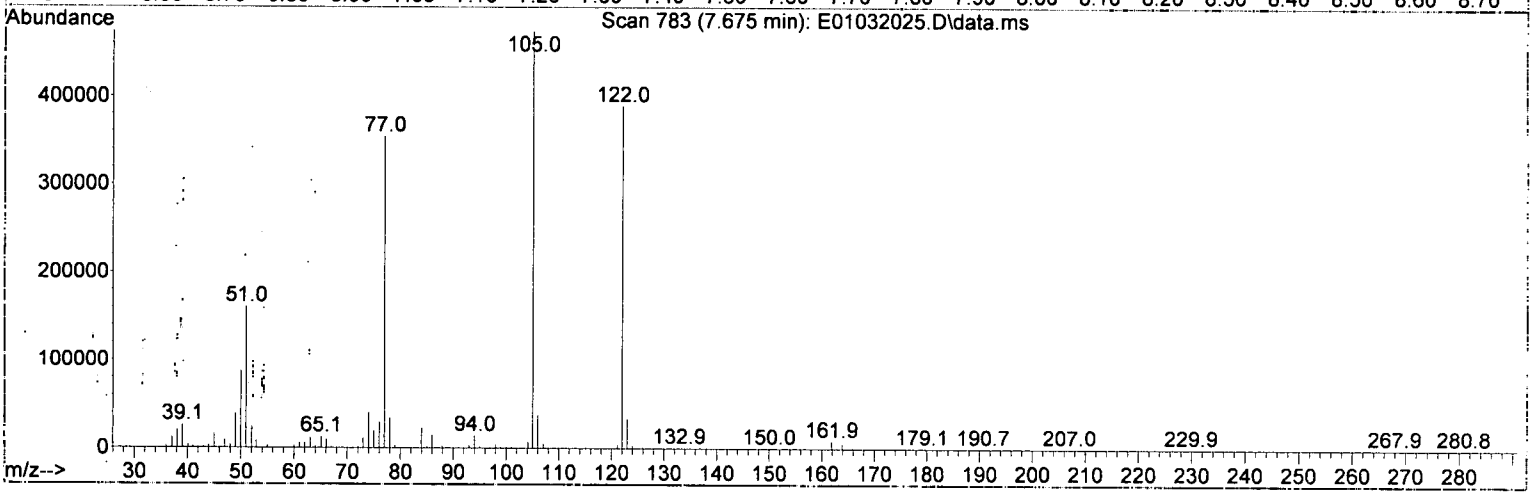
Ion	Exp%	Act%
105.10	100.00	100.00
122.00	87.10	2736.08#
77.10	69.80	867.24#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032025.D
Acq On : 3 Jan 2020 23:27
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL9
Misc : 1x, A20A030@6000
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032025.D\data.ms

(26) Benzoic acid (T)

7.675min (+ 0.112) 11312.18 ng/ml m

response 1960977

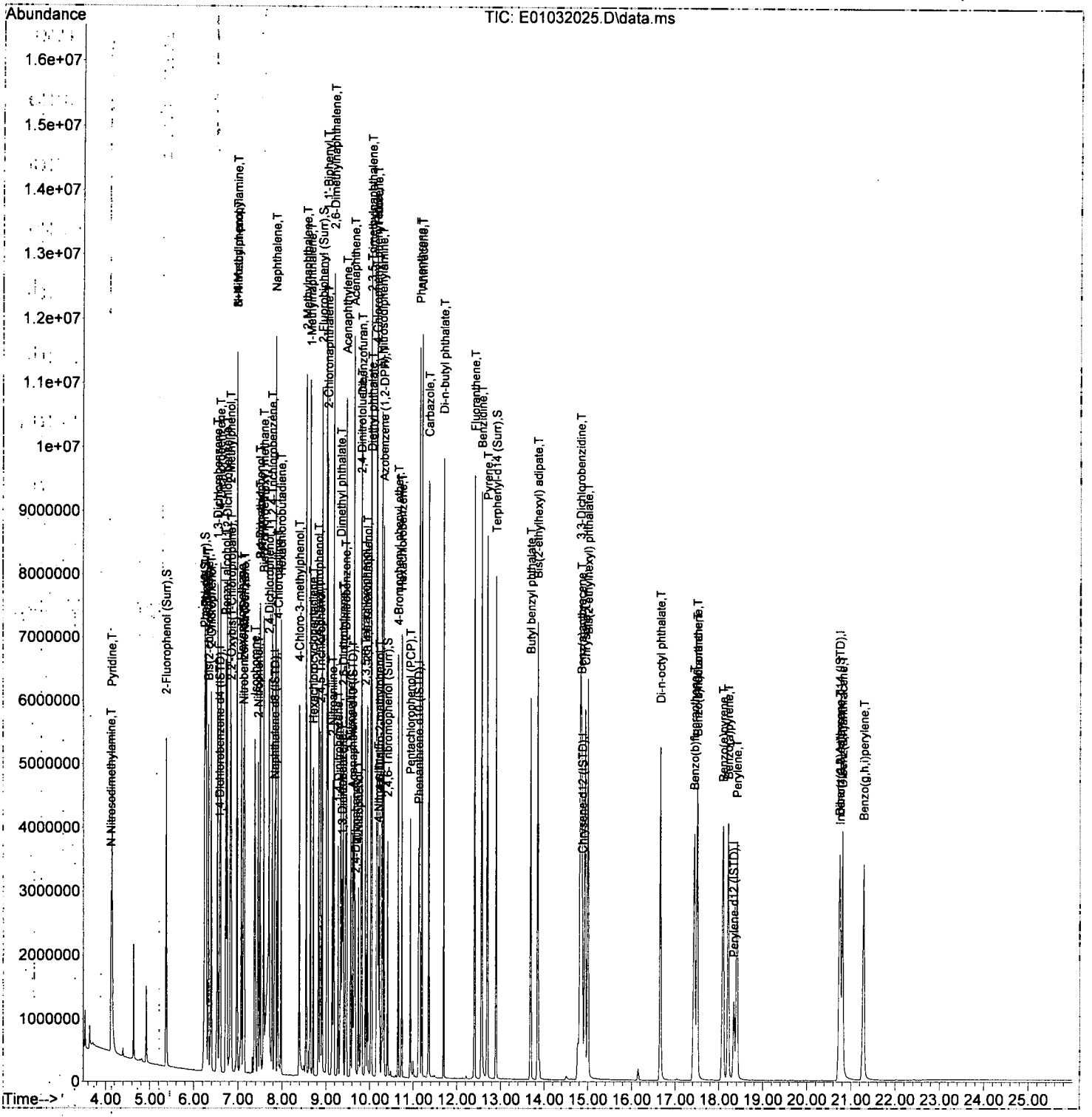
Ion	Exp%	Act%
105.10	100.00	100.00
122.00	87.10	82.22
77.10	69.80	74.91
0.00	0.00	0.00

GJL 1/6/20

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032025.D
Acq On : 3 Jan 2020 23:27
Operator : JK/ AMS /DTH
Sample : 0A03043-CAL9
Misc : 1x, A20A030@6000
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:07 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032026.D
Acq On : 4 Jan 2020 00:04
Operator : JK/ AMS /DTH
Sample : 0A03043-CALA
Misc : 1x, A20A031@8000
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:13 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

JK 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.584	152	493615	2000.00	ng/ml	0.01
21) Naphthalene-d8 (ISTD)	7.830	136	1900603	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.606	162	883828	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.114	188	1500835	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.880	240	1267468	2000.00	ng/ml	0.02
86) Perylene-d12 (ISTD)	18.345	264	1093654	2000.00	ng/ml	0.02
94) Dibenz(a,h)Anthrcene-d...	20.752	292	890974	2000.00	ng/ml	0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.375	112	2779096	8834.17	ng/ml	0.00
5) Phenol-d6(Surr)	6.247	99	3363468	8290.15	ng/ml	0.02
19) Nitrobenzene-d5 (Surr)	7.124	82	2863282	8235.29	ng/ml	0.02
40) 2-Fluorobiphenyl (Surr)	8.916	172	4835855	7420.80	ng/ml	0.01
67) 2,4,6-Tribromophenol (...	10.413	330	592927	7628.47	ng/ml	0.01
79) Terphenyl-d14 (Surr)	12.895	244	4867943	8538.10	ng/ml	0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.118	74	1986289	8514.94	ng/ml	98
3) Pyridine	4.129	79	3242206	9116.91	ng/ml	97
6) Phenol	6.263	94	3741893	8141.34	ng/ml	82
7) Aniline	6.279	93	4462822	8596.02	ng/ml	96
8) Bis(2-chloroethyl) ether	6.332	93	2889611	7595.78	ng/ml	96
9) 2-Chlorophenol	6.391	128	2873566	8391.63	ng/ml	96
10) 1,3-Dichlorobenzene	6.530	146	3053807	7943.65	ng/ml	97
11) 1,4-Dichlorobenzene	6.600	146	3046073	7764.80	ng/ml	99
12) Benzyl alcohol	6.723	108	1754360	7295.20	ng/ml	96
13) 1,2-Dichlorobenzene	6.750	146	2908040	7838.01	ng/ml	99
14) 2-Methylphenol	6.824	107	2144839	8003.02	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	6.841	45	3325555	6615.50	ng/ml	95
16) N-Nitrosodi-n-propylamine	6.985	70	1848808	7620.31	ng/ml	98
17) 3+4-Methylphenol	6.980	107	2596442	7862.62	ng/ml	98
18) Hexachloroethane	7.071	117	1156381	8190.51	ng/ml	92
20) Nitrobenzene	7.145	77	2818609	7973.29	ng/ml	98
22) Isophorone	7.386	82	5435748	8980.06	ng/ml	95
23) 2-Nitrophenol	7.456	139	1503234	7827.14	ng/ml	96
24) 2,4-Dimethylphenol	7.498	122	2161489	8635.15	ng/ml	98
25) Bis(2-chloroethoxy) me...	7.579	93	3234367	7731.30	ng/ml	99
26) Benzoic acid	7.498	105	74021	1691.09	ng/ml#	1
27) 2,4-Dichlorophenol	7.702	162	2058663	7713.47	ng/ml	98
28) 1,2,4-Trichlorobenzene	7.777	180	2214487	7822.02	ng/ml	98
29) Naphthalene	7.857	128	7367424	7309.92	ng/ml	97
30) 4-Chloroaniline	7.905	127	3124262	8983.11	ng/ml	97
31) Hexachlorobutadiene	7.980	225	1131591	8072.12	ng/ml	99
32) 4-Chloro-3-methylphenol	8.392	107	2057267	7523.04	ng/ml	96
33) 2-Methylnaphthalene	8.547	142	4862630	7519.85	ng/ml	97
34) 1-Methylnaphthalene	8.648	142	4518196	7322.44	ng/ml	97
36) Hexachlorocyclopentadiene	8.707	237	969144	7406.12	ng/ml	100
37) 2,4,6-Trichlorophenol	8.836	196	1286536	7745.49	ng/ml	99
38) 2,4,5-Trichlorophenol	8.873	196	1316182	7635.26	ng/ml	99
39) 1,1'-Biphenyl	9.017	154	5320273	7075.44	ng/ml	96
41) 2-Chloronaphthalene	9.044	162	4279693	7662.04	ng/ml	96
42) 2-Nitroaniline	9.151	138	1623006	7653.34	ng/ml	95
43) 2,6-Dimethylnaphthalene	9.178	156	4041095	7423.63	ng/ml	95

See ML

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032026.D
Acq On : 4 Jan 2020 00:04
Operator : JK/ AMS /DTH
Sample : 0A03043-CALA
Misc : 1x, A20A031@8000
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:13 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

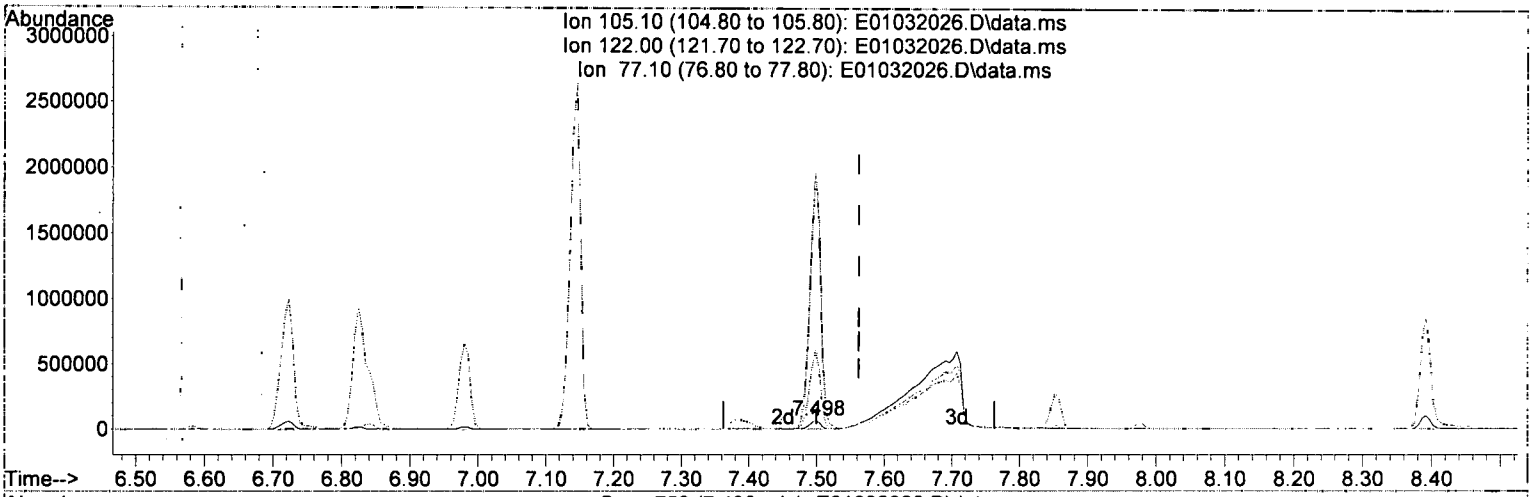
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	1,4-Dinitrobenzene	9.280	168	776905	7552.07	ng/ml	86
45)	Dimethyl phthalate	9.338	163	4758932	8326.27	ng/ml	98
46)	1,3-Dinitrobenzene	9.370	168	859472	8935.46	ng/ml	90
47)	2,6-Dinitrotoluene	9.392	165	1201916	8854.09	ng/ml	90
48)	1,2-Dinitrobenzene	9.456	168	539197	8652.84	ng/ml	80
49)	Acenaphthylene	9.467	152	6556077	7788.58	ng/ml	98
50)	3-Nitroaniline	9.574	138	1294091	8692.06	ng/ml	95
51)	Acenaphthene	9.643	153	4391282	7496.51	ng/ml	98
52)	2,4-Dinitrophenol	9.675	184	680486	7200.84	ng/ml	94
53)	4-Nitrophenol	9.745	139	944555	7013.50	ng/ml	97
54)	2,4-Dinitrotoluene	9.809	165	1431584	7800.65	ng/ml	86
55)	Dibenzofuran	9.814	168	5661111	7439.49	ng/ml	95
56)	2,3,5,6-Tetrachlorophenol	9.900	232	1036798	7358.66	ng/ml	98
57)	2,3,4,6-Tetrachlorophenol	9.948	232	1042101	7329.16	ng/ml	99
58)	Diethyl phthalate	10.044	149	4425252	7779.88	ng/ml	97
59)	2,3,5-Trimethylnaphtha...	10.028	170	3527302	7332.42	ng/ml	95
60)	Fluorene	10.167	166	4434734	7355.78	ng/ml	98
61)	4-Chlorophenyl phenyl ...	10.157	204	2057560	7408.98	ng/ml	96
62)	4-Nitroaniline	10.205	138	1287148	7096.82	ng/ml	93
63)	4,6-Dinitro-2-methylph...	10.232	198	888155	7886.32	ng/ml	99
65)	N-Nitrosodiphenylamine	10.285	169	3946343	8336.58	ng/ml	98
66)	Azobenzene (1,2-DPH)	10.323	77	4878704	8219.21	ng/ml	98
68)	4-Bromophenyl phenyl e...	10.654	248	1287364	8875.26	ng/ml	98
69)	Hexachlorobenzene	10.740	284	1362036	8587.79	ng/ml	98
70)	Pentachlorophenol (PCP)	10.932	266	690537	7416.42	ng/ml	98
71)	Phenanthrene	11.146	178	6341312	7491.31	ng/ml	97
72)	Anthracene	11.194	178	6386571	7901.68	ng/ml	97
73)	Carbazole	11.360	167	5897783	8320.16	ng/ml	97
74)	Di-n-butyl phthalate	11.697	149	6994252	8095.20	ng/ml	99
75)	Fluoranthene	12.408	202	6530136	8091.75	ng/ml	94
76)	Benzidine	12.569	184	7155359	14619.04	ng/ml	97
77)	Pyrene	12.697	202	6732048	8017.47	ng/ml	96
80)	Butyl benzyl phthalate	13.692	149	3192518	7861.03	ng/ml	93
81)	Bis(2-ethylhexyl) adipate	13.858	129	3069810	8455.62	ng/ml	99
82)	3,3-Dichlorobenzidine	14.842	252	3772307	15457.72	ng/ml	99
83)	Benz(a)anthracene	14.858	228	6005247	8817.35	ng/ml	97
84)	Chrysene	14.949	228	5634616	8293.53	ng/ml	98
85)	Bis(2-ethylhexyl) phth...	15.008	149	4576705	8117.46	ng/ml	99
87)	Di-n-octyl phthalate	16.671	149	7399905	7758.70	ng/ml	99
88)	Benzo(b)fluoranthene	17.458	252	5502049	7805.73	ng/ml	95
89)	Benzo(k)fluoranthene	17.527	252	5138884	8397.44	ng/ml	96
90)	Benzo(b+k)fluoranthene	17.527	252	11064773	16237.02	ng/ml	96
91)	Benzo(e)pyrene	18.110	252	5118312	7971.46	ng/ml	97
92)	Benzo(a)pyrene	18.233	252	4722269	7421.27	ng/ml	98
93)	Perylene	18.431	252	4332908	8173.75	ng/ml	98
95)	Indeno(1,2,3-cd)pyrene	20.768	276	4491475	8593.77	ng/ml	92
96)	Dibenz(a,h)anthracene	20.827	278	4324753	8774.61	ng/ml	93
97)	Benzo(g,h,i)perylene	21.309	276	4378063	8951.23	ng/ml	87

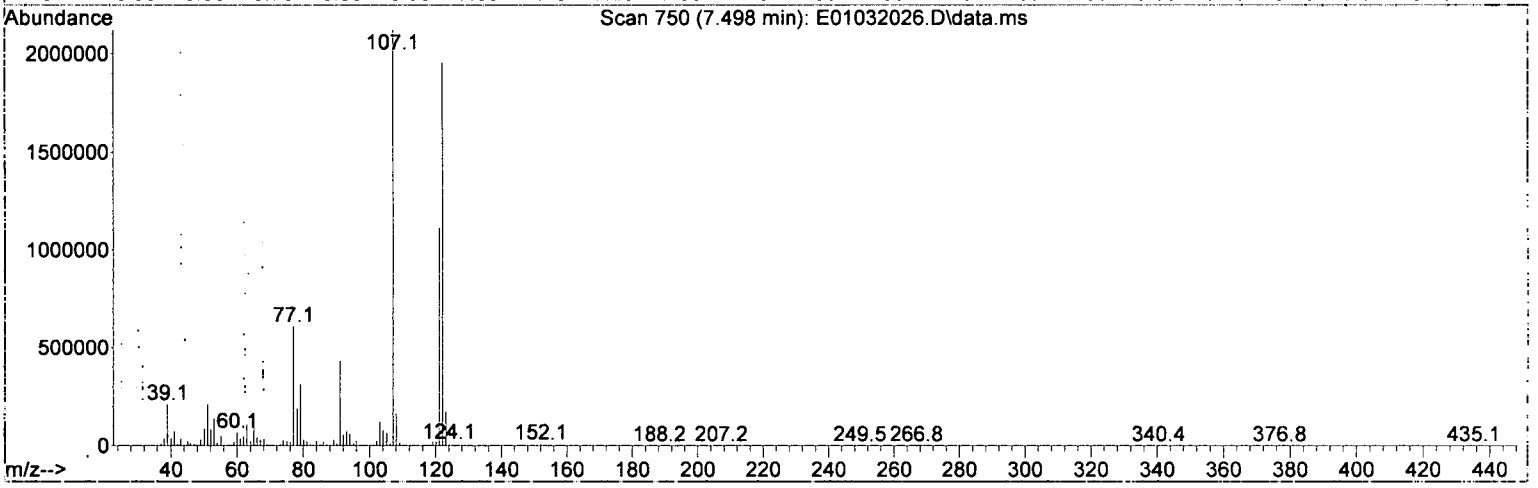
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032026.D
Acq On : 4 Jan 2020 00:04
Operator : JK/ AMS /DTH
Sample : 0A03043-CALA
Misc : 1x, A20A031@8000
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:13 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032026.D\data.ms

(26) Benzoic acid (T)

7.498min (-0.064) 1691.09 ng/ml

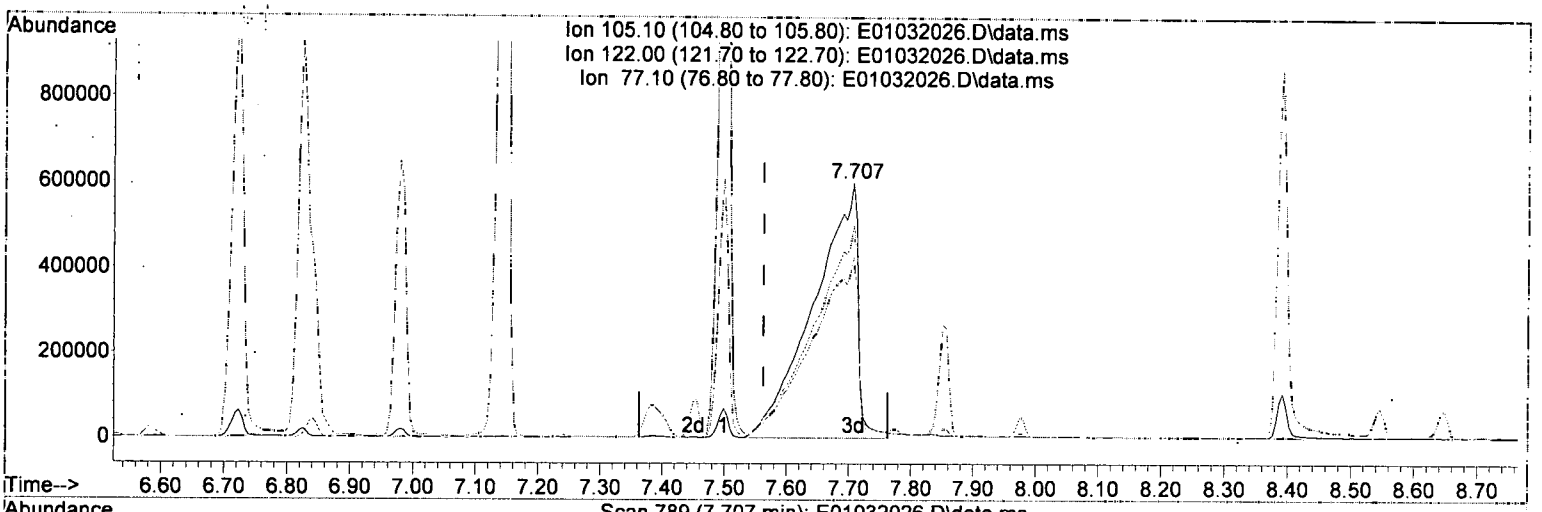
response 74021

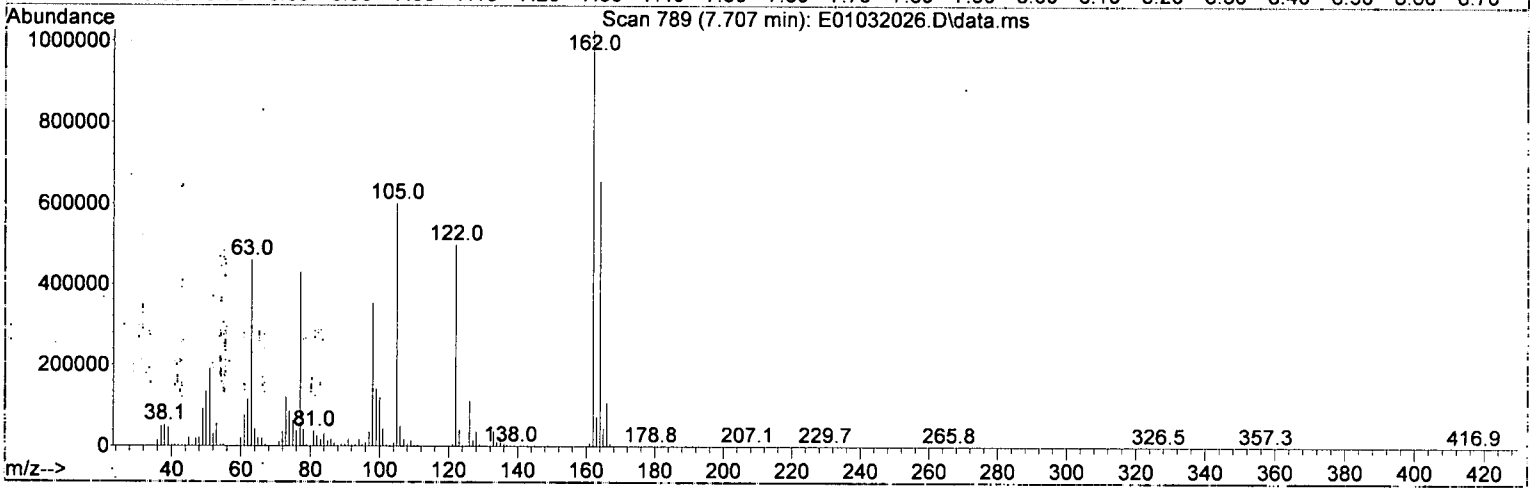
Ion	Exp%	Act%
105.10	100.00	100.00
122.00	87.10	2874.05#
77.10	69.80	894.10#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032026.D
Acq On : 4 Jan 2020 00:04
Operator : JK/ AMS /DTH
Sample : 0A03043-CALA
Misc : 1x, A20A031@8000
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:13 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5





TIC: E01032026.D\data.ms

(26) Benzoic acid (T)

7.707min (+ 0.145) 14407.27 ng/ml m

response 2958383

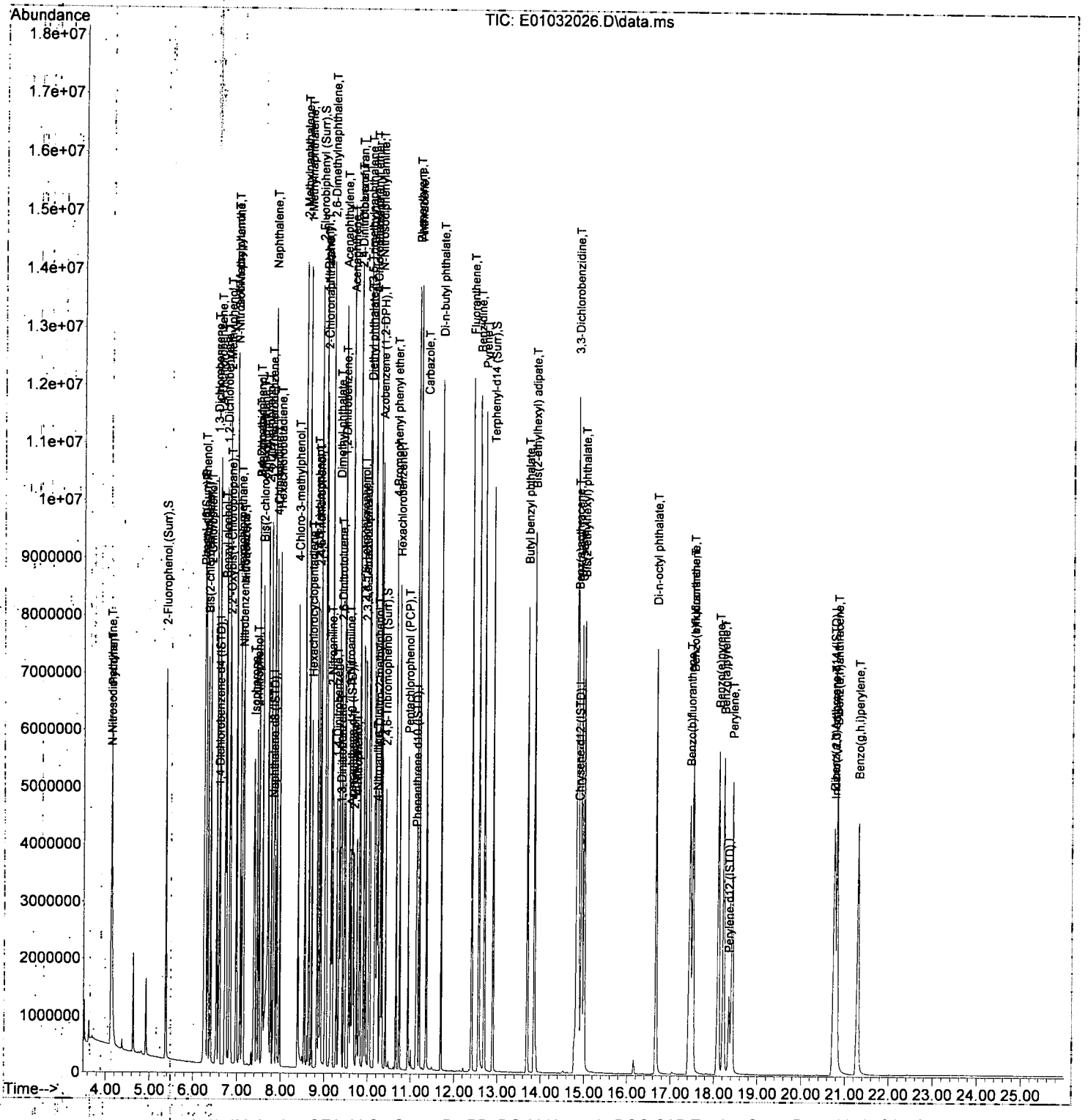
Ion	Exp%	Act%
105.10	100.00	100.00
122.00	87.10	83.10
77.10	69.80	71.49
0.00	0.00	0.00

1/6/20

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032026.D
Acq On : 4 Jan 2020 00:04
Operator : JK/ AMS /DTH
Sample : 0A03043-CALA
Misc : 1x, A20A031@8000
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:13 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032028.D
Acq On : 4 Jan 2020 1:17
Operator : JK/ AMS /DTH
Sample : 0A03043-ICV1
Misc : 1x/ A19I254@1000
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:25 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

9/2 1/6/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.578	152	519952	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.825	136	1984279	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.600	162	904392	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1462085	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.858	240	1282738	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.329	264	1129038	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.715	292	845110	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.370	112	339499	1024.53	ng/ml	0.00
5) Phenol-d6 (Surr)	6.231	99	434009	1015.54	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.113	82	378851	1034.45	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.905	172	691690	1037.29	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.403	330	59233	978.10	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.884	244	594173	1029.74	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.107	74	248043	1009.46	ng/ml	96
3) Pyridine	4.134	79	319760	853.60	ng/ml	94
6) Phenol	6.241	94	504952	1042.99	ng/ml	96
7) Aniline	6.268	93	548884	1003.68	ng/ml	96
8) Bis(2-chloroethyl) ether	6.316	93	394968	985.64	ng/ml	92
9) 2-Chlorophenol	6.380	128	367484	1018.80	ng/ml	92
10) 1,3-Dichlorobenzene	6.525	146	396036	978.00	ng/ml	97
11) 1,4-Dichlorobenzene	6.594	146	408979	989.73	ng/ml	99
12) Benzyl alcohol	6.707	108	178227	951.64	ng/ml	94
13) 1,2-Dichlorobenzene	6.744	146	386093	987.92	ng/ml	98
14) 2-Methylphenol	6.814	107	278737	987.37	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	6.835	45	518283	978.79	ng/ml	89
16) N-Nitrosodi-n-propylamine	6.958	70	266559	1043.04	ng/ml	94
17) 3+4-Methylphenol	6.963	107	350737	1008.31	ng/ml	96
18) Hexachloroethane	7.070	117	150163	1009.71	ng/ml	91
20) Nitrobenzene	7.129	77	377675	1014.25	ng/ml	94
22) Isophorone	7.359	82	677879	1072.66	ng/ml	95
23) 2-Nitrophenol	7.445	139	174938	1040.10	ng/ml	89
24) 2,4-Dimethylphenol	7.482	122	212781	814.21	ng/ml	98
25) Bis(2-chloroethoxy) me...	7.568	93	445017	1018.89	ng/ml	98
26) Benzoic acid	7.562	105	77760	1695.34	ng/ml	95
27) 2,4-Dichlorophenol	7.685	162	220763	976.50	ng/ml	96
28) 1,2,4-Trichlorobenzene	7.766	180	295495	999.73	ng/ml	99
29) Naphthalene	7.846	128	1073726	1020.42	ng/ml	100
30) 4-Chloroaniline	7.894	127	344661	949.21	ng/ml	95
31) Hexachlorobutadiene	7.974	225	146631	1001.87	ng/ml	100
32) 4-Chloro-3-methylphenol	8.386	107	189538	862.95	ng/ml	95
33) 2-Methylnaphthalene	8.541	142	694263	1028.37	ng/ml	99
34) 1-Methylnaphthalene	8.638	142	659693	1024.05	ng/ml	99
36) Hexachlorocyclopentadiene	8.707	237	120537	1084.47	ng/ml	100
37) 2,4,6-Trichlorophenol	8.825	196	134007	936.83	ng/ml	98
38) 2,4,5-Trichlorophenol	8.868	196	119249	875.27	ng/ml	99
39) 1,1'-Biphenyl	9.007	154	776249	1008.86	ng/ml	99
41) 2-Chloronaphthalene	9.033	162	573257	1002.98	ng/ml	99
42) 2-Nitroaniline	9.135	138	172023	1001.49	ng/ml	90
43) 2,6-Dimethylnaphthalene	9.172	156	567544	1018.89	ng/ml	100

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032028.D
Acq On : 4 Jan 2020 1:17
Operator : JK/ AMS /DTH
Sample : 0A03043-ICV1
Misc : 1x, A19I254@1000
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:25 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5

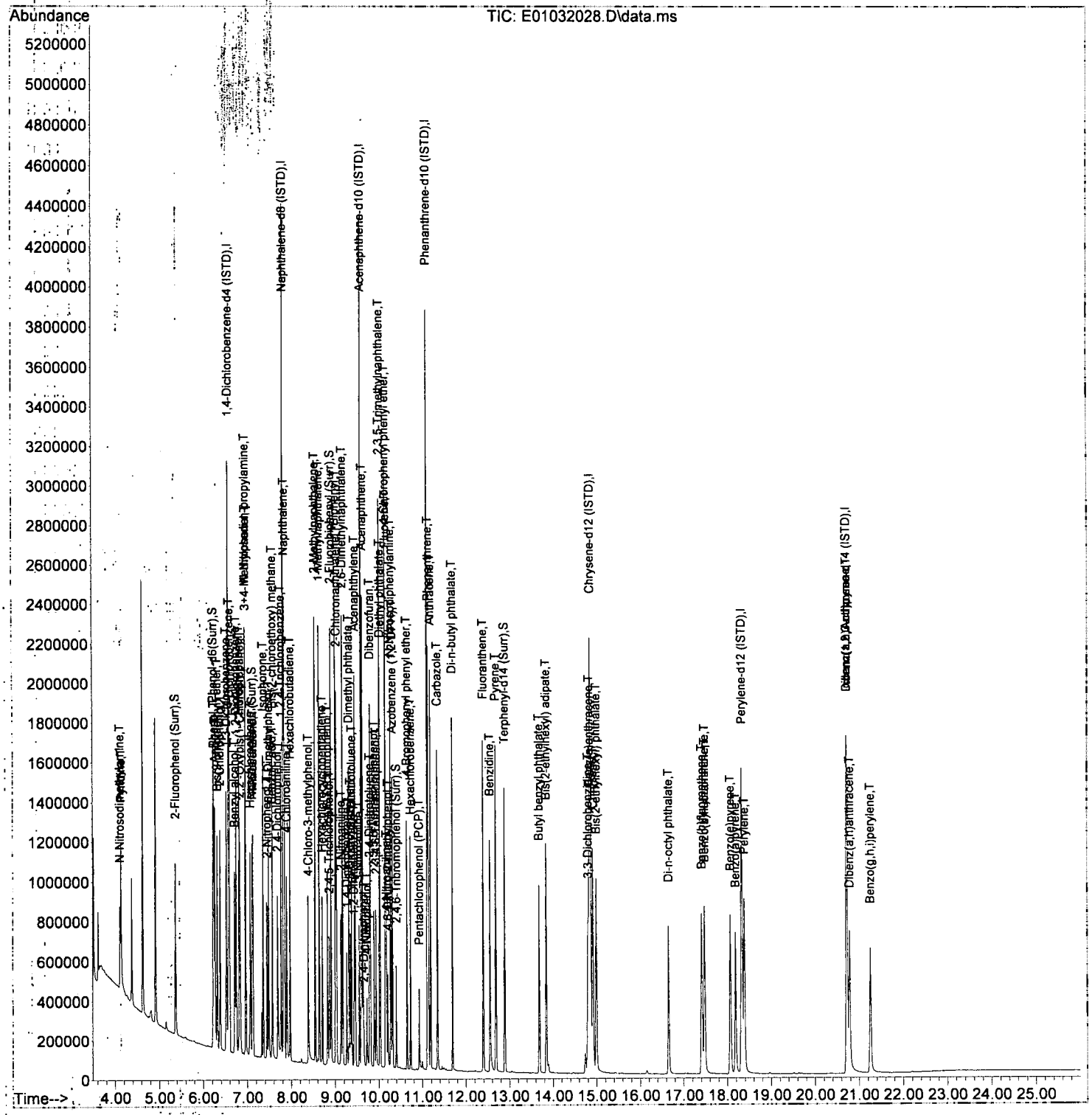
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,4-Dinitrobenzene	9.263	168	76696	1003.71 ng/ml	79
45) Dimethyl phthalate	9.311	163	604854	1034.20 ng/ml	99
46) 1,3-Dinitrobenzene	9.344	168	90300	917.45 ng/ml	91
47) 2,6-Dinitrotoluene	9.376	165	136233	980.76 ng/ml	86
48) 1,2-Dinitrobenzene	9.429	168	61730	968.10 ng/ml	74
49) Acenaphthylene	9.456	152	920635	1068.84 ng/ml	99
50) 3-Nitroaniline	9.547	138	131677	864.33 ng/ml	91
51) Acenaphthene	9.632	153	604831	1009.05 ng/ml	98
52) 2,4-Dinitrophenol	9.654	184	30063	846.45 ng/ml	86
53) 4-Nitrophenol	9.723	139	73799	805.61 ng/ml	97
54) 2,4-Dinitrotoluene	9.787	165	166043	952.00 ng/ml	90
55) Dibenzofuran	9.804	168	774862	995.12 ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	9.889	232	98020	941.13 ng/ml	93
57) 2,3,4,6-Tetrachlorophenol	9.937	232	104642	897.14 ng/ml	97
58) Diethyl phthalate	10.028	149	599477	1029.96 ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.017	170	504519	1024.93 ng/ml	100
60) Fluorene	10.157	166	622962	1009.80 ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.146	204	273845	963.66 ng/ml	91
62) 4-Nitroaniline	10.173	138	137476	906.58 ng/ml	94
63) 4,6-Dinitro-2-methylph...	10.205	198	70679	978.99 ng/ml	94
65) N-Nitrosodiphenylamine	10.269	169	487061	1056.18 ng/ml	100
66) Azobenzene (1,2-DPH)	10.306	77	659058	1139.75 ng/ml	87
68) 4-Bromophenyl phenyl e...	10.643	248	145023	1026.31 ng/ml	93
69) Hexachlorobenzene	10.729	284	158618	1026.61 ng/ml	99
70) Pentachlorophenol (PCP)	10.921	266	46207	881.67 ng/ml	98
71) Phenanthrene	11.135	178	832992	1010.14 ng/ml	100
72) Anthracene	11.183	178	822655	1044.79 ng/ml	100
73) Carbazole	11.344	167	721887	1045.38 ng/ml	99
74) Di-n-butyl phthalate	11.686	149	906386	1076.86 ng/ml	100
75) Fluoranthene	12.398	202	822257	1045.90 ng/ml	97
76) Benzidine	12.547	184	593462	1652.72 ng/ml	97
77) Pyrene	12.681	202	856371	1046.92 ng/ml	99
80) Butyl benzyl phthalate	13.676	149	334358	999.30 ng/ml	88
81) Bis(2-ethylhexyl) adipate	13.842	129	316689	936.50 ng/ml	99
82) 3,3-Dichlorobenzidine	14.805	252	284825	2235.25 ng/ml	98
83) Benz(a)anthracene	14.831	228	726384	1053.83 ng/ml	98
84) Chrysene	14.917	228	695013	1010.80 ng/ml	99
85) Bis(2-ethylhexyl) phth...	14.992	149	484760	1061.99 ng/ml	98
87) Di-n-octyl phthalate	16.650	149	638256	984.98 ng/ml	97
88) Benzo(b)fluoranthene	17.415	252	624049	1043.66 ng/ml	97
89) Benzo(k)fluoranthene	17.479	252	640708	1040.64 ng/ml	97
90) Benzo(b+k)fluoranthene	17.479	252	1298275	2069.15 ng/ml	97
91) Benzo(e)pyrene	18.062	252	614002	1013.59 ng/ml	99
92) Benzo(a)pyrene	18.185	252	534526	998.09 ng/ml	98
93) Perylene	18.388	252	656635	1199.88 ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.715	276	489847	988.11 ng/ml	91
96) Dibenz(a,h)anthracene	20.784	278	473650	1013.15 ng/ml	96
97) Benzo(g,h,i)perylene	21.250	276	513558	1106.99 ng/ml	89

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

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032028.D
Acq On : 4 Jan 2020 1:17
Operator : JK/ AMS /DTH
Sample : 0A03043-ICV1
Misc : 1x, A19I254@1000
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 09:44:25 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 09:42:27 2020
Response via : Initial Calibration
InstName : SV-GCMS5



Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032028.D
Acq On : 4 Jan 2020 1:17
Operator : JK/ AMS /DTH
Sample : 0A03043-ICV1
Misc : 1x, A19I254@1000
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Final Reagent

GR 1/6/20

Quant Time: Jan 06 12:31:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.578	152	519952	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	7.825	136	1984279	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.600	162	904392	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.109	188	1462085	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	14.858	240	1282738	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.329	264	1129038	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	20.715	292	845110	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.370	112	339499	1033.75	ng/ml	0.00
5) Phenol-d6(Surr)	6.231	99	434009	1039.57	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.113	82	378851	1040.59	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	8.905	172	691690	1020.04	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.403	330	59233	998.66	ng/ml	0.00
79) Terphenyl-d14 (Surr)	12.884	244	594173	1029.92	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.107	74	248043	995.44	ng/ml	96
3) Pyridine	4.134	79	319760	839.86	ng/ml	94
6) Phenol	6.241	94	504952	1030.18	ng/ml	96
7) Aniline	6.268	93	548884	1006.78	ng/ml	96
8) Bis(2-chloroethyl) ether	6.316	93	394968	974.68	ng/ml	92
9) 2-Chlorophenol	6.380	128	367484	1044.82	ng/ml	92
10) 1,3-Dichlorobenzene	6.525	146	396036	953.76	ng/ml	97
11) 1,4-Dichlorobenzene	6.594	146	408979	973.89	ng/ml	99
12) Benzyl alcohol	6.707	108	178227	868.45	ng/ml	94
13) 1,2-Dichlorobenzene	6.744	146	386093	970.48	ng/ml	98
14) 2-Methylphenol	6.814	107	278737	1034.93	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	6.835	45	518283	982.45	ng/ml	89
16) N-Nitrosodi-n-propylamine	6.958	70	266559	1066.15	ng/ml	94
17) 3+4-Methylphenol	6.963	107	350737	964.92	ng/ml	96
18) Hexachloroethane	7.070	117	150163	979.07	ng/ml	91
20) Nitrobenzene	7.129	77	377675	997.01	ng/ml	94
22) Isophorone	7.359	82	677879	1026.63	ng/ml	95
23) 2-Nitrophenol	7.445	139	174938	1029.71	ng/ml	89
24) 2,4-Dimethylphenol	7.482	122	212781	872.27	ng/ml	98
25) Bis(2-chloroethoxy) me...	7.568	93	445017	995.12	ng/ml	98
26) Benzoic acid	7.562	105	77760	1690.49	ng/ml	95
27) 2,4-Dichlorophenol	7.685	162	220763	1018.89	ng/ml	96
28) 1,2,4-Trichlorobenzene	7.766	180	295495	980.71	ng/ml	99
29) Naphthalene	7.846	128	1073726	982.43	ng/ml	100
30) 4-Chloroaniline	7.894	127	344661	964.05	ng/ml	95
31) Hexachlorobutadiene	7.974	225	146631	977.10	ng/ml	100
32) 4-Chloro-3-methylphenol	8.386	107	189538	882.05	ng/ml	95
33) 2-Methylnaphthalene	8.541	142	694263	1011.23	ng/ml	99
34) 1-Methylnaphthalene	8.638	142	659693	1026.90	ng/ml	99
36) Hexachlorocyclopentadiene	8.707	237	120537	993.67	ng/ml	100
37) 2,4,6-Trichlorophenol	8.825	196	134007	978.45	ng/ml	98
38) 2,4,5-Trichlorophenol	8.868	196	119249	948.45	ng/ml	99
39) 1,1'-Biphenyl	9.007	154	776249	1007.83	ng/ml	99
41) 2-Chloronaphthalene	9.033	162	573257	979.90	ng/ml	99
42) 2-Nitroaniline	9.135	138	172023	1046.49	ng/ml	90
43) 2,6-Dimethylnaphthalene	9.172	156	567544	1013.21	ng/ml	100

Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032028.D
Acq On : 4 Jan 2020 1:17
Operator : JK/ AMS /DTH
Sample : 0A03043-ICV1
Misc : 1x, A19I254@1000
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:31:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,4-Dinitrobenzene	9.263	168	76696	1026.53	ng/ml	79
45) Dimethyl phthalate	9.311	163	604854	1033.65	ng/ml	99
46) 1,3-Dinitrobenzene	9.344	168	90300	1014.53	ng/ml	91
47) 2,6-Dinitrotoluene	9.376	165	136233	1025.69	ng/ml	86
48) 1,2-Dinitrobenzene	9.429	168	61730	935.64	ng/ml	74
49) Acenaphthylene	9.456	152	920635	1064.46	ng/ml	99
50) 3-Nitroaniline	9.547	138	131677	895.84	ng/ml	91
51) Acenaphthene	9.632	153	604831	982.45	ng/ml	98
52) 2,4-Dinitrophenol	9.654	184	30063	893.23	ng/ml	86
53) 4-Nitrophenol	9.723	139	73799	865.48	ng/ml	97
54) 2,4-Dinitrotoluene	9.787	165	166043	989.37	ng/ml	90
55) Dibenzofuran	9.804	168	774862	998.44	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	9.889	232	98020	1047.33	ng/ml	93
57) 2,3,4,6-Tetrachlorophenol	9.937	232	104642	1015.85	ng/ml	97
58) Diethyl phthalate	10.028	149	599477	1048.52	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.017	170	504519	1027.23	ng/ml	100
60) Fluorene	10.157	166	622962	1007.13	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.146	204	273845	994.05	ng/ml	91
62) 4-Nitroaniline	10.173	138	137476	946.67	ng/ml	94
63) 4,6-Dinitro-2-methylph...	10.205	198	70679	944.83	ng/ml	94
65) N-Nitrosodiphenylamine	10.269	169	487061	972.13	ng/ml	100
66) Azobenzene (1,2-DPH)	10.306	77	659058	995.35	ng/ml	87
68) 4-Bromophenyl phenyl e...	10.643	248	145023	1009.50	ng/ml	93
69) Hexachlorobenzene	10.729	284	158618	973.11	ng/ml	99
70) Pentachlorophenol (PCP)	10.921	266	46207	945.90	ng/ml	98
71) Phenanthrene	11.135	178	832992	972.19	ng/ml	100
72) Anthracene	11.183	178	822655	1036.73	ng/ml	100
73) Carbazole	11.344	167	721887	991.00	ng/ml	99
74) Di-n-butyl phthalate	11.686	149	906386	1017.11	ng/ml	100
75) Fluoranthene	12.398	202	822257	1057.72	ng/ml	97
76) Benzidine	12.547	184	593462	1783.65	ng/ml	97
77) Pyrene	12.681	202	856371	1050.00	ng/ml	99
80) Butyl benzyl phthalate	13.676	149	334358	1020.56	ng/ml	88
81) Bis(2-ethylhexyl) adipate	13.842	129	316689	1012.91	ng/ml	99
82) 3,3-Dichlorobenzidine	14.805	252	284825	1901.25	ng/ml	98
83) Benz(a)anthracene	14.831	228	726384	1014.42	ng/ml	98
84) Chrysene	14.917	228	695013	977.11	ng/ml	99
85) Bis(2-ethylhexyl) phth...	14.992	149	484760	999.81	ng/ml	98
87) Di-n-octyl phthalate	16.650	149	638256	1047.54	ng/ml	97
88) Benzo(b)fluoranthene	17.415	252	624049	1048.02	ng/ml	97
89) Benzo(k)fluoranthene	17.479	252	640708	1022.20	ng/ml	97
90) Benzo(b+k)fluoranthene	17.479	252	1298275	2054.27	ng/ml	97
91) Benzo(e)pyrene	18.062	252	614002	1042.64	ng/ml	99
92) Benzo(a)pyrene	18.185	252	534526	1096.60	ng/ml	98
93) Perylene	18.388	252	656635	1206.11	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	20.715	276	489847	972.42	ng/ml	91
96) Dibenz(a,h)anthracene	20.784	278	473650	982.68	ng/ml	96
97) Benzo(g,h,i)perylene	21.250	276	513558	1062.12	ng/ml	89

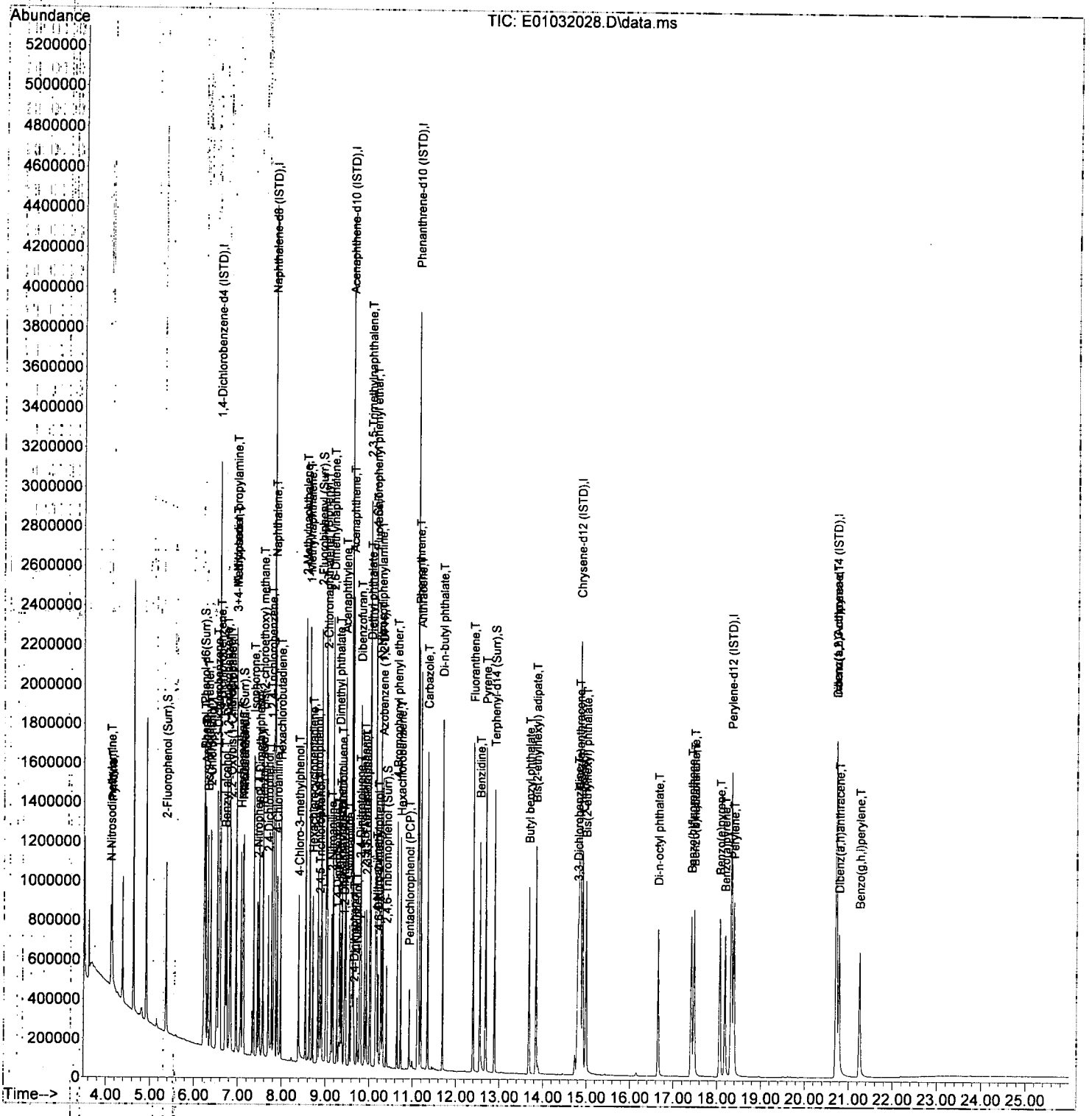
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quantitation Report (Not Reviewed)

Data Path : Z:\DATA\2020-01\0A03043\
Data File : E01032028.D
Acq On : 4 Jan 2020 1:17
Operator : JK/ AMS /DTH
Sample : 0A03043-ICV1
Misc : 1x, A19I254@1000
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:SV5_AQUISITION.M

Quant Time: Jan 06 12:31:30 2020
Quant Method : Z:\METHODS\SV5_010320.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Jan 06 10:51:56 2020
Response via : Initial Calibration
InstName : SV-GCMS5



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Calibration Data

Sequence 0E01048 (Cal ID A0E0506) SV-GCMS10

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0E01048	Instrument:	SV-GCMS10
Date:	**05/01/20 13:59**	Calibration:	**A0E0506**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E01048-TUN1	Water	QC	QC			A20C061	A20D411
2	0E01048-ICB1	Water	QC	QC			A20C061	
3	0E01048-CAL1	Water	QC	QC			A20C061	A20D243
4	0E01048-CAL2	Water	QC	QC			A20C061	A20D244
5	0E01048-CAL3	Water	QC	QC			A20C061	A20D245
6	0E01048-CAL4	Water	QC	QC			A20C061	A20D246
7	0E01048-CAL5	Water	QC	QC			A20C061	A20D247
8	0E01048-CAL6	Water	QC	QC			A20C061	A20D248
9	0E01048-CAL7	Water	QC	QC			A20C061	A20D249
10	0E01048-CAL8	Water	QC	QC			A20C061	A20D250
11	0E01048-CAL9	Water	QC	QC			A20C061	A20D251
12	0E01048-CALA	Water	QC	QC			A20C061	A20D252
13	0E01048-IBL1	Water	QC	QC			A20C061	
14	0E01048-ICV1	Water	QC	QC			A20C061	A20C090
15	0E01048-IBL2	Water	QC	QC			A20C061	

Data Entered By: JK 5/5/20

Comments:

Data Reviewed By: MKZ 5/6/2020

5/5/2020 4:15:38PM

Calibration Status Report SV-GCMS10

Method Path : C:\msdchem\1\methods\
Method File : SV10_050120.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon May 04 11:17:09 2020
Response Via : Initial Calibration

JK 5/5/20

A0E0506

#	ID	Conc	ISTD Conc	Path\File
1	20	20	2000	C:\msdchem\1\data\2020-05\0E01048\J05012011.D
2	50	50	2000	C:\msdchem\1\data\2020-05\0E01048\J05012012.D
3	100	100	2000	C:\msdchem\1\data\2020-05\0E01048\J05012013.D
4	200	200	2000	C:\msdchem\1\data\2020-05\0E01048\J05012014.D
5	500	500	2000	C:\msdchem\1\data\2020-05\0E01048\J05012015.D
6	1000	1000	2000	C:\msdchem\1\data\2020-05\0E01048\J05012016.D
7	2000	2000	2000	C:\msdchem\1\data\2020-05\0E01048\J05012017.D
8	4000	4000	2000	C:\msdchem\1\data\2020-05\0E01048\J05012018.D
9	6000	6000	2000	C:\msdchem\1\data\2020-05\0E01048\J05012019.D
10	8000	8000	2000	C:\msdchem\1\data\2020-05\0E01048\J05012020.D

#	ID	Update Time	Quant Time	Acquisition Time
1	20	May 04 11:16 2020	May 04 11:01 2020	1 May 2020 3:16 pm
2	50	May 04 11:16 2020	May 04 11:03 2020	1 May 2020 3:53 pm
3	100	May 04 11:16 2020	May 04 11:04 2020	1 May 2020 6:15 pm
4	200	May 04 11:16 2020	May 04 11:05 2020	1 May 2020 6:50 pm
5	500	May 04 11:16 2020	May 04 11:06 2020	1 May 2020 7:26 pm
6	1000	May 04 11:16 2020	May 04 11:06 2020	1 May 2020 8:01 pm
7	2000	May 04 11:16 2020	May 04 11:07 2020	1 May 2020 8:36 pm
8	4000	May 04 11:17 2020	May 04 11:08 2020	1 May 2020 9:11 pm
9	6000	May 04 11:17 2020	May 04 11:10 2020	1 May 2020 9:46 pm
10	8000	May 04 11:17 2020	May 04 11:11 2020	1 May 2020 10:21 pm

SV10_050120.M Tue May 05 14:49:39 2020

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Response Factor Report SV-GCMS10

Method Path : C:\msdchem\1\methods\
Method File : SV10_050120.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon May 04 11:17:09 2020
Response Via : Initial Calibration

JK 5/5/20

Calibration Files
20 =J05012011.D 50 =J05012012.D 100 =J05012013.D 200 =J05012014.D 500 =J05012015.D
1000=J05012016.D 2000=J05012017.D 4000=J05012018.D 6000=J05012019.D 8000=J05012020.D

		Compound	20	50	100	200	500	1000	2000	4000	6000	8000	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------											
2)	TG	N-Nitrosodimet...	0.550	0.640	0.728	0.718	0.752	0.732	0.754	0.752	0.792	0.774	0.719	10.02
3)	TG	Pyridine		0.833	0.972	1.152	1.223	1.177	1.270	1.266	1.369	1.335	1.177	14.75
4)	S	2-Fluorophenol...	1.018	1.115	1.118	1.166	1.270	1.259	1.314	1.292	1.320	1.269	1.214	8.48
5)	S	Phenol-d6(Surr)	1.235	1.267	1.313	1.435	1.505	1.542	1.561	1.494	1.488	1.454	1.429	8.14
6)	T	Phenol	1.412	1.187	1.283	1.631	1.524	1.535	1.658	1.576	1.544	1.493	1.484	10.10
7)	T	Aniline	1.251	1.378	1.387	1.512	1.520	1.487	1.503	1.558	1.620	1.675	1.489	8.31
8)	T	Bis(2-chloroet...	1.276	1.317	1.269	1.375	1.417	1.432	1.442	1.285	1.230	1.139	1.318	7.44
9)	T	2-Chlorophenol	1.186	1.226	1.296	1.346	1.457	1.443	1.440	1.384	1.369	1.315	1.346	6.83
10)	T	1,3-Dichlorobe...	1.793	1.693	1.746	1.677	1.711	1.646	1.607	1.530	1.493	1.452	1.635	6.88
11)	T	1,4-Dichlorobe...	1.652	1.711	1.676	1.629	1.678	1.585	1.593	1.488	1.426	1.400	1.584	6.93
12)	T	Benzyl alcohol	0.463	0.492	0.575	0.631	0.733	0.790	0.833	0.817	0.792	0.796	0.692	20.31
13)	T	1,2-Dichlorobe...	1.442	1.615	1.627	1.672	1.673	1.576	1.530	1.418	1.368	1.325	1.525	8.40
14)	T	2-Methylphenol	0.933	0.836	0.948	1.003	1.054	1.057	1.047	0.977	0.925	0.886	0.967	7.76
15)	T	2,2'-Oxybis(1-...	1.028	1.110	1.126	1.126	1.115	1.076	1.027	0.952	0.874	0.840	1.028	10.30
16)	T	N-Nitrosodi-n-...	0.672	0.690	0.765	0.834	0.821	0.813	0.798	0.725	0.700	0.679	0.750	8.48
17)	T	3+4-Methylphenol	1.010	1.047	1.237	1.270	1.337	1.348	1.321	1.199	1.136		1.212	10.26
18)	T	Hexachloroethane	0.484	0.577	0.588	0.570	0.601	0.577	0.590	0.566	0.555	0.551	0.566	5.80
19)	S	Nitrobenzene-d...	1.007	0.993	1.086	1.165	1.193	1.229	1.210	1.148	1.142	1.102	1.127	7.15
20)	T	Nitrobenzene	1.022	1.030	1.167	1.156	1.238	1.185	1.187	1.115	1.084	1.035	1.122	6.78
21)	I	Naphthalene-d8 (ISTD)	----------ISTD----------											
22)	T	Isophorone	0.515	0.543	0.611	0.615	0.624	0.615	0.614	0.586	0.582	0.571	0.588	6.11
23)	T	2-Nitrophenol			0.152	0.162	0.197	0.210	0.201	0.200	0.193	0.193	0.188	10.78
24)	T	2,4-Dimethylph...		0.246	0.266	0.300	0.315	0.316	0.303	0.277	0.266		0.286	9.05

Method Path : C:\msdchem\1\methods\
Method File : SV10_050120.M
Title : EPA 8270D: Semivolatile Organics

25)	T	Bis(2-chloroet...	0.346	0.375	0.385	0.384	0.394	0.381	0.382	0.357	0.330	0.314	0.365	7.40
26)	T	Benzoic acid					0.044	0.084	0.128	0.174	0.202	0.204	0.140	47.21
27)	T	2,4-Dichloroph...		0.229	0.265	0.287	0.311	0.314	0.323	0.302	0.290	0.276	0.289	10.14
28)	T	1,2,4-Trichlor...	0.382	0.374	0.385	0.391	0.395	0.382	0.368	0.343	0.321	0.313	0.365	8.05
29)	T	Naphthalene	1.122	1.192	1.160	1.177	1.165	1.122	1.064	0.967	0.882	0.834	1.068	12.10
30)	T	4-Chloroaniline	0.258	0.311	0.327	0.353	0.379	0.385	0.365	0.320			0.337	12.44
31)	T	Hexachlorobuta...	0.216	0.241	0.230	0.238	0.240	0.229	0.224	0.213	0.207	0.204	0.224	6.11
32)	T	4-Chloro-3-met...		0.184	0.215	0.240	0.267	0.269	0.283	0.277	0.269	0.259	0.251	13.00
33)	T	2-Methylnaphth...	0.679	0.756	0.786	0.804	0.777	0.766	0.757	0.691	0.649	0.606	0.727	9.12
34)	T	1-Methylnaphth...	0.697	0.718	0.761	0.737	0.728	0.706	0.692	0.637	0.594	0.553	0.682	9.77
35)	I	Acenaphthene-d10 (...	----------ISTD----------											
36)	T	Hexachlorocycl...	0.337	0.363	0.385	0.402	0.436	0.434	0.437	0.443	0.422	0.428	0.409	8.79
37)	T	2,4,6-Trichlor...	0.212	0.263	0.348	0.364	0.433	0.445	0.433	0.446	0.421	0.420	0.379	21.65
38)	T	2,4,5-Trichlor...	0.229	0.269	0.336	0.372	0.434	0.433	0.446	0.438	0.414	0.395	0.377	20.14
39)	T	1,1'-Biphenyl	1.708	1.818	1.908	1.844	1.837	1.780	1.678	1.550	1.390	1.302	1.682	12.18
40)	S	2-Fluorobiphen...	1.635	1.703	1.766	1.741	1.737	1.661	1.591	1.474	1.353	1.272	1.593	10.79
41)	T	2-Chloronaphth...	1.396	1.405	1.470	1.438	1.407	1.361	1.291	1.191	1.083	1.018	1.306	12.01
42)	T	2-Nitroaniline				0.269	0.293	0.362	0.387	0.406	0.403	0.391	0.391	0.363	14.44
43)	T	2,6-Dimethylna...	1.220	1.311	1.348	1.361	1.335	1.287	1.225	1.134	1.026	0.972	1.222	11.20
44)	T	1,4-Dinitroben...		0.077	0.108	0.131	0.166	0.186	0.206	0.212	0.211	0.213	0.168	30.40
45)	T	Dimethyl phtha...	1.287	1.436	1.565	1.595	1.578	1.529	1.483	1.391	1.286	1.253	1.440	9.06
46)	T	1,3-Dinitroben...				0.156	0.172	0.216	0.221	0.236	0.241	0.229	0.231	0.213	14.69
47)	T	2,6-Dinitrotol...				0.279	0.308	0.345	0.340	0.353	0.341	0.321	0.313	0.325	7.57
48)	T	1,2-Dinitroben...				0.124	0.131	0.158	0.159	0.164	0.162	0.153	0.149	0.150	9.95
49)	T	Acenaphthylene	1.838	2.044	2.140	2.180	2.197	2.077	2.001	1.808	1.621	1.493	1.940	12.47
50)	T	3-Nitroaniline		0.181	0.234	0.266	0.305	0.300	0.285	0.164			0.248	22.96
51)	T	Acenaphthene	1.332	1.473	1.410	1.449	1.418	1.367	1.308	1.193	1.101	1.047	1.310	11.31
52)	T	2,4-Dinitrophenol				0.017	0.050	0.081	0.118	0.153	0.162	0.177	0.108	56.21
53)	T	4-Nitrophenol		0.050	0.107	0.133	0.194	0.229	0.249	0.261	0.250	0.262	0.193	40.38
54)	T	2,4-Dinitrotol...		0.227	0.280	0.337	0.407	0.429	0.453	0.452	0.419	0.421	0.380	21.21
55)	T	Dibenzofuran	1.871	1.827	1.992	1.997	1.971	1.896	1.841	1.696	1.544	1.477	1.811	10.11
56)	T	2,3,5,6-Tetrac...		0.129	0.190	0.248	0.327	0.361	0.382	0.388	0.370	0.377	0.308	31.08
57)	T	2,3,4,6-Tetrac...		0.170	0.242	0.310	0.356	0.369	0.385	0.386	0.366	0.371	0.329	22.80
58)	T	Diethyl phthalate	1.385	1.505	1.546	1.546	1.548	1.462	1.354	1.223	1.052	1.012	1.363	14.89
59)	T	2,3,5-Trimethy...	1.116	1.141	1.229	1.284	1.292	1.199	1.125	1.009	0.916	0.861	1.117	13.21

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Method Path : C:\msdchem\1\methods\
Method File : SV10_050120.M
Title : EPA 8270D: Semivolatile Organics

60)	T	Fluorene	1.356	1.311	1.560	1.583	1.619	1.486	1.429	1.301	1.170	1.131	1.395	12.18
61)	T	4-Chlorophenyl...	0.723	0.718	0.788	0.791	0.796	0.744	0.726	0.696	0.646	0.639	0.727	7.71
62)	T	4-Nitroaniline				0.184	0.214	0.220	0.229	0.227	0.220	0.208	0.218	0.215	6.60
63)	T	4,6-Dinitro-2-...					0.074	0.135	0.179	0.215	0.244	0.238	0.244	0.190	34.24
64)	I	Phenanthrene-d10 (...	----------	ISTD	----------										
65)	T	N-Nitrosodiphe...	0.555	0.598	0.670	0.695	0.701	0.667	0.635	0.560	0.510	0.487	0.608	12.73
66)	T	Azobenzene (1,...	0.506	0.581	0.589	0.620	0.618	0.597	0.579	0.519	0.481	0.448	0.554	10.91
67)	S	2,4,6-Tribromo...	0.074	0.093	0.119	0.128	0.142	0.149	0.155	0.156	0.156	0.154	0.133	21.88
68)	T	4-Bromophenyl ...	0.233	0.248	0.253	0.261	0.265	0.254	0.254	0.249	0.244	0.238	0.250	3.89
69)	T	Hexachlorobenzene	0.337	0.353	0.360	0.352	0.336	0.319	0.304	0.289	0.280	0.272	0.320	10.09
70)	T	Pentachlorophe...			0.038	0.073	0.085	0.120	0.141	0.161	0.168	0.169	0.172	0.125	39.28
71)	T	Phenanthrene	1.252	1.206	1.227	1.237	1.220	1.164	1.091	1.022	0.947	0.891	1.126	11.63
72)	T	Anthracene	1.033	1.093	1.170	1.197	1.200	1.164	1.107	1.020	0.937	0.887	1.081	10.10
73)	T	Carbazole	0.734	0.858	0.924	0.975	1.005	0.930	0.813	0.480			0.840	20.24
74)	T	Di-n-butyl pht...				1.043	1.114	1.221	1.228	1.168	1.113	0.990	1.125	7.87
75)	T	Fluoranthene	0.982	1.089	1.194	1.283	1.318	1.315	1.282	1.201			1.208	9.91
76)	T	Benzidine				0.165	0.254	0.388	0.425	0.463	0.422	0.377	0.439	0.367	28.14
77)	T	Pyrene	1.048	1.132	1.247	1.314	1.389	1.316	1.289	1.197	1.101	1.057	1.209	9.93
78)	I	Chrysene-d12 (ISTD)	----------	ISTD	----------										
79)	S	Terphenyl-d14 ...	0.765	0.895	1.000	1.008	1.056	1.037	1.022	0.991	0.982	0.953	0.971	8.78
80)	T	Butyl benzyl p...			0.199	0.253	0.304	0.403	0.450	0.480	0.507	0.504	0.512	0.401	29.86
81)	T	Bis(2-ethylhex...					0.282	0.364	0.381	0.414	0.429	0.420	0.424	0.388	13.52
82)	T	3,3-Dichlorobe...					0.265	0.220	0.184	0.140	0.125	0.122	0.129	0.169	32.93
83)	T	Benz(a)anthracene	1.184	1.080	1.085	1.128	1.173	1.165	1.168	1.131	1.122	1.104	1.134	3.29
84)	T	Chrysene	1.001	1.081	1.053	1.112	1.132	1.097	1.093	1.067	1.045	1.000	1.068	4.13
85)	T	Bis(2-ethylhex...					0.441	0.589	0.629	0.667	0.674	0.664	0.645	0.616	13.36
86)	I	Perylene-d12 (ISTD)	----------	ISTD	----------										
87)	T	Di-n-octyl pht...				0.355	0.470	0.766	0.939	1.103	1.184	1.176	1.159	0.894	37.00
88)	T	Benzo(b)fluora...	0.709	0.766	0.887	0.991	1.137	1.129	1.209	1.198	1.192	1.183	1.040	18.25
89)	T	Benzo(k)fluora...	0.682	0.759	0.926	1.027	1.179	1.162	1.164	1.112	1.083	1.030	1.012	17.08
90)	T	Benzo(b+k)fluo...	0.743	0.821	0.957	1.059	1.195	1.181	1.216	1.181	1.164	1.130	1.065	15.83
91)	T	Benzo(e)pyrene	0.712	0.772	0.915	1.019	1.110	1.099	1.125	1.114	1.074	1.055	1.000	14.97
92)	T	Benzo(a)pyrene	0.548	0.630	0.696	0.816	0.956	0.972	1.004	0.995	0.976	0.948	0.854	19.93

07/15/20 Anchor QEA, LLC - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1183 of 1443

Method Path : C:\msdchem\1\methods\
Method File : SV10_050120.M
Title : EPA 8270D: Semivolatile Organics

93)	T	Perylene	0.884	0.930	0.992	0.980	1.026	0.993	0.999	0.965	0.944	0.923	0.963	4.45
94)	I	Dibenz(a,h)Anthrce...	----------	ISTD	----------									
95)	T	Indeno(1,2,3-c...	1.154	1.139	1.126	1.112	1.175	1.132	1.158	1.183	1.222	1.226	1.163	3.34
96)	T	Dibenz(a,h)ant...	0.996	1.003	1.042	1.089	1.148	1.104	1.115	1.132	1.105	1.071	1.081	4.80
97)	T	Benzo(g,h,i)pe...	0.776	0.896	1.041	1.106	1.226	1.207	1.240	1.208	1.179	1.125	1.101	14.06

(#) = Out of Range

07/15/20 Anchor QEA, LLC - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1184 of 1443

Compound List Report SV-GCMS10

Method Path : C:\msdchem\1\methods\
Method File : SV10_050120.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon May 04 11:17:09 2020
Response Via : Initial Calibration

JK 5/5/20

Total Cpnds : 97

All quadratic curve fits are 1/(a^2) except as noted

PK#			Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I		1,4-Dichlorobenzene-d4 (ISTD)	152	6.808	1.000	A	2	A	R
2		T	N-Nitrosodimethylamine	74	4.113	0.604	A	2	A	A
3		T	Pyridine	79	4.150	0.610	A	2	A	A
4	S		2-Fluorophenol (Surr)	112	5.525	0.811	A	1	A	R
5	S		Phenol-d6(Surr)	99	6.434	0.945	A	2	A	R
6		T	Phenol	94	6.445	0.947	A	2	A	R
7		T	Aniline	93	6.482	0.952	A	2	A	R
8		T	Bis(2-chloroethyl) ether	93	6.536	0.960	A	2	A	R
9		T	2-Chlorophenol	128	6.600	0.969	A	2	A	R
10		T	1,3-Dichlorobenzene	146	6.755	0.992	A	2	A	R
11		T	1,4-Dichlorobenzene	146	6.824	1.002	A	2	A	R
12		T	Benzyl alcohol	108	6.931	1.018	Q	2	A	R
13		T	1,2-Dichlorobenzene	146	6.980	1.025	A	2	A	R
14		T	2-Methylphenol	107	7.038	1.034	A	2	A	R
15		T	2,2'-Oxybis(1-Chloropropane)	45	7.071	1.038	A	2	A	R
16		T	N-Nitrosodi-n-propylamine	70	7.199	1.057	A	2	A	R
17		T	3+4-Methylphenol	107	7.188	1.056	A	3	A	R
18		T	Hexachloroethane	201	7.317	1.075	A	2	A	R
19	S		Nitrobenzene-d5 (Surr)	82	7.354	1.080	A	2	A	R
20		T	Nitrobenzene	77	7.370	1.082	A	2	A	R
21	I		Naphthalene-d8 (ISTD)	136	8.081	1.000	A	1	A	R
22		T	Isophorone	82	7.605	0.941	A	2	A	R
23		T	2-Nitrophenol	139	7.690	0.952	A	2	A	R
24		T	2,4-Dimethylphenol	122	7.723	0.956	A	2	A	R
25		T	Bis(2-chloroethoxy) methane	93	7.814	0.967	A	2	A	R
26		T	Benzoic acid	105	7.808	0.966	Q	2	A	R
27		T	2,4-Dichlorophenol	162	7.931	0.981	A	2	A	R
28		T	1,2,4-Trichlorobenzene	180	8.023	0.993	A	2	A	R
29		T	Naphthalene	128	8.103	1.003	A	1	A	R
30		T	4-Chloroaniline	127	8.145	1.008	A	2	A	R
31		T	Hexachlorobutadiene	225	8.231	1.019	A	2	A	R
32		T	4-Chloro-3-methylphenol	107	8.626	1.067	A	2	A	R
33		T	2-Methylnaphthalene	142	8.803	1.089	A	2	A	R
34		T	1-Methylnaphthalene	142	8.905	1.102	A	2	A	R
35	I		Acenaphthene-d10 (ISTD)	162	9.868	1.000	A	2	A	R
36		T	Hexachlorocyclopentadiene	237	8.969	0.909	A	2	A	R
37		T	2,4,6-Trichlorophenol	196	9.082	0.920	Q	2	A	R
38		T	2,4,5-Trichlorophenol	198	9.119	0.924	Q	2	A	R
39		T	1,1'-Biphenyl	154	9.274	0.940	A	2	A	R
40	S		2-Fluorobiphenyl (Surr)	172	9.167	0.929	A	2	A	R
41		T	2-Chloronaphthalene	162	9.296	0.942	A	2	A	R
42		T	2-Nitroaniline	138	9.391	0.952	A	2	A	R
43		T	2,6-Dimethylnaphthalene	156	9.435	0.956	A	2	A	R
44		T	1,4-Dinitrobenzene	168	9.520	0.965	Q	2	A	R
45		T	Dimethyl phthalate	163	9.574	0.970	A	2	A	R
46		T	1,3-Dinitrobenzene	168	9.600	0.973	A	2	A	R
47		T	2,6-Dinitrotoluene	165	9.632	0.976	A	2	A	R
48		T	1,2-Dinitrobenzene	168	9.691	0.982	A	2	A	R
49		T	Acenaphthylene	152	9.723	0.985	A	2	A	R
50		T	3-Nitroaniline	138	9.809	0.994	Q	2	A	R
51		T	Acenaphthene	153	9.900	1.003	A	2	A	R
52		T	2,4-Dinitrophenol	184	9.910	1.004	Q	2	A	R
53		T	4-Nitrophenol	139	9.964	1.010	Q	2	A	R

54	T	2,4-Dinitrotoluene	165	10.044	1.018	Q		2	A	R
55	T	Dibenzofuran	168	10.076	1.021	A		2	A	R
56	T	2,3,5,6-Tetrachlorophenol	232	10.156	1.029	Q		2	A	R
57	T	2,3,4,6-Tetrachlorophenol	232	10.199	1.034	Q		2	A	R
58	T	Diethyl phthalate	149	10.290	1.043	A		2	A	R
59	T	2,3,5-Trimethylnaphthalene	170	10.285	1.042	A		2	A	R
60	T	Fluorene	166	10.429	1.057	A		2	A	R
61	T	4-Chlorophenyl phenyl ether	204	10.419	1.056	A		2	A	R
62	T	4-Nitroaniline	138	10.429	1.057	A		2	A	R
63	T	4,6-Dinitro-2-methylphenol	198	10.461	1.060	Q		2	A	R
64	I	Phenanthrene-d10 (ISTD)	188	11.392	1.000	A		2	A	R
65	T	N-Nitrosodiphenylamine	169	10.536	0.925	A		2	A	R
66	T	Azobenzene (1,2-DPH)	77	10.579	0.929	A		2	A	R
67	S	2,4,6-Tribromophenol (Surr)	330	10.670	0.937	Q		2	A	R
68	T	4-Bromophenyl phenyl ether	248	10.916	0.958	A		2	A	R
69	T	Hexachlorobenzene	284	11.002	0.966	A		2	A	R
70	T	Pentachlorophenol (PCP)	266	11.194	0.983	Q		2	A	R
71	T	Phenanthrene	178	11.414	1.002	A		2	A	R
72	T	Anthracene	178	11.462	1.006	A		2	A	R
73	T	Carbazole	167	11.622	1.020	Q		2	A	R
74	T	Di-n-butyl phthalate	149	11.964	1.050	A		2	A	R
75	T	Fluoranthene	202	12.740	1.118	A		2	A	R
76	T	Benzidine	184	12.900	1.132	Q		2	A	R
77	T	Pyrene	202	13.056	1.146	A		2	A	R
78	I	Chrysene-d12 (ISTD)	240	15.404	1.000	A		2	A	R
79	S	Terphenyl-d14 (Surr)	244	13.270	0.861	A		2	A	R
80	T	Butyl benzyl phthalate	149	14.152	0.919	Q		2	A	R
81	T	Bis(2-ethylhexyl) adipate	129	14.339	0.931	A		2	A	R
82	T	3,3-Dichlorobenzidine	252	15.334	0.995	Q	1/a	2	A	R
83	T	Benz(a)anthracene	228	15.377	0.998	A		2	A	R
84	T	Chrysene	228	15.463	1.004	A		2	A	R
85	T	Bis(2-ethylhexyl) phthalate	149	15.542	1.009	A		2	A	R
86	I	Perylene-d12 (ISTD)	264	18.928	1.000	A		2	A	R
87	T	Di-n-octyl phthalate	149	17.222	0.910	Q		2	A	R
88	T	Benzo(b)fluoranthene	252	18.003	0.951	Q		2	A	R
89	T	Benzo(k)fluoranthene	252	18.067	0.954	Q		2	A	R
90	T	Benzo(b+k)fluoranthene	252	18.067	0.954	Q		2	A	R
91	T	Benzo(e)pyrene	252	18.666	0.986	A		2	A	R
92	T	Benzo(a)pyrene	252	18.784	0.992	Q		2	A	R
93	T	Perylene	252	18.987	1.003	A		2	A	B
94	I	Dibenz(a,h)Anthrcene-d14 (I...	292	21.335	1.000	A		1	A	B
95	T	Indeno(1,2,3-cd)pyrene	276	21.330	1.000	A		1	A	R
96	T	Dibenz(a,h)anthracene	278	21.400	1.003	A		2	A	R
97	T	Benzo(g,h,i)perylene	276	21.875	1.025	A		2	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

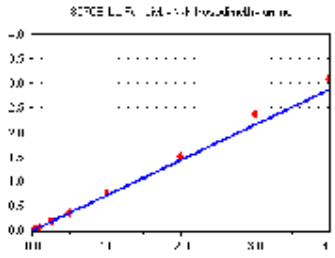
SV10_050120.M Mon May 04 13:20:42 2020

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

N-Nitrosodimethylamine

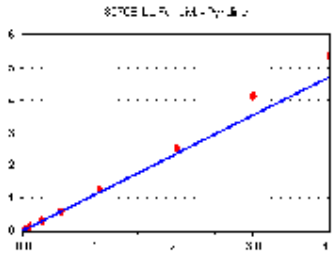


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1056	0.550	4.16
0E01048-CAL2	50	3161	0.640	4.16
0E01048-CAL3	100	6960	0.728	4.11
0E01048-CAL4	200	13019	0.718	4.12
0E01048-CAL5	500	34459	0.752	4.12
0E01048-CAL6	1000	66004	0.732	4.11
0E01048-CAL7	2000	134599	0.754	4.11
0E01048-CAL8	4000	262941	0.752	4.12
0E01048-CAL9	6000	393406	0.792	4.12
0E01048-CALA	8000	504946	0.774	4.13

AVE RF **0.719** RF RSD **10.02** AVE RT **4.13**

Pyridine

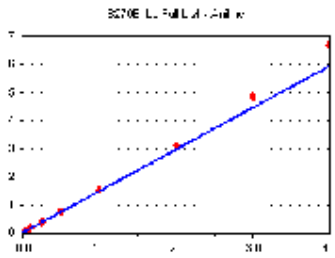


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1772~~	~~0.924~~	~~4.26~~
0E01048-CAL2	50	4118	0.833	4.23
0E01048-CAL3	100	9290	0.972	4.17
0E01048-CAL4	200	20881	1.152	4.17
0E01048-CAL5	500	56059	1.223	4.16
0E01048-CAL6	1000	106090	1.177	4.15
0E01048-CAL7	2000	226549	1.270	4.14
0E01048-CAL8	4000	442936	1.266	4.15
0E01048-CAL9	6000	679950	1.369	4.14
0E01048-CALA	8000	871278	1.335	4.15

AVE RF **1.177** RF RSD **14.75** AVE RT **4.16**

Aniline

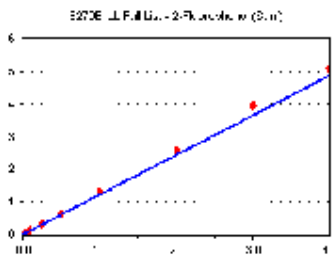


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2400	1.251	0.00
0E01048-CAL2	50	6810	1.378	6.49
0E01048-CAL3	100	13261	1.387	6.48
0E01048-CAL4	200	27397	1.512	6.48
0E01048-CAL5	500	69692	1.520	6.48
0E01048-CAL6	1000	134013	1.487	6.48
0E01048-CAL7	2000	268100	1.503	6.48
0E01048-CAL8	4000	545033	1.558	6.49
0E01048-CAL9	6000	804680	1.620	6.49
0E01048-CALA	8000	1093109	1.675	0.00

AVE RF **1.489** RF RSD **8.31** AVE RT **5.19**

2-Fluorophenol (Surr)



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1953	1.018	5.53
0E01048-CAL2	50	5510	1.115	5.54
0E01048-CAL3	100	10683	1.118	5.53
0E01048-CAL4	200	21141	1.166	5.53
0E01048-CAL5	500	58252	1.270	5.53
0E01048-CAL6	1000	113423	1.259	5.53
0E01048-CAL7	2000	234424	1.314	5.53
0E01048-CAL8	4000	452073	1.292	5.53
0E01048-CAL9	6000	655827	1.320	5.53
0E01048-CALA	8000	828011	1.269	5.53

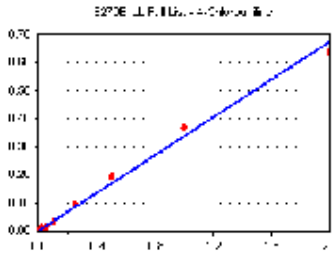
AVE RF **1.214** RF RSD **8.48** AVE RT **5.53**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

4-Chloroaniline

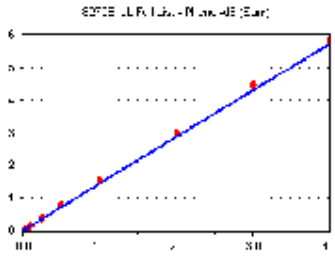


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1892	0.258	8.15
0E01048-CAL2	50	5581	0.311	8.15
0E01048-CAL3	100	11760	0.327	8.15
0E01048-CAL4	200	24483	0.353	8.15
0E01048-CAL5	500	64457	0.379	8.15
0E01048-CAL6	1000	129616	0.385	8.15
0E01048-CAL7	2000	238318	0.365	0.00
0E01048-CAL8	4000	406932	0.320	0.00
~~0E01048-CAL9~~	~~6000~~	~~557000~~	~~0.299~~	~~0.00~~
~~0E01048-CALA~~	~~8000~~	~~713100~~	~~0.293~~	~~0.00~~

AVE RF **0.337** RF RSD **12.44** AVE RT **6.11**

Phenol-d6 (Surr)

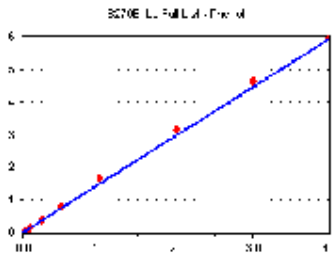


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2369	1.235	6.43
0E01048-CAL2	50	6261	1.267	6.43
0E01048-CAL3	100	12550	1.313	6.43
0E01048-CAL4	200	26007	1.435	6.43
0E01048-CAL5	500	69027	1.505	6.43
0E01048-CAL6	1000	138996	1.542	6.43
0E01048-CAL7	2000	278467	1.561	6.43
0E01048-CAL8	4000	522506	1.494	6.45
0E01048-CAL9	6000	739081	1.488	6.45
0E01048-CALA	8000	948776	1.454	6.46

AVE RF **1.429** RF RSD **8.14** AVE RT **6.44**

Phenol

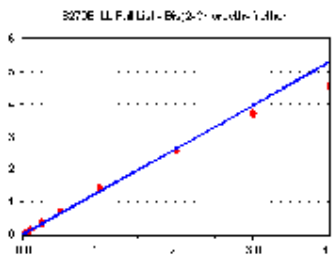


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2710	1.412	6.45
0E01048-CAL2	50	5865	1.187	6.45
0E01048-CAL3	100	12267	1.283	6.45
0E01048-CAL4	200	29567	1.631	6.45
0E01048-CAL5	500	69878	1.524	6.45
0E01048-CAL6	1000	138337	1.535	6.45
0E01048-CAL7	2000	295844	1.658	6.45
0E01048-CAL8	4000	551221	1.576	6.46
0E01048-CAL9	6000	767137	1.544	6.47
0E01048-CALA	8000	974066	1.493	6.47

AVE RF **1.484** RF RSD **10.10** AVE RT **6.45**

Bis(2-Chloroethyl) ether



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2449	1.276	6.54
0E01048-CAL2	50	6507	1.317	6.54
0E01048-CAL3	100	12128	1.269	6.54
0E01048-CAL4	200	24922	1.375	6.54
0E01048-CAL5	500	64951	1.417	6.54
0E01048-CAL6	1000	129066	1.432	6.54
0E01048-CAL7	2000	257343	1.442	6.54
0E01048-CAL8	4000	449460	1.285	6.55
0E01048-CAL9	6000	610903	1.230	6.55
0E01048-CALA	8000	743153	1.139	6.55

AVE RF **1.318** RF RSD **7.44** AVE RT **6.54**

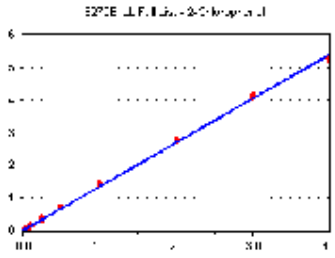
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

2-Chlorophenol

Curve Fit: **AVERAGE RF**

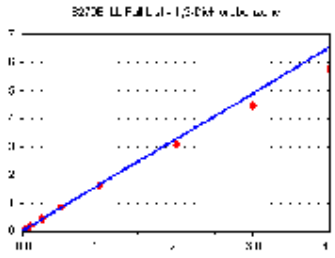


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2275	1.186	6.60
0E01048-CAL2	50	6059	1.226	6.61
0E01048-CAL3	100	12387	1.296	6.60
0E01048-CAL4	200	24400	1.346	6.60
0E01048-CAL5	500	66822	1.457	6.60
0E01048-CAL6	1000	130032	1.443	6.60
0E01048-CAL7	2000	256829	1.440	6.61
0E01048-CAL8	4000	484213	1.384	6.61
0E01048-CAL9	6000	680218	1.369	6.61
0E01048-CALA	8000	858273	1.315	6.61

AVE RF **1.346** RF RSD **6.83** AVE RT **6.60**

1,3-Dichlorobenzene

Curve Fit: **AVERAGE RF**

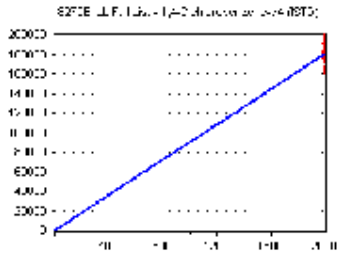


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3441	1.793	6.76
0E01048-CAL2	50	8367	1.693	6.76
0E01048-CAL3	100	16686	1.746	6.76
0E01048-CAL4	200	30392	1.677	6.76
0E01048-CAL5	500	78446	1.711	6.76
0E01048-CAL6	1000	148363	1.646	6.76
0E01048-CAL7	2000	286729	1.607	6.76
0E01048-CAL8	4000	535315	1.530	6.76
0E01048-CAL9	6000	741627	1.493	6.76
0E01048-CALA	8000	947173	1.452	6.76

AVE RF **1.635** RF RSD **6.88** AVE RT **6.76**

1,4-Dichlorobenzene-d4 (ISTD)

Curve Fit: **AVERAGE RF**

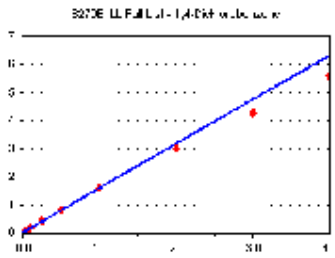


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	191864	95.932	6.81
0E01048-CAL2	2000	197701	98.850	6.81
0E01048-CAL3	2000	191183	95.591	6.80
0E01048-CAL4	2000	181235	90.618	6.81
0E01048-CAL5	2000	183403	91.701	6.81
0E01048-CAL6	2000	180245	90.123	6.81
0E01048-CAL7	2000	178407	89.204	6.81
0E01048-CAL8	2000	174907	87.454	6.81
0E01048-CAL9	2000	165574	82.787	6.81
0E01048-CALA	2000	163128	81.564	6.81

AVE RF **90.382** RF RSD **6.14** AVE RT **6.81**

1,4-Dichlorobenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3170	1.652	6.82
0E01048-CAL2	50	8455	1.711	6.82
0E01048-CAL3	100	16022	1.676	6.82
0E01048-CAL4	200	29528	1.629	6.82
0E01048-CAL5	500	76922	1.678	6.82
0E01048-CAL6	1000	142848	1.585	6.82
0E01048-CAL7	2000	284248	1.593	6.82
0E01048-CAL8	4000	520387	1.488	6.83
0E01048-CAL9	6000	708159	1.426	6.83
0E01048-CALA	8000	913373	1.400	6.83

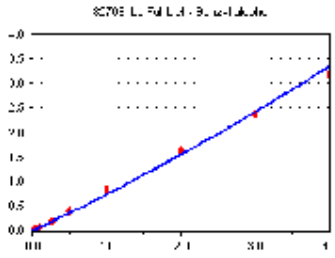
AVE RF **1.584** RF RSD **6.93** AVE RT **6.83**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Benzyl alcohol

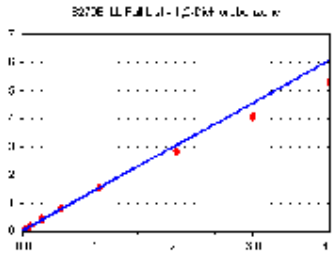


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	888	0.463	6.94
0E01048-CAL2	50	2430	0.492	6.94
0E01048-CAL3	100	5492	0.575	6.93
0E01048-CAL4	200	11440	0.631	6.94
0E01048-CAL5	500	33612	0.733	6.93
0E01048-CAL6	1000	71211	0.790	6.93
0E01048-CAL7	2000	148637	0.833	6.94
0E01048-CAL8	4000	285840	0.817	6.94
0E01048-CAL9	6000	393544	0.792	6.95
0E01048-CALA	8000	519355	0.796	6.96

AVE RF **0.692** RF RSD **20.31** AVE RT **6.94**

1,2-Dichlorobenzene

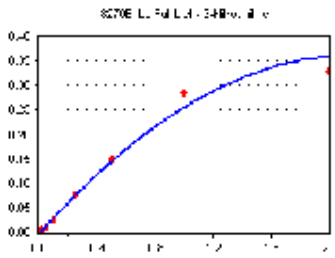


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2766	1.442	6.98
0E01048-CAL2	50	7982	1.615	6.98
0E01048-CAL3	100	15557	1.627	6.97
0E01048-CAL4	200	30294	1.672	6.98
0E01048-CAL5	500	76724	1.673	6.98
0E01048-CAL6	1000	142058	1.576	6.98
0E01048-CAL7	2000	273037	1.530	6.98
0E01048-CAL8	4000	496140	1.418	6.98
0E01048-CAL9	6000	679700	1.368	6.99
0E01048-CALA	8000	864319	1.325	6.99

AVE RF **1.525** RF RSD **8.40** AVE RT **6.98**

3-Nitroaniline

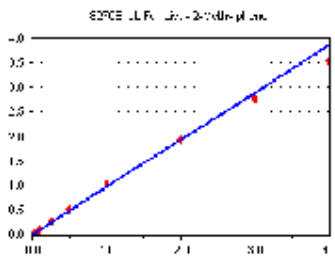


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~409~~	~~0.114~~	~~9.81~~
0E01048-CAL2	50	1541	0.181	9.81
0E01048-CAL3	100	4153	0.234	9.81
0E01048-CAL4	200	9251	0.266	9.80
0E01048-CAL5	500	25545	0.305	9.80
0E01048-CAL6	1000	50804	0.300	9.81
0E01048-CAL7	2000	95947	0.285	0.00
0E01048-CAL8	4000	105482	0.164	0.00
~~0E01048-CAL9~~	~~6000~~	~~134645~~	~~0.138~~	~~0.00~~
~~0E01048-CALA~~	~~8000~~	~~210733~~	~~0.168~~	~~0.00~~

AVE RF **0.248** RF RSD **22.96** AVE RT **7.00**

2-Methylphenol



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1790	0.933	7.04
0E01048-CAL2	50	4132	0.836	7.04
0E01048-CAL3	100	9064	0.948	7.04
0E01048-CAL4	200	18182	1.003	7.04
0E01048-CAL5	500	48344	1.054	7.04
0E01048-CAL6	1000	95275	1.057	7.04
0E01048-CAL7	2000	186846	1.047	7.04
0E01048-CAL8	4000	341774	0.977	7.04
0E01048-CAL9	6000	459315	0.925	7.05
0E01048-CALA	8000	577925	0.886	7.05

AVE RF **0.967** RF RSD **7.76** AVE RT **7.04**

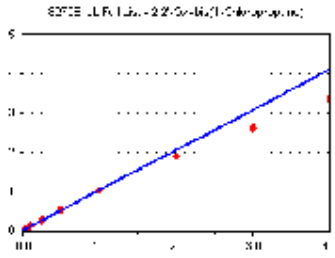
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

2,2'-Oxybis(1-Chloropropane)

Curve Fit: **AVERAGE RF**

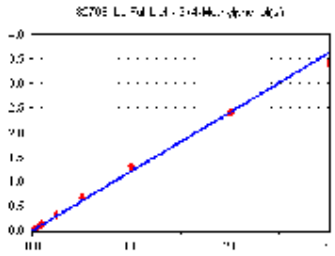


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1973	1.028	7.07
0E01048-CAL2	50	5484	1.110	7.07
0E01048-CAL3	100	10763	1.126	7.07
0E01048-CAL4	200	20415	1.126	7.07
0E01048-CAL5	500	51146	1.115	7.07
0E01048-CAL6	1000	96994	1.076	7.07
0E01048-CAL7	2000	183240	1.027	7.07
0E01048-CAL8	4000	333090	0.952	7.07
0E01048-CAL9	6000	433983	0.874	7.08
0E01048-CALA	8000	548150	0.840	7.08

AVE RF **1.028** RF RSD **10.30** AVE RT **7.07**

3+4-Methylphenol(s)

Curve Fit: **AVERAGE RF**

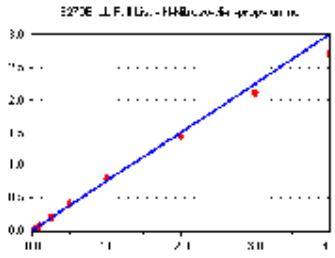


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1938	1.010	7.19
0E01048-CAL2	50	5177	1.047	7.19
0E01048-CAL3	100	11824	1.237	7.19
0E01048-CAL4	200	23011	1.270	7.19
0E01048-CAL5	500	61306	1.337	7.19
0E01048-CAL6	1000	121441	1.348	7.19
0E01048-CAL7	2000	235635	1.321	7.19
0E01048-CAL8	4000	419273	1.199	7.20
0E01048-CAL9	6000	564140	1.136	7.21
~~0E01048-CALA~~	~~8000~~	~~709231~~	~~1.087~~	~~7.22~~

AVE RF **1.212** RF RSD **10.26** AVE RT **7.19**

N-Nitroso-di-n-propylamine

Curve Fit: **AVERAGE RF**

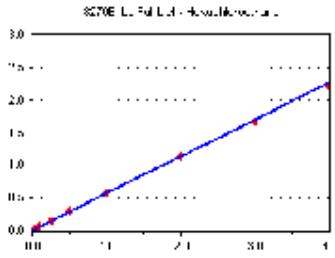


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1290	0.672	7.20
0E01048-CAL2	50	3408	0.690	7.20
0E01048-CAL3	100	7313	0.765	7.19
0E01048-CAL4	200	15112	0.834	7.19
0E01048-CAL5	500	37629	0.821	7.19
0E01048-CAL6	1000	73246	0.813	7.20
0E01048-CAL7	2000	142353	0.798	7.20
0E01048-CAL8	4000	253448	0.725	7.21
0E01048-CAL9	6000	347925	0.700	7.22
0E01048-CALA	8000	442984	0.679	7.23

AVE RF **0.750** RF RSD **8.48** AVE RT **7.20**

Hexachloroethane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	928	0.484	7.32
0E01048-CAL2	50	2852	0.577	7.32
0E01048-CAL3	100	5625	0.588	7.32
0E01048-CAL4	200	10331	0.570	7.32
0E01048-CAL5	500	27570	0.601	7.32
0E01048-CAL6	1000	52010	0.577	7.32
0E01048-CAL7	2000	105262	0.590	7.32
0E01048-CAL8	4000	197978	0.566	7.32
0E01048-CAL9	6000	275750	0.555	7.32
0E01048-CALA	8000	359667	0.551	7.32

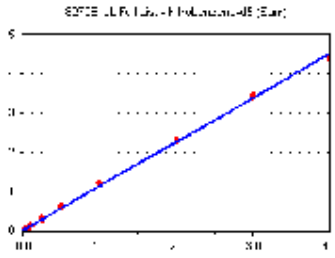
AVE RF **0.566** RF RSD **5.80** AVE RT **7.32**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Nitrobenzene-d5 (Surr)

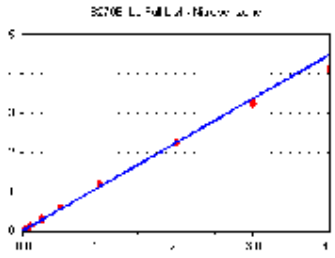


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1932	1.007	7.35
0E01048-CAL2	50	4906	0.993	7.35
0E01048-CAL3	100	10384	1.086	7.35
0E01048-CAL4	200	21119	1.165	7.35
0E01048-CAL5	500	54703	1.193	7.35
0E01048-CAL6	1000	110753	1.229	7.35
0E01048-CAL7	2000	215838	1.210	7.35
0E01048-CAL8	4000	401506	1.148	7.36
0E01048-CAL9	6000	567191	1.142	7.37
0E01048-CALA	8000	719111	1.102	7.37

AVE RF **1.127** RF RSD **7.15** AVE RT **7.36**

Nitrobenzene

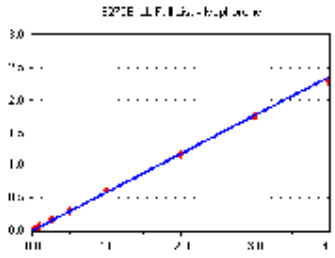


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1961	1.022	7.37
0E01048-CAL2	50	5092	1.030	7.37
0E01048-CAL3	100	11151	1.167	7.37
0E01048-CAL4	200	20957	1.156	7.37
0E01048-CAL5	500	56770	1.238	7.37
0E01048-CAL6	1000	106757	1.185	7.37
0E01048-CAL7	2000	211732	1.187	7.38
0E01048-CAL8	4000	390099	1.115	7.38
0E01048-CAL9	6000	538665	1.084	7.39
0E01048-CALA	8000	675628	1.035	7.39

AVE RF **1.122** RF RSD **6.78** AVE RT **7.37**

Isophorone

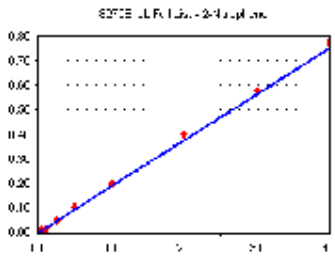


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3772	0.515	7.61
0E01048-CAL2	50	9735	0.543	7.61
0E01048-CAL3	100	21958	0.611	7.61
0E01048-CAL4	200	42630	0.615	7.61
0E01048-CAL5	500	106164	0.624	7.61
0E01048-CAL6	1000	207129	0.615	7.61
0E01048-CAL7	2000	400253	0.614	7.61
0E01048-CAL8	4000	745397	0.586	7.62
0E01048-CAL9	6000	1085451	0.582	7.63
0E01048-CALA	8000	1387142	0.571	7.64

AVE RF **0.588** RF RSD **6.11** AVE RT **7.61**

2-Nitrophenol



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~743~~	~~0.102~~	~~7.70~~
~~0E01048-CAL2~~	~~50~~	~~1960~~	~~0.109~~	~~7.70~~
0E01048-CAL3	100	5456	0.152	7.69
0E01048-CAL4	200	11238	0.162	7.69
0E01048-CAL5	500	33472	0.197	7.69
0E01048-CAL6	1000	70564	0.210	7.69
0E01048-CAL7	2000	130953	0.201	7.70
0E01048-CAL8	4000	254617	0.200	7.70
0E01048-CAL9	6000	359445	0.193	7.70
0E01048-CALA	8000	470113	0.193	7.70

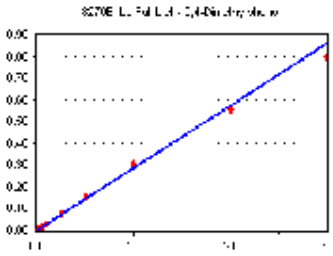
AVE RF **0.188** RF RSD **10.78** AVE RT **7.70**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

2,4-Dimethylphenol

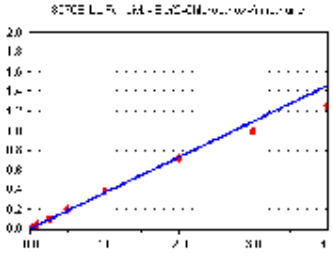


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1501~~	~~0.205~~	~~7.72~~
0E01048-CAL2	50	4417	0.246	7.72
0E01048-CAL3	100	9568	0.266	7.72
0E01048-CAL4	200	20813	0.300	7.72
0E01048-CAL5	500	53592	0.315	7.72
0E01048-CAL6	1000	106366	0.316	7.72
0E01048-CAL7	2000	197821	0.303	7.73
0E01048-CAL8	4000	351489	0.277	7.73
0E01048-CAL9	6000	496307	0.266	7.74
~~0E01048-CALA~~	~~8000~~	~~624108~~	~~0.257~~	~~7.74~~

AVE RF **0.286** RF RSD **9.05** AVE RT **7.73**

Bis(2-Chloroethoxy) methane

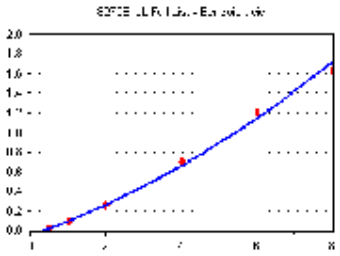


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2531	0.346	7.81
0E01048-CAL2	50	6717	0.375	7.81
0E01048-CAL3	100	13856	0.385	7.81
0E01048-CAL4	200	26612	0.384	7.81
0E01048-CAL5	500	67001	0.394	7.81
0E01048-CAL6	1000	128175	0.381	7.81
0E01048-CAL7	2000	249308	0.382	7.82
0E01048-CAL8	4000	453427	0.357	7.83
0E01048-CAL9	6000	615100	0.330	7.83
0E01048-CALA	8000	762034	0.314	7.83

AVE RF **0.365** RF RSD **7.40** AVE RT **7.82**

Benzoic acid

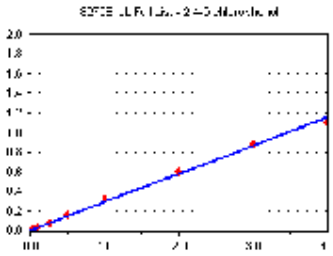


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~40~~	~~423~~	~~2.890~~	~~7.92~~
~~0E01048-CAL2~~	~~100~~	~~180~~	~~5.019~~	~~7.73~~
~~0E01048-CAL3~~	~~200~~	~~469~~	~~6.523~~	~~7.76~~
~~0E01048-CAL4~~	~~400~~	~~1715~~	~~1.238~~	~~7.76~~
0E01048-CAL5	1000	14918	4.382	7.78
0E01048-CAL6	2000	56683	0.084	7.81
0E01048-CAL7	4000	167185	0.128	7.84
0E01048-CAL8	8000	443484	0.174	7.89
0E01048-CAL9	12000	754829	0.202	7.92
0E01048-CALA	16000	992195	0.204	7.93

AVE RF **0.140** RF RSD **47.21** AVE RT **7.86**

2,4-Dichlorophenol



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1526~~	~~0.208~~	~~7.93~~
0E01048-CAL2	50	4099	0.229	7.93
0E01048-CAL3	100	9523	0.265	7.93
0E01048-CAL4	200	19883	0.287	7.93
0E01048-CAL5	500	53024	0.311	7.93
0E01048-CAL6	1000	105774	0.314	7.93
0E01048-CAL7	2000	210329	0.323	7.94
0E01048-CAL8	4000	384242	0.302	7.94
0E01048-CAL9	6000	541260	0.290	7.94
0E01048-CALA	8000	670509	0.276	7.95

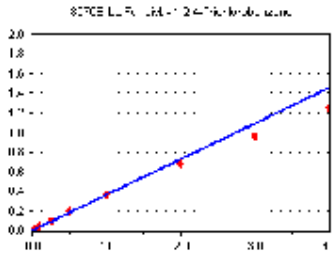
AVE RF **0.289** RF RSD **10.14** AVE RT **7.94**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

1,2,4-Trichlorobenzene

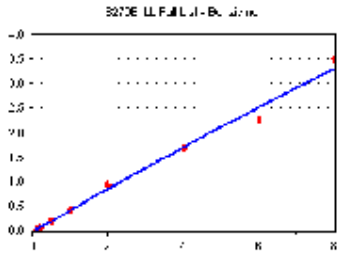


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2793	0.382	8.02
0E01048-CAL2	50	6705	0.374	8.02
0E01048-CAL3	100	13851	0.385	8.02
0E01048-CAL4	200	27062	0.391	8.02
0E01048-CAL5	500	67284	0.395	8.02
0E01048-CAL6	1000	128491	0.382	8.02
0E01048-CAL7	2000	239774	0.368	8.02
0E01048-CAL8	4000	435878	0.343	8.03
0E01048-CAL9	6000	598290	0.321	8.03
0E01048-CALA	8000	760344	0.313	8.03

AVE RF **0.365** RF RSD **8.05** AVE RT **8.02**

Benzidine

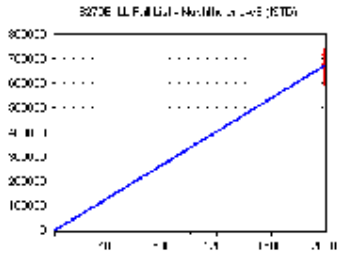


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~40~~	~~1586~~	~~0.132~~	~~12.90~~
~~0E01048-CAL2~~	~~100~~	~~3900~~	~~0.136~~	~~12.90~~
0E01048-CAL3	200	10676	0.165	12.90
0E01048-CAL4	400	32317	0.254	12.90
0E01048-CAL5	1000	122263	0.388	12.90
0E01048-CAL6	2000	273104	0.425	12.90
0E01048-CAL7	4000	596002	0.463	12.92
0E01048-CAL8	8000	1057265	0.422	0.00
0E01048-CAL9	12000	1394496	0.377	0.00
0E01048-CALA	16000	2171552	0.439	0.00

AVE RF **0.367** RF RSD **28.14** AVE RT **8.06**

Naphthalene-d8 (ISTD)

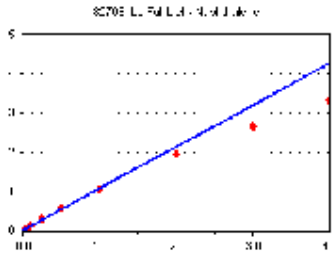


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	731955	365.978	8.08
0E01048-CAL2	2000	717228	358.614	8.08
0E01048-CAL3	2000	719013	359.507	8.08
0E01048-CAL4	2000	692848	346.424	8.08
0E01048-CAL5	2000	680915	340.458	8.08
0E01048-CAL6	2000	673130	336.565	8.08
0E01048-CAL7	2000	652077	326.038	8.08
0E01048-CAL8	2000	635505	317.753	8.09
0E01048-CAL9	2000	621657	310.828	8.09
0E01048-CALA	2000	607439	303.720	8.09

AVE RF **336.588** RF RSD **6.41** AVE RT **8.08**

Naphthalene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	8211	1.122	8.10
0E01048-CAL2	50	21366	1.192	8.10
0E01048-CAL3	100	41691	1.160	8.10
0E01048-CAL4	200	81565	1.177	8.10
0E01048-CAL5	500	198240	1.165	8.10
0E01048-CAL6	1000	377684	1.122	8.10
0E01048-CAL7	2000	693722	1.064	8.10
0E01048-CAL8	4000	1228640	0.967	8.11
0E01048-CAL9	6000	1645822	0.882	8.11
0E01048-CALA	8000	2025811	0.834	8.11

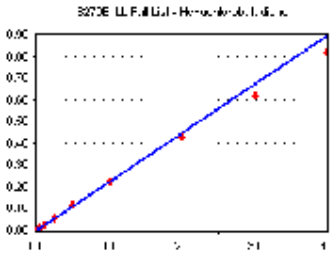
AVE RF **1.068** RF RSD **12.10** AVE RT **8.11**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Hexachlorobutadiene

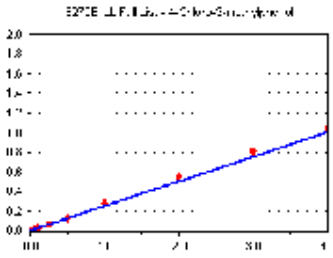


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1579	0.216	8.23
0E01048-CAL2	50	4330	0.241	8.23
0E01048-CAL3	100	8263	0.230	8.23
0E01048-CAL4	200	16461	0.238	8.23
0E01048-CAL5	500	40832	0.240	8.23
0E01048-CAL6	1000	77201	0.229	8.23
0E01048-CAL7	2000	146383	0.224	8.23
0E01048-CAL8	4000	270996	0.213	8.24
0E01048-CAL9	6000	385170	0.207	8.24
0E01048-CALA	8000	495957	0.204	8.24

AVE RF **0.224** RF RSD **6.11** AVE RT **8.23**

4-Chloro-3-methylphenol

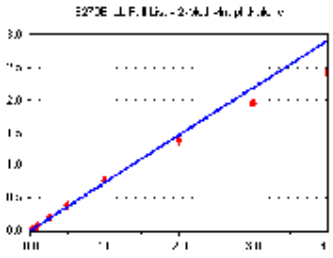


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1075~~	~~0.147~~	~~8.63~~
0E01048-CAL2	50	3304	0.184	8.63
0E01048-CAL3	100	7712	0.215	8.63
0E01048-CAL4	200	16620	0.240	8.63
0E01048-CAL5	500	45413	0.267	8.62
0E01048-CAL6	1000	90591	0.269	8.63
0E01048-CAL7	2000	184384	0.283	8.63
0E01048-CAL8	4000	351606	0.277	8.63
0E01048-CAL9	6000	501798	0.269	8.63
0E01048-CALA	8000	629786	0.259	8.64

AVE RF **0.251** RF RSD **13.00** AVE RT **8.63**

2-Methylnaphthalene

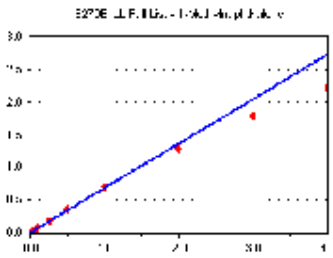


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4968	0.679	8.80
0E01048-CAL2	50	13555	0.756	8.80
0E01048-CAL3	100	28255	0.786	8.80
0E01048-CAL4	200	55698	0.804	8.80
0E01048-CAL5	500	132345	0.777	8.80
0E01048-CAL6	1000	257721	0.766	8.80
0E01048-CAL7	2000	493469	0.757	8.80
0E01048-CAL8	4000	877955	0.691	8.81
0E01048-CAL9	6000	1210517	0.649	8.81
0E01048-CALA	8000	1471994	0.606	8.81

AVE RF **0.727** RF RSD **9.12** AVE RT **8.80**

1-Methylnaphthalene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5104	0.697	8.91
0E01048-CAL2	50	12870	0.718	8.91
0E01048-CAL3	100	27373	0.761	8.91
0E01048-CAL4	200	51095	0.737	8.90
0E01048-CAL5	500	123884	0.728	8.91
0E01048-CAL6	1000	237648	0.706	8.91
0E01048-CAL7	2000	451130	0.692	8.91
0E01048-CAL8	4000	809740	0.637	8.91
0E01048-CAL9	6000	1107064	0.594	8.91
0E01048-CALA	8000	1344642	0.553	8.91

AVE RF **0.682** RF RSD **9.77** AVE RT **8.91**

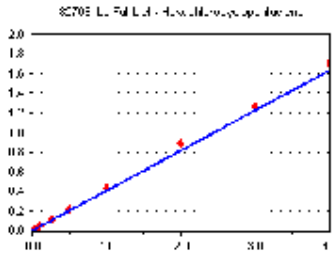
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Hexachlorocyclopentadiene

Curve Fit: **AVERAGE RF**

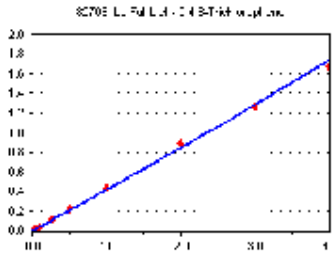


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1207	0.337	8.97
0E01048-CAL2	50	3097	0.363	8.97
0E01048-CAL3	100	6851	0.385	8.97
0E01048-CAL4	200	13997	0.402	8.97
0E01048-CAL5	500	36462	0.436	8.97
0E01048-CAL6	1000	73630	0.434	8.97
0E01048-CAL7	2000	147214	0.437	8.98
0E01048-CAL8	4000	284487	0.443	8.98
0E01048-CAL9	6000	412390	0.422	8.98
0E01048-CALA	8000	536854	0.428	8.98

AVE RF **0.409** RF RSD **8.79** AVE RT **8.97**

2,4,6-Trichlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

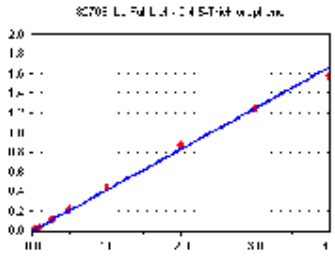


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	759	0.212	9.09
0E01048-CAL2	50	2246	0.263	9.09
0E01048-CAL3	100	6196	0.348	9.08
0E01048-CAL4	200	12664	0.364	9.08
0E01048-CAL5	500	36271	0.433	9.08
0E01048-CAL6	1000	75420	0.445	9.08
0E01048-CAL7	2000	145792	0.433	9.09
0E01048-CAL8	4000	286551	0.446	9.09
0E01048-CAL9	6000	411313	0.421	9.09
0E01048-CALA	8000	526956	0.420	9.09

AVE RF **0.379** RF RSD **21.65** AVE RT **9.09**

2,4,5-Trichlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

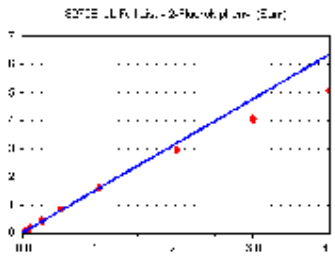


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	819	0.229	9.12
0E01048-CAL2	50	2298	0.269	9.12
0E01048-CAL3	100	5978	0.336	9.12
0E01048-CAL4	200	12930	0.372	9.12
0E01048-CAL5	500	36303	0.434	9.12
0E01048-CAL6	1000	73502	0.433	9.12
0E01048-CAL7	2000	150181	0.446	9.12
0E01048-CAL8	4000	281418	0.438	9.12
0E01048-CAL9	6000	405084	0.414	9.13
0E01048-CALA	8000	495222	0.395	9.13

AVE RF **0.377** RF RSD **20.14** AVE RT **9.12**

2-Fluorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5848	1.635	9.17
0E01048-CAL2	50	14529	1.703	9.17
0E01048-CAL3	100	31404	1.766	9.17
0E01048-CAL4	200	60557	1.741	9.17
0E01048-CAL5	500	145387	1.737	9.17
0E01048-CAL6	1000	281689	1.661	9.17
0E01048-CAL7	2000	535435	1.591	9.17
0E01048-CAL8	4000	947130	1.474	9.17
0E01048-CAL9	6000	1323459	1.353	9.18
0E01048-CALA	8000	1596212	1.272	9.18

AVE RF **1.593** RF RSD **10.79** AVE RT **9.17**

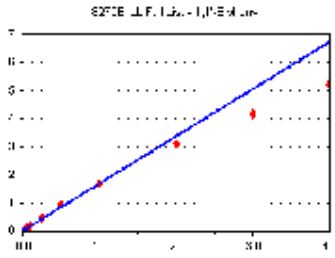
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

1,1'-Biphenyl

Curve Fit: **AVERAGE RF**

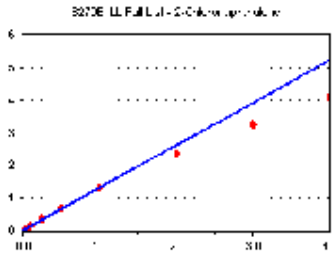


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6111	1.708	9.27
0E01048-CAL2	50	15507	1.818	9.27
0E01048-CAL3	100	33925	1.908	9.27
0E01048-CAL4	200	64137	1.844	9.27
0E01048-CAL5	500	153742	1.837	9.27
0E01048-CAL6	1000	301856	1.780	9.27
0E01048-CAL7	2000	564946	1.678	9.27
0E01048-CAL8	4000	996176	1.550	9.28
0E01048-CAL9	6000	1359592	1.390	9.28
0E01048-CALA	8000	1633908	1.302	9.29

AVE RF **1.682** RF RSD **12.18** AVE RT **9.28**

2-Chloronaphthalene

Curve Fit: **AVERAGE RF**

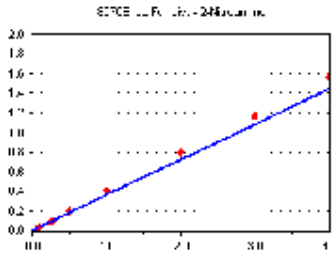


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4995	1.396	9.30
0E01048-CAL2	50	11987	1.405	9.30
0E01048-CAL3	100	26139	1.470	9.30
0E01048-CAL4	200	50017	1.438	9.30
0E01048-CAL5	500	117743	1.407	9.30
0E01048-CAL6	1000	230860	1.361	9.30
0E01048-CAL7	2000	434449	1.291	9.30
0E01048-CAL8	4000	765622	1.191	9.31
0E01048-CAL9	6000	1059335	1.083	9.31
0E01048-CALA	8000	1278066	1.018	9.31

AVE RF **1.306** RF RSD **12.01** AVE RT **9.30**

2-Nitroaniline

Curve Fit: **AVERAGE RF**

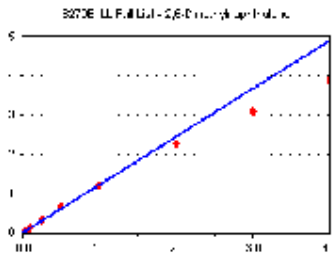


Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~581~~	~~0.162~~	~~9.39~~
~~0E01048-CAL2~~	~~50~~	~~1497~~	~~0.176~~	~~9.39~~
0E01048-CAL3	100	4785	0.269	9.39
0E01048-CAL4	200	10206	0.293	9.39
0E01048-CAL5	500	30298	0.362	9.39
0E01048-CAL6	1000	65577	0.387	9.39
0E01048-CAL7	2000	136747	0.406	9.40
0E01048-CAL8	4000	258700	0.403	9.40
0E01048-CAL9	6000	382203	0.391	9.41
0E01048-CALA	8000	490776	0.391	9.41

AVE RF **0.363** RF RSD **14.44** AVE RT **9.40**

2,6-Dimethylnaphthalene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4365	1.220	9.43
0E01048-CAL2	50	11180	1.311	9.44
0E01048-CAL3	100	23962	1.348	9.44
0E01048-CAL4	200	47338	1.361	9.43
0E01048-CAL5	500	111733	1.335	9.44
0E01048-CAL6	1000	218308	1.287	9.44
0E01048-CAL7	2000	412298	1.225	9.44
0E01048-CAL8	4000	728975	1.134	9.44
0E01048-CAL9	6000	1003034	1.026	9.45
0E01048-CALA	8000	1220442	0.972	9.45

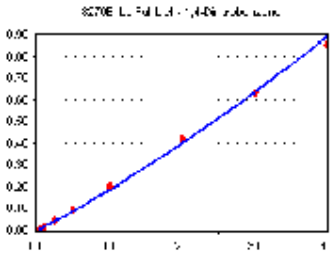
AVE RF **1.222** RF RSD **11.20** AVE RT **9.44**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

1,4-Dinitrobenzene

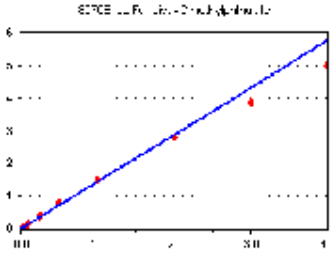


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~221~~	~~6.179~~	~~9.52~~
0E01048-CAL2	50	660	7.738	9.52
0E01048-CAL3	100	1916	0.108	9.52
0E01048-CAL4	200	4549	0.131	9.52
0E01048-CAL5	500	13891	0.166	9.52
0E01048-CAL6	1000	31602	0.186	9.52
0E01048-CAL7	2000	69428	0.206	9.53
0E01048-CAL8	4000	136292	0.212	9.53
0E01048-CAL9	6000	205994	0.211	9.54
0E01048-CALA	8000	267475	0.213	9.54

AVE RF **0.168** RF RSD **30.40** AVE RT **9.52**

Dimethylphthalate

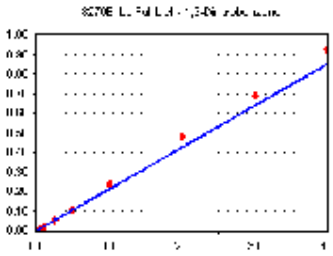


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4603	1.287	9.57
0E01048-CAL2	50	12248	1.436	9.57
0E01048-CAL3	100	27818	1.565	9.57
0E01048-CAL4	200	55476	1.595	9.57
0E01048-CAL5	500	132075	1.578	9.57
0E01048-CAL6	1000	259401	1.529	9.57
0E01048-CAL7	2000	499048	1.483	9.58
0E01048-CAL8	4000	894138	1.391	9.58
0E01048-CAL9	6000	1257398	1.286	9.60
0E01048-CALA	8000	1572205	1.253	9.60

AVE RF **1.440** RF RSD **9.06** AVE RT **9.58**

1,3-Dinitrobenzene

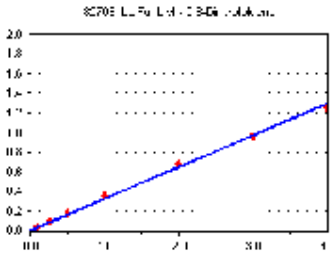


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~296~~	~~8.275~~	~~9.61~~
~~0E01048-CAL2~~	~~50~~	~~893~~	~~0.105~~	~~9.60~~
0E01048-CAL3	100	2780	0.156	9.60
0E01048-CAL4	200	5993	0.172	9.60
0E01048-CAL5	500	18060	0.216	9.60
0E01048-CAL6	1000	37452	0.221	9.60
0E01048-CAL7	2000	79439	0.236	9.61
0E01048-CAL8	4000	154967	0.241	9.62
0E01048-CAL9	6000	223699	0.229	9.62
0E01048-CALA	8000	290499	0.231	9.63

AVE RF **0.213** RF RSD **14.69** AVE RT **9.61**

2,6-Dinitrotoluene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~551~~	~~0.154~~	~~9.63~~
~~0E01048-CAL2~~	~~50~~	~~1733~~	~~0.203~~	~~9.63~~
0E01048-CAL3	100	4956	0.279	9.63
0E01048-CAL4	200	10708	0.308	9.63
0E01048-CAL5	500	28845	0.345	9.63
0E01048-CAL6	1000	57671	0.340	9.63
0E01048-CAL7	2000	118828	0.353	9.64
0E01048-CAL8	4000	219135	0.341	9.64
0E01048-CAL9	6000	313636	0.321	9.65
0E01048-CALA	8000	393388	0.313	9.65

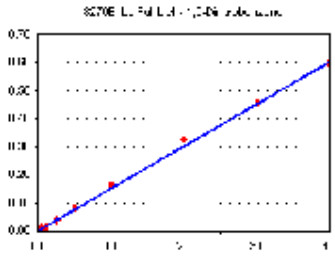
AVE RF **0.325** RF RSD **7.57** AVE RT **9.64**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

1,2-Dinitrobenzene

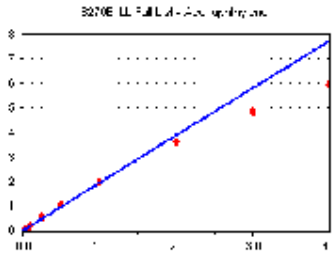


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~228~~	~~6.374~~	~~9.69~~
~~0E01048-CAL2~~	~~50~~	~~779~~	~~9.133~~	~~9.69~~
0E01048-CAL3	100	2197	0.124	9.69
0E01048-CAL4	200	4556	0.131	9.69
0E01048-CAL5	500	13224	0.158	9.69
0E01048-CAL6	1000	27052	0.159	9.69
0E01048-CAL7	2000	55084	0.164	9.70
0E01048-CAL8	4000	104188	0.162	9.71
0E01048-CAL9	6000	149729	0.153	9.72
0E01048-CALA	8000	187132	0.149	9.72

AVE RF **0.150** RF RSD **9.95** AVE RT **9.70**

Acenaphthylene

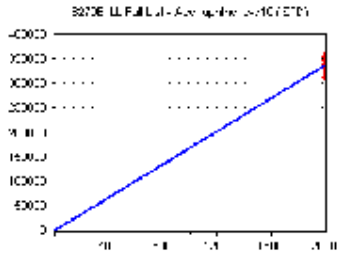


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6575	1.838	9.72
0E01048-CAL2	50	17439	2.044	9.72
0E01048-CAL3	100	38044	2.140	9.72
0E01048-CAL4	200	75817	2.180	9.72
0E01048-CAL5	500	183911	2.197	9.72
0E01048-CAL6	1000	352233	2.077	9.72
0E01048-CAL7	2000	673465	2.001	9.73
0E01048-CAL8	4000	1161710	1.808	9.73
0E01048-CAL9	6000	1585324	1.621	9.73
0E01048-CALA	8000	1874093	1.493	9.73

AVE RF **1.940** RF RSD **12.47** AVE RT **9.73**

Acenaphthene-d10 (ISTD)

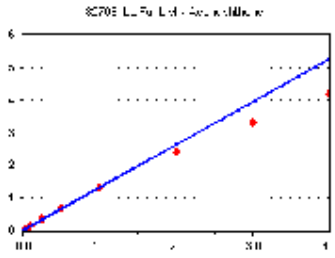


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	357685	178.843	9.87
0E01048-CAL2	2000	341194	170.597	9.87
0E01048-CAL3	2000	355600	177.800	9.87
0E01048-CAL4	2000	347809	173.905	9.87
0E01048-CAL5	2000	334768	167.384	9.87
0E01048-CAL6	2000	339213	169.607	9.87
0E01048-CAL7	2000	336578	168.289	9.87
0E01048-CAL8	2000	321338	160.669	9.87
0E01048-CAL9	2000	325974	162.987	9.87
0E01048-CALA	2000	313797	156.899	9.88

AVE RF **168.698** RF RSD **4.22** AVE RT **9.87**

Acenaphthene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4764	1.332	9.90
0E01048-CAL2	50	12562	1.473	9.90
0E01048-CAL3	100	25073	1.410	9.90
0E01048-CAL4	200	50397	1.449	9.90
0E01048-CAL5	500	118657	1.418	9.90
0E01048-CAL6	1000	231769	1.367	9.90
0E01048-CAL7	2000	440129	1.308	9.91
0E01048-CAL8	4000	767014	1.193	9.91
0E01048-CAL9	6000	1076553	1.101	9.91
0E01048-CALA	8000	1314111	1.047	9.92

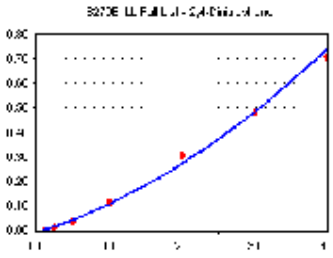
AVE RF **1.310** RF RSD **11.31** AVE RT **9.90**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

2,4-Dinitrophenol

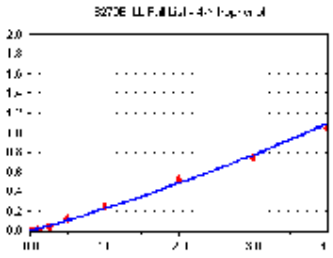


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01048-CAL2~~	~~50~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01048-CAL3~~	~~100~~	~~186~~	~~1.046~~	~~9.92~~
0E01048-CAL4	200	590	1.696	9.91
0E01048-CAL5	500	4171	0.050	9.91
0E01048-CAL6	1000	13736	8.099	9.91
0E01048-CAL7	2000	39777	0.118	9.92
0E01048-CAL8	4000	98071	0.153	9.92
0E01048-CAL9	6000	158485	0.162	9.93
0E01048-CALA	8000	222605	0.177	9.93

AVE RF **0.108** RF RSD **56.21** AVE RT **9.92**

4-Nitrophenol

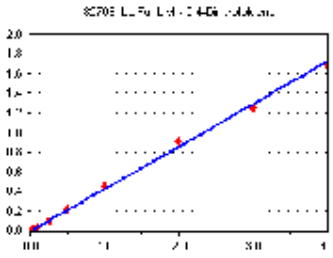


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~183~~	~~5.116~~	~~9.97~~
0E01048-CAL2	50	426	4.994	9.96
0E01048-CAL3	100	1906	0.107	9.96
0E01048-CAL4	200	4625	0.133	9.96
0E01048-CAL5	500	16246	0.194	9.96
0E01048-CAL6	1000	38821	0.229	9.96
0E01048-CAL7	2000	83836	0.249	9.97
0E01048-CAL8	4000	167465	0.261	9.98
0E01048-CAL9	6000	244656	0.250	9.99
0E01048-CALA	8000	328927	0.262	10.00

AVE RF **0.193** RF RSD **40.38** AVE RT **9.97**

2,4-Dinitrotoluene

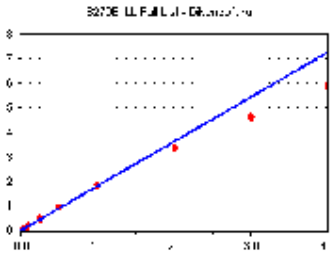


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~603~~	~~0.169~~	~~10.04~~
0E01048-CAL2	50	1933	0.227	10.04
0E01048-CAL3	100	4977	0.280	10.04
0E01048-CAL4	200	11730	0.337	10.04
0E01048-CAL5	500	34026	0.407	10.04
0E01048-CAL6	1000	72794	0.429	10.04
0E01048-CAL7	2000	152328	0.453	10.05
0E01048-CAL8	4000	290214	0.452	10.06
0E01048-CAL9	6000	409733	0.419	10.07
0E01048-CALA	8000	528085	0.421	10.07

AVE RF **0.380** RF RSD **21.21** AVE RT **10.05**

Dibenzofuran



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6693	1.871	10.08
0E01048-CAL2	50	15584	1.827	10.08
0E01048-CAL3	100	35418	1.992	10.08
0E01048-CAL4	200	69462	1.997	10.08
0E01048-CAL5	500	164955	1.971	10.08
0E01048-CAL6	1000	321608	1.896	10.08
0E01048-CAL7	2000	619598	1.841	10.08
0E01048-CAL8	4000	1089674	1.696	10.08
0E01048-CAL9	6000	1509514	1.544	10.09
0E01048-CALA	8000	1853746	1.477	10.09

AVE RF **1.811** RF RSD **10.11** AVE RT **10.08**

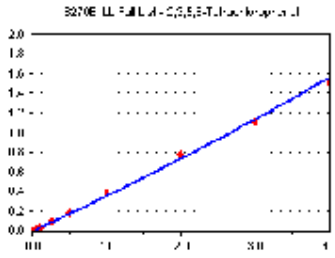
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

2,3,5,6-Tetrachlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

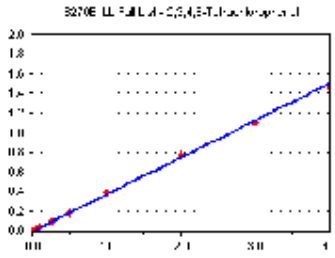


Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~293~~	~~8.192~~	~~10.16~~
0E01048-CAL2	50	1097	0.129	10.16
0E01048-CAL3	100	3387	0.190	10.16
0E01048-CAL4	200	8629	0.248	10.15
0E01048-CAL5	500	27343	0.327	10.16
0E01048-CAL6	1000	61190	0.361	10.16
0E01048-CAL7	2000	128576	0.382	10.16
0E01048-CAL8	4000	249569	0.388	10.16
0E01048-CAL9	6000	362239	0.370	10.16
0E01048-CALA	8000	473333	0.377	10.17

AVE RF **0.308** RF RSD **31.08** AVE RT **10.16**

2,3,4,6-Tetrachlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

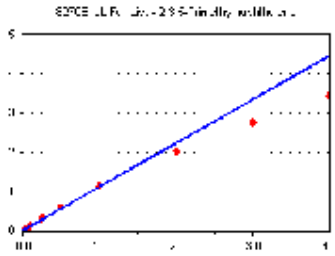


Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~383~~	~~0.107~~	~~10.21~~
0E01048-CAL2	50	1453	0.170	10.20
0E01048-CAL3	100	4311	0.242	10.20
0E01048-CAL4	200	10787	0.310	10.20
0E01048-CAL5	500	29826	0.356	10.20
0E01048-CAL6	1000	62656	0.369	10.20
0E01048-CAL7	2000	129498	0.385	10.21
0E01048-CAL8	4000	247870	0.386	10.21
0E01048-CAL9	6000	358335	0.366	10.21
0E01048-CALA	8000	465875	0.371	10.21

AVE RF **0.329** RF RSD **22.80** AVE RT **10.20**

2,3,5-Trimethylnaphthalene

Curve Fit: **AVERAGE RF**

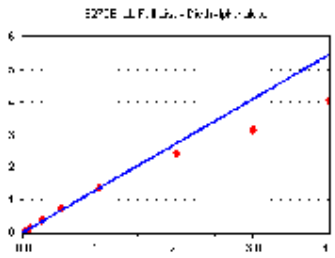


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3993	1.116	10.29
0E01048-CAL2	50	9734	1.141	10.29
0E01048-CAL3	100	21856	1.229	10.29
0E01048-CAL4	200	44649	1.284	10.29
0E01048-CAL5	500	108132	1.292	10.29
0E01048-CAL6	1000	203355	1.199	10.29
0E01048-CAL7	2000	378517	1.125	10.29
0E01048-CAL8	4000	648195	1.009	10.30
0E01048-CAL9	6000	895832	0.916	10.30
0E01048-CALA	8000	1081008	0.861	10.30

AVE RF **1.117** RF RSD **13.21** AVE RT **10.29**

Diethylphthalate

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4954	1.385	10.29
0E01048-CAL2	50	12841	1.505	10.29
0E01048-CAL3	100	27495	1.546	10.29
0E01048-CAL4	200	53766	1.546	10.29
0E01048-CAL5	500	129544	1.548	10.29
0E01048-CAL6	1000	247936	1.462	10.29
0E01048-CAL7	2000	455636	1.354	10.30
0E01048-CAL8	4000	786255	1.223	10.30
0E01048-CAL9	6000	1028926	1.052	10.31
0E01048-CALA	8000	1270464	1.012	10.31

AVE RF **1.363** RF RSD **14.89** AVE RT **10.29**

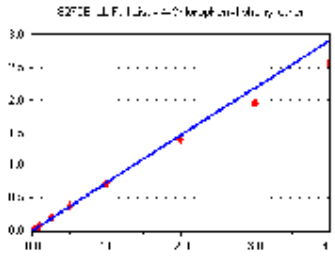
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

4-Chlorophenyl phenyl ether

Curve Fit: **AVERAGE RF**

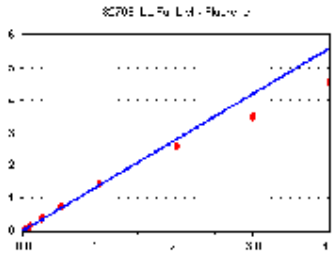


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2587	0.723	10.42
0E01048-CAL2	50	6122	0.718	10.42
0E01048-CAL3	100	14011	0.788	10.42
0E01048-CAL4	200	27516	0.791	10.42
0E01048-CAL5	500	66625	0.796	10.42
0E01048-CAL6	1000	126110	0.744	10.42
0E01048-CAL7	2000	244428	0.726	10.42
0E01048-CAL8	4000	447464	0.696	10.42
0E01048-CAL9	6000	631834	0.646	10.42
0E01048-CALA	8000	801674	0.639	10.43

AVE RF **0.727** RF RSD **7.71** AVE RT **10.42**

Fluorene

Curve Fit: **AVERAGE RF**

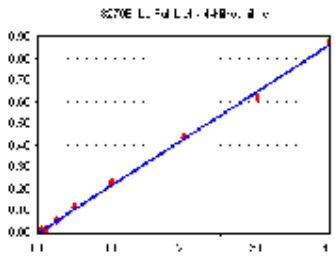


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4850	1.356	10.42
0E01048-CAL2	50	11179	1.311	10.42
0E01048-CAL3	100	27734	1.560	10.43
0E01048-CAL4	200	55055	1.583	10.42
0E01048-CAL5	500	135494	1.619	10.42
0E01048-CAL6	1000	252058	1.486	10.43
0E01048-CAL7	2000	480963	1.429	10.43
0E01048-CAL8	4000	836388	1.301	10.44
0E01048-CAL9	6000	1143948	1.170	10.44
0E01048-CALA	8000	1419760	1.131	10.44

AVE RF **1.395** RF RSD **12.18** AVE RT **10.43**

4-Nitroaniline

Curve Fit: **AVERAGE RF**

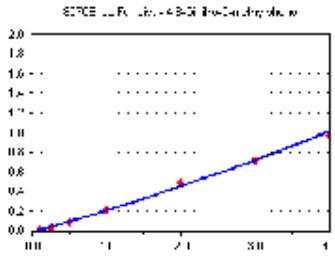


Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~433~~	~~0.121~~	~~10.43~~
~~0E01048-CAL2~~	~~50~~	~~1234~~	~~0.145~~	~~10.43~~
0E01048-CAL3	100	3272	0.184	10.43
0E01048-CAL4	200	7453	0.214	10.43
0E01048-CAL5	500	18421	0.220	10.43
0E01048-CAL6	1000	38891	0.229	10.43
0E01048-CAL7	2000	76264	0.227	10.44
0E01048-CAL8	4000	141155	0.220	10.45
0E01048-CAL9	6000	203041	0.208	10.46
0E01048-CALA	8000	273695	0.218	10.46

AVE RF **0.215** RF RSD **6.60** AVE RT **10.44**

4,6-Dinitro-2-methylphenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01048-CAL2~~	~~50~~	~~137~~	~~1.606~~	~~10.46~~
~~0E01048-CAL3~~	~~100~~	~~765~~	~~4.303~~	~~10.46~~
0E01048-CAL4	200	2570	7.389	10.46
0E01048-CAL5	500	11323	0.135	10.46
0E01048-CAL6	1000	30354	0.179	10.46
0E01048-CAL7	2000	72474	0.215	10.47
0E01048-CAL8	4000	156895	0.244	10.48
0E01048-CAL9	6000	232609	0.238	10.49
0E01048-CALA	8000	306192	0.244	10.49

AVE RF **0.190** RF RSD **34.24** AVE RT **10.47**

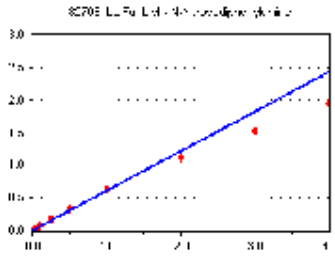
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

N-Nitrosodiphenylamine

Curve Fit: **AVERAGE RF**

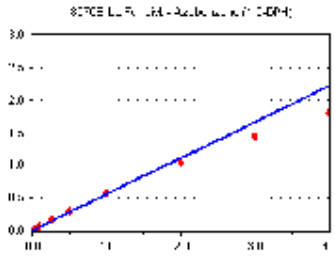


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3338	0.555	10.53
0E01048-CAL2	50	8596	0.598	10.53
0E01048-CAL3	100	21618	0.670	10.54
0E01048-CAL4	200	44173	0.695	10.53
0E01048-CAL5	500	110562	0.701	10.53
0E01048-CAL6	1000	214512	0.667	10.54
0E01048-CAL7	2000	408855	0.635	10.54
0E01048-CAL8	4000	702299	0.560	10.55
0E01048-CAL9	6000	942017	0.510	10.55
0E01048-CALA	8000	1205586	0.487	10.55

AVE RF **0.608** RF RSD **12.73** AVE RT **10.54**

Azobenzene (1,2-DPH)

Curve Fit: **AVERAGE RF**

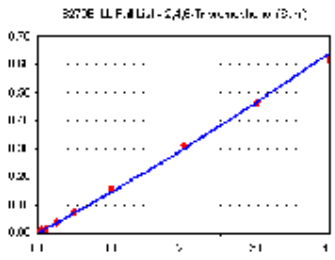


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3045	0.506	10.58
0E01048-CAL2	50	8356	0.581	10.58
0E01048-CAL3	100	19007	0.589	10.58
0E01048-CAL4	200	39378	0.620	10.58
0E01048-CAL5	500	97518	0.618	10.58
0E01048-CAL6	1000	191839	0.597	10.58
0E01048-CAL7	2000	372273	0.579	10.58
0E01048-CAL8	4000	651181	0.519	10.59
0E01048-CAL9	6000	888474	0.481	10.59
0E01048-CALA	8000	1110225	0.448	10.60

AVE RF **0.554** RF RSD **10.91** AVE RT **10.58**

2,4,6-Tribromophenol (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

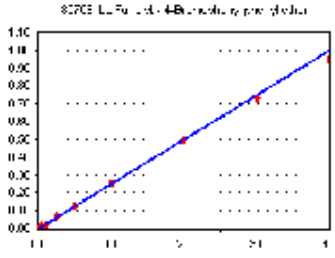


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	445	7.395	10.67
0E01048-CAL2	50	1336	9.289	10.67
0E01048-CAL3	100	3853	0.119	10.68
0E01048-CAL4	200	8155	0.128	10.67
0E01048-CAL5	500	22448	0.142	10.67
0E01048-CAL6	1000	47944	0.149	10.67
0E01048-CAL7	2000	99669	0.155	10.68
0E01048-CAL8	4000	195059	0.156	10.68
0E01048-CAL9	6000	287674	0.156	10.69
0E01048-CALA	8000	380681	0.154	10.69

AVE RF **0.133** RF RSD **21.88** AVE RT **10.68**

4-Bromophenyl phenyl ether

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1403	0.233	10.92
0E01048-CAL2	50	3567	0.248	10.92
0E01048-CAL3	100	8166	0.253	10.92
0E01048-CAL4	200	16553	0.261	10.92
0E01048-CAL5	500	41767	0.265	10.92
0E01048-CAL6	1000	81757	0.254	10.92
0E01048-CAL7	2000	163489	0.254	10.92
0E01048-CAL8	4000	311932	0.249	10.93
0E01048-CAL9	6000	451078	0.244	10.93
0E01048-CALA	8000	588449	0.238	10.93

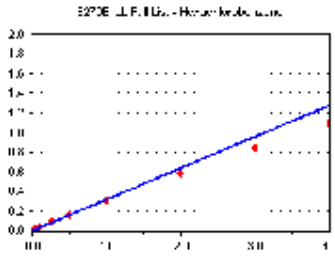
AVE RF **0.250** RF RSD **3.89** AVE RT **10.92**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Hexachlorobenzene

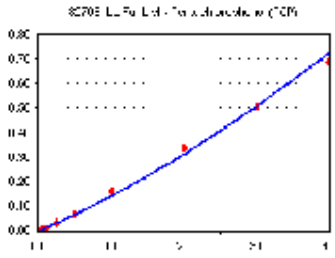


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2025	0.337	11.00
0E01048-CAL2	50	5084	0.353	11.00
0E01048-CAL3	100	11614	0.360	11.00
0E01048-CAL4	200	22342	0.352	11.00
0E01048-CAL5	500	53003	0.336	11.00
0E01048-CAL6	1000	102514	0.319	11.00
0E01048-CAL7	2000	195498	0.304	11.01
0E01048-CAL8	4000	362746	0.289	11.01
0E01048-CAL9	6000	517399	0.280	11.01
0E01048-CALA	8000	672890	0.272	11.01

AVE RF **0.320** RF RSD **10.09** AVE RT **11.01**

Pentachlorophenol (PCP)

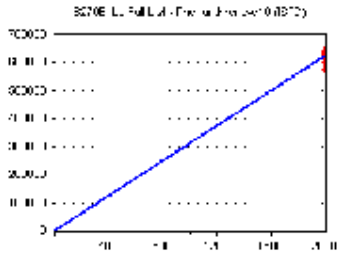


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~102~~	~~1.695~~	~~11.19~~
0E01048-CAL2	50	552	3.838	11.20
0E01048-CAL3	100	2358	0.073	11.19
0E01048-CAL4	200	5400	8.502	11.19
0E01048-CAL5	500	18897	0.120	11.19
0E01048-CAL6	1000	45305	0.141	11.19
0E01048-CAL7	2000	103626	0.161	11.20
0E01048-CAL8	4000	211120	0.168	11.20
0E01048-CAL9	6000	312170	0.169	11.20
0E01048-CALA	8000	425010	0.172	11.21

AVE RF **0.125** RF RSD **39.28** AVE RT **11.20**

Phenanthrene-d10 (ISTD)

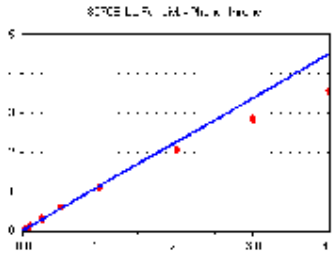


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	601725	300.863	11.39
0E01048-CAL2	2000	575287	287.643	11.39
0E01048-CAL3	2000	645096	322.548	11.39
0E01048-CAL4	2000	635167	317.583	11.39
0E01048-CAL5	2000	630899	315.450	11.39
0E01048-CAL6	2000	643209	321.605	11.39
0E01048-CAL7	2000	643513	321.757	11.39
0E01048-CAL8	2000	626814	313.407	11.39
0E01048-CAL9	2000	615884	307.942	11.40
0E01048-CALA	2000	618950	309.475	11.40

AVE RF **311.827** RF RSD **3.52** AVE RT **11.39**

Phenanthrene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	7531	1.252	11.41
0E01048-CAL2	50	17339	1.206	11.41
0E01048-CAL3	100	39573	1.227	11.41
0E01048-CAL4	200	78539	1.237	11.41
0E01048-CAL5	500	192437	1.220	11.41
0E01048-CAL6	1000	374187	1.164	11.41
0E01048-CAL7	2000	702306	1.091	11.42
0E01048-CAL8	4000	1281640	1.022	11.42
0E01048-CAL9	6000	1749249	0.947	11.42
0E01048-CALA	8000	2205671	0.891	11.42

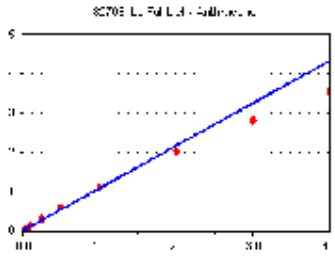
AVE RF **1.126** RF RSD **11.63** AVE RT **11.42**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Anthracene

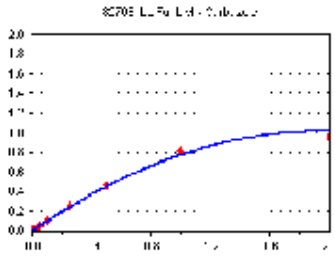


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6216	1.033	11.46
0E01048-CAL2	50	15713	1.093	11.46
0E01048-CAL3	100	37735	1.170	11.46
0E01048-CAL4	200	76033	1.197	11.46
0E01048-CAL5	500	189259	1.200	11.46
0E01048-CAL6	1000	374197	1.164	11.46
0E01048-CAL7	2000	712315	1.107	11.47
0E01048-CAL8	4000	1278996	1.020	11.47
0E01048-CAL9	6000	1732004	0.937	11.48
0E01048-CALA	8000	2197141	0.887	11.48

AVE RF **1.081** RF RSD **10.10** AVE RT **11.47**

Carbazole

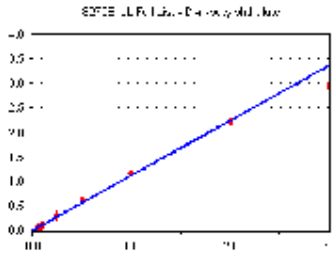


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4414	0.734	11.62
0E01048-CAL2	50	12342	0.858	11.62
0E01048-CAL3	100	29809	0.924	11.62
0E01048-CAL4	200	61914	0.975	11.62
0E01048-CAL5	500	158571	1.005	11.62
0E01048-CAL6	1000	298950	0.930	11.62
0E01048-CAL7	2000	523258	0.813	11.63
0E01048-CAL8	4000	602292	0.480	11.63
~~0E01048-CAL9~~	~~6000~~	~~685341~~	~~0.371~~	~~11.63~~
~~0E01048-CALA~~	~~8000~~	~~1042183~~	~~0.421~~	~~11.63~~

AVE RF **0.840** RF RSD **20.24** AVE RT **11.62**

Di-n-butylphthalate

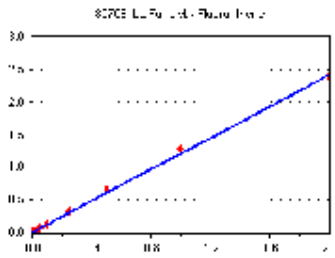


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~5086~~	~~0.845~~	~~11.96~~
~~0E01048-CAL2~~	~~50~~	~~13365~~	~~0.929~~	~~11.96~~
0E01048-CAL3	100	33644	1.043	11.97
0E01048-CAL4	200	70740	1.114	11.96
0E01048-CAL5	500	192660	1.221	11.97
0E01048-CAL6	1000	394866	1.228	11.97
0E01048-CAL7	2000	751793	1.168	11.98
0E01048-CAL8	4000	1394915	1.113	11.98
0E01048-CAL9	6000	1828582	0.990	11.98
~~0E01048-CALA~~	~~8000~~	~~2399103~~	~~0.969~~	~~11.98~~

AVE RF **1.125** RF RSD **7.87** AVE RT **11.97**

Fluoranthene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5907	0.982	12.74
0E01048-CAL2	50	15666	1.089	12.74
0E01048-CAL3	100	38512	1.194	12.74
0E01048-CAL4	200	81473	1.283	12.74
0E01048-CAL5	500	207862	1.318	12.74
0E01048-CAL6	1000	422934	1.315	12.74
0E01048-CAL7	2000	825251	1.282	12.75
0E01048-CAL8	4000	1505186	1.201	12.75
~~0E01048-CAL9~~	~~6000~~	~~2010843~~	~~1.088~~	~~12.76~~
~~0E01048-CALA~~	~~8000~~	~~2637205~~	~~1.065~~	~~12.76~~

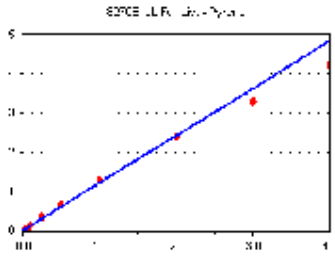
AVE RF **1.208** RF RSD **9.91** AVE RT **12.74**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Pyrene

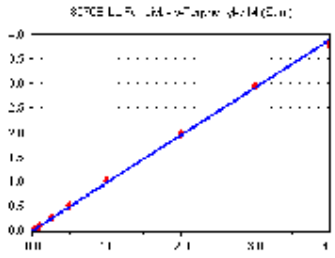


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6308	1.048	13.06
0E01048-CAL2	50	16274	1.132	13.06
0E01048-CAL3	100	40211	1.247	13.06
0E01048-CAL4	200	83478	1.314	13.06
0E01048-CAL5	500	219139	1.389	13.06
0E01048-CAL6	1000	423172	1.316	13.06
0E01048-CAL7	2000	829284	1.289	13.07
0E01048-CAL8	4000	1501003	1.197	13.07
0E01048-CAL9	6000	2033824	1.101	13.07
0E01048-CALA	8000	2616481	1.057	13.08

AVE RF **1.209** RF RSD **9.93** AVE RT **13.06**

p-Terphenyl-d14 (Surr)

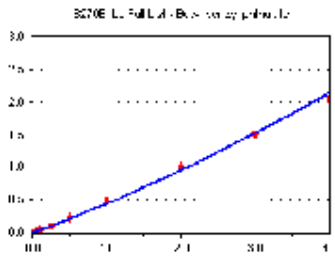


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4927	0.765	13.28
0E01048-CAL2	50	13754	0.895	13.28
0E01048-CAL3	100	33303	1.000	13.27
0E01048-CAL4	200	66177	1.008	13.27
0E01048-CAL5	500	170092	1.056	13.27
0E01048-CAL6	1000	335419	1.037	13.27
0E01048-CAL7	2000	649225	1.022	13.29
0E01048-CAL8	4000	1222290	0.991	13.29
0E01048-CAL9	6000	1636098	0.982	13.29
0E01048-CALA	8000	2208764	0.953	13.29

AVE RF **0.971** RF RSD **8.78** AVE RT **13.28**

Butyl benzyl phthalate

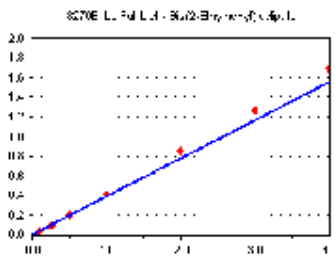


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1032~~	~~0.160~~	~~14.16~~
0E01048-CAL2	50	3054	0.199	14.16
0E01048-CAL3	100	8439	0.253	14.15
0E01048-CAL4	200	19934	0.304	14.16
0E01048-CAL5	500	64881	0.403	14.15
0E01048-CAL6	1000	145488	0.450	14.15
0E01048-CAL7	2000	304776	0.480	14.17
0E01048-CAL8	4000	625201	0.507	14.17
0E01048-CAL9	6000	839217	0.504	14.17
0E01048-CALA	8000	1186472	0.512	14.18

AVE RF **0.401** RF RSD **29.86** AVE RT **14.16**

Bis(2-Ethylhexyl) adipate



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1334~~	~~0.207~~	~~14.34~~
~~0E01048-CAL2~~	~~50~~	~~3128~~	~~0.204~~	~~14.35~~
~~0E01048-CAL3~~	~~100~~	~~7943~~	~~0.239~~	~~14.35~~
0E01048-CAL4	200	18549	0.282	14.34
0E01048-CAL5	500	58573	0.364	14.34
0E01048-CAL6	1000	123453	0.381	14.34
0E01048-CAL7	2000	263361	0.414	14.37
0E01048-CAL8	4000	529388	0.429	14.36
0E01048-CAL9	6000	700244	0.420	14.36
0E01048-CALA	8000	982873	0.424	14.37

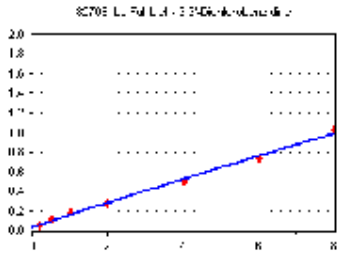
AVE RF **0.388** RF RSD **13.52** AVE RT **14.35**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

3,3'-Dichlorobenzidine

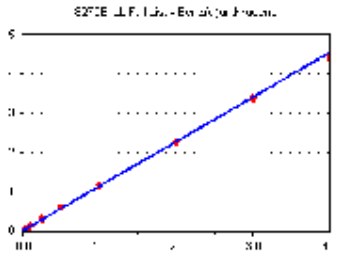


Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~40~~	~~2441~~	~~0.189~~	~~0.00~~
~~0E01048-CAL2~~	~~100~~	~~6397~~	~~0.208~~	~~0.00~~
~~0E01048-CAL3~~	~~200~~	~~16151~~	~~0.243~~	~~15.33~~
0E01048-CAL4	400	34852	0.265	15.33
0E01048-CAL5	1000	70720	0.220	15.33
0E01048-CAL6	2000	118777	0.184	15.33
0E01048-CAL7	4000	178328	0.140	15.37
0E01048-CAL8	8000	309410	0.125	15.37
0E01048-CAL9	12000	405603	0.122	15.37
0E01048-CALA	16000	596438	0.129	15.38

AVE RF **0.169** RF RSD **32.93** AVE RT **15.35**

Benz(a)anthracene

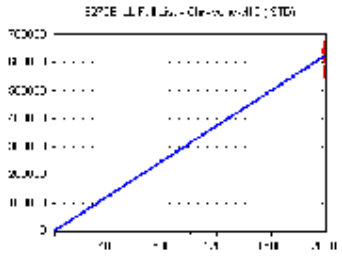


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	7626	1.184	15.38
0E01048-CAL2	50	16598	1.080	15.38
0E01048-CAL3	100	36118	1.085	15.38
0E01048-CAL4	200	74103	1.128	15.37
0E01048-CAL5	500	188950	1.173	15.38
0E01048-CAL6	1000	376853	1.165	15.38
0E01048-CAL7	2000	742522	1.168	15.40
0E01048-CAL8	4000	1395465	1.131	15.40
0E01048-CAL9	6000	1868254	1.122	15.41
0E01048-CALA	8000	2560645	1.104	15.41

AVE RF **1.134** RF RSD **3.29** AVE RT **15.39**

Chrysene-d12 (ISTD)

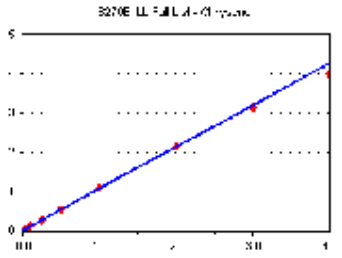


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	644210	322.105	15.40
0E01048-CAL2	2000	614670	307.335	15.41
0E01048-CAL3	2000	665942	332.971	15.40
0E01048-CAL4	2000	656760	328.380	15.40
0E01048-CAL5	2000	644327	322.163	15.40
0E01048-CAL6	2000	647204	323.602	15.40
0E01048-CAL7	2000	635452	317.726	15.43
0E01048-CAL8	2000	616881	308.440	15.43
0E01048-CAL9	2000	555110	277.555	15.43
0E01048-CALA	2000	579608	289.804	15.44

AVE RF **313.008** RF RSD **5.62** AVE RT **15.42**

Chrysene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6450	1.001	15.46
0E01048-CAL2	50	16614	1.081	15.46
0E01048-CAL3	100	35070	1.053	15.46
0E01048-CAL4	200	73042	1.112	15.46
0E01048-CAL5	500	182412	1.132	15.46
0E01048-CAL6	1000	354860	1.097	15.46
0E01048-CAL7	2000	694601	1.093	15.49
0E01048-CAL8	4000	1316345	1.067	15.50
0E01048-CAL9	6000	1740049	1.045	15.50
0E01048-CALA	8000	2318563	1.000	15.51

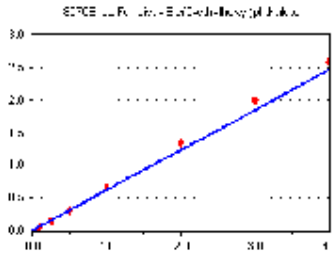
AVE RF **1.068** RF RSD **4.13** AVE RT **15.47**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Bis(2-ethylhexyl)phthalate

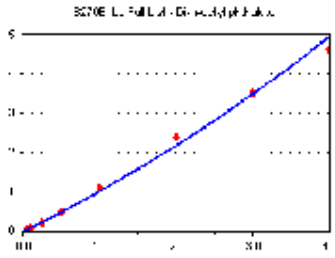


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1621~~	~~0.252~~	~~15.54~~
~~0E01048-CAL2~~	~~50~~	~~3824~~	~~0.249~~	~~15.54~~
~~0E01048-CAL3~~	~~100~~	~~10710~~	~~0.322~~	~~15.54~~
0E01048-CAL4	200	28975	0.441	15.54
0E01048-CAL5	500	94935	0.589	15.54
0E01048-CAL6	1000	203493	0.629	15.54
0E01048-CAL7	2000	423910	0.667	15.56
0E01048-CAL8	4000	831541	0.674	15.56
0E01048-CAL9	6000	1106114	0.664	15.56
0E01048-CALA	8000	1495426	0.645	15.57

AVE RF **0.616** RF RSD **13.36** AVE RT **15.56**

Di-n-octyl phthalate

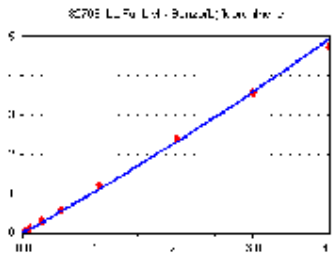


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1651~~	~~0.260~~	~~17.22~~
~~0E01048-CAL2~~	~~50~~	~~4377~~	~~0.281~~	~~17.23~~
0E01048-CAL3	100	11376	0.355	17.22
0E01048-CAL4	200	29855	0.470	17.23
0E01048-CAL5	500	120023	0.766	17.22
0E01048-CAL6	1000	298544	0.939	17.22
0E01048-CAL7	2000	680919	1.103	17.25
0E01048-CAL8	4000	1442635	1.184	17.25
0E01048-CAL9	6000	1961816	1.176	17.25
0E01048-CALA	8000	2730088	1.159	17.26

AVE RF **0.894** RF RSD **37.00** AVE RT **17.24**

Benzo(b)fluoranthene

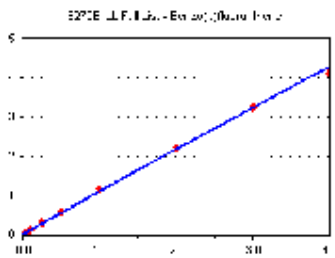


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4506	0.709	18.00
0E01048-CAL2	50	11950	0.766	18.01
0E01048-CAL3	100	28427	0.887	18.00
0E01048-CAL4	200	62932	0.991	18.00
0E01048-CAL5	500	178050	1.137	18.00
0E01048-CAL6	1000	358795	1.129	18.00
0E01048-CAL7	2000	746356	1.209	18.04
0E01048-CAL8	4000	1458700	1.198	18.04
0E01048-CAL9	6000	1988669	1.192	18.05
0E01048-CALA	8000	2786424	1.183	18.06

AVE RF **1.040** RF RSD **18.25** AVE RT **18.02**

Benzo(k)fluoranthene



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4338	0.682	18.07
0E01048-CAL2	50	11834	0.759	18.07
0E01048-CAL3	100	29681	0.926	18.07
0E01048-CAL4	200	65220	1.027	18.07
0E01048-CAL5	500	184628	1.179	18.07
0E01048-CAL6	1000	369147	1.162	18.07
0E01048-CAL7	2000	719032	1.164	18.11
0E01048-CAL8	4000	1354141	1.112	18.11
0E01048-CAL9	6000	1807757	1.083	18.12
0E01048-CALA	8000	2426885	1.030	18.13

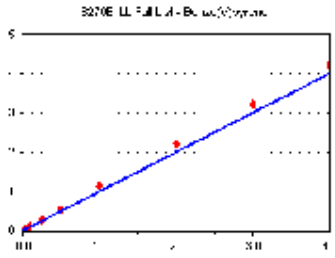
AVE RF **1.012** RF RSD **17.08** AVE RT **18.09**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Benzo(e)pyrene

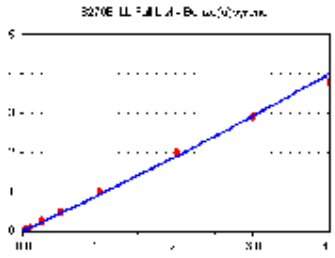


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4525	0.712	18.66
0E01048-CAL2	50	12046	0.772	18.67
0E01048-CAL3	100	29328	0.915	18.66
0E01048-CAL4	200	64740	1.019	18.66
0E01048-CAL5	500	173884	1.110	18.66
0E01048-CAL6	1000	349256	1.099	18.67
0E01048-CAL7	2000	695034	1.125	18.69
0E01048-CAL8	4000	1356699	1.114	18.71
0E01048-CAL9	6000	1792904	1.074	18.71
0E01048-CALA	8000	2485374	1.055	18.73

AVE RF **1.000** RF RSD **14.97** AVE RT **18.68**

Benzo(a)pyrene

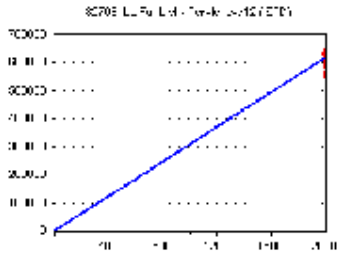


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3486	0.548	18.78
0E01048-CAL2	50	9823	0.630	18.79
0E01048-CAL3	100	22302	0.696	18.78
0E01048-CAL4	200	51841	0.816	18.78
0E01048-CAL5	500	149810	0.956	18.78
0E01048-CAL6	1000	308919	0.972	18.78
0E01048-CAL7	2000	620228	1.004	18.82
0E01048-CAL8	4000	1212487	0.995	18.83
0E01048-CAL9	6000	1628683	0.976	18.83
0E01048-CALA	8000	2233306	0.948	18.85

AVE RF **0.854** RF RSD **19.93** AVE RT **18.80**

Perylene-d12 (ISTD)

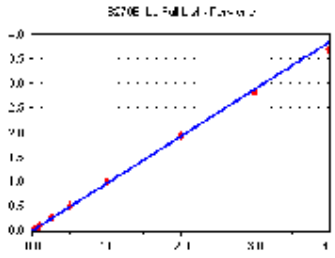


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	635623	317.812	18.93
0E01048-CAL2	2000	623785	311.893	18.93
0E01048-CAL3	2000	641096	320.548	18.93
0E01048-CAL4	2000	635068	317.534	18.93
0E01048-CAL5	2000	626511	313.255	18.93
0E01048-CAL6	2000	635590	317.795	18.93
0E01048-CAL7	2000	617587	308.793	18.96
0E01048-CAL8	2000	609005	304.503	18.96
0E01048-CAL9	2000	556224	278.112	18.96
0E01048-CALA	2000	589023	294.512	18.97

AVE RF **308.476** RF RSD **4.28** AVE RT **18.94**

Perylene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5620	0.884	18.99
0E01048-CAL2	50	14498	0.930	18.99
0E01048-CAL3	100	31802	0.992	18.99
0E01048-CAL4	200	62205	0.980	18.98
0E01048-CAL5	500	160709	1.026	18.99
0E01048-CAL6	1000	315421	0.993	18.99
0E01048-CAL7	2000	616962	0.999	19.02
0E01048-CAL8	4000	1175455	0.965	19.04
0E01048-CAL9	6000	1575409	0.944	19.04
0E01048-CALA	8000	2173662	0.923	19.05

AVE RF **0.963** RF RSD **4.45** AVE RT **19.01**

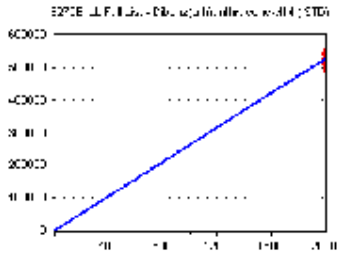
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Dibenz(a,h)anthracene-d14 (ISTD

Curve Fit: **AVERAGE RF**

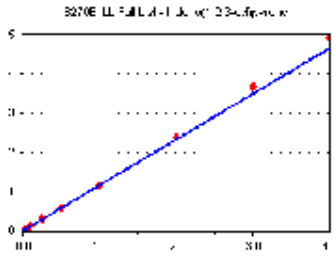


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	508993	254.497	21.34
0E01048-CAL2	2000	506876	253.438	21.34
0E01048-CAL3	2000	525064	262.532	21.33
0E01048-CAL4	2000	528573	264.287	21.33
0E01048-CAL5	2000	518018	259.009	21.33
0E01048-CAL6	2000	543591	271.795	21.34
0E01048-CAL7	2000	539634	269.817	21.36
0E01048-CAL8	2000	544489	272.245	21.37
0E01048-CAL9	2000	497217	248.608	21.38
0E01048-CALA	2000	540731	270.365	21.38

AVE RF **262.659** RF RSD **3.24** AVE RT **21.35**

Indeno(1,2,3-cd)pyrene

Curve Fit: **AVERAGE RF**

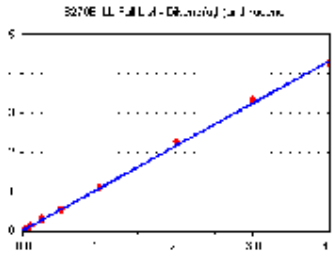


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5874	1.154	21.33
0E01048-CAL2	50	14434	1.139	21.34
0E01048-CAL3	100	29561	1.126	21.33
0E01048-CAL4	200	58782	1.112	21.32
0E01048-CAL5	500	152136	1.175	21.33
0E01048-CAL6	1000	307747	1.132	21.33
0E01048-CAL7	2000	624900	1.158	21.37
0E01048-CAL8	4000	1288601	1.183	21.39
0E01048-CAL9	6000	1822387	1.222	21.39
0E01048-CALA	8000	2652583	1.226	21.41

AVE RF **1.163** RF RSD **3.34** AVE RT **21.35**

Dibenz(a,h)anthracene

Curve Fit: **AVERAGE RF**

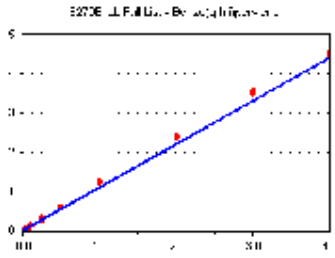


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5072	0.996	21.40
0E01048-CAL2	50	12714	1.003	21.41
0E01048-CAL3	100	27359	1.042	21.39
0E01048-CAL4	200	57576	1.089	21.39
0E01048-CAL5	500	148631	1.148	21.39
0E01048-CAL6	1000	300075	1.104	21.40
0E01048-CAL7	2000	601594	1.115	21.43
0E01048-CAL8	4000	1233028	1.132	21.45
0E01048-CAL9	6000	1647572	1.105	21.45
0E01048-CALA	8000	2315467	1.071	21.46

AVE RF **1.081** RF RSD **4.80** AVE RT **21.42**

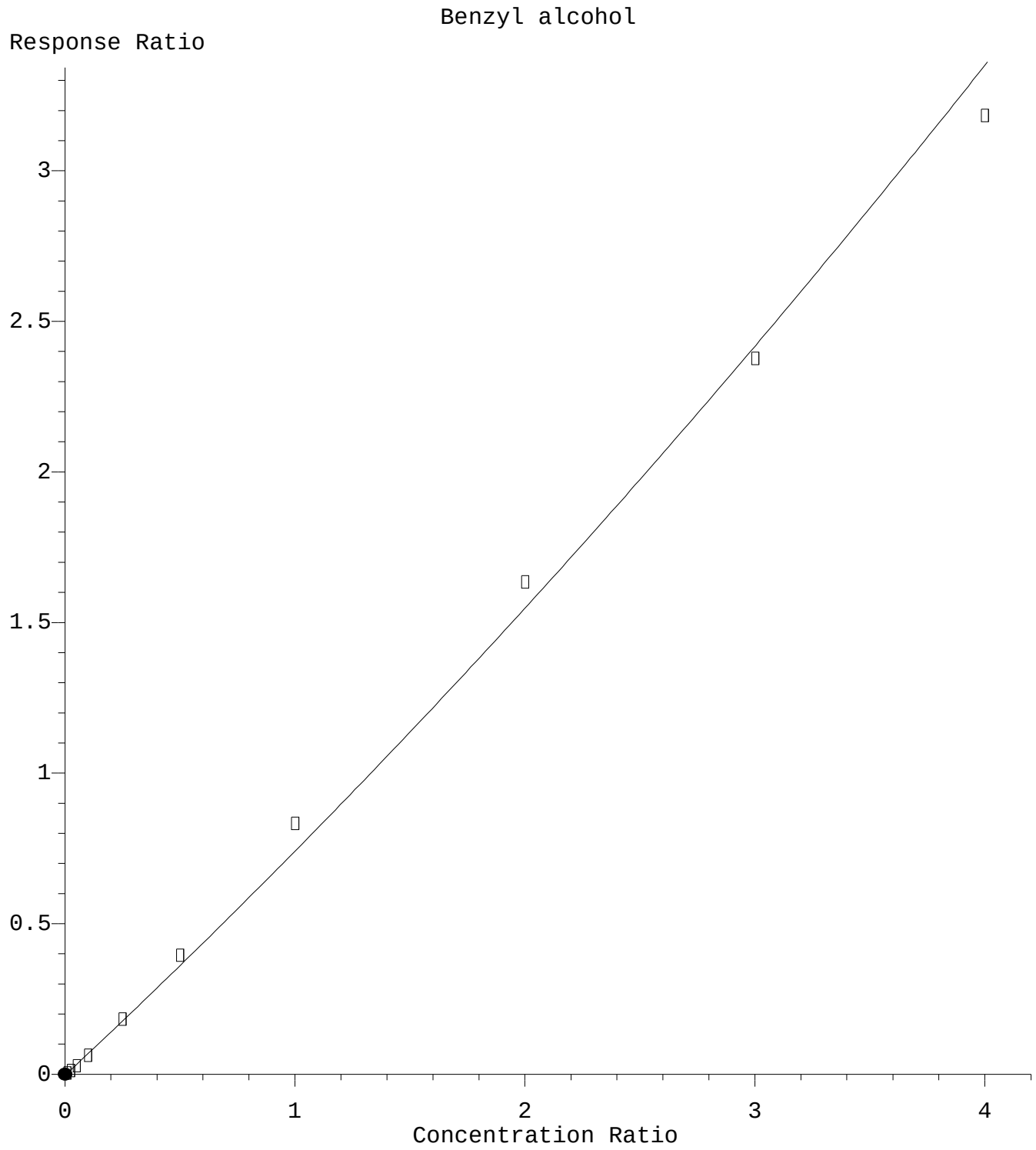
Benzo(g,h,i)perylene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3952	0.776	21.88
0E01048-CAL2	50	11357	0.896	21.88
0E01048-CAL3	100	27334	1.041	21.87
0E01048-CAL4	200	58466	1.106	21.87
0E01048-CAL5	500	158826	1.226	21.87
0E01048-CAL6	1000	328120	1.207	21.88
0E01048-CAL7	2000	669317	1.240	21.91
0E01048-CAL8	4000	1315312	1.208	21.93
0E01048-CAL9	6000	1758939	1.179	21.94
0E01048-CALA	8000	2433679	1.125	21.96

AVE RF **1.101** RF RSD **14.06** AVE RT **21.90**

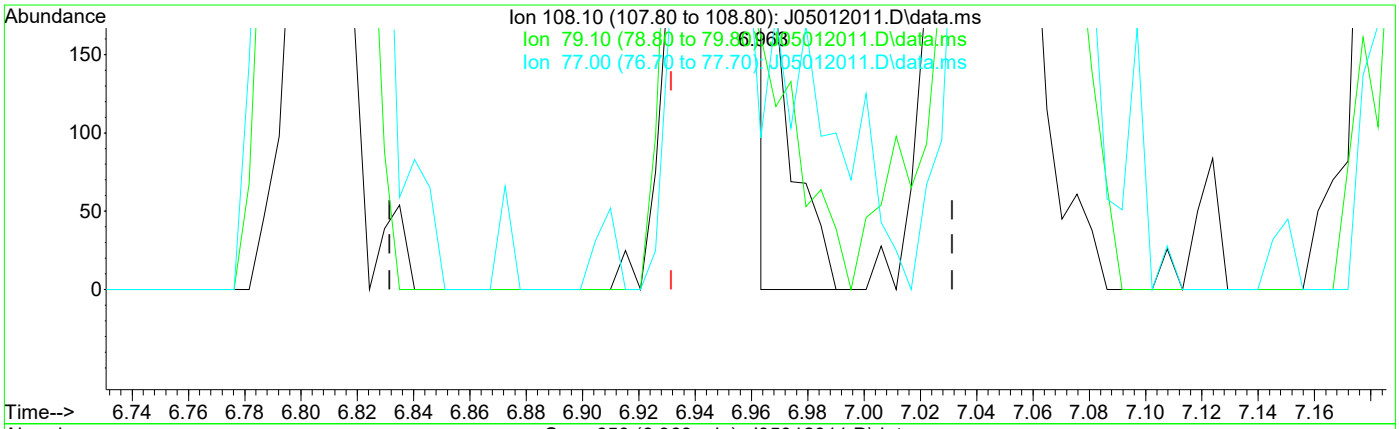


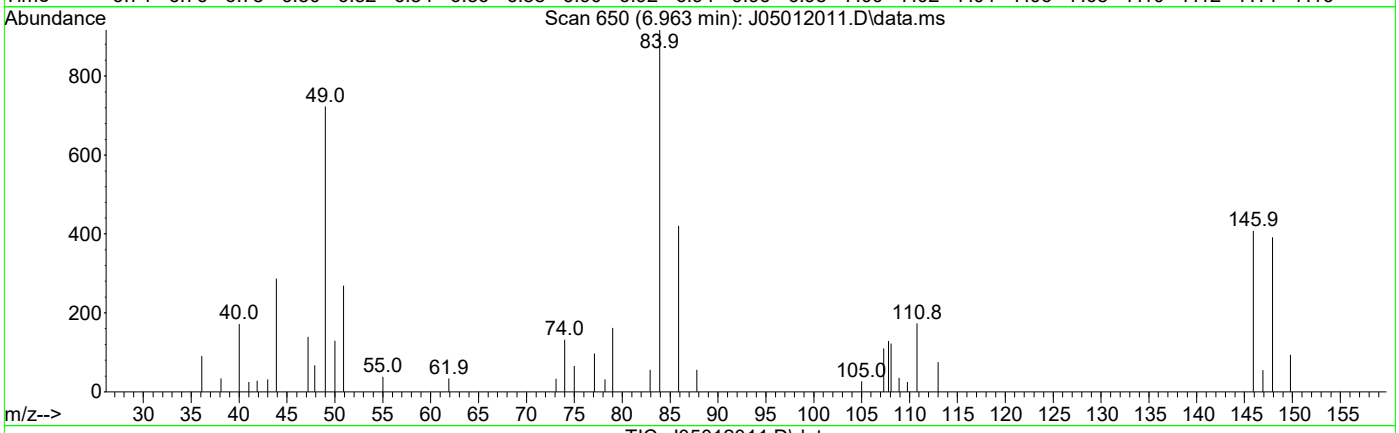
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Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





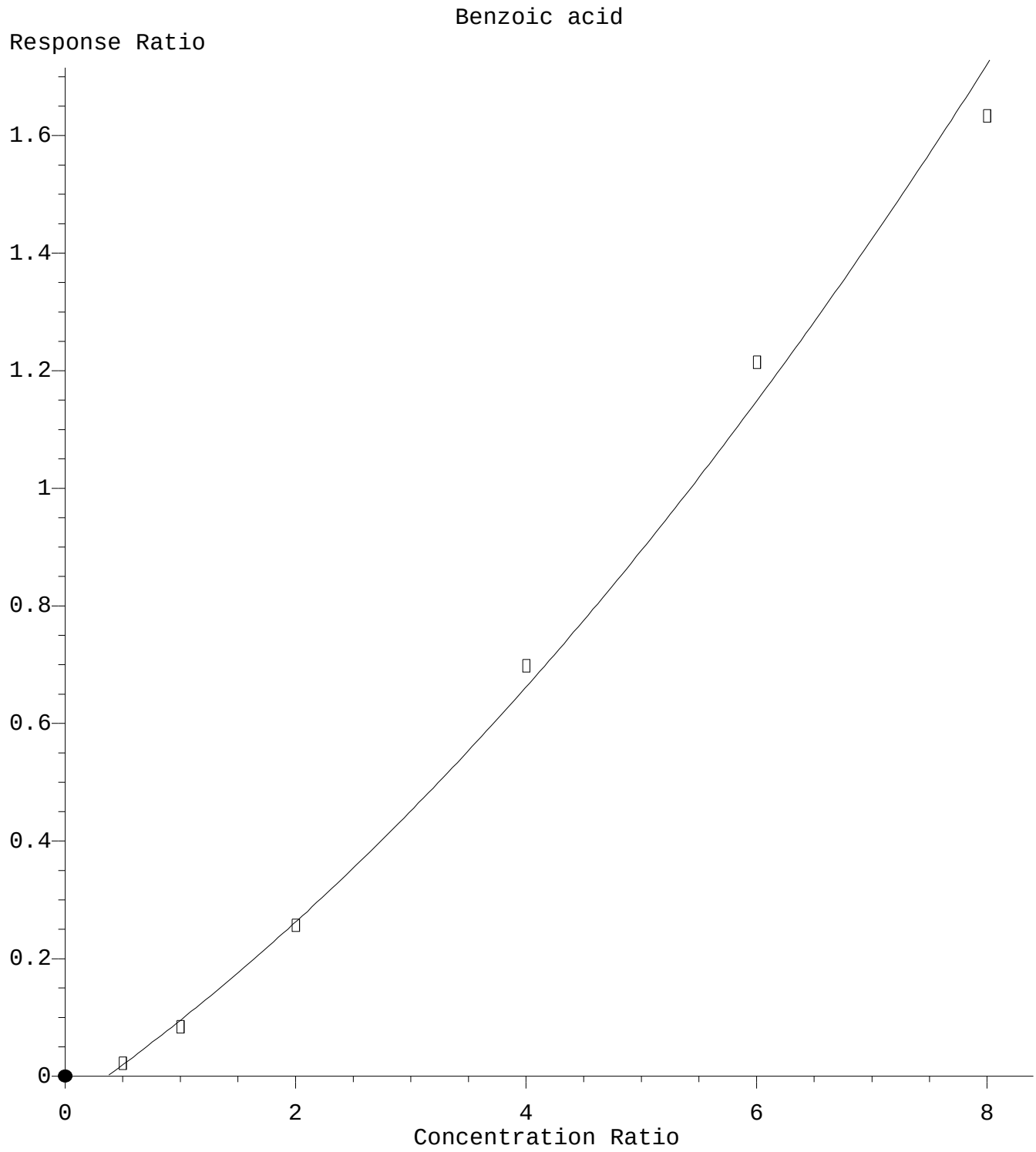
TIC: J05012011.D\data.ms

(12) Benzyl alcohol (T)

6.963min (+ 0.032) 10.31 ng/ml m

response 116

Ion	Exp%	Act%
108.10	100.00	100.00
79.10	104.80	125.58
77.00	64.10	75.19
0.00	0.00	0.00

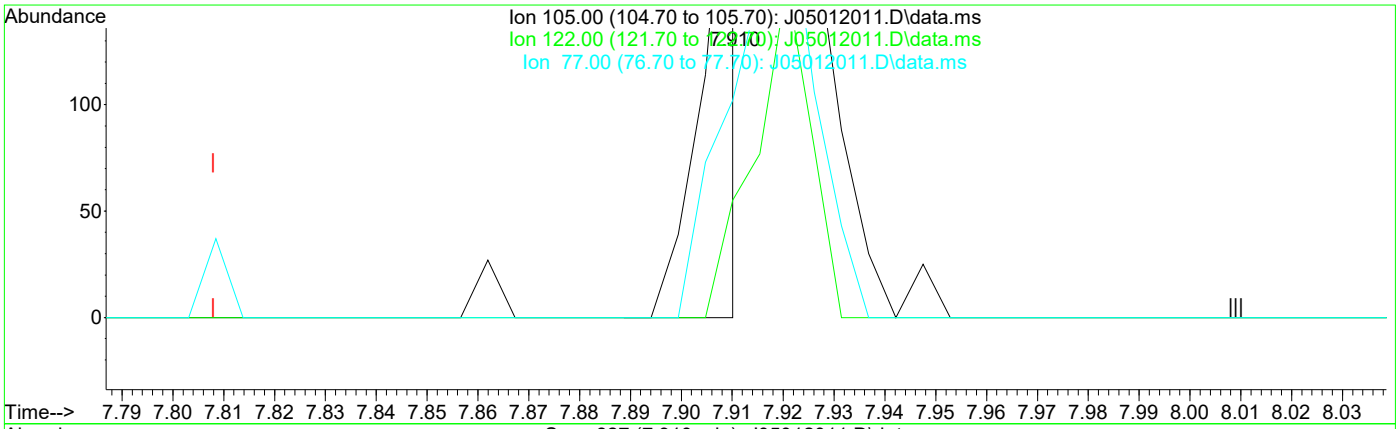


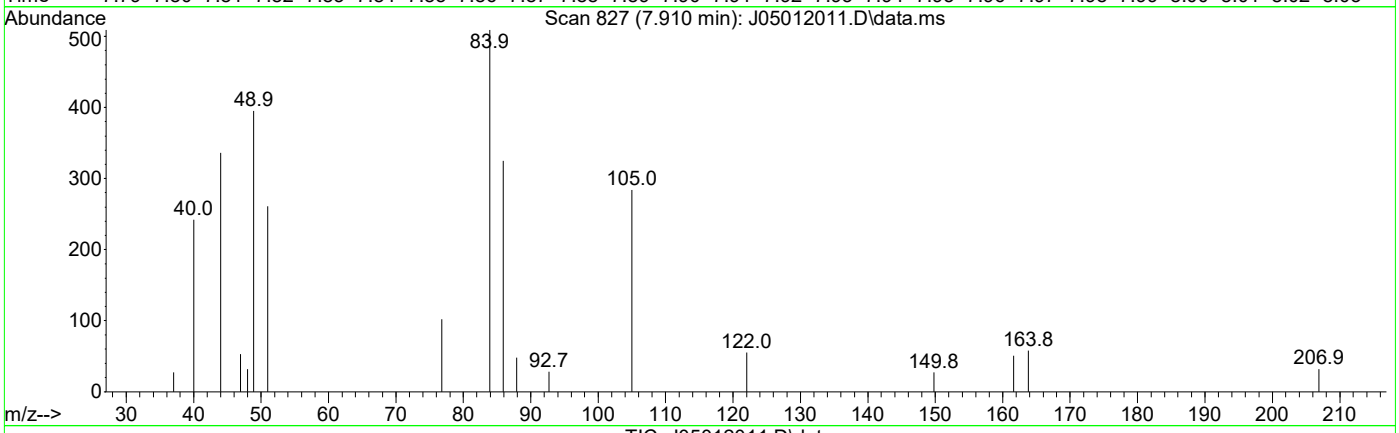
R = 1.08e-002 A*A + 1.35e-001 A - 5.07e-002
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





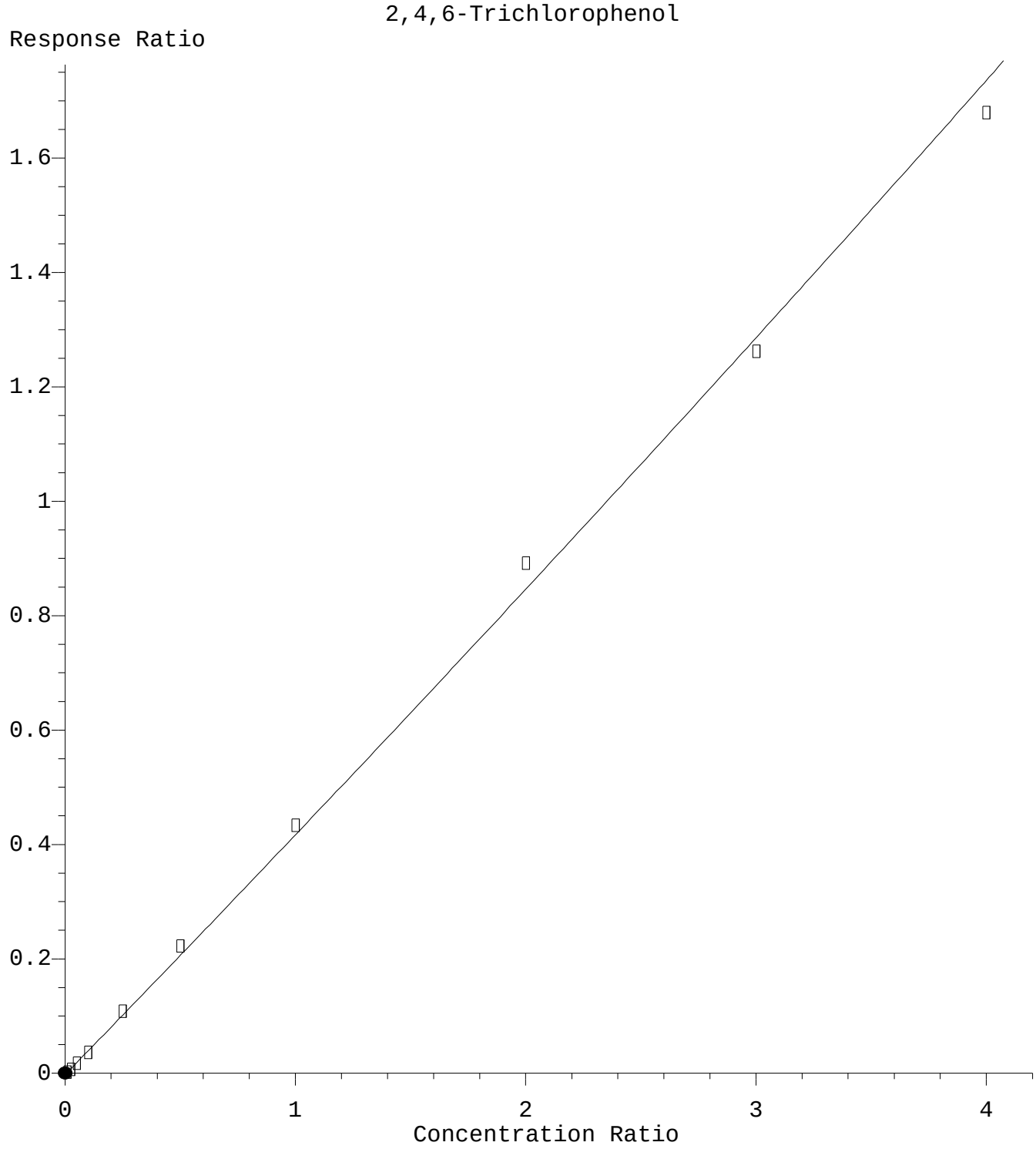
TIC: J05012011.D\data.ms

(26) Benzoic acid (T)

7.910min (+ 0.102) 732.38 ng/ml m

response 140

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	19.37#
77.00	61.50	35.92
0.00	0.00	0.00

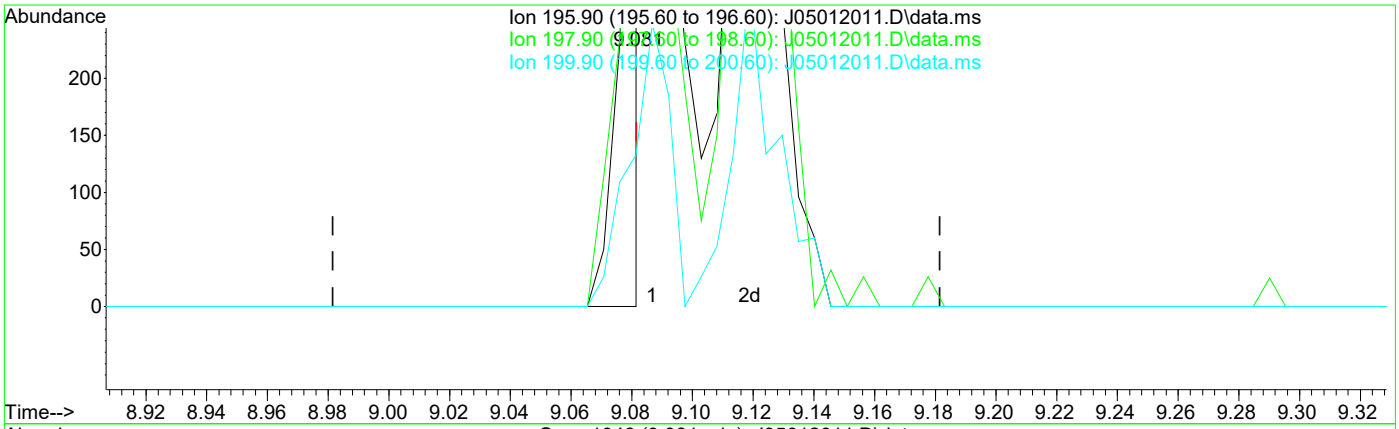


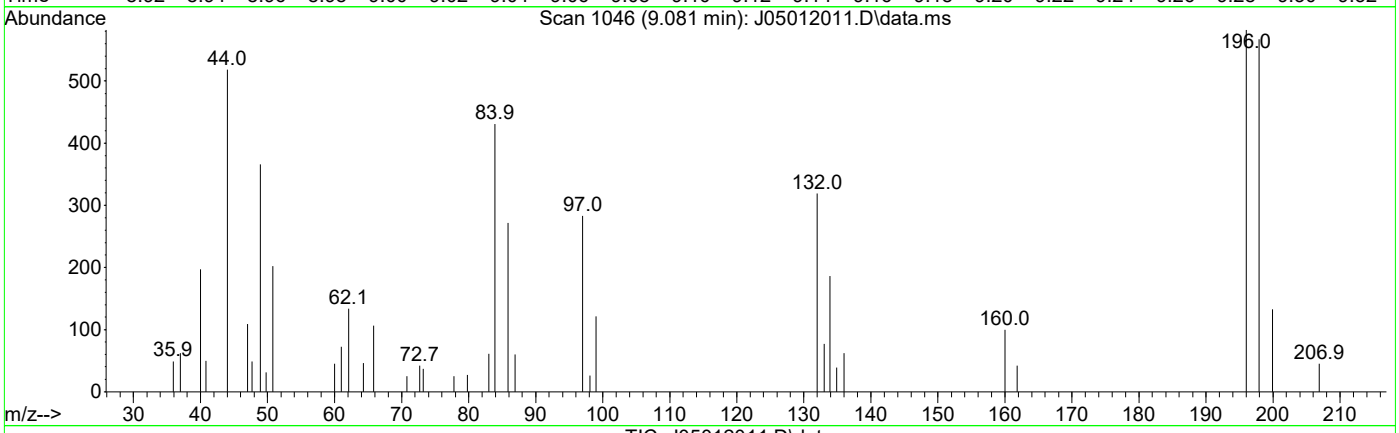
R = 5.17e-003 A*A + 4.14e-001 A - 2.30e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

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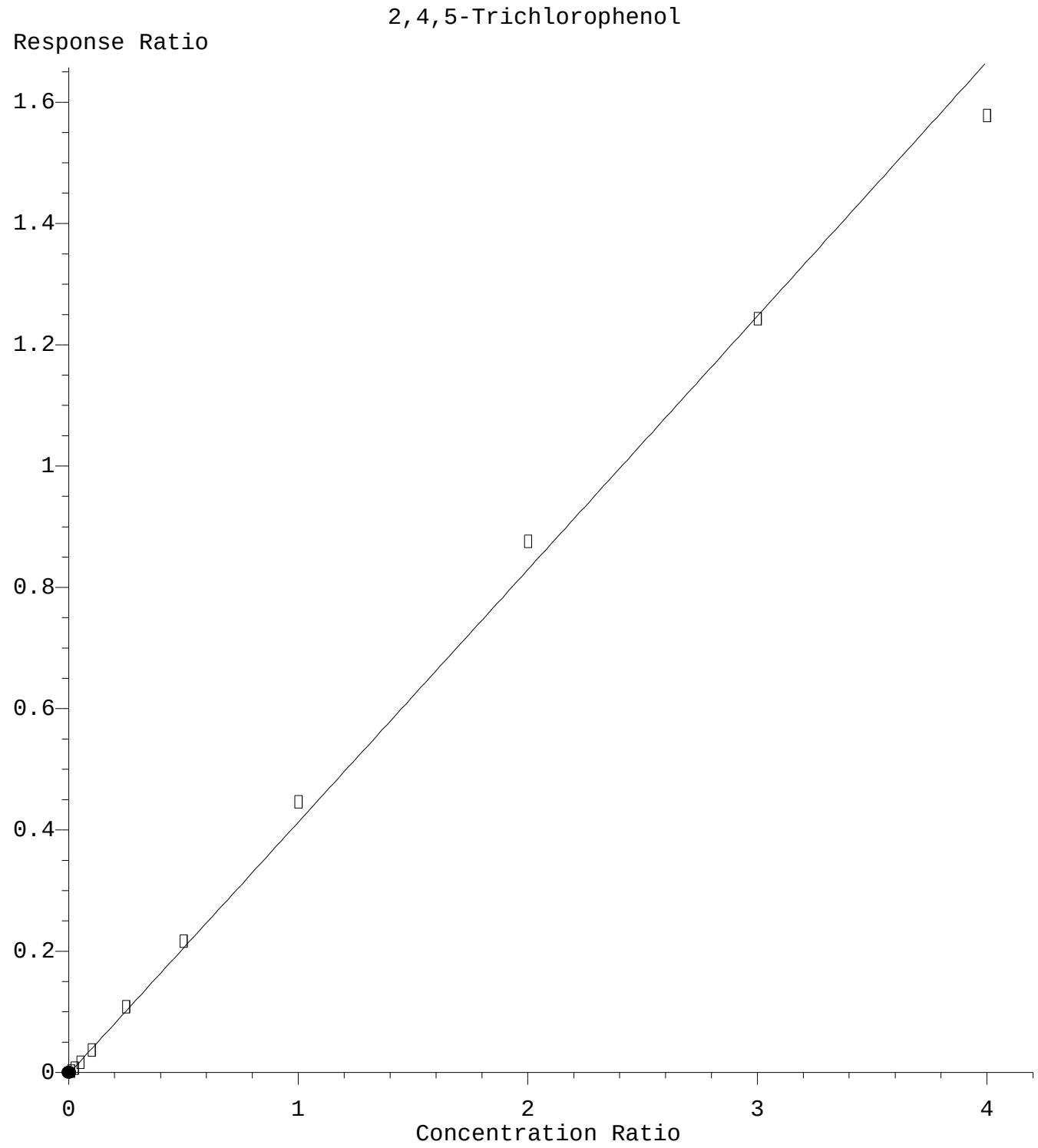
TIC: J05012011.D\data.ms

(37) 2,4,6-Trichlorophenol (T)

9.081min (-0.000) 14.85 ng/ml m

response 277

Ion	Exp%	Act%
195.90	100.00	100.00
197.90	93.90	97.42
199.90	30.10	22.85
0.00	0.00	0.00

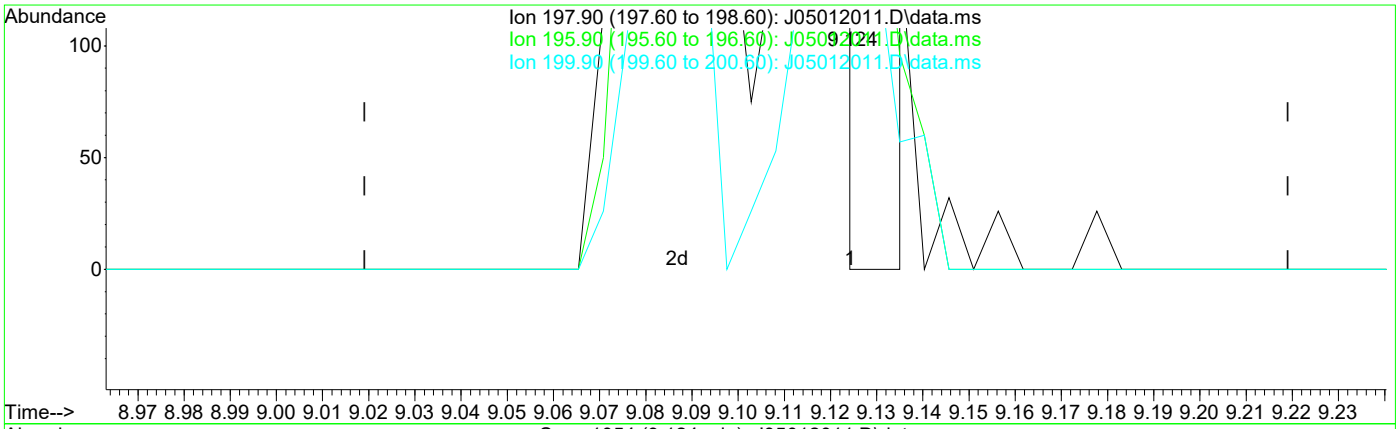


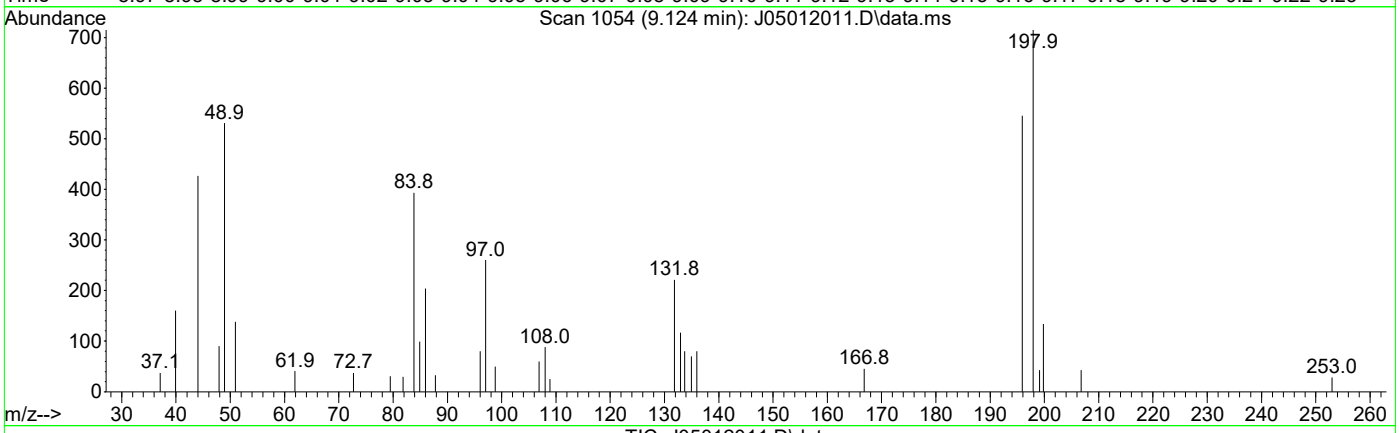
R = 7.51e-004 A*A + 4.14e-001 A - 2.16e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

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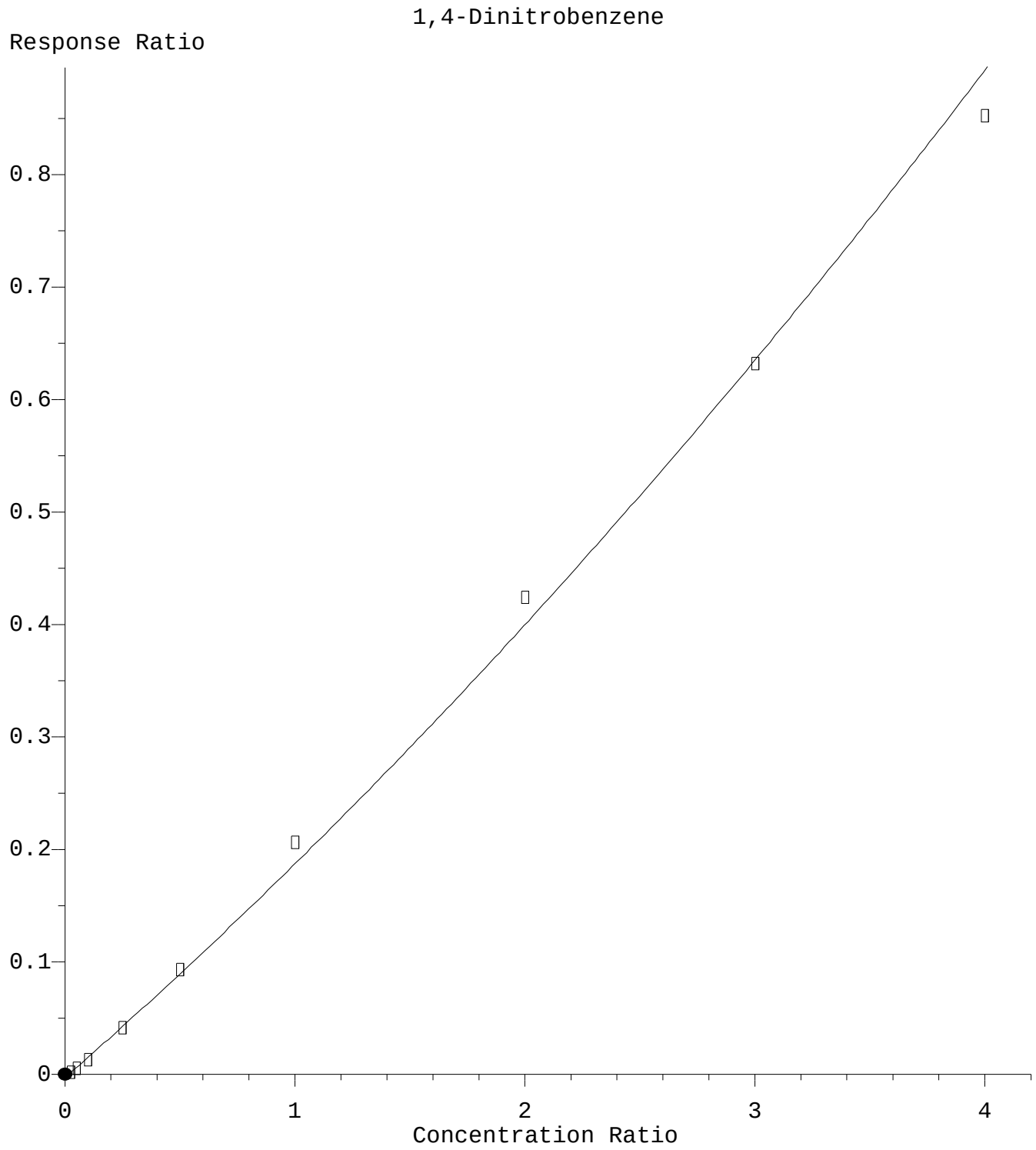
TIC: J05012011.D\data.ms

(38) 2,4,5-Trichlorophenol (T)

9.124min (+ 0.005) 12.66 ng/ml m

response 166

Ion	Exp%	Act%
197.90	100.00	100.00
195.90	100.90	76.36
199.90	30.20	18.74
0.00	0.00	0.00

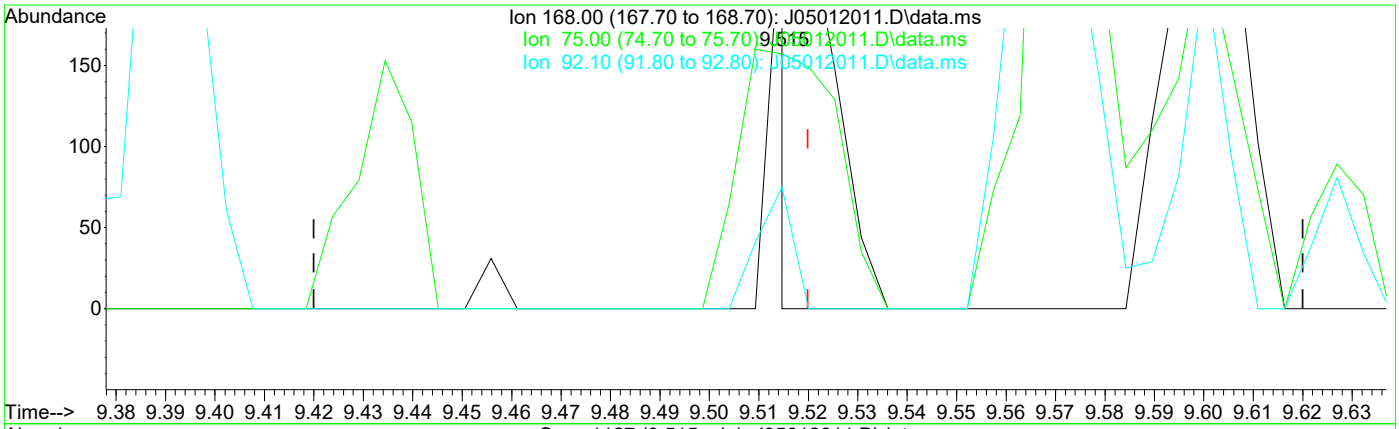


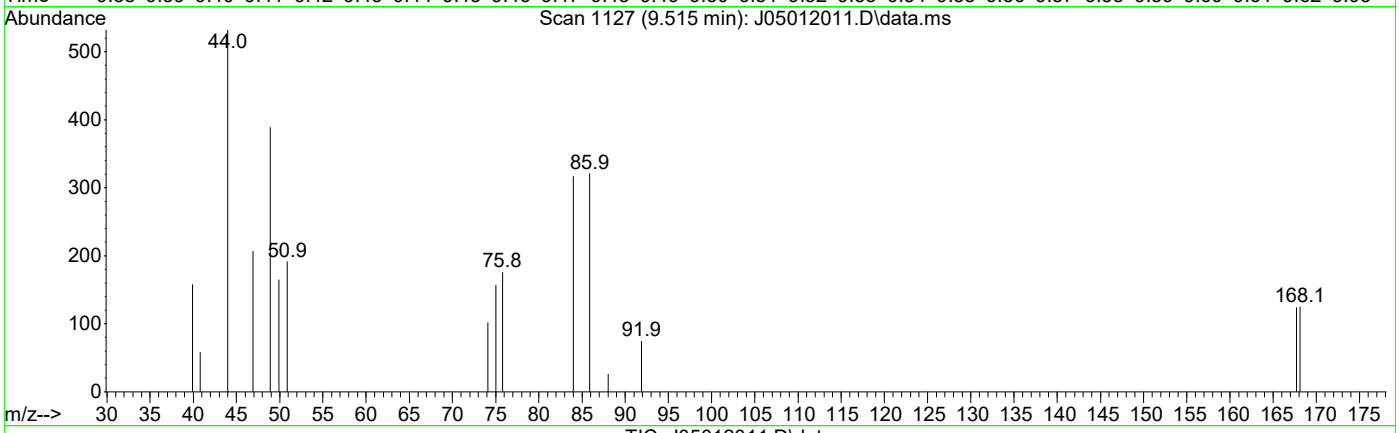
R = 1.13e-002 A*A + 1.79e-001 A - 2.84e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
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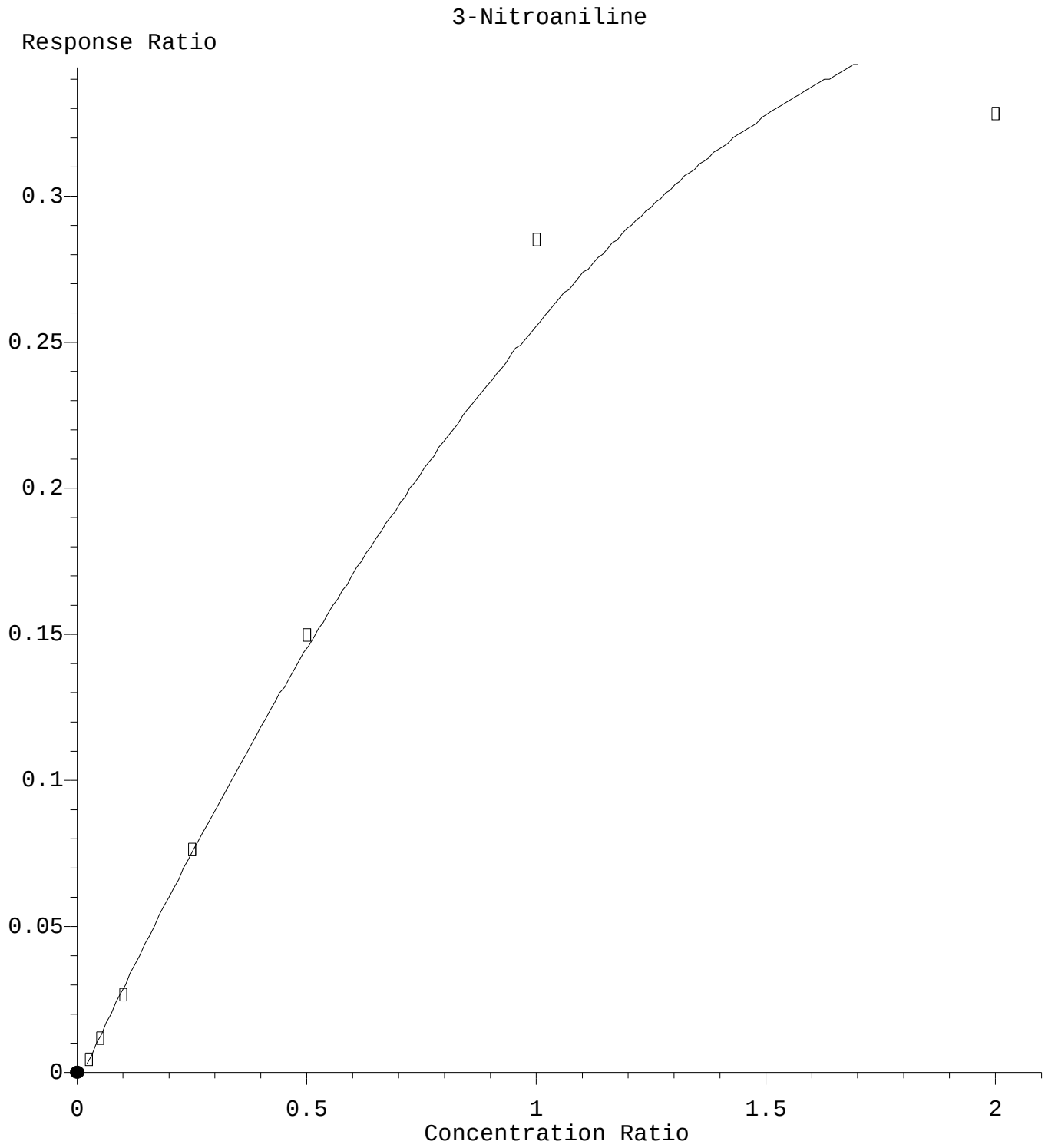
TIC: J05012011.D\data.ms

(44) 1,4-Dinitrobenzene (T)

9.515min (-0.005) 36.17 ng/ml m

response 141

Ion	Exp%	Act%
168.00	100.00	100.00
75.00	92.20	125.60#
92.10	31.30	60.00
0.00	0.00	0.00

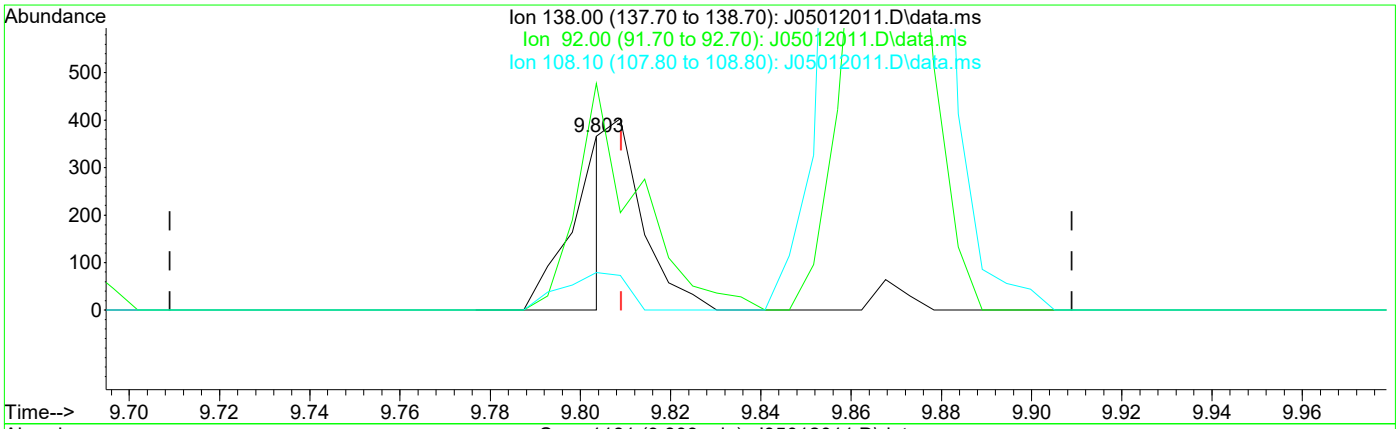


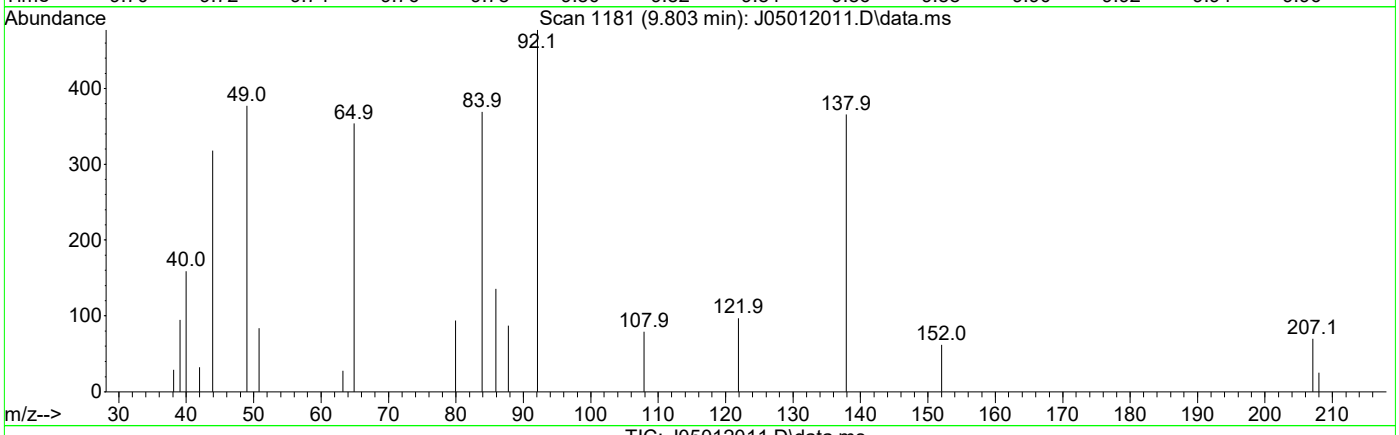
R = -7.77e-002 A*A + 3.38e-001 A - 4.19e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

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Misc : 1x, A20D243@20
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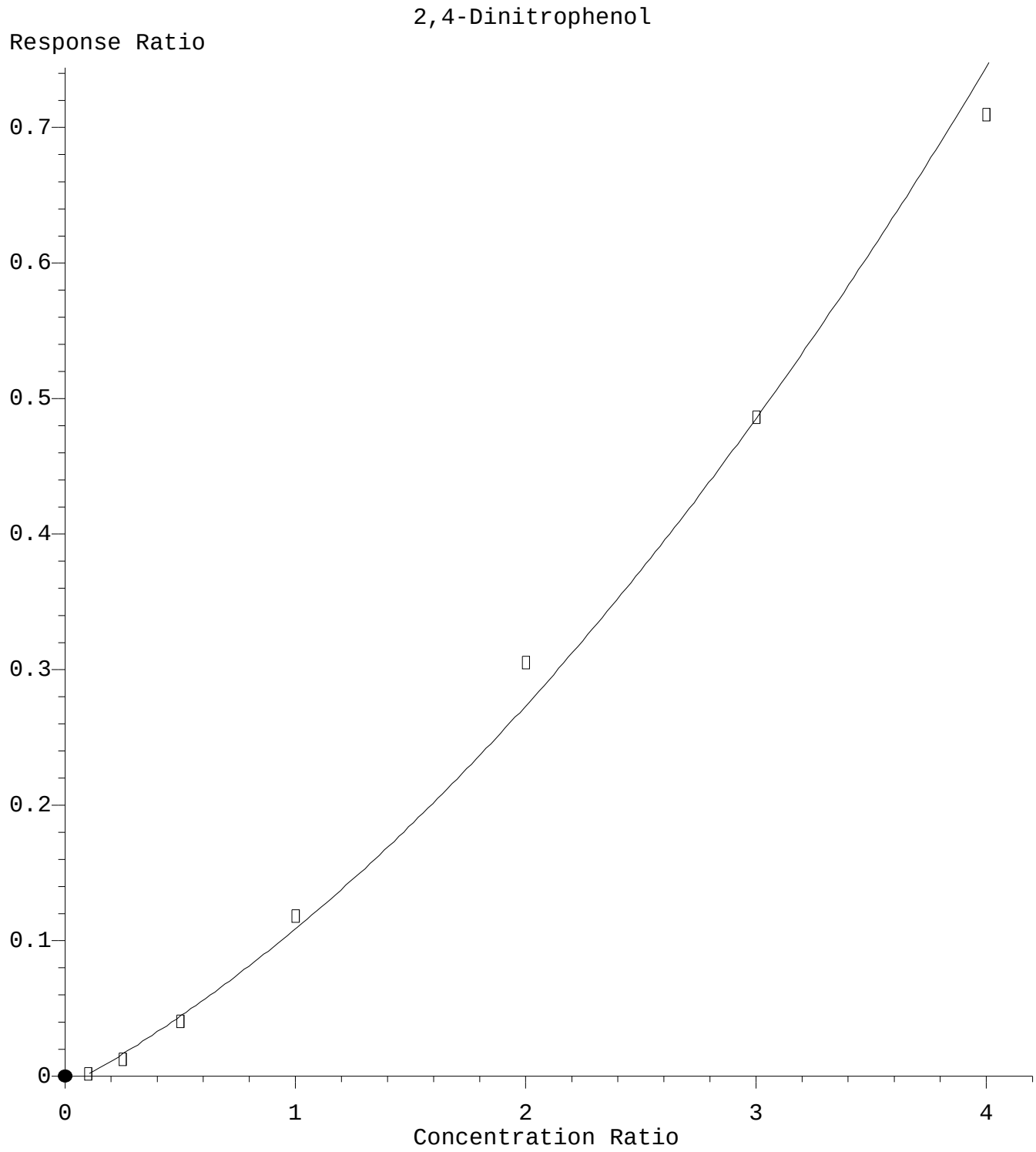
TIC: J05012011.D\data.ms

(50) 3-Nitroaniline (T)

9.803min (-0.005) 28.20 ng/ml m

response 200

Ion	Exp%	Act%
138.00	100.00	100.00
92.00	90.10	130.33#
108.10	9.10	21.58
0.00	0.00	0.00

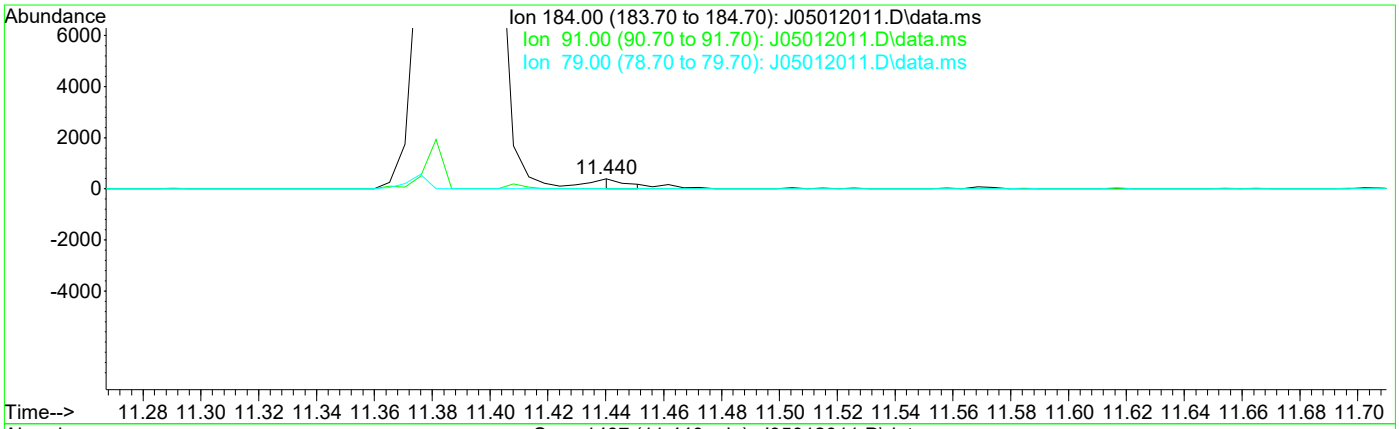


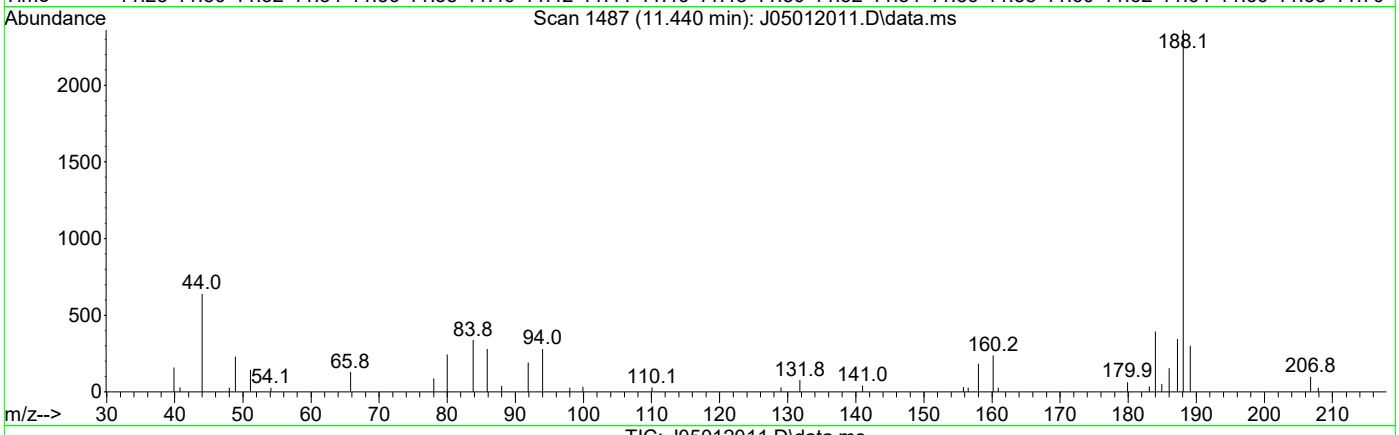
R = 2.37e-002 A*A + 9.36e-002 A - 8.52e-003
Coef of Det (r^2) = 0.992 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

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Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
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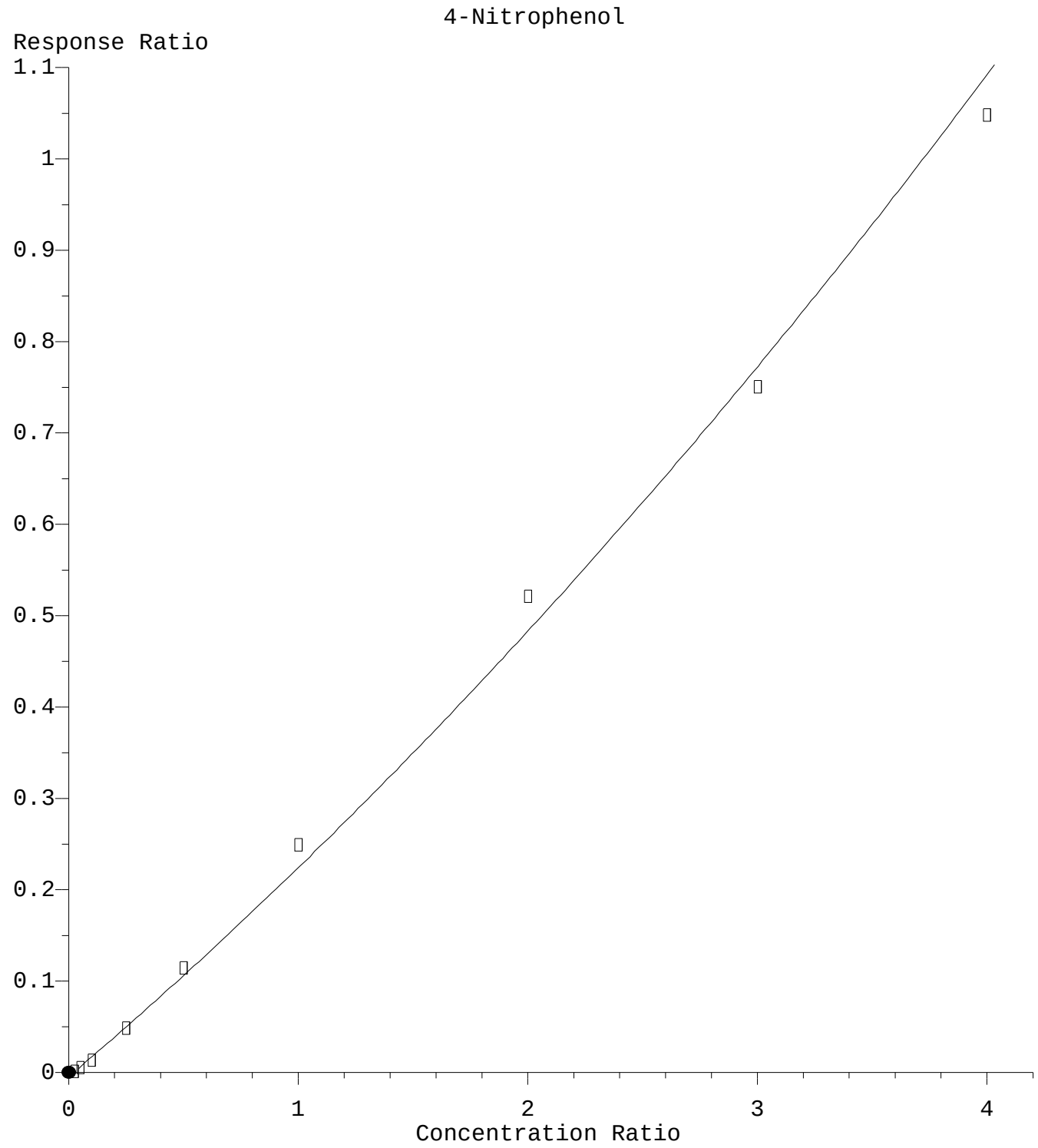
TIC: J05012011.D\data.ms

(52) 2,4-Dinitrophenol (T)

11.440min (+ 1.530) 185.26 ng/ml m

response 126

Ion	Exp%	Act%
184.00	100.00	100.00
91.00	32.60	0.00#
79.00	20.40	0.00
0.00	0.00	0.00

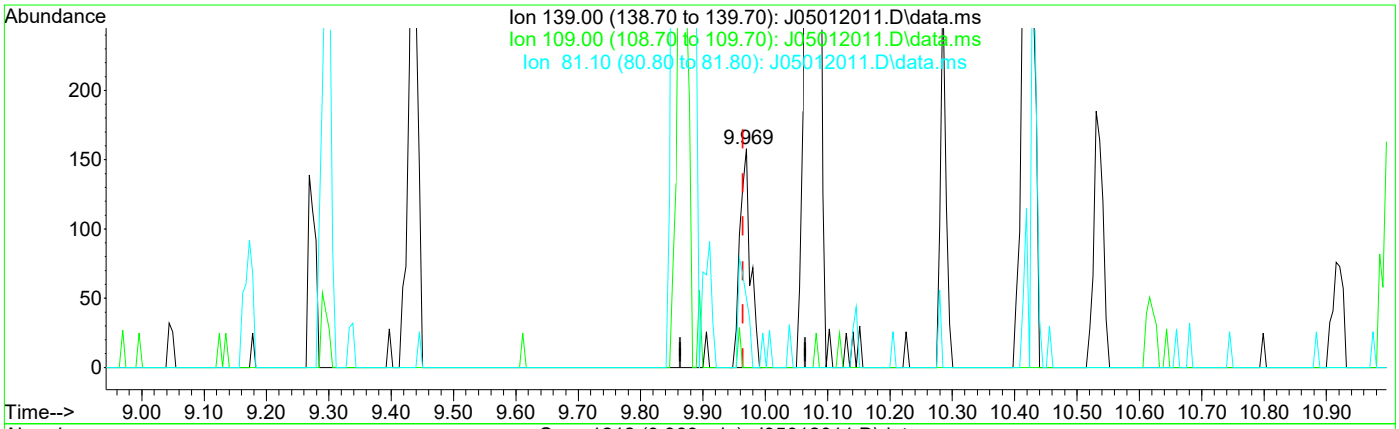


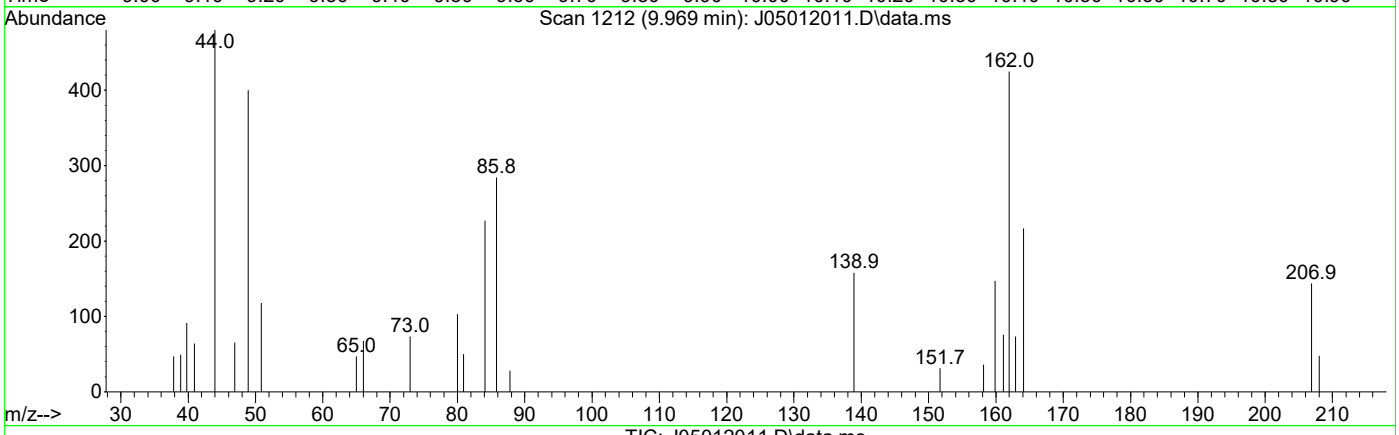
R = 1.51e-002 A*A + 2.14e-001 A - 4.52e-003
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

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Data File : J05012011.D
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Operator : JK/ AMS/ DTH
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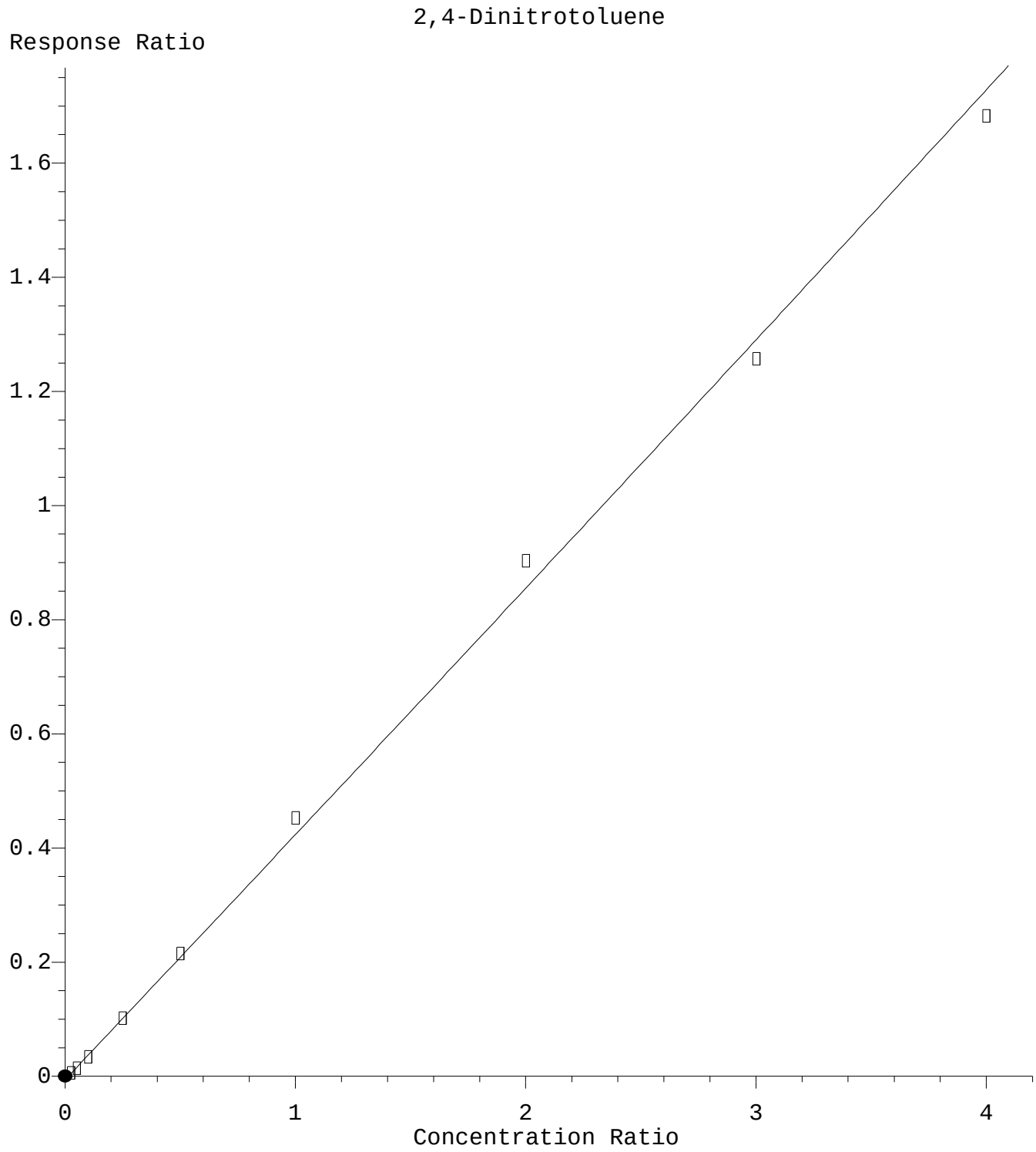
TIC: J05012011.D\data.ms

(53) 4-Nitrophenol (T)

9.969min (+ 0.005) 47.00 ng/ml

response 183

Ion	Exp%	Act%
139.00	100.00	100.00
109.00	49.30	0.00#
81.10	20.60	31.65
0.00	0.00	0.00

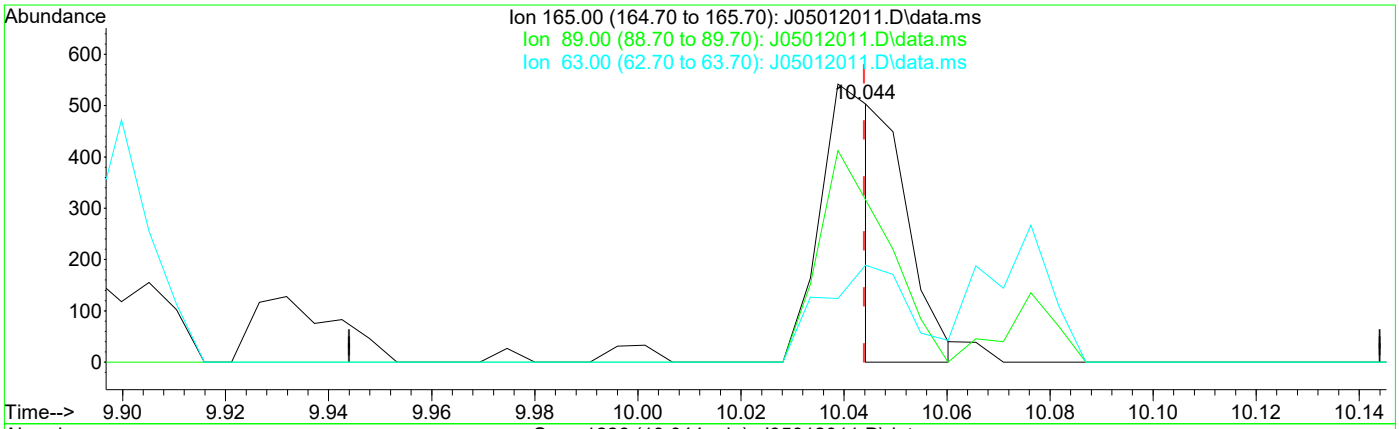


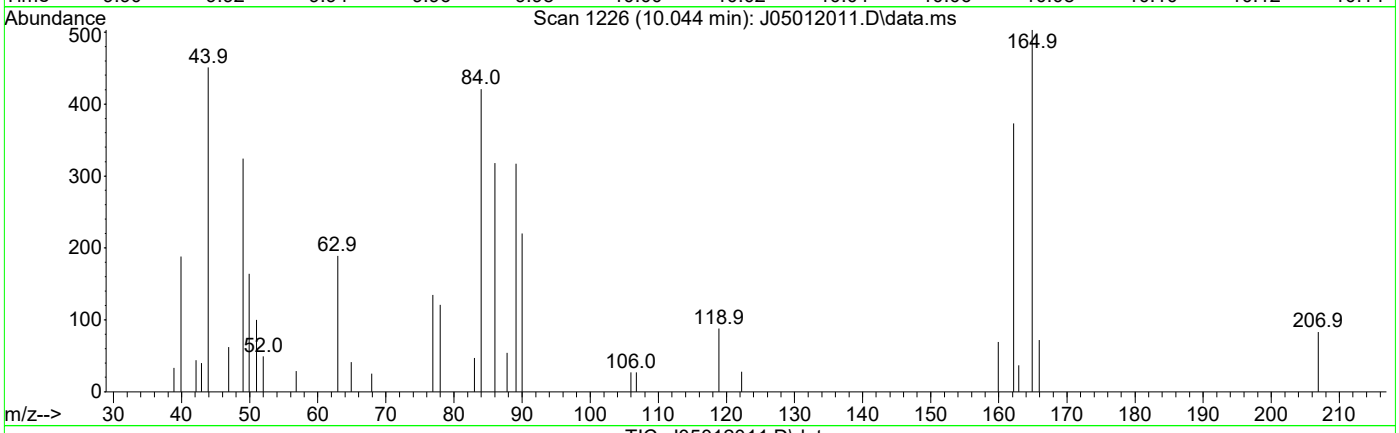
R = 1.59e-003 A*A + 4.27e-001 A - 5.62e-003
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
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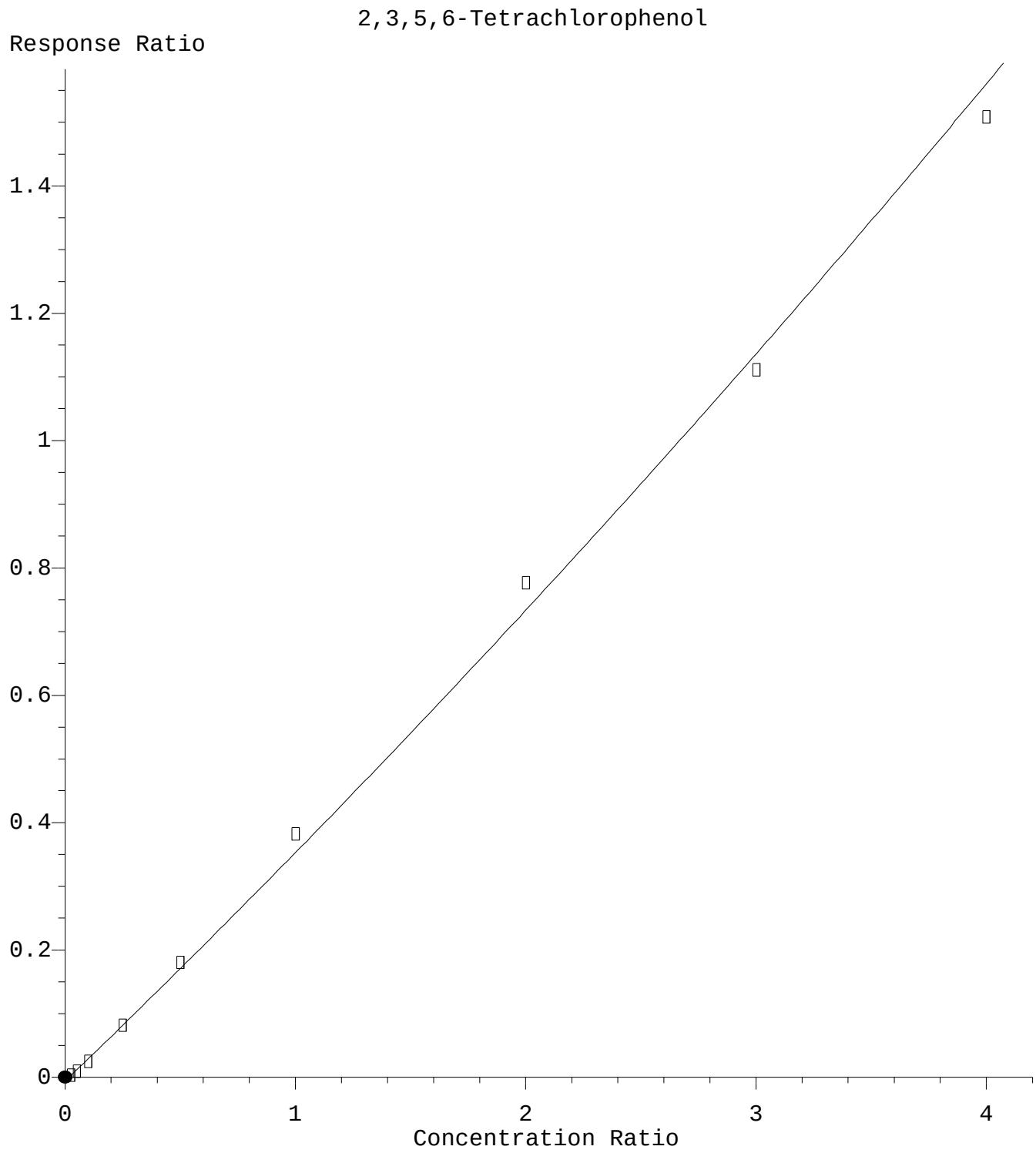
TIC: J05012011.D\data.ms

(54) 2,4-Dinitrotoluene (T)

10.044min (+ 0.000) 28.97 ng/ml m

response 202

Ion	Exp%	Act%
165.00	100.00	100.00
89.00	54.90	63.02
63.00	24.10	37.57
0.00	0.00	0.00

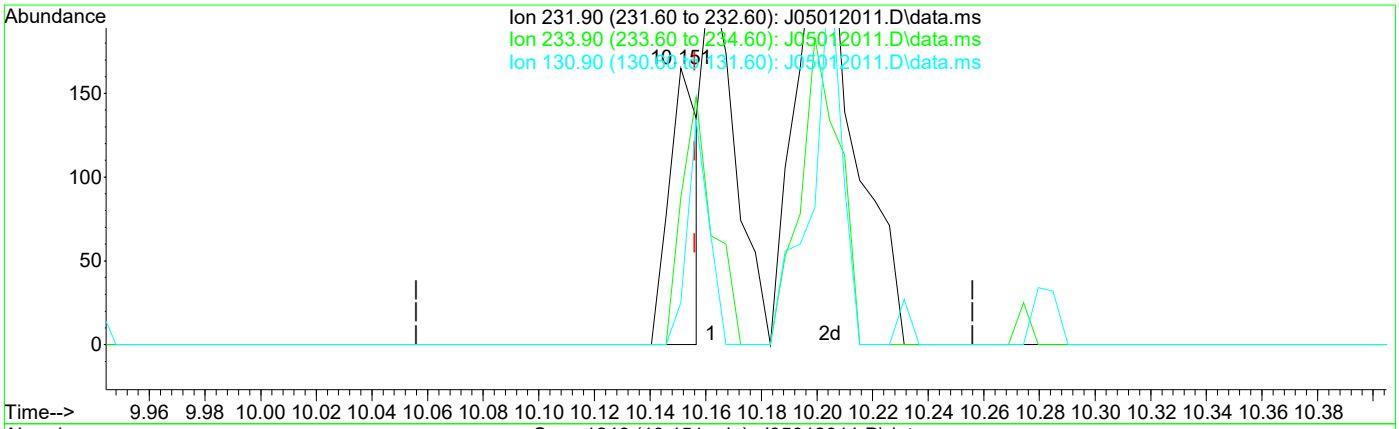


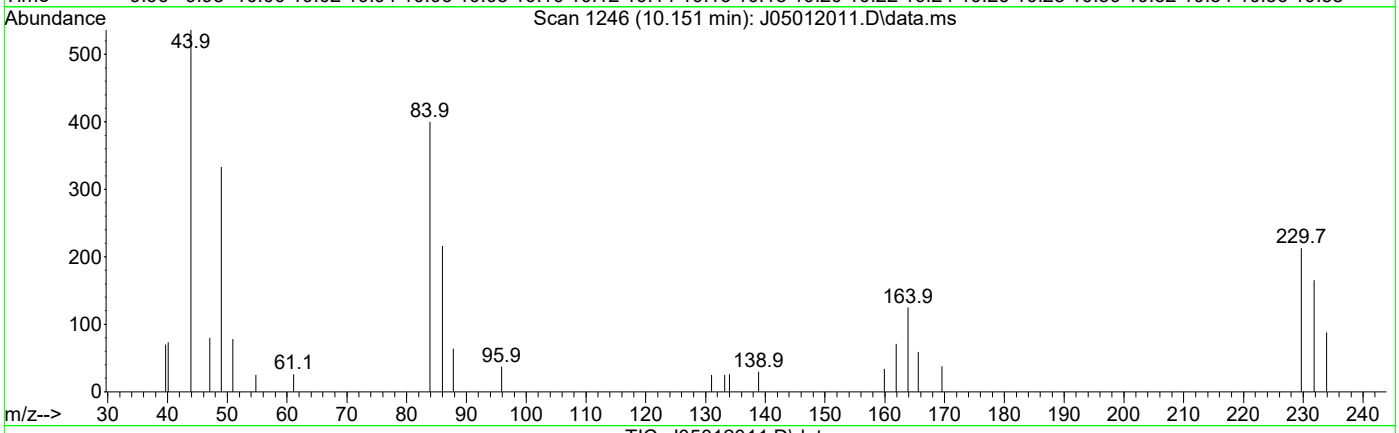
R = 1.09e-002 A*A + 3.48e-001 A - 6.14e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
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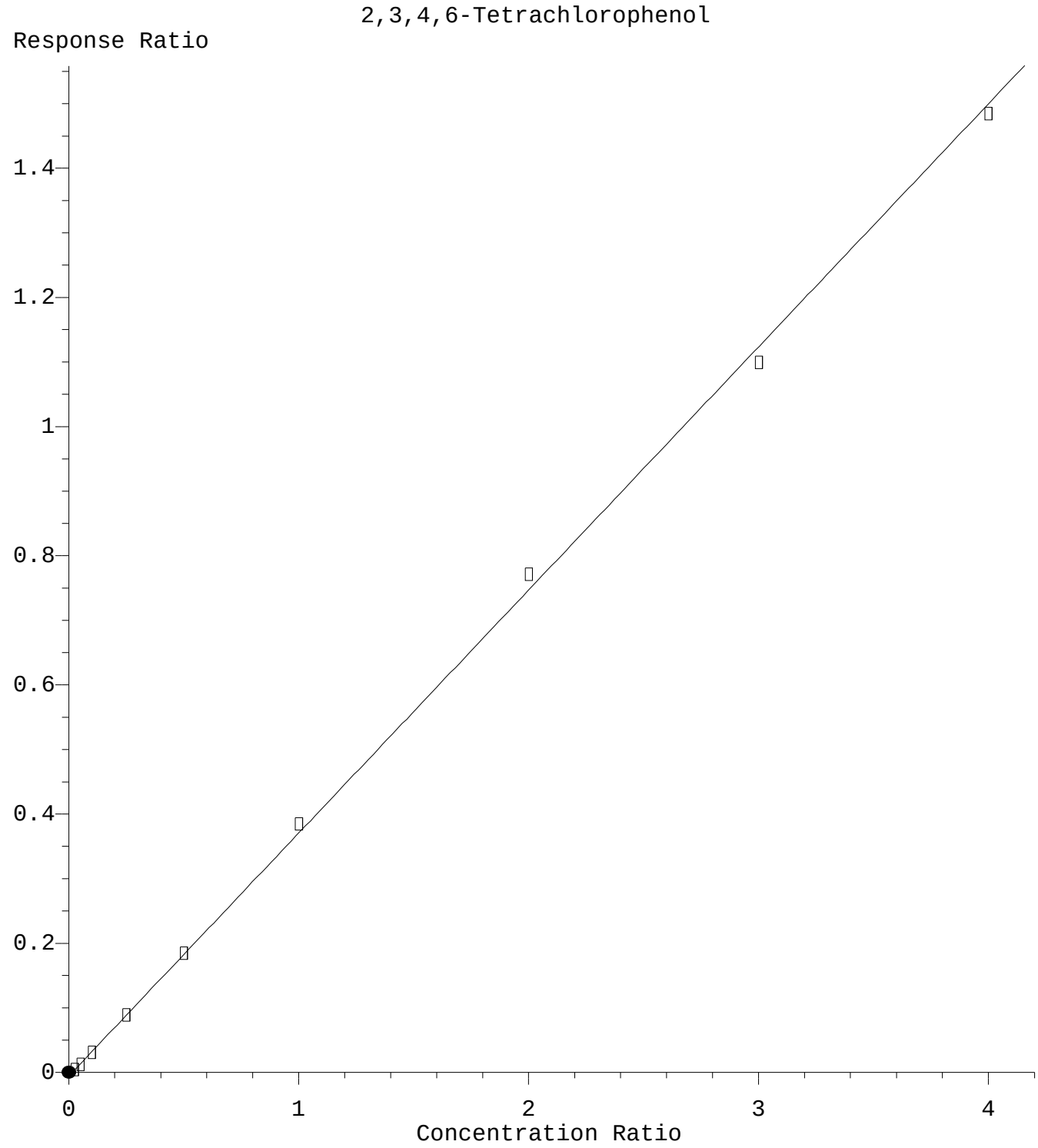
TIC: J05012011.D\data.ms

(56) 2,3,5,6-Tetrachlorophenol (T)

10.151min (-0.005) 37.19 ng/ml m

response 121

Ion	Exp%	Act%
231.90	100.00	100.00
233.90	48.50	53.33
130.90	34.40	15.15
0.00	0.00	0.00

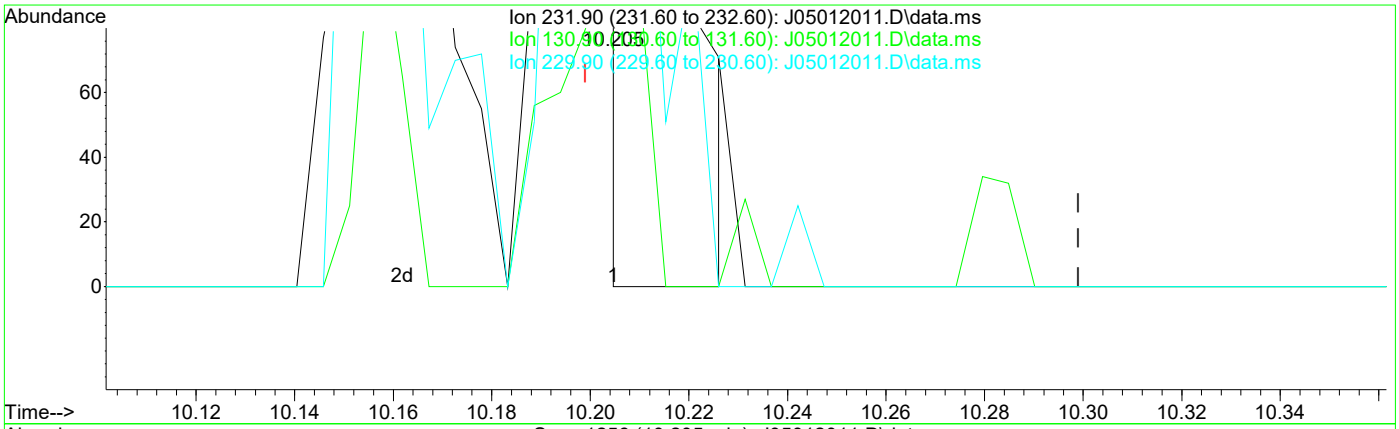


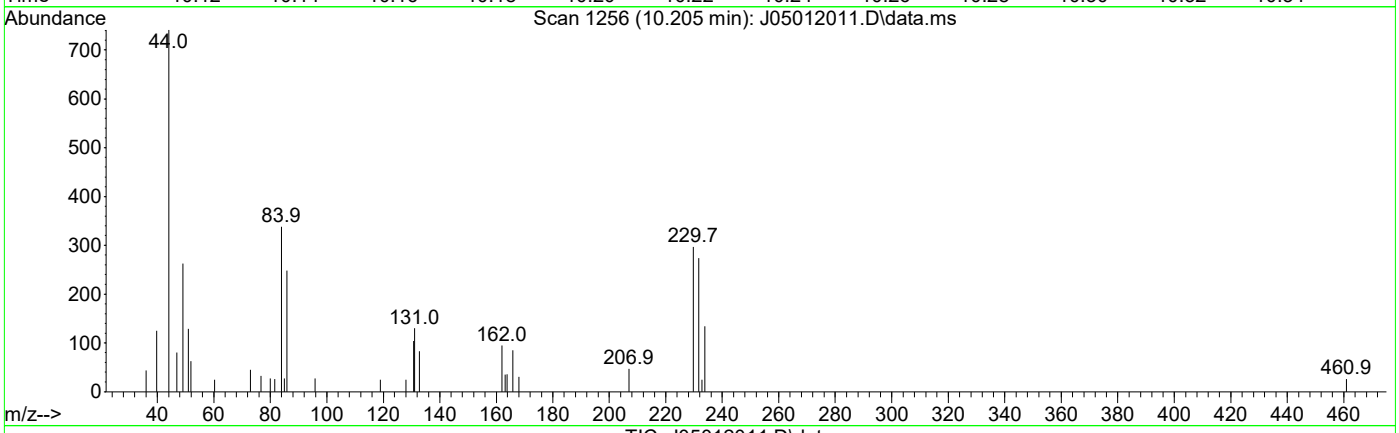
R = 7.16e-005 A*A + 3.76e-001 A - 5.49e-003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
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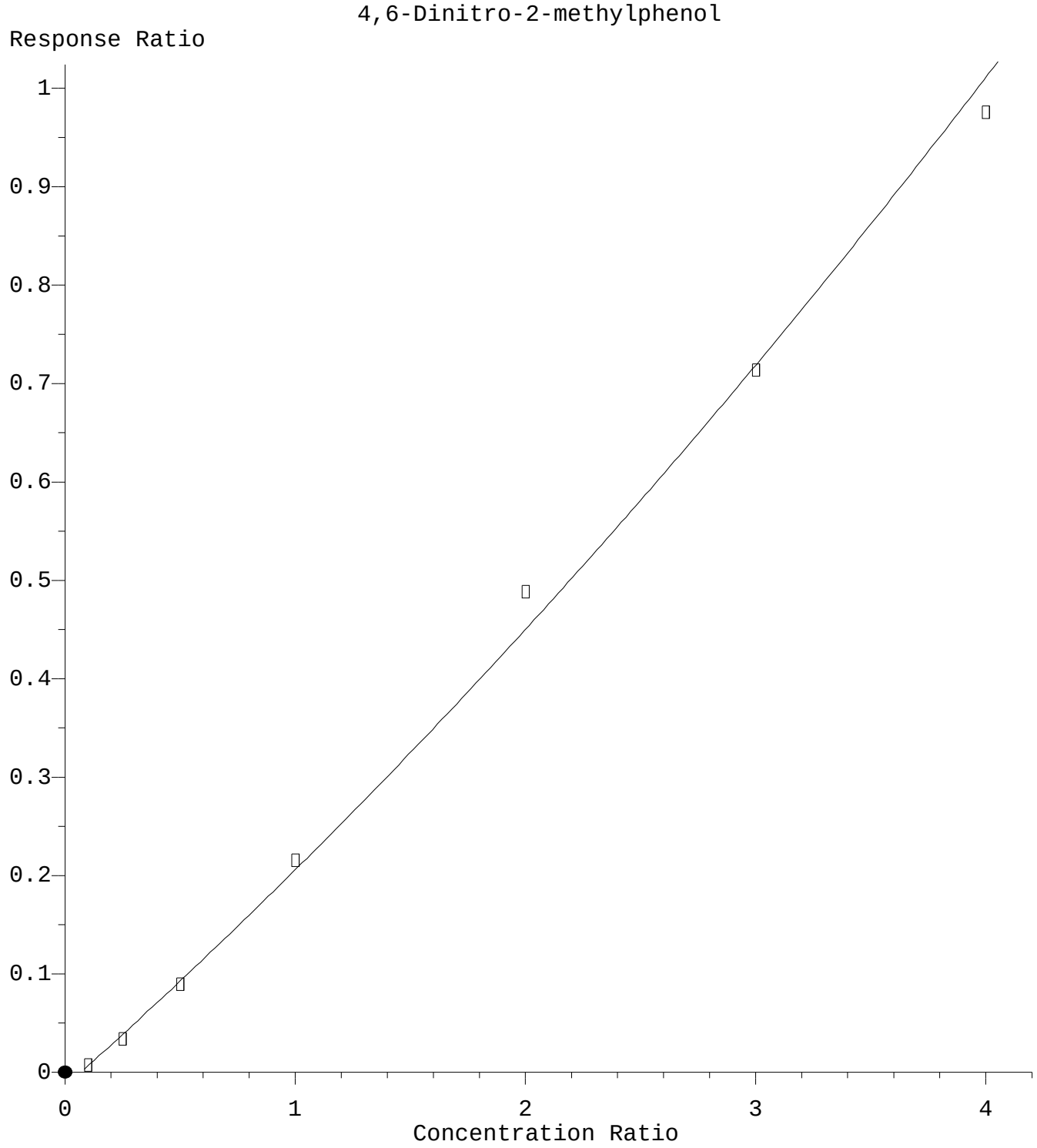
TIC: J05012011.D\data.ms

(57) 2,3,4,6-Tetrachlorophenol (T)

10.205min (+ 0.006) 31.06 ng/ml m

response 126

Ion	Exp%	Act%
231.90	100.00	100.00
130.90	39.50	47.45
229.90	76.60	108.39#
0.00	0.00	0.00

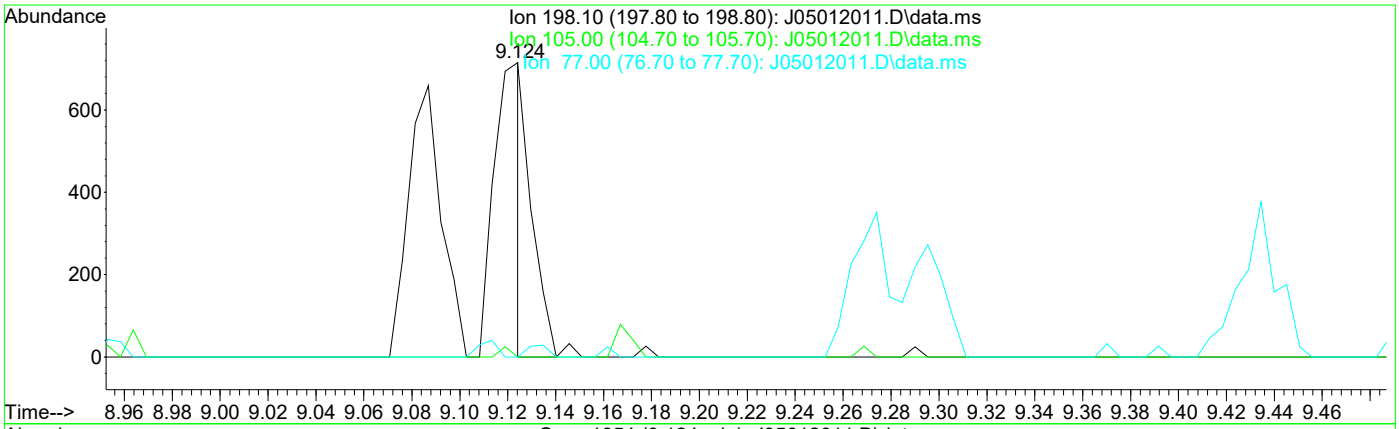


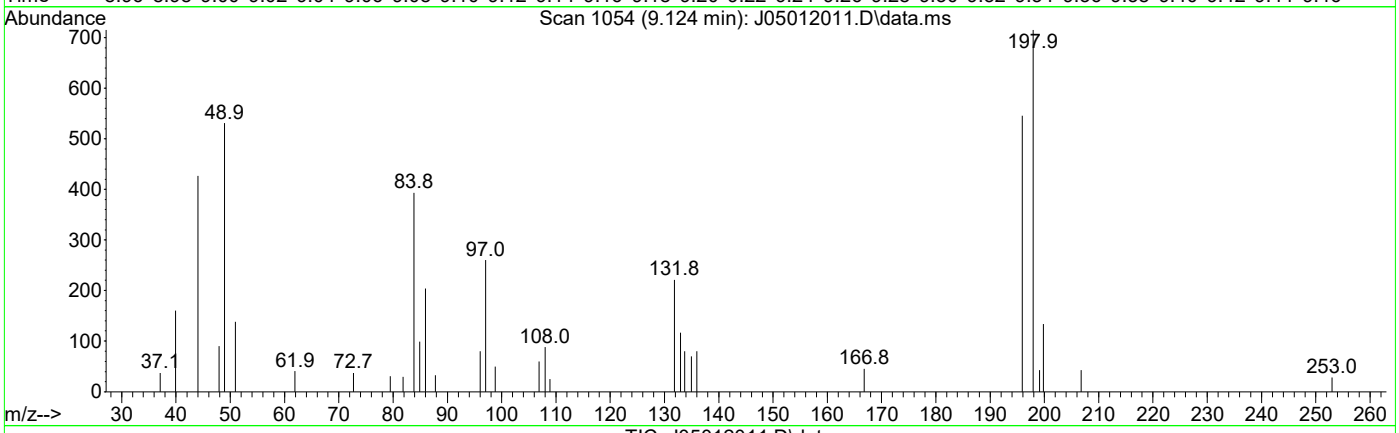
R = 1.21e-002 A*A + 2.08e-001 A - 1.42e-002
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





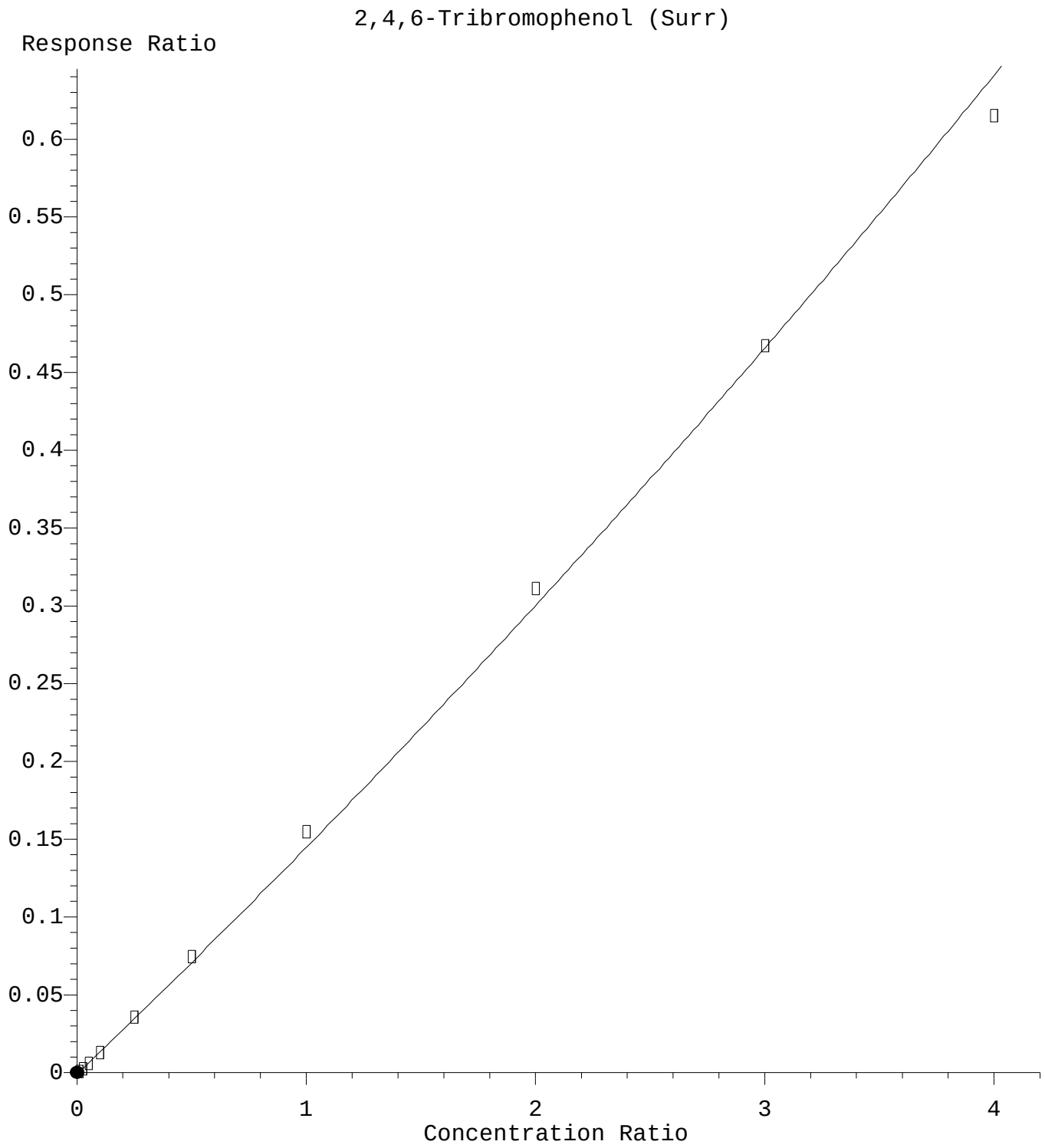
TIC: J05012011.D\data.ms

(63) 4,6-Dinitro-2-methylphenol (T)

9.124min (-1.337) 140.86 ng/ml m

response 166

Ion	Exp%	Act%
198.10	100.00	100.00
105.00	39.30	0.00#
77.00	16.30	0.00
0.00	0.00	0.00

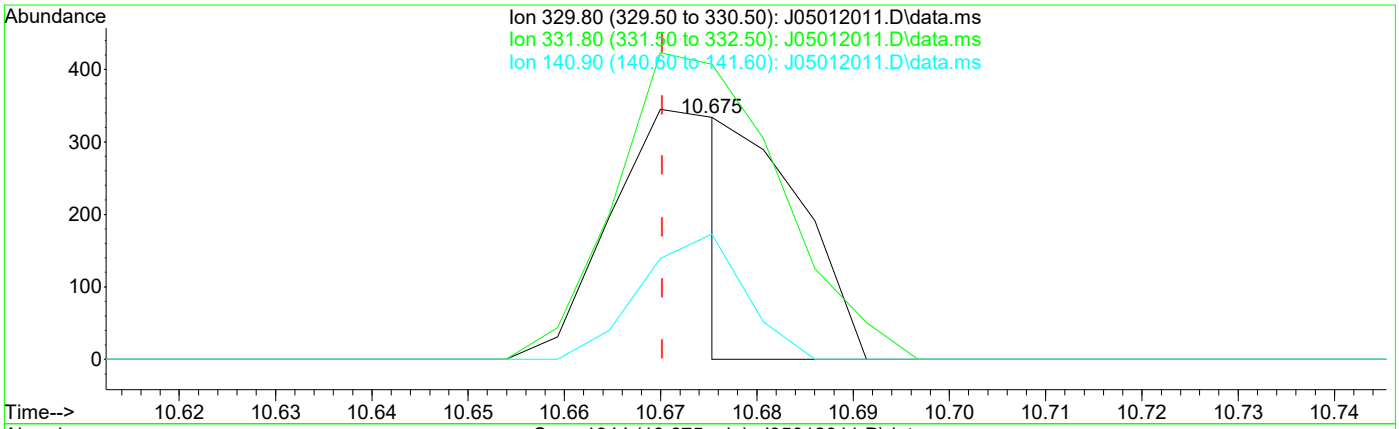


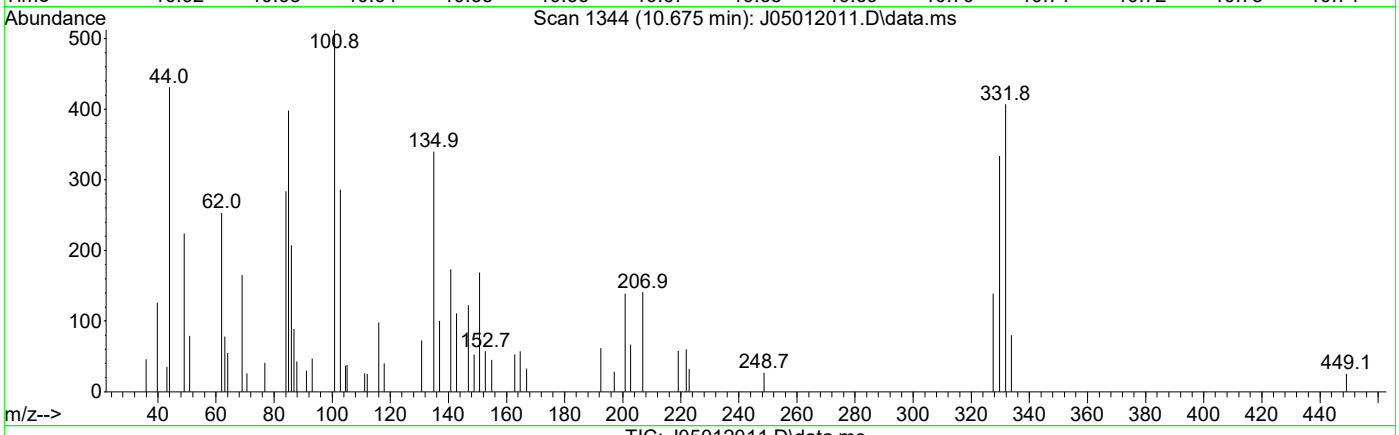
R = 4.98e-003 A*A + 1.41e-001 A - 7.51e-004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
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Quant Title : EPA 8270D: Semivolatile Organics
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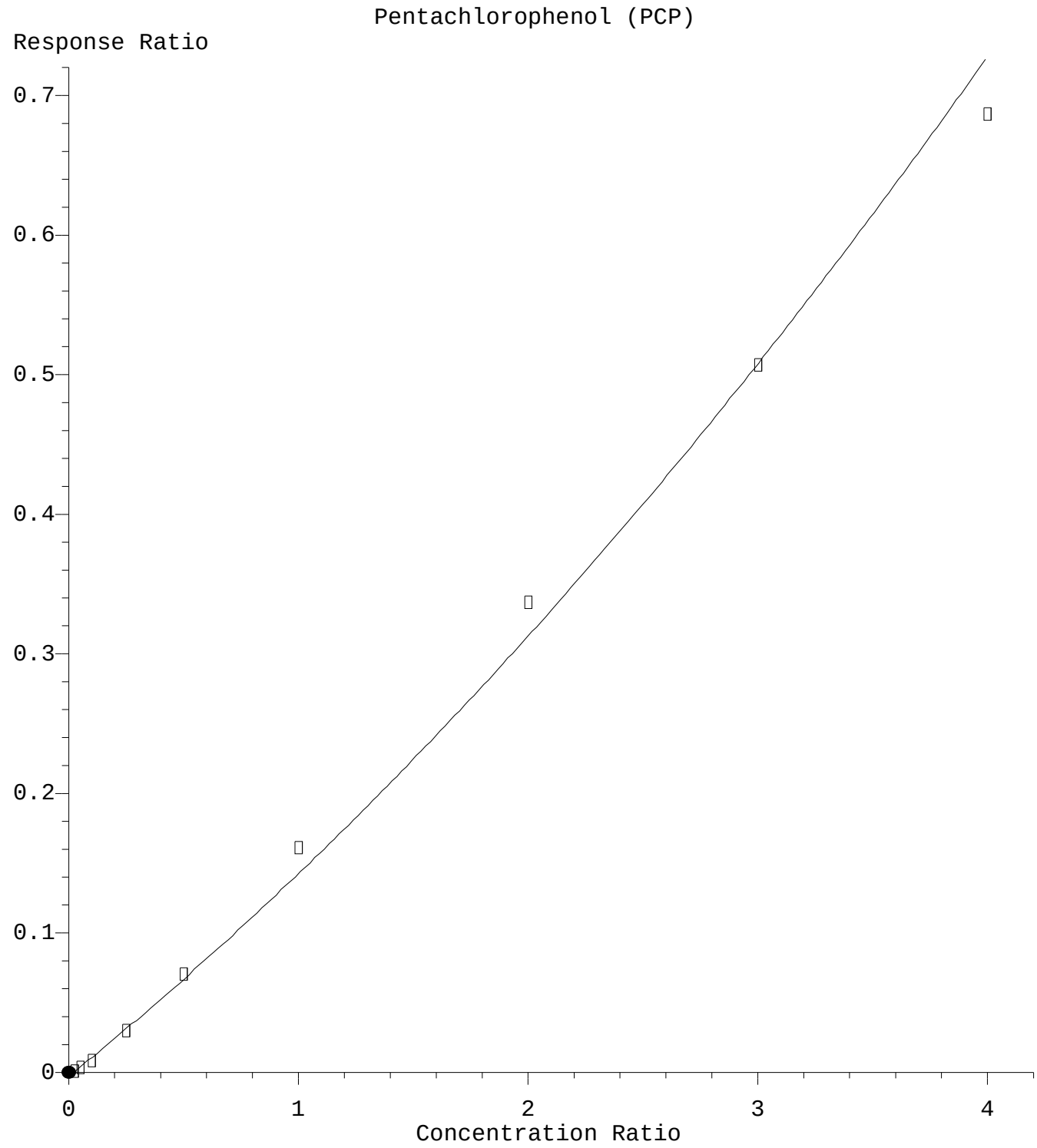
TIC: J05012011.D\data.ms

(67) 2,4,6-Tribromophenol (Surr) (S)

10.675min (+ 0.005) 14.32 ng/ml m

response 154

Ion	Exp%	Act%
329.80	100.00	100.00
331.80	99.30	121.86
140.90	29.50	51.80
0.00	0.00	0.00

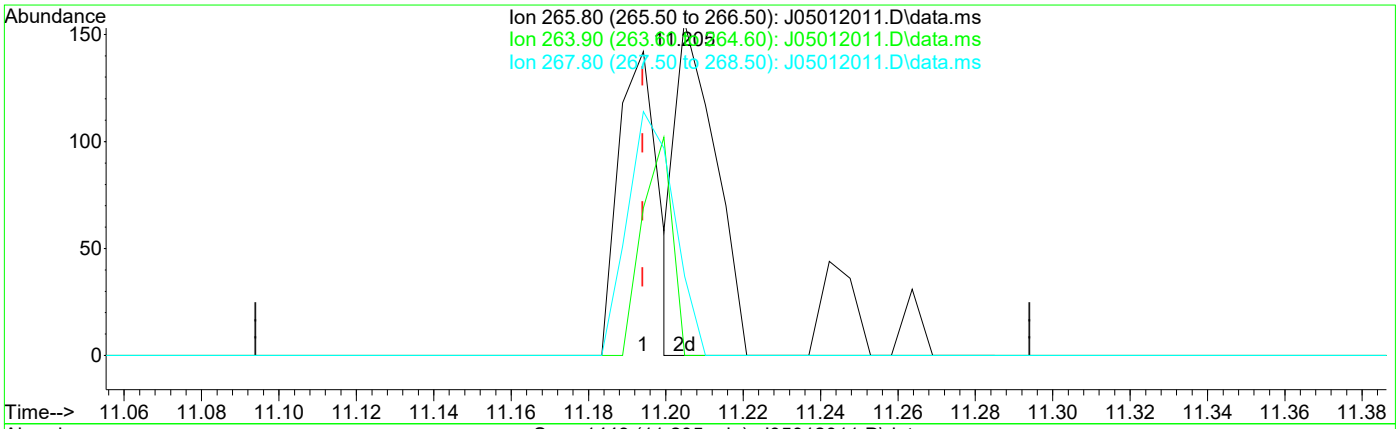


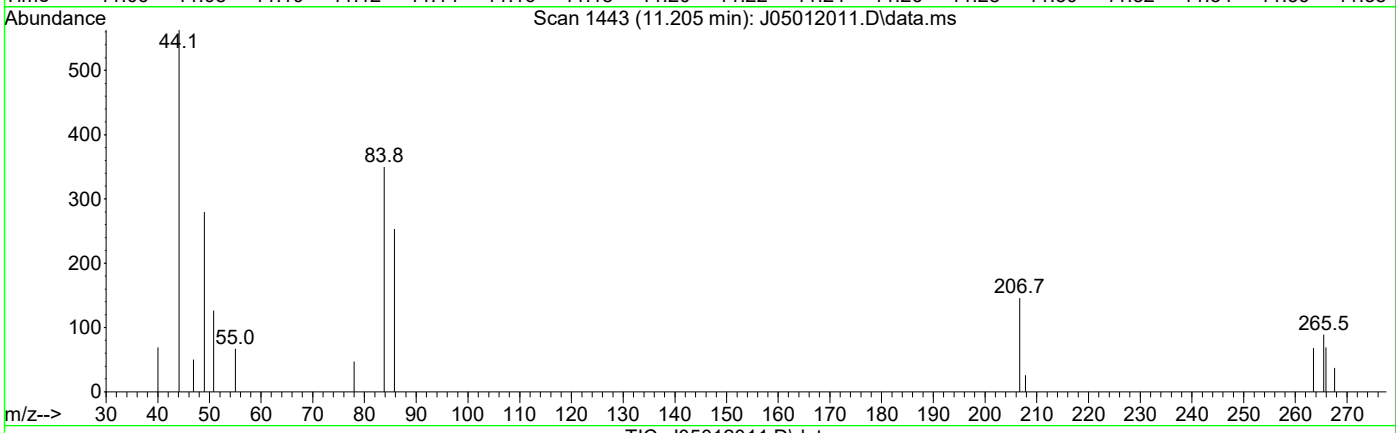
R = 1.25e-002 A*A + 1.33e-001 A - 2.60e-003
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
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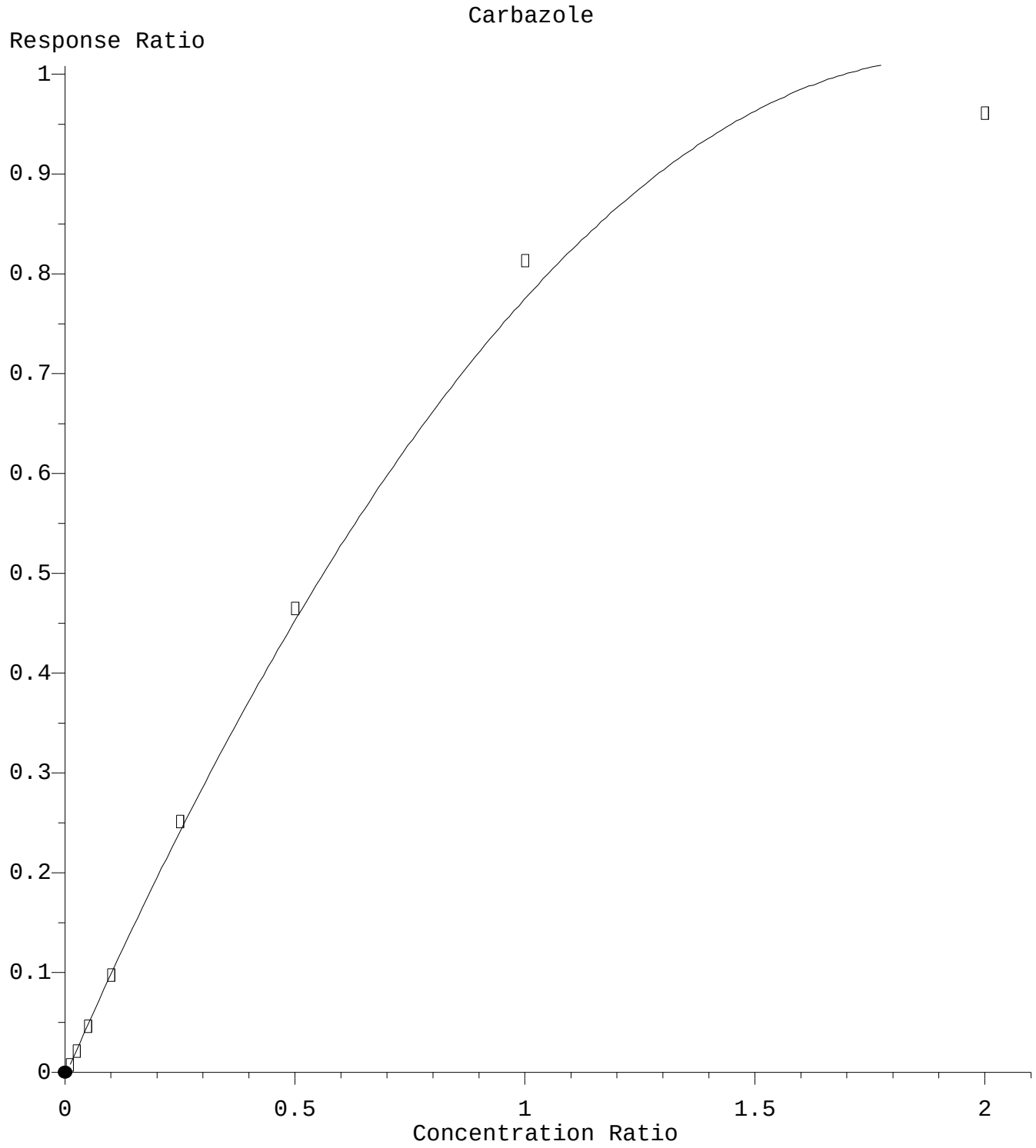
TIC: J05012011.D\data.ms

(70) Pentachlorophenol (PCP) (T)

11.205min (+ 0.011) 42.78 ng/ml m

response 146

Ion	Exp%	Act%
265.80	100.00	100.00
263.90	63.70	0.00#
267.80	64.80	41.57
0.00	0.00	0.00

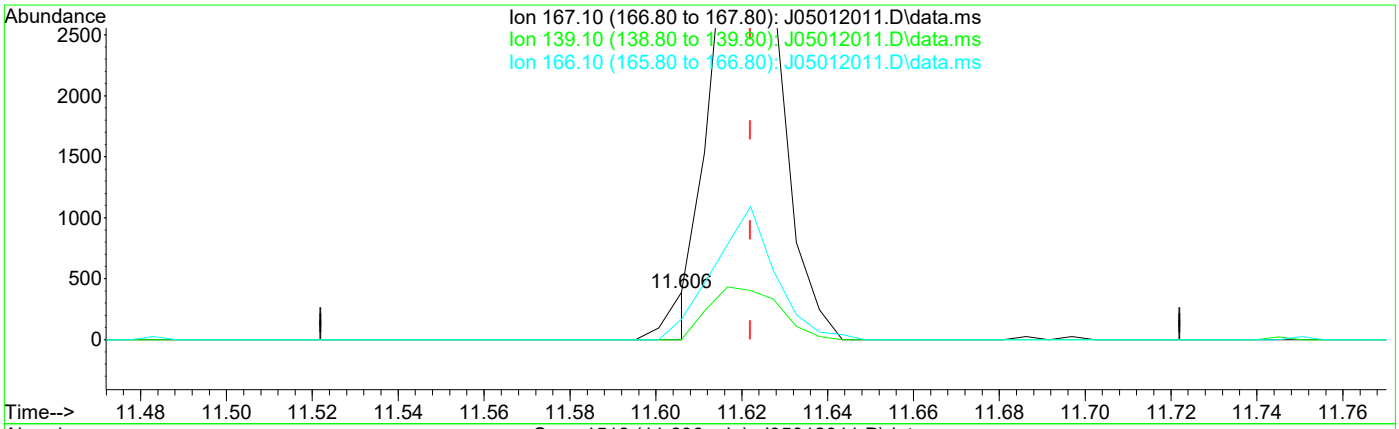


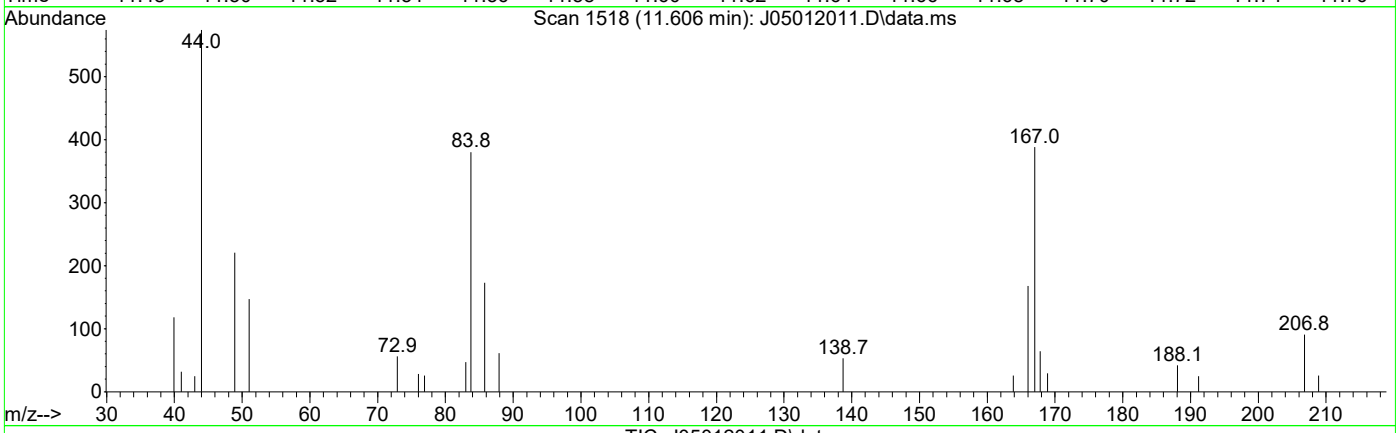
R = -2.68e-001 A*A + 1.05e+000 A - 3.36e-003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
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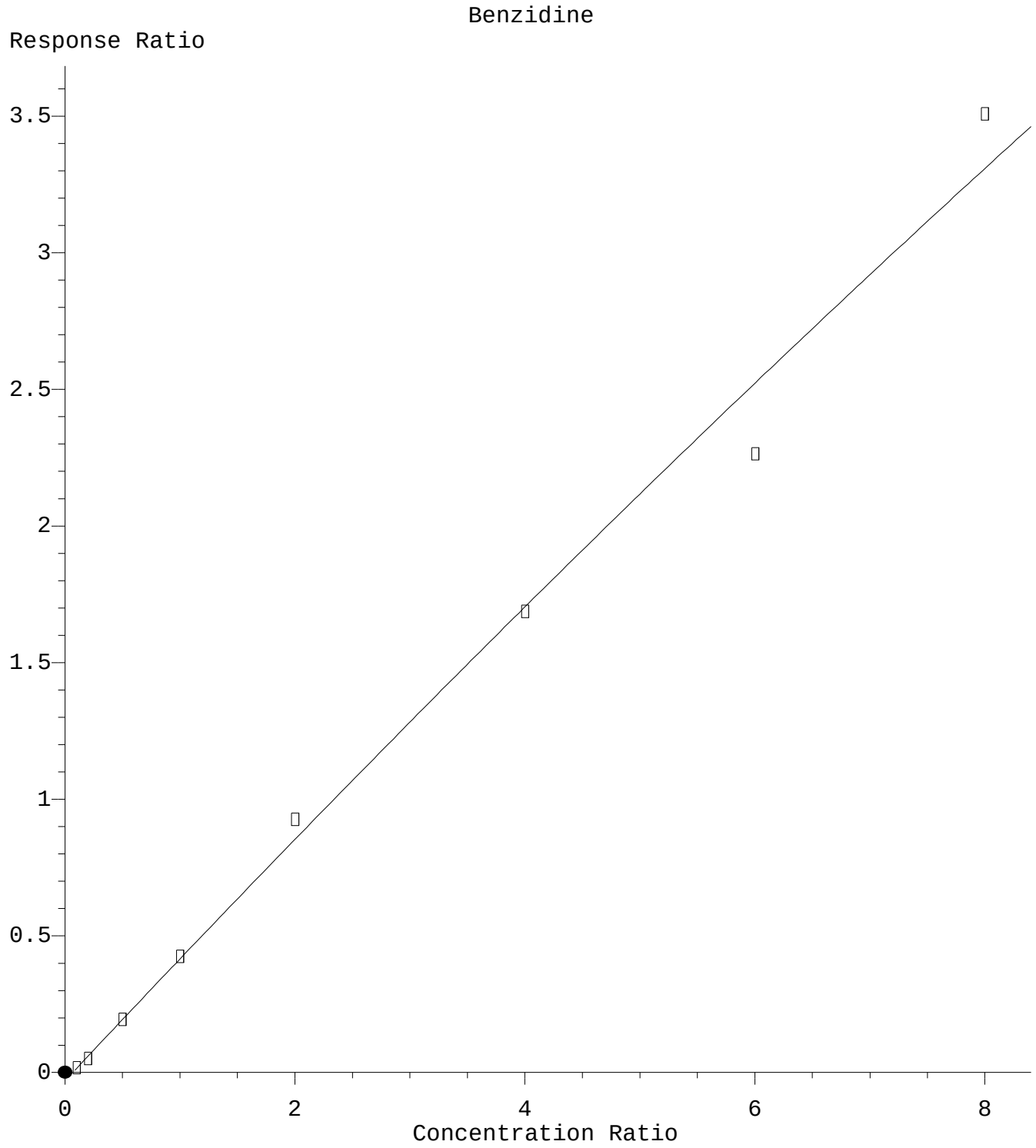
TIC: J05012011.D\data.ms

(73) Carbazole (T)

11.606min (-0.016) 6.92 ng/ml m

response 156

Ion	Exp%	Act%
167.10	100.00	100.00
139.10	11.90	0.00
166.10	20.70	43.30
0.00	0.00	0.00

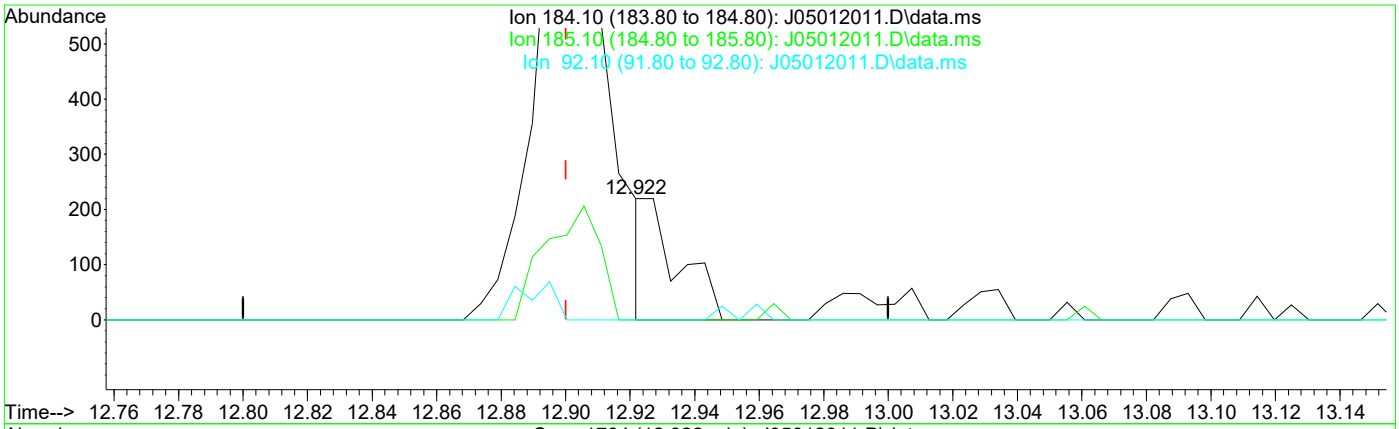


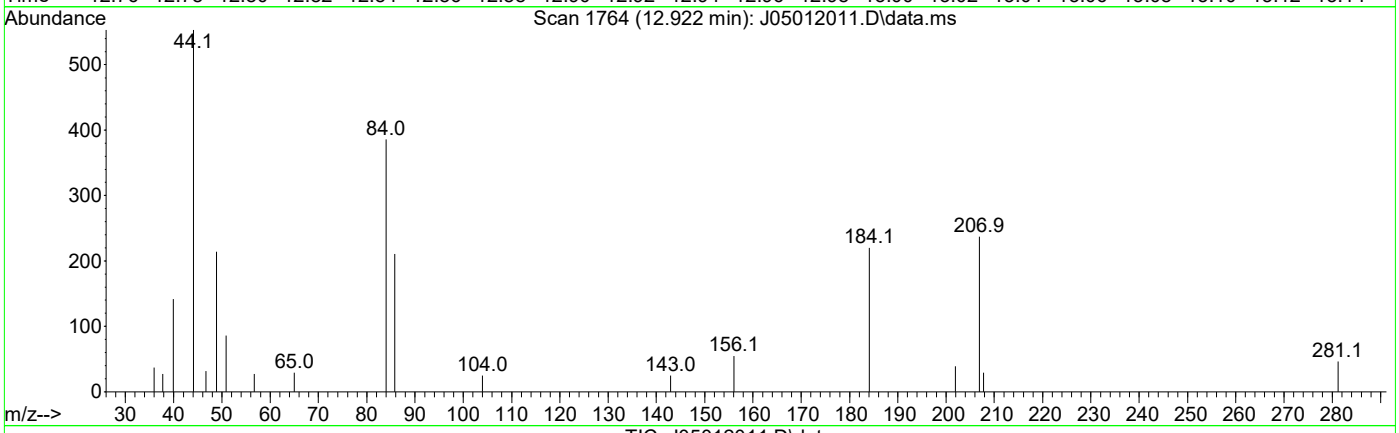
R = -4.04e-003 A*A + 4.50e-001 A - 3.03e-002
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

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Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
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QLast Update : Mon May 04 11:17:09 2020
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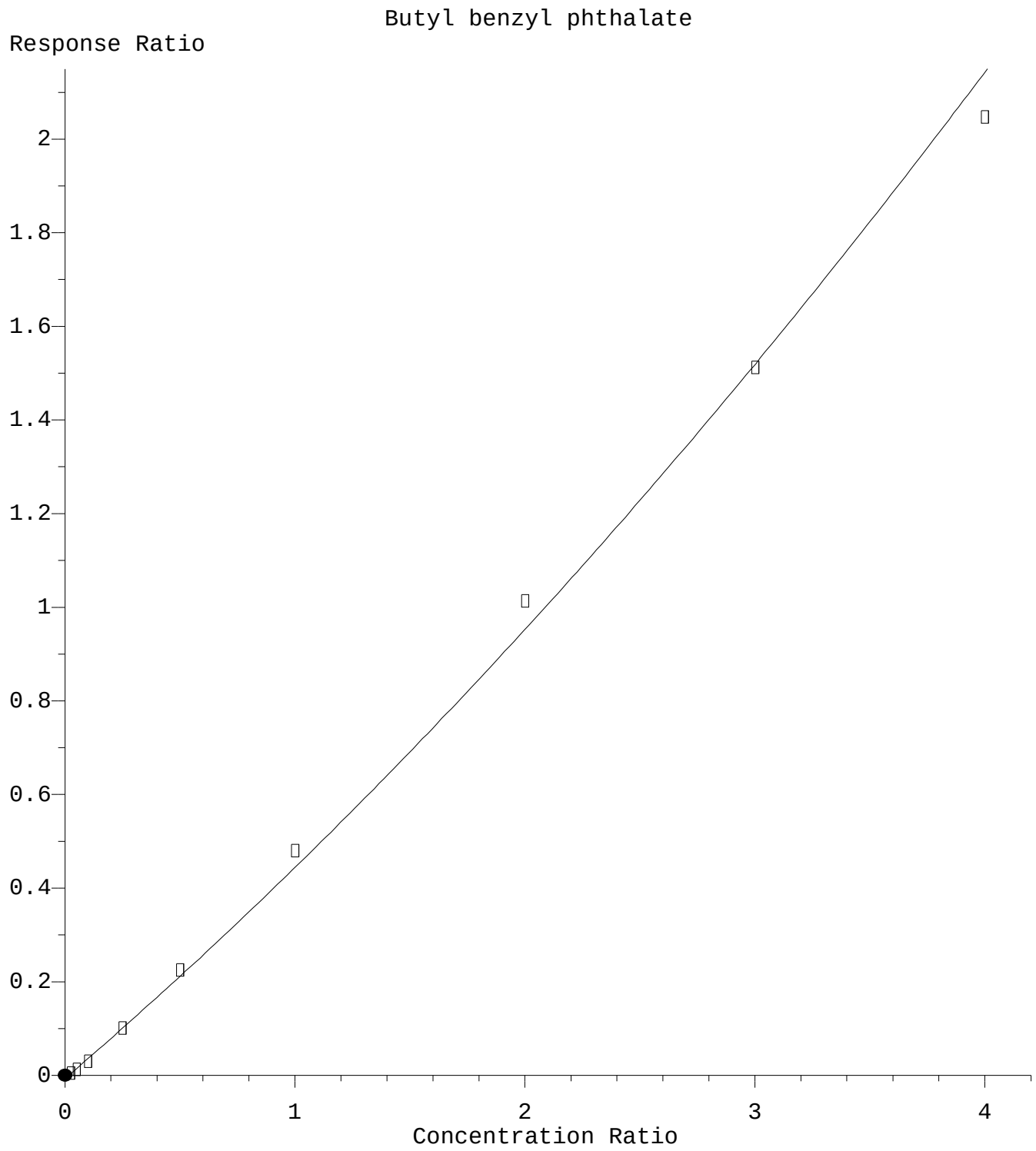
TIC: J05012011.D\data.ms

(76) Benzidine (T)

12.922min (+ 0.022) 136.01 ng/ml m

response 158

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	15.70	0.00
92.10	10.00	0.00
0.00	0.00	0.00

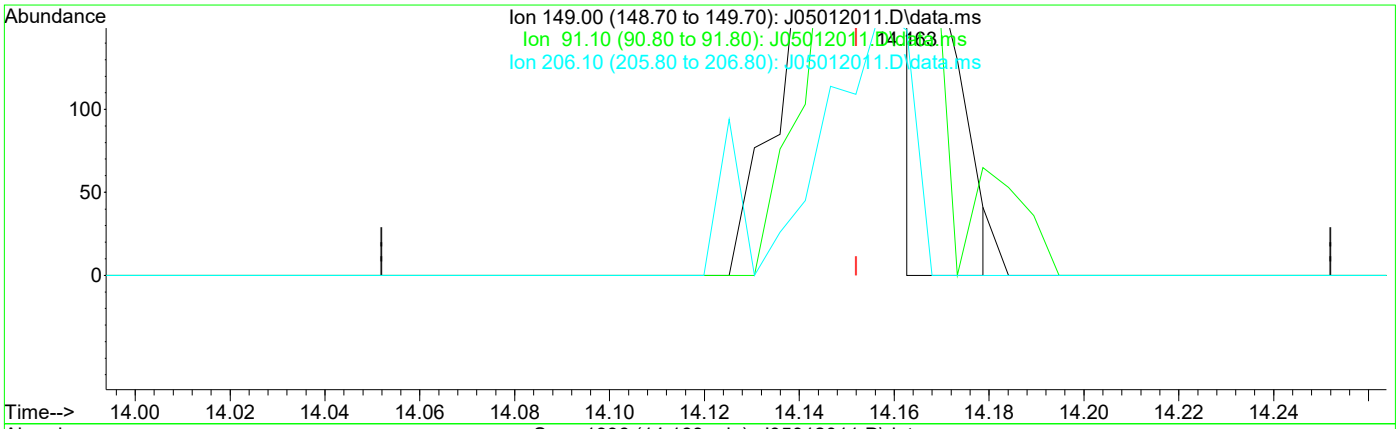


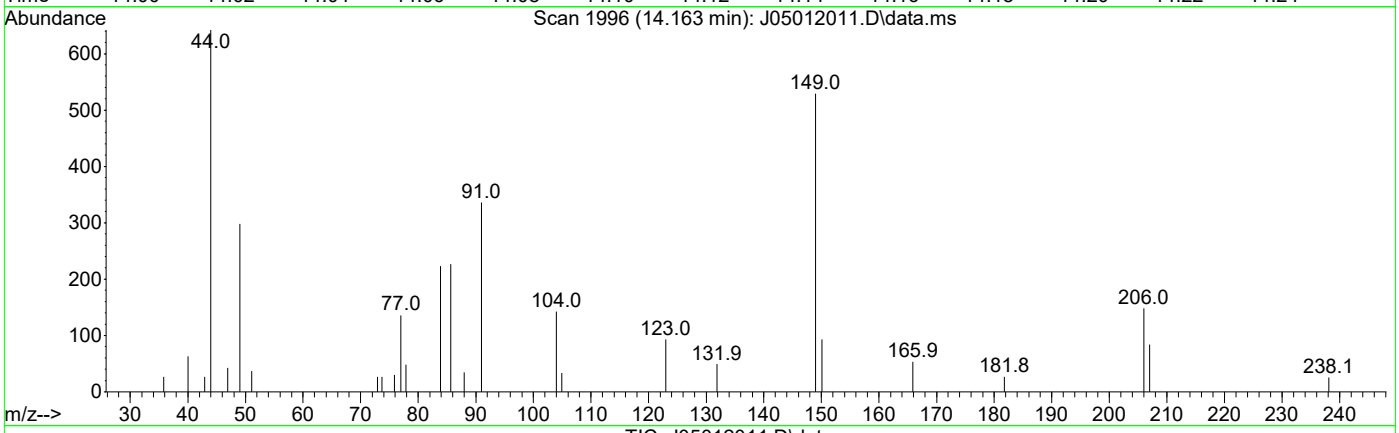
R = 2.89e-002 A*A + 4.22e-001 A - 6.40e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
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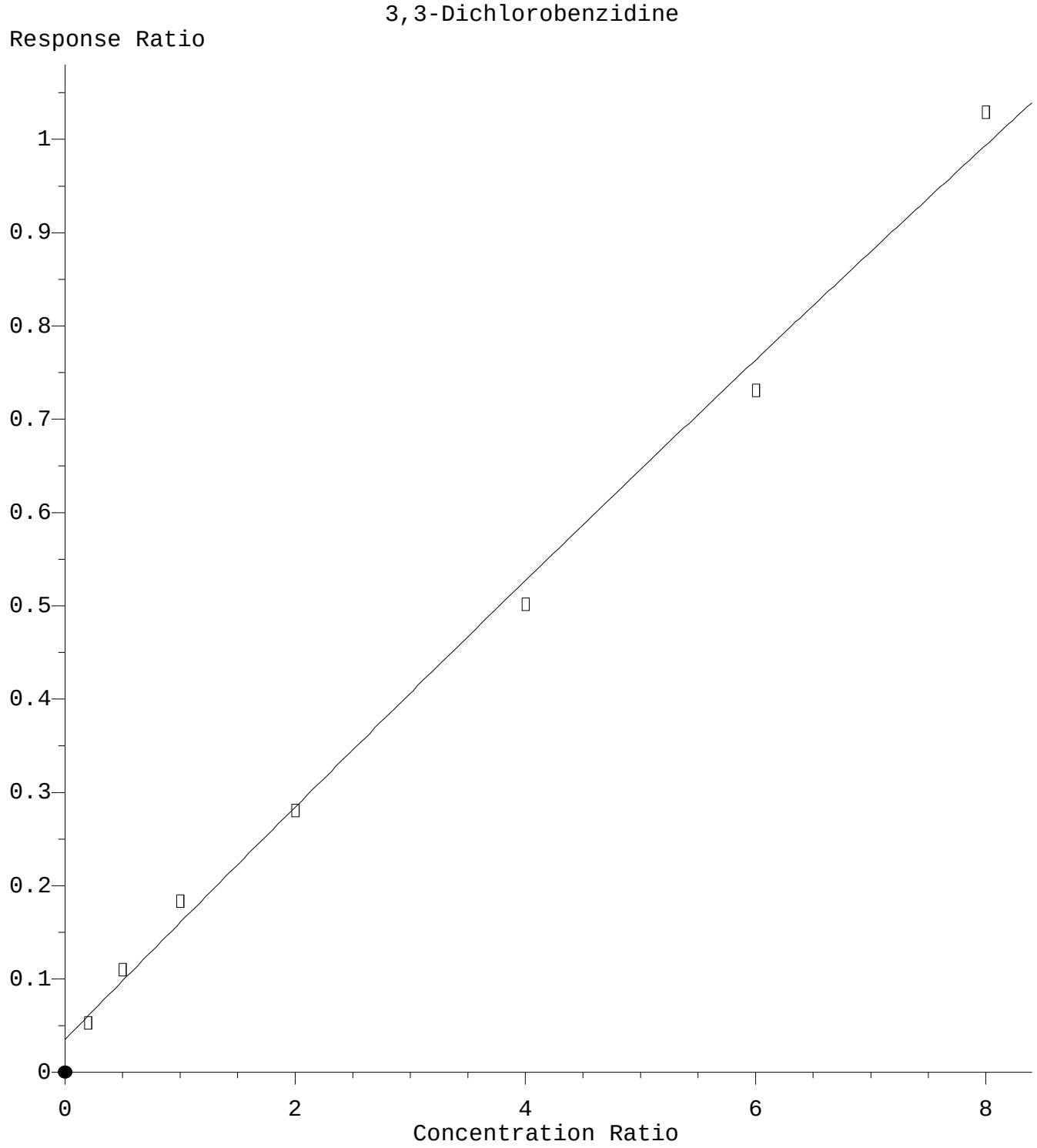
TIC: J05012011.D\data.ms

(80) Butyl benzyl phthalate (T)

14.163min (+ 0.011) 31.21 ng/ml m

response 118

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.70	63.52
206.10	18.20	27.98
0.00	0.00	0.00

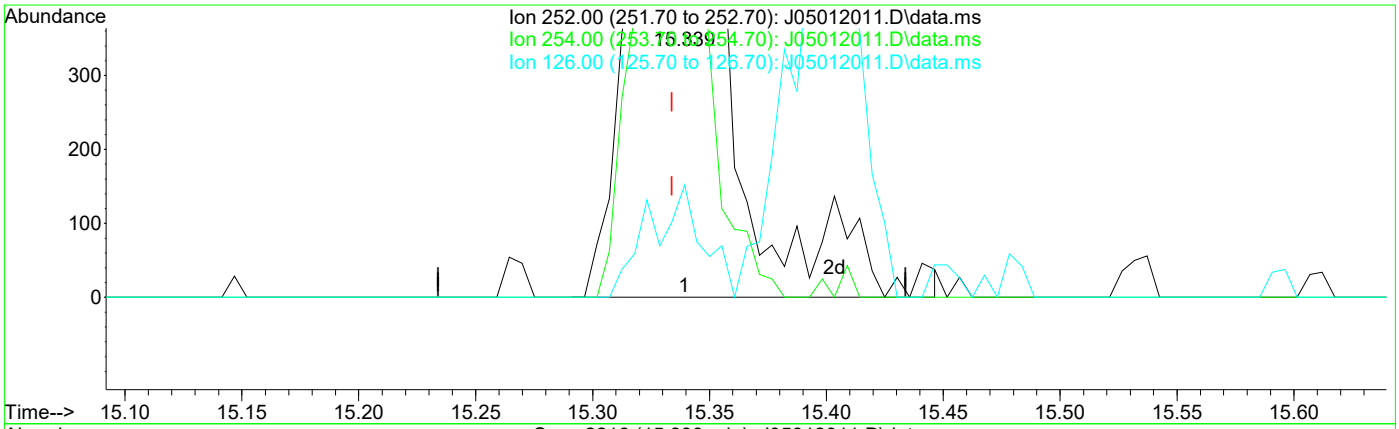


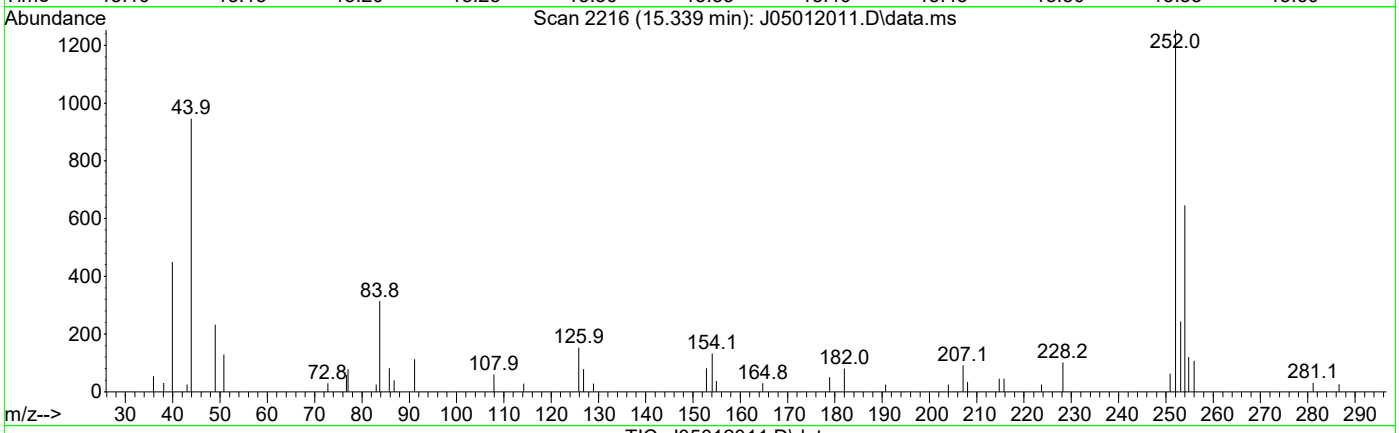
R = -7.83e-004 A*A + 1.26e-001 A + 3.53e-002
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\SV10_050120.M
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Quantitation Report (Qedit)

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Data File : J05012011.D
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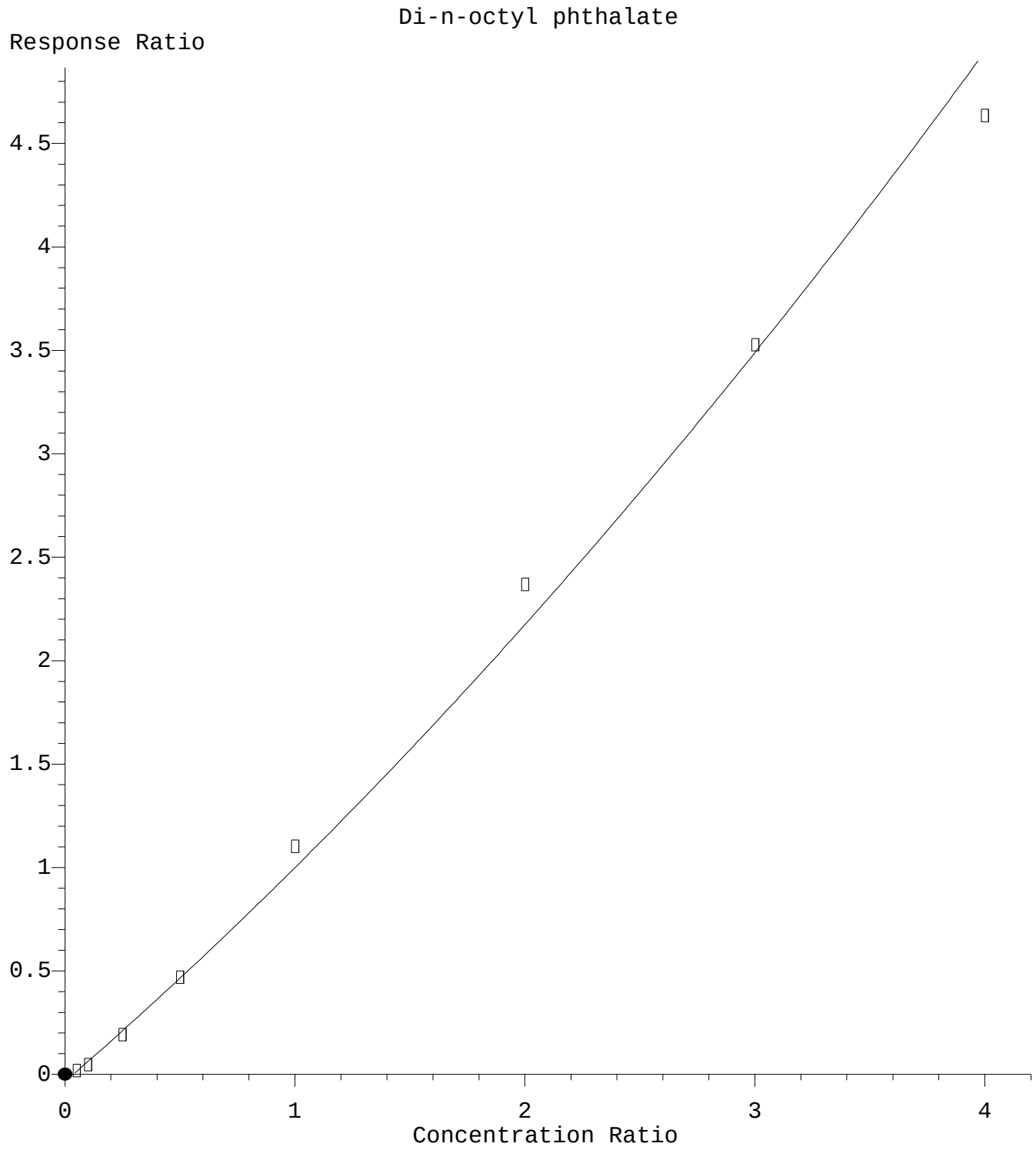
TIC: J05012011.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.339min (+ 0.005) -1.00 ng/ml m

response 2655

Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	51.56
126.00	13.30	12.13
0.00	0.00	0.00

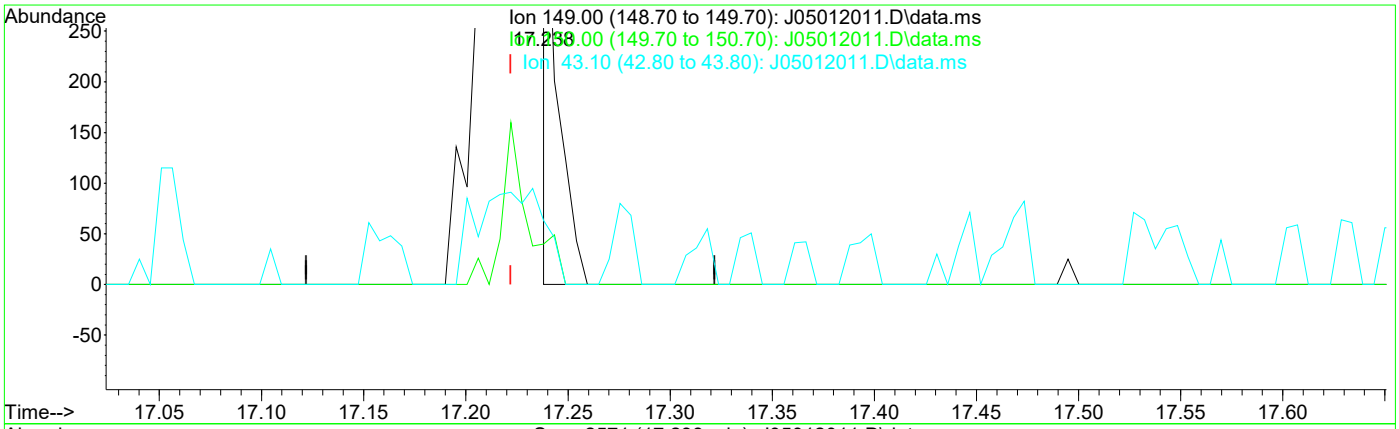


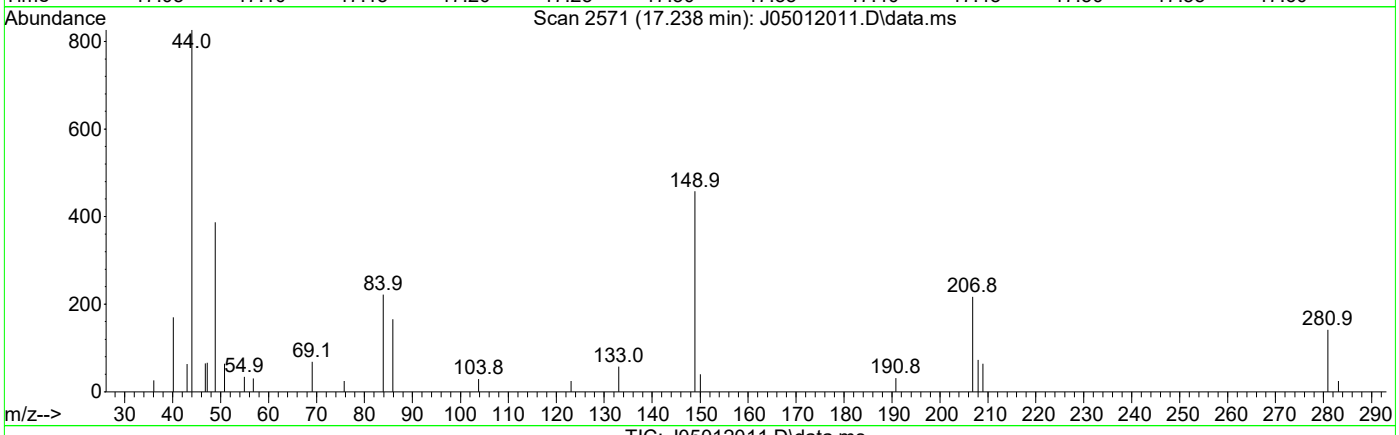
R = 7.02e-002 A*A + 9.64e-001 A - 3.48e-002
Coef of Det (r^2) = 0.990 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

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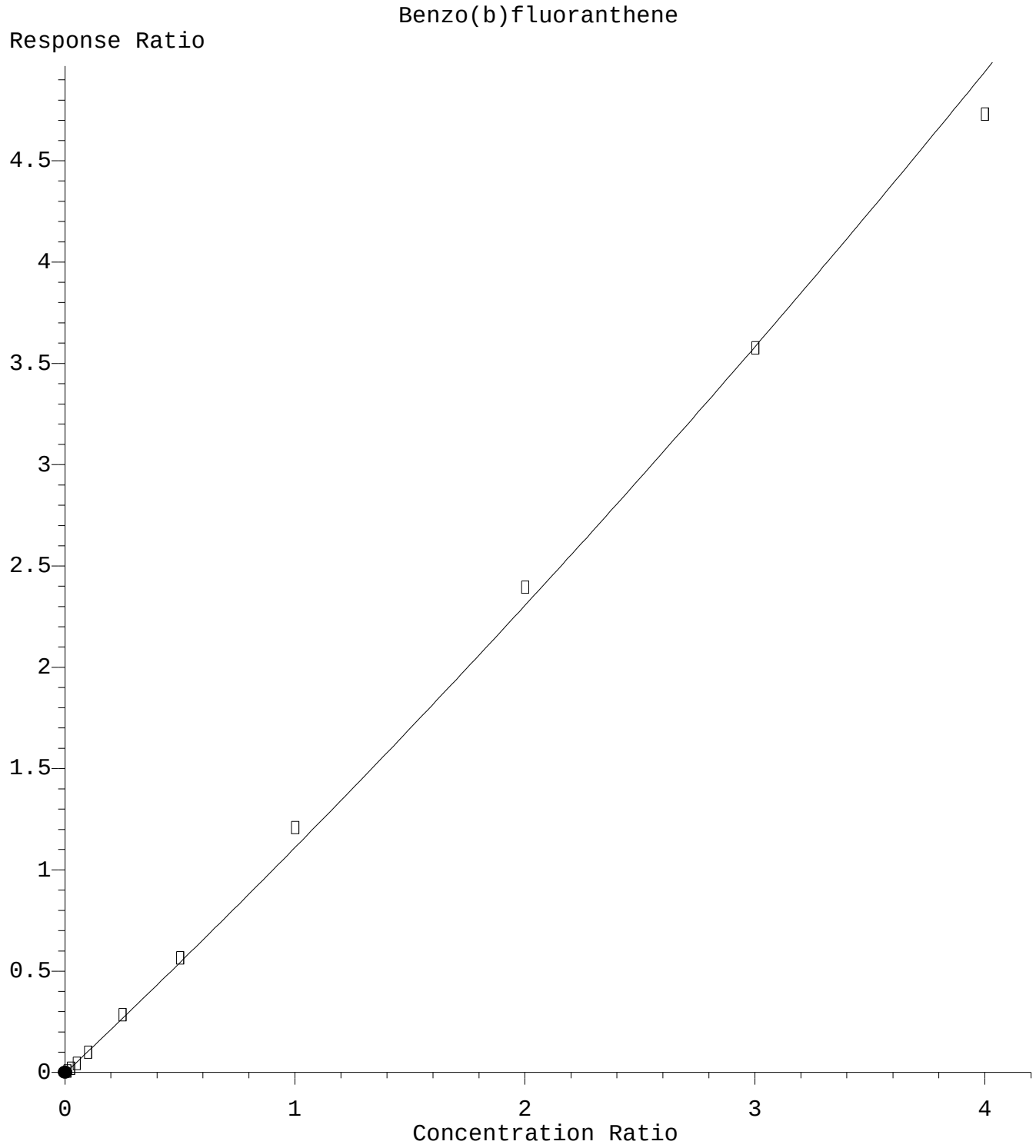
TIC: J05012011.D\data.ms

(87) Di-n-octyl phthalate (T)

17.238min (+ 0.016) 72.45 ng/ml m

response 118

Ion	Exp%	Act%
149.00	100.00	100.00
150.00	9.70	8.73
43.10	4.60	13.76
0.00	0.00	0.00

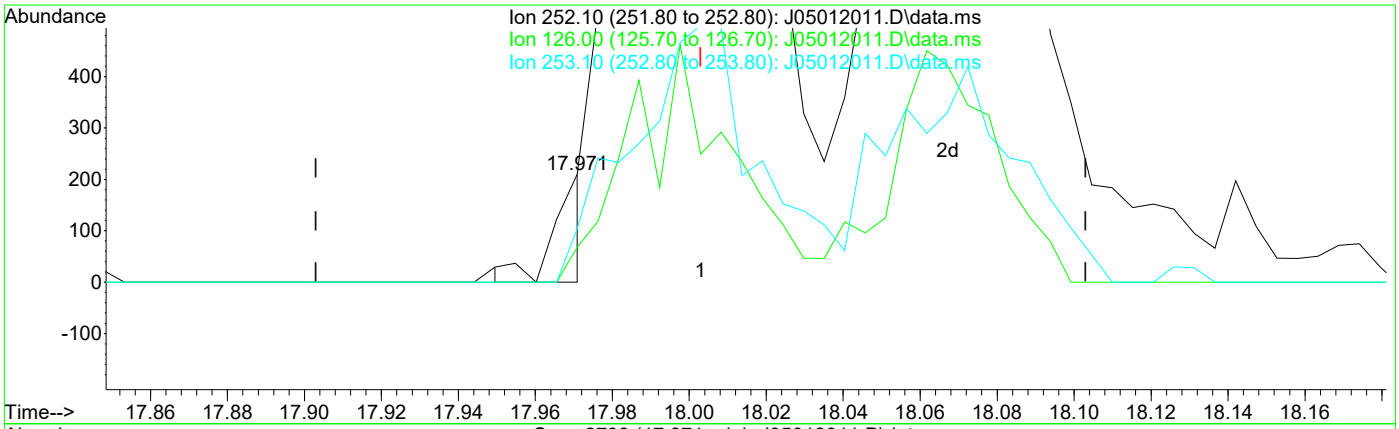


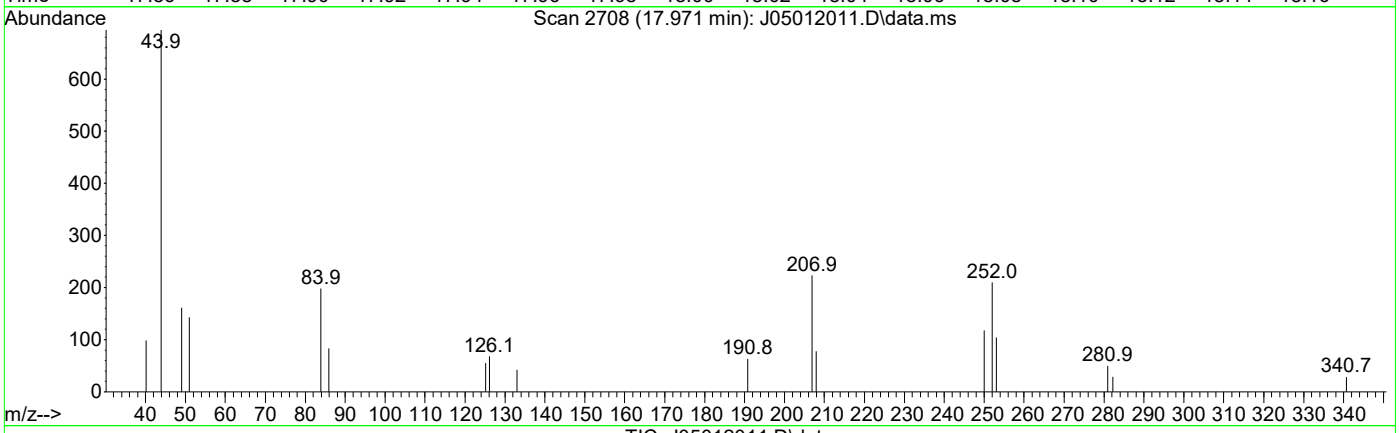
R = 4.07e-002 A*A + 1.07e+000 A - 4.38e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
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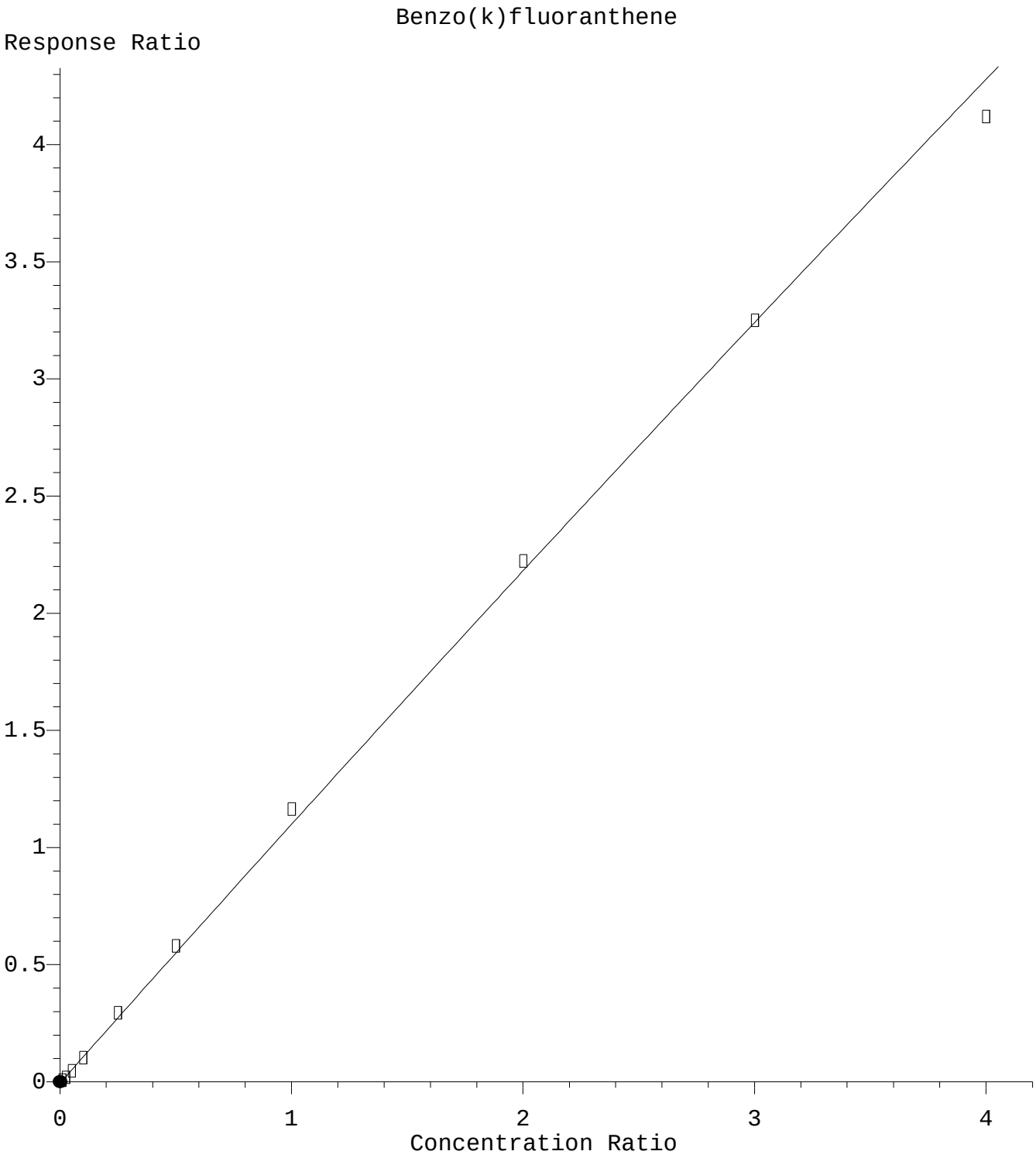
TIC: J05012011.D\data.ms

(88) Benzo(b)fluoranthene (T)

17.971min (-0.032) 8.50 ng/ml m

response 119

Ion	Exp%	Act%
252.10	100.00	100.00
126.00	16.20	32.38
253.10	22.30	49.52
0.00	0.00	0.00

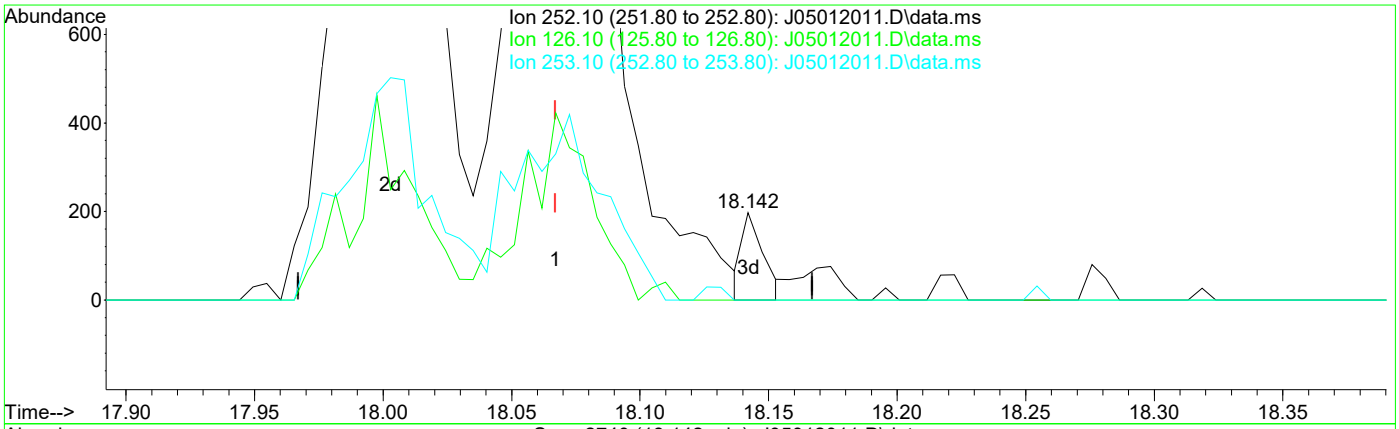


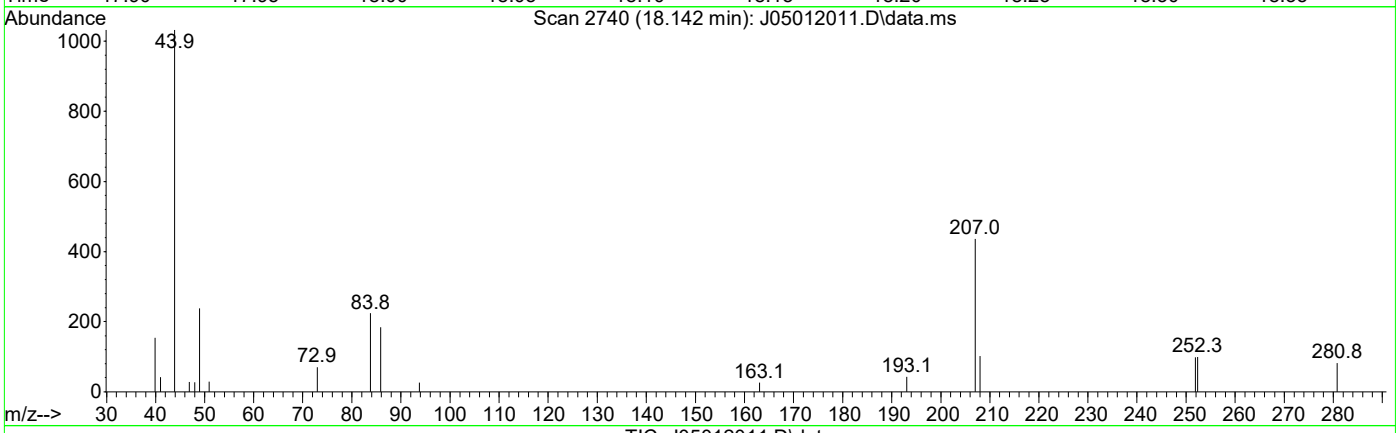
R = -1.10e-002 A*A + 1.12e+000 A - 5.09e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
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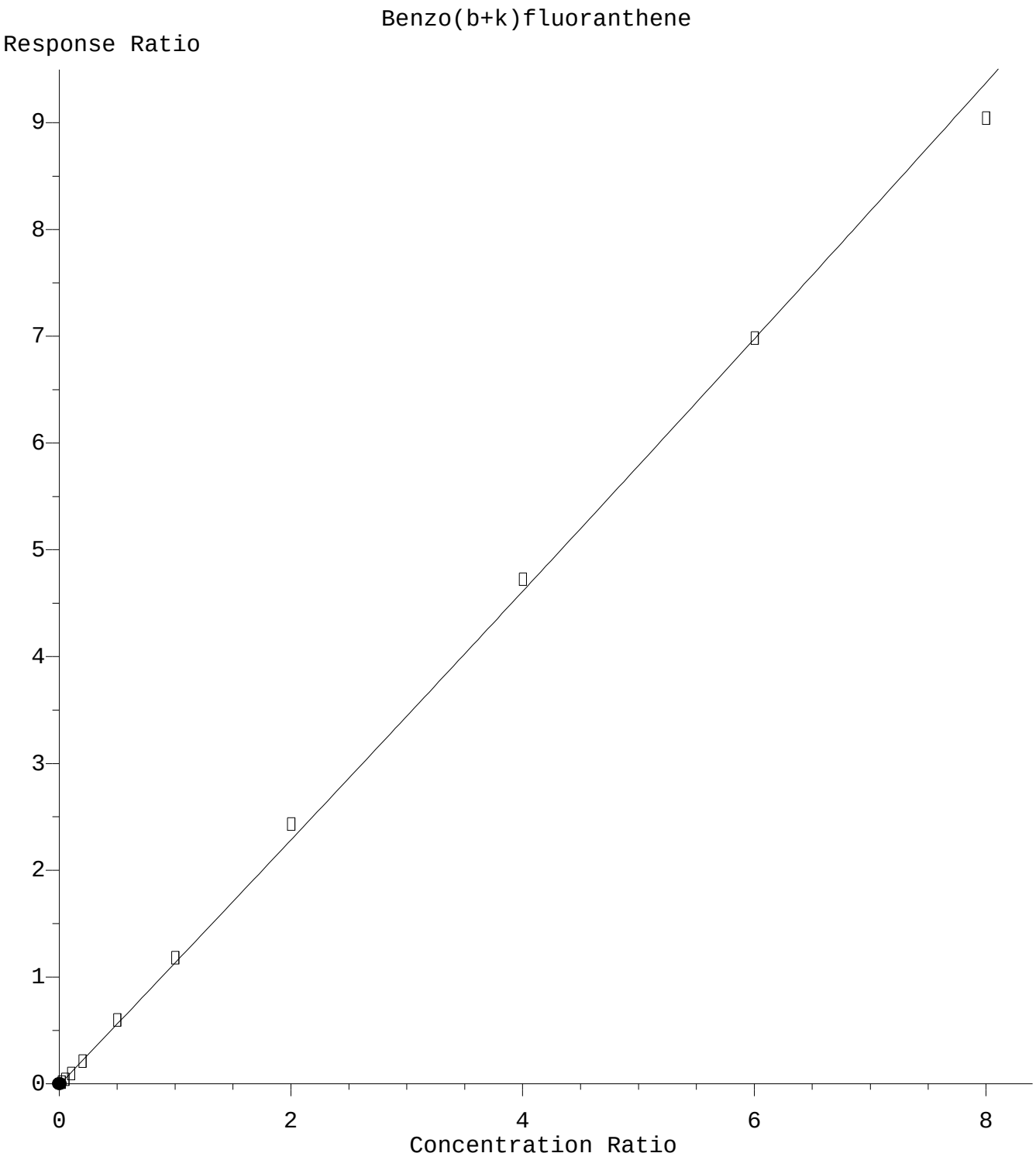
TIC: J05012011.D\data.ms

(89) Benzo(k)fluoranthene (T)

18.142min (+ 0.075) 9.45 ng/ml m

response 113

Ion	Exp%	Act%
252.10	100.00	100.00
126.10	17.40	0.00
253.10	21.90	0.00
0.00	0.00	0.00

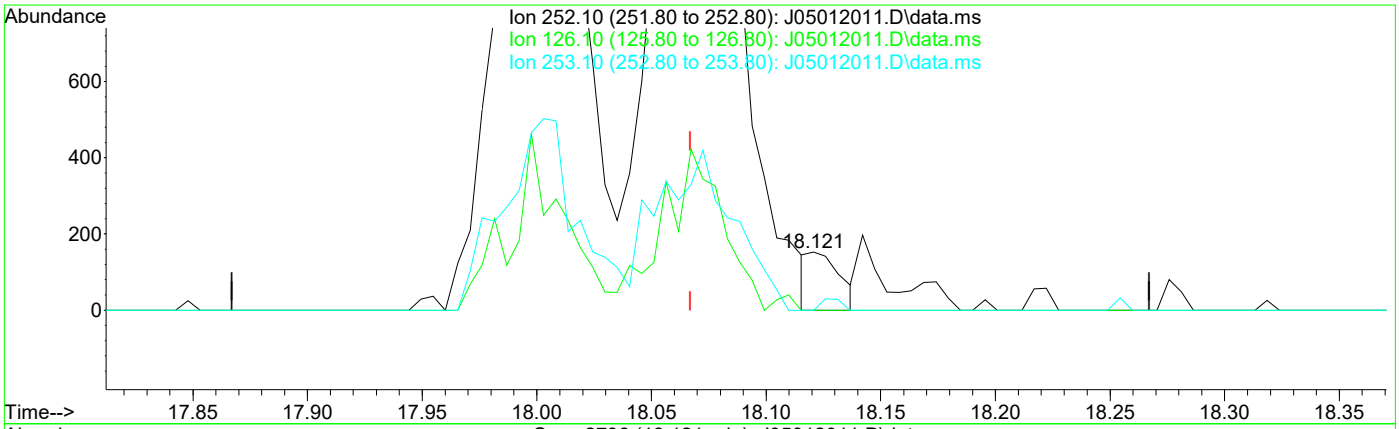


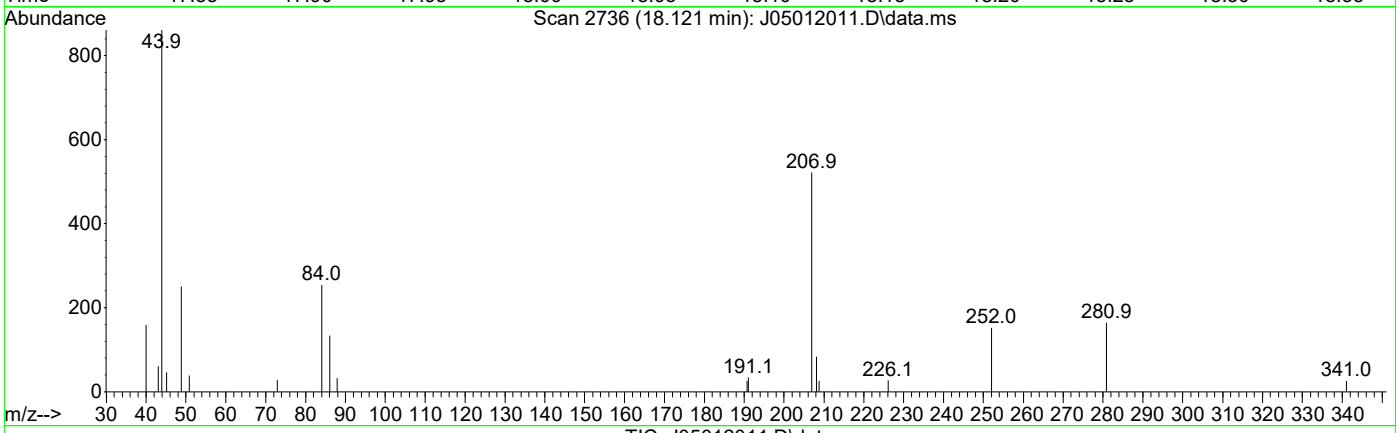
R = 4.42e-003 A*A + 1.14e+000 A - 9.27e-003
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





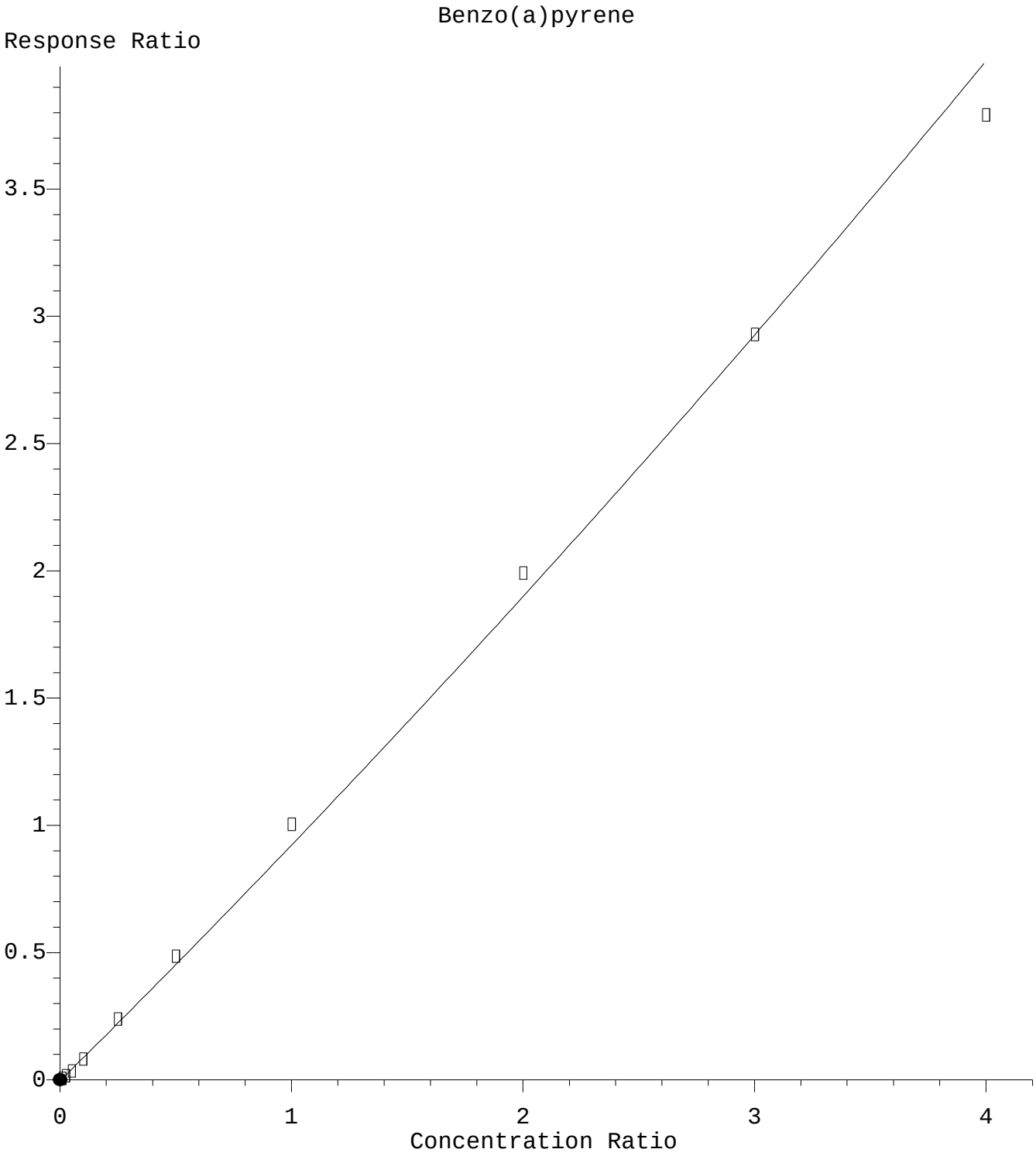
TIC: J05012011.D\data.ms

(90) Benzo(b+k)fluoranthene (T)

18.121min (+ 0.054) 16.70 ng/ml m

response 146

Ion	Exp%	Act%
252.10	100.00	100.00
126.10	17.40	0.00
253.10	21.90	0.00
0.00	0.00	0.00

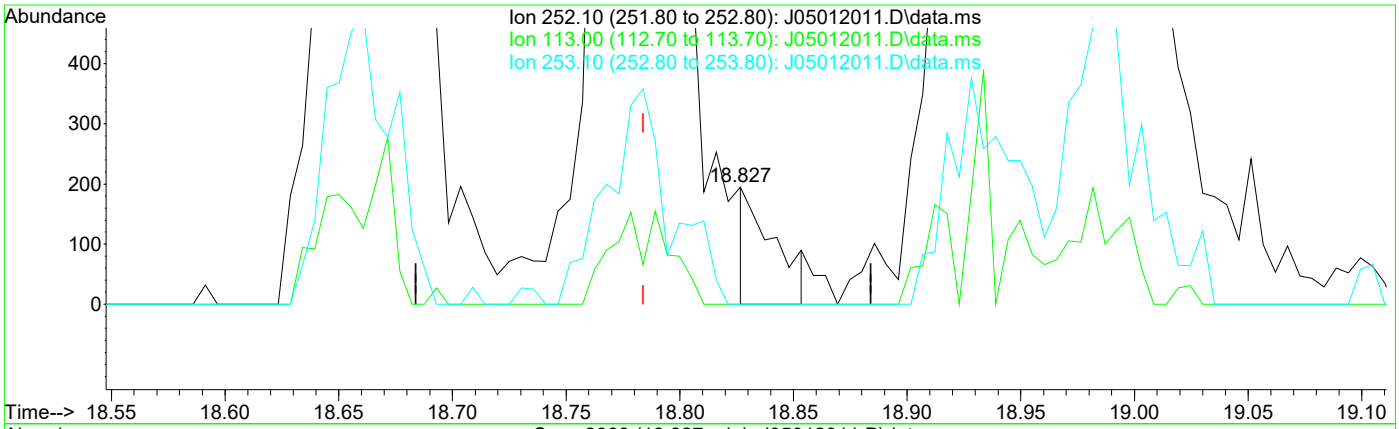


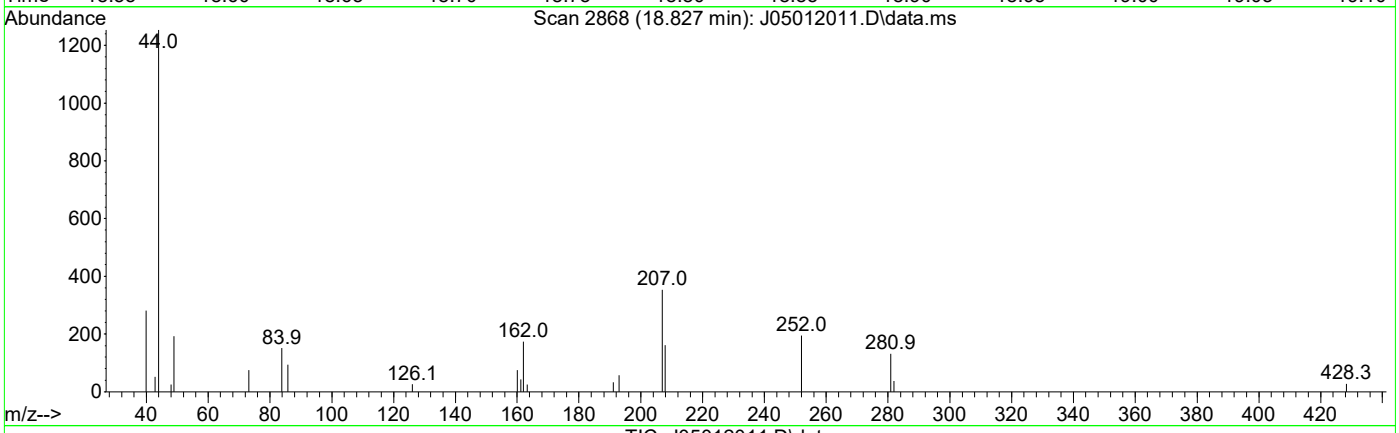
R = 2.51e-002 A*A + 9.01e-001 A - 4.19e-003
Coef of Det (r^2) = 0.992 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





TIC: J05012011.D\data.ms

(92) Benzo(a)pyrene (T)

18.827min (+ 0.043) 9.89 ng/ml m

response 167

Ion	Exp%	Act%
252.10	100.00	100.00
113.00	9.40	0.00
253.10	22.40	0.00
0.00	0.00	0.00

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01048

Analysis Included
8270E LL Full List

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed
0E01048-TUN1	MS Tune	Soil	A20D411	A20C061	5/1/2020 2:11:00PM
0E01048-ICB1	Initial Cal Blank	Soil		A20C061	5/1/2020 2:39:00PM
0E01048-CAL1	Cal Standard	Soil	A20D243	"	5/1/2020 3:16:00PM
0E01048-CAL2	Cal Standard	Soil	A20D244	"	5/1/2020 3:53:00PM
0E01048-CAL3	Cal Standard	Soil	A20D245	"	5/1/2020 6:15:00PM
0E01048-CAL4	Cal Standard	Soil	A20D246	"	5/1/2020 6:50:00PM
0E01048-CAL5	Cal Standard	Soil	A20D247	"	5/1/2020 7:26:00PM
0E01048-CAL6	Cal Standard	Soil	A20D248	"	5/1/2020 8:01:00PM
0E01048-CAL7	Cal Standard	Soil	A20D249	"	5/1/2020 8:36:00PM
0E01048-CAL8	Cal Standard	Soil	A20D250	"	5/1/2020 9:11:00PM
0E01048-CAL9	Cal Standard	Soil	A20D251	"	5/1/2020 9:46:00PM
0E01048-CALA	Cal Standard	Soil	A20D252	"	5/1/2020 10:21:00PM
0E01048-ICV1	Initial Cal Check	Soil	A20C090	"	5/1/2020 11:31:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0E0506** Instrument: **SV-GCMS10**

8270E LL Full List Sequence: **0E01048** Matrix: **Soil**

0E01048-CAL1	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL2	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL3	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL4	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL5	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL6	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL7	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL8	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL9	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CALA	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic fit compounds.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01048

Analytes With Quadratic Curve Fits

Qualifier	iMDL	iMRL	Spike Amt	%Difference	OK?	Raise MRL to ?
					☐	☐

Analytes listed above have quadratic curve fits. If they are using a weighting otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0E0506** Instrument: **SV-GCMS10**

8270E LL Full List Sequence: **0E01048** Matrix: **Soil**

0E01048-ICV1	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01048

Analysis Included
8270E LL Full List

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed
0E01048-TUN1	MS Tune	Water	A20D411	A20C061	5/1/2020 2:11:00PM
0E01048-ICB1	Initial Cal Blank	Water		A20C061	5/1/2020 2:39:00PM
0E01048-CAL1	Cal Standard	Water	A20D243	"	5/1/2020 3:16:00PM
0E01048-CAL2	Cal Standard	Water	A20D244	"	5/1/2020 3:53:00PM
0E01048-CAL3	Cal Standard	Water	A20D245	"	5/1/2020 6:15:00PM
0E01048-CAL4	Cal Standard	Water	A20D246	"	5/1/2020 6:50:00PM
0E01048-CAL5	Cal Standard	Water	A20D247	"	5/1/2020 7:26:00PM
0E01048-CAL6	Cal Standard	Water	A20D248	"	5/1/2020 8:01:00PM
0E01048-CAL7	Cal Standard	Water	A20D249	"	5/1/2020 8:36:00PM
0E01048-CAL8	Cal Standard	Water	A20D250	"	5/1/2020 9:11:00PM
0E01048-CAL9	Cal Standard	Water	A20D251	"	5/1/2020 9:46:00PM
0E01048-CALA	Cal Standard	Water	A20D252	"	5/1/2020 10:21:00PM
0E01048-ICV1	Initial Cal Check	Water	A20C090	"	5/1/2020 11:31:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0E0506** Instrument: **SV-GCMS10**

8270E LL Full List Sequence: **0E01048** Matrix: **Water**

0E01048-CAL1	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL2	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL3	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL4	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL5	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL6	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL7	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL8	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL9	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CALA	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic fit compounds.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01048

Analytes With Quadratic Curve Fits

Qualifier	iMDL	iMRL	Spike Amt	%Difference	OK?	Raise MRL to ?
					☐	☐

Analytes listed above have quadratic curve fits. If they are using a weighting otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0E0506** Instrument: **SV-GCMS10**

8270E LL Full List Sequence: **0E01048** Matrix: **Water**

0E01048-ICV1	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4 (IST	2000.000	2000.000	0.0	100	0.00
2	TG	N-Nitrosodimethylamine	1000.000	1108.563	-10.9	109	-0.02
3	TG	Pyridine	1000.000	1032.737	-3.3	103	-0.02
4	S	2-Fluorophenol (Surr)	1000.000	1090.392	-9.0	105	0.00
5	S	Phenol-d6(Surr)	1000.000	1143.738	-14.4	106	0.00
6	T	Phenol	1000.000	1230.470	-23.0	119	0.00
7	T	Aniline	1000.000	1062.633	-6.3	106	0.00
8	T	Bis(2-chloroethyl) ether	1000.000	1131.847	-13.2	104	0.00
9	T	2-Chlorophenol	1000.000	1126.541	-12.7	105	0.00
10	T	1,3-Dichlorobenzene	1000.000	1041.869	-4.2	103	0.00
11	T	1,4-Dichlorobenzene	1000.000	1061.399	-6.1	106	0.00
12	T	Benzyl alcohol	1000.000	1114.553	-11.5	102	0.00
13	T	1,2-Dichlorobenzene	1000.000	1084.345	-8.4	105	0.00
14	T	2-Methylphenol	1000.000	1185.828	-18.6	108	0.00
15	T	2,2’-Oxybis(1-Chloropropane	1000.000	1126.027	-12.6	107	0.00
16	T	N-Nitrosodi-n-propylamine	1000.000	1174.888	-17.5	108	0.00
17	T	3+4-Methylphenol	1000.000	1202.521	-20.3	108	0.00
18	T	Hexachloroethane	1000.000	1079.192	-7.9	106	0.00
19	S	Nitrobenzene-d5 (Surr)	1000.000	1147.138	-14.7	105	0.00
20	T	Nitrobenzene	1000.000	1157.931	-15.8	110	0.00
21	I	Naphthalene-d8 (ISTD)	2000.000	2000.000	0.0	103	0.00
22	T	Isophorone	1000.000	1100.114	-10.0	109	0.00
23	T	2-Nitrophenol	1000.000	1165.743	-16.6	108	0.00
24	T	2,4-Dimethylphenol	1000.000	1021.471	-2.1	96	0.00
25	T	Bis(2-chloroethoxy) methane	1000.000	1101.948	-10.2	109	0.00
26	T	Benzoic acid	2000.000	2143.149	-7.2	131	0.00
27	T	2,4-Dichlorophenol	1000.000	1152.764	-15.3	109	0.00
28	T	1,2,4-Trichlorobenzene	1000.000	1049.718	-5.0	104	0.00
29	T	Naphthalene	1000.000	1064.028	-6.4	105	0.00
30	T	4-Chloroaniline	1000.000	1182.098	-18.2	107	0.00
31	T	Hexachlorobutadiene	1000.000	1050.382	-5.0	106	0.00
32	T	4-Chloro-3-methylphenol	1000.000	1145.587	-14.6	111	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
33	T	2-Methylnaphthalene	1000.000	1131.322	-13.1	111	0.00
34	T	1-Methylnaphthalene	1000.000	1151.876	-15.2	115	0.00
35	I	Acenaphthene-d10 (ISTD)	2000.000	2000.000	0.0	106	0.00
36	T	Hexachlorocyclopentadiene	1000.000	1123.999	-12.4	112	0.00
37	T	2,4,6-Trichlorophenol	1000.000	1067.913	-6.8	105	0.00
38	T	2,4,5-Trichlorophenol	1000.000	1101.862	-10.2	111	0.00
39	T	1,1'-Biphenyl	1000.000	1083.657	-8.4	109	0.00
40	S	2-Fluorobiphenyl (Surr)	1000.000	1047.641	-4.8	107	0.00
41	T	2-Chloronaphthalene	1000.000	1070.551	-7.1	109	0.00
42	T	2-Nitroaniline	1000.000	1147.620	-14.8	114	0.00
43	T	2,6-Dimethylnaphthalene	1000.000	1090.694	-9.1	110	0.00
44	T	1,4-Dinitrobenzene	1000.000	1102.148	-10.2	113	0.00
45	T	Dimethyl phthalate	1000.000	1088.344	-8.8	109	0.00
46	T	1,3-Dinitrobenzene	1000.000	1090.531	-9.1	112	0.00
47	T	2,6-Dinitrotoluene	1000.000	1100.770	-10.1	112	0.00
48	T	1,2-Dinitrobenzene	1000.000	1097.993	-9.8	110	0.00
49	T	Acenaphthylene	1000.000	1124.206	-12.4	112	0.00
50	T	3-Nitroaniline	1000.000	1018.909	-1.9	105	0.00
51	T	Acenaphthene	1000.000	1062.838	-6.3	108	0.00
52	T	2,4-Dinitrophenol	1000.000	985.126	1.5	114	0.00
53	T	4-Nitrophenol	1000.000	1051.722	-5.2	104	0.00
54	T	2,4-Dinitrotoluene	1000.000	1057.786	-5.8	109	0.00
55	T	Dibenzofuran	1000.000	1053.846	-5.4	107	0.00
56	T	2,3,5,6-Tetrachlorophenol	1000.000	1085.616	-8.6	110	0.00
57	T	2,3,4,6-Tetrachlorophenol	1000.000	1084.072	-8.4	114	0.00
58	T	Diethyl phthalate	1000.000	1027.404	-2.7	102	0.00
59	T	2,3,5-Trimethylnaphthalene	1000.000	1075.293	-7.5	106	0.00
60	T	Fluorene	1000.000	1053.882	-5.4	105	0.00
61	T	4-Chlorophenyl phenyl ether	1000.000	1017.007	-1.7	106	0.00
62	T	4-Nitroaniline	1000.000	987.345	1.3	98	0.00
63	T	4,6-Dinitro-2-methylphenol	1000.000	1002.758	-0.3	111	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
64	I	Phenanthrene-d10 (ISTD)	2000.000	2000.000	0.0	101	0.00
65	T	N-Nitrosodiphenylamine	1000.000	1112.245	-11.2	102	0.00
66	T	Azobenzene (1,2-DPH)	1000.000	1093.438	-9.3	103	0.00
67	S	2,4,6-Tribromophenol (Surr)	1000.000	1114.450	-11.4	107	0.00
68	T	4-Bromophenyl phenyl ether	1000.000	1045.459	-4.5	104	0.00
69	T	Hexachlorobenzene	1000.000	1020.870	-2.1	104	0.00
70	T	Pentachlorophenol (PCP)	1000.000	1108.710	-10.9	107	0.00
71	T	Phenanthrene	1000.000	1058.611	-5.9	103	0.00
72	T	Anthracene	1000.000	1094.785	-9.5	103	0.00
73	T	Carbazole	1000.000	1041.548	-4.2	102	0.00
74	T	Di-n-butyl phthalate	1000.000	1059.402	-5.9	98	0.00
75	T	Fluoranthene	1000.000	1093.711	-9.4	101	0.01
76	T	Benzidine	2000.000	1830.363	8.5	90	0.01
77	T	Pyrene	1000.000	1099.147	-9.9	102	0.01
78	I	Chrysene-d12 (ISTD)	2000.000	2000.000	0.0	98	0.02
79	S	Terphenyl-d14 (Surr)	1000.000	1053.119	-5.3	97	0.01
80	T	Butyl benzyl phthalate	1000.000	1091.882	-9.2	101	0.02
81	T	Bis(2-ethylhexyl) adipate	1000.000	945.390	5.5	94	0.02
82	T	3,3-Dichlorobenzidine	2000.000	2016.552	-0.8	86	0.02
83	T	Benz(a)anthracene	1000.000	1019.743	-2.0	97	0.02
84	T	Chrysene	1000.000	1052.420	-5.2	100	0.02
85	T	Bis(2-ethylhexyl) phthalate	1000.000	1015.554	-1.6	97	0.02
86	I	Perylene-d12 (ISTD)	2000.000	2000.000	0.0	95	0.02
87	T	Di-n-octyl phthalate	1000.000	1020.608	-2.1	96	0.02
88	T	Benzo(b)fluoranthene	1000.000	1096.894	-9.7	100	0.02
89	T	Benzo(k)fluoranthene	1000.000	1082.648	-8.3	97	0.02
90	T	Benzo(b+k)fluoranthene	2000.000	2160.400	-8.0	98	0.02
91	T	Benzo(e)pyrene	1000.000	1120.077	-12.0	96	0.02
92	T	Benzo(a)pyrene	1000.000	1112.922	-11.3	98	0.02
93	T	Perylene	1000.000	1221.852	-22.2	112	0.02

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
94	I	Dibenz(a,h)Anthrcene-d14 (I	2000.000	2000.000	0.0	93	0.02
95	T	Indeno(1,2,3-cd)pyrene	1000.000	1018.755	-1.9	97	0.02
96	T	Dibenz(a,h)anthracene	1000.000	1071.356	-7.1	98	0.02
97	T	Benzo(g,h,i)perylene	1000.000	1133.573	-13.4	96	0.02

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012009.D
Acq On : 1 May 2020 2:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-TUN1
Misc : 1x, A20D411 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 10:56:58 2020
Quant Method : C:\msdchem\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration

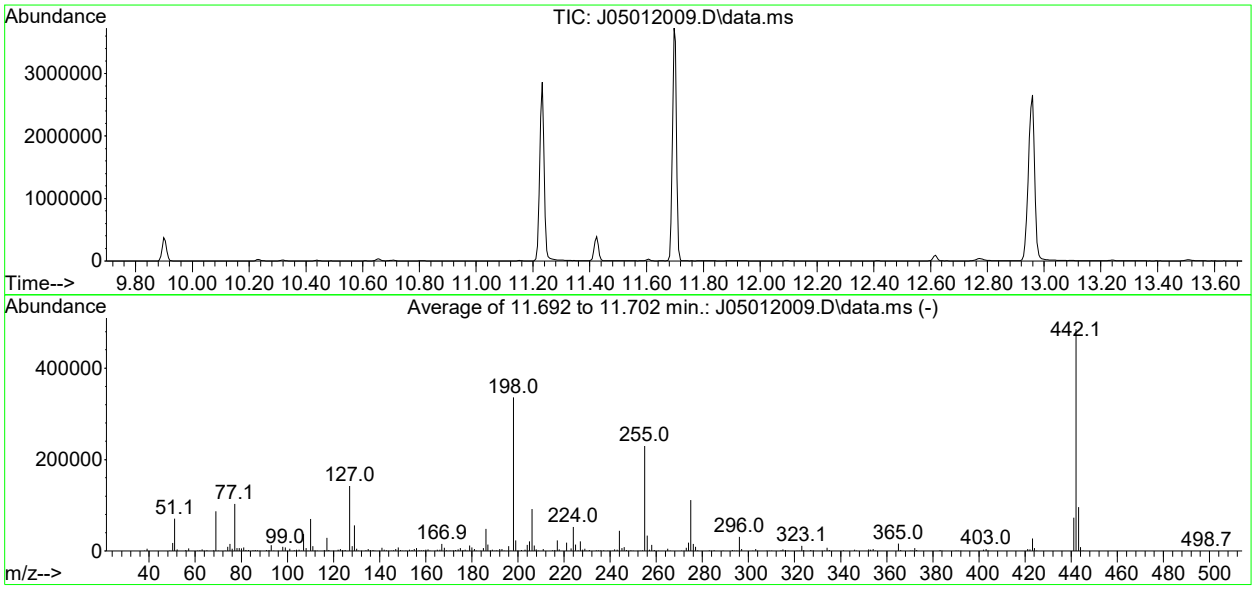
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.840	150	69799	2.00	ug/mL		0.00
2) Naphthalene-d8	8.113	136	175566	2.00	ug/mL		0.00
3) Acenaphthene-d10	9.900	162	88689	2.00	ug/mL		0.00
5) Phenanthrene-d10	11.424	188	159940	2.00	ug/mL		0.00
11) Chrysene-d12	15.275	240	139629	2.00	ug/mL		0.00
12) Perylene-d12	17.447	264	135213	2.00	ug/mL	#	0.00
Target Compounds							Qvalue
4) Pentachlorophenol	11.232	266	427848	51.09	ug/mL		81
6) DFTPP	11.702	442	617020	47.79	ug/mL	#	59
7) Benzidine	12.959	184	1772639	31.16	ug/mL		97
8) 4,4-DDE	13.237	TIC	15271	No Calib			
9) 4,4-DDD	13.804	TIC	7055	No Calib			
10) 4,4-DDT	14.425	TIC	5137621	31.32	ug/mL		94

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

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012009.D
Acq On : 1 May 2020 2:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-TUN1
Misc : 1x, A20D411 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Mon May 04 10:56:48 2020



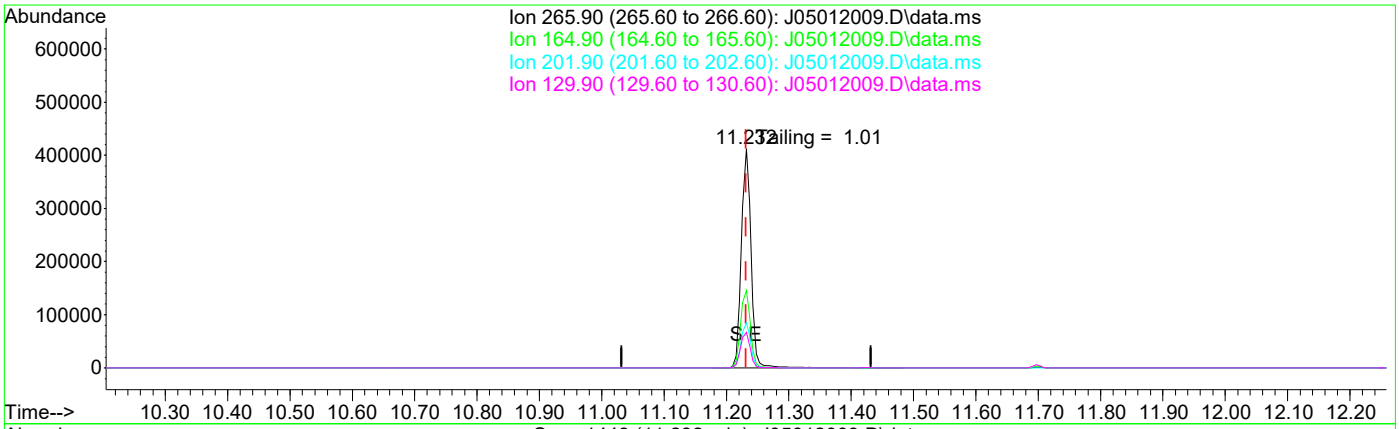
AutoFind: Scans 1534, 1535, 1536; Background Corrected with Scan 1530

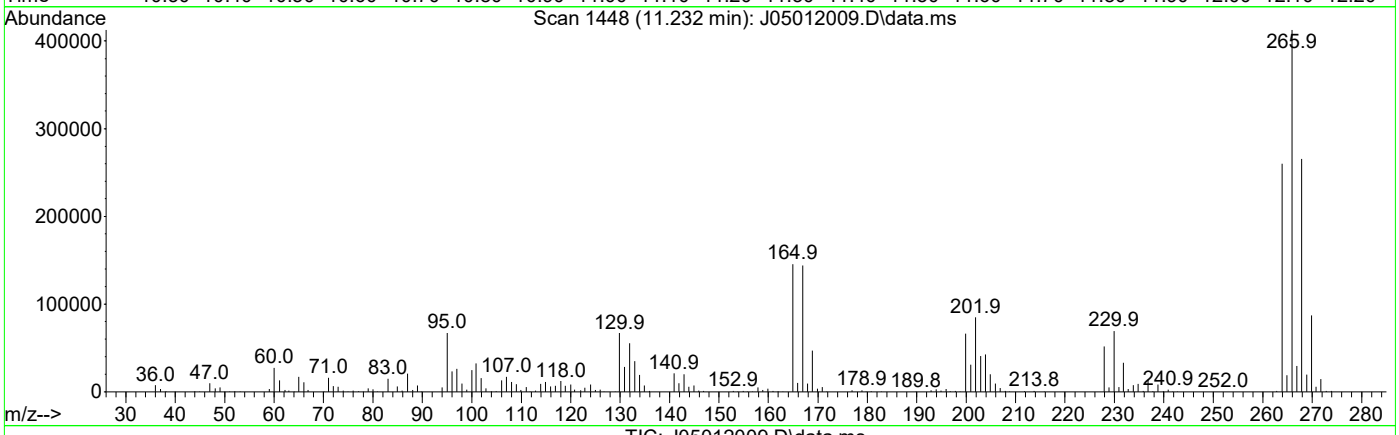
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	1306	PASS
69	198	0.01	100	25.8	86827	PASS
70	69	0.00	2	0.5	421	PASS
197	198	0.00	2	0.1	366	PASS
198	198	100	100	100.0	336363	PASS
199	198	5	9	6.8	22859	PASS
365	198	1	100	4.7	15719	PASS
441	443	0.01	150	75.9	72808	PASS
442	198	0.10	200	144.3	485227	PASS
443	442	15	24	19.8	95901	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012009.D
Acq On : 1 May 2020 2:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-TUN1
Misc : 1x, A20D411 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 10:56:58 2020
Quant Method : C:\msdchem\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration





TIC: J05012009.D\data.ms

(4) Pentachlorophenol

11.232min (0.000) 51.09 ug/mL

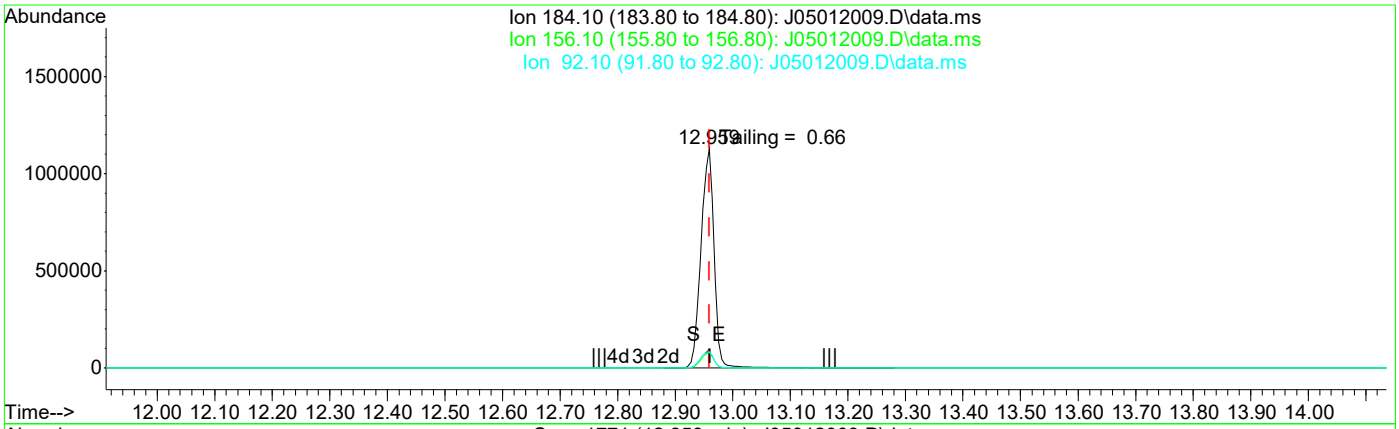
response 427848

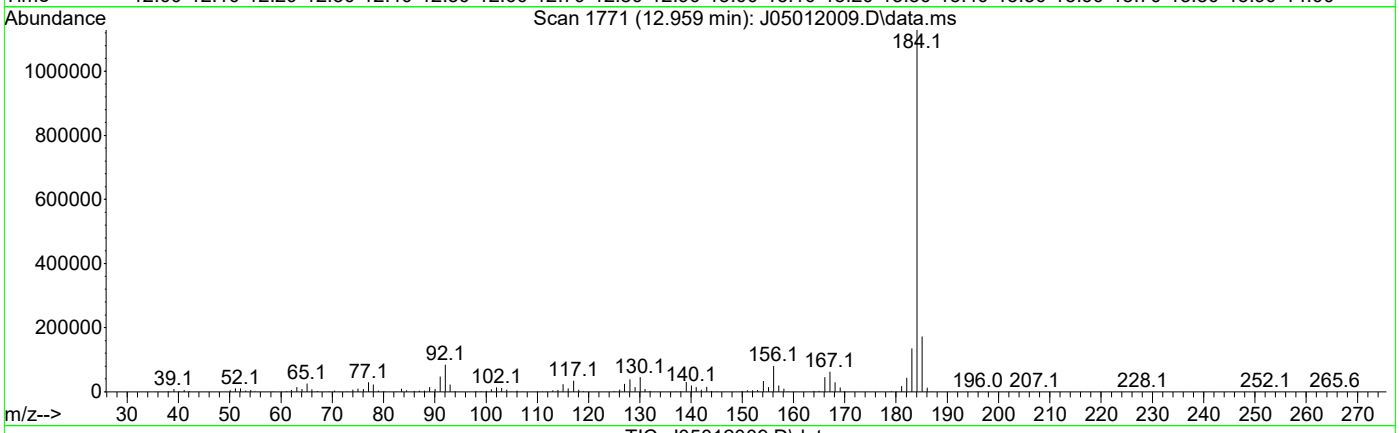
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	35.28
201.90	25.80	20.61
129.90	27.30	16.21

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012009.D
Acq On : 1 May 2020 2:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-TUN1
Misc : 1x, A20D411 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 10:56:58 2020
Quant Method : C:\msdchem\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration





TIC: J05012009.D\data.ms

(7) Benzidine

12.959min (0.000) 31.16 ug/mL

response 1772639

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.17
92.10	8.20	7.52
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

From:
0E01048-TUN1
SV-GCMS10

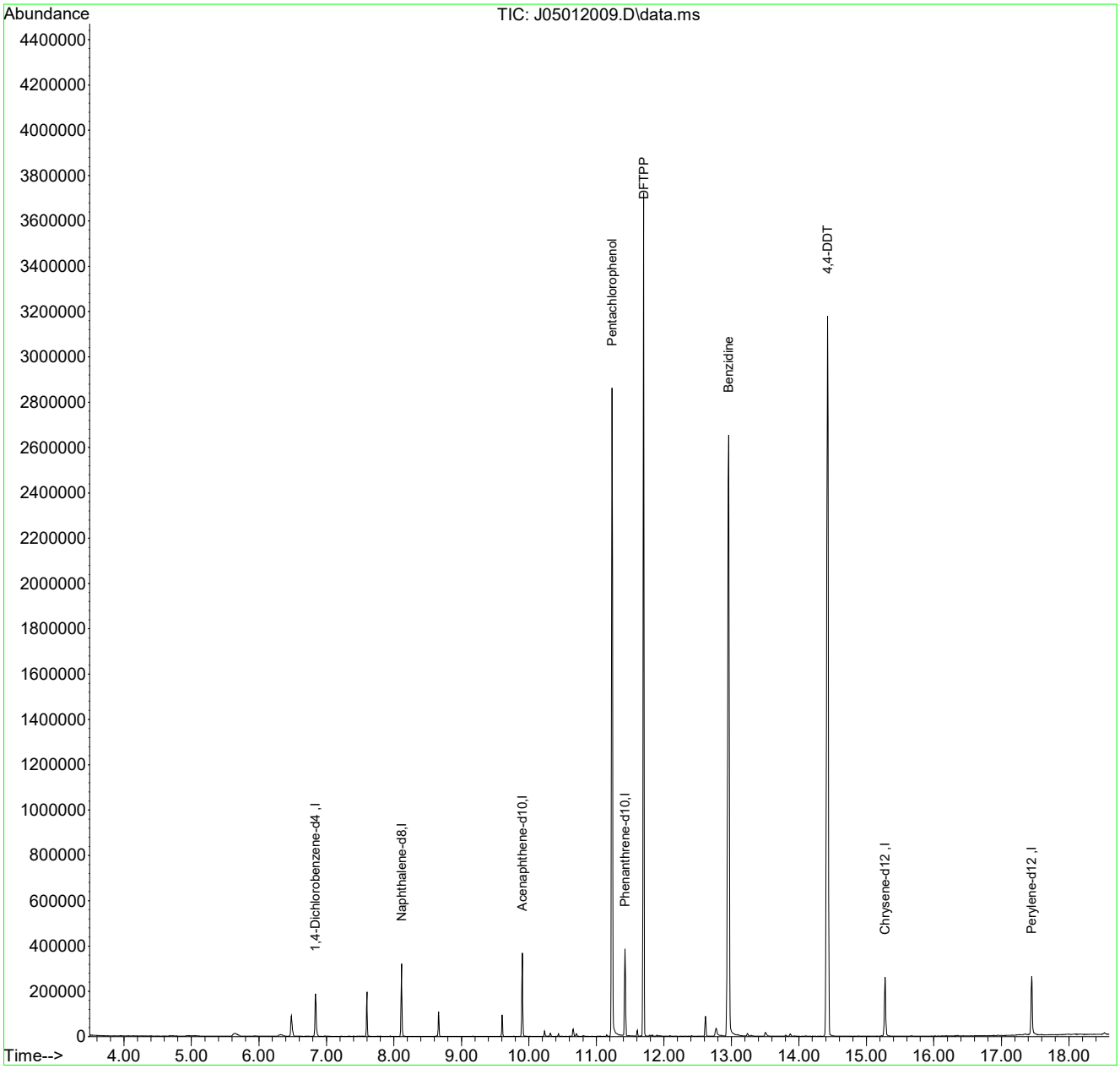
First Column Area Counts		Percent Breakdown	
DDE	15271		
DDD	7055		
DDT	5137621	**0.43**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012009.D
Acq On : 1 May 2020 2:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-TUN1
Misc : 1x, A20D411 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 10:56:58 2020
Quant Method : C:\msdchem\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:00:11 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	179871	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	675350	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	321385	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	563779	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	533766	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	511575	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.330	292	407232	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	0.000	112	0	0.00	ng/ml	
5) Phenol-d6(Surr)	0.000	99	0	0.00	ng/ml	
19) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
40) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
67) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
79) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
6) Phenol	6.477	94	75	N.D.		
7) Aniline	0.000		0	N.D.		
8) Bis(2-chloroethyl) ether	0.000		0	N.D.		
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	0.000		0	N.D.		
12) Benzyl alcohol	6.969	108	62	22.23	ng/ml	78
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	0.000		0	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	0.000		0	N.D.		
16) N-Nitrosodi-n-propylamine	0.000		0	N.D.		
17) 3+4-Methylphenol	0.000		0	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
22) Isophorone	0.000		0	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 11:00:11 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.		
26) Benzoic acid	7.921	105	345	850.97	ng/ml#	42
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	0.000		0	N.D.		
30) 4-Chloroaniline	0.000		0	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	0.000		0	N.D.		
33) 2-Methylnaphthalene	0.000		0	N.D.		
34) 1-Methylnaphthalene	0.000		0	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	0.000		0	N.D.		
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	9.574	163	60	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	0.000		0	N.D.		
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	0.000		0	N.D.		
50) 3-Nitroaniline	9.873	138	80	20.21	ng/ml#	1
51) Acenaphthene	0.000		0	N.D.		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	0.000		0	N.D.		
54) 2,4-Dinitrotoluene	0.000		0	N.D.		
55) Dibenzofuran	0.000		0	N.D.		
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	0.000		0	N.D.		
59) 2,3,5-Trimethylnaphtha...	10.397	170	65	N.D.		
60) Fluorene	0.000		0	N.D.		
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	0.000		0	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 11:00:11 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

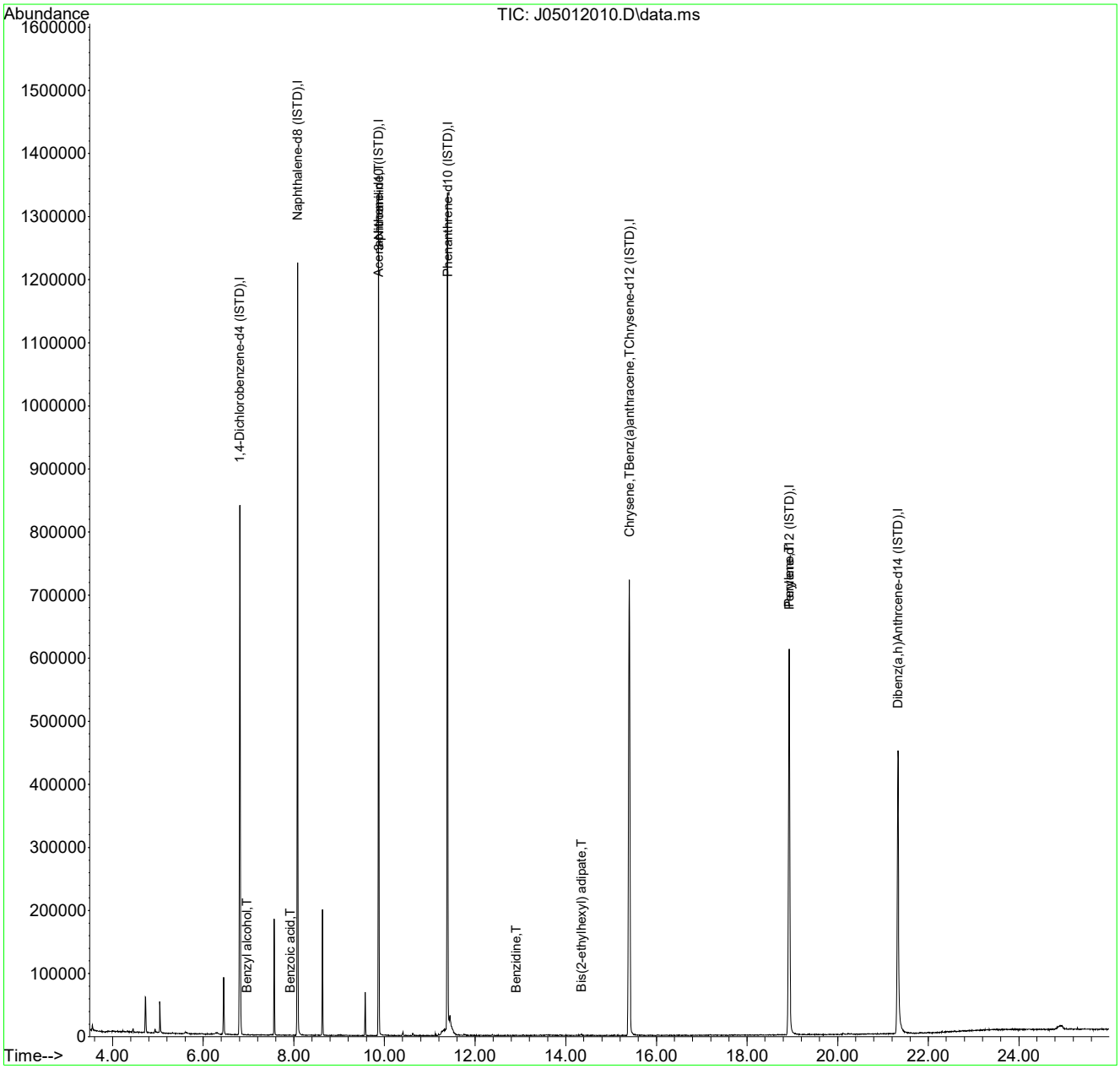
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	0.000		0	N.D.		
66) Azobenzene (1,2-DPH)	0.000		0	N.D.		
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	0.000		0	N.D.		
71) Phenanthrene	11.392	178	220	N.D.		
72) Anthracene	11.392	178	220	N.D.		
73) Carbazole	11.617	167	52	N.D.		
74) Di-n-butyl phthalate	11.965	149	60	N.D.		
75) Fluoranthene	0.000		0	N.D.		
76) Benzidine	12.901	184	647	49.93	ng/ml	83
77) Pyrene	13.056	202	52	N.D.		
80) Butyl benzyl phthalate	0.000		0	N.D.		
81) Bis(2-ethylhexyl) adipate	14.345	129	649	63.94	ng/ml	90
82) 3,3-Dichlorobenzidine	15.345	252	70	Below Cal #		27
83) Benz(a)anthracene	15.404	228	1337	4.43	ng/ml	74
84) Chrysene	15.404	228	1319	4.75	ng/ml	71
85) Bis(2-ethylhexyl) phth...	0.000		0	N.D.		
87) Di-n-octyl phthalate	0.000		0	N.D.		
88) Benzo(b)fluoranthene	0.000		0	N.D.		
89) Benzo(k)fluoranthene	0.000		0	N.D.		
90) Benzo(b+k)fluoranthene	0.000		0	N.D.		
91) Benzo(e)pyrene	0.000		0	N.D.		
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.928	252	1783	7.28	ng/ml	75
95) Indeno(1,2,3-cd)pyrene	21.330	276	310	N.D.		
96) Dibenz(a,h)anthracene	21.325	278	100	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 11:00:11 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 05 14:50:44 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Final Requant

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	179871	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	675350	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	321385	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	563779	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	533766	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	511575	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.330	292	407232	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	0.000	112	0	0.00	ng/ml	
5) Phenol-d6(Surr)	0.000	99	0	0.00	ng/ml	
19) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
40) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
67) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
79) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
6) Phenol	6.477	94	75	N.D.		
7) Aniline	0.000		0	N.D.		
8) Bis(2-chloroethyl) ether	0.000		0	N.D.		
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	0.000		0	N.D.		
12) Benzyl alcohol	6.969	108	62	9.58	ng/ml	78
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	0.000		0	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	0.000		0	N.D.		
16) N-Nitrosodi-n-propylamine	0.000		0	N.D.		
17) 3+4-Methylphenol	0.000		0	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
22) Isophorone	0.000		0	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 14:50:44 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.		
26) Benzoic acid	7.921	105	345	736.85	ng/ml#	42
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	0.000		0	N.D.		
30) 4-Chloroaniline	0.000		0	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	0.000		0	N.D.		
33) 2-Methylnaphthalene	0.000		0	N.D.		
34) 1-Methylnaphthalene	0.000		0	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	0.000		0	N.D.		
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	9.574	163	60	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	0.000		0	N.D.		
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	0.000		0	N.D.		
50) 3-Nitroaniline	9.873	138	80	26.35	ng/ml#	1
51) Acenaphthene	0.000		0	N.D.		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	0.000		0	N.D.		
54) 2,4-Dinitrotoluene	0.000		0	N.D.		
55) Dibenzofuran	0.000		0	N.D.		
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	0.000		0	N.D.		
59) 2,3,5-Trimethylnaphtha...	10.397	170	65	N.D.		
60) Fluorene	0.000		0	N.D.		
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	0.000		0	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 14:50:44 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

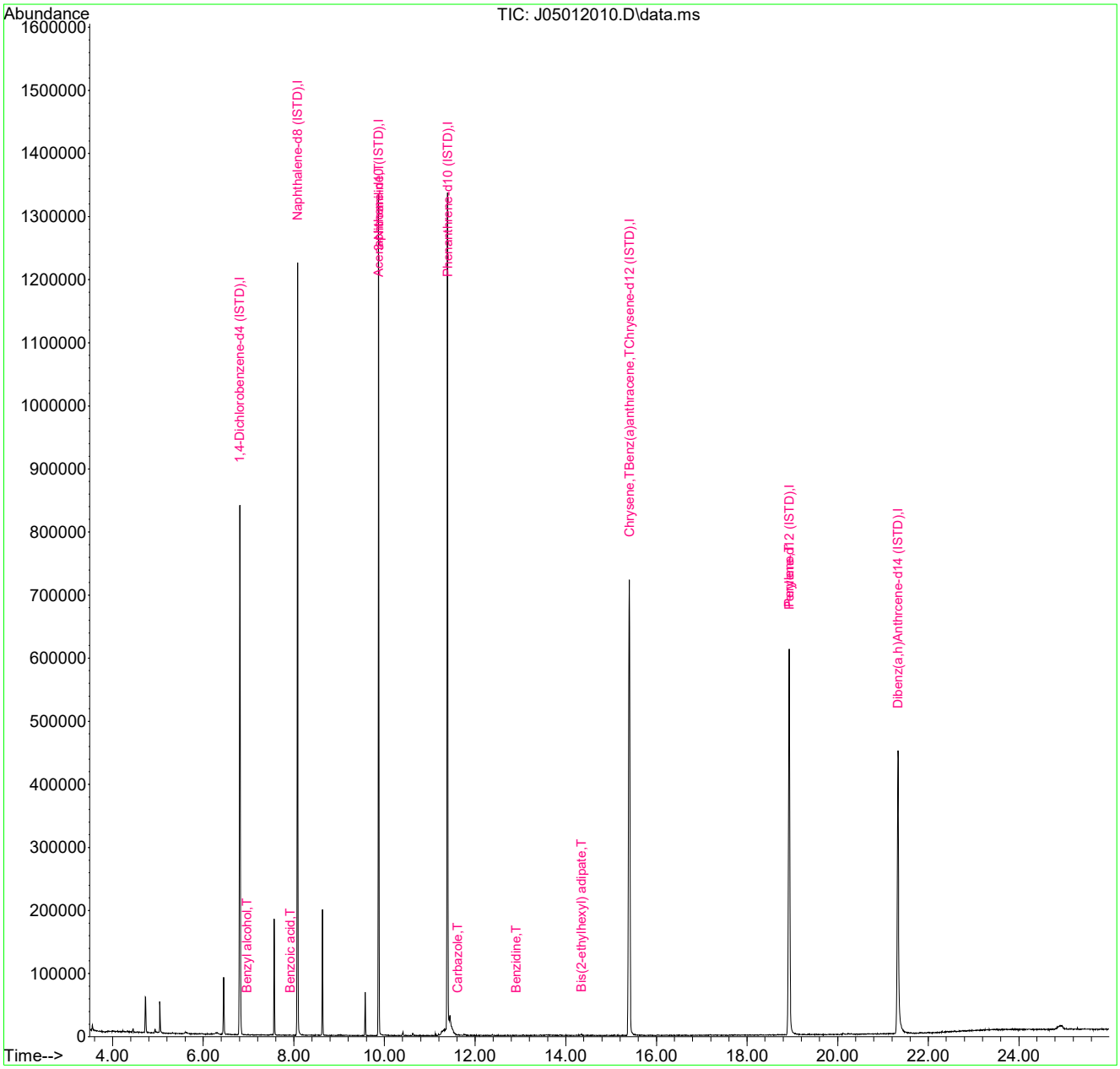
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	0.000		0	N.D.		
66) Azobenzene (1,2-DPH)	0.000		0	N.D.		
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	0.000		0	N.D.		
71) Phenanthrene	11.392	178	220	N.D.		
72) Anthracene	11.392	178	220	N.D.		
73) Carbazole	11.617	167	52	6.60	ng/ml	61
74) Di-n-butyl phthalate	11.965	149	60	N.D.		
75) Fluoranthene	0.000		0	N.D.		
76) Benzidine	12.901	184	647	139.95	ng/ml	83
77) Pyrene	13.056	202	52	N.D.		
80) Butyl benzyl phthalate	0.000		0	N.D.		
81) Bis(2-ethylhexyl) adipate	14.345	129	649	6.27	ng/ml	90
82) 3,3-Dichlorobenzidine	15.345	252	70	Below Cal #		27
83) Benz(a)anthracene	15.404	228	1337	4.42	ng/ml	74
84) Chrysene	15.404	228	1319	4.63	ng/ml	71
85) Bis(2-ethylhexyl) phth...	0.000		0	N.D.		
87) Di-n-octyl phthalate	0.000		0	N.D.		
88) Benzo(b)fluoranthene	0.000		0	N.D.		
89) Benzo(k)fluoranthene	0.000		0	N.D.		
90) Benzo(b+k)fluoranthene	0.000		0	N.D.		
91) Benzo(e)pyrene	0.000		0	N.D.		
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.928	252	1783	7.23	ng/ml	75
95) Indeno(1,2,3-cd)pyrene	21.330	276	310	N.D.		
96) Dibenz(a,h)anthracene	21.325	278	100	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 14:50:44 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	191864	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	731955	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	357685	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	601725	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	644210	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	635623	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.335	292	508993	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	1953	16.87	ng/ml	0.00
5) Phenol-d6(Surr)	6.434	99	2369	17.49	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	1932	19.06	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	5848	21.92	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	445	41.30	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.275	244	4927	16.48	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.161	74	1056	14.57	ng/ml	78
3) Pyridine	0.000		0	N.D.		See MI
6) Phenol	6.445	94	2710	18.68	ng/ml	92
7) Aniline	6.482	93	2400	Below Cal		97
8) Bis(2-chloroethyl) ether	6.535	93	2449	17.27	ng/ml	93
9) 2-Chlorophenol	6.600	128	2275	18.17	ng/ml	99
10) 1,3-Dichlorobenzene	6.755	146	3441	22.56	ng/ml	77
11) 1,4-Dichlorobenzene	6.824	146	3170	20.98	ng/ml	94
12) Benzyl alcohol	6.942	108	888	32.43	ng/ml	83
13) 1,2-Dichlorobenzene	6.979	146	2766	18.72	ng/ml	84
14) 2-Methylphenol	7.038	107	1790	19.37	ng/ml#	73
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	1973	20.41	ng/ml	94
16) N-Nitrosodi-n-propylamine	7.199	70	1290	18.23	ng/ml	88
17) 3+4-Methylphenol	7.188	107	1938	17.31	ng/ml	85
18) Hexachloroethane	7.322	201	928	18.85	ng/ml	93
20) Nitrobenzene	7.370	77	1961	19.61	ng/ml	79
22) Isophorone	7.611	82	3772	18.13	ng/ml	96
23) 2-Nitrophenol	7.696	139	743	42.71	ng/ml	64
24) 2,4-Dimethylphenol	7.723	122	1501	14.95	ng/ml	89

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	2531	18.65	ng/ml	87
26) Benzoic acid	7.915	105	423	851.80	ng/ml#	50
27) 2,4-Dichlorophenol	7.931	162	1526	41.09	ng/ml	84
28) 1,2,4-Trichlorobenzene	8.022	180	2793	22.09	ng/ml	90
29) Naphthalene	8.103	128	8211	21.64	ng/ml	99
30) 4-Chloroaniline	8.145	127	1892	25.33	ng/ml	79
31) Hexachlorobutadiene	8.231	225	1579	22.22	ng/ml	95
32) 4-Chloro-3-methylphenol	8.627	107	1075	37.23	ng/ml	76
33) 2-Methylnaphthalene	8.803	142	4968	18.77	ng/ml	95
34) 1-Methylnaphthalene	8.905	142	5104	20.54	ng/ml	96
36) Hexachlorocyclopentadiene	8.969	237	1207	30.19	ng/ml	96
37) 2,4,6-Trichlorophenol	9.087	196	759	41.44	ng/ml	96
38) 2,4,5-Trichlorophenol	9.124	198	819	41.67	ng/ml	76
39) 1,1'-Biphenyl	9.274	154	6111	21.19	ng/ml	95
41) 2-Chloronaphthalene	9.295	162	4995	22.58	ng/ml	95
42) 2-Nitroaniline	9.386	138	581	9.11	ng/ml	77
43) 2,6-Dimethylnaphthalene	9.434	156	4365	20.79	ng/ml	98
44) 1,4-Dinitrobenzene	9.515	168	221	72.55	ng/ml	77
45) Dimethyl phthalate	9.568	163	4603	18.65	ng/ml	90
46) 1,3-Dinitrobenzene	9.606	168	296	67.90	ng/ml	87
47) 2,6-Dinitrotoluene	9.632	165	551	37.44	ng/ml	92
48) 1,2-Dinitrobenzene	9.691	168	228	9.07	ng/ml#	17
49) Acenaphthylene	9.723	152	6575	19.15	ng/ml	97
50) 3-Nitroaniline	9.809	138	409	26.39	ng/ml#	60
51) Acenaphthene	9.900	153	4764	20.54	ng/ml	99
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	9.969	139	183	82.67	ng/ml#	42
54) 2,4-Dinitrotoluene	10.039	165	603	65.62	ng/ml	79
55) Dibenzofuran	10.076	168	6693	21.24	ng/ml	96
56) 2,3,5,6-Tetrachlorophenol	10.162	232	293	44.70	ng/ml	87
57) 2,3,4,6-Tetrachlorophenol	10.205	232	383	39.94	ng/ml#	50
58) Diethyl phthalate	10.285	149	4954	21.16	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	3993	20.73	ng/ml	93
60) Fluorene	10.424	166	4850	19.70	ng/ml	93
61) 4-Chlorophenyl phenyl ...	10.419	204	2587	21.24	ng/ml	93
62) 4-Nitroaniline	10.429	138	433	9.75	ng/ml	73
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

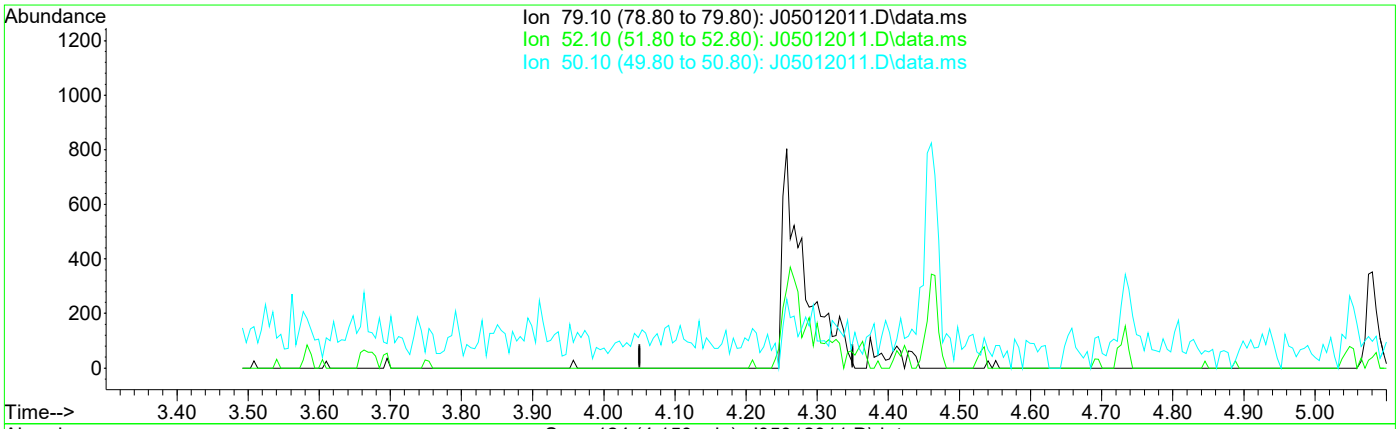
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.531	169	3338	18.50	ng/ml	91
66) Azobenzene (1,2-DPH)	10.579	77	3045	17.98	ng/ml	91
68) 4-Bromophenyl phenyl e...	10.921	248	1403	19.90	ng/ml	91
69) Hexachlorobenzene	11.002	284	2025	23.06	ng/ml	99
70) Pentachlorophenol (PCP)	11.194	266	102	79.88	ng/ml	80
71) Phenanthrene	11.413	178	7531	22.73	ng/ml	98
72) Anthracene	11.462	178	6216	19.14	ng/ml	92
73) Carbazole	11.622	167	4414	16.68	ng/ml	90
74) Di-n-butyl phthalate	11.964	149	5086	14.64	ng/ml	97
75) Fluoranthene	12.740	202	5907	17.01	ng/ml	97
76) Benzidine	12.900	184	1586	64.17	ng/ml	84
77) Pyrene	13.055	202	6308	17.62	ng/ml	93
80) Butyl benzyl phthalate	14.157	149	1032	65.71	ng/ml	93
81) Bis(2-ethylhexyl) adipate	14.344	129	1334	67.92	ng/ml	92
82) 3,3-Dichlorobenzidine	15.339	252	2441	Below Cal		88
83) Benz(a)anthracene	15.382	228	7626	20.94	ng/ml	83
84) Chrysene	15.457	228	6450	19.24	ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.543	149	1621	7.75	ng/ml	95
87) Di-n-octyl phthalate	17.222	149	1651	71.36	ng/ml	85
88) Benzo(b)fluoranthene	18.003	252	4506	23.47	ng/ml	94
89) Benzo(k)fluoranthene	18.067	252	4338	22.20	ng/ml	90
90) Benzo(b+k)fluoranthene	18.003	252	9446	45.72	ng/ml	92
91) Benzo(e)pyrene	18.661	252	4525	22.09	ng/ml	92
92) Benzo(a)pyrene	18.784	252	3486	24.53	ng/ml	92
93) Perylene	18.992	252	5620	18.48	ng/ml	97
95) Indeno(1,2,3-cd)pyrene	21.330	276	5874	19.49	ng/ml	51
96) Dibenz(a,h)anthracene	21.399	278	5072	18.83	ng/ml	97
97) Benzo(g,h,i)perylene	21.875	276	3952	21.66	ng/ml	86

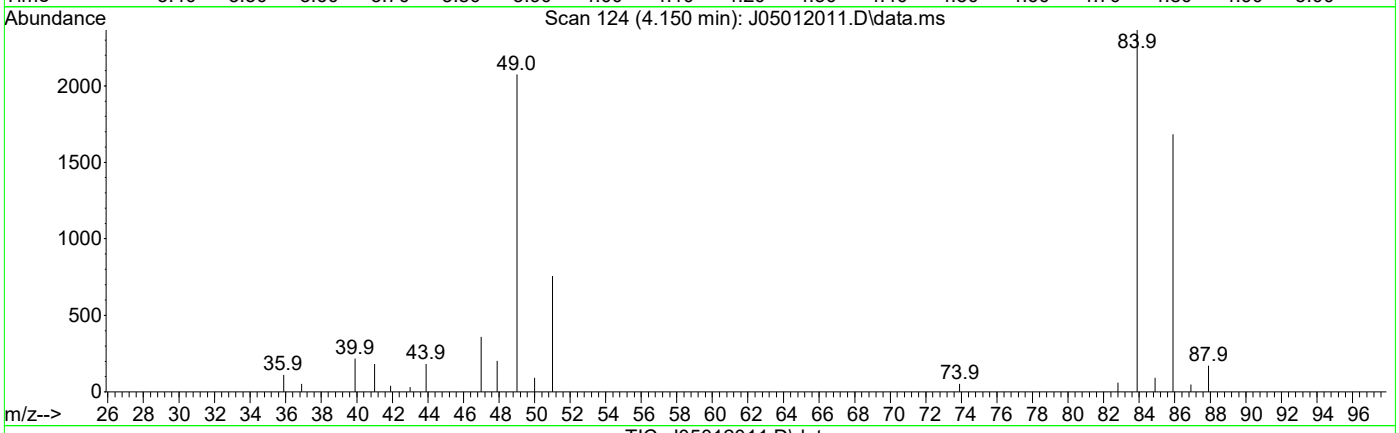
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012011.D\data.ms

(3) Pyridine (TG)

4.150min (-4.150) 0.00 ng/ml

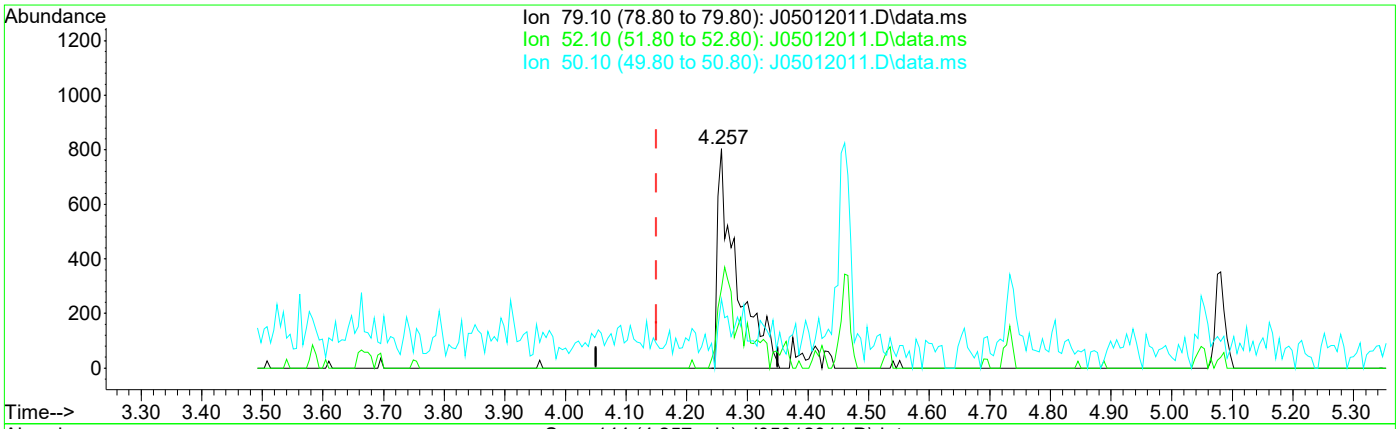
response 0

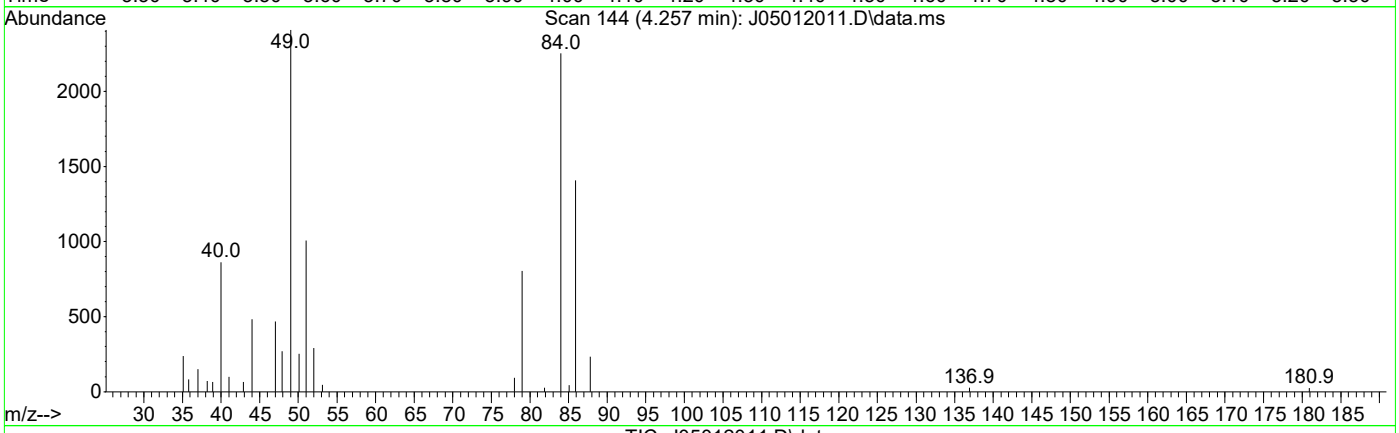
Ion	Exp%	Act%
79.10	100.00	0.00
52.10	46.80	0.00#
50.10	15.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012011.D\data.ms

(3) Pyridine (TG)

4.257min (+ 0.107) 24.29 ng/ml m

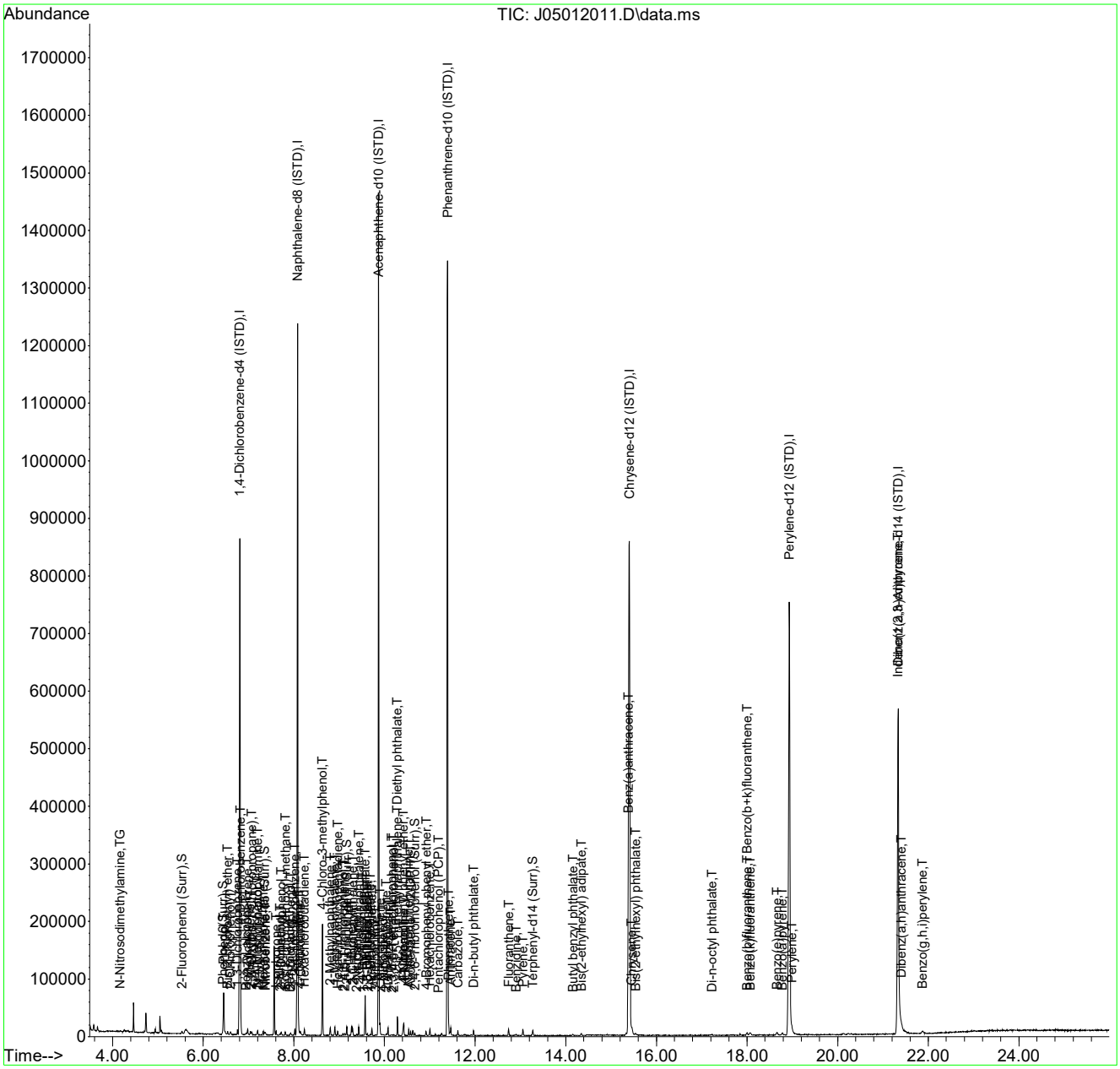
response 1772

Ion	Exp%	Act%
79.10	100.00	100.00
52.10	46.80	36.19
50.10	15.90	31.34
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012012.D
Acq On : 1 May 2020 3:53 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL2
Misc : 1x, A20D244@50
ALS Vial : 4 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:03:04 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	197701	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	717228	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	341194	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	575287	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.409	240	614670	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	623785	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.335	292	506876	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.535	112	5510	46.19	ng/ml	0.01
5) Phenol-d6(Surr)	6.434	99	6261	44.85	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	4906	46.97	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	14529	57.10	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	1336	66.61	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.275	244	13754	48.21	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.155	74	3161	42.32	ng/ml	90
3) Pyridine	4.230	79	4118	43.40	ng/ml	89
6) Phenol	6.445	94	5865	39.24	ng/ml	96
7) Aniline	6.487	93	6810	43.06	ng/ml	99
8) Bis(2-chloroethyl) ether	6.536	93	6507	44.53	ng/ml	88
9) 2-Chlorophenol	6.605	128	6059	46.95	ng/ml	93
10) 1,3-Dichlorobenzene	6.755	146	8367	53.24	ng/ml	98
11) 1,4-Dichlorobenzene	6.824	146	8455	54.29	ng/ml	97
12) Benzyl alcohol	6.942	108	2430	50.68	ng/ml	92
13) 1,2-Dichlorobenzene	6.980	146	7982	52.42	ng/ml	96
14) 2-Methylphenol	7.044	107	4132	43.39	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	5484	55.05	ng/ml	99
16) N-Nitrosodi-n-propylamine	7.199	70	3408	46.73	ng/ml	89
17) 3+4-Methylphenol	7.193	107	5177	44.87	ng/ml	90
18) Hexachloroethane	7.322	201	2852	56.22	ng/ml	86
20) Nitrobenzene	7.370	77	5092	49.42	ng/ml	97
22) Isophorone	7.605	82	9735	47.75	ng/ml	98
23) 2-Nitrophenol	7.696	139	1960	63.75	ng/ml	91
24) 2,4-Dimethylphenol	7.723	122	4417	44.91	ng/ml	94

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012012.D
Acq On : 1 May 2020 3:53 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL2
Misc : 1x, A20D244@50
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 04 11:03:04 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	6717	50.52	ng/ml	99
26) Benzoic acid	7.728	105	180	847.74	ng/ml#	1
27) 2,4-Dichlorophenol	7.932	162	4099	66.25	ng/ml	94
28) 1,2,4-Trichlorobenzene	8.023	180	6705	54.11	ng/ml	95
29) Naphthalene	8.103	128	21366	57.46	ng/ml	97
30) 4-Chloroaniline	8.146	127	5581	59.31	ng/ml	92
31) Hexachlorobutadiene	8.231	225	4330	62.18	ng/ml	94
32) 4-Chloro-3-methylphenol	8.627	107	3304	61.39	ng/ml	96
33) 2-Methylnaphthalene	8.803	142	13555	52.26	ng/ml	99
34) 1-Methylnaphthalene	8.905	142	12870	52.86	ng/ml	96
36) Hexachlorocyclopentadiene	8.969	237	3097	64.68	ng/ml	97
37) 2,4,6-Trichlorophenol	9.087	196	2246	63.92	ng/ml	96
38) 2,4,5-Trichlorophenol	9.119	198	2298	63.46	ng/ml	92
39) 1,1'-Biphenyl	9.274	154	15507	56.38	ng/ml	96
41) 2-Chloronaphthalene	9.295	162	11987	56.80	ng/ml	96
42) 2-Nitroaniline	9.392	138	1497	24.61	ng/ml#	60
43) 2,6-Dimethylnaphthalene	9.435	156	11180	55.82	ng/ml	96
44) 1,4-Dinitrobenzene	9.515	168	660	87.83	ng/ml#	51
45) Dimethyl phthalate	9.568	163	12248	52.02	ng/ml	97
46) 1,3-Dinitrobenzene	9.595	168	893	84.32	ng/ml	94
47) 2,6-Dinitrotoluene	9.632	165	1733	59.50	ng/ml	84
48) 1,2-Dinitrobenzene	9.686	168	779	32.48	ng/ml#	58
49) Acenaphthylene	9.723	152	17439	53.26	ng/ml	99
50) 3-Nitroaniline	9.809	138	1541	49.78	ng/ml	97
51) Acenaphthene	9.900	153	12562	56.78	ng/ml	96
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	9.964	139	426	89.08	ng/ml	87
54) 2,4-Dinitrotoluene	10.044	165	1933	85.20	ng/ml	92
55) Dibenzofuran	10.076	168	15584	51.84	ng/ml	90
56) 2,3,5,6-Tetrachlorophenol	10.157	232	1097	61.18	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.199	232	1453	59.71	ng/ml	97
58) Diethyl phthalate	10.285	149	12841	57.51	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.285	170	9734	52.99	ng/ml	95
60) Fluorene	10.424	166	11179	47.61	ng/ml	92
61) 4-Chlorophenyl phenyl ...	10.419	204	6122	52.70	ng/ml	99
62) 4-Nitroaniline	10.429	138	1234	29.14	ng/ml	70
63) 4,6-Dinitro-2-methylph...	10.461	198	137	148.38	ng/ml	67

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012012.D
Acq On : 1 May 2020 3:53 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL2
Misc : 1x, A20D244@50
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 04 11:03:04 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

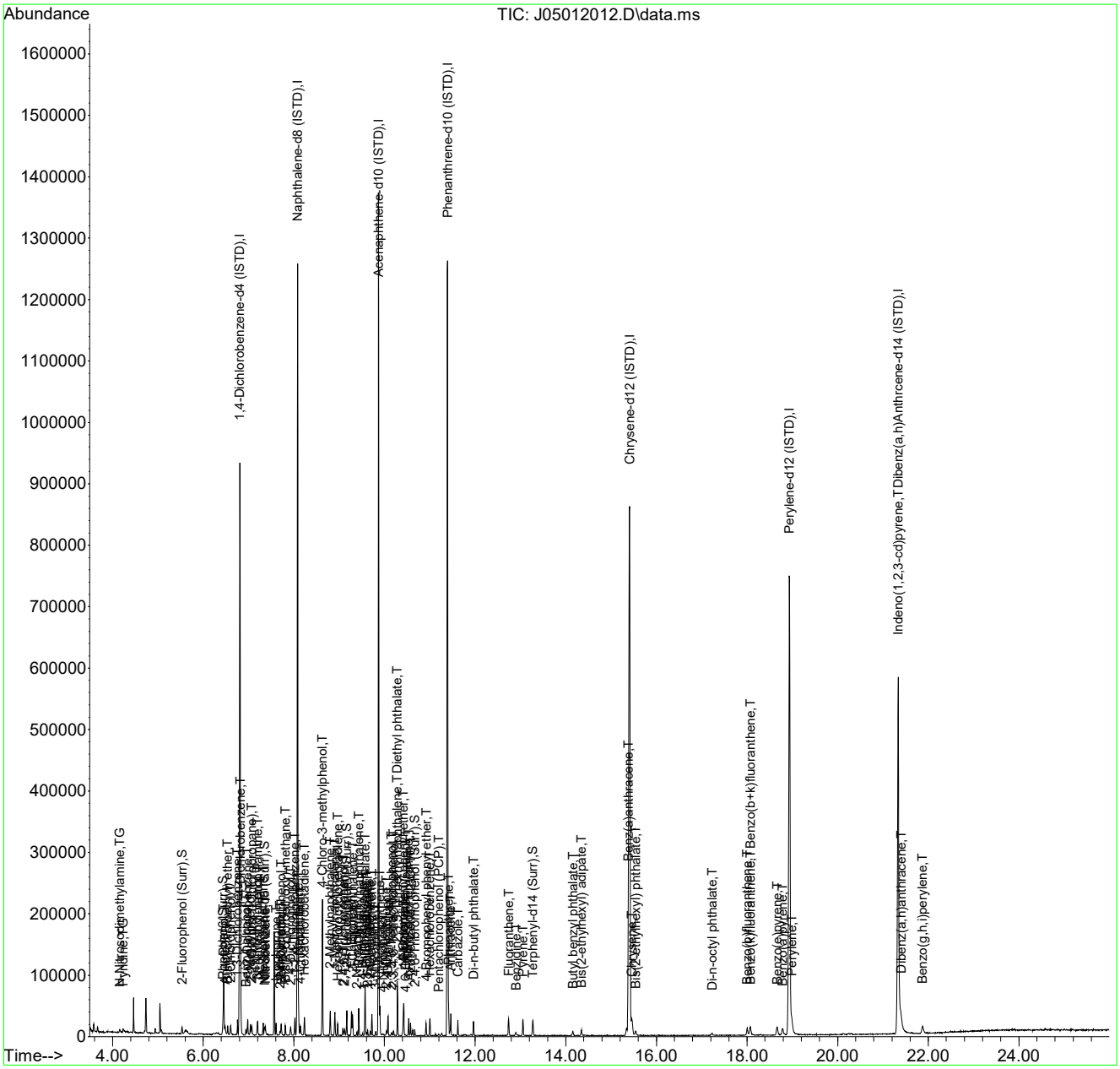
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.531	169	8596	49.83	ng/ml	91
66) Azobenzene (1,2-DPH)	10.579	77	8356	51.60	ng/ml	95
68) 4-Bromophenyl phenyl e...	10.921	248	3567	52.93	ng/ml	88
69) Hexachlorobenzene	11.002	284	5084	60.56	ng/ml	97
70) Pentachlorophenol (PCP)	11.200	266	552	92.72	ng/ml#	37
71) Phenanthrene	11.414	178	17339	54.73	ng/ml	98
72) Anthracene	11.462	178	15713	50.61	ng/ml	97
73) Carbazole	11.622	167	12342	48.80	ng/ml	97
74) Di-n-butyl phthalate	11.964	149	13365	40.23	ng/ml	97
75) Fluoranthene	12.740	202	15666	47.18	ng/ml	96
76) Benzidine	12.900	184	3900	103.87	ng/ml	94
77) Pyrene	13.056	202	16274	47.54	ng/ml	95
80) Butyl benzyl phthalate	14.157	149	3054	79.33	ng/ml	87
81) Bis(2-ethylhexyl) adipate	14.345	129	3128	81.95	ng/ml	92
82) 3,3-Dichlorobenzidine	15.345	252	6397	Below Cal		95
83) Benz(a)anthracene	15.382	228	16598	47.76	ng/ml	97
84) Chrysene	15.462	228	16614	51.93	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.543	149	3824	19.17	ng/ml	95
87) Di-n-octyl phthalate	17.227	149	4377	78.55	ng/ml	95
88) Benzo(b)fluoranthene	18.008	252	11950	45.98	ng/ml	90
89) Benzo(k)fluoranthene	18.073	252	11834	43.65	ng/ml	93
90) Benzo(b+k)fluoranthene	18.073	252	25594	91.71	ng/ml	93
91) Benzo(e)pyrene	18.666	252	12046	45.13	ng/ml	93
92) Benzo(a)pyrene	18.789	252	9823	47.20	ng/ml	92
93) Perylene	18.993	252	14498	48.57	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.335	276	14434	48.10	ng/ml	94
96) Dibenz(a,h)anthracene	21.405	278	12714	47.39	ng/ml	90
97) Benzo(g,h,i)perylene	21.875	276	11357	46.01	ng/ml	91

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012012.D
Acq On : 1 May 2020 3:53 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL2
Misc : 1x, A20D244@50
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 04 11:03:04 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	191183	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	719013	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	355600	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	645096	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	665942	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.928	264	641096	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.325	292	525064	2000.00	ng/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	10683	92.61	ng/ml	0.00
5) Phenol-d6(Surr)	6.429	99	12550	92.96	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	10384	102.80	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	31404	118.41	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.676	330	3853	124.83	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.270	244	33303	107.73	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.113	74	6960	96.36	ng/ml	90
3) Pyridine	4.172	79	9290	89.12	ng/ml	97
6) Phenol	6.445	94	12267	84.86	ng/ml	95
7) Aniline	6.477	93	13261	115.38	ng/ml	95
8) Bis(2-chloroethyl) ether	6.536	93	12128	85.83	ng/ml	96
9) 2-Chlorophenol	6.600	128	12387	99.26	ng/ml	94
10) 1,3-Dichlorobenzene	6.755	146	16686	109.79	ng/ml	98
11) 1,4-Dichlorobenzene	6.819	146	16022	106.39	ng/ml	92
12) Benzyl alcohol	6.931	108	5492	89.80	ng/ml	94
13) 1,2-Dichlorobenzene	6.974	146	15557	105.66	ng/ml	97
14) 2-Methylphenol	7.038	107	9064	98.43	ng/ml	96
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	10763	111.73	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.194	70	7313	103.69	ng/ml	93
17) 3+4-Methylphenol	7.188	107	11824	105.98	ng/ml	97
18) Hexachloroethane	7.317	201	5625	114.66	ng/ml	99
20) Nitrobenzene	7.370	77	11151	111.91	ng/ml	90
22) Isophorone	7.605	82	21958	107.44	ng/ml	95
23) 2-Nitrophenol	7.691	139	5456	123.08	ng/ml	93
24) 2,4-Dimethylphenol	7.723	122	9568	97.04	ng/ml	88

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	13856	103.95	ng/ml	91
26) Benzoic acid	7.803	105	106	846.45	ng/ml	85
27) 2,4-Dichlorophenol	7.932	162	9523	118.42	ng/ml	96
28) 1,2,4-Trichlorobenzene	8.023	180	13851	111.50	ng/ml	99
29) Naphthalene	8.103	128	41691	111.84	ng/ml	98
30) 4-Chloroaniline	8.146	127	11760	116.18	ng/ml	99
31) Hexachlorobutadiene	8.231	225	8263	118.37	ng/ml	96
32) 4-Chloro-3-methylphenol	8.627	107	7712	108.46	ng/ml	94
33) 2-Methylnaphthalene	8.803	142	28255	108.66	ng/ml	95
34) 1-Methylnaphthalene	8.905	142	27373	112.15	ng/ml	96
36) Hexachlorocyclopentadiene	8.969	237	6851	126.21	ng/ml	97
37) 2,4,6-Trichlorophenol	9.082	196	6196	118.50	ng/ml	96
38) 2,4,5-Trichlorophenol	9.119	198	5978	112.87	ng/ml	95
39) 1,1'-Biphenyl	9.274	154	33925	118.34	ng/ml	96
41) 2-Chloronaphthalene	9.296	162	26139	118.85	ng/ml	98
42) 2-Nitroaniline	9.392	138	4785	75.47	ng/ml	96
43) 2,6-Dimethylnaphthalene	9.435	156	23962	114.78	ng/ml	99
44) 1,4-Dinitrobenzene	9.515	168	1916	127.86	ng/ml	94
45) Dimethyl phthalate	9.568	163	27818	113.35	ng/ml	93
46) 1,3-Dinitrobenzene	9.600	168	2780	132.01	ng/ml	93
47) 2,6-Dinitrotoluene	9.633	165	4956	114.73	ng/ml	98
48) 1,2-Dinitrobenzene	9.691	168	2197	87.91	ng/ml	98
49) Acenaphthylene	9.723	152	38044	111.47	ng/ml	99
50) 3-Nitroaniline	9.809	138	4153	100.08	ng/ml	93
51) Acenaphthene	9.900	153	25073	108.74	ng/ml	96
52) 2,4-Dinitrophenol	9.921	184	186	190.58	ng/ml#	48
53) 4-Nitrophenol	9.964	139	1906	124.83	ng/ml	98
54) 2,4-Dinitrotoluene	10.044	165	4977	126.20	ng/ml	94
55) Dibenzofuran	10.076	168	35418	113.05	ng/ml	98
56) 2,3,5,6-Tetrachlorophenol	10.157	232	3387	104.49	ng/ml	96
57) 2,3,4,6-Tetrachlorophenol	10.199	232	4311	108.43	ng/ml	89
58) Diethyl phthalate	10.290	149	27495	118.14	ng/ml	96
59) 2,3,5-Trimethylnaphtha...	10.285	170	21856	114.15	ng/ml	100
60) Fluorene	10.429	166	27734	113.33	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.419	204	14011	115.72	ng/ml	91
62) 4-Nitroaniline	10.429	138	3272	74.14	ng/ml	85
63) 4,6-Dinitro-2-methylph...	10.462	198	765	174.23	ng/ml	68

See MF

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

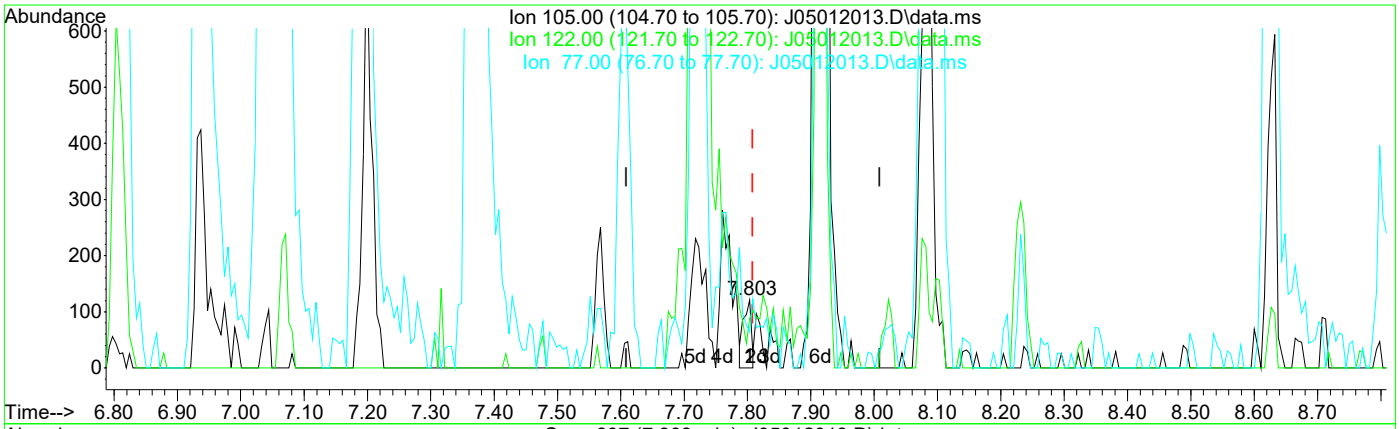
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.536	169	21618	111.75	ng/ml	98
66) Azobenzene (1,2-DPH)	10.579	77	19007	104.66	ng/ml	99
68) 4-Bromophenyl phenyl e...	10.922	248	8166	108.06	ng/ml	94
69) Hexachlorobenzene	11.002	284	11614	123.37	ng/ml	97
70) Pentachlorophenol (PCP)	11.194	266	2358	136.42	ng/ml	95
71) Phenanthrene	11.414	178	39573	111.39	ng/ml	99
72) Anthracene	11.462	178	37735	108.39	ng/ml	98
73) Carbazole	11.622	167	29809	105.10	ng/ml	98
74) Di-n-butyl phthalate	11.965	149	33644	90.31	ng/ml	99
75) Fluoranthene	12.740	202	38512	103.43	ng/ml	96
76) Benzidine	12.901	184	10676	197.83	ng/ml	96
77) Pyrene	13.056	202	40211	104.76	ng/ml	99
80) Butyl benzyl phthalate	14.152	149	8439	110.48	ng/ml	92
81) Bis(2-ethylhexyl) adipate	14.345	129	7943	113.71	ng/ml	88
82) 3,3-Dichlorobenzidine	15.334	252	16151	57.52	ng/ml	94
83) Benz(a)anthracene	15.377	228	36118	95.93	ng/ml	93
84) Chrysene	15.457	228	35070	101.18	ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.543	149	10710	49.56	ng/ml	92
87) Di-n-octyl phthalate	17.222	149	11376	95.99	ng/ml	96
88) Benzo(b)fluoranthene	18.003	252	28427	92.87	ng/ml	96
89) Benzo(k)fluoranthene	18.067	252	29681	91.95	ng/ml	96
90) Benzo(b+k)fluoranthene	18.067	252	61380	187.83	ng/ml	96
91) Benzo(e)pyrene	18.661	252	29328	95.06	ng/ml	99
92) Benzo(a)pyrene	18.784	252	22302	89.22	ng/ml	97
93) Perylene	18.987	252	31802	103.66	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.325	276	29561	95.10	ng/ml	99
96) Dibenz(a,h)anthracene	21.394	278	27359	98.44	ng/ml	93
97) Benzo(g,h,i)perylene	21.870	276	27334	95.33	ng/ml	93

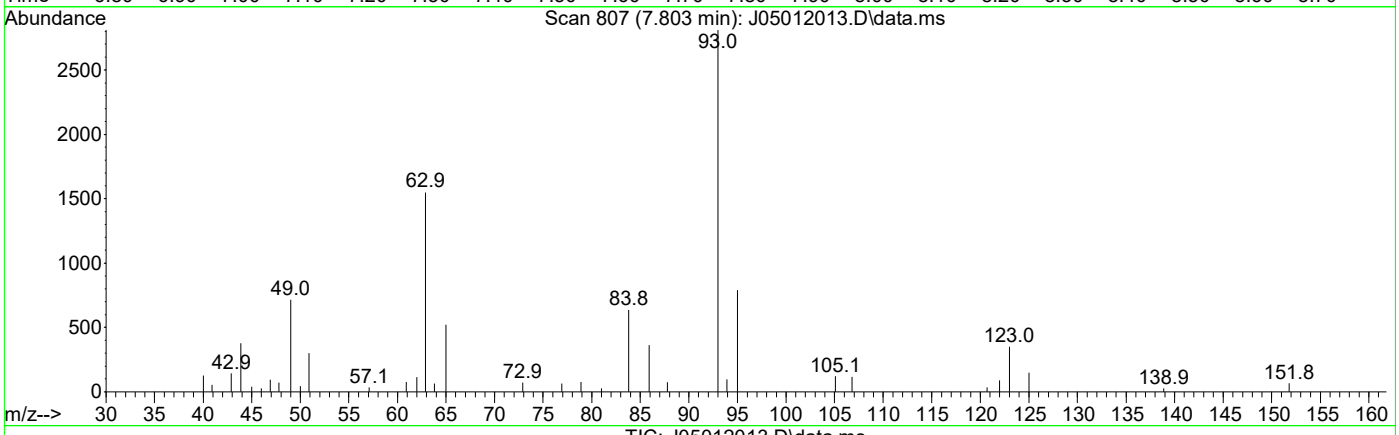
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012013.D\data.ms

(26) Benzoic acid (T)

7.803min (-0.005) 846.45 ng/ml

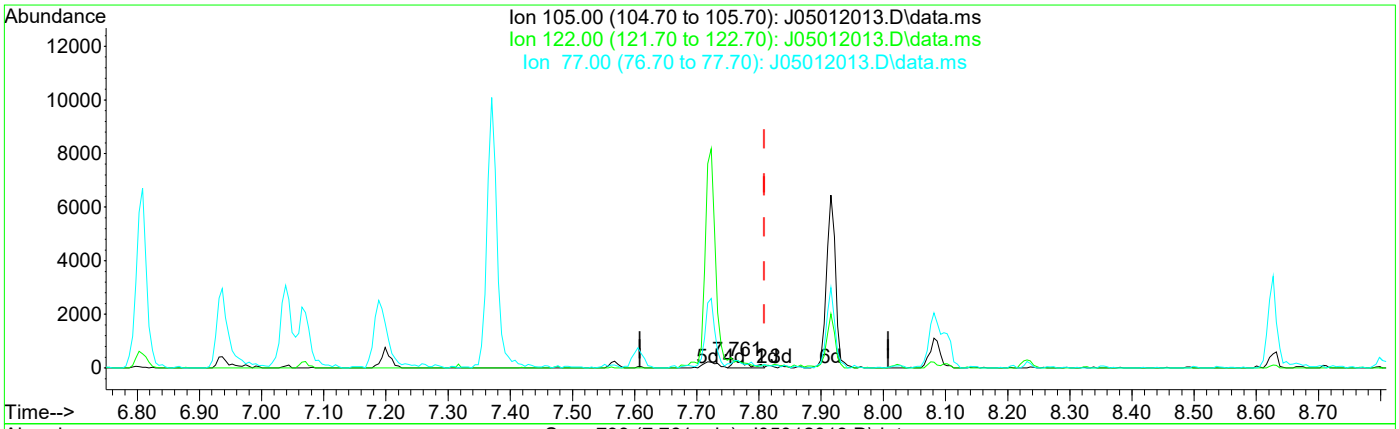
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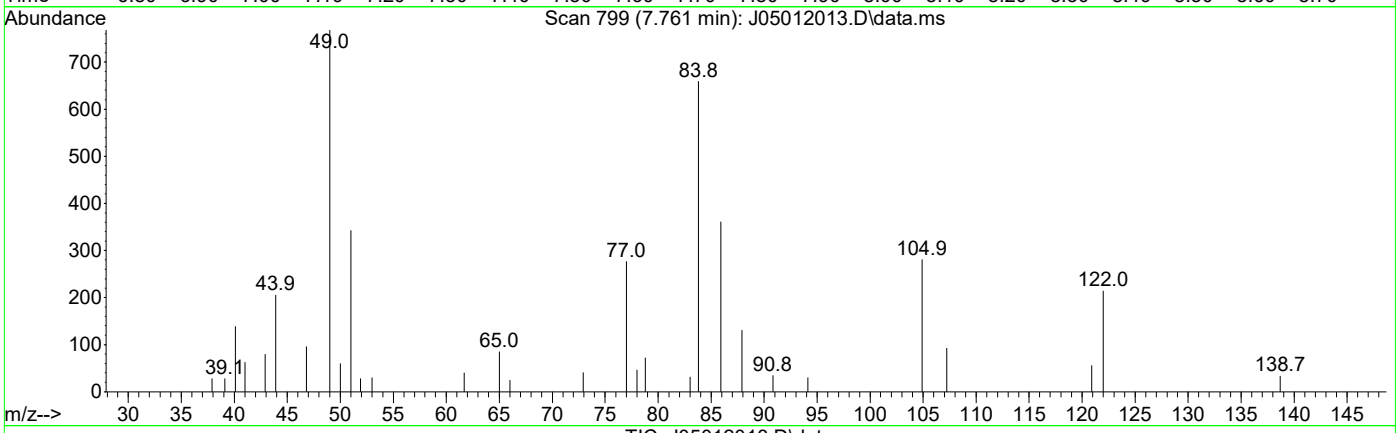
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	72.73
77.00	61.50	52.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012013.D\data.ms

(26) Benzoic acid (T)

7.761min (-0.048) 852.72 ng/ml m

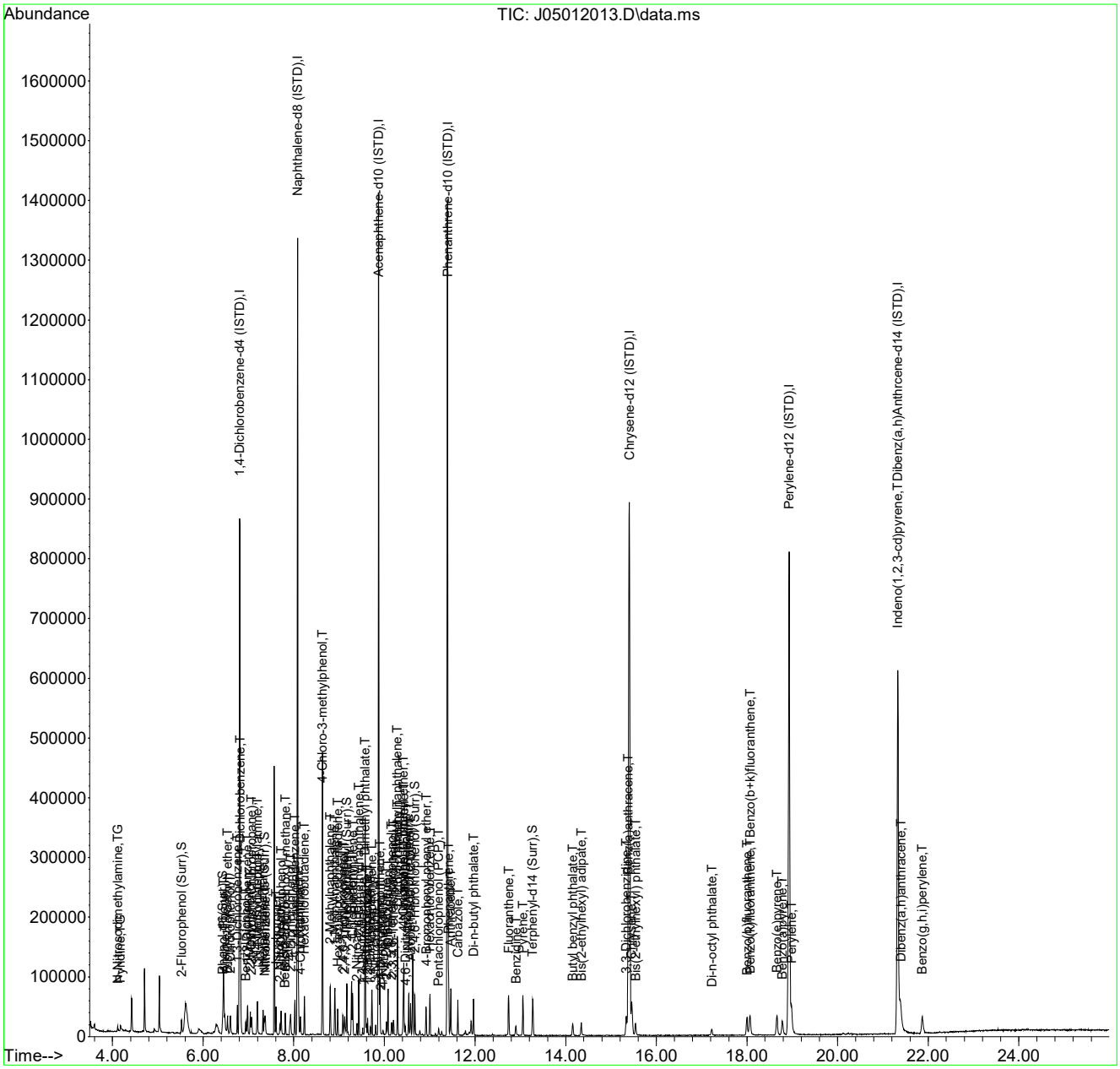
response 469

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	76.16
77.00	61.50	98.58#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	181235	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	692848	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	347809	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.387	188	635167	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.398	240	656760	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	635068	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.330	292	528573	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	21141	193.32	ng/ml	0.00
5) Phenol-d6(Surr)	6.429	99	26007	203.22	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.348	82	21119	220.55	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	60557	233.45	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	8155	233.77	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.269	244	66177	217.07	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.118	74	13019	190.15	ng/ml	93
3) Pyridine	4.166	79	20881	198.57	ng/ml	94
6) Phenol	6.445	94	29567	215.77	ng/ml	93
7) Aniline	6.482	93	27397	285.70	ng/ml	97
8) Bis(2-chloroethyl) ether	6.535	93	24922	186.05	ng/ml	91
9) 2-Chlorophenol	6.600	128	24400	206.26	ng/ml	98
10) 1,3-Dichlorobenzene	6.755	146	30392	210.94	ng/ml	97
11) 1,4-Dichlorobenzene	6.824	146	29528	206.84	ng/ml	99
12) Benzyl alcohol	6.937	108	11440	171.65	ng/ml	81
13) 1,2-Dichlorobenzene	6.979	146	30294	217.04	ng/ml	98
14) 2-Methylphenol	7.038	107	18182	208.27	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	20415	223.55	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.193	70	15112	226.03	ng/ml	96
17) 3+4-Methylphenol	7.188	107	23011	217.57	ng/ml	93
18) Hexachloroethane	7.316	201	10331	222.14	ng/ml	99
20) Nitrobenzene	7.370	77	20957	221.86	ng/ml	98
22) Isophorone	7.605	82	42630	216.46	ng/ml	96
23) 2-Nitrophenol	7.691	139	11238	228.09	ng/ml	94
24) 2,4-Dimethylphenol	7.723	122	20813	219.06	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	26612	207.18	ng/ml	97
26) Benzoic acid	7.825	105	208	848.35	ng/ml#See M	62
27) 2,4-Dichlorophenol	7.931	162	19883	225.49	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.022	180	27062	226.07	ng/ml	98
29) Naphthalene	8.103	128	81565	227.06	ng/ml	98
30) 4-Chloroaniline	8.145	127	24483	245.88	ng/ml	95
31) Hexachlorobutadiene	8.231	225	16461	244.71	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	16620	210.33	ng/ml	98
33) 2-Methylnaphthalene	8.798	142	55698	222.28	ng/ml	97
34) 1-Methylnaphthalene	8.900	142	51095	217.24	ng/ml	97
36) Hexachlorocyclopentadiene	8.969	237	13997	252.46	ng/ml	98
37) 2,4,6-Trichlorophenol	9.081	196	12664	214.01	ng/ml	99
38) 2,4,5-Trichlorophenol	9.119	198	12930	212.79	ng/ml	94
39) 1,1'-Biphenyl	9.269	154	64137	228.74	ng/ml	98
41) 2-Chloronaphthalene	9.295	162	50017	232.51	ng/ml	98
42) 2-Nitroaniline	9.392	138	10206	164.59	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.434	156	47338	231.84	ng/ml	98
44) 1,4-Dinitrobenzene	9.520	168	4549	216.60	ng/ml	96
45) Dimethyl phthalate	9.568	163	55476	231.12	ng/ml	99
46) 1,3-Dinitrobenzene	9.600	168	5993	218.24	ng/ml	97
47) 2,6-Dinitrotoluene	9.632	165	10708	219.81	ng/ml	91
48) 1,2-Dinitrobenzene	9.686	168	4556	186.38	ng/ml	76
49) Acenaphthylene	9.723	152	75817	227.13	ng/ml	99
50) 3-Nitroaniline	9.803	138	9251	207.83	ng/ml	92
51) Acenaphthene	9.900	153	50397	223.46	ng/ml	98
52) 2,4-Dinitrophenol	9.910	184	590	227.44	ng/ml	70
53) 4-Nitrophenol	9.964	139	4625	193.69	ng/ml	88
54) 2,4-Dinitrotoluene	10.044	165	11730	223.29	ng/ml	90
55) Dibenzofuran	10.076	168	69462	226.68	ng/ml	99
56) 2,3,5,6-Tetrachlorophenol	10.151	232	8629	208.84	ng/ml	92
57) 2,3,4,6-Tetrachlorophenol	10.199	232	10787	225.14	ng/ml	94
58) Diethyl phthalate	10.285	149	53766	236.20	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	44649	238.42	ng/ml	99
60) Fluorene	10.424	166	55055	230.01	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.419	204	27516	232.35	ng/ml	98
62) 4-Nitroaniline	10.429	138	7453	172.66	ng/ml	90
63) 4,6-Dinitro-2-methylph...	10.461	198	2570	250.82	ng/ml	82

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

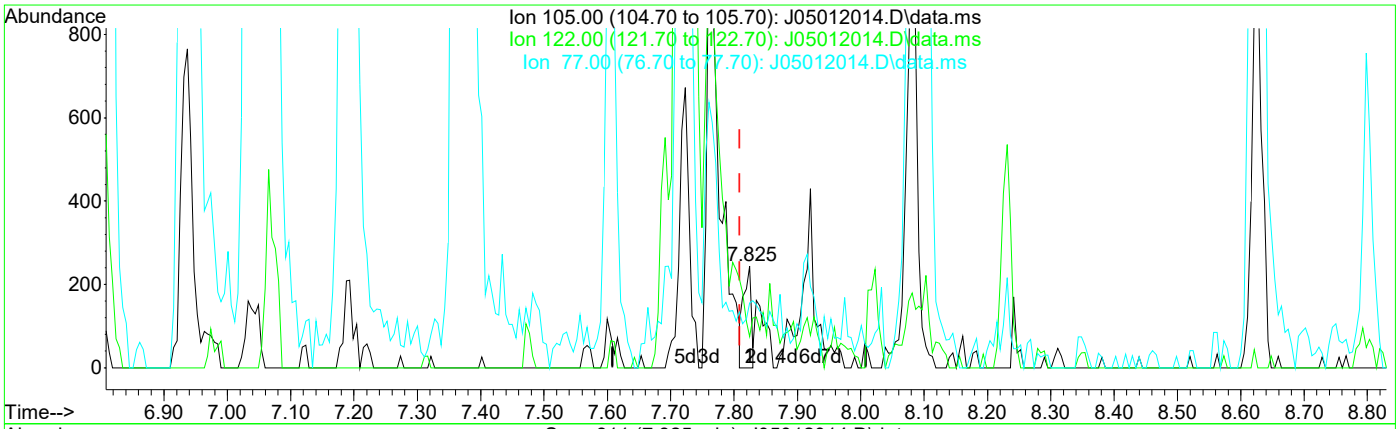
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.531	169	44173	231.91	ng/ml	98
66) Azobenzene (1,2-DPH)	10.579	77	39378	220.23	ng/ml	99
68) 4-Bromophenyl phenyl e...	10.916	248	16553	222.46	ng/ml	96
69) Hexachlorobenzene	11.002	284	22342	241.05	ng/ml	99
70) Pentachlorophenol (PCP)	11.194	266	5400	214.48	ng/ml	94
71) Phenanthrene	11.413	178	78539	224.53	ng/ml	98
72) Anthracene	11.462	178	76033	221.81	ng/ml	97
73) Carbazole	11.622	167	61914	221.71	ng/ml	98
74) Di-n-butyl phthalate	11.964	149	70740	192.85	ng/ml	100
75) Fluoranthene	12.740	202	81473	222.23	ng/ml	94
76) Benzidine	12.900	184	32317	531.99	ng/ml	98
77) Pyrene	13.055	202	83478	220.88	ng/ml	99
80) Butyl benzyl phthalate	14.157	149	19934	181.86	ng/ml	98
81) Bis(2-ethylhexyl) adipate	14.339	129	18549	189.41	ng/ml	99
82) 3,3-Dichlorobenzidine	15.334	252	34852	769.61	ng/ml	94
83) Benz(a)anthracene	15.371	228	74103	199.57	ng/ml	98
84) Chrysene	15.457	228	73042	213.67	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.543	149	28975	135.96	ng/ml	97
87) Di-n-octyl phthalate	17.227	149	29855	143.58	ng/ml	99
88) Benzo(b)fluoranthene	17.998	252	62932	194.42	ng/ml	98
89) Benzo(k)fluoranthene	18.067	252	65220	191.90	ng/ml	96
90) Benzo(b+k)fluoranthene	18.067	252	134512	391.59	ng/ml	96
91) Benzo(e)pyrene	18.656	252	64740	201.08	ng/ml	97
92) Benzo(a)pyrene	18.779	252	51841	192.35	ng/ml	99
93) Perylene	18.982	252	62205	204.69	ng/ml	97
95) Indeno(1,2,3-cd)pyrene	21.324	276	58782	187.86	ng/ml	95
96) Dibenz(a,h)anthracene	21.394	278	57576	205.79	ng/ml	97
97) Benzo(g,h,i)perylene	21.870	276	58466	192.80	ng/ml	96

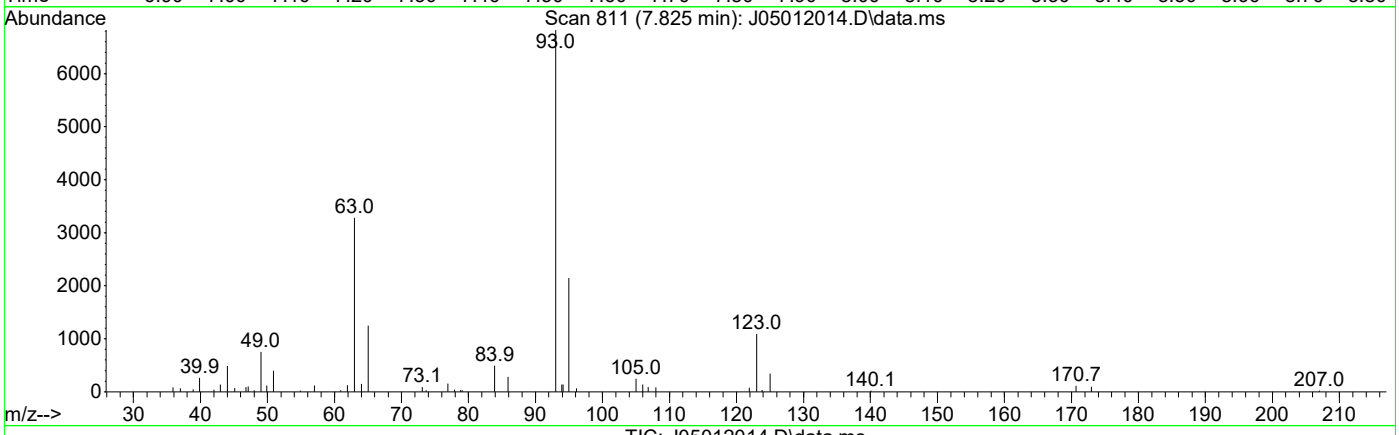
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012014.D\data.ms

(26) Benzoic acid (T)

7.825min (+ 0.016) 848.35 ng/ml

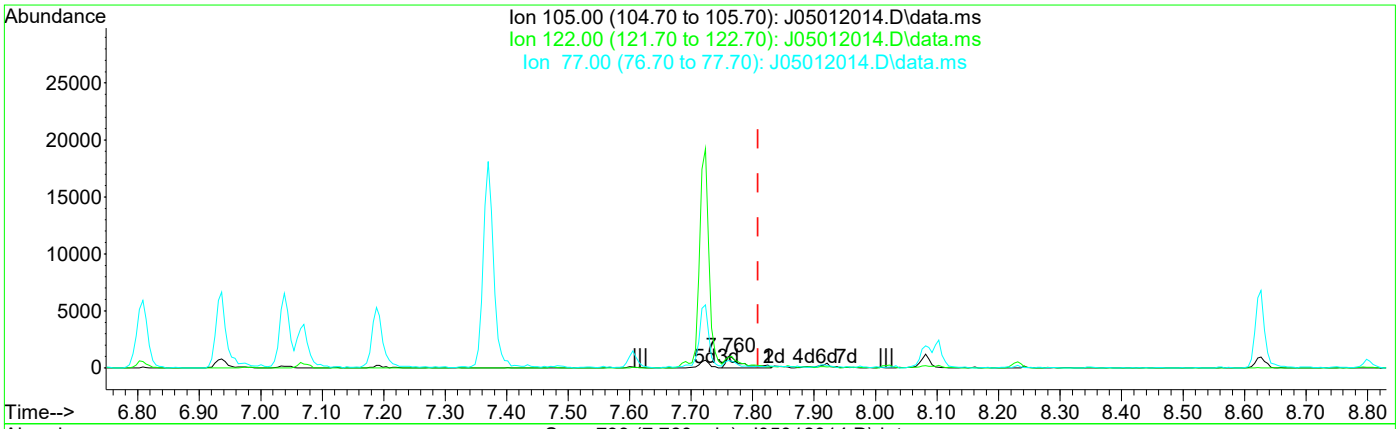
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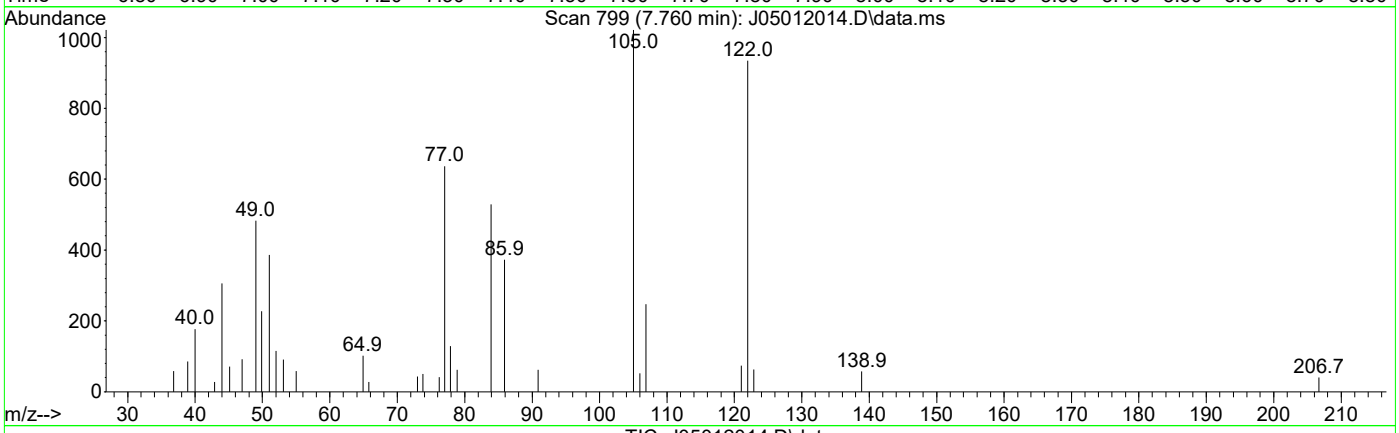
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	30.74#
77.00	61.50	63.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012014.D\data.ms

(26) Benzoic acid (T)

7.760min (-0.048) 875.35 ng/ml m

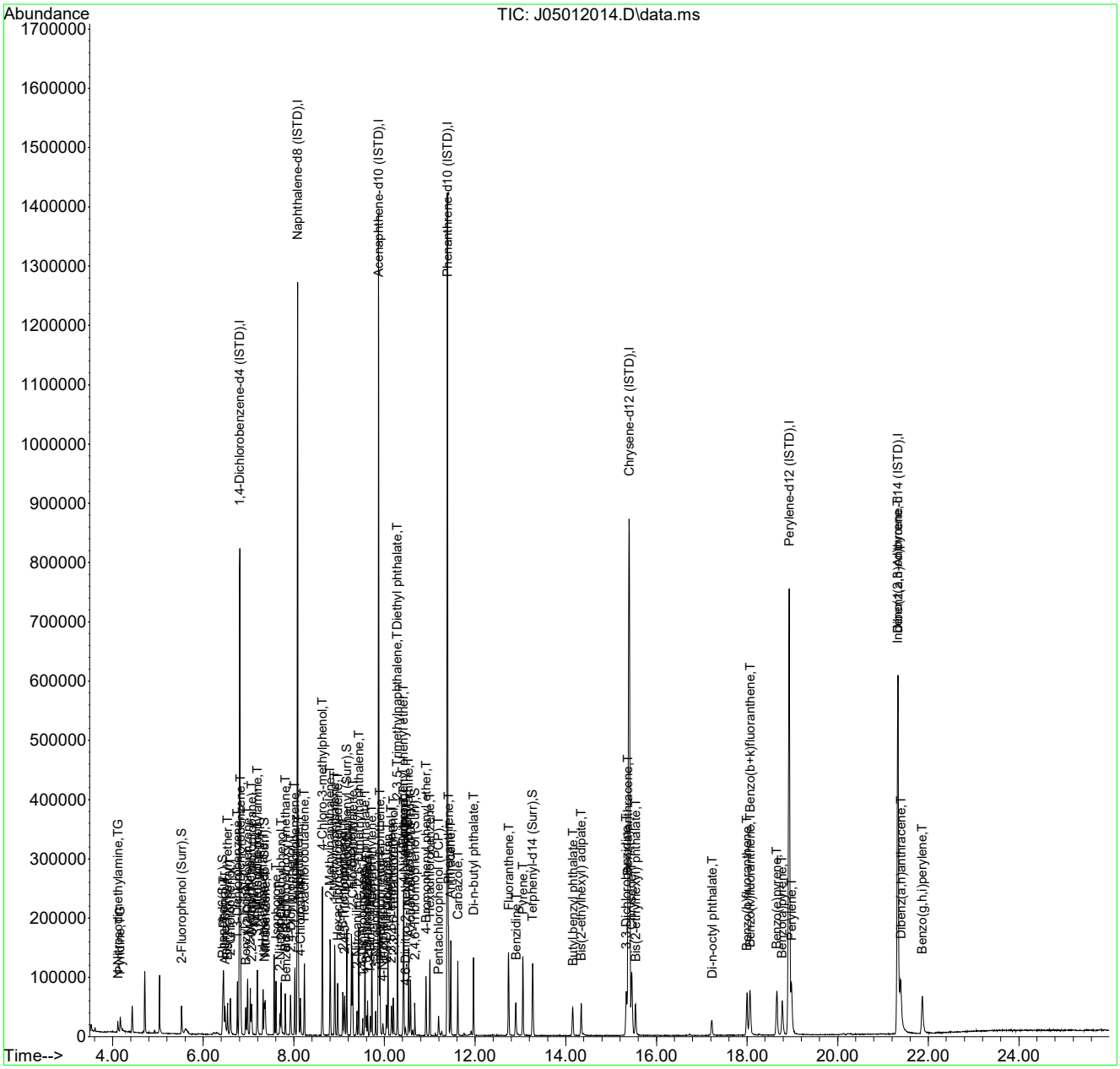
response 1715

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	91.48
77.00	61.50	62.39
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012015.D
Acq On : 1 May 2020 7:26 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL5
Misc : 1x, A20D247@500
ALS Vial : 7 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:06:02 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	183403	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	680915	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	334768	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.387	188	630899	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	644327	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	626511	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.330	292	518018	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	58252	526.38	ng/ml	0.00
5) Phenol-d6(Surr)	6.429	99	69027	533.01	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	54703	564.53	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	145387	582.31	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	22448	589.48	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.270	244	170092	568.70	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.118	74	34459	497.33	ng/ml	95
3) Pyridine	4.156	79	56059	509.43	ng/ml	91
6) Phenol	6.445	94	69878	503.92	ng/ml	94
7) Aniline	6.482	93	69692	768.83	ng/ml	98
8) Bis(2-chloroethyl) ether	6.536	93	64951	479.15	ng/ml	96
9) 2-Chlorophenol	6.600	128	66822	558.19	ng/ml	99
10) 1,3-Dichlorobenzene	6.755	146	78446	538.03	ng/ml	98
11) 1,4-Dichlorobenzene	6.824	146	76922	532.46	ng/ml	98
12) Benzyl alcohol	6.931	108	33612	457.14	ng/ml	91
13) 1,2-Dichlorobenzene	6.980	146	76724	543.20	ng/ml	98
14) 2-Methylphenol	7.038	107	48344	547.23	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	51146	553.45	ng/ml	95
16) N-Nitrosodi-n-propylamine	7.194	70	37629	556.16	ng/ml	97
17) 3+4-Methylphenol	7.188	107	61306	572.81	ng/ml	97
18) Hexachloroethane	7.317	201	27570	585.81	ng/ml	97
20) Nitrobenzene	7.370	77	56770	593.89	ng/ml	95
22) Isophorone	7.605	82	106164	548.51	ng/ml	97
23) 2-Nitrophenol	7.691	139	33472	623.32	ng/ml	93
24) 2,4-Dimethylphenol	7.723	122	53592	573.96	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012015.D
Acq On : 1 May 2020 7:26 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL5
Misc : 1x, A20D247@500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 04 11:06:02 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	67001	530.76	ng/ml	98
26) Benzoic acid	7.782	105	14918	1114.70	ng/ml	94
27) 2,4-Dichlorophenol	7.932	162	53024	566.06	ng/ml	98
28) 1,2,4-Trichlorobenzene	8.023	180	67284	571.93	ng/ml	99
29) Naphthalene	8.103	128	198240	561.54	ng/ml	100
30) 4-Chloroaniline	8.146	127	64457	693.03	ng/ml	97
31) Hexachlorobutadiene	8.231	225	40832	617.66	ng/ml	97
32) 4-Chloro-3-methylphenol	8.622	107	45413	536.86	ng/ml	98
33) 2-Methylnaphthalene	8.803	142	132345	537.43	ng/ml	97
34) 1-Methylnaphthalene	8.905	142	123884	535.96	ng/ml	99
36) Hexachlorocyclopentadiene	8.969	237	36462	661.90	ng/ml	98
37) 2,4,6-Trichlorophenol	9.082	196	36271	574.82	ng/ml	96
38) 2,4,5-Trichlorophenol	9.119	198	36303	563.12	ng/ml	99
39) 1,1'-Biphenyl	9.269	154	153742	569.68	ng/ml	99
41) 2-Chloronaphthalene	9.296	162	117743	568.66	ng/ml	96
42) 2-Nitroaniline	9.392	138	30298	507.64	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.435	156	111733	568.53	ng/ml	97
44) 1,4-Dinitrobenzene	9.520	168	13891	540.06	ng/ml	94
45) Dimethyl phthalate	9.568	163	132075	571.68	ng/ml	99
46) 1,3-Dinitrobenzene	9.600	168	18060	553.58	ng/ml	98
47) 2,6-Dinitrotoluene	9.633	165	28845	565.37	ng/ml	97
48) 1,2-Dinitrobenzene	9.691	168	13224	562.04	ng/ml	93
49) Acenaphthylene	9.723	152	183911	572.42	ng/ml	99
50) 3-Nitroaniline	9.804	138	25545	602.46	ng/ml	97
51) Acenaphthene	9.900	153	118657	546.61	ng/ml	98
52) 2,4-Dinitrophenol	9.911	184	4171	542.34	ng/ml	86
53) 4-Nitrophenol	9.964	139	16246	496.81	ng/ml	89
54) 2,4-Dinitrotoluene	10.044	165	34026	557.52	ng/ml	96
55) Dibenzofuran	10.076	168	164955	559.27	ng/ml	99
56) 2,3,5,6-Tetrachlorophenol	10.157	232	27343	590.35	ng/ml	99
57) 2,3,4,6-Tetrachlorophenol	10.199	232	29826	581.25	ng/ml	99
58) Diethyl phthalate	10.285	149	129544	591.28	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	108132	599.91	ng/ml	99
60) Fluorene	10.424	166	135494	588.11	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.419	204	66625	584.51	ng/ml	98
62) 4-Nitroaniline	10.429	138	18421	443.38	ng/ml	95
63) 4,6-Dinitro-2-methylph...	10.462	198	11323	621.07	ng/ml	94

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012015.D
Acq On : 1 May 2020 7:26 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL5
Misc : 1x, A20D247@500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 04 11:06:02 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

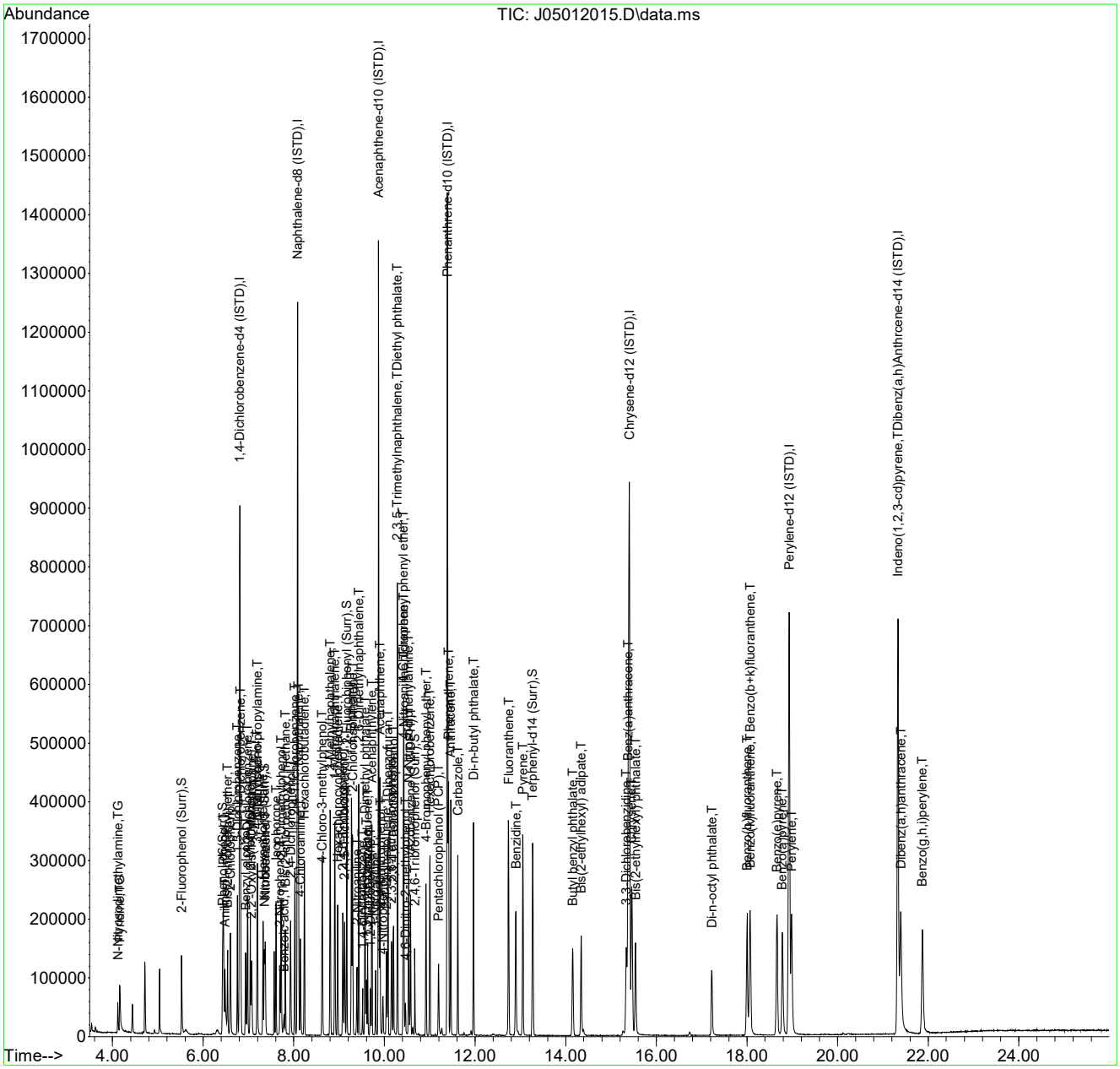
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.531	169	110562	584.38	ng/ml	99
66) Azobenzene (1,2-DPH)	10.579	77	97518	549.08	ng/ml	95
68) 4-Bromophenyl phenyl e...	10.916	248	41767	565.13	ng/ml	98
69) Hexachlorobenzene	11.002	284	53003	575.72	ng/ml	99
70) Pentachlorophenol (PCP)	11.194	266	18897	552.83	ng/ml	97
71) Phenanthrene	11.414	178	192437	553.88	ng/ml	99
72) Anthracene	11.462	178	189259	555.86	ng/ml	97
73) Carbazole	11.622	167	158571	571.68	ng/ml	99
74) Di-n-butyl phthalate	11.965	149	192660	528.78	ng/ml	99
75) Fluoranthene	12.740	202	207862	570.81	ng/ml	97
76) Benzidine	12.901	184	122263	1997.96	ng/ml	97
77) Pyrene	13.056	202	219139	583.76	ng/ml	99
80) Butyl benzyl phthalate	14.152	149	64881	464.35	ng/ml	93
81) Bis(2-ethylhexyl) adipate	14.339	129	58573	478.88	ng/ml	97
82) 3,3-Dichlorobenzidine	15.334	252	70720	2108.71	ng/ml	97
83) Benz(a)anthracene	15.377	228	188950	518.68	ng/ml	100
84) Chrysene	15.457	228	182412	543.91	ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.543	149	94935	454.07	ng/ml	97
87) Di-n-octyl phthalate	17.222	149	120023	378.52	ng/ml	98
88) Benzo(b)fluoranthene	18.003	252	178050	533.80	ng/ml	98
89) Benzo(k)fluoranthene	18.067	252	184628	534.73	ng/ml	98
90) Benzo(b+k)fluoranthene	18.067	252	374428	1067.55	ng/ml	98
91) Benzo(e)pyrene	18.661	252	173884	531.44	ng/ml	97
92) Benzo(a)pyrene	18.779	252	149810	536.70	ng/ml	98
93) Perylene	18.987	252	160709	536.05	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.330	276	152136	496.11	ng/ml	93
96) Dibenz(a,h)anthracene	21.394	278	148631	542.08	ng/ml	95
97) Benzo(g,h,i)perylene	21.870	276	158826	519.73	ng/ml	96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012015.D
Acq On : 1 May 2020 7:26 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL5
Misc : 1x, A20D247@500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 04 11:06:02 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012016.D
Acq On : 1 May 2020 8:01 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL6
Misc : 1x, A20D248@1000
ALS Vial : 8 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:06:45 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	180245	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	673130	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	339213	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	643209	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	647204	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.928	264	635590	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.335	292	543591	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	113423	1042.87	ng/ml	0.00
5) Phenol-d6(Surr)	6.434	99	138996	1092.10	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	110753	1162.99	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	281689	1113.44	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	47944	1181.73	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.270	244	335419	1116.48	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.113	74	66004	969.30	ng/ml	89
3) Pyridine	4.150	79	106090	965.93	ng/ml	96
6) Phenol	6.445	94	138337	1015.08	ng/ml	92
7) Aniline	6.482	93	134013	1558.02	ng/ml	95
8) Bis(2-chloroethyl) ether	6.536	93	129066	968.82	ng/ml	95
9) 2-Chlorophenol	6.600	128	130032	1105.24	ng/ml	99
10) 1,3-Dichlorobenzene	6.755	146	148363	1035.39	ng/ml	99
11) 1,4-Dichlorobenzene	6.824	146	142848	1006.12	ng/ml	99
12) Benzyl alcohol	6.931	108	71211	958.96	ng/ml	96
13) 1,2-Dichlorobenzene	6.980	146	142058	1023.37	ng/ml	98
14) 2-Methylphenol	7.038	107	95275	1097.37	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.071	45	96994	1067.97	ng/ml	99
16) N-Nitrosodi-n-propylamine	7.199	70	73246	1101.55	ng/ml	97
17) 3+4-Methylphenol	7.188	107	121441	1154.56	ng/ml	96
18) Hexachloroethane	7.317	201	52010	1124.48	ng/ml	98
20) Nitrobenzene	7.370	77	106757	1136.38	ng/ml	97
22) Isophorone	7.605	82	207129	1082.54	ng/ml	97
23) 2-Nitrophenol	7.691	139	70564	1272.93	ng/ml	94
24) 2,4-Dimethylphenol	7.723	122	106366	1152.33	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012016.D
Acq On : 1 May 2020 8:01 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL6
Misc : 1x, A20D248@1000
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 11:06:45 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	128175	1027.10	ng/ml	99
26) Benzoic acid	7.809	105	56683	1860.33	ng/ml	97
27) 2,4-Dichlorophenol	7.932	162	105774	1114.64	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.023	180	128491	1104.84	ng/ml	97
29) Naphthalene	8.103	128	377684	1082.21	ng/ml	99
30) 4-Chloroaniline	8.146	127	129616	1686.64	ng/ml	96
31) Hexachlorobutadiene	8.231	225	77201	1181.31	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	90591	1051.36	ng/ml	99
33) 2-Methylnaphthalene	8.803	142	257721	1058.66	ng/ml	99
34) 1-Methylnaphthalene	8.905	142	237648	1040.02	ng/ml	98
36) Hexachlorocyclopentadiene	8.969	237	73630	1295.07	ng/ml	98
37) 2,4,6-Trichlorophenol	9.082	196	75420	1143.21	ng/ml	99
38) 2,4,5-Trichlorophenol	9.119	198	73502	1097.16	ng/ml	99
39) 1,1'-Biphenyl	9.274	154	301856	1103.84	ng/ml	98
41) 2-Chloronaphthalene	9.296	162	230860	1100.36	ng/ml	97
42) 2-Nitroaniline	9.392	138	65577	1084.33	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.435	156	218308	1096.27	ng/ml	98
44) 1,4-Dinitrobenzene	9.520	168	31602	1111.54	ng/ml	92
45) Dimethyl phthalate	9.574	163	259401	1108.09	ng/ml	99
46) 1,3-Dinitrobenzene	9.600	168	37452	1066.14	ng/ml	97
47) 2,6-Dinitrotoluene	9.633	165	57671	1089.22	ng/ml	90
48) 1,2-Dinitrobenzene	9.691	168	27052	1134.68	ng/ml	92
49) Acenaphthylene	9.723	152	352233	1081.95	ng/ml	99
50) 3-Nitroaniline	9.809	138	50804	1356.66	ng/ml	95
51) Acenaphthene	9.900	153	231769	1053.69	ng/ml	99
52) 2,4-Dinitrophenol	9.911	184	13736	1228.58	ng/ml	93
53) 4-Nitrophenol	9.964	139	38821	1053.28	ng/ml	93
54) 2,4-Dinitrotoluene	10.044	165	72794	1113.43	ng/ml	93
55) Dibenzofuran	10.076	168	321608	1076.10	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	10.157	232	61190	1229.34	ng/ml	96
57) 2,3,4,6-Tetrachlorophenol	10.199	232	62656	1158.89	ng/ml	97
58) Diethyl phthalate	10.290	149	247936	1116.83	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	203355	1113.42	ng/ml	99
60) Fluorene	10.429	166	252058	1079.73	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.419	204	126110	1091.88	ng/ml	98
62) 4-Nitroaniline	10.429	138	38891	923.80	ng/ml	97
63) 4,6-Dinitro-2-methylph...	10.462	198	30354	1328.70	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012016.D
Acq On : 1 May 2020 8:01 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL6
Misc : 1x, A20D248@1000
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 11:06:45 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

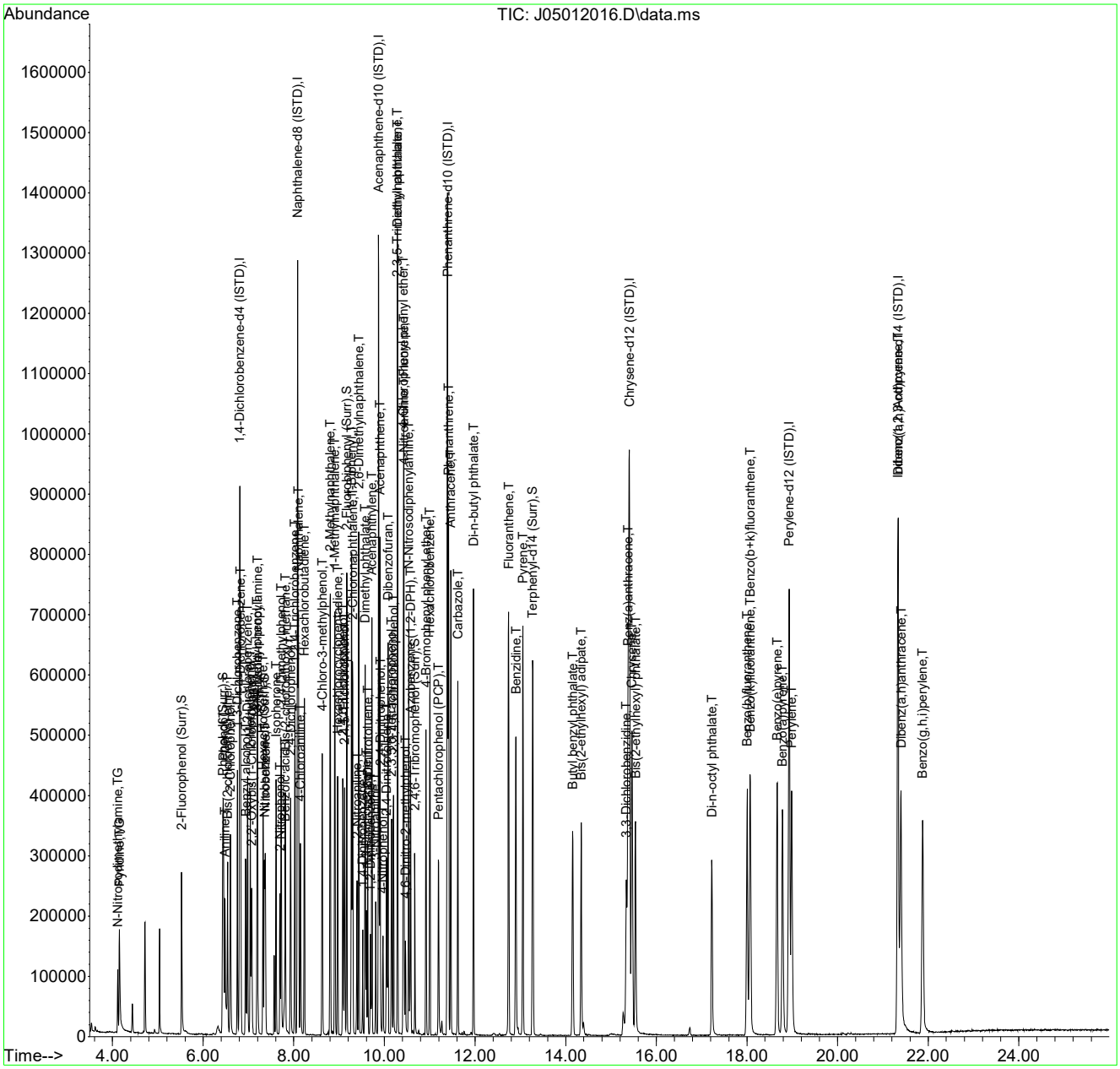
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.536	169	214512	1112.12	ng/ml	99
66) Azobenzene (1,2-DPH)	10.579	77	191839	1059.49	ng/ml	97
68) 4-Bromophenyl phenyl e...	10.916	248	81757	1085.04	ng/ml	98
69) Hexachlorobenzene	11.002	284	102514	1092.19	ng/ml	99
70) Pentachlorophenol (PCP)	11.194	266	45305	1162.50	ng/ml	99
71) Phenanthrene	11.414	178	374187	1056.38	ng/ml	99
72) Anthracene	11.462	178	374197	1078.00	ng/ml	98
73) Carbazole	11.622	167	298950	1057.15	ng/ml	99
74) Di-n-butyl phthalate	11.965	149	394866	1063.01	ng/ml	99
75) Fluoranthene	12.740	202	422934	1139.20	ng/ml	97
76) Benzidine	12.901	184	273104	4702.92	ng/ml	97
77) Pyrene	13.056	202	423172	1105.70	ng/ml	100
80) Butyl benzyl phthalate	14.152	149	145488	956.98	ng/ml	95
81) Bis(2-ethylhexyl) adipate	14.339	129	123453	936.11	ng/ml	97
82) 3,3-Dichlorobenzidine	15.334	252	118777	3746.07	ng/ml	96
83) Benz(a)anthracene	15.377	228	376853	1029.89	ng/ml	99
84) Chrysene	15.463	228	354860	1053.41	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.543	149	203493	968.96	ng/ml	97
87) Di-n-octyl phthalate	17.222	149	298544	830.02	ng/ml	100
88) Benzo(b)fluoranthene	18.003	252	358795	1036.82	ng/ml	98
89) Benzo(k)fluoranthene	18.067	252	369147	1053.24	ng/ml	97
90) Benzo(b+k)fluoranthene	18.067	252	750435	2084.96	ng/ml	97
91) Benzo(e)pyrene	18.666	252	349256	1040.24	ng/ml	99
92) Benzo(a)pyrene	18.784	252	308919	1069.40	ng/ml	99
93) Perylene	18.987	252	315421	1037.07	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.330	276	307747	956.33	ng/ml	92
96) Dibenz(a,h)anthracene	21.400	278	300075	1042.93	ng/ml	93
97) Benzo(g,h,i)perylene	21.876	276	328120	1017.15	ng/ml	97

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012016.D
Acq On : 1 May 2020 8:01 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL6
Misc : 1x, A20D248@1000
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 11:06:45 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012017.D
Acq On : 1 May 2020 8:36 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL7
Misc : 1x, A20D249@2000
ALS Vial : 9 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:07:48 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	178407	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	652077	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.873	162	336578	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	643513	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.430	240	635452	2000.00	ng/ml	0.03
86) Perylene-d12 (ISTD)	18.955	264	617587	2000.00	ng/ml	0.03
94) Dibenz(a,h)Anthrcene-d...	21.362	292	539634	2000.00	ng/ml	0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	234424	2177.62	ng/ml	0.00
5) Phenol-d6(Surr)	6.434	99	278467	2210.48	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	215838	2289.82	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.172	172	535435	2133.01	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.675	330	99669	2342.87	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.286	244	649225	2200.99	ng/ml	0.02
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.107	74	134599	1997.01	ng/ml	90
3) Pyridine	4.139	79	226549	2040.44	ng/ml	92
6) Phenol	6.450	94	295844	2193.19	ng/ml	92
7) Aniline	6.482	93	268100	3304.75	ng/ml	97
8) Bis(2-chloroethyl) ether	6.541	93	257343	1951.61	ng/ml	97
9) 2-Chlorophenol	6.605	128	256829	2205.47	ng/ml	98
10) 1,3-Dichlorobenzene	6.755	146	286729	2021.63	ng/ml	98
11) 1,4-Dichlorobenzene	6.824	146	284248	2022.67	ng/ml	99
12) Benzyl alcohol	6.937	108	148637	1990.86	ng/ml	93
13) 1,2-Dichlorobenzene	6.979	146	273037	1987.20	ng/ml	95
14) 2-Methylphenol	7.044	107	186846	2174.25	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	183240	2038.38	ng/ml	99
16) N-Nitrosodi-n-propylamine	7.204	70	142353	2162.90	ng/ml	97
17) 3+4-Methylphenol	7.193	107	235635	2263.30	ng/ml	96
18) Hexachloroethane	7.322	201	105262	2299.27	ng/ml	95
20) Nitrobenzene	7.375	77	211732	2277.01	ng/ml	98
22) Isophorone	7.611	82	400253	2159.42	ng/ml	98
23) 2-Nitrophenol	7.696	139	130953	2344.32	ng/ml	94
24) 2,4-Dimethylphenol	7.728	122	197821	2212.31	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012017.D
Acq On : 1 May 2020 8:36 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL7
Misc : 1x, A20D249@2000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 04 11:07:48 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.819	93	249308	2062.27	ng/ml	98
26) Benzoic acid	7.841	105	167185	3774.99	ng/ml	97
27) 2,4-Dichlorophenol	7.937	162	210329	2257.83	ng/ml	98
28) 1,2,4-Trichlorobenzene	8.022	180	239774	2128.29	ng/ml	96
29) Naphthalene	8.103	128	693722	2051.96	ng/ml	100
30) 4-Chloroaniline	8.151	127	238318	Below Cal		96
31) Hexachlorobutadiene	8.231	225	146383	2312.23	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	184384	2155.66	ng/ml	98
33) 2-Methylnaphthalene	8.803	142	493469	2092.51	ng/ml	97
34) 1-Methylnaphthalene	8.905	142	451130	2038.03	ng/ml	98
36) Hexachlorocyclopentadiene	8.975	237	147214	2544.54	ng/ml	97
37) 2,4,6-Trichlorophenol	9.087	196	145792	2183.83	ng/ml	96
38) 2,4,5-Trichlorophenol	9.119	198	150181	2237.43	ng/ml	96
39) 1,1'-Biphenyl	9.274	154	564946	2082.09	ng/ml	99
41) 2-Chloronaphthalene	9.301	162	434449	2086.95	ng/ml	95
42) 2-Nitroaniline	9.397	138	136747	2278.85	ng/ml	94
43) 2,6-Dimethylnaphthalene	9.440	156	412298	2086.62	ng/ml	96
44) 1,4-Dinitrobenzene	9.525	168	69428	2296.63	ng/ml	91
45) Dimethyl phthalate	9.579	163	499048	2148.48	ng/ml	99
46) 1,3-Dinitrobenzene	9.606	168	79439	2193.27	ng/ml	97
47) 2,6-Dinitrotoluene	9.638	165	118828	2235.35	ng/ml	93
48) 1,2-Dinitrobenzene	9.697	168	55084	2328.55	ng/ml	86
49) Acenaphthylene	9.729	152	673465	2084.87	ng/ml	99
50) 3-Nitroaniline	9.814	138	95947	Below Cal		94
51) Acenaphthene	9.905	153	440129	2016.62	ng/ml	99
52) 2,4-Dinitrophenol	9.916	184	39777	2644.51	ng/ml	93
53) 4-Nitrophenol	9.969	139	83836	2150.35	ng/ml	84
54) 2,4-Dinitrotoluene	10.050	165	152328	2284.79	ng/ml	94
55) Dibenzofuran	10.082	168	619598	2089.41	ng/ml	98
56) 2,3,5,6-Tetrachlorophenol	10.157	232	128576	2455.89	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.205	232	129498	2334.92	ng/ml	99
58) Diethyl phthalate	10.296	149	455636	2068.49	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.290	170	378517	2088.70	ng/ml	96
60) Fluorene	10.429	166	480963	2076.40	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.419	204	244428	2132.86	ng/ml	95
62) 4-Nitroaniline	10.440	138	76264	1825.73	ng/ml	91
63) 4,6-Dinitro-2-methylph...	10.472	198	72474	2687.95	ng/ml	94

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012017.D
Acq On : 1 May 2020 8:36 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL7
Misc : 1x, A20D249@2000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 04 11:07:48 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

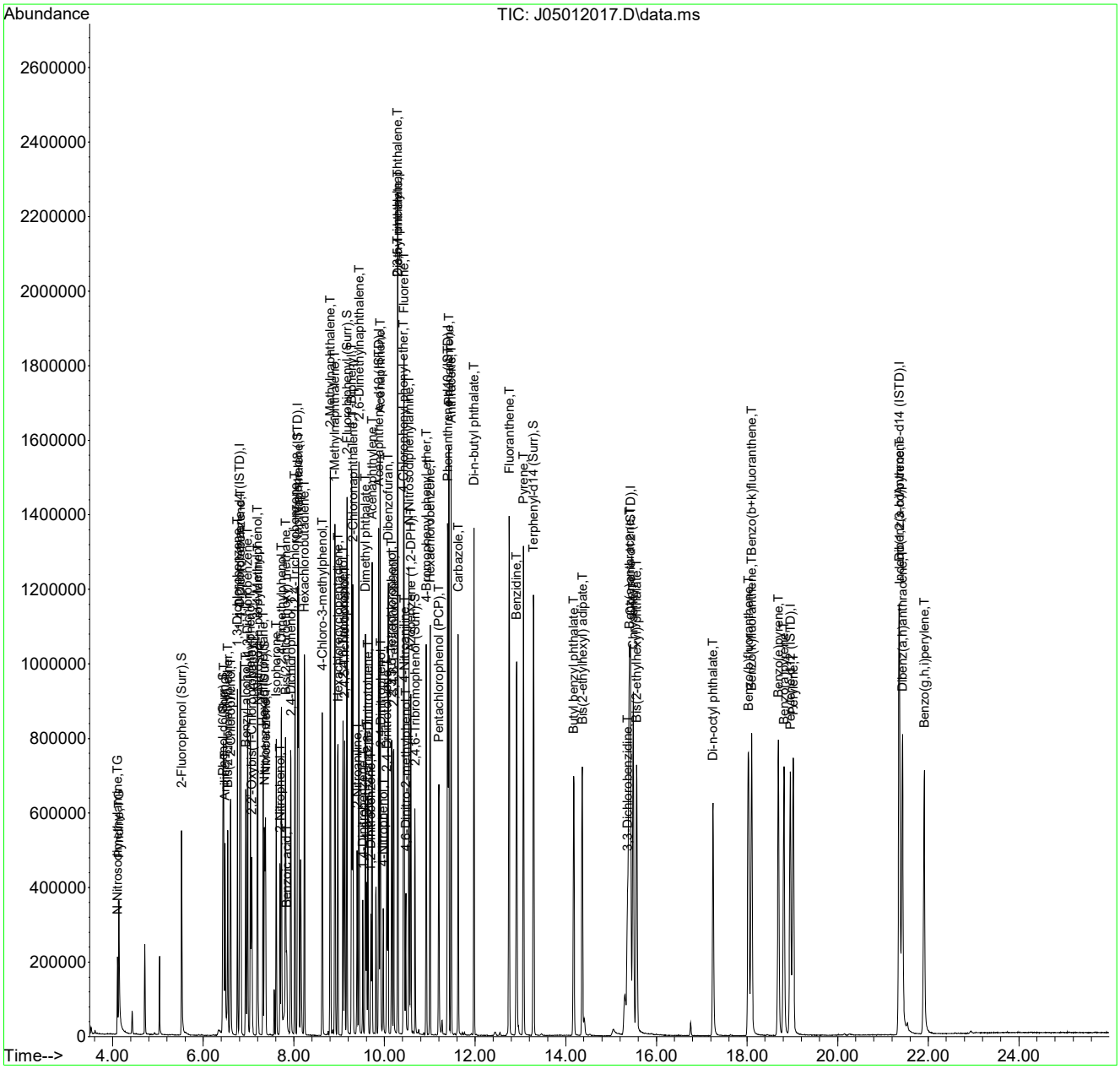
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.542	169	408855	2118.67	ng/ml	98
66) Azobenzene (1,2-DPH)	10.584	77	372273	2055.02	ng/ml	98
68) 4-Bromophenyl phenyl e...	10.921	248	163489	2168.72	ng/ml	98
69) Hexachlorobenzene	11.007	284	195498	2081.86	ng/ml	99
70) Pentachlorophenol (PCP)	11.200	266	103626	2415.54	ng/ml	100
71) Phenanthrene	11.419	178	702306	1981.77	ng/ml	100
72) Anthracene	11.472	178	712315	2051.10	ng/ml	99
73) Carbazole	11.627	167	523258	1849.48	ng/ml	100
74) Di-n-butyl phthalate	11.975	149	751793	2022.94	ng/ml	99
75) Fluoranthene	12.751	202	825251	2221.81	ng/ml	97
76) Benzidine	12.916	184	596002	15899.55	ng/ml	97
77) Pyrene	13.072	202	829284	2165.80	ng/ml	100
80) Butyl benzyl phthalate	14.173	149	304776	1946.78	ng/ml	95
81) Bis(2-ethylhexyl) adipate	14.366	129	263361	1943.41	ng/ml	98
82) 3,3-Dichlorobenzidine	15.366	252	178328	5753.38	ng/ml	97
83) Benz(a)anthracene	15.404	228	742522	2066.75	ng/ml	99
84) Chrysene	15.489	228	694601	2100.07	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.564	149	423910	2055.84	ng/ml	97
87) Di-n-octyl phthalate	17.254	149	680919	1854.68	ng/ml	98
88) Benzo(b)fluoranthene	18.035	252	746356	2147.19	ng/ml	97
89) Benzo(k)fluoranthene	18.105	252	719032	2141.02	ng/ml	96
90) Benzo(b+k)fluoranthene	18.105	252	1502107	4252.61	ng/ml	96
91) Benzo(e)pyrene	18.693	252	695034	2106.60	ng/ml	98
92) Benzo(a)pyrene	18.816	252	620228	2160.55	ng/ml	99
93) Perylene	19.019	252	616962	2087.64	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.367	276	624900	1956.13	ng/ml	91
96) Dibenz(a,h)anthracene	21.432	278	601594	2106.21	ng/ml	93
97) Benzo(g,h,i)perylene	21.913	276	669317	2091.74	ng/ml	93

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012017.D
Acq On : 1 May 2020 8:36 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL7
Misc : 1x, A20D249@2000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 04 11:07:48 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.809	152	174907	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.087	136	635505	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.873	162	321338	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	626814	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.431	240	616881	2000.00	ng/ml	0.03
86) Perylene-d12 (ISTD)	18.961	264	609005	2000.00	ng/ml	0.03
94) Dibenz(a,h)Anthrcene-d...	21.373	292	544489	2000.00	ng/ml	0.04
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	452073	4283.45	ng/ml	0.00
5) Phenol-d6(Surr)	6.445	99	522506	4230.67	ng/ml	0.01
19) Nitrobenzene-d5 (Surr)	7.359	82	401506	4344.80	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.173	172	947130	3952.02	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.681	330	195059	4413.52	ng/ml	0.01
79) Terphenyl-d14 (Surr)	13.286	244	1222290	4268.53	ng/ml	0.02
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.123	74	262941	3979.25	ng/ml	92
3) Pyridine	4.145	79	442936	3948.33	ng/ml	93
6) Phenol	6.455	94	551221	4168.16	ng/ml	87
7) Aniline	6.488	93	545033	7636.29	ng/ml	97
8) Bis(2-chloroethyl) ether	6.546	93	449460	3476.78	ng/ml	95
9) 2-Chlorophenol	6.605	128	484213	4241.29	ng/ml	99
10) 1,3-Dichlorobenzene	6.755	146	535315	3849.86	ng/ml	97
11) 1,4-Dichlorobenzene	6.830	146	520387	3777.11	ng/ml	98
12) Benzyl alcohol	6.942	108	285840	3857.82	ng/ml	93
13) 1,2-Dichlorobenzene	6.980	146	496140	3683.23	ng/ml	97
14) 2-Methylphenol	7.044	107	341774	4056.66	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.071	45	333090	3779.47	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.210	70	253448	3927.93	ng/ml	97
17) 3+4-Methylphenol	7.199	107	419273	4107.75	ng/ml	95
18) Hexachloroethane	7.322	201	197978	4411.02	ng/ml	94
20) Nitrobenzene	7.381	77	390099	4279.16	ng/ml	99
22) Isophorone	7.621	82	745397	4126.39	ng/ml	98
23) 2-Nitrophenol	7.696	139	254617	4410.75	ng/ml	91
24) 2,4-Dimethylphenol	7.734	122	351489	4033.34	ng/ml	95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.825	93	453427	3848.55	ng/ml	99
26) Benzoic acid	7.889	105	443484	7994.36	ng/ml	95
27) 2,4-Dichlorophenol	7.937	162	384242	4202.27	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.028	180	435878	3969.84	ng/ml	97
29) Naphthalene	8.108	128	1228640	3728.96	ng/ml	98
30) 4-Chloroaniline	8.156	127	406932	Below Cal		96
31) Hexachlorobutadiene	8.237	225	270996	4392.22	ng/ml	100
32) 4-Chloro-3-methylphenol	8.632	107	351606	4109.93	ng/ml	98
33) 2-Methylnaphthalene	8.809	142	877955	3819.98	ng/ml	96
34) 1-Methylnaphthalene	8.911	142	809740	3753.48	ng/ml	97
36) Hexachlorocyclopentadiene	8.975	237	284487	4939.24	ng/ml	99
37) 2,4,6-Trichlorophenol	9.087	196	286551	4402.20	ng/ml	97
38) 2,4,5-Trichlorophenol	9.124	198	281418	4401.37	ng/ml	98
39) 1,1'-Biphenyl	9.280	154	996176	3845.50	ng/ml	99
41) 2-Chloronaphthalene	9.306	162	765622	3852.21	ng/ml	96
42) 2-Nitroaniline	9.403	138	258700	4515.62	ng/ml	92
43) 2,6-Dimethylnaphthalene	9.440	156	728975	3864.28	ng/ml	97
44) 1,4-Dinitrobenzene	9.531	168	136292	4375.43	ng/ml	91
45) Dimethyl phthalate	9.584	163	894138	4031.97	ng/ml	98
46) 1,3-Dinitrobenzene	9.617	168	154967	4352.80	ng/ml	94
47) 2,6-Dinitrotoluene	9.643	165	219135	4303.99	ng/ml	90
48) 1,2-Dinitrobenzene	9.707	168	104188	4613.19	ng/ml	84
49) Acenaphthylene	9.729	152	1161710	3766.91	ng/ml	100
50) 3-Nitroaniline	9.820	138	105482	Below Cal		98
51) Acenaphthene	9.911	153	767014	3681.04	ng/ml	98
52) 2,4-Dinitrophenol	9.921	184	98071	4984.91	ng/ml	92
53) 4-Nitrophenol	9.980	139	167465	4228.31	ng/ml	89
54) 2,4-Dinitrotoluene	10.060	165	290214	4502.96	ng/ml	96
55) Dibenzofuran	10.082	168	1089674	3848.88	ng/ml	94
56) 2,3,5,6-Tetrachlorophenol	10.162	232	249569	4619.78	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.205	232	247870	4497.26	ng/ml	98
58) Diethyl phthalate	10.301	149	786255	3738.71	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.296	170	648195	3746.45	ng/ml	97
60) Fluorene	10.435	166	836388	3782.09	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.424	204	447464	4089.72	ng/ml	97
62) 4-Nitroaniline	10.446	138	141155	3539.46	ng/ml	89
63) 4,6-Dinitro-2-methylph...	10.478	198	156895	5012.71	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

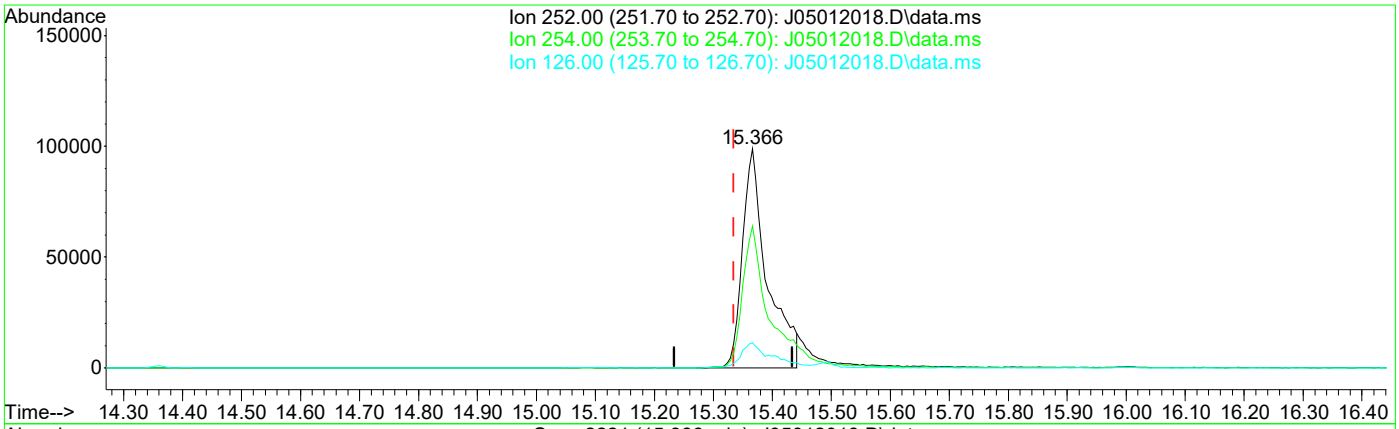
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.547	169	702299	3736.24	ng/ml	99
66) Azobenzene (1,2-DPH)	10.590	77	651181	3690.41	ng/ml	94
68) 4-Bromophenyl phenyl e...	10.927	248	311932	4248.09	ng/ml	97
69) Hexachlorobenzene	11.007	284	362746	3965.80	ng/ml	97
70) Pentachlorophenol (PCP)	11.200	266	211120	4533.98	ng/ml	99
71) Phenanthrene	11.424	178	1281640	3712.89	ng/ml	98
72) Anthracene	11.473	178	1278996	3780.96	ng/ml	98
73) Carbazole	11.628	167	602292	2185.55	ng/ml	99
74) Di-n-butyl phthalate	11.975	149	1394915	3853.46	ng/ml	99
75) Fluoranthene	12.751	202	1505186	4160.35	ng/ml	97
76) Benzidine	12.917	184	1057265	Below Cal		97
77) Pyrene	13.072	202	1501003	4024.54	ng/ml	99
80) Butyl benzyl phthalate	14.174	149	625201	3934.48	ng/ml	93
81) Bis(2-ethylhexyl) adipate	14.361	129	529388	3876.56	ng/ml	98
82) 3,3-Dichlorobenzidine	15.366	252	287308	9221.59	ng/ml	See MI 97
83) Benz(a)anthracene	15.404	228	1395465	4001.10	ng/ml	99
84) Chrysene	15.495	228	1316345	4099.68	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.564	149	831541	4154.15	ng/ml	96
87) Di-n-octyl phthalate	17.254	149	1442635	3894.28	ng/ml	99
88) Benzo(b)fluoranthene	18.035	252	1458700	4053.65	ng/ml	97
89) Benzo(k)fluoranthene	18.110	252	1354141	4234.87	ng/ml	97
90) Benzo(b+k)fluoranthene	18.110	252	2877335	8167.52	ng/ml	97
91) Benzo(e)pyrene	18.709	252	1356699	4107.66	ng/ml	97
92) Benzo(a)pyrene	18.827	252	1212487	4147.34	ng/ml	99
93) Perylene	19.035	252	1175455	4033.48	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.389	276	1288601	3997.76	ng/ml	93
96) Dibenz(a,h)anthracene	21.448	278	1233028	4278.40	ng/ml	91
97) Benzo(g,h,i)perylene	21.934	276	1315312	4106.09	ng/ml	90

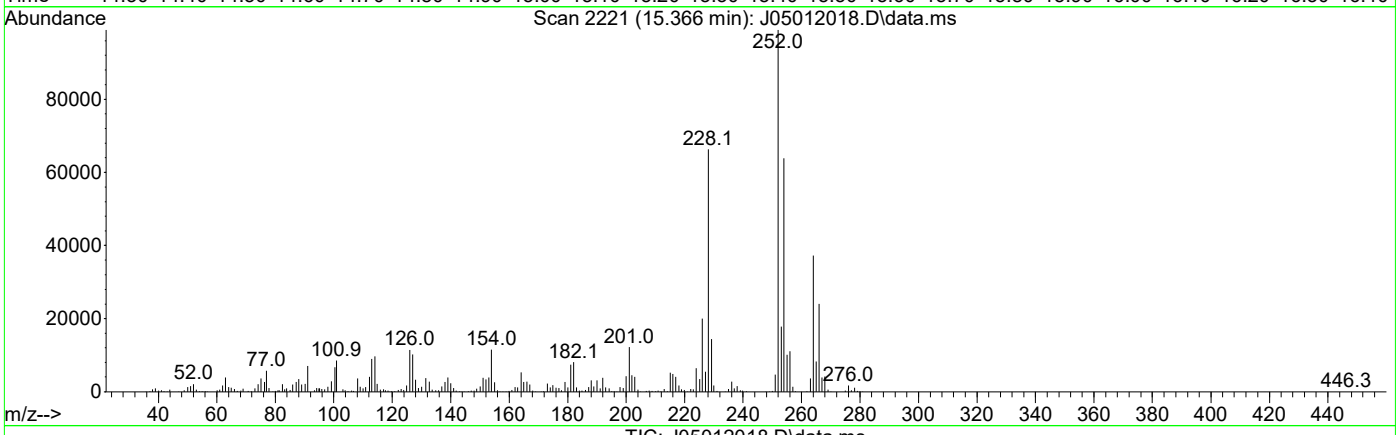
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012018.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.366min (+ 0.032) 9221.59 ng/ml

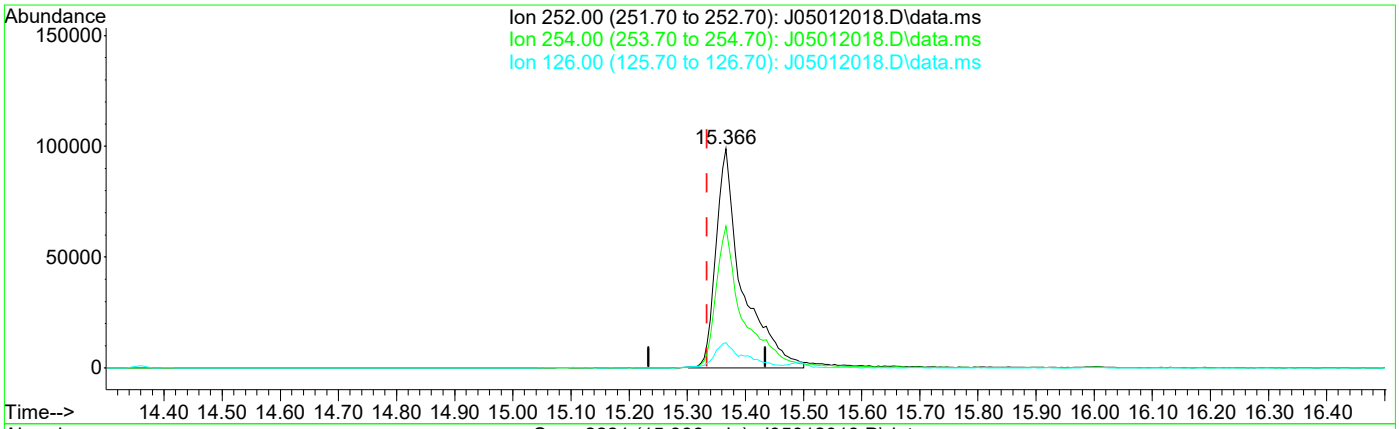
response 287308

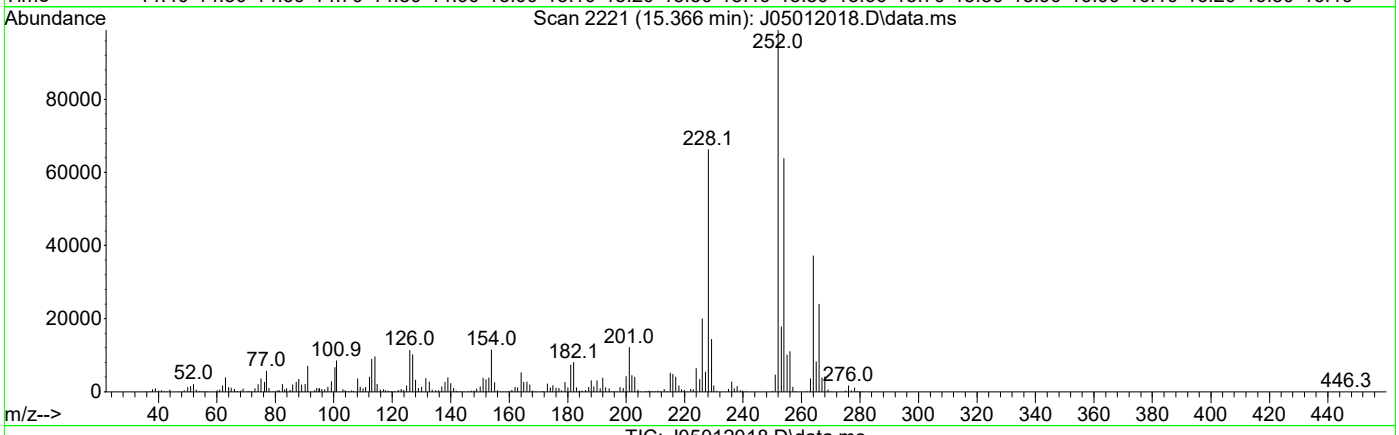
Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	64.54
126.00	13.30	11.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012018.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.366min (+ 0.032) 9848.94 ng/ml m

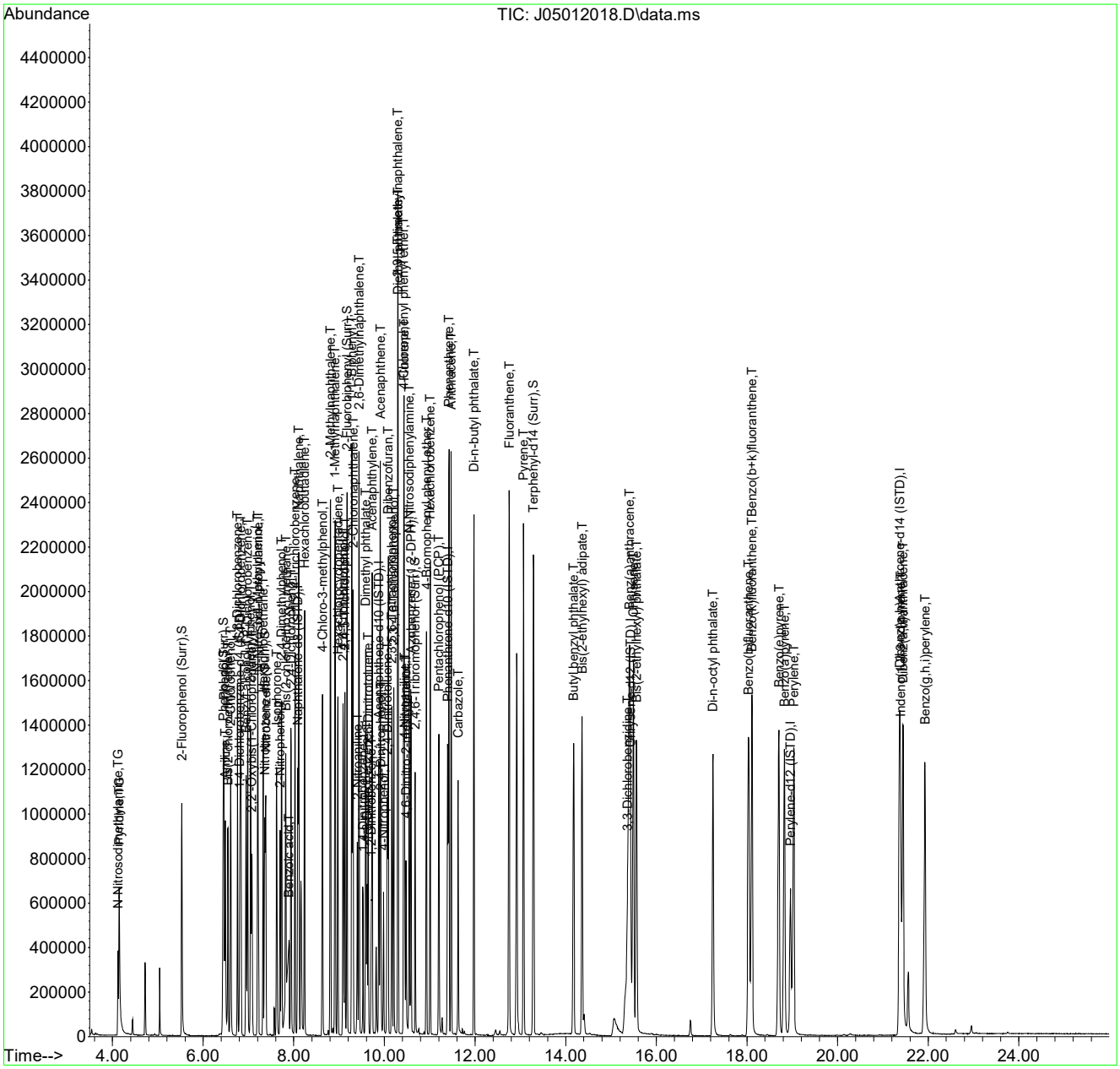
response 309410

Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	64.54
126.00	13.30	11.55
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.814	152	165574	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.087	136	621657	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.873	162	325974	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.398	188	615884	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.430	240	555110	2000.00	ng/ml	0.03
86) Perylene-d12 (ISTD)	18.961	264	556224	2000.00	ng/ml	0.03
94) Dibenz(a,h)Anthrcene-d...	21.378	292	497217	2000.00	ng/ml	0.04
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	655827	6564.32	ng/ml	0.00
5) Phenol-d6(Surr)	6.450	99	739081	6321.57	ng/ml	0.02
19) Nitrobenzene-d5 (Surr)	7.365	82	567191	6483.68	ng/ml	0.01
40) 2-Fluorobiphenyl (Surr)	9.178	172	1323459	5443.76	ng/ml	0.01
67) 2,4,6-Tribromophenol (...	10.686	330	287674	6287.97	ng/ml	0.02
79) Terphenyl-d14 (Surr)	13.291	244	1636098	6349.44	ng/ml	0.02
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.118	74	393406	6289.26	ng/ml	87
3) Pyridine	4.139	79	679950	6195.90	ng/ml	96
6) Phenol	6.466	94	767137	6127.83	ng/ml	86
7) Aniline	6.487	93	804680	14359.71	ng/ml	95
8) Bis(2-chloroethyl) ether	6.546	93	610903	4991.99	ng/ml	92
9) 2-Chlorophenol	6.611	128	680218	6293.96	ng/ml	98
10) 1,3-Dichlorobenzene	6.760	146	741627	5634.25	ng/ml	98
11) 1,4-Dichlorobenzene	6.830	146	708159	5429.74	ng/ml	98
12) Benzyl alcohol	6.947	108	393544	5565.93	ng/ml	90
13) 1,2-Dichlorobenzene	6.985	146	679700	5330.37	ng/ml	97
14) 2-Methylphenol	7.049	107	459315	5759.11	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.076	45	433983	5201.84	ng/ml	93
16) N-Nitrosodi-n-propylamine	7.220	70	347925	5696.07	ng/ml	99
17) 3+4-Methylphenol	7.210	107	564140	5838.61	ng/ml	95
18) Hexachloroethane	7.322	201	275750	6490.12	ng/ml	93
20) Nitrobenzene	7.386	77	538665	6241.91	ng/ml	99
22) Isophorone	7.627	82	1085451	6142.73	ng/ml	98
23) 2-Nitrophenol	7.702	139	359445	6098.48	ng/ml	89
24) 2,4-Dimethylphenol	7.739	122	496307	5822.00	ng/ml	94

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.825	93	615100	5337.08	ng/ml	99
26) Benzoic acid	7.739	105	17257	1186.11	ng/ml#	See MI1
27) 2,4-Dichlorophenol	7.942	162	541260	6030.55	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.028	180	598290	5570.42	ng/ml	97
29) Naphthalene	8.113	128	1645822	5106.39	ng/ml	98
30) 4-Chloroaniline	8.162	127	557000	Below Cal		95
31) Hexachlorobutadiene	8.237	225	385170	6381.77	ng/ml	99
32) 4-Chloro-3-methylphenol	8.632	107	501798	5878.63	ng/ml	96
33) 2-Methylnaphthalene	8.809	142	1210517	5384.28	ng/ml	96
34) 1-Methylnaphthalene	8.910	142	1107064	5246.01	ng/ml	96
36) Hexachlorocyclopentadiene	8.975	237	412390	6841.09	ng/ml	98
37) 2,4,6-Trichlorophenol	9.092	196	411313	6149.81	ng/ml	97
38) 2,4,5-Trichlorophenol	9.130	198	405084	6281.80	ng/ml	97
39) 1,1'-Biphenyl	9.280	154	1359592	5173.74	ng/ml	99
41) 2-Chloronaphthalene	9.306	162	1059335	5254.22	ng/ml	94
42) 2-Nitroaniline	9.408	138	382203	6576.49	ng/ml	93
43) 2,6-Dimethylnaphthalene	9.445	156	1003034	5241.45	ng/ml	96
44) 1,4-Dinitrobenzene	9.536	168	205994	6168.33	ng/ml	90
45) Dimethyl phthalate	9.595	163	1257398	5589.39	ng/ml	99
46) 1,3-Dinitrobenzene	9.622	168	223699	6095.05	ng/ml	95
47) 2,6-Dinitrotoluene	9.649	165	313636	6075.74	ng/ml	90
48) 1,2-Dinitrobenzene	9.718	168	149729	6535.35	ng/ml	88
49) Acenaphthylene	9.734	152	1585324	5067.39	ng/ml	99
50) 3-Nitroaniline	9.825	138	134645	Below Cal		98
51) Acenaphthene	9.911	153	1076553	5093.10	ng/ml	100
52) 2,4-Dinitrophenol	9.927	184	158485	6679.51	ng/ml	94
53) 4-Nitrophenol	9.986	139	244656	5860.77	ng/ml	85
54) 2,4-Dinitrotoluene	10.066	165	409733	6245.23	ng/ml	95
55) Dibenzofuran	10.087	168	1509514	5255.98	ng/ml	93
56) 2,3,5,6-Tetrachlorophenol	10.162	232	362239	6271.03	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.210	232	358335	6232.65	ng/ml	97
58) Diethyl phthalate	10.306	149	1028926	4823.05	ng/ml	96
59) 2,3,5-Trimethylnaphtha...	10.296	170	895832	5104.11	ng/ml	96
60) Fluorene	10.440	166	1143948	5099.29	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.424	204	631834	5692.69	ng/ml	96
62) 4-Nitroaniline	10.456	138	203041	5018.85	ng/ml	92
63) 4,6-Dinitro-2-methylph...	10.488	198	232609	6581.49	ng/ml	92

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

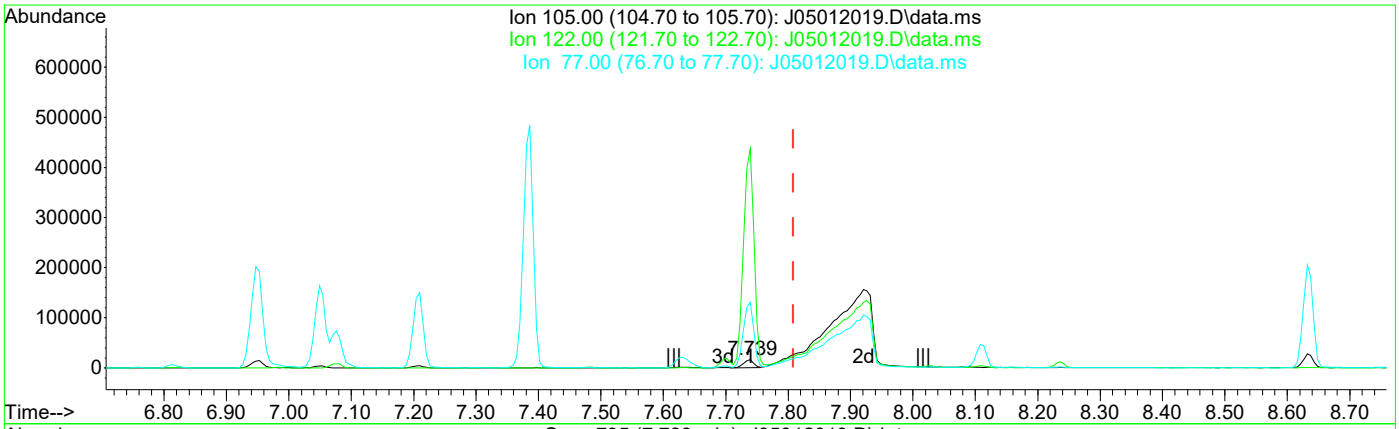
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.552	169	942017	5100.49	ng/ml	99
66) Azobenzene (1,2-DPH)	10.590	77	888474	5124.57	ng/ml	94
68) 4-Bromophenyl phenyl e...	10.927	248	451078	6252.09	ng/ml	99
69) Hexachlorobenzene	11.012	284	517399	5756.97	ng/ml	97
70) Pentachlorophenol (PCP)	11.200	266	312170	6317.70	ng/ml	99
71) Phenanthrene	11.424	178	1749249	5157.48	ng/ml	98
72) Anthracene	11.478	178	1732004	5211.00	ng/ml	98
73) Carbazole	11.628	167	685341	2531.04	ng/ml	99
74) Di-n-butyl phthalate	11.975	149	1828582	5141.11	ng/ml	98
75) Fluoranthene	12.756	202	2010843	5656.62	ng/ml	95
76) Benzidine	12.922	184	1394496	Below Cal		97
77) Pyrene	13.072	202	2033824	5549.93	ng/ml	98
80) Butyl benzyl phthalate	14.174	149	839217	5697.77	ng/ml	92
81) Bis(2-ethylhexyl) adipate	14.361	129	700244	5565.92	ng/ml	98
82) 3,3-Dichlorobenzidine	15.372	252	347008	11922.66	ng/ml	See MI 98
83) Benz(a)anthracene	15.409	228	1868254	5952.76	ng/ml	100
84) Chrysene	15.495	228	1740049	6022.32	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.564	149	1106114	6140.73	ng/ml	95
87) Di-n-octyl phthalate	17.254	149	1961816	5747.45	ng/ml	99
88) Benzo(b)fluoranthene	18.046	252	1988669	5804.57	ng/ml	97
89) Benzo(k)fluoranthene	18.121	252	1807757	6444.06	ng/ml	97
90) Benzo(b+k)fluoranthene	18.121	252	3883230	11954.40	ng/ml	97
91) Benzo(e)pyrene	18.714	252	1792904	5872.49	ng/ml	98
92) Benzo(a)pyrene	18.832	252	1628683	5938.59	ng/ml	99
93) Perylene	19.035	252	1575409	5918.87	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.394	276	1822387	6191.30	ng/ml	91
96) Dibenz(a,h)anthracene	21.453	278	1647572	6260.32	ng/ml	92
97) Benzo(g,h,i)perylene	21.940	276	1758939	6067.80	ng/ml	91

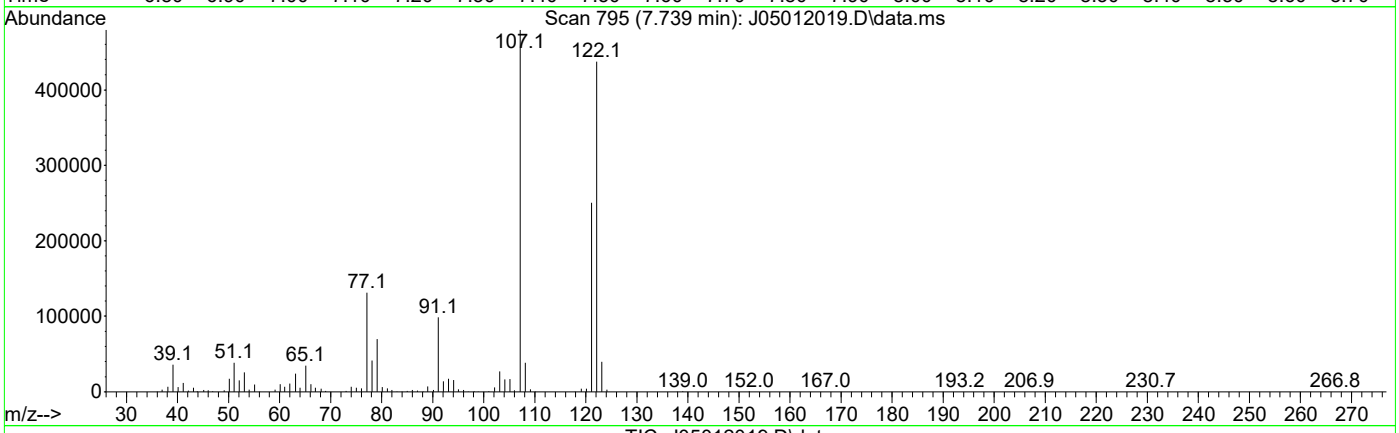
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012019.D\data.ms

(26) Benzoic acid (T)

7.739min (-0.070) 1186.11 ng/ml

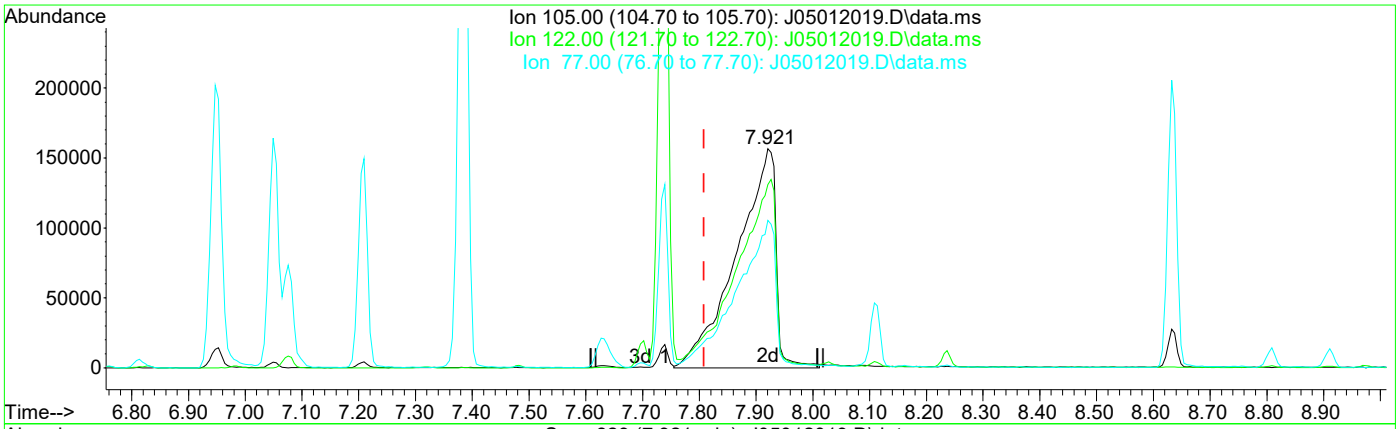
response 17257

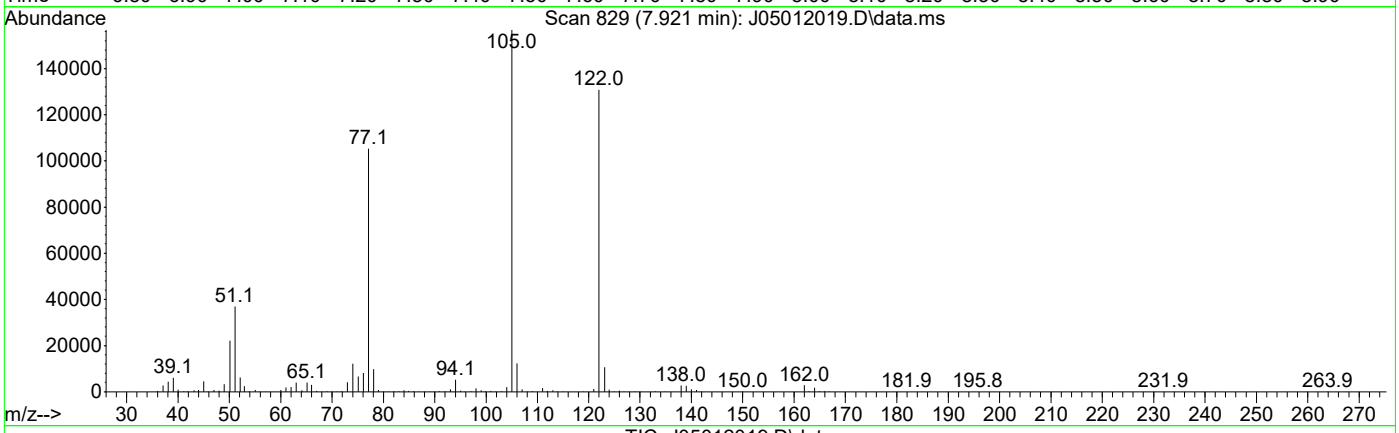
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	2637.72#
77.00	61.50	790.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012019.D\data.ms

(26) Benzoic acid (T)

7.921min (+ 0.112) 12136.56 ng/ml m

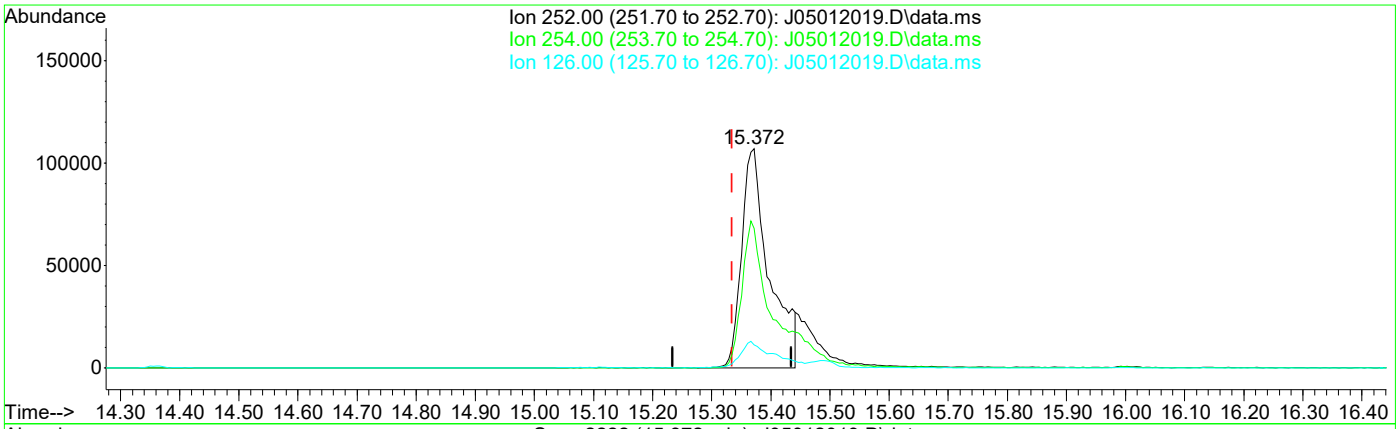
response 754829

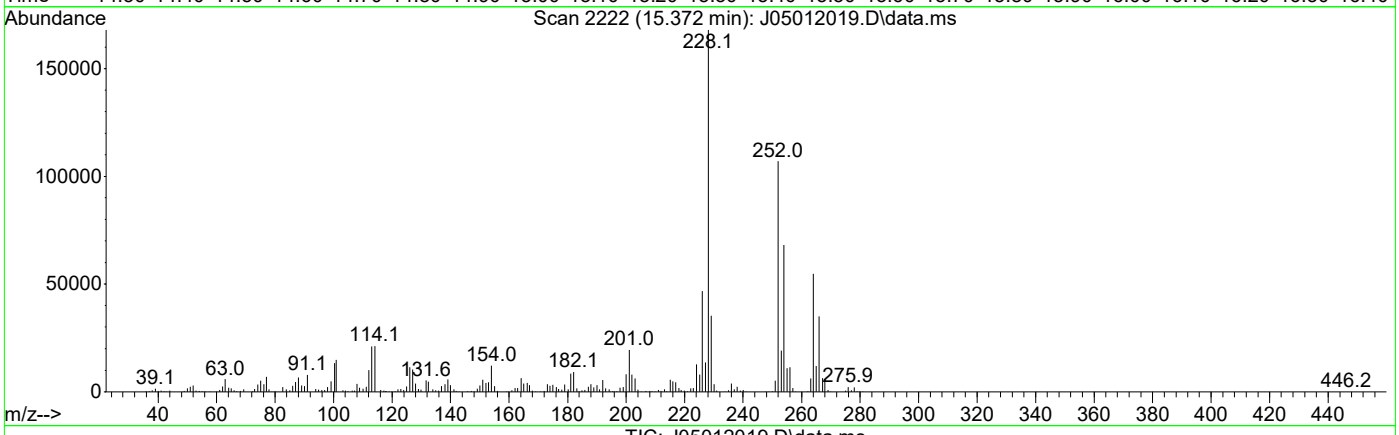
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	83.55
77.00	61.50	67.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012019.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.372min (+ 0.037) 11922.66 ng/ml

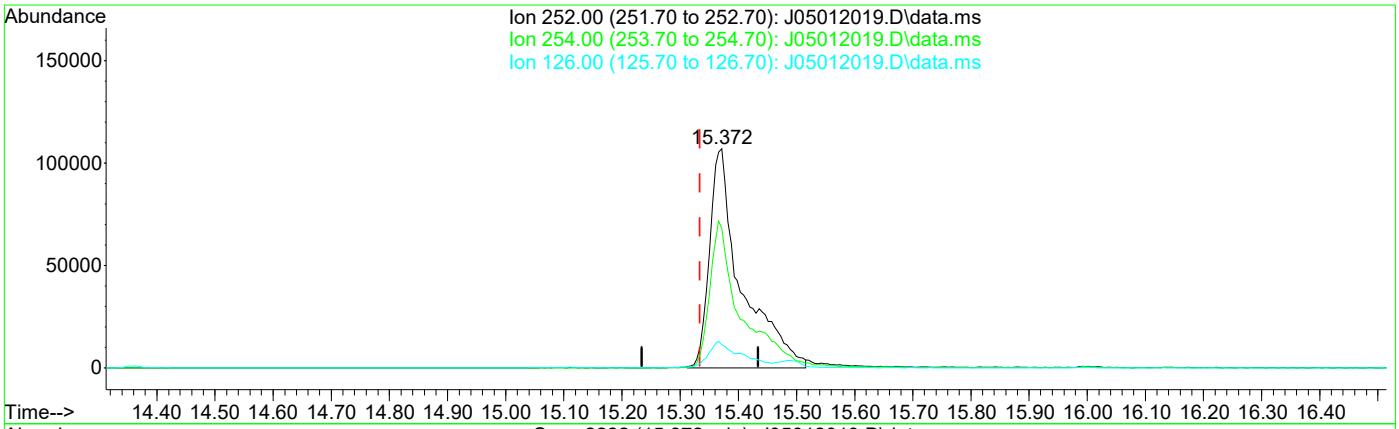
response 347008

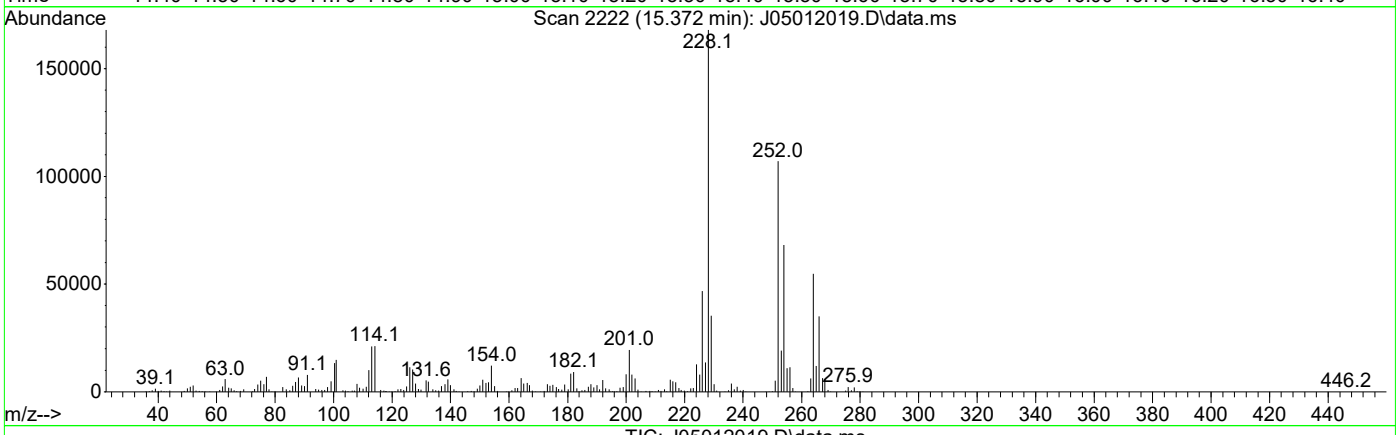
Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	63.63
126.00	13.30	10.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012019.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.372min (+ 0.037) 13598.23 ng/ml m

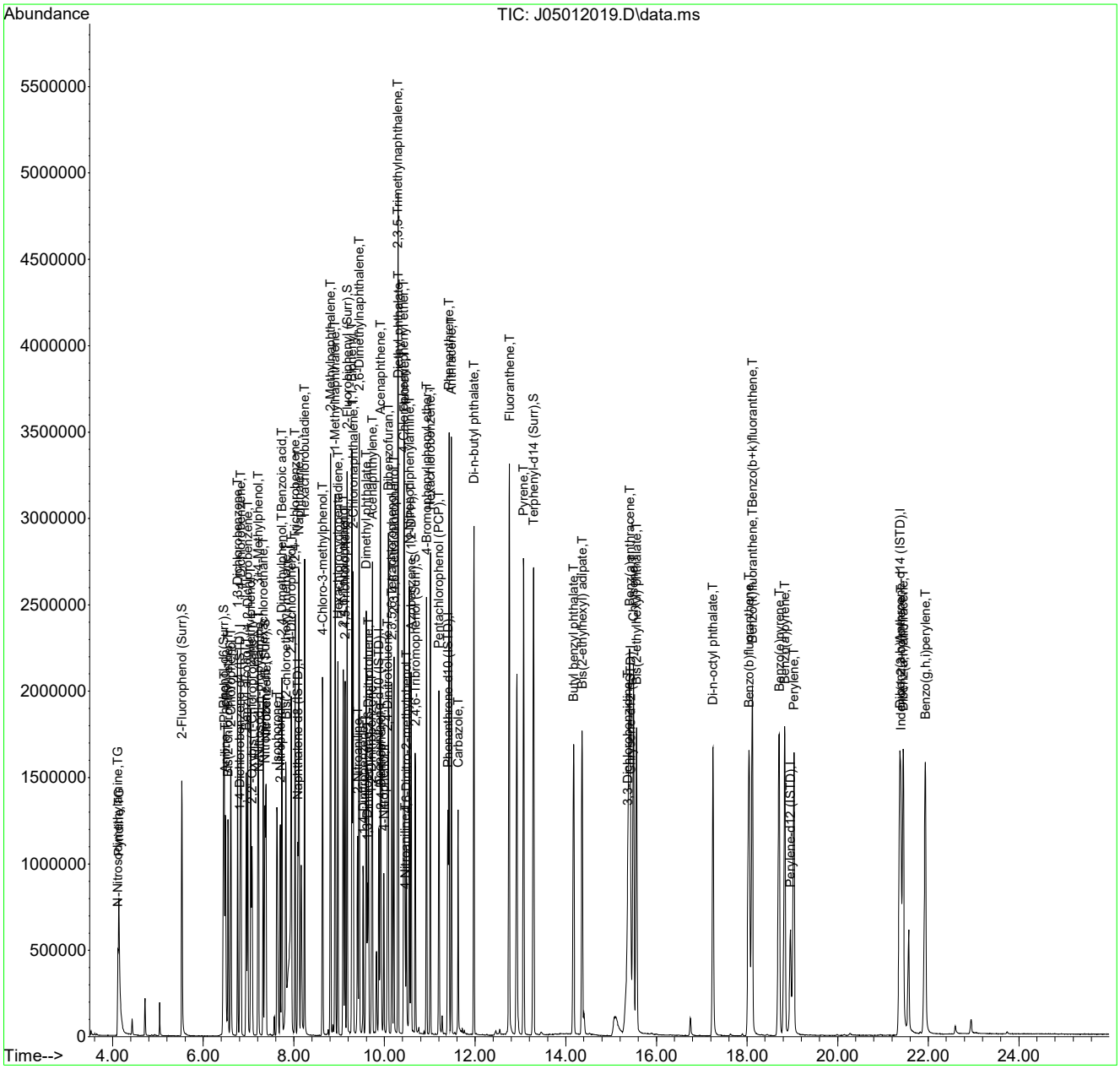
response 405603

Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	63.63
126.00	13.30	10.54
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.814	152	163128	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.087	136	607439	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.878	162	313797	2000.00	ng/ml	0.01
64) Phenanthrene-d10 (ISTD)	11.397	188	618950	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.436	240	579608	2000.00	ng/ml	0.03
86) Perylene-d12 (ISTD)	18.966	264	589023	2000.00	ng/ml	0.04
94) Dibenz(a,h)Anthrcene-d...	21.383	292	540731	2000.00	ng/ml	0.05
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	828011	8412.02	ng/ml	0.00
5) Phenol-d6(Surr)	6.455	99	948776	8236.83	ng/ml	0.02
19) Nitrobenzene-d5 (Surr)	7.365	82	719111	8343.57	ng/ml	0.01
40) 2-Fluorobiphenyl (Surr)	9.178	172	1596212	6820.45	ng/ml	0.01
67) 2,4,6-Tribromophenol (...	10.686	330	380681	7931.48	ng/ml	0.02
79) Terphenyl-d14 (Surr)	13.291	244	2208764	8209.57	ng/ml	0.02
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.129	74	504946	8193.45	ng/ml	88
3) Pyridine	4.150	79	871278	7871.09	ng/ml	94
6) Phenol	6.471	94	974066	7897.43	ng/ml	80
7) Aniline	6.493	93	1093109	Below Cal		96
8) Bis(2-chloroethyl) ether	6.552	93	743153	6163.72	ng/ml	93
9) 2-Chlorophenol	6.610	128	858273	8060.56	ng/ml	98
10) 1,3-Dichlorobenzene	6.760	146	947173	7303.71	ng/ml	97
11) 1,4-Dichlorobenzene	6.830	146	913373	7108.20	ng/ml	98
12) Benzyl alcohol	6.958	108	519355	7398.29	ng/ml	93
13) 1,2-Dichlorobenzene	6.985	146	864319	6879.83	ng/ml	96
14) 2-Methylphenol	7.054	107	577925	7354.95	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.076	45	548150	6668.80	ng/ml	92
16) N-Nitrosodi-n-propylamine	7.226	70	442984	7361.08	ng/ml	100
17) 3+4-Methylphenol	7.215	107	709231	7450.30	ng/ml	95
18) Hexachloroethane	7.322	201	359667	8592.14	ng/ml	92
20) Nitrobenzene	7.386	77	675628	7946.39	ng/ml	97
22) Isophorone	7.637	82	1387142	8033.78	ng/ml	99
23) 2-Nitrophenol	7.702	139	470113	7831.35	ng/ml	89
24) 2,4-Dimethylphenol	7.744	122	624108	7492.55	ng/ml	93

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.830	93	762034	6766.75	ng/ml	99
26) Benzoic acid	7.744	105	20847	1265.82	ng/ml#	See Mt
27) 2,4-Dichlorophenol	7.948	162	670509	7628.29	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.028	180	760344	7244.94	ng/ml	96
29) Naphthalene	8.113	128	2025811	6432.47	ng/ml	97
30) 4-Chloroaniline	8.162	127	713100	Below Cal		96
31) Hexachlorobutadiene	8.236	225	495957	8409.71	ng/ml	99
32) 4-Chloro-3-methylphenol	8.638	107	629786	7428.31	ng/ml	98
33) 2-Methylnaphthalene	8.809	142	1471994	6700.56	ng/ml	96
34) 1-Methylnaphthalene	8.910	142	1344642	6520.96	ng/ml	96
36) Hexachlorocyclopentadiene	8.975	237	536854	8948.72	ng/ml	98
37) 2,4,6-Trichlorophenol	9.092	196	526956	8079.00	ng/ml	98
38) 2,4,5-Trichlorophenol	9.130	198	495222	8028.28	ng/ml	97
39) 1,1'-Biphenyl	9.285	154	1633908	6458.88	ng/ml	99
41) 2-Chloronaphthalene	9.312	162	1278066	6585.10	ng/ml	94
42) 2-Nitroaniline	9.413	138	490776	8772.38	ng/ml	94
43) 2,6-Dimethylnaphthalene	9.445	156	1220442	6625.02	ng/ml	95
44) 1,4-Dinitrobenzene	9.536	168	267475	7917.22	ng/ml	96
45) Dimethyl phthalate	9.600	163	1572205	7259.97	ng/ml	97
46) 1,3-Dinitrobenzene	9.627	168	290499	8090.61	ng/ml	94
47) 2,6-Dinitrotoluene	9.654	165	393388	7928.13	ng/ml	90
48) 1,2-Dinitrobenzene	9.723	168	187132	8484.87	ng/ml	84
49) Acenaphthylene	9.734	152	1874093	6222.88	ng/ml	99
50) 3-Nitroaniline	9.830	138	210733	Below Cal		95
51) Acenaphthene	9.916	153	1314111	6458.22	ng/ml	99
52) 2,4-Dinitrophenol	9.932	184	222605	8401.95	ng/ml	93
53) 4-Nitrophenol	9.996	139	328927	7847.04	ng/ml	86
54) 2,4-Dinitrotoluene	10.071	165	528085	8343.21	ng/ml	94
55) Dibenzofuran	10.087	168	1853746	6705.04	ng/ml	92
56) 2,3,5,6-Tetrachlorophenol	10.167	232	473333	8068.59	ng/ml	99
57) 2,3,4,6-Tetrachlorophenol	10.210	232	465875	8173.72	ng/ml	98
58) Diethyl phthalate	10.312	149	1270464	6186.35	ng/ml	95
59) 2,3,5-Trimethylnaphtha...	10.301	170	1081008	6398.18	ng/ml	96
60) Fluorene	10.440	166	1419760	6574.34	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.429	204	801674	7503.20	ng/ml	98
62) 4-Nitroaniline	10.461	138	273695	7027.83	ng/ml	88
63) 4,6-Dinitro-2-methylph...	10.494	198	306192	8171.33	ng/ml	92

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

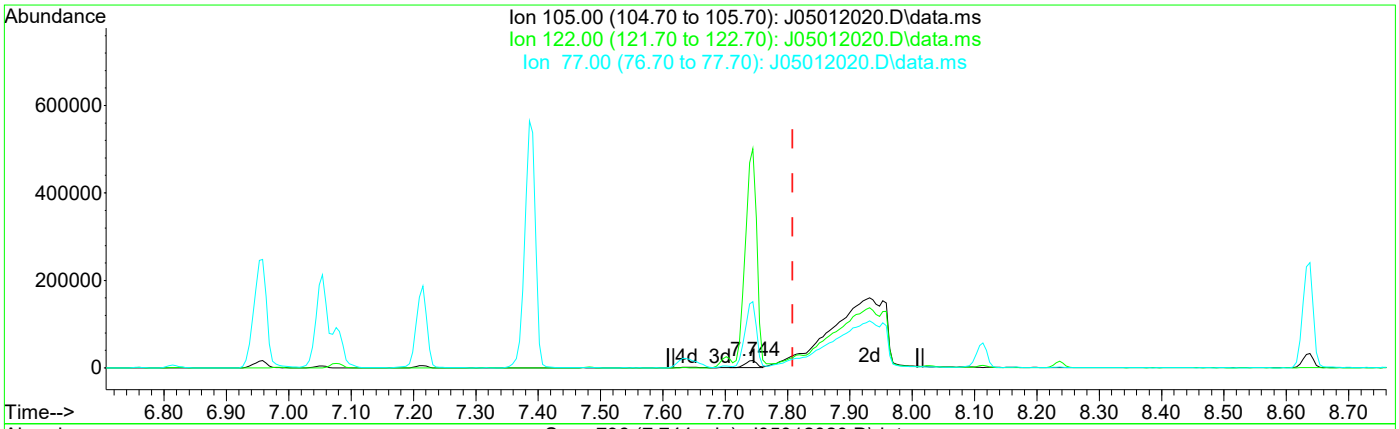
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.552	169	1205586	6495.23	ng/ml	99
66) Azobenzene (1,2-DPH)	10.595	77	1110225	6371.87	ng/ml	89
68) 4-Bromophenyl phenyl e...	10.932	248	588449	8115.69	ng/ml	96
69) Hexachlorobenzene	11.012	284	672890	7449.99	ng/ml	98
70) Pentachlorophenol (PCP)	11.205	266	425010	8008.52	ng/ml	99
71) Phenanthrene	11.424	178	2205671	6470.98	ng/ml	97
72) Anthracene	11.483	178	2197141	6577.70	ng/ml	97
73) Carbazole	11.627	167	1042183	3829.83	ng/ml	98
74) Di-n-butyl phthalate	11.975	149	2399103	6711.74	ng/ml	98
75) Fluoranthene	12.761	202	2637205	7381.87	ng/ml	94
76) Benzidine	12.927	184	2171552	Below Cal		97
77) Pyrene	13.077	202	2616481	7104.52	ng/ml	97
80) Butyl benzyl phthalate	14.179	149	1186472	7506.20	ng/ml	94
81) Bis(2-ethylhexyl) adipate	14.366	129	982873	7321.01	ng/ml	97
82) 3,3-Dichlorobenzidine	15.377	252	456014	14457.08	ng/ml	See MI97
83) Benz(a)anthracene	15.414	228	2560645	7814.06	ng/ml	98
84) Chrysene	15.505	228	2318563	7685.39	ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.569	149	1495426	7951.15	ng/ml	95
87) Di-n-octyl phthalate	17.260	149	2730088	7509.37	ng/ml	97
88) Benzo(b)fluoranthene	18.062	252	2786424	7406.47	ng/ml	97
89) Benzo(k)fluoranthene	18.131	252	2426885	8497.15	ng/ml	96
90) Benzo(b+k)fluoranthene	18.131	252	5326709	15358.90	ng/ml	96
91) Benzo(e)pyrene	18.725	252	2485374	7600.53	ng/ml	97
92) Benzo(a)pyrene	18.848	252	2233306	7517.34	ng/ml	99
93) Perylene	19.051	252	2173662	7711.78	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.405	276	2652583	8286.57	ng/ml	92
96) Dibenz(a,h)anthracene	21.464	278	2315467	8090.12	ng/ml	92
97) Benzo(g,h,i)perylene	21.956	276	2433679	7784.16	ng/ml	91

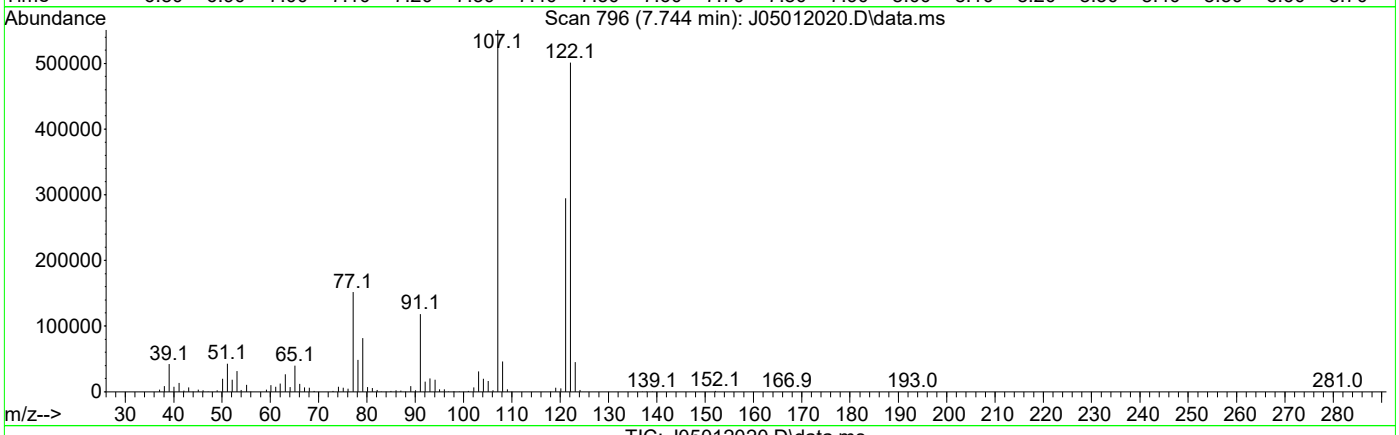
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012020.D\data.ms

(26) Benzoic acid (T)

7.744min (-0.064) 1265.82 ng/ml

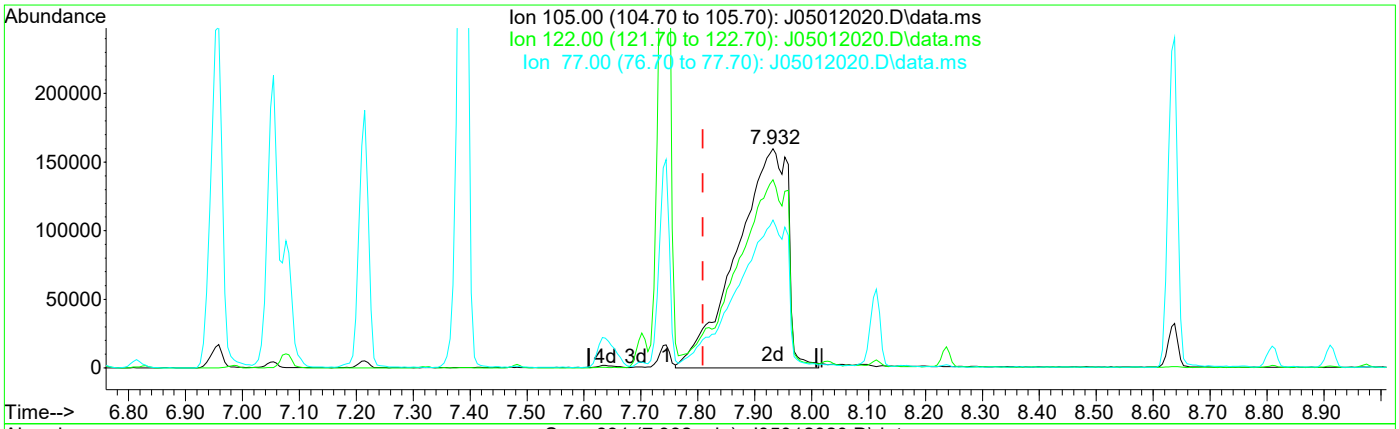
response 20847

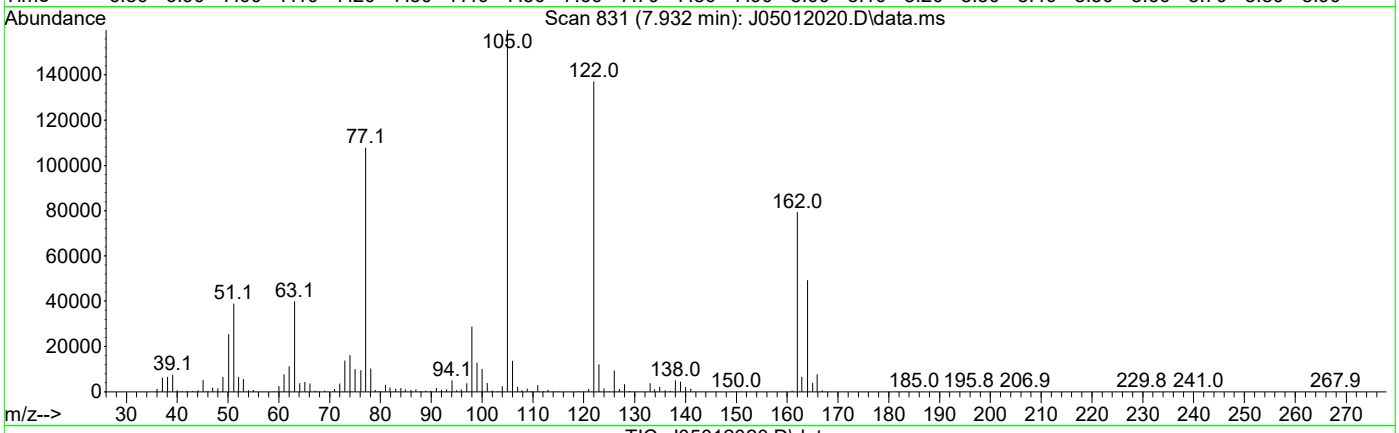
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	3008.35#
77.00	61.50	910.99#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012020.D\data.ms

(26) Benzoic acid (T)

7.932min (+ 0.123) 15095.28 ng/ml m

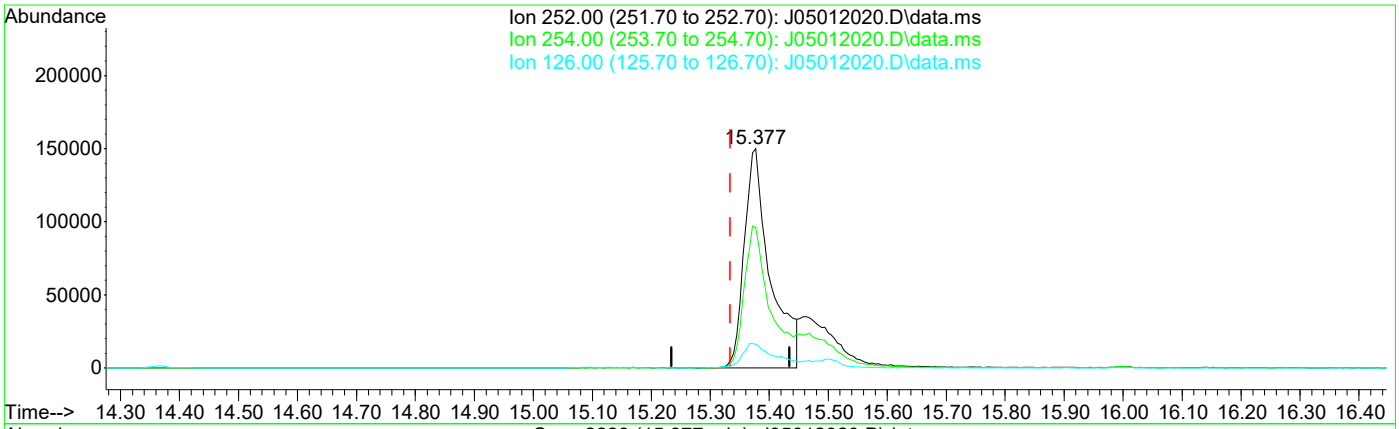
response 992195

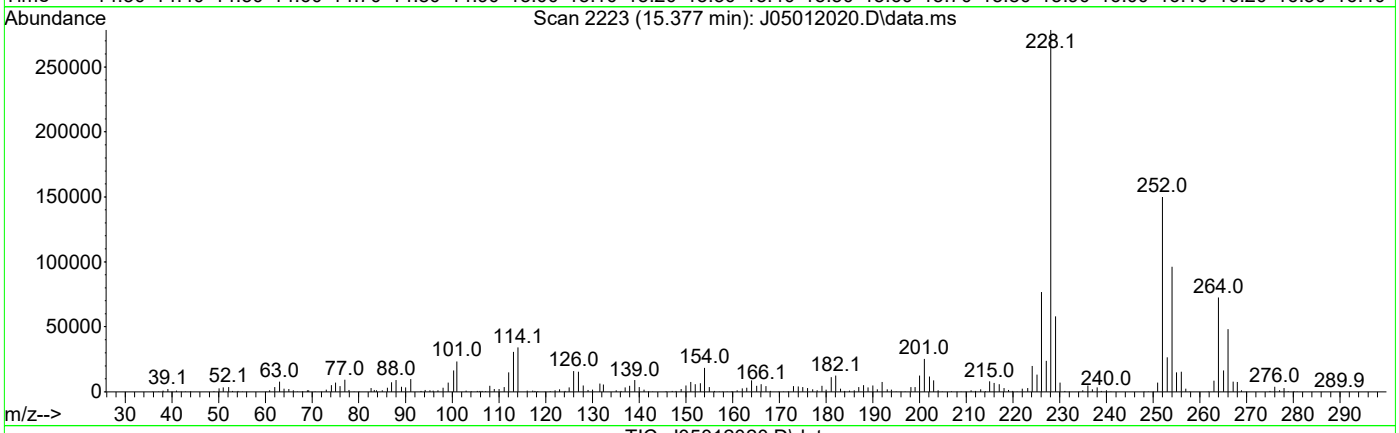
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	85.78
77.00	61.50	67.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012020.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.377min (+ 0.043) 14457.08 ng/ml

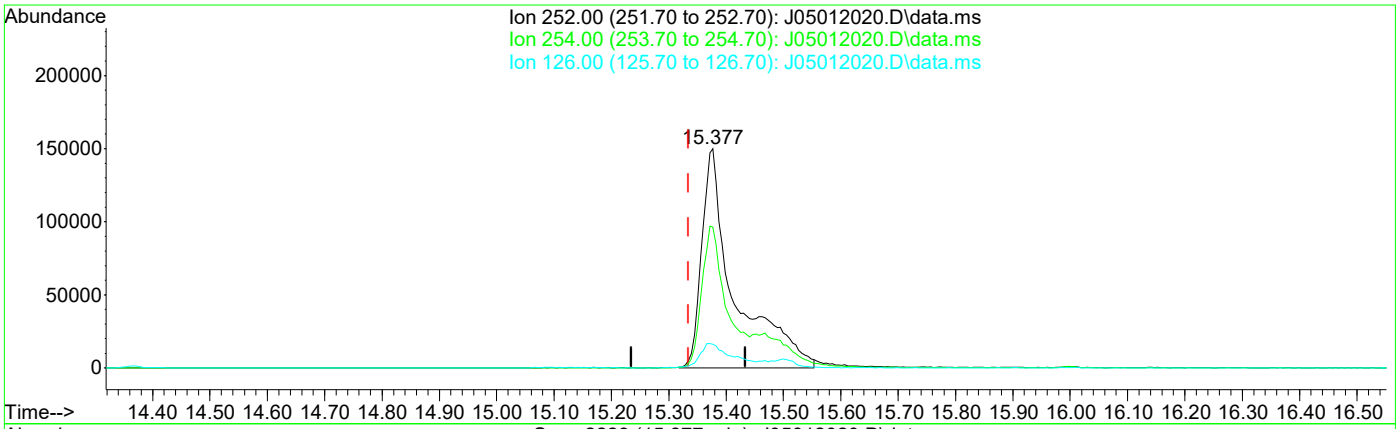
response 456014

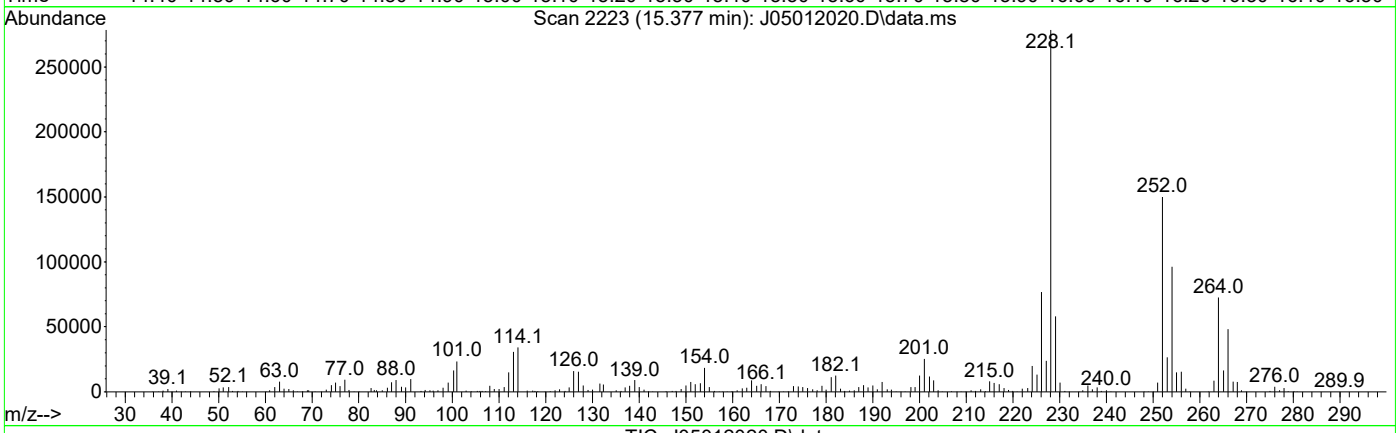
Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	64.19
126.00	13.30	10.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012020.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.377min (+ 0.043) 17953.88 ng/ml m

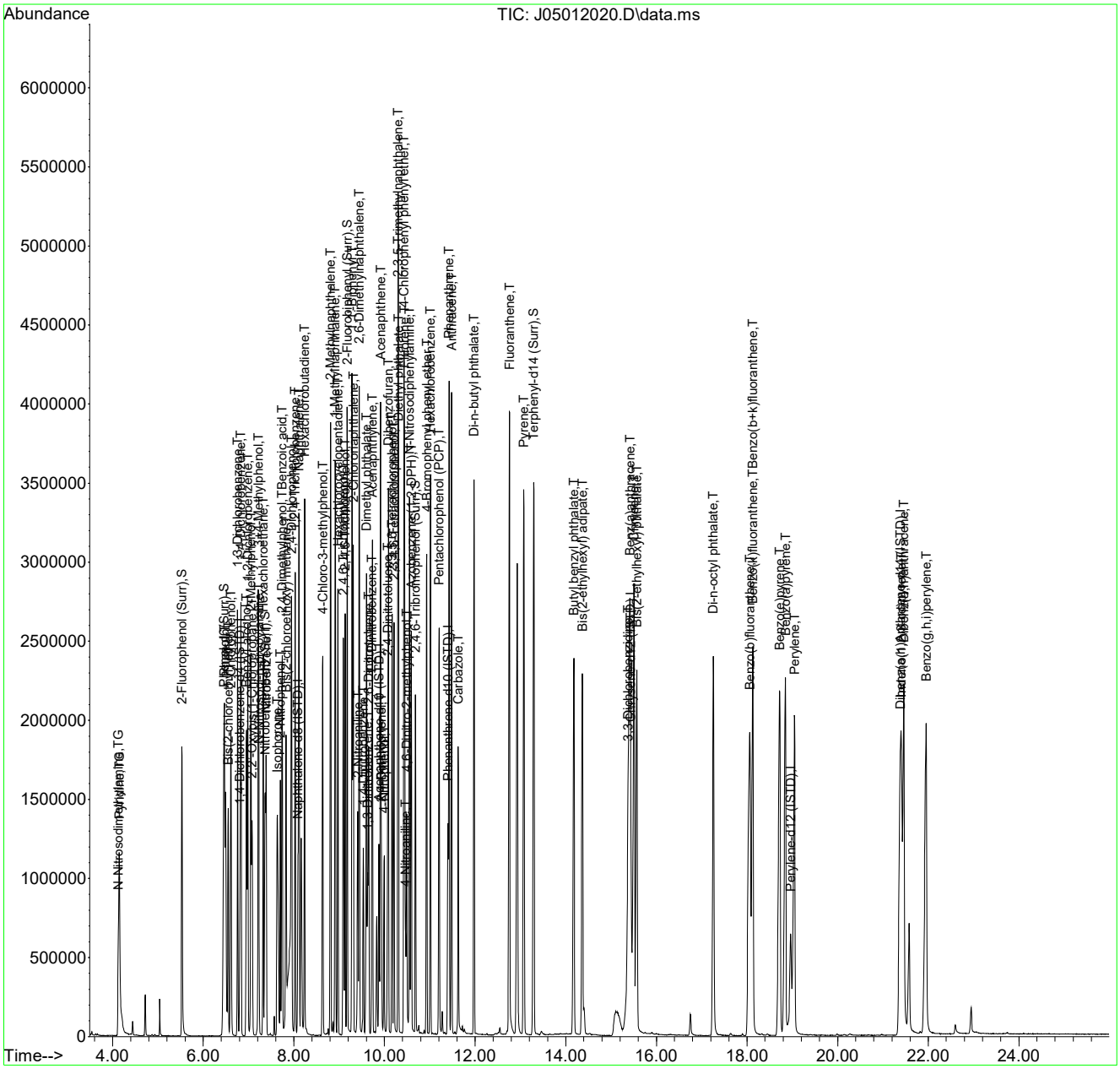
response 596438

Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	64.19
126.00	13.30	10.70
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:11:25 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	180023	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	696290	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.873	162	360502	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	649765	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.420	240	633809	2000.00	ng/ml	0.02
86) Perylene-d12 (ISTD)	18.950	264	601034	2000.00	ng/ml	0.02
94) Dibenz(a,h)Anthrcene-d...	21.351	292	505867	2000.00	ng/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	119165	1097.02	ng/ml	0.00
5) Phenol-d6(Surr)	6.434	99	147152	1157.61	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	116417	1223.98	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.172	172	300880	1119.07	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.675	330	51397	1249.76	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.280	244	323981	1101.20	ng/ml	0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.097	74	71767m	1055.23	ng/ml	
3) Pyridine	4.129	79	109455	997.03	ng/ml	95
6) Phenol	6.445	94	164407	1207.86	ng/ml	91
7) Aniline	6.477	93	142428	1663.59	ng/ml	96
8) Bis(2-chloroethyl) ether	6.536	93	134293	1009.30	ng/ml	95
9) 2-Chlorophenol	6.600	128	136512	1161.75	ng/ml	98
10) 1,3-Dichlorobenzene	6.755	146	153312	1071.25	ng/ml	97
11) 1,4-Dichlorobenzene	6.824	146	151306	1067.01	ng/ml	98
12) Benzyl alcohol	6.937	108	72680	979.40	ng/ml	96
13) 1,2-Dichlorobenzene	6.979	146	148815	1073.37	ng/ml	98
14) 2-Methylphenol	7.038	107	103180	1189.88	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	104143	1148.10	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.199	70	79272	1193.64	ng/ml	97
17) 3+4-Methylphenol	7.193	107	131137	1248.28	ng/ml	97
18) Hexachloroethane	7.316	201	54980	1190.16	ng/ml	99
20) Nitrobenzene	7.370	77	116940	1246.31	ng/ml	97
22) Isophorone	7.605	82	225073	1137.20	ng/ml	98
23) 2-Nitrophenol	7.691	139	76483	1330.36	ng/ml	90
24) 2,4-Dimethylphenol	7.723	122	101786	1066.03	ng/ml	95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 04 11:11:25 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	139907	1083.82	ng/ml	99
26) Benzoic acid	7.814	105	74029	2117.57	ng/ml	95
27) 2,4-Dichlorophenol	7.932	162	115818	1178.27	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.023	180	133493	1109.67	ng/ml	98
29) Naphthalene	8.103	128	395766	1096.30	ng/ml	100
30) 4-Chloroaniline	8.146	127	138876	1781.44	ng/ml	97
31) Hexachlorobutadiene	8.231	225	81995	1212.93	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	100251	1122.15	ng/ml	97
33) 2-Methylnaphthalene	8.803	142	286345	1137.12	ng/ml	98
34) 1-Methylnaphthalene	8.905	142	273645	1157.72	ng/ml	97
36) Hexachlorocyclopentadiene	8.975	237	82814	1368.29	ng/ml	99
37) 2,4,6-Trichlorophenol	9.087	196	79364	1132.33	ng/ml	98
38) 2,4,5-Trichlorophenol	9.119	198	81578	1144.67	ng/ml	100
39) 1,1'-Biphenyl	9.274	154	328464	1130.21	ng/ml	98
41) 2-Chloronaphthalene	9.301	162	252046	1130.39	ng/ml	97
42) 2-Nitroaniline	9.392	138	75035	1167.45	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.435	156	240228	1135.10	ng/ml	97
44) 1,4-Dinitrobenzene	9.520	168	35727	1175.94	ng/ml	97
45) Dimethyl phthalate	9.574	163	282536	1135.64	ng/ml	99
46) 1,3-Dinitrobenzene	9.606	168	41835	1117.11	ng/ml	95
47) 2,6-Dinitrotoluene	9.632	165	64471	1144.39	ng/ml	92
48) 1,2-Dinitrobenzene	9.697	168	29688	1171.71	ng/ml	96
49) Acenaphthylene	9.723	152	393104	1136.19	ng/ml	99
50) 3-Nitroaniline	9.809	138	53233	1330.10	ng/ml	92
51) Acenaphthene	9.905	153	250909	1073.34	ng/ml	99
52) 2,4-Dinitrophenol	9.916	184	15623	1290.60	ng/ml	99
53) 4-Nitrophenol	9.964	139	40369	1032.71	ng/ml	86
54) 2,4-Dinitrotoluene	10.050	165	79595	1143.91	ng/ml	95
55) Dibenzofuran	10.076	168	344038	1083.17	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	10.157	232	67059	1264.95	ng/ml	100
57) 2,3,4,6-Tetrachlorophenol	10.199	232	71513	1240.57	ng/ml	99
58) Diethyl phthalate	10.290	149	252486	1070.16	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.290	170	216538	1115.59	ng/ml	95
60) Fluorene	10.429	166	264916	1067.79	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.419	204	133216	1085.29	ng/ml	96
62) 4-Nitroaniline	10.435	138	38255	855.03	ng/ml	89
63) 4,6-Dinitro-2-methylph...	10.467	198	33547	1371.38	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 04 11:11:25 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

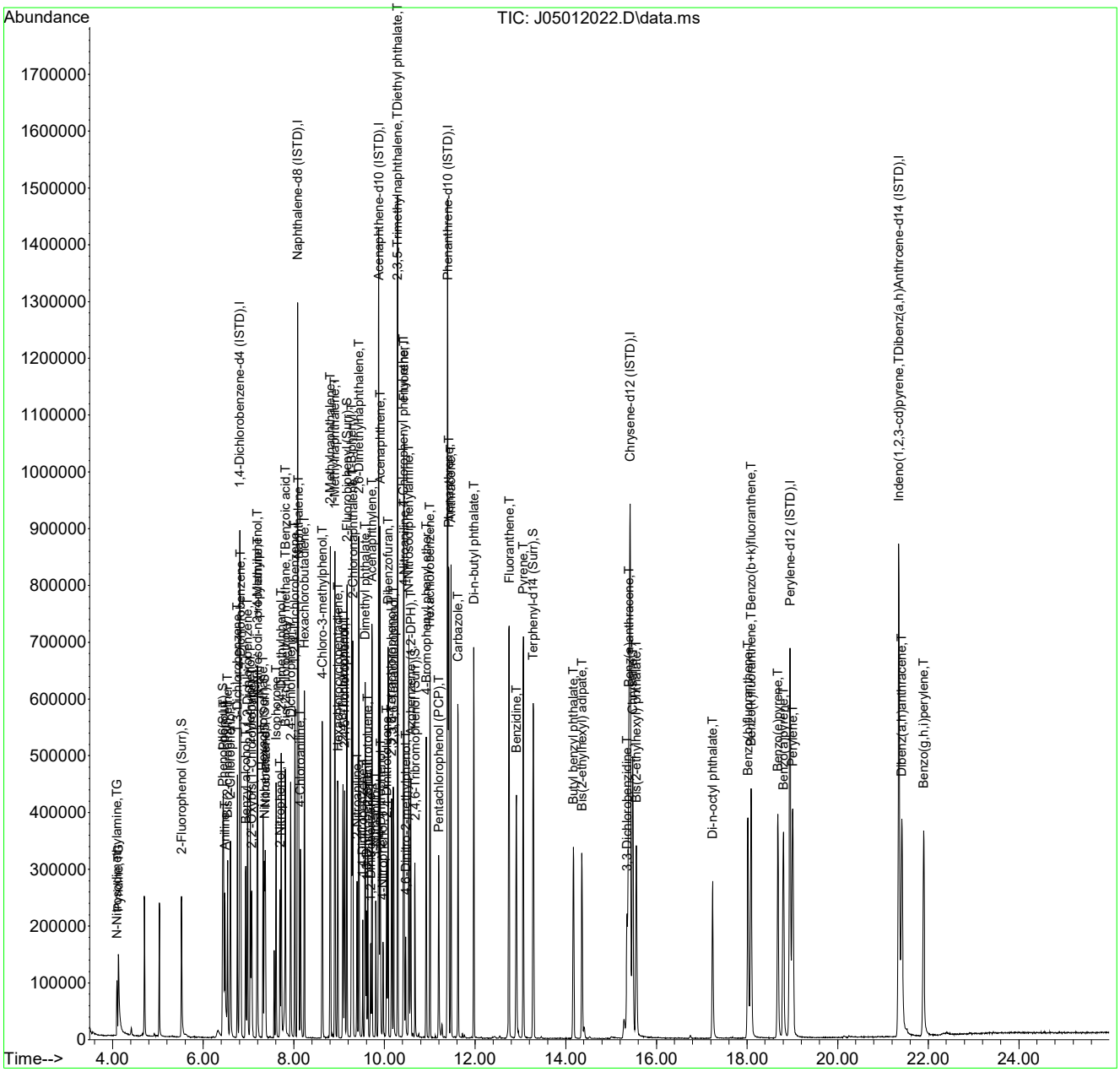
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.536	169	219644	1127.24	ng/ml	99
66) Azobenzene (1,2-DPH)	10.584	77	196742	1075.60	ng/ml	97
68) 4-Bromophenyl phenyl e...	10.921	248	84868	1114.96	ng/ml	99
69) Hexachlorobenzene	11.002	284	106186	1119.90	ng/ml	97
70) Pentachlorophenol (PCP)	11.200	266	48576	1225.58	ng/ml	100
71) Phenanthrene	11.419	178	387103	1081.82	ng/ml	99
72) Anthracene	11.467	178	384415	1096.26	ng/ml	99
73) Carbazole	11.622	167	304625	1066.35	ng/ml	99
74) Di-n-butyl phthalate	11.970	149	387289	1032.10	ng/ml	99
75) Fluoranthene	12.751	202	429221	1144.47	ng/ml	97
76) Benzidine	12.911	184	245551	4113.12	ng/ml	97
77) Pyrene	13.066	202	431711	1116.63	ng/ml	99
80) Butyl benzyl phthalate	14.168	149	147273	986.79	ng/ml	97
81) Bis(2-ethylhexyl) adipate	14.355	129	116223	902.50	ng/ml	98
82) 3,3-Dichlorobenzidine	15.355	252	102426	3270.71	ng/ml	96
83) Benz(a)anthracene	15.393	228	366477	1022.70	ng/ml	98
84) Chrysene	15.479	228	356254	1079.90	ng/ml	100
85) Bis(2-ethylhexyl) phth...	15.559	149	198143	963.43	ng/ml	96
87) Di-n-octyl phthalate	17.244	149	285782	839.38	ng/ml	98
88) Benzo(b)fluoranthene	18.024	252	358551	1093.53	ng/ml	97
89) Benzo(k)fluoranthene	18.089	252	357907	1080.12	ng/ml	97
90) Benzo(b+k)fluoranthene	18.089	252	736112	2161.63	ng/ml	97
91) Benzo(e)pyrene	18.682	252	336483	1059.52	ng/ml	99
92) Benzo(a)pyrene	18.805	252	303653	1110.43	ng/ml	97
93) Perylene	19.009	252	353777	1230.06	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.351	276	299618	1000.50	ng/ml	92
96) Dibenz(a,h)anthracene	21.415	278	292798	1093.53	ng/ml	94
97) Benzo(g,h,i)perylene	21.897	276	315566	1051.07	ng/ml	94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 04 11:11:25 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Final Requant

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	180023	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	696290	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.873	162	360502	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	649765	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.420	240	633809	2000.00	ng/ml	0.02
86) Perylene-d12 (ISTD)	18.950	264	601034	2000.00	ng/ml	0.02
94) Dibenz(a,h)Anthrcene-d...	21.351	292	505867	2000.00	ng/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	119165	1090.39	ng/ml	0.00
5) Phenol-d6(Surr)	6.434	99	147152	1143.74	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	116417	1147.14	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.172	172	300880	1047.64	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.675	330	51397	1114.45	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.280	244	323981	1053.12	ng/ml	0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.097	74	71767m	1108.56	ng/ml	
3) Pyridine	4.129	79	109455	1032.74	ng/ml	95
6) Phenol	6.445	94	164407	1230.47	ng/ml	91
7) Aniline	6.477	93	142428	1062.63	ng/ml	96
8) Bis(2-chloroethyl) ether	6.536	93	134293	1131.85	ng/ml	95
9) 2-Chlorophenol	6.600	128	136512	1126.54	ng/ml	98
10) 1,3-Dichlorobenzene	6.755	146	153312	1041.87	ng/ml	97
11) 1,4-Dichlorobenzene	6.824	146	151306	1061.40	ng/ml	98
12) Benzyl alcohol	6.937	108	72680	1114.55	ng/ml	96
13) 1,2-Dichlorobenzene	6.979	146	148815	1084.34	ng/ml	98
14) 2-Methylphenol	7.038	107	103180	1185.83	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	104143	1126.03	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.199	70	79272	1174.89	ng/ml	97
17) 3+4-Methylphenol	7.193	107	131137	1202.52	ng/ml	97
18) Hexachloroethane	7.316	201	54980	1079.19	ng/ml	99
20) Nitrobenzene	7.370	77	116940	1157.93	ng/ml	97
22) Isophorone	7.605	82	225073	1100.11	ng/ml	98
23) 2-Nitrophenol	7.691	139	76483	1165.74	ng/ml	90
24) 2,4-Dimethylphenol	7.723	122	101786	1021.47	ng/ml	95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	139907	1101.95	ng/ml	99
26) Benzoic acid	7.814	105	74029	2143.15	ng/ml	95
27) 2,4-Dichlorophenol	7.932	162	115818	1152.76	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.023	180	133493	1049.72	ng/ml	98
29) Naphthalene	8.103	128	395766	1064.03	ng/ml	100
30) 4-Chloroaniline	8.146	127	138876	1182.10	ng/ml	97
31) Hexachlorobutadiene	8.231	225	81995	1050.38	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	100251	1145.59	ng/ml	97
33) 2-Methylnaphthalene	8.803	142	286345	1131.32	ng/ml	98
34) 1-Methylnaphthalene	8.905	142	273645	1151.88	ng/ml	97
36) Hexachlorocyclopentadiene	8.975	237	82814	1124.00	ng/ml	99
37) 2,4,6-Trichlorophenol	9.087	196	79364	1067.91	ng/ml	98
38) 2,4,5-Trichlorophenol	9.119	198	81578	1101.86	ng/ml	100
39) 1,1'-Biphenyl	9.274	154	328464	1083.66	ng/ml	98
41) 2-Chloronaphthalene	9.301	162	252046	1070.55	ng/ml	97
42) 2-Nitroaniline	9.392	138	75035	1147.62	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.435	156	240228	1090.69	ng/ml	97
44) 1,4-Dinitrobenzene	9.520	168	35727	1102.15	ng/ml	97
45) Dimethyl phthalate	9.574	163	282536	1088.34	ng/ml	99
46) 1,3-Dinitrobenzene	9.606	168	41835	1090.53	ng/ml	95
47) 2,6-Dinitrotoluene	9.632	165	64471	1100.77	ng/ml	92
48) 1,2-Dinitrobenzene	9.697	168	29688	1097.99	ng/ml	96
49) Acenaphthylene	9.723	152	393104	1124.21	ng/ml	99
50) 3-Nitroaniline	9.809	138	53233	1018.91	ng/ml	92
51) Acenaphthene	9.905	153	250909	1062.84	ng/ml	99
52) 2,4-Dinitrophenol	9.916	184	15623	985.13	ng/ml	99
53) 4-Nitrophenol	9.964	139	40369	1051.72	ng/ml	86
54) 2,4-Dinitrotoluene	10.050	165	79595	1057.79	ng/ml	95
55) Dibenzofuran	10.076	168	344038	1053.85	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	10.157	232	67059	1085.62	ng/ml	100
57) 2,3,4,6-Tetrachlorophenol	10.199	232	71513	1084.07	ng/ml	99
58) Diethyl phthalate	10.290	149	252486	1027.40	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.290	170	216538	1075.29	ng/ml	95
60) Fluorene	10.429	166	264916	1053.88	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.419	204	133216	1017.01	ng/ml	96
62) 4-Nitroaniline	10.435	138	38255	987.35	ng/ml	89
63) 4,6-Dinitro-2-methylph...	10.467	198	33547	1002.76	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

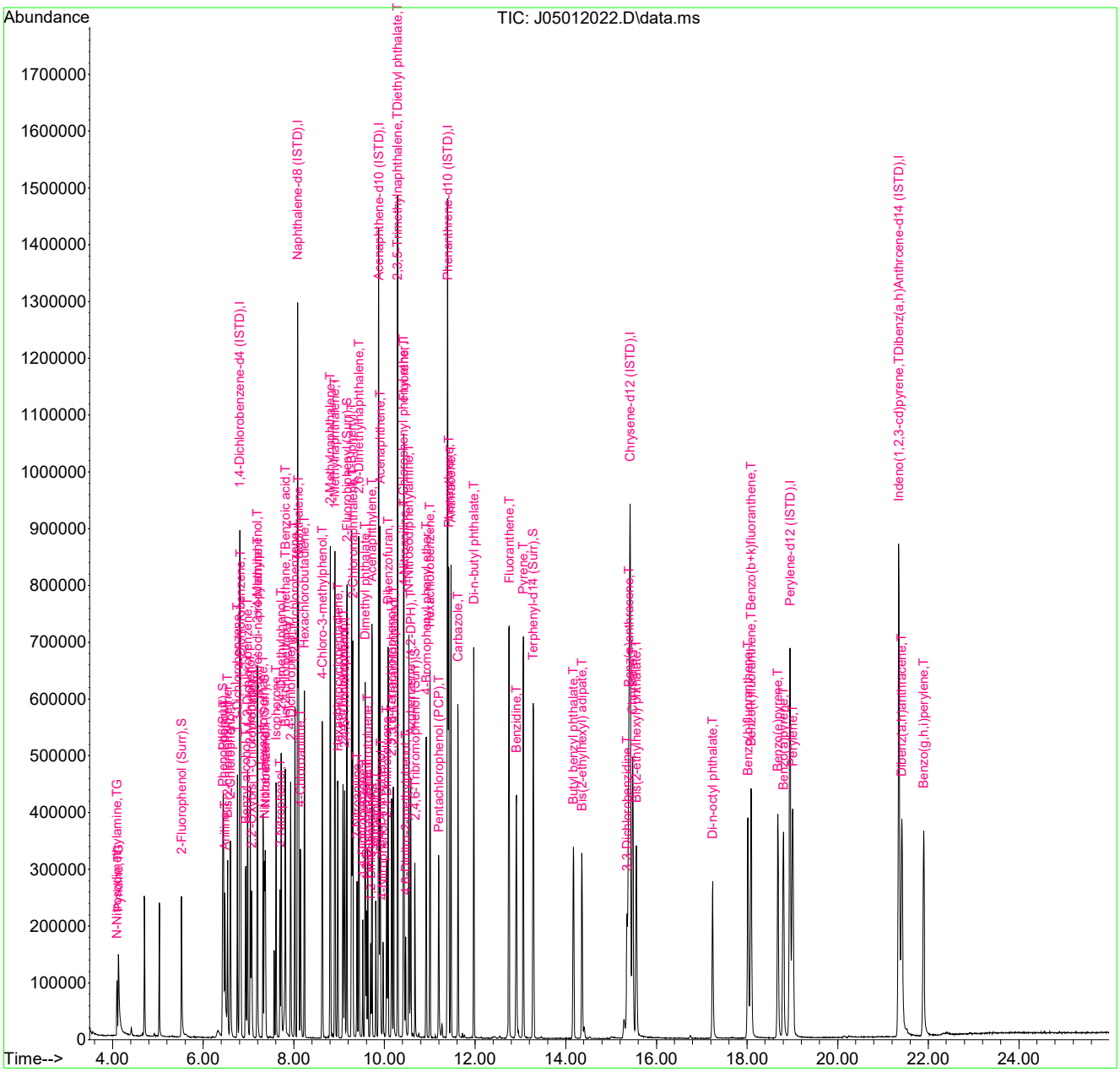
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.536	169	219644	1112.25	ng/ml	99
66) Azobenzene (1,2-DPH)	10.584	77	196742	1093.44	ng/ml	97
68) 4-Bromophenyl phenyl e...	10.921	248	84868	1045.46	ng/ml	99
69) Hexachlorobenzene	11.002	284	106186	1020.87	ng/ml	97
70) Pentachlorophenol (PCP)	11.200	266	48576	1108.71	ng/ml	100
71) Phenanthrene	11.419	178	387103	1058.61	ng/ml	99
72) Anthracene	11.467	178	384415	1094.79	ng/ml	99
73) Carbazole	11.622	167	304625	1041.55	ng/ml	99
74) Di-n-butyl phthalate	11.970	149	387289	1059.40	ng/ml	99
75) Fluoranthene	12.751	202	429221	1093.71	ng/ml	97
76) Benzidine	12.911	184	245551	1830.36	ng/ml	97
77) Pyrene	13.066	202	431711	1099.15	ng/ml	99
80) Butyl benzyl phthalate	14.168	149	147273	1091.88	ng/ml	97
81) Bis(2-ethylhexyl) adipate	14.355	129	116223	945.39	ng/ml	98
82) 3,3-Dichlorobenzidine	15.355	252	102426	2016.55	ng/ml	96
83) Benz(a)anthracene	15.393	228	366477	1019.74	ng/ml	98
84) Chrysene	15.479	228	356254	1052.42	ng/ml	100
85) Bis(2-ethylhexyl) phth...	15.559	149	198143	1015.55	ng/ml	96
87) Di-n-octyl phthalate	17.244	149	285782	1020.61	ng/ml	98
88) Benzo(b)fluoranthene	18.024	252	358551	1096.89	ng/ml	97
89) Benzo(k)fluoranthene	18.089	252	357810	1082.65	ng/ml	97
90) Benzo(b+k)fluoranthene	18.089	252	736112	2160.40	ng/ml	97
91) Benzo(e)pyrene	18.682	252	336483	1120.08	ng/ml	99
92) Benzo(a)pyrene	18.805	252	303653	1112.92	ng/ml	97
93) Perylene	19.009	252	353777	1221.85	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.351	276	299618	1018.76	ng/ml	92
96) Dibenz(a,h)anthracene	21.415	278	292798	1071.36	ng/ml	94
97) Benzo(g,h,i)perylene	21.897	276	315566	1133.57	ng/ml	94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Total Metals by EPA 6020A (ICPMS)
Benchsheet Data and Analysis (Including Calibration)

Batch 0050749
Sequence 0E20067

APEX LABORATORIES

Ag (Silver) - 6020 - Total
Al (Aluminum) - 6020 - Total
As (Arsenic) - 6020 - Total
Ba (Barium) - 6020 - Total
Be (Beryllium) - 6020 - Total
Ca (Calcium) - 6020 - Total
Cd (Cadmium) - 6020 - Total
Co (Cobalt) - 6020 - Total

PREPARATION BENCH SHEET

0050749

JUN 0 2 2020

Apex Laboratories
BATCH #: 0050749 (Water)
Prep Method: EPA 3015A

Lab Number	Due	Prepared	Initial (mL)	Final (mL)	Client	ClientID / Sample	Extraction Comments
0050749-BLK1	---	05/20/20 12:17	45	50	QC Sample		
0050749-BS1	---	05/20/20 12:17	45	50	QC Sample		
Spike 1: 500 uL of A20E022 Spike 2: 50 uL of A20D274							
A0E0223-01	05/20/20	05/20/20 12:17	45	50	Anchor QEA, LLC	PDI-071SC-C-00-08-20050(	Total As,Cr,Cu,Zn
☐ As (Arsenic) - 6020 - Total ☐ Cr (Chromium) - 6020 - Total ☐ Cu (Copper) - 6020 - Total ☐ Zn (Zinc) - 6020 - Total							
A0E0264-01	05/21/20	05/20/20 12:17	45	50	Anchor QEA, LLC	PDI-FB-2005071044	
☐ As (Arsenic) - 6020 - Total							
A0E0264-02	05/21/20	05/20/20 12:17	45	50	Anchor QEA, LLC	PDI-RB-2005071052	
☐ As (Arsenic) - 6020 - Total							
A0E0347-01	05/27/20	05/20/20 12:17	45	50	Anchor QEA, LLC	PDI-FB-2005121245	Added for BatchQC in 0050749
☐ As (Arsenic) - 6020 - Total							
Batch QC:							
☐ Ag (Silver) - 6020 - Total ☐ Al (Aluminum) - 6020 - Total ☐ Ba (Barium) - 6020 - Total ☐ Be (Beryllium) - 6020 - Total ☐ Ca (Calcium) - 6020 - Total ☐ Cd (Cadmium) - 6020 - Total ☐ Co (Cobalt) - 6020 - Total							
☐ Cr (Chromium) - 6020 - Total ☐ Cu (Copper) - 6020 - Total ☐ Fe (Iron) - 6020 - Total ☐ Hg (Mercury) - 6020 - Total ☐ K (Potassium) - 6020 - Total ☐ Mg (Magnesium) - 6020 - Total ☐ Mn (Manganese) - 6020 - Total							
☐ Na (Sodium) - 6020 - Total ☐ Ni (Nickel) - 6020 - Total ☐ Pb (Lead) - 6020 - Total ☐ Sb (Antimony) - 6020 - Total ☐ Se (Selenium) - 6020 - Total ☐ Tl (Thallium) - 6020 - Total ☐ V (Vanadium) - 6020 - Total							
☐ Zn (Zinc) - 6020 - Total							
0050749-DUP1	---	05/20/20 12:17	45	50	QC Sample		
Source: A0E0347-01							
0050749-MS1	---	05/20/20 12:17	45	50	QC Sample		
Source: A0E0347-01 Spike 1: 500 uL of A20E022 Spike 2: 50 uL of A20D274							
A0E0347-02	05/27/20	05/20/20 12:17	45	50	Anchor QEA, LLC	PDI-RB-2005121245	
☐ As (Arsenic) - 6020 - Total							
A0E0504-01	05/21/20	05/20/20 12:17	45	50	Anchor QEA, LLC	1-FS-NOANTI	
☐ Ag (Silver) - 6020 - Total ☐ Al (Aluminum) - 6020 - Total ☐ As (Arsenic) - 6020 - Total ☐ Ba (Barium) - 6020 - Total ☐ Be (Beryllium) - 6020 - Total ☐ Ca (Calcium) - 6020 - Total ☐ Cd (Cadmium) - 6020 - Total							
☐ Co (Cobalt) - 6020 - Total ☐ Cr (Chromium) - 6020 - Total ☐ Cu (Copper) - 6020 - Total ☐ Fe (Iron) - 6020 - Total ☐ Hg (Mercury) - 6020 - Total ☐ K (Potassium) - 6020 - Total ☐ Mg (Magnesium) - 6020 - Total							
☐ Mn (Manganese) - 6020 - Total ☐ Na (Sodium) - 6020 - Total ☐ Ni (Nickel) - 6020 - Total ☐ Pb (Lead) - 6020 - Total ☐ Sb (Antimony) - 6020 - Total ☐ Se (Selenium) - 6020 - Total ☐ Tl (Thallium) - 6020 - Total							
☐ V (Vanadium) - 6020 - Total ☐ Zn (Zinc) - 6020 - Total							
A0E0504-02	05/21/20	05/20/20 12:17	45	50	Anchor QEA, LLC	2-FS-ANTI	
☐ Ag (Silver) - 6020 - Total ☐ Al (Aluminum) - 6020 - Total ☐ As (Arsenic) - 6020 - Total ☐ Ba (Barium) - 6020 - Total ☐ Be (Beryllium) - 6020 - Total ☐ Ca (Calcium) - 6020 - Total ☐ Cd (Cadmium) - 6020 - Total							
☐ Co (Cobalt) - 6020 - Total ☐ Cr (Chromium) - 6020 - Total ☐ Cu (Copper) - 6020 - Total ☐ Fe (Iron) - 6020 - Total ☐ Hg (Mercury) - 6020 - Total ☐ K (Potassium) - 6020 - Total ☐ Mg (Magnesium) - 6020 - Total							
☐ Mn (Manganese) - 6020 - Total ☐ Na (Sodium) - 6020 - Total ☐ Ni (Nickel) - 6020 - Total ☐ Pb (Lead) - 6020 - Total ☐ Sb (Antimony) - 6020 - Total ☐ Se (Selenium) - 6020 - Total ☐ Tl (Thallium) - 6020 - Total							
☐ V (Vanadium) - 6020 - Total ☐ Zn (Zinc) - 6020 - Total							

MSG 5/20/20
Prepared By: Date

CRL 9/20/20
Reviewed By: Date

APEX LABORATORIES

Apex Laboratories
BATCH #: 0050749 (Water)
Prep Method: EPA 3015A

Lab Number	Due	Prepared	Initial (mL)	Final (mL)	Client	ClientID / Sample	Extraction Comments
A0E0504-03	05/21/20	05/20/20 12:17	45	50	Anchor QEA, LLC	3-BC-SOLV	No color change, pH=7
A0E0504-04	05/21/20	05/20/20 12:17	45	50	Anchor QEA, LLC	4-SA-SOLV	No color change, pH=9
A0E0504-05	05/21/20	05/20/20 12:17	45	50	Anchor QEA, LLC	5-BC-GEN	No color change, pH=7
A0E0504-06	05/21/20	05/20/20 12:17	45	50	Anchor QEA, LLC	6-SA-GEN	No color change, pH=9
A0E0504-07	05/21/20	05/20/20 12:17	45	50	Anchor QEA, LLC	7-SA100-GEN	No color change, pH=9

Highly reactive to UV/H2O2, ~1 min, may have to dilute post pH adjustment

For each sample:

☐ Ag (Silver) - 6020 - Total	☐ Al (Aluminum) - 6020 - Total	☐ As (Arsenic) - 6020 - Total	☐ Ba (Barium) - 6020 - Total	☐ Be (Beryllium) - 6020 - Total	☐ Ca (Calcium) - 6020 - Total	☐ Cd (Cadmium) - 6020 - Total
☐ Co (Cobalt) - 6020 - Total	☐ Cr (Chromium) - 6020 - Total	☐ Cu (Copper) - 6020 - Total	☐ Fe (Iron) - 6020 - Total	☐ Hg (Mercury) - 6020 - Total	☐ K (Potassium) - 6020 - Total	☐ Mg (Magnesium) - 6020 - Total
☐ Mn (Manganese) - 6020 - Total	☐ Na (Sodium) - 6020 - Total	☐ Ni (Nickel) - 6020 - Total	☐ Pb (Lead) - 6020 - Total	☐ Sb (Antimony) - 6020 - Total	☐ Se (Selenium) - 6020 - Total	☐ Tl (Thallium) - 6020 - Total
☐ V (Vanadium) - 6020 - Total	☐ Zn (Zinc) - 6020 - Total					

MSG 5/20/20
Prepared By: Date

CRL 5/20/20
Reviewed By: Date

APEX LABORATORIES

Apex Laboratories
BATCH #: 0050749 (Water)
Prep Method: EPA 3015A

Lab Number	Due	Prepared	Initial (mL)	Final (mL)	Client	ClientID / Sample	Extraction Comments

MSG 5/20/20

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L213	11/30/23	Metals Prep Balance 2
A17F264	06/23/23	Mars-6 Microwave
A20B344	02/25/22	Conc. HCl - Omnitrace
A20E023	10/28/22	Conc. HNO3 - Omnitrace

Analyte Spike(s) MSG 5/20/20

Std ID	Exp. Date	Description
A20D274	10/14/20	Hg Spiking Standard
A20E022	07/09/20	**Combo Spike** A+B+C

A) A20E010 250 mL
B) A20C366 125 mL
C) A20C367 125 mL

Digestion time and temperature achieved?
Initials: MJG yes

MJG 5/20/20
Prepared By: Date

CEL 5/20/20
Reviewed By: Date

Batch #: 0050749

If observed weight loss < 0.2g Digestion is within control limits

If observed weight loss > 0.2g Enter data in to electronic VWW. Acceptance limit 1.0% sample loss.

Date: 5/20/2020 Prepared by: mjg

#	Mars Tube ID	Sample ID	Pre-digestion Vessel + Sample Wt. (g)	Post-digestion Vessel + Sample Wt. (g)	Sample Wt. Loss (%)* *Formula only used if sample loss >0.2g*
1	**W19**	0050749-BLK1	205.74	205.73	0.02%
2	**W24**	0050749-BS1	209.64	209.62	0.02%
3	**W37**	A0E0223-01	208.74	208.72	0.02%
4	**W89**	A0E0264-01	209.02	209.01	0.02%
5	**W95**	A0E0264-02	209.11	209.10	0.02%
6	**W64**	A0E0347-01	210.01	209.99	0.03%
7	**W69A**	0050749-DUP1	210.69	210.67	0.03%
8	**W55**	0050749-MS1	210.29	210.27	0.04%
9	**W27**	A0E0347-02	212.56	212.55	0.03%
10	**W60**	A0E0504-01	209.00	208.98	0.03%
11	**W65**	A0E0504-02	213.44	213.42	0.04%
12	***W50***	A0E0504-03	204.89	204.83	0.14%
13	***W51***	A0E0504-04	211.48	211.42	0.11%
14	***W7***	A0E0504-05	205.63	205.58	0.10%
15	***W108***	A0E0504-06	209.50	209.46	0.08%
16	***W72***	A0E0504-07	211.88	211.86	0.05%
17					n/a
18					n/a
19					n/a
20					n/a
21					n/a
22					n/a
23					n/a
24					n/a
25					n/a

*Example Calculation: (Pre(g) – Post(g))/(Post(g) – 159.32g) This represents the mean weight of the empty digestion vessels. By factoring in the mean digestion vessel weight, we observe weight loss from only the sample, rather than as a percentage of the sample+vessel weight.

Run Data

Method: US EPA 3015a
Date/Time: 05/20/2020 14:20

Time	Temperature (°C)
00:00	30
00:30	33
01:00	41
01:30	55
02:00	61
02:30	74
03:00	91
03:30	106
04:00	119
04:30	128
05:00	137
05:30	142
06:00	145
06:30	147
07:00	153
07:30	156
08:00	159
08:30	162
09:00	164
09:30	167
10:00	169
10:30	168
11:00	168
11:30	167
12:00	167
12:30	167
13:00	167
13:30	168
14:00	168
14:30	167
15:00	167
15:30	168
16:00	167
16:30	167
17:00	169
17:30	168
18:00	167

Time	Temperature (°C)
18:30	168
19:00	168
19:30	168
20:00	167

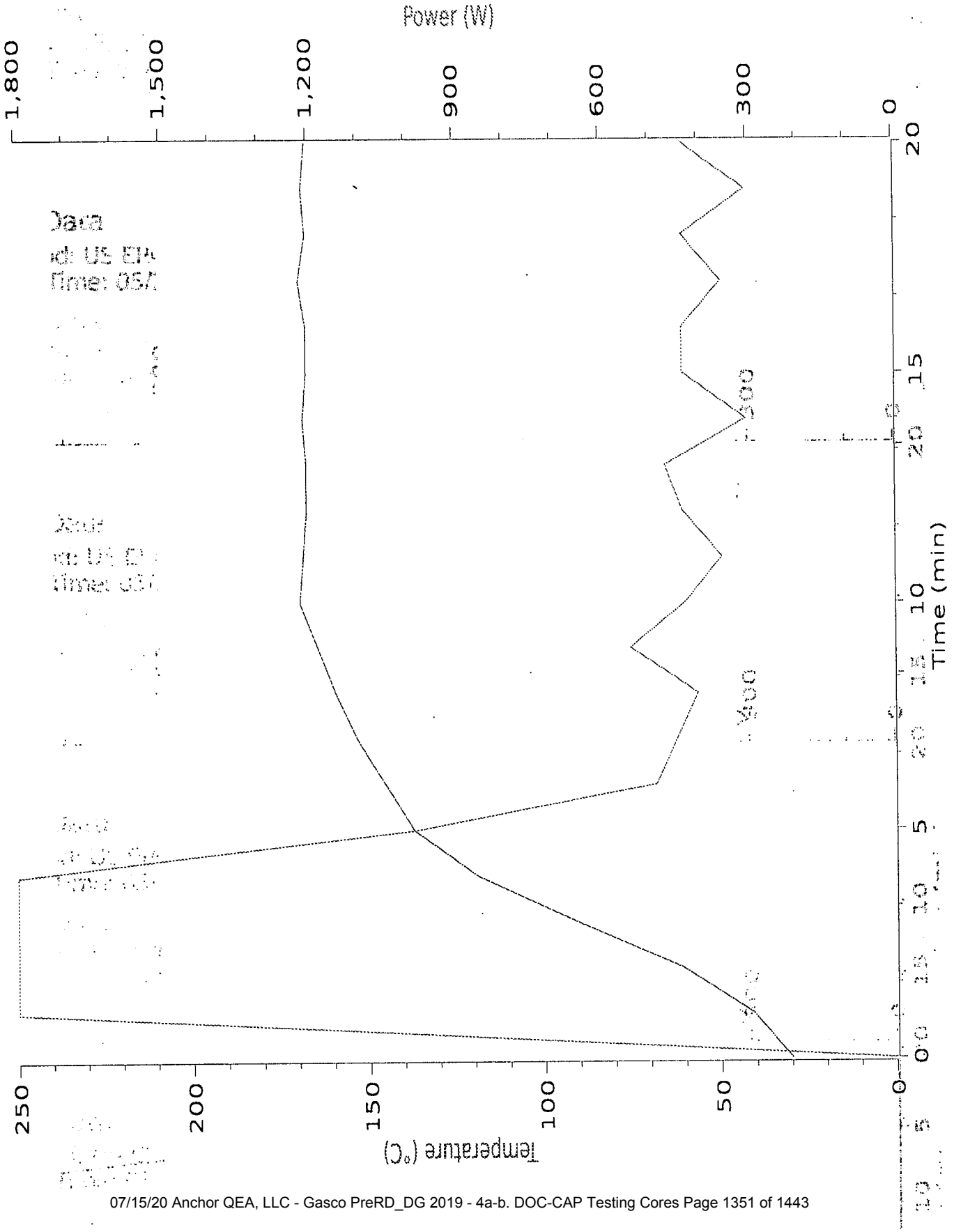
----- End Stage 1 -----

Run Data
Method: US EPA 3015a
Date/Time: 05/20/2020 14:20

Vessel	Temp
1	✔
2	✔
3	✔
4	✔
5	✔
6	✔
7	✔
8	✔
9	✔
10	✔
11	✔
12	✔
13	✔
14	✔
15	✔
16	✔

Run Data

Method: US EPA 3015a
Date/Time: 05/20/2020 14:20



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 0E20067 Instrument: ICPMS6

Date: **05/20/20 18:14** Calibration: **UNASSIGNED**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E20067-CAL1	Water	QC	QC			A20A220	A20E188
2	0E20067-CAL2	Water	QC	QC			A20A220	A20E189
3	0E20067-CAL3	Water	QC	QC			A20A220	A20E190
4	0E20067-CAL4	Water	QC	QC			A20A220	A20E191
5	0E20067-CAL5	Water	QC	QC			A20A220	A20E192
6	0E20067-CAL6	Water	QC	QC			A20A220	A20E185
7	0E20067-CAL7	Water	QC	QC			A20A220	A20E187
8	0E20067-CAL8	Water	QC	QC			A20A220	A20D402
9	0E20067-CAL9	Water	QC	QC			A20A220	A20E080
10	0E20067-ICV1	Water	QC	QC			A20A220	A20E094
11	0E20067-ICB1	Water	QC	QC			A20A220	
12	0E20067-CRL1	Water	QC	QC			A20A220	A20E188
13	0E20067-CRL2	Water	QC	QC			A20A220	A20E189
14	0E20067-CRL3	Water	QC	QC			A20A220	A20E190
15	0E20067-CRL4	Water	QC	QC			A20A220	A20E191
16	0E20067-IFA1	Water	QC	QC			A20A220	A20E205
17	0E20067-IFB1	Water	QC	QC			A20A220	A20E206
18	0050755-BLK1	Soil	QC	QC		0050755	A20A220	
19	0050755-BLK2	Soil	QC	QC		0050755	A20A220	
20	0050755-BLK3	Soil	QC	QC		0050755	A20A220	
21	0050755-BS1	Soil	QC	QC		0050755	A20A220	
22	A0E0236-30	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
23	"	Soil	Cd (Cadmium) - 6020 - Total		05/20/20	0050755	A20A220	
24	"	Soil	Cr (Chromium) - 6020 - Total		05/20/20	0050755	A20A220	
25	"	Soil	Cu (Copper) - 6020 - Total		05/20/20	0050755	A20A220	
26	"	Soil	Pb (Lead) - 6020 - Total		05/20/20	0050755	A20A220	
27	"	Soil	Zn (Zinc) - 6020 - Total		05/20/20	0050755	A20A220	
28	A0E0236-32	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
29	"	Soil	Cd (Cadmium) - 6020 - Total		05/20/20	0050755	A20A220	
30	"	Soil	Cr (Chromium) - 6020 - Total		05/20/20	0050755	A20A220	
31	"	Soil	Cu (Copper) - 6020 - Total		05/20/20	0050755	A20A220	
32	"	Soil	Pb (Lead) - 6020 - Total		05/20/20	0050755	A20A220	
33	"	Soil	Zn (Zinc) - 6020 - Total		05/20/20	0050755	A20A220	
34	A0E0236-34	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
35	"	Soil	Cd (Cadmium) - 6020 - Total		05/20/20	0050755	A20A220	
36	"	Soil	Cr (Chromium) - 6020 - Total		05/20/20	0050755	A20A220	
37	"	Soil	Cu (Copper) - 6020 - Total		05/20/20	0050755	A20A220	
38	"	Soil	Pb (Lead) - 6020 - Total		05/20/20	0050755	A20A220	
39	"	Soil	Zn (Zinc) - 6020 - Total		05/20/20	0050755	A20A220	
40	A0E0236-36	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
41	"	Soil	Cd (Cadmium) - 6020 - Total	"	05/20/20	0050755	A20A220	
42	"	Soil	Cr (Chromium) - 6020 - Total	"	05/20/20	0050755	A20A220	
43	"	Soil	Cu (Copper) - 6020 - Total	"	05/20/20	0050755	A20A220	
44	"	Soil	Pb (Lead) - 6020 - Total	"	05/20/20	0050755	A20A220	
45	"	Soil	Zn (Zinc) - 6020 - Total	"	05/20/20	0050755	A20A220	
46	0050755-DUP1	Soil	QC	QC		0050755	A20A220	
47	0E20067-CCV1	Water	QC	QC			A20A220	A20E094
48	0E20067-CCB1	Water	QC	QC			A20A220	
49	0050755-MS1	Soil	QC	QC		0050755	A20A220	
50	A0E0236-38	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
51	"	Soil	Cd (Cadmium) - 6020 - Total	"	05/20/20	0050755	A20A220	

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#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
52	"	Soil	Cr (Chromium) - 6020 - Total	"	05/20/20	0050755	A20A220	
53	"	Soil	Cu (Copper) - 6020 - Total	"	05/20/20	0050755	A20A220	
54	"	Soil	Pb (Lead) - 6020 - Total	"	05/20/20	0050755	A20A220	
55	"	Soil	Zn (Zinc) - 6020 - Total	"	05/20/20	0050755	A20A220	
56	A0E0236-40	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
57	"	Soil	Cd (Cadmium) - 6020 - Total		05/20/20	0050755	A20A220	
58	"	Soil	Cr (Chromium) - 6020 - Total		05/20/20	0050755	A20A220	
59	"	Soil	Cu (Copper) - 6020 - Total		05/20/20	0050755	A20A220	
60	"	Soil	Pb (Lead) - 6020 - Total		05/20/20	0050755	A20A220	
61	"	Soil	Zn (Zinc) - 6020 - Total		05/20/20	0050755	A20A220	
62	A0E0236-42	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
63	"	Soil	Cd (Cadmium) - 6020 - Total		05/20/20	0050755	A20A220	
64	"	Soil	Cr (Chromium) - 6020 - Total		05/20/20	0050755	A20A220	
65	"	Soil	Cu (Copper) - 6020 - Total		05/20/20	0050755	A20A220	
66	"	Soil	Pb (Lead) - 6020 - Total		05/20/20	0050755	A20A220	
67	"	Soil	Zn (Zinc) - 6020 - Total		05/20/20	0050755	A20A220	
68	A0E0236-44	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
69	"	Soil	Cd (Cadmium) - 6020 - Total		05/20/20	0050755	A20A220	
70	"	Soil	Cr (Chromium) - 6020 - Total		05/20/20	0050755	A20A220	
71	"	Soil	Cu (Copper) - 6020 - Total		05/20/20	0050755	A20A220	
72	"	Soil	Pb (Lead) - 6020 - Total		05/20/20	0050755	A20A220	
73	"	Soil	Zn (Zinc) - 6020 - Total		05/20/20	0050755	A20A220	
74	A0E0236-46	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
75	"	Soil	Cd (Cadmium) - 6020 - Total		05/20/20	0050755	A20A220	
76	"	Soil	Cr (Chromium) - 6020 - Total		05/20/20	0050755	A20A220	
77	"	Soil	Cu (Copper) - 6020 - Total		05/20/20	0050755	A20A220	
78	"	Soil	Pb (Lead) - 6020 - Total		05/20/20	0050755	A20A220	
79	"	Soil	Zn (Zinc) - 6020 - Total		05/20/20	0050755	A20A220	
80	A0E0236-48	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
81	"	Soil	Cd (Cadmium) - 6020 - Total		05/20/20	0050755	A20A220	
82	"	Soil	Cr (Chromium) - 6020 - Total		05/20/20	0050755	A20A220	
83	"	Soil	Cu (Copper) - 6020 - Total		05/20/20	0050755	A20A220	
84	"	Soil	Pb (Lead) - 6020 - Total		05/20/20	0050755	A20A220	
85	"	Soil	Zn (Zinc) - 6020 - Total		05/20/20	0050755	A20A220	
86	A0E0236-50	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
87	"	Soil	Cd (Cadmium) - 6020 - Total		05/20/20	0050755	A20A220	
88	"	Soil	Cr (Chromium) - 6020 - Total		05/20/20	0050755	A20A220	
89	"	Soil	Cu (Copper) - 6020 - Total		05/20/20	0050755	A20A220	
90	"	Soil	Pb (Lead) - 6020 - Total		05/20/20	0050755	A20A220	
91	"	Soil	Zn (Zinc) - 6020 - Total		05/20/20	0050755	A20A220	
92	A0E0236-52	Soil	As (Arsenic) - 6020 - Total		05/20/20	0050755	A20A220	
93	"	Soil	Cd (Cadmium) - 6020 - Total	"	05/20/20	0050755	A20A220	
94	"	Soil	Cr (Chromium) - 6020 - Total	"	05/20/20	0050755	A20A220	
95	"	Soil	Cu (Copper) - 6020 - Total	"	05/20/20	0050755	A20A220	
96	"	Soil	Pb (Lead) - 6020 - Total	"	05/20/20	0050755	A20A220	
97	"	Soil	Zn (Zinc) - 6020 - Total	"	05/20/20	0050755	A20A220	
98	0050755-MSD1	Soil	QC	QC		0050755	A20A220	
99	0E20067-CCV2	Water	QC	QC			A20A220	A20E094
100	0E20067-CCB2	Water	QC	QC			A20A220	
101	0E20067-CRL5	Water	QC	QC			A20A220	A20E188
102	0E20067-CRL6	Water	QC	QC			A20A220	A20E189
103	0E20067-CRL7	Water	QC	QC			A20A220	A20E190
104	0E20067-CRL8	Water	QC	QC			A20A220	A20E191
105	0050776-BLK1	Water	QC	QC		0050776	A20A220	
106	0050776-BS1	Water	QC	QC		0050776	A20A220	

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#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
107	A0E0223-02	Water	As (Arsenic) - 6020 - Dissolved	Anchor QEA, LLC	05/20/20	0050776	A20A220	
108	"	Water	Cr (Chromium) - 6020 - Dissolved	"	05/20/20	0050776	A20A220	
109	"	Water	Cu (Copper) - 6020 - Dissolved	"	05/20/20	0050776	A20A220	
110	"	Water	Zn (Zinc) - 6020 - Dissolved	"	05/20/20	0050776	A20A220	
111	0050776-DUP1	Water	QC	QC		0050776	A20A220	
112	0050776-MS1	Water	QC	QC		0050776	A20A220	
113	0050754-BLK1	Water	QC	QC		0050754	A20A220	
114	0050754-BS1	Water	QC	QC		0050754	A20A220	
115	A0E0328-03RE1	Water	Pb (Lead) - 6020 - Total		05/26/20	0050754	A20A220	
116	A0E0362-01RE1	Water	Pb (Lead) - 6020 - Total		05/19/20	0050754	A20A220	
117	0E20067-CCV3	Water	QC	QC			A20A220	A20E094
118	0E20067-CCB3	Water	QC	QC			A20A220	
119	A0E0483-01RE1	Water	Pb (Lead) - 6020 - Total		05/22/20	0050754	A20A220	
120	A0E0497-01	Water	Cr (Chromium) - 6020 - Total		05/26/20	0050754	A20A220	
121	A0E0534-01	Water	Pb (Lead) - 6020 - Total		05/26/20	0050754	A20A220	
122	A0E0534-02	Water	Pb (Lead) - 6020 - Total		05/26/20	0050754	A20A220	
123	A0E0534-03	Water	Pb (Lead) - 6020 - Total		05/26/20	0050754	A20A220	
124	A0E0534-04	Water	Pb (Lead) - 6020 - Total		05/26/20	0050754	A20A220	
125	A0E0534-05	Water	Pb (Lead) - 6020 - Total		05/26/20	0050754	A20A220	
126	A0E0534-06	Water	Pb (Lead) - 6020 - Total		05/26/20	0050754	A20A220	
127	A0E0534-07	Water	Pb (Lead) - 6020 - Total		05/26/20	0050754	A20A220	
128	A0E0534-08	Water	Cr (Chromium) - 6020 - Total	(QC Source)		0050754	A20A220	
129	"	Water	Pb (Lead) - 6020 - Total	"	05/26/20	0050754	A20A220	
130	0E20067-CCV4	Water	QC	QC			A20A220	A20E094
131	0E20067-CCB4	Water	QC	QC			A20A220	
132	0050754-DUP1	Water	QC	QC		0050754	A20A220	
133	0050754-MS1	Water	QC	QC		0050754	A20A220	
134	0050749-BLK1	Water	QC	QC		0050749	A20A220	
135	0050749-BS1	Water	QC	QC		0050749	A20A220	
136	A0E0223-01	Water	As (Arsenic) - 6020 - Total	Anchor QEA, LLC	05/20/20	0050749	A20A220	
137	"	Water	Cr (Chromium) - 6020 - Total	"	05/20/20	0050749	A20A220	
138	"	Water	Cu (Copper) - 6020 - Total	"	05/20/20	0050749	A20A220	
139	"	Water	Zn (Zinc) - 6020 - Total	"	05/20/20	0050749	A20A220	
140	A0E0264-01	Water	As (Arsenic) - 6020 - Total	Anchor QEA, LLC	05/21/20	0050749	A20A220	
141	A0E0264-02	Water	As (Arsenic) - 6020 - Total	Anchor QEA, LLC	05/21/20	0050749	A20A220	
142	A0E0347-01	Water	Ag (Silver) - 6020 - Total	(QC Source)		0050749	A20A220	
143	"	Water	Al (Aluminum) - 6020 - Total	(QC Source)		0050749	A20A220	
144	"	Water	As (Arsenic) - 6020 - Total	"	05/27/20	0050749	A20A220	
145	"	Water	Ba (Barium) - 6020 - Total	(QC Source)		0050749	A20A220	
146	"	Water	Be (Beryllium) - 6020 - Total	(QC Source)		0050749	A20A220	
147	"	Water	Ca (Calcium) - 6020 - Total	(QC Source)		0050749	A20A220	
148	"	Water	Cd (Cadmium) - 6020 - Total	(QC Source)		0050749	A20A220	
149	"	Water	Co (Cobalt) - 6020 - Total	(QC Source)		0050749	A20A220	
150	"	Water	Cr (Chromium) - 6020 - Total	(QC Source)		0050749	A20A220	
151	"	Water	Cu (Copper) - 6020 - Total	(QC Source)		0050749	A20A220	
152	"	Water	Fe (Iron) - 6020 - Total	(QC Source)		0050749	A20A220	
153	"	Water	Hg (Mercury) - 6020 - Total	(QC Source)		0050749	A20A220	
154	"	Water	K (Potassium) - 6020 - Total	(QC Source)		0050749	A20A220	
155	"	Water	Mg (Magnesium) - 6020 - Total	(QC Source)		0050749	A20A220	
156	"	Water	Mn (Manganese) - 6020 - Total	(QC Source)		0050749	A20A220	
157	"	Water	Na (Sodium) - 6020 - Total	(QC Source)		0050749	A20A220	
158	"	Water	Ni (Nickel) - 6020 - Total	(QC Source)		0050749	A20A220	
159	"	Water	Pb (Lead) - 6020 - Total	(QC Source)		0050749	A20A220	
160	"	Water	Sb (Antimony) - 6020 - Total	(QC Source)		0050749	A20A220	
161	"	Water	Se (Selenium) - 6020 - Total	(QC Source)		0050749	A20A220	

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#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
162	"	Water	Tl (Thallium) - 6020 - Total	(QC Source)		0050749	A20A220	
163	"	Water	V (Vanadium) - 6020 - Total	(QC Source)		0050749	A20A220	
164	"	Water	Zn (Zinc) - 6020 - Total	(QC Source)		0050749	A20A220	
165	0050749-DUP1	Water	QC	QC		0050749	A20A220	
166	0E20067-CCV5	Water	QC	QC			A20A220	A20E094
167	0E20067-CCB5	Water	QC	QC			A20A220	
168	0050749-MS1	Water	QC	QC		0050749	A20A220	
169	A0E0347-02	Water	As (Arsenic) - 6020 - Total	Anchor QEA, LLC	05/27/20	0050749	A20A220	
170	0E20067-CCV6	Water	QC	QC			A20A220	A20E094
171	0E20067-CCB6	Water	QC	QC			A20A220	
172	0E20067-CRL9	Water	QC	QC			A20A220	A20E188
173	0E20067-CRLA	Water	QC	QC			A20A220	A20E189
174	0E20067-CRLB	Water	QC	QC			A20A220	A20E190
175	0E20067-CRLC	Water	QC	QC			A20A220	A20E191
176	A0E0504-01	Water	Ag (Silver) - 6020 - Total	Anchor QEA, LLC	05/21/20	0050749	A20A220	
177	"	Water	Al (Aluminum) - 6020 - Total	"	05/21/20	0050749	A20A220	
178	"	Water	As (Arsenic) - 6020 - Total	"	05/21/20	0050749	A20A220	
179	"	Water	Ba (Barium) - 6020 - Total	"	05/21/20	0050749	A20A220	
180	"	Water	Be (Beryllium) - 6020 - Total	"	05/21/20	0050749	A20A220	
181	"	Water	Ca (Calcium) - 6020 - Total	"	05/21/20	0050749	A20A220	
182	"	Water	Cd (Cadmium) - 6020 - Total	"	05/21/20	0050749	A20A220	
183	"	Water	Co (Cobalt) - 6020 - Total	"	05/21/20	0050749	A20A220	
184	"	Water	Cr (Chromium) - 6020 - Total	"	05/21/20	0050749	A20A220	
185	"	Water	Cu (Copper) - 6020 - Total	"	05/21/20	0050749	A20A220	
186	"	Water	Fe (Iron) - 6020 - Total	"	05/21/20	0050749	A20A220	
187	"	Water	Hg (Mercury) - 6020 - Total	"	05/21/20	0050749	A20A220	
188	"	Water	K (Potassium) - 6020 - Total	"	05/21/20	0050749	A20A220	
189	"	Water	Mg (Magnesium) - 6020 - Total	"	05/21/20	0050749	A20A220	
190	"	Water	Mn (Manganese) - 6020 - Total	"	05/21/20	0050749	A20A220	
191	"	Water	Na (Sodium) - 6020 - Total	"	05/21/20	0050749	A20A220	
192	"	Water	Ni (Nickel) - 6020 - Total	"	05/21/20	0050749	A20A220	
193	"	Water	Pb (Lead) - 6020 - Total	"	05/21/20	0050749	A20A220	
194	"	Water	Sb (Antimony) - 6020 - Total	"	05/21/20	0050749	A20A220	
195	"	Water	Se (Selenium) - 6020 - Total	"	05/21/20	0050749	A20A220	
196	"	Water	Tl (Thallium) - 6020 - Total	"	05/21/20	0050749	A20A220	
197	"	Water	V (Vanadium) - 6020 - Total	"	05/21/20	0050749	A20A220	
198	"	Water	Zn (Zinc) - 6020 - Total	"	05/21/20	0050749	A20A220	
199	A0E0504-02	Water	Ag (Silver) - 6020 - Total	Anchor QEA, LLC	05/21/20	0050749	A20A220	
200	"	Water	Al (Aluminum) - 6020 - Total	"	05/21/20	0050749	A20A220	
201	"	Water	As (Arsenic) - 6020 - Total	"	05/21/20	0050749	A20A220	
202	"	Water	Ba (Barium) - 6020 - Total	"	05/21/20	0050749	A20A220	
203	"	Water	Be (Beryllium) - 6020 - Total	"	05/21/20	0050749	A20A220	
204	"	Water	Ca (Calcium) - 6020 - Total	"	05/21/20	0050749	A20A220	
205	"	Water	Cd (Cadmium) - 6020 - Total	"	05/21/20	0050749	A20A220	
206	"	Water	Co (Cobalt) - 6020 - Total	"	05/21/20	0050749	A20A220	
207	"	Water	Cr (Chromium) - 6020 - Total	"	05/21/20	0050749	A20A220	
208	"	Water	Cu (Copper) - 6020 - Total	"	05/21/20	0050749	A20A220	
209	"	Water	Fe (Iron) - 6020 - Total	"	05/21/20	0050749	A20A220	
210	"	Water	Hg (Mercury) - 6020 - Total	"	05/21/20	0050749	A20A220	
211	"	Water	K (Potassium) - 6020 - Total	"	05/21/20	0050749	A20A220	
212	"	Water	Mg (Magnesium) - 6020 - Total	"	05/21/20	0050749	A20A220	
213	"	Water	Mn (Manganese) - 6020 - Total	"	05/21/20	0050749	A20A220	
214	"	Water	Na (Sodium) - 6020 - Total	"	05/21/20	0050749	A20A220	
215	"	Water	Ni (Nickel) - 6020 - Total	"	05/21/20	0050749	A20A220	
216	"	Water	Pb (Lead) - 6020 - Total	"	05/21/20	0050749	A20A220	

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#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
217	"	Water	Sb (Antimony) - 6020 - Total	"	05/21/20	0050749	A20A220	
218	"	Water	Se (Selenium) - 6020 - Total	"	05/21/20	0050749	A20A220	
219	"	Water	Tl (Thallium) - 6020 - Total	"	05/21/20	0050749	A20A220	
220	"	Water	V (Vanadium) - 6020 - Total	"	05/21/20	0050749	A20A220	
221	"	Water	Zn (Zinc) - 6020 - Total	"	05/21/20	0050749	A20A220	
222	A0E0504-03	Water	Ag (Silver) - 6020 - Total	Anchor QEA, LLC	05/21/20	0050749	A20A220	
223	"	Water	Al (Aluminum) - 6020 - Total	"	05/21/20	0050749	A20A220	
224	"	Water	As (Arsenic) - 6020 - Total	"	05/21/20	0050749	A20A220	
225	"	Water	Ba (Barium) - 6020 - Total	"	05/21/20	0050749	A20A220	
226	"	Water	Be (Beryllium) - 6020 - Total	"	05/21/20	0050749	A20A220	
227	"	Water	Ca (Calcium) - 6020 - Total	"	05/21/20	0050749	A20A220	
228	"	Water	Cd (Cadmium) - 6020 - Total	"	05/21/20	0050749	A20A220	
229	"	Water	Co (Cobalt) - 6020 - Total	"	05/21/20	0050749	A20A220	
230	"	Water	Cr (Chromium) - 6020 - Total	"	05/21/20	0050749	A20A220	
231	"	Water	Cu (Copper) - 6020 - Total	"	05/21/20	0050749	A20A220	
232	"	Water	Fe (Iron) - 6020 - Total	"	05/21/20	0050749	A20A220	
233	"	Water	Hg (Mercury) - 6020 - Total	"	05/21/20	0050749	A20A220	
234	"	Water	K (Potassium) - 6020 - Total	"	05/21/20	0050749	A20A220	
235	"	Water	Mg (Magnesium) - 6020 - Total	"	05/21/20	0050749	A20A220	
236	"	Water	Mn (Manganese) - 6020 - Total	"	05/21/20	0050749	A20A220	
237	"	Water	Na (Sodium) - 6020 - Total	"	05/21/20	0050749	A20A220	
238	"	Water	Ni (Nickel) - 6020 - Total	"	05/21/20	0050749	A20A220	
239	"	Water	Pb (Lead) - 6020 - Total	"	05/21/20	0050749	A20A220	
240	"	Water	Sb (Antimony) - 6020 - Total	"	05/21/20	0050749	A20A220	
241	"	Water	Se (Selenium) - 6020 - Total	"	05/21/20	0050749	A20A220	
242	"	Water	Tl (Thallium) - 6020 - Total	"	05/21/20	0050749	A20A220	
243	"	Water	V (Vanadium) - 6020 - Total	"	05/21/20	0050749	A20A220	
244	"	Water	Zn (Zinc) - 6020 - Total	"	05/21/20	0050749	A20A220	
245	A0E0504-04	Water	Ag (Silver) - 6020 - Total	Anchor QEA, LLC	05/21/20	0050749	A20A220	
246	"	Water	Al (Aluminum) - 6020 - Total	"	05/21/20	0050749	A20A220	
247	"	Water	As (Arsenic) - 6020 - Total	"	05/21/20	0050749	A20A220	
248	"	Water	Ba (Barium) - 6020 - Total	"	05/21/20	0050749	A20A220	
249	"	Water	Be (Beryllium) - 6020 - Total	"	05/21/20	0050749	A20A220	
250	"	Water	Ca (Calcium) - 6020 - Total	"	05/21/20	0050749	A20A220	
251	"	Water	Cd (Cadmium) - 6020 - Total	"	05/21/20	0050749	A20A220	
252	"	Water	Co (Cobalt) - 6020 - Total	"	05/21/20	0050749	A20A220	
253	"	Water	Cr (Chromium) - 6020 - Total	"	05/21/20	0050749	A20A220	
254	"	Water	Cu (Copper) - 6020 - Total	"	05/21/20	0050749	A20A220	
255	"	Water	Fe (Iron) - 6020 - Total	"	05/21/20	0050749	A20A220	
256	"	Water	Hg (Mercury) - 6020 - Total	"	05/21/20	0050749	A20A220	
257	"	Water	K (Potassium) - 6020 - Total	"	05/21/20	0050749	A20A220	
258	"	Water	Mg (Magnesium) - 6020 - Total	"	05/21/20	0050749	A20A220	
259	"	Water	Mn (Manganese) - 6020 - Total	"	05/21/20	0050749	A20A220	
260	"	Water	Na (Sodium) - 6020 - Total	"	05/21/20	0050749	A20A220	
261	"	Water	Ni (Nickel) - 6020 - Total	"	05/21/20	0050749	A20A220	
262	"	Water	Pb (Lead) - 6020 - Total	"	05/21/20	0050749	A20A220	
263	"	Water	Sb (Antimony) - 6020 - Total	"	05/21/20	0050749	A20A220	
264	"	Water	Se (Selenium) - 6020 - Total	"	05/21/20	0050749	A20A220	
265	"	Water	Tl (Thallium) - 6020 - Total	"	05/21/20	0050749	A20A220	
266	"	Water	V (Vanadium) - 6020 - Total	"	05/21/20	0050749	A20A220	
267	"	Water	Zn (Zinc) - 6020 - Total	"	05/21/20	0050749	A20A220	
268	A0E0504-05	Water	Ag (Silver) - 6020 - Total	Anchor QEA, LLC	05/21/20	0050749	A20A220	
269	"	Water	Al (Aluminum) - 6020 - Total	"	05/21/20	0050749	A20A220	
270	"	Water	As (Arsenic) - 6020 - Total	"	05/21/20	0050749	A20A220	
271	"	Water	Ba (Barium) - 6020 - Total	"	05/21/20	0050749	A20A220	

Sequence: 0E20067 Instrument: ICPMS6

Date: **05/20/20 18:14** Calibration: **UNASSIGNED**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
272	"	Water	Be (Beryllium) - 6020 - Total	"	05/21/20	0050749	A20A220	
273	"	Water	Ca (Calcium) - 6020 - Total	"	05/21/20	0050749	A20A220	
274	"	Water	Cd (Cadmium) - 6020 - Total	"	05/21/20	0050749	A20A220	
275	"	Water	Co (Cobalt) - 6020 - Total	"	05/21/20	0050749	A20A220	
276	"	Water	Cr (Chromium) - 6020 - Total	"	05/21/20	0050749	A20A220	
277	"	Water	Cu (Copper) - 6020 - Total	"	05/21/20	0050749	A20A220	
278	"	Water	Fe (Iron) - 6020 - Total	"	05/21/20	0050749	A20A220	
279	"	Water	Hg (Mercury) - 6020 - Total	"	05/21/20	0050749	A20A220	
280	"	Water	K (Potassium) - 6020 - Total	"	05/21/20	0050749	A20A220	
281	"	Water	Mg (Magnesium) - 6020 - Total	"	05/21/20	0050749	A20A220	
282	"	Water	Mn (Manganese) - 6020 - Total	"	05/21/20	0050749	A20A220	
283	"	Water	Na (Sodium) - 6020 - Total	"	05/21/20	0050749	A20A220	
284	"	Water	Ni (Nickel) - 6020 - Total	"	05/21/20	0050749	A20A220	
285	"	Water	Pb (Lead) - 6020 - Total	"	05/21/20	0050749	A20A220	
286	"	Water	Sb (Antimony) - 6020 - Total	"	05/21/20	0050749	A20A220	
287	"	Water	Se (Selenium) - 6020 - Total	"	05/21/20	0050749	A20A220	
288	"	Water	Tl (Thallium) - 6020 - Total	"	05/21/20	0050749	A20A220	
289	"	Water	V (Vanadium) - 6020 - Total	"	05/21/20	0050749	A20A220	
290	"	Water	Zn (Zinc) - 6020 - Total	"	05/21/20	0050749	A20A220	
291	A0E0504-06	Water	Ag (Silver) - 6020 - Total	Anchor QEA, LLC	05/21/20	0050749	A20A220	
292	"	Water	Al (Aluminum) - 6020 - Total	"	05/21/20	0050749	A20A220	
293	"	Water	As (Arsenic) - 6020 - Total	"	05/21/20	0050749	A20A220	
294	"	Water	Ba (Barium) - 6020 - Total	"	05/21/20	0050749	A20A220	
295	"	Water	Be (Beryllium) - 6020 - Total	"	05/21/20	0050749	A20A220	
296	"	Water	Ca (Calcium) - 6020 - Total	"	05/21/20	0050749	A20A220	
297	"	Water	Cd (Cadmium) - 6020 - Total	"	05/21/20	0050749	A20A220	
298	"	Water	Co (Cobalt) - 6020 - Total	"	05/21/20	0050749	A20A220	
299	"	Water	Cr (Chromium) - 6020 - Total	"	05/21/20	0050749	A20A220	
300	"	Water	Cu (Copper) - 6020 - Total	"	05/21/20	0050749	A20A220	
301	"	Water	Fe (Iron) - 6020 - Total	"	05/21/20	0050749	A20A220	
302	"	Water	Hg (Mercury) - 6020 - Total	"	05/21/20	0050749	A20A220	
303	"	Water	K (Potassium) - 6020 - Total	"	05/21/20	0050749	A20A220	
304	"	Water	Mg (Magnesium) - 6020 - Total	"	05/21/20	0050749	A20A220	
305	"	Water	Mn (Manganese) - 6020 - Total	"	05/21/20	0050749	A20A220	
306	"	Water	Na (Sodium) - 6020 - Total	"	05/21/20	0050749	A20A220	
307	"	Water	Ni (Nickel) - 6020 - Total	"	05/21/20	0050749	A20A220	
308	"	Water	Pb (Lead) - 6020 - Total	"	05/21/20	0050749	A20A220	
309	"	Water	Sb (Antimony) - 6020 - Total	"	05/21/20	0050749	A20A220	
310	"	Water	Se (Selenium) - 6020 - Total	"	05/21/20	0050749	A20A220	
311	"	Water	Tl (Thallium) - 6020 - Total	"	05/21/20	0050749	A20A220	
312	"	Water	V (Vanadium) - 6020 - Total	"	05/21/20	0050749	A20A220	
313	"	Water	Zn (Zinc) - 6020 - Total	"	05/21/20	0050749	A20A220	
314	A0E0504-07	Water	Ag (Silver) - 6020 - Total	Anchor QEA, LLC	05/21/20	0050749	A20A220	
315	"	Water	Al (Aluminum) - 6020 - Total	"	05/21/20	0050749	A20A220	
316	"	Water	As (Arsenic) - 6020 - Total	"	05/21/20	0050749	A20A220	
317	"	Water	Ba (Barium) - 6020 - Total	"	05/21/20	0050749	A20A220	
318	"	Water	Be (Beryllium) - 6020 - Total	"	05/21/20	0050749	A20A220	
319	"	Water	Ca (Calcium) - 6020 - Total	"	05/21/20	0050749	A20A220	
320	"	Water	Cd (Cadmium) - 6020 - Total	"	05/21/20	0050749	A20A220	
321	"	Water	Co (Cobalt) - 6020 - Total	"	05/21/20	0050749	A20A220	
322	"	Water	Cr (Chromium) - 6020 - Total	"	05/21/20	0050749	A20A220	
323	"	Water	Cu (Copper) - 6020 - Total	"	05/21/20	0050749	A20A220	
324	"	Water	Fe (Iron) - 6020 - Total	"	05/21/20	0050749	A20A220	
325	"	Water	Hg (Mercury) - 6020 - Total	"	05/21/20	0050749	A20A220	
326	"	Water	K (Potassium) - 6020 - Total	"	05/21/20	0050749	A20A220	

Sequence: 0E20067 Instrument: ICPMS6

Date: **05/20/20 18:14** Calibration: **UNASSIGNED**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
327	"	Water	Mg (Magnesium) - 6020 - Total	"	05/21/20	0050749	A20A220	
328	"	Water	Mn (Manganese) - 6020 - Total	"	05/21/20	0050749	A20A220	
329	"	Water	Na (Sodium) - 6020 - Total	"	05/21/20	0050749	A20A220	
330	"	Water	Ni (Nickel) - 6020 - Total	"	05/21/20	0050749	A20A220	
331	"	Water	Pb (Lead) - 6020 - Total	"	05/21/20	0050749	A20A220	
332	"	Water	Sb (Antimony) - 6020 - Total	"	05/21/20	0050749	A20A220	
333	"	Water	Se (Selenium) - 6020 - Total	"	05/21/20	0050749	A20A220	
334	"	Water	Tl (Thallium) - 6020 - Total	"	05/21/20	0050749	A20A220	
335	"	Water	V (Vanadium) - 6020 - Total	"	05/21/20	0050749	A20A220	
336	"	Water	Zn (Zinc) - 6020 - Total	"	05/21/20	0050749	A20A220	
337	0E20067-CCV7	Water	QC	QC			A20A220	A20E094
338	0E20067-CCB7	Water	QC	QC			A20A220	
339	0E20067-CRLD	Water	QC	QC			A20A220	A20E188
340	0E20067-CRLE	Water	QC	QC			A20A220	A20E189
341	0E20067-CRLF	Water	QC	QC			A20A220	A20E190
342	0E20067-CRLG	Water	QC	QC			A20A220	A20E191

Data Entered By: JPB 05/21/20

Comments:

Data Reviewed By: JSJ 05/22/20

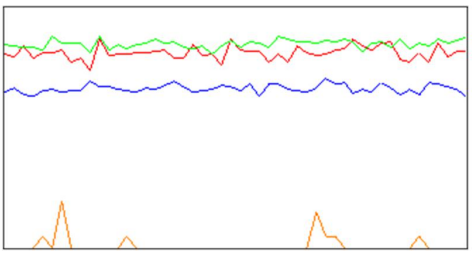
Standard Tune Check Report ICPMS6

Operator Name	ICPMS Analyst
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\0E20063.b
Acq. Date-Time	05/20/2020 14:41:34
Report Comment	0E20063 General Multi-Mode Tune Report Std ID A20E026
Instrument Name	ICPMS6 JP17412047

Daily Tune for 05/20/20. Tune Parameters for 0E20063 were also used for 0E20067 - JPB 05/21/20

[No Gas]

Sensitivity



Sampling Period [sec] 0.413

Integration Time [sec] 0.1

Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
7	1000	813	8126.20	5000.00	
89	5000	4252	42521.24	10000.00	
205	5000	3317	33173.90	10000.00	
102	20	0			

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
7	0.19	0.20 - 1.00	Fail
89	1.00	1.00 - 1.00	
205	0.78	0.50 - 1.50	
102		-	

Response ratio is a guideline only. - JPB 05/21/20

Mass	RSD%	RSD% (Required)	RSD% (Flag)
7	3.489	5.000	
89	2.098	5.000	
205	2.659	5.000	
102	309.981		

Mass	Background	Background (Required)	Background (Flag)
7	2.400	6.900	
89	0.500	4.600	
205	1.400	11.500	
102	0.300		

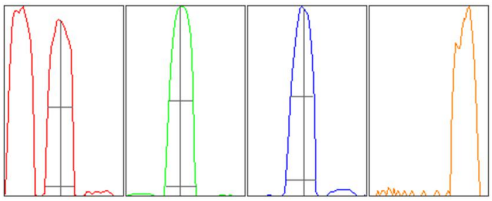
Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.542 %
Doubly Charged	69 / 138 1.161 %

Resolution/Axis

Integration Time [sec] 0.1

Standard Tune Check Report ICPMS6



Acquisition Time [sec]	30.12
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
7	834.51	6.95	6.90 - 7.10	
89	4278.36	88.90	88.90 - 89.10	
205	3294.49	204.95	204.90 - 205.10	
102	0.00	102.15	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
7	0.63	0.740	0.900	
89	0.60	0.776	0.900	
205	0.58	0.752	0.900	
102	0.18	0.175		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.97 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.85 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.7 V	Deflect	14.6 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.8 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	128	Axis Gain	0.9992	QP Bias	-3.2 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	0.8 mm		

EM

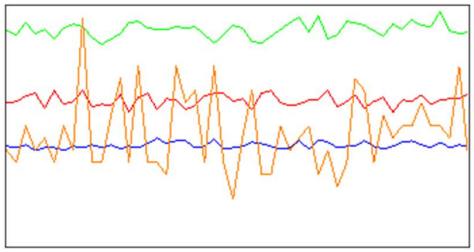
Discriminator	5.6 mV	Analog HV	2174 V	Pulse HV	1391 V

[He]

Sensitivity

Sampling Period [sec]	0.412

Standard Tune Check Report ICPMS6



Integration Time [sec] 0.1

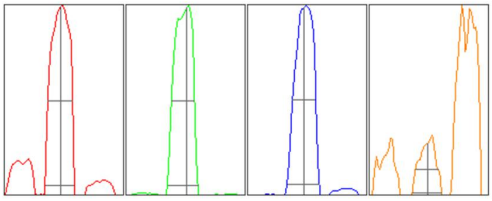
Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
59	1000	609	6091.08	1000.00	
89	1000	903	9030.08	2000.00	
205	5000	2108	21079.25	1000.00	
75	20	9			

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
59		-	
89		-	
205		-	
75		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
59	4.106	5.000	
89	3.340	5.000	
205	2.963	5.000	
75	33.510		

Mass	Background	Background (Required)	Background (Flag)
59			
89			
205			
75			

Resolution/Axis



Integration Time [sec] 0.1
Acquisition Time [sec] 29.92
Y Axis Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
59	612.65	58.95	58.90 - 59.10	
89	917.33	89.05	88.90 - 89.10	
205	2076.97	204.95	204.90 - 205.10	
75	8.75	75.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.63	0.739	0.900	
89	0.59	0.771	0.900	

Standard Tune Check Report ICPMS6

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
205	0.60	0.811	0.900	
75	0.59	0.737		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.97 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.85 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.7 V	Deflect	1.4 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.6 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	128	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.01		

Hardware Settings

Torch

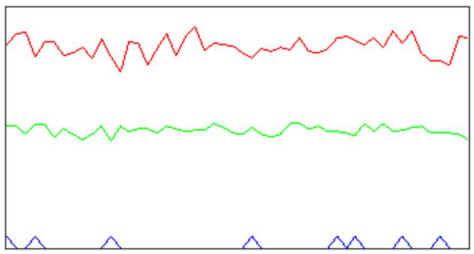
Torch H	-0.9 mm	Torch V	0.8 mm

EM

Discriminator	5.6 mV	Analog HV	2174 V	Pulse HV	1391 V

[HEHe]

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
59	500	419	4193.81	1000.00	
89	2000	981	9807.79	2000.00	
78	20	0			

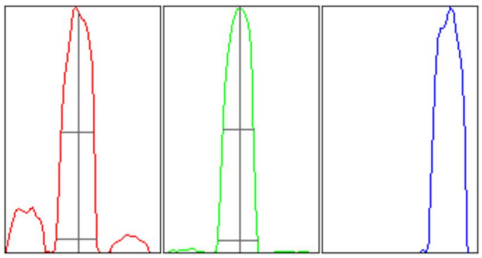
Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
59		-	
89		-	
78		-	

Standard Tune Check Report ICPMS6

Mass	RSD%	RSD% (Required)	RSD% (Flag)
59	4.944	5.000	
89	3.778	5.000	
78	231.455		

Mass	Background	Background (Required)	Background (Flag)
59			
89			
78			

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.14
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
59	421.83	58.95	58.90 - 59.10	
89	966.36	89.00	88.90 - 89.10	
78			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.64	0.783	0.900	
89	0.60	0.773	0.900	
78				

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.97 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.85 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.7 V	Deflect	-75.0 V
Extract 2	-190.0 V	Cell Entrance	-130 V	Plate Bias	-150 V
Omega Bias	-110 V	Cell Exit	-150 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.9 V
He Flow	9.5 mL/min	OctP Bias	-100.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	128	Axis Gain	0.9992	QP Bias	-96.1 V
Mass Offset	126	Axis Offset	0.01		

Hardware Settings

Torch

Standard Tune Check Report ICPMS6

Torch H	-0.9 mm	Torch V	0.8 mm		

EM

Discriminator	5.6 mV	Analog HV	2174 V	Pulse HV	1391 V

EPA Tune Check Report ICPMS6

Operator Name ICPMS Analyst

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\0E20063.b

Acq. Date-Time 05/20/2020 14:52:04

Report Comment 0E20063 EPA Multi-Mode Tune Report Std ID A20E026

Instrument Name ICPMS6 JP17412047

Daily Tune for 05/20/20. Tune Parameters for 0E20063 were also used for 0E20067 - JPB 05/21/20

[No Gas]

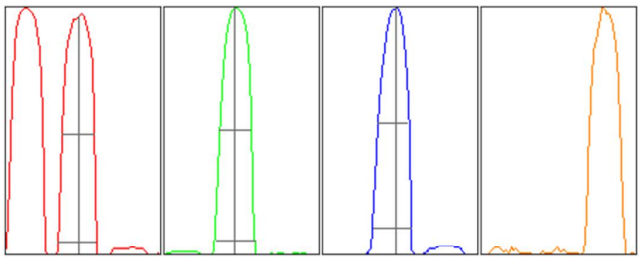
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Req) [cps/ug/l]	RSD%	Resp (Flag)	RSD% (Req)	RSD% (Flag)
7	1.00	502	5022.34	5000.00	0.658		5.000	
89	1.00	2528	25276.25	10000.00	1.003		5.000	
205	1.00	1910	19104.45	10000.00	0.591		5.000	
102		0	2.20		79.708			

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
7	501	502	500	508	500
89	2495	2515	2529	2535	2564
205	1895	1914	1918	1902	1923
102	1	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Ht	Axis	Axis (Req)	Axis (Flag)	W-50%	W-5%	W-X% (Req)	W-5% (Flag)
7	821.89	6.95	6.90 - 7.10		0.63	0.740	0.900	
89	4340.42	88.90	88.90 - 89.10		0.60	0.776	0.900	
205	3358.04	204.95	204.90 - 205.10		0.59	0.755	0.900	
102			-					

Integration Time [sec] 0.1

Acquisition Time [sec] 135.3

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.97 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min

EPA Tune Check Report ICPMS6

RF Matching	1.85 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.7 V	Deflect	14.6 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.8 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	128	Axis Gain	0.9992	QP Bias	-3.2 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	0.8 mm

EM

Discriminator	5.6 mV	Analog HV	2174 V	Pulse HV	1391 V

[He]

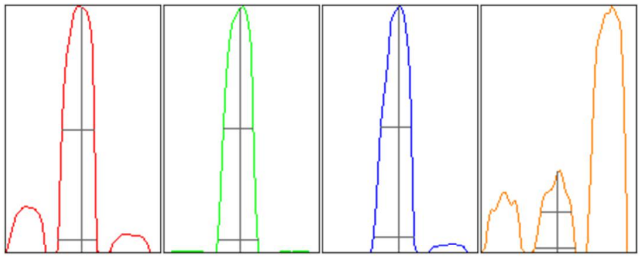
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Req) [cps/ug/l]	RSD%	Resp (Flag)	RSD% (Req)	RSD% (Flag)
59	1.00	374	3743.99	1000.00	1.252		5.000	
89	1.00	521	5208.79	2000.00	1.545		5.000	
205	1.00	1207	12074.28	1000.00	0.588		5.000	
75		6	56.30		4.194			

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	377	381	370	372	371
89	521	530	526	517	510
205	1200	1213	1211	1214	1200
75	6	6	6	6	5

Integration Time [sec] 0.1

Resolution/Axis



EPA Tune Check Report ICPMS6

Mass	Peak Ht	Axis	Axis (Req)	Axis (Flag)	W-50%	W-5%	W-X% (Req)	W-5% (Flag)
59	614.84	59.00	58.90 - 59.10		0.63	0.741	0.900	
89	921.97	89.00	88.90 - 89.10		0.59	0.771	0.900	
205	2145.59	205.00	204.90 - 205.10		0.60	0.781	0.900	
75	10.60	75.00	-		0.60	0.783		

Integration Time [sec]	0.1
Acquisition Time [sec]	134.8
Y Axis	Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.97 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.85 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.7 V	Deflect	1.4 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.6 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	128	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	0.8 mm

EM

Discriminator	5.6 mV	Analog HV	2174 V	Pulse HV	1391 V

[HEHe]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Req) [cps/ug/l]	RSD%	Resp (Flag)	RSD% (Req)	RSD% (Flag)
59	1.00	255	2553.27	1000.00	1.236		5.000	
89	1.00	563	5625.82	2000.00	0.856		5.000	
78		0	2.30		24.786			

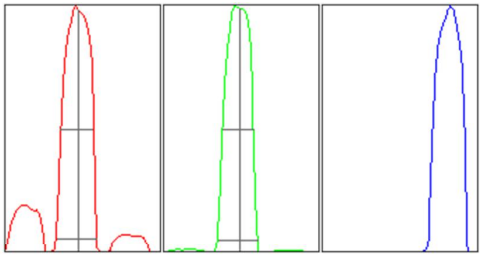
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	256	255	260	252	253
89	562	562	565	568	555

EPA Tune Check Report ICPMS6

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
78	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Ht	Axis	Axis (Req)	Axis (Flag)	W-50%	W-5%	W-X% (Req)	W-5% (Flag)
59	413.32	58.95	58.90 - 59.10		0.64	0.782	0.900	
89	961.84	89.00	88.90 - 89.10		0.60	0.777	0.900	
78			-					

Integration Time [sec] 0.1
Acquisition Time [sec] 100.35
Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.97 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.85 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.7 V	Deflect	-75.0 V
Extract 2	-190.0 V	Cell Entrance	-130 V	Plate Bias	-150 V
Omega Bias	-110 V	Cell Exit	-150 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.9 V
He Flow	9.5 mL/min	OctP Bias	-100.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	128	Axis Gain	0.9992	QP Bias	-96.1 V
Mass Offset	126	Axis Offset	0.01		

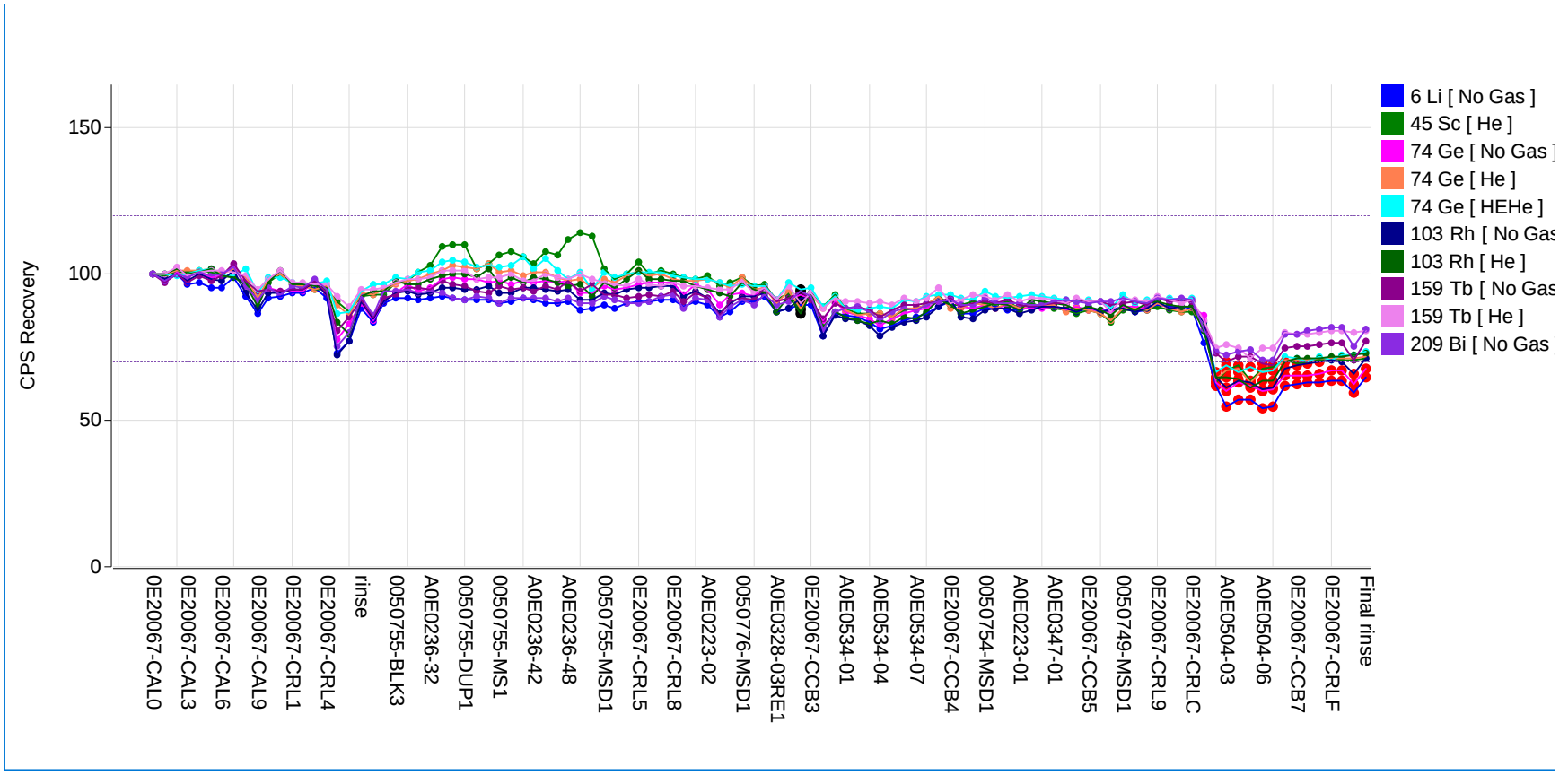
Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	0.8 mm		

EM

Discriminator	5.6 mV	Analog HV	2174 V	Pulse HV	1391 V


CPS Recovery
150
100
50
0
6 Li [No Gas]
45 Sc [He]
74 Ge [No Gas]
74 Ge [He]
74 Ge [HEHe]
103 Rh [No Gas
103 Rh [He]
159 Tb [No Gas
159 Tb [He]
209 Bi [No Gas
0E20067-CAL0
0E20067-CAL3
0E20067-CAL6
0E20067-CAL9
0E20067-CRL1
0E20067-CRL4
rinse
0050755-BLK3
A0E0236-32
0050755-DUP1
0050755-MS1
A0E0236-42
A0E0236-48
0050755-MSD1
0E20067-CRL5
0E20067-CRL8
A0E0223-02
0050776-MSD1
A0E0328-03RE1
0E20067-CCB3
A0E0534-01
A0E0534-04
A0E0534-07
0E20067-CCB4
0050754-MSD1
A0E0223-01
A0E0347-01
0E20067-CCB5
0050749-MSD1
0E20067-CRL9
0E20067-CRLC
A0E0504-03
A0E0504-06
0E20067-CCB7
0E20067-CRLF
Final rinse

P/A Factor Tuning Report

```
=================== Current Sample ====================
 Sample Name:    0E20067-ICV1
   Data File:    014_ICV.d
    Acquired:    05/20/2020 21:10:57

========= Detector Parameters and P/A Factors =========
  Discriminator:    5.6 mV
       AnalogHV:   2174 V
        PulseHV:   1391 V

       Acquired: 05/20/2020 16:27:42
```

Mass[u]	Element	P/A Factor
6	Li	0.102038
23	Na	0.112531
24	Mg	0.117568
27	Al	0.121697
39	K	0.123868
44	Ca	0.124712
45	Sc	0.125098
47	Ti	0.126428
51	V	0.129178
52	Cr	0.132921
55	Mn	0.135056
56	Fe	0.136960
59	Co	0.140937
60	Ni	0.141647
65	Cu	0.143037
66	Zn	0.145298
74	Ge	0.143028
75	As	0.139865
95	Mo	0.139483
103	Rh	0.146677
107	Ag	0.150205
109	Ag	0.149827
111	Cd	0.150100
123	Sb	0.147844
138	Ba	0.151530
159	Tb	0.151736
186	W	0.149677
205	Tl	0.157277
206	[Pb]	0.160385
207	[Pb]	0.161059
208	Pb	0.162464
209	Bi	0.158589
7	[Li]	Signal too low
9	Be	Signal too low
78	Se	Signal too low

106	[Cd]	Signal too low
108	[Cd]	Signal too low
201	Hg	Signal too low

=== Independent Detector Parameters and P/A Factors ===

Tune Mode Name: No Gas
Discriminator: 5.6 mV
AnalogHV: 2174 V
PulseHV: 1391 V

Acquired: 05/20/2020 21:01:27

Mass[u]	Element	P/A Factor
65	Cu	0.137307
74	Ge	0.136049
103	Rh	0.137845
109	Ag	0.144400
111	Cd	0.140994
123	Sb	0.141128
159	Tb	0.141654
186	W	0.141982
205	Tl	0.148900
206	[Pb]	0.148255
207	[Pb]	0.148974
208	Pb	0.147042
209	Bi	0.148289
6	Li	Signal too low
7	[Li]	Signal too low
9	Be	Signal too low
106	[Cd]	Signal too low
108	[Cd]	Signal too low
201	Hg	Signal too low

Tune Mode Name: He
Discriminator: 5.6 mV
AnalogHV: 2174 V
PulseHV: 1391 V

Acquired: 05/20/2020 21:07:13

Mass[u]	Element	P/A Factor
23	Na	0.112207
24	Mg	0.115845
27	Al	0.117821
39	K	0.121479
44	Ca	0.122281
51	V	0.124418
52	Cr	0.127400
55	Mn	0.127974

56	Fe	0.130581
59	Co	0.132116
60	Ni	0.133260
65	Cu	0.135751
66	Zn	0.134981
111	Cd	0.138512
138	Ba	0.138482
159	Tb	0.138672
45	Sc	Signal too low
47	Ti	Signal too low
74	Ge	Signal too low
75	As	Signal too low
95	Mo	Signal too low
103	Rh	Signal too low

Tune Mode Name: HEHe
Discriminator: 5.6 mV
AnalogHV: 2174 V
PulseHV: 1391 V

Acquired: 02/03/2020 15:16:26

Mass[u] Element P/A Factor
(P/A factors could not be measured.)

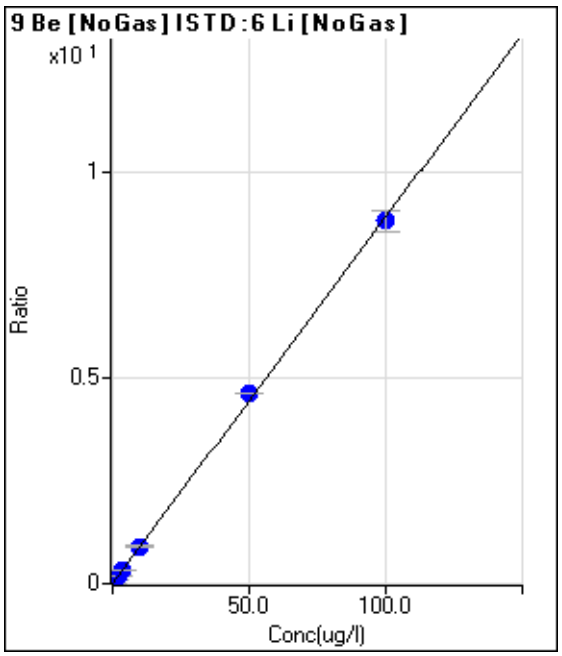
Created: 05/21/2020 17:34:49

Calibration for 014_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\0E20067_6020.b\
Analysis File: 0E20067_6020.batch.bin
DA Date-Time: 05/21/2020 13:38:42
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	0E20067-CAL0	05/20/2020 20:21:37
2	005CALS.d	0E20067-CAL1	05/20/2020 20:26:38
3	006CALS.d	0E20067-CAL2	05/20/2020 20:31:38
4	007CALS.d	0E20067-CAL3	05/20/2020 20:36:38
5	008CALS.d	0E20067-CAL4	05/20/2020 20:41:38
6	009CALS.d	0E20067-CAL5	05/20/2020 20:46:38
7	010CALS.d	0E20067-CAL6	05/20/2020 20:51:37
8	011CALS.d	0E20067-CAL7	05/20/2020 20:56:35
9	012CALS.d	0E20067-CAL8	05/20/2020 21:01:24
10	013CALS.d	0E20067-CAL9	05/20/2020 21:06:09

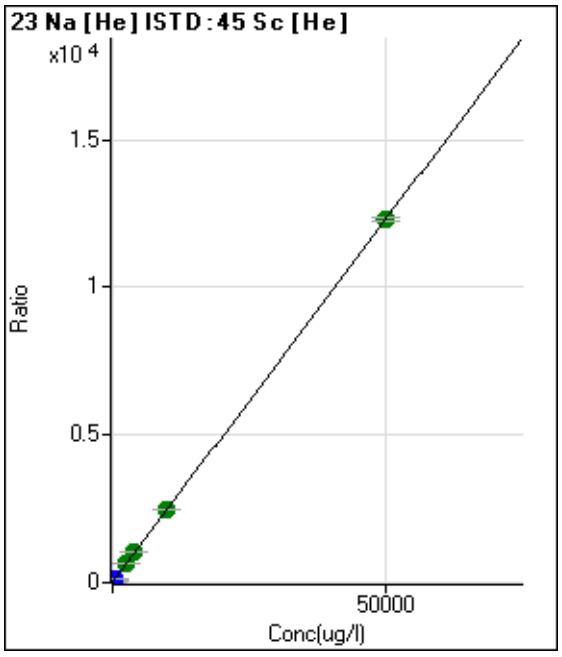
Mg top point was dropped.
Mg LDR = 10,000 ppb
- JPB 05/21/20



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22	0.001	P	13.6
2	☐	0.180	0.179	474	0.017	P	5.5
3	☐	0.900	0.879	2304	0.079	P	2.6
4	☐	1.800	1.879	4723	0.168	P	2.1
5	☐	3.600	3.657	9227	0.326	P	1.1
6	☐	10.000	10.208	25304	0.908	P	0.6
7	☐	50.000	51.868	128236	4.608	P	0.3
8	☐	100.000	99.042	253639	8.799	P	5.7
9	☐			104	0.004	P	2.9
10	☐			51	0.002	P	18.9

y = 0.0888 * x + 7.6582E-004
R = 0.9998
DL = 0.003522
BEC = 0.008621

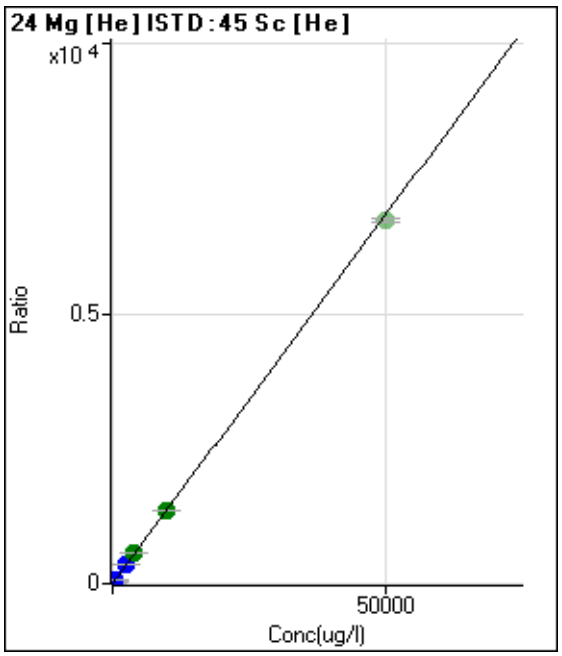
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37149	16.155	P	1.4
2	☐			41761	18.192	P	0.8
3	☐	45.000	42.633	61801	26.620	P	0.7
4	☐	90.000	88.379	87902	37.849	P	1.0
5	☐	180.000	181.634	141244	60.739	P	1.3
6	☐	400.000	413.979	273435	117.772	P	0.3
7	☐	2500.000	2595.982	1496206	653.376	A	0.2
8	☐	4000.000	4147.137	2352898	1,034.130	A	2.1
9	☐	10000.000	10024.629	5541634	2,476.845	A	0.4
10	☐	50000.000	49978.391	26010206	12,284.074	A	0.9

y = 0.2455 * x + 16.1548
R = 1.0000
DL = 2.79
BEC = 65.81

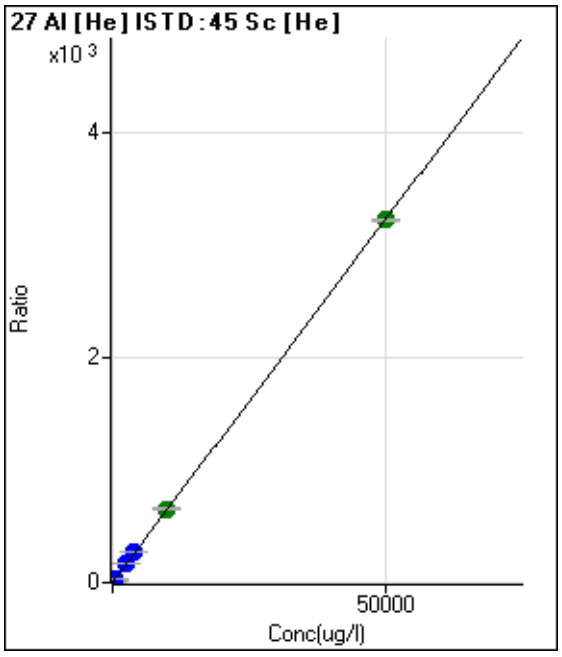
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	173	0.075	P	3.0
2	☐			3274	1.426	P	7.1
3	☐	45.000	46.041	14774	6.363	P	2.6
4	☐	90.000	93.192	29736	12.803	P	1.3
5	☐	180.000	184.845	58883	25.321	P	1.0
6	☐	400.000	413.593	131322	56.563	P	0.8
7	☐	2500.000	2545.285	796200	347.704	P	0.8
8	☐	4000.000	4118.822	1280095	562.614	A	2.0
9	☐	10000.000	9940.486	3037756	1,357.722	A	1.4
10	☑	50000.000		14230233	6,721.094	A	1.2

y = 0.1366 * x + 0.0753
R = 0.9999
DL = 0.04957
BEC = 0.5516

Weight: <None>
Min Conc: <None>

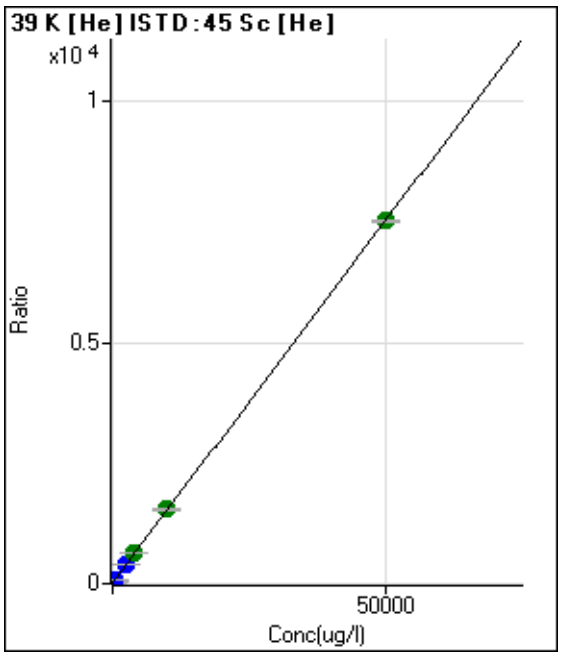


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32	0.014	P	39.2
2	☐			1553	0.677	P	12.7
3	☐	45.000	46.879	7067	3.044	P	4.2
4	☐	90.000	91.843	13818	5.950	P	3.1
5	☐	180.000	190.815	28713	12.347	P	0.8
6	☐	400.000	422.315	63406	27.310	P	0.4
7	☐	2500.000	2589.549	383289	167.387	P	1.3
8	☐	4000.000	4207.124	618721	271.937	P	2.2
9	☐	10000.000	10157.915	1468895	656.561	A	2.0
10	☐	50000.000	49947.147	6835426	3,228.303	A	0.8

y = 0.0646 * x + 0.0137
R = 1.0000
DL = 0.2502
BEC = 0.2126

Weight: <None>
Min Conc: <None>

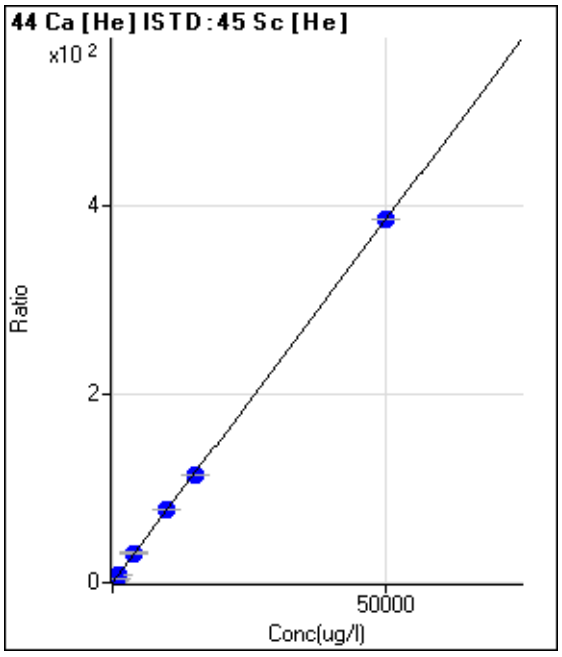
Calibration for 014_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39966	17.382	P	2.4
2	☐			43471	18.937	P	0.4
3	☐	45.000	46.114	56449	24.314	P	0.5
4	☐	90.000	92.542	72684	31.294	P	1.2
5	☐	180.000	185.121	105131	45.211	P	1.9
6	☐	400.000	422.289	187749	80.865	P	0.1
7	☐	2500.000	2572.610	925380	404.125	P	1.2
8	☐	4000.000	4127.880	1451478	637.930	A	1.8
9	☐	10000.000	10110.299	3439491	1,537.273	A	0.5
10	☐	50000.000	49963.877	15940719	7,528.500	A	0.4

y = 0.1503 * x + 17.3816
R = 1.0000
DL = 8.475
BEC = 115.6

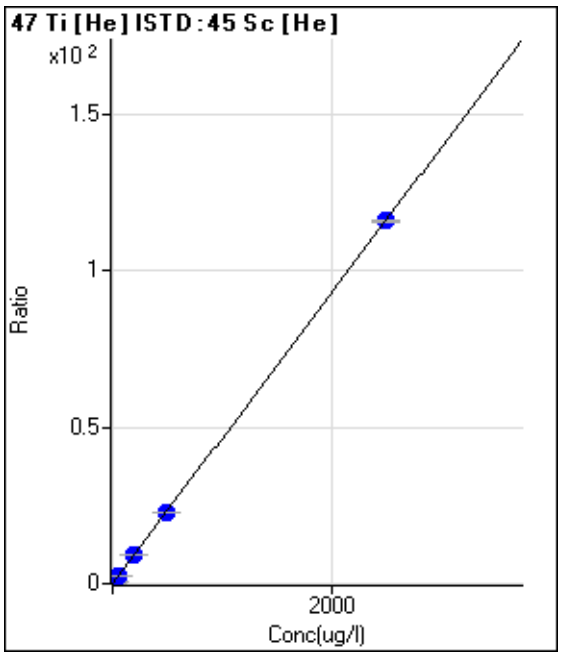
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70	0.030	P	39.3
2	☐			1098	0.478	P	8.0
3	☐	270.000	268.898	4879	2.101	P	2.7
4	☐	540.000	550.534	9917	4.270	P	2.1
5	☐	1080.000	1075.307	19329	8.312	P	1.4
6	☐	400.000	415.521	7500	3.231	P	1.9
7	☐	15000.000	14885.559	262599	114.674	P	1.1
8	☐	4000.000	4093.578	71801	31.558	P	2.1
9	☐	10000.000	10039.859	173083	77.354	P	1.2
10	☐	50000.000	50018.744	815735	385.257	P	0.1

y = 0.0077 * x + 0.0304
R = 1.0000
DL = 4.645
BEC = 3.943

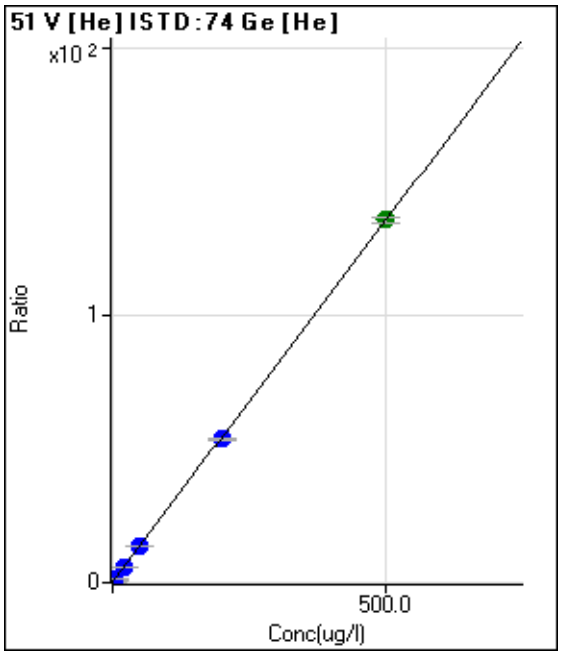
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0	0.000	P	
2	☐			16	0.007	P	54.2
3	☐			116	0.050	P	11.8
4	☐	1.800	1.939	209	0.090	P	5.0
5	☐	3.600	3.835	413	0.178	P	16.7
6	☐	20.000	19.286	2077	0.894	P	5.5
7	☐	50.000	50.408	5352	2.337	P	2.0
8	☐	200.000	200.374	21139	9.291	P	2.9
9	☐	500.000	493.263	51175	22.873	P	1.2
10	☐	2500.000	2501.315	245586	115.987	P	0.3

y = 0.0464 * x + 0.0000E+000
R = 1.0000
DL = 0
BEC = 0

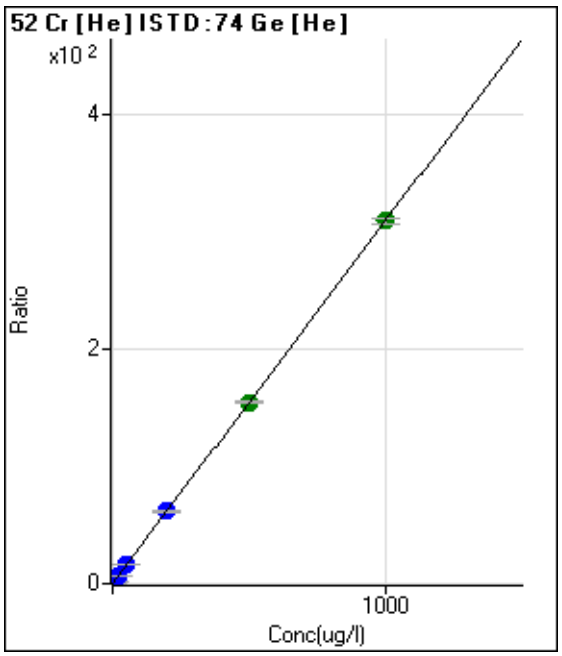
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3242	0.289	P	3.8
2	☐			3783	0.337	P	3.6
3	☐	0.900	0.917	6118	0.537	P	2.8
4	☐	1.800	1.817	8856	0.780	P	2.2
5	☐	3.600	3.718	14717	1.295	P	0.9
6	☐	20.000	20.311	66309	5.783	P	1.4
7	☐	50.000	50.633	157261	13.986	P	0.7
8	☐	200.000	197.248	613068	53.649	P	1.6
9	☐	500.000	501.024	1506661	135.828	A	1.7
10	☐			1302	0.126	P	6.5

y = 0.2705 * x + 0.2888
R = 1.0000
DL = 0.1207
BEC = 1.067

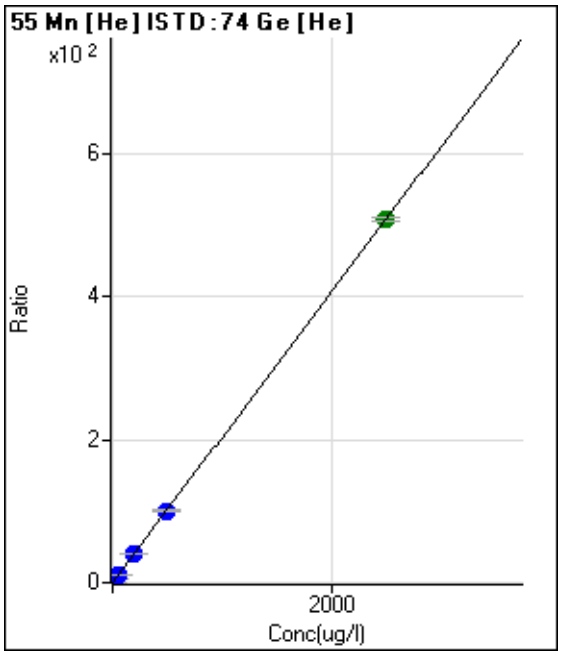
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	341	0.030	P	12.4
2	☐			1037	0.092	P	7.5
3	☐	0.900	0.936	3651	0.320	P	3.7
4	☐	1.800	1.833	6786	0.598	P	1.8
5	☐	3.600	3.720	13439	1.182	P	1.3
6	☐	20.000	20.626	73566	6.417	P	1.3
7	☐	50.000	50.967	177787	15.811	P	0.3
8	☐	200.000	199.450	706061	61.786	P	1.4
9	☐	500.000	500.594	1719670	155.029	A	0.9
10	☐	1000.000	999.752	3203617	309.583	A	1.8

y = 0.3096 * x + 0.0304
R = 1.0000
DL = 0.03639
BEC = 0.09812

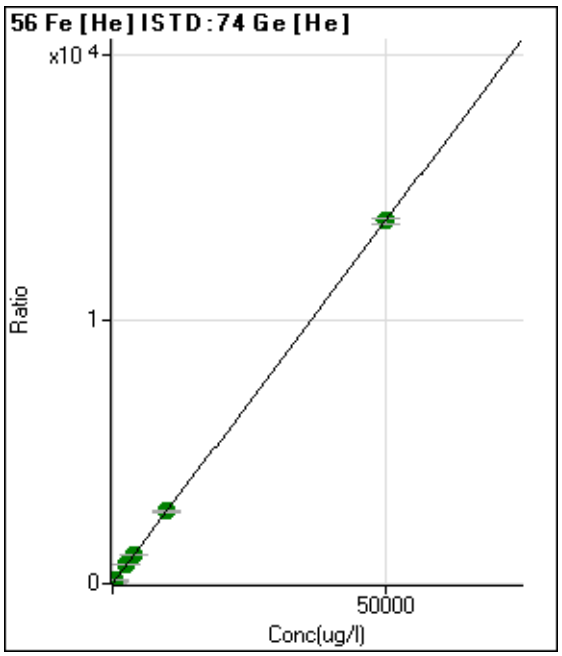
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	107	0.010	P	20.5
2	☐			531	0.047	P	8.5
3	☐	0.900	0.936	2274	0.199	P	1.4
4	☐	1.800	1.855	4383	0.386	P	1.9
5	☐	3.600	3.693	8628	0.759	P	4.5
6	☐	20.000	20.359	47506	4.144	P	0.9
7	☐	50.000	50.903	116332	10.346	P	0.3
8	☐	200.000	200.478	465331	40.719	P	1.0
9	☐	500.000	495.656	1116545	100.657	P	1.2
10	☐	2500.000	2500.809	5255170	507.824	A	1.2

y = 0.2031 * x + 0.0095
R = 1.0000
DL = 0.02884
BEC = 0.0468

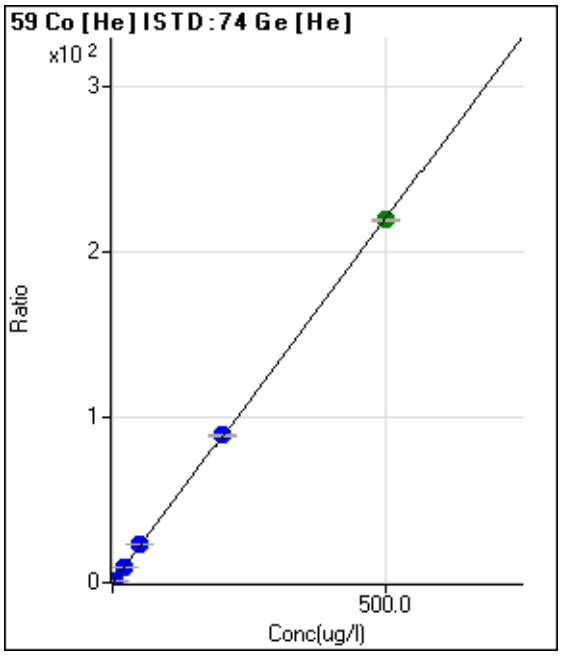
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3861	0.344	P	5.4
2	☐	9.000	9.758	33929	3.023	P	1.0
3	☐	45.000	46.075	148072	12.992	P	0.4
4	☐	90.000	91.964	290449	25.589	P	0.2
5	☐	180.000	185.931	584041	51.384	P	0.3
6	☐	400.000	415.755	1312417	114.472	A	2.0
7	☐	2500.000	2523.095	7791791	692.954	A	0.4
8	☐	4000.000	4012.660	12591660	1,101.852	A	1.3
9	☐	10000.000	9950.672	30303666	2,731.886	A	0.8
10	☐	50000.000	50007.546	142060402	13,727.829	A	1.3

y = 0.2745 * x + 0.3440
R = 1.0000
DL = 0.2012
BEC = 1.253

Weight: <None>
Min Conc: <None>

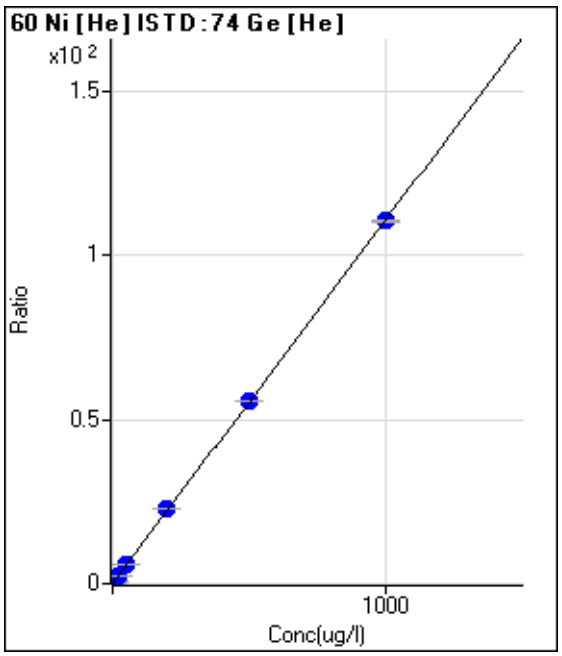


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32	0.003	P	36.4
2	☐			1021	0.091	P	11.1
3	☐	0.900	0.913	4604	0.404	P	4.3
4	☐	1.800	1.881	9410	0.829	P	0.7
5	☐	3.600	3.845	19223	1.691	P	1.4
6	☐	20.000	20.995	105737	9.223	P	1.0
7	☐	50.000	52.073	257159	22.870	P	0.6
8	☐	200.000	202.876	1018175	89.094	P	1.0
9	☐	500.000	498.600	2428865	218.960	A	0.6
10	☐			950	0.092	P	2.1

y = 0.4391 * x + 0.0029
R = 1.0000
DL = 0.007143
BEC = 0.006537

Weight: <None>
Min Conc: <None>

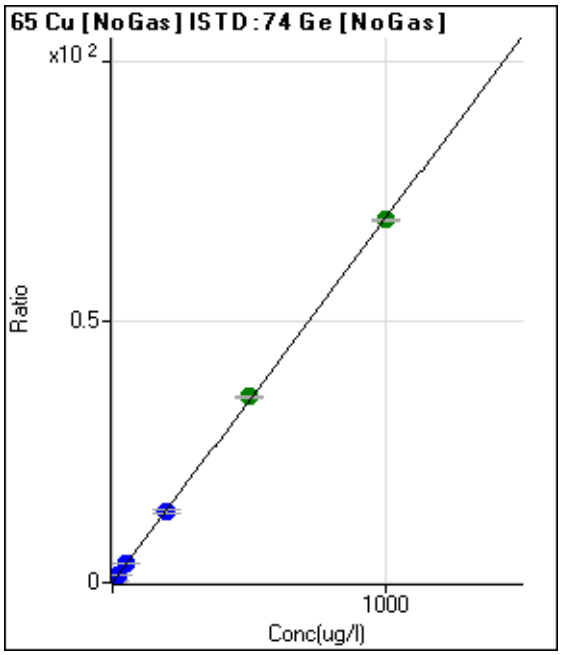
Calibration for 014_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82	0.007	P	13.9
2	☐			347	0.031	P	8.8
3	☐	0.900	0.883	1196	0.105	P	5.6
4	☐	1.800	1.872	2432	0.214	P	3.9
5	☐	3.600	3.823	4888	0.430	P	2.3
6	☐	20.000	21.203	26959	2.352	P	1.6
7	☐	50.000	52.392	65214	5.800	P	0.4
8	☐	200.000	206.176	260561	22.802	P	2.1
9	☐	500.000	501.315	614888	55.432	P	0.4
10	☐	1000.000	997.963	1141902	110.341	P	0.8

y = 0.1106 * x + 0.0073
R = 1.0000
DL = 0.02759
BEC = 0.06624

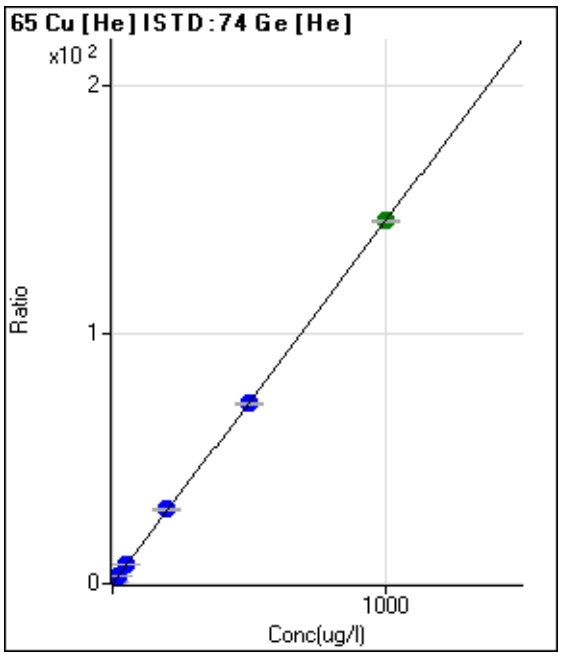
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	432	0.007	P	8.6
2	☐			1421	0.023	P	6.0
3	☐	0.900	0.926	4457	0.072	P	4.6
4	☐	1.800	1.930	8651	0.142	P	2.9
5	☐	3.600	3.850	17169	0.276	P	1.5
6	☐	20.000	21.555	92552	1.511	P	1.8
7	☐	50.000	51.882	222893	3.627	P	0.6
8	☐	200.000	195.683	869811	13.662	P	5.8
9	☐	500.000	509.565	2113473	35.565	A	0.4
10	☐	1000.000	995.954	3931909	69.505	A	0.9

y = 0.0698 * x + 0.0070
R = 0.9999
DL = 0.02585
BEC = 0.1001

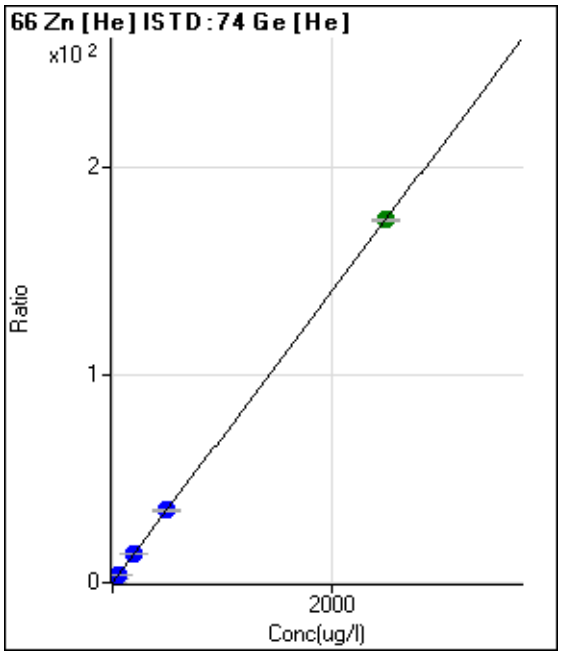
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111	0.010	P	19.6
2	☐			446	0.040	P	4.8
3	☐	0.900	0.960	1705	0.150	P	1.8
4	☐	1.800	1.962	3354	0.296	P	4.3
5	☐	3.600	3.969	6679	0.588	P	1.7
6	☐	20.000	21.730	36370	3.173	P	2.2
7	☐	50.000	52.352	85786	7.629	P	0.8
8	☐	200.000	204.236	339782	29.735	P	2.1
9	☐	500.000	496.656	801937	72.295	P	0.8
10	☐	1000.000	1000.671	1507306	145.651	A	0.7

y = 0.1455 * x + 0.0099
R = 1.0000
DL = 0.04007
BEC = 0.06802

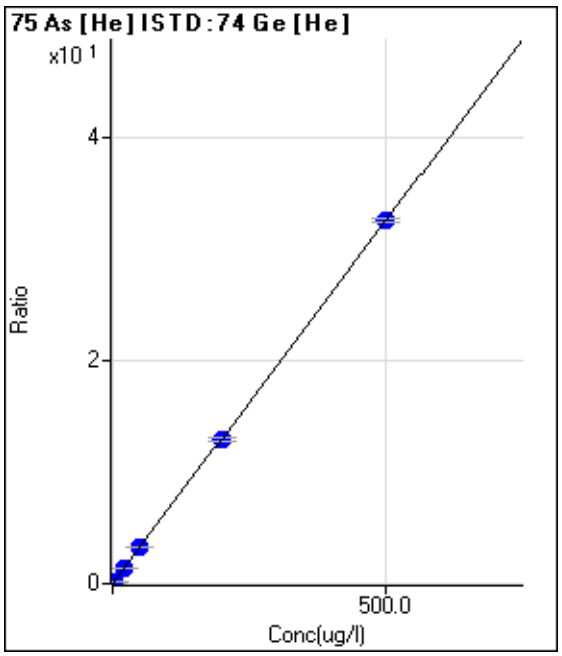
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47	0.004	P	37.7
2	☐			236	0.021	P	28.1
3	☐			778	0.068	P	3.9
4	☐	1.800	1.857	1522	0.134	P	3.5
5	☐	3.600	3.685	2979	0.262	P	3.6
6	☐	20.000	20.441	16450	1.435	P	1.3
7	☐	50.000	51.687	40718	3.622	P	2.1
8	☐	200.000	200.829	160675	14.060	P	1.3
9	☐	500.000	497.438	386235	34.819	P	1.3
10	☐	2500.000	2500.409	1811136	175.006	A	0.3

y = 0.0700 * x + 0.0042
R = 1.0000
DL = 0.06717
BEC = 0.05938

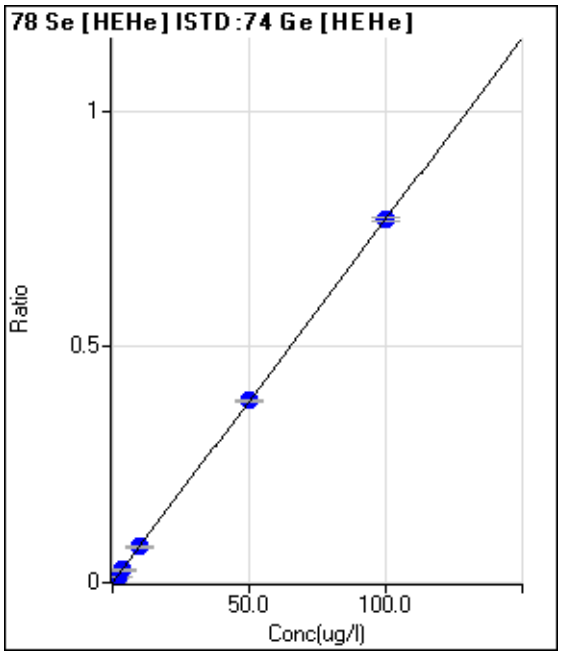
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	124	0.011	P	7.7
2	☐			284	0.025	P	7.8
3	☐	0.900	0.911	801	0.070	P	0.4
4	☐	1.800	1.872	1508	0.133	P	1.4
5	☐	3.600	3.603	2790	0.245	P	0.7
6	☐	20.000	20.048	15080	1.315	P	0.7
7	☐	50.000	50.901	37360	3.323	P	0.9
8	☐	200.000	198.621	147795	12.933	P	1.6
9	☐	500.000	500.459	361295	32.571	P	1.1
10	☐			137	0.013	P	5.2

y = 0.0651 * x + 0.0110
R = 1.0000
DL = 0.03926
BEC = 0.1696

Weight: <None>
Min Conc: <None>

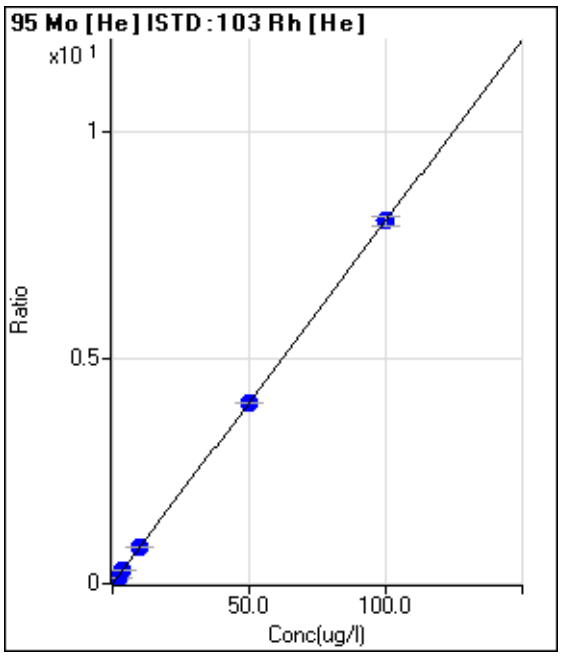


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1	0.000	P	48.6
2	☐			15	0.002	P	2.7
3	☐	0.900	0.930	72	0.007	P	2.1
4	☐	1.800	1.787	137	0.014	P	1.7
5	☐	3.600	3.437	266	0.027	P	6.8
6	☐	10.000	9.880	761	0.076	P	2.6
7	☐	50.000	50.213	3786	0.386	P	0.9
8	☐	100.000	99.911	7544	0.769	P	0.9
9	☐			5	0.000	P	4.5
10	☐			8	0.001	P	17.9

y = 0.0077 * x + 1.4762E-004
R = 1.0000
DL = 0.028
BEC = 0.01919

Weight: <None>
Min Conc: <None>

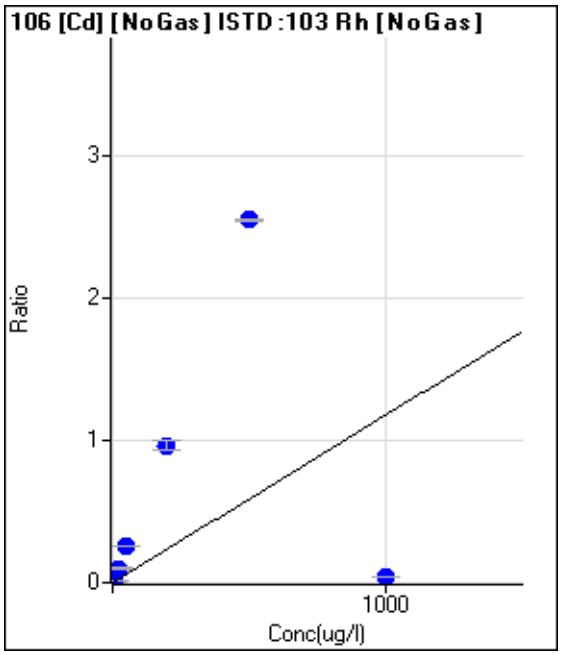
Calibration for 014_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8	0.000	P	23.9
2	☐			430	0.014	P	3.5
3	☐	0.900	0.888	2165	0.072	P	3.1
4	☐	1.800	1.800	4320	0.145	P	2.1
5	☐	3.600	3.575	8603	0.287	P	5.2
6	☐	10.000	9.937	24124	0.797	P	0.2
7	☐	50.000	49.867	118280	4.001	P	0.5
8	☐	100.000	100.074	235668	8.029	P	2.6
9	☐			216	0.008	P	13.2
10	☐			251	0.009	P	12.1

y = 0.0802 * x + 2.6152E-004
R = 1.0000
DL = 0.002337
BEC = 0.00326

Weight: <None>
Min Conc: <None>

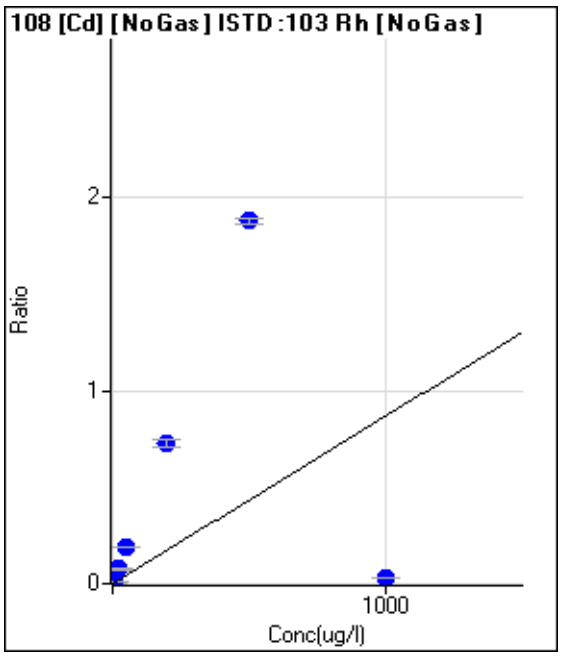


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1	0.000	P	173.2
2	☐	0.180	0.708	51	0.001	P	17.1
3	☐	0.900	3.873	280	0.005	P	19.5
4	☐	1.800	7.650	539	0.009	P	7.8
5	☐	3.600	16.190	1166	0.019	P	3.9
6	☐	20.000	85.382	6029	0.100	P	1.7
7	☐	50.000	216.199	15193	0.254	P	1.4
8	☐	200.000	820.127	59441	0.964	P	5.9
9	☐	500.000	2164.650	145634	2.545	P	0.8
10	☐	1000.000	33.973	2151	0.040	P	5.6

y = 0.0012 * x + 1.8829E-005
R = 0.3408
DL = 0.08321
BEC = 0.01601

Weight: <None>
Min Conc: <None>

106 and 108 are in batch to monitor possible Cd 111 interference. 1000 point is no longer in Cal 9. The CPS from these points will still work for the non-reported Cd with correction equation but any Quantitated numbers for 106 or 108 should be ignored this sequence - JPB 05/21/20

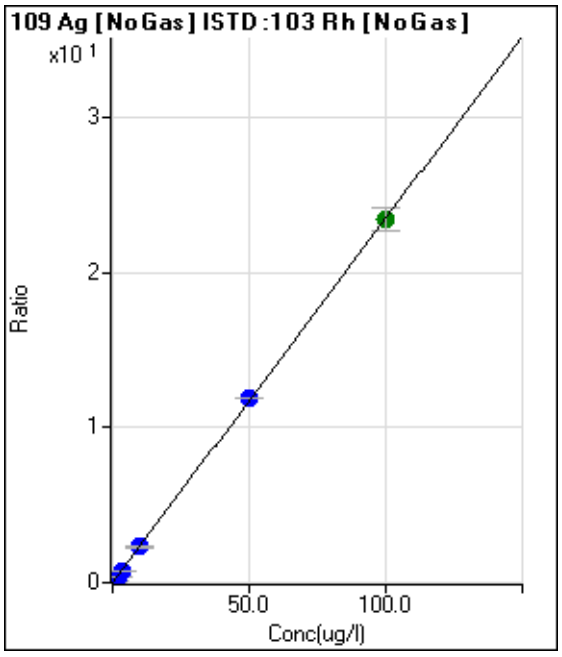


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2	0.000	P	86.8
2	☐	0.180	0.790	43	0.001	P	28.2
3	☐	0.900	3.969	213	0.003	P	10.1
4	☐	1.800	7.948	414	0.007	P	7.4
5	☐	3.600	15.275	813	0.013	P	2.0
6	☐	20.000	86.306	4500	0.075	P	1.8
7	☐	50.000	222.298	11532	0.193	P	1.1
8	☐	200.000	834.803	44674	0.725	P	5.2
9	☐	500.000	2164.337	107477	1.878	P	1.4
10	☐	1000.000	30.874	1445	0.027	P	1.8

y = 8.6790E-004 * x + 3.5750E-005
R = 0.3387
DL = 0.1073
BEC = 0.04119

Weight: <None>
Min Conc: <None>

106 and 108 are in batch to monitor possible Cd 111 interference. 1000 point is no longer in Cal 9. The CPS from these points will still work for the non-reported Cd with correction equation but any Quantitated numbers for 106 or 108 should be ignored this sequence - JPB 05/21/20

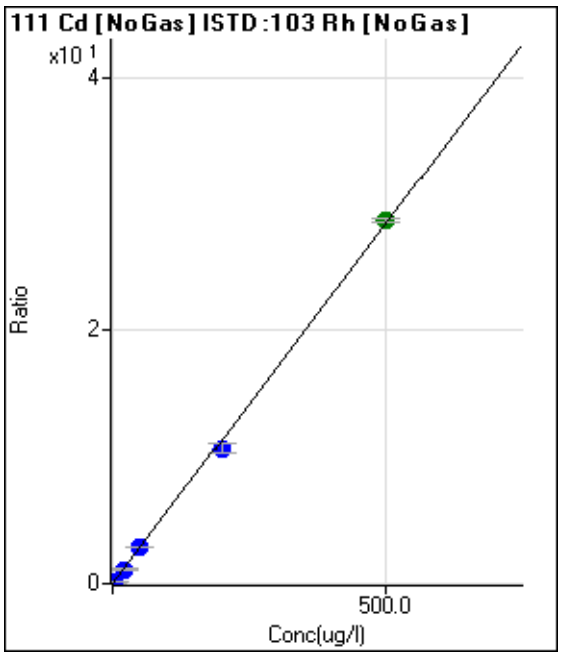


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39	0.001	P	18.0
2	☐	0.180	0.116	1673	0.028	P	5.1
3	☐	0.900	0.671	9700	0.158	P	4.3
4	☐	1.800	1.551	21793	0.365	P	3.0
5	☐	3.600	3.303	47419	0.776	P	4.6
6	☐	10.000	9.850	138857	2.313	P	2.5
7	☐	50.000	50.707	711339	11.903	P	0.8
8	☐	100.000	99.679	1442064	23.398	A	6.2
9	☐			2621	0.046	P	16.9
10	☐			570	0.011	P	3.0

y = 0.2347 * x + 6.3387E-004
R = 1.0000
DL = 0.001461
BEC = 0.0027

Weight: <None>
Min Conc: <None>

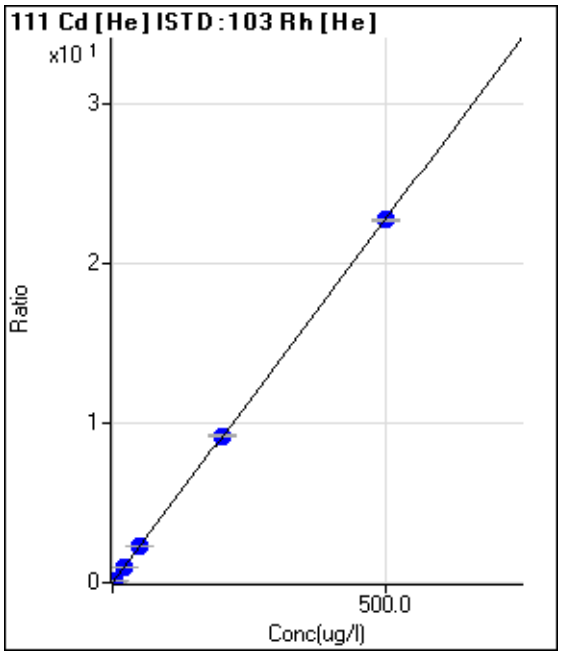
Low point for Ag is outside of acceptance range. Point was left in curve but MRL was raised to 1ppb this sequence. Analyst confirmed that removing the low point appeared to have no effect on data but it was in when data was generated so it has been left - JPB 05/21/20



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5	0.000	P	38.4
2	☐	0.180	0.186	640	0.011	P	6.7
3	☐	0.900	0.838	2925	0.048	P	3.0
4	☐	1.800	1.801	6120	0.102	P	3.6
5	☐	3.600	3.551	12336	0.202	P	1.9
6	☐	20.000	20.033	68314	1.138	P	2.3
7	☐	50.000	50.080	169961	2.844	P	1.0
8	☐	200.000	188.464	659617	10.703	P	6.2
9	☐	500.000	504.605	1639633	28.657	A	1.2
10	☐			20400	0.379	P	1.2

y = 0.0568 * x + 8.5066E-005
R = 0.9997
DL = 0.001727
BEC = 0.001498

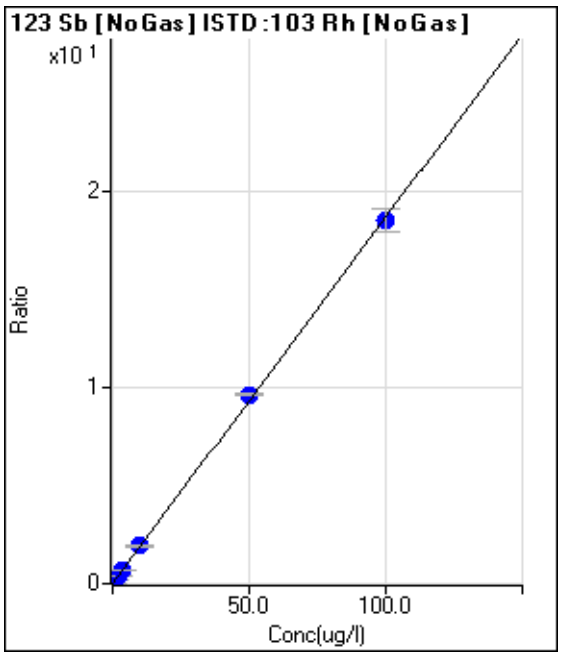
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2	0.000	P	173.2
2	☐	0.180	0.181	247	0.008	P	2.8
3	☐	0.900	0.898	1237	0.041	P	7.0
4	☐	1.800	1.855	2520	0.084	P	3.1
5	☐	3.600	3.742	5102	0.170	P	2.6
6	☐	20.000	20.034	27559	0.911	P	0.5
7	☐	50.000	50.820	68315	2.311	P	0.4
8	☐	200.000	202.004	269650	9.185	P	1.0
9	☐	500.000	499.114	650292	22.694	P	0.5
10	☐			8186	0.309	P	1.5

y = 0.0455 * x + 7.5211E-005
R = 1.0000
DL = 0.008595
BEC = 0.001654

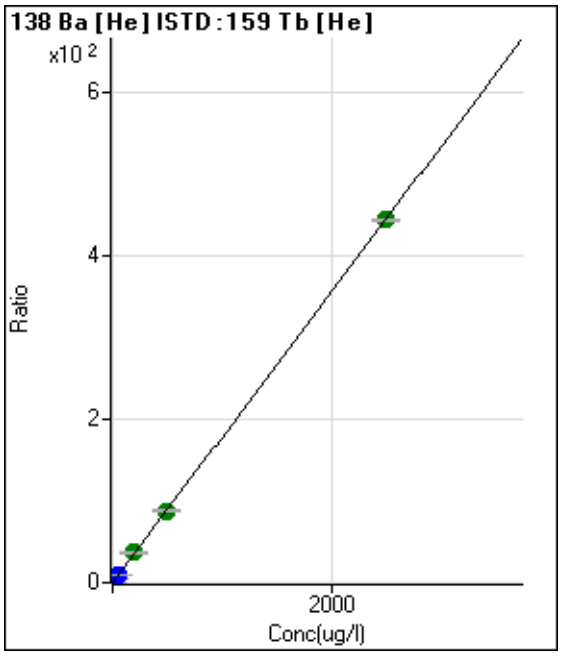
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	121	0.002	P	18.9
2	☐	0.180	0.177	2104	0.035	P	5.0
3	☐	0.900	0.896	10379	0.169	P	3.1
4	☐	1.800	1.863	20897	0.350	P	1.4
5	☐	3.600	3.675	42034	0.688	P	2.7
6	☐	10.000	10.315	115688	1.927	P	2.0
7	☐	50.000	51.728	576931	9.654	P	0.5
8	☐	100.000	99.101	1139663	18.494	P	6.4
9	☐			553	0.010	P	10.3
10	☐			789	0.015	P	1.4

y = 0.1866 * x + 0.0020
R = 0.9998
DL = 0.006022
BEC = 0.01063

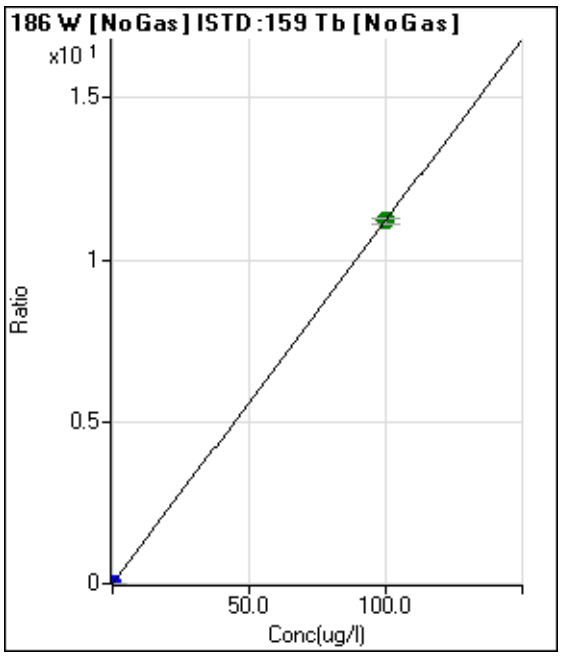
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	178	0.003	P	8.6
2	☐			2357	0.037	P	3.7
3	☐	0.900	0.930	10959	0.168	P	1.3
4	☐	1.800	1.875	21341	0.335	P	0.8
5	☐	3.600	3.768	43080	0.672	P	0.3
6	☐	20.000	20.633	237144	3.664	P	0.7
7	☐	50.000	51.493	591558	9.141	P	0.3
8	☐	200.000	206.073	2353207	36.574	A	2.3
9	☐	500.000	495.984	5590437	88.024	A	0.6
10	☐	2500.000	2500.282	26777597	443.720	A	0.7

y = 0.1775 * x + 0.0028
R = 1.0000
DL = 0.004067
BEC = 0.0157

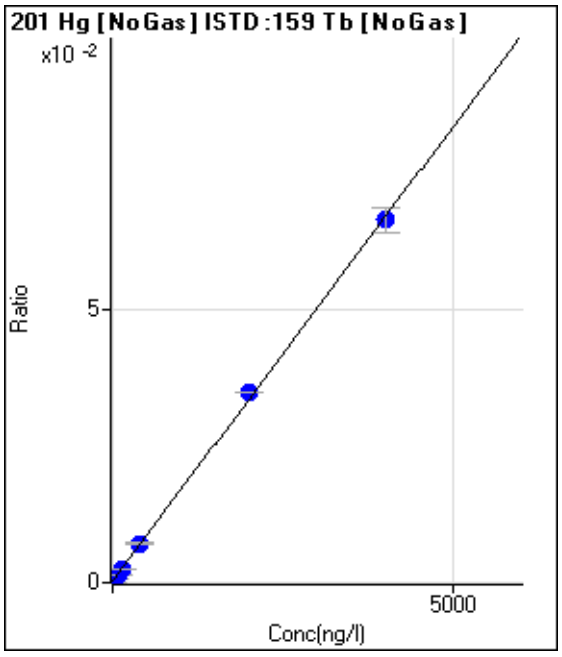
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93	0.001	P	61.1
2	☐			110	0.001	P	36.5
3	☐			103	0.001	P	20.4
4	☐			77	0.001	P	15.8
5	☐			117	0.001	P	12.7
6	☐			130	0.001	P	13.3
7	☐			224	0.002	P	25.6
8	☐			397	0.003	P	2.6
9	☐	100.000	100.000	1364745	11.208	A	1.7
10	☐			4589	0.039	P	8.5

y = 0.1121 * x + 7.5154E-004
R = 1.0000
DL = 0.0123
BEC = 0.006706

Weight: <None>
Min Conc: <None>

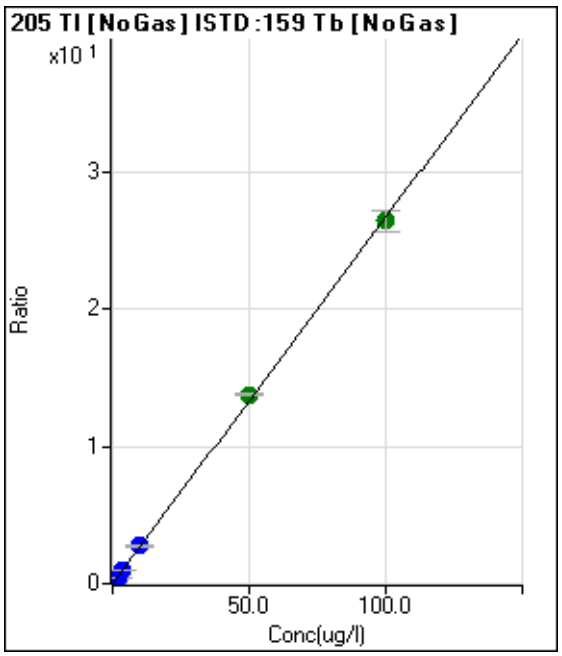


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-13.818	6	0.000	P	31.2
2	☐			16	0.000	P	4.6
3	☐	36.000	20.003	76	0.001	P	3.4
4	☐	72.000	60.116	155	0.001	P	4.9
5	☐	144.000	135.755	317	0.003	P	4.7
6	☐	400.000	414.645	880	0.007	P	2.8
7	☐	2000.000	2072.217	4327	0.035	P	0.6
8	☐	4000.000	3963.082	8549	0.067	P	7.1
9	☐			161	0.001	P	2.7
10	☐			40	0.000	P	7.8

y = 1.673542E-005 * x + 2.765613E-004
R = 0.9997
DL = 2.538
BEC = 16.53

Weight: <None>
Min Conc: <None>

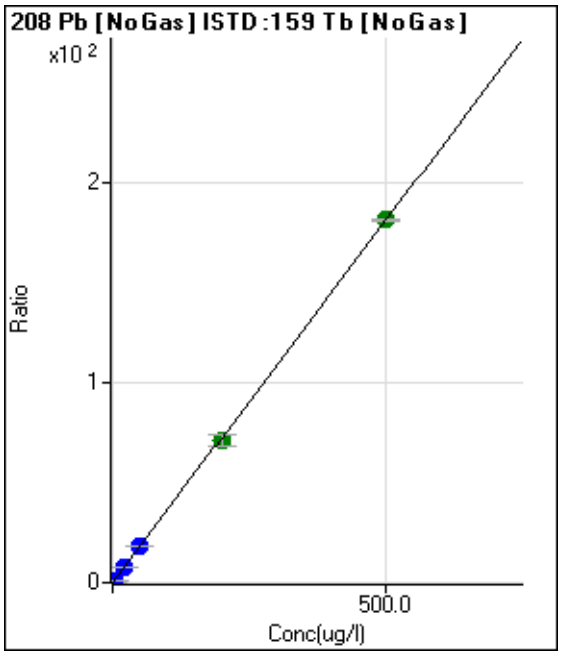
Calibration for 014_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58	0.000	P	12.8
2	☐	0.180	0.185	6015	0.050	P	2.7
3	☐	0.900	0.872	28982	0.233	P	2.8
4	☐	1.800	1.803	58258	0.481	P	0.7
5	☐	3.600	3.602	119145	0.960	P	4.4
6	☐	10.000	10.278	333622	2.737	P	1.4
7	☐	50.000	51.685	1703491	13.762	A	1.0
8	☐	100.000	99.130	3389359	26.395	A	6.2
9	☐			1567	0.013	P	7.0
10	☐			416	0.004	P	8.4

y = 0.2663 * x + 4.6680E-004
R = 0.9998
DL = 0.000673
BEC = 0.001753

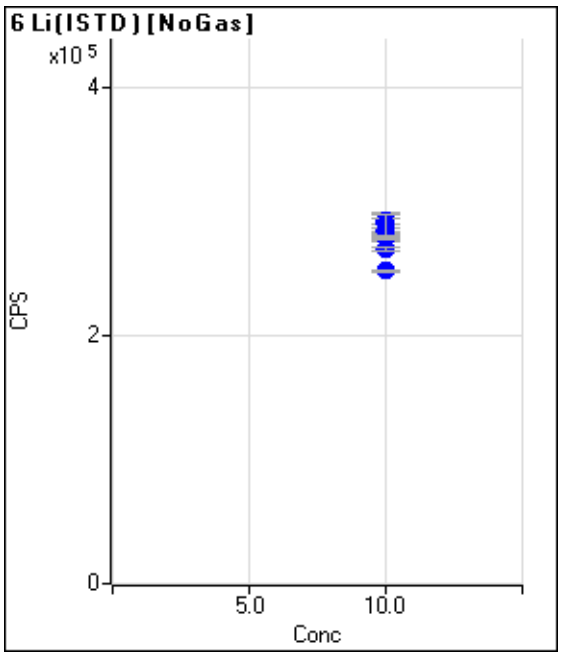
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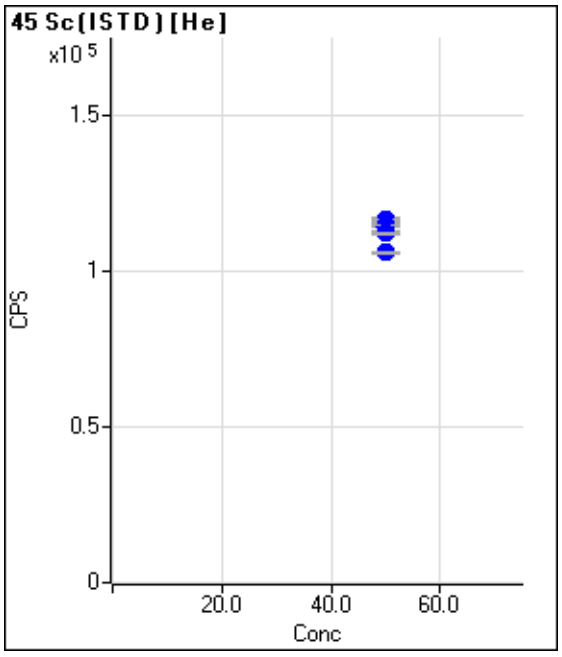
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	532	0.004	P	16.4
2	☐	0.180	0.190	8837	0.073	P	1.4
3	☐	0.900	0.903	41177	0.330	P	0.8
4	☐	1.800	1.858	81839	0.675	P	0.3
5	☐	3.600	3.684	165762	1.335	P	4.2
6	☐	20.000	20.851	918423	7.535	P	1.9
7	☐	50.000	50.981	2279680	18.417	P	1.0
8	☐	200.000	196.587	9113111	71.006	A	7.3
9	☐	500.000	501.232	22046154	181.034	A	0.5
10	☐			7824	0.067	P	4.8

y = 0.3612 * x + 0.0043
R = 1.0000
DL = 0.005815
BEC = 0.01179

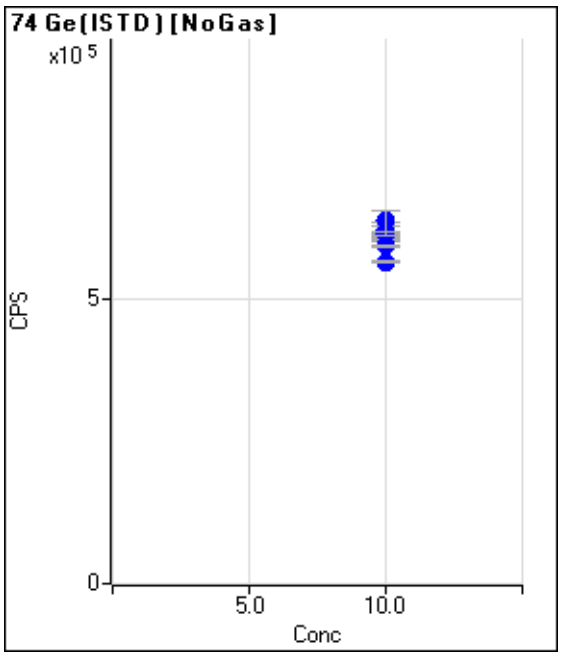
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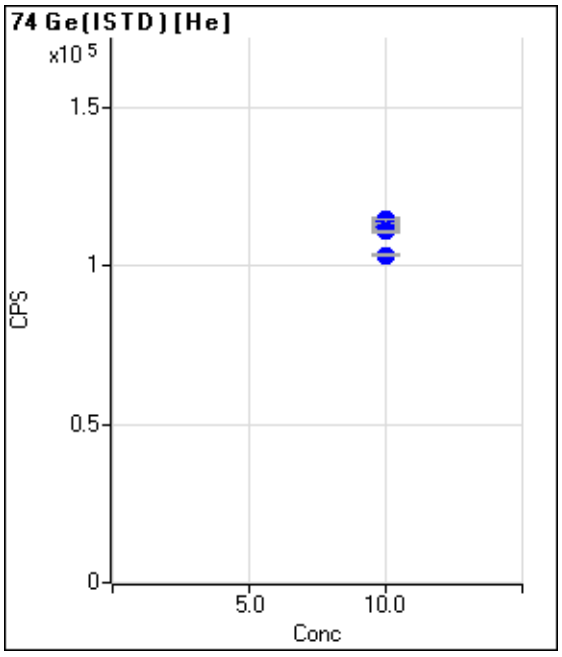
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	10.000		291585		P	5.4
2	☐	10.000		284727		P	0.8
3	☐	10.000		292181		P	1.4
4	☐	10.000		281729		P	0.5
5	☐	10.000		283405		P	2.1
6	☐	10.000		278828		P	1.8
7	☐	10.000		278282		P	0.4
8	☐	10.000		288879		P	5.5
9	☐	10.000		269922		P	1.1
10	☐	10.000		252243		P	0.8



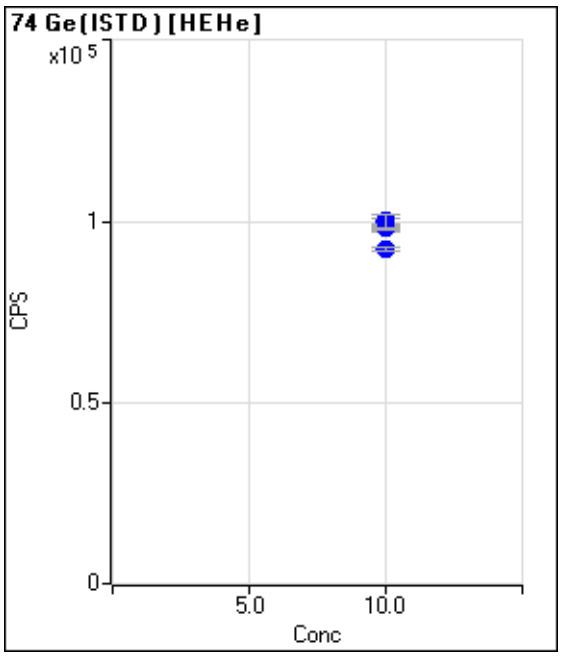
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	50.000		114978		P	0.8
2	☐	50.000		114776		P	0.7
3	☐	50.000		116083		P	0.1
4	☐	50.000		116134		P	1.5
5	☐	50.000		116280		P	1.0
6	☐	50.000		116088		P	0.7
7	☐	50.000		114498		P	0.8
8	☐	50.000		113781		P	1.2
9	☐	50.000		111871		P	0.8
10	☐	50.000		105869		P	0.8



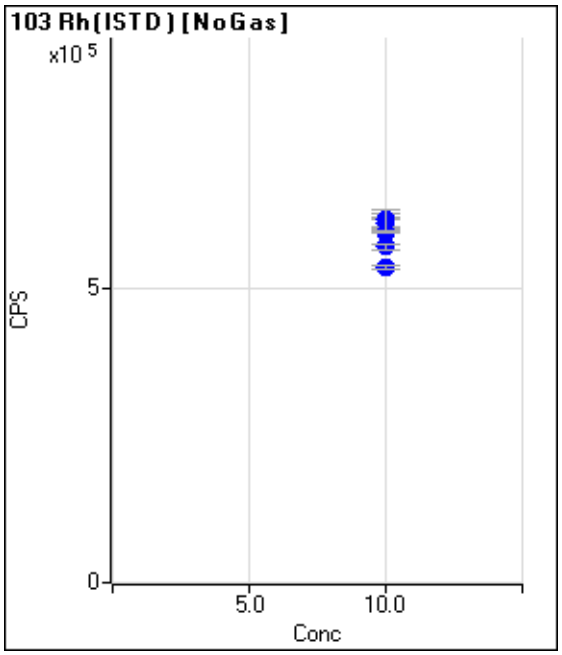
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	10.000		618160		P	5.2
2	☐	10.000		606049		P	0.5
3	☐	10.000		622799		P	1.8
4	☐	10.000		610777		P	0.5
5	☐	10.000		622964		P	2.4
6	☐	10.000		612634		P	2.3
7	☐	10.000		614500		P	1.0
8	☐	10.000		638087		P	5.8
9	☐	10.000		594271		P	0.7
10	☐	10.000		565724		P	0.8



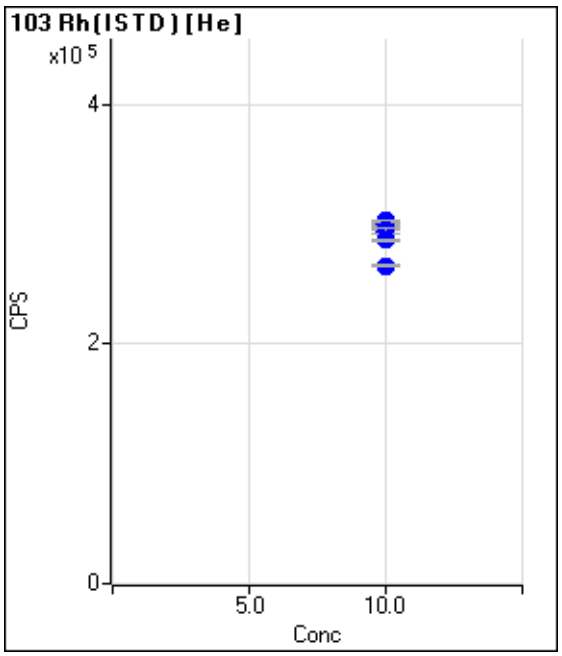
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1	☐	10.000		112248		P	0.4
2	☐	10.000		112250		P	1.5
3	☐	10.000		113973		P	0.1
4	☐	10.000		113507		P	0.5
5	☐	10.000		113665		P	0.9
6	☐	10.000		114655		P	1.1
7	☐	10.000		112445		P	1.1
8	☐	10.000		114287		P	1.1
9	☐	10.000		110927		P	0.2
10	☐	10.000		103489		P	0.6



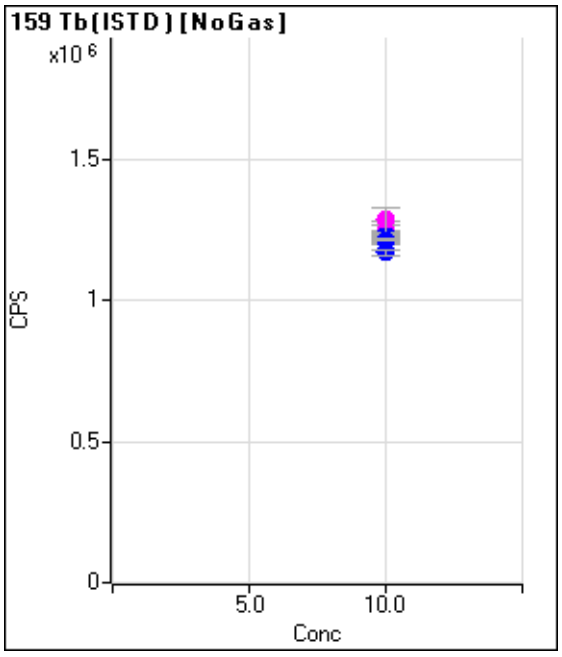
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1	☐	10.000		98336		P	1.2
2	☐	10.000		98422		P	1.1
3	☐	10.000		98221		P	2.0
4	☐	10.000		98685		P	0.6
5	☐	10.000		99948		P	1.4
6	☐	10.000		99988		P	1.3
7	☐	10.000		97967		P	1.2
8	☐	10.000		98123		P	0.6
9	☐	10.000		100132		P	3.9
10	☐	10.000		92348		P	0.6



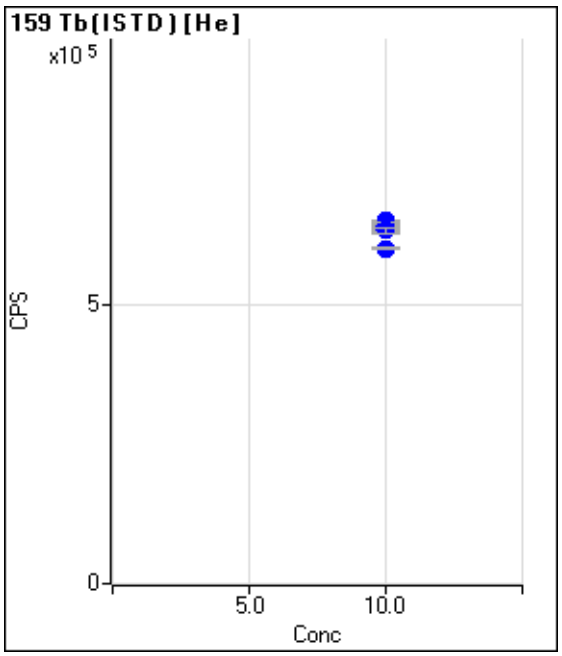
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	10.000		611266		P	5.4
2	☐	10.000		601135		P	0.6
3	☐	10.000		613804		P	2.2
4	☐	10.000		597777		P	0.4
5	☐	10.000		611646		P	3.4
6	☐	10.000		600569		P	1.8
7	☐	10.000		597605		P	0.6
8	☐	10.000		617831		P	6.0
9	☐	10.000		572241		P	1.7
10	☐	10.000		538355		P	1.2



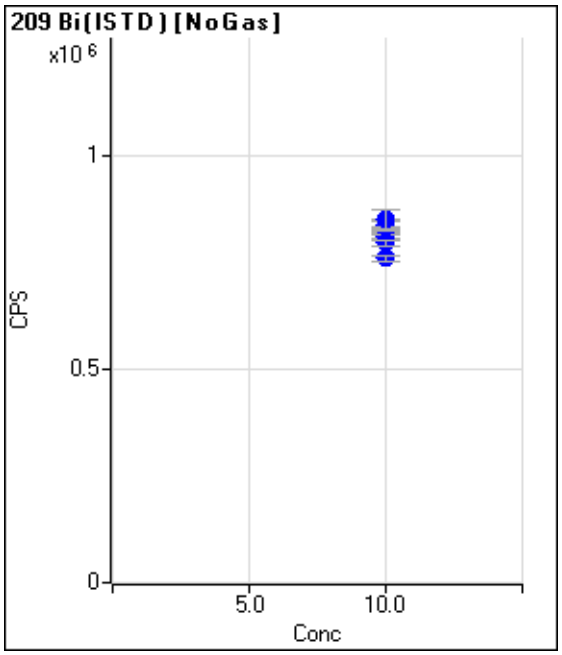
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	10.000		297145		P	0.7
2	☐	10.000		297576		P	0.1
3	☐	10.000		302535		P	0.7
4	☐	10.000		298540		P	0.4
5	☐	10.000		299794		P	1.1
6	☐	10.000		302511		P	0.5
7	☐	10.000		295630		P	0.3
8	☐	10.000		293602		P	1.6
9	☐	10.000		286540		P	0.9
10	☐	10.000		264889		P	0.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	10.000		1244803		M	6.7
2	☐	10.000		1212580		P	0.8
3	☐	10.000		1245983		M	0.7
4	☐	10.000		1212148		P	0.7
5	☐	10.000		1243095		M	4.0
6	☐	10.000		1219193		P	2.1
7	☐	10.000		1237875		P	0.9
8	☐	10.000		1287795		M	7.0
9	☐	10.000		1217778		P	0.7
10	☐	10.000		1170967		P	1.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	10.000		637681		P	1.3
2	☐	10.000		639743		P	0.4
3	☐	10.000		652823		P	0.2
4	☐	10.000		636139		P	0.9
5	☐	10.000		641503		P	0.9
6	☐	10.000		647155		P	0.5
7	☐	10.000		647139		P	0.5
8	☐	10.000		643569		P	1.8
9	☐	10.000		635135		P	1.4
10	☐	10.000		603499		P	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	10.000		830365		P	5.8
2	☐	10.000		812231		P	1.4
3	☐	10.000		830030		P	1.5
4	☐	10.000		820549		P	0.6
5	☐	10.000		838279		P	2.7
6	☐	10.000		826002		P	2.4
7	☐	10.000		833073		P	0.2
8	☐	10.000		851323		P	5.9
9	☐	10.000		796812		P	1.5
10	☐	10.000		760640		P	1.5

Calibration Standard Report ICPMS6

Sample Name	**0E20067-CAL2**	**Sample Type**	CalStd
File Name	006CALS.d	**Vial #**	2102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 20:31:38	**Sample QC Pass/Fail**	Fail
Comment	A20E189 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Raw Conc.	Units	CPS	CPS RSD	Rep	Int. sec	QC Flag
Be	9	6	No Gas	0.879	ug/l	2304	1.3	3	0.3000	
Na	23	45	He	42.633	ug/l	61801	0.6	3	0.2001	
Mg	24	45	He	46.041	ug/l	14774	2.5	3	0.2001	
Al	27	45	He	46.879	ug/l	7067	4.2	3	0.2001	
K	39	45	He	46.114	ug/l	56449	0.5	3	0.2001	
Ca	44	45	He	268.898	ug/l	4879	2.6	3	0.2001	
Ti	47	45	He	1.073	ug/l	116	11.7	3	0.3000	
V	51	74	He	0.917	ug/l	6118	2.7	3	0.3000	
Cr	52	74	He	0.936	ug/l	3651	3.7	3	0.3000	
Mn	55	74	He	0.936	ug/l	2274	1.5	3	0.3000	
Fe	56	74	He	46.075	ug/l	148072	0.4	3	0.3000	
Co	59	74	He	0.913	ug/l	4604	4.3	3	0.3000	
Ni	60	74	He	0.883	ug/l	1196	5.5	3	0.3000	
Cu	65	74	He	0.96	ug/l	1705	1.8	3	0.3000	
Cu	65	74	No Gas	0.926	ug/l	4457	3.1	3	0.3000	
Zn	66	74	He	0.916	ug/l	778	4.1	3	0.3000	
As	75	74	He	0.911	ug/l	801	0.4	3	2.0001	
Se	78	74	HEHe	0.93	ug/l	72	0.0	3	3.0000	
Mo	95	103	He	0.888	ug/l	2165	3.6	3	0.3000	
[Cd]	106	103	No Gas	3.873	ug/l	280	18.0	3	0.3000	RSD Warning
[Cd]	108	103	No Gas	3.969	ug/l	213	8.1	3	0.3000	
Ag	109	103	No Gas	0.671	ug/l	9700	3.4	3	0.3000	
Cd	111	103	He	0.898	ug/l	1237	6.5	3	0.3000	
Cd	111	103	No Gas	0.838	ug/l	2925	2.7	3	0.3000	
Sb	123	103	No Gas	0.896	ug/l	10379	2.2	3	0.3000	
Ba	138	159	He	0.93	ug/l	10959	1.1	3	0.3000	
W	186	159	No Gas	0.001	ug/l	103	20.1	3	0.0999	RSD Warning
Hg	201	159	No Gas	20.003	ng/l	76	3.2	3	2.0001	
Tl	205	159	No Gas	0.872	ug/l	28982	2.7	3	0.3000	
Pb	208	159	No Gas	0.903	ug/l	41177	1.3	3	0.3000	

QC ISTD Table

Name	Mass	Tune	CPS	CPS RSD	Rep	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	292181	1.4	3	291584.83	100.2	70	120	
Sc	45	He	116083	0.1	3	114978.37	100.96	70	120	
Ge	74	No Gas	622799	1.8	3	618159.76	100.75	70	120	
Ge	74	He	113973	0.1	3	112248.35	101.54	70	120	
Ge	74	HEHe	98221	2.0	3	98336.1	99.88	70	120	
Rh	103	No Gas	613804	2.2	3	611266.07	100.42	70	120	
Rh	103	He	302535	0.7	3	297145.14	101.81	70	120	
Tb	159	No Gas	1245983	0.7	3	1244803.35	100.09	70	120	
Tb	159	He	652823	0.2	3	637681.1	102.37	70	120	
Bi	209	No Gas	830030	1.5	3	830364.59	99.96	70	120	

Calibration Standard Report ICPMS6

Sample Name	**0E20067-CAL3**	**Sample Type**	CalStd
File Name	007CALS.d	**Vial #**	2103
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 20:36:38	**Sample QC Pass/Fail**	Fail
Comment	A20E190 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Raw Conc.	Units	CPS	CPS RSD	Rep	Int. sec	QC Flag
Be	9	6	No Gas	1.879	ug/l	4723	1.6	3	0.3000	
Na	23	45	He	88.379	ug/l	87902	0.8	3	0.2001	
Mg	24	45	He	93.192	ug/l	29736	1.3	3	0.2001	
Al	27	45	He	91.843	ug/l	13818	3.0	3	0.2001	
K	39	45	He	92.542	ug/l	72684	1.9	3	0.2001	
Ca	44	45	He	550.534	ug/l	9917	1.2	3	0.2001	
Ti	47	45	He	1.939	ug/l	209	5.6	3	0.3000	
V	51	74	He	1.817	ug/l	8856	1.9	3	0.3000	
Cr	52	74	He	1.833	ug/l	6786	2.3	3	0.3000	
Mn	55	74	He	1.855	ug/l	4383	1.8	3	0.3000	
Fe	56	74	He	91.964	ug/l	290449	0.5	3	0.3000	
Co	59	74	He	1.881	ug/l	9410	1.2	3	0.3000	
Ni	60	74	He	1.872	ug/l	2432	3.5	3	0.3000	
Cu	65	74	He	1.962	ug/l	3354	3.8	3	0.3000	
Cu	65	74	No Gas	1.93	ug/l	8651	2.9	3	0.3000	
Zn	66	74	He	1.857	ug/l	1522	4.0	3	0.3000	
As	75	74	He	1.872	ug/l	1508	1.1	3	2.0001	
Se	78	74	HEHe	1.787	ug/l	137	1.1	3	3.0000	
Mo	95	103	He	1.8	ug/l	4320	1.8	3	0.3000	
[Cd]	106	103	No Gas	7.65	ug/l	539	8.1	3	0.3000	
[Cd]	108	103	No Gas	7.948	ug/l	414	7.3	3	0.3000	
Ag	109	103	No Gas	1.551	ug/l	21793	2.6	3	0.3000	
Cd	111	103	He	1.855	ug/l	2520	3.4	3	0.3000	
Cd	111	103	No Gas	1.801	ug/l	6120	4.0	3	0.3000	
Sb	123	103	No Gas	1.863	ug/l	20897	1.1	3	0.3000	
Ba	138	159	He	1.875	ug/l	21341	0.4	3	0.3000	
W	186	159	No Gas	-0.001	ug/l	77	15.1	3	0.0999	RSD Warning
Hg	201	159	No Gas	60.116	ng/l	155	5.3	3	2.0001	
Tl	205	159	No Gas	1.803	ug/l	58258	0.7	3	0.3000	
Pb	208	159	No Gas	1.858	ug/l	81839	0.7	3	0.3000	

QC ISTD Table

Name	Mass	Tune	CPS	CPS RSD	Rep	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	281729	0.5	3	291584.83	96.62	70	120	
Sc	45	He	116134	1.5	3	114978.37	101	70	120	
Ge	74	No Gas	610777	0.5	3	618159.76	98.81	70	120	
Ge	74	He	113507	0.5	3	112248.35	101.12	70	120	
Ge	74	HEHe	98685	0.6	3	98336.1	100.35	70	120	
Rh	103	No Gas	597777	0.4	3	611266.07	97.79	70	120	
Rh	103	He	298540	0.4	3	297145.14	100.47	70	120	
Tb	159	No Gas	1212148	0.7	3	1244803.35	97.38	70	120	
Tb	159	He	636139	0.9	3	637681.1	99.76	70	120	
Bi	209	No Gas	820549	0.6	3	830364.59	98.82	70	120	

Calibration Standard Report ICPMS6

Sample Name	**0E20067-CAL4**	**Sample Type**	CalStd
File Name	008CALS.d	**Vial #**	2104
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 20:41:38	**Sample QC Pass/Fail**	Fail
Comment	A20E191 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Raw Conc.	Units	CPS	CPS RSD	Rep	Int. sec	QC Flag
Be	9	6	No Gas	3.657	ug/l	9227	1.3	3	0.3000	
Na	23	45	He	181.634	ug/l	141244	0.5	3	0.2001	
Mg	24	45	He	184.845	ug/l	58883	0.3	3	0.2001	
Al	27	45	He	190.815	ug/l	28713	0.6	3	0.2001	
K	39	45	He	185.121	ug/l	105131	1.0	3	0.2001	
Ca	44	45	He	1075.307	ug/l	19329	0.6	3	0.2001	
Ti	47	45	He	3.835	ug/l	413	16.2	3	0.3000	RSD Warning
V	51	74	He	3.718	ug/l	14717	1.7	3	0.3000	
Cr	52	74	He	3.72	ug/l	13439	1.4	3	0.3000	
Mn	55	74	He	3.693	ug/l	8628	3.6	3	0.3000	
Fe	56	74	He	185.931	ug/l	584041	0.6	3	0.3000	
Co	59	74	He	3.845	ug/l	19223	0.9	3	0.3000	
Ni	60	74	He	3.823	ug/l	4888	1.6	3	0.3000	
Cu	65	74	He	3.969	ug/l	6679	2.2	3	0.3000	
Cu	65	74	No Gas	3.85	ug/l	17169	0.9	3	0.3000	
Zn	66	74	He	3.685	ug/l	2979	4.0	3	0.3000	
As	75	74	He	3.603	ug/l	2790	1.5	3	2.0001	
Se	78	74	HEHe	3.437	ug/l	266	5.6	3	3.0000	
Mo	95	103	He	3.575	ug/l	8603	4.1	3	0.3000	
[Cd]	106	103	No Gas	16.19	ug/l	1166	5.4	3	0.3000	
[Cd]	108	103	No Gas	15.275	ug/l	813	5.2	3	0.3000	
Ag	109	103	No Gas	3.303	ug/l	47419	2.8	3	0.3000	
Cd	111	103	He	3.742	ug/l	5102	2.5	3	0.3000	
Cd	111	103	No Gas	3.551	ug/l	12336	1.6	3	0.3000	
Sb	123	103	No Gas	3.675	ug/l	42034	0.9	3	0.3000	
Ba	138	159	He	3.768	ug/l	43080	0.9	3	0.3000	
W	186	159	No Gas	0.002	ug/l	117	13.1	3	0.0999	
Hg	201	159	No Gas	135.755	ng/l	317	4.9	3	2.0001	
Tl	205	159	No Gas	3.602	ug/l	119145	0.5	3	0.3000	
Pb	208	159	No Gas	3.684	ug/l	165762	0.3	3	0.3000	

QC ISTD Table

Name	Mass	Tune	CPS	CPS RSD	Rep	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	283405	2.1	3	291584.83	97.19	70	120	
Sc	45	He	116280	1.0	3	114978.37	101.13	70	120	
Ge	74	No Gas	622964	2.4	3	618159.76	100.78	70	120	
Ge	74	He	113665	0.9	3	112248.35	101.26	70	120	
Ge	74	HEHe	99948	1.4	3	98336.1	101.64	70	120	
Rh	103	No Gas	611646	3.4	3	611266.07	100.06	70	120	
Rh	103	He	299794	1.1	3	297145.14	100.89	70	120	
Tb	159	No Gas	1243095	4.0	3	1244803.35	99.86	70	120	
Tb	159	He	641503	0.9	3	637681.1	100.6	70	120	
Bi	209	No Gas	838279	2.7	3	830364.59	100.95	70	120	

Calibration Standard Report ICPMS6

Sample Name	**0E20067-CAL5**	**Sample Type**	CalStd
File Name	009CALS.d	**Vial #**	2105
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 20:46:38	**Sample QC Pass/Fail**	Pass
Comment	A20E192 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Raw Conc.	Units	CPS	CPS RSD	Rep	Int. sec	QC Flag
Be	9	6	No Gas	10.208	ug/l	25304	1.4	3	0.3000	
Na	23	45	He	413.979	ug/l	273435	0.5	3	0.2001	
Mg	24	45	He	413.593	ug/l	131322	0.5	3	0.2001	
Al	27	45	He	422.315	ug/l	63406	0.7	3	0.2001	
K	39	45	He	422.289	ug/l	187749	0.8	3	0.2001	
Ca	44	45	He	415.521	ug/l	7500	1.4	3	0.2001	
Ti	47	45	He	19.286	ug/l	2077	6.2	3	0.3000	
V	51	74	He	20.311	ug/l	66309	1.6	3	0.3000	
Cr	52	74	He	20.626	ug/l	73566	0.6	3	0.3000	
Mn	55	74	He	20.359	ug/l	47506	0.9	3	0.3000	
Fe	56	74	He	415.755	ug/l	1312417	2.0	3	0.3000	
Co	59	74	He	20.995	ug/l	105737	0.3	3	0.3000	
Ni	60	74	He	21.203	ug/l	26959	0.9	3	0.3000	
Cu	65	74	He	21.73	ug/l	36370	1.1	3	0.3000	
Cu	65	74	No Gas	21.555	ug/l	92552	1.0	3	0.3000	
Zn	66	74	He	20.441	ug/l	16450	1.0	3	0.3000	
As	75	74	He	20.048	ug/l	15080	0.5	3	2.0001	
Se	78	74	HEHe	9.88	ug/l	761	2.2	3	3.0000	
Mo	95	103	He	9.937	ug/l	24124	0.3	3	0.3000	
[Cd]	106	103	No Gas	85.382	ug/l	6029	0.9	3	0.3000	
[Cd]	108	103	No Gas	86.306	ug/l	4500	0.2	3	0.3000	
Ag	109	103	No Gas	9.85	ug/l	138857	0.8	3	0.3000	
Cd	111	103	He	20.034	ug/l	27559	0.5	3	0.3000	
Cd	111	103	No Gas	20.033	ug/l	68314	0.7	3	0.3000	
Sb	123	103	No Gas	10.315	ug/l	115688	0.3	3	0.3000	
Ba	138	159	He	20.633	ug/l	237144	0.2	3	0.3000	
W	186	159	No Gas	0.003	ug/l	130	13.3	3	0.0999	
Hg	201	159	No Gas	414.645	ng/l	880	3.9	3	2.0001	
Tl	205	159	No Gas	10.278	ug/l	333622	0.7	3	0.3000	
Pb	208	159	No Gas	20.851	ug/l	918423	0.2	3	0.3000	

QC ISTD Table

Name	Mass	Tune	CPS	CPS RSD	Rep	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	278828	1.8	3	291584.83	95.63	70	120	
Sc	45	He	116088	0.7	3	114978.37	100.97	70	120	
Ge	74	No Gas	612634	2.3	3	618159.76	99.11	70	120	
Ge	74	He	114655	1.1	3	112248.35	102.14	70	120	
Ge	74	HEHe	99988	1.3	3	98336.1	101.68	70	120	
Rh	103	No Gas	600569	1.8	3	611266.07	98.25	70	120	
Rh	103	He	302511	0.5	3	297145.14	101.81	70	120	
Tb	159	No Gas	1219193	2.1	3	1244803.35	97.94	70	120	
Tb	159	He	647155	0.5	3	637681.1	101.49	70	120	
Bi	209	No Gas	826002	2.4	3	830364.59	99.47	70	120	

Calibration Standard Report ICPMS6

Sample Name	**0E20067-CAL6**	**Sample Type**	CalStd
File Name	010CALS.d	**Vial #**	2106
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 20:51:37	**Sample QC Pass/Fail**	Fail
Comment	A20E185	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Raw Conc.	Units	CPS	CPS RSD	Rep	Int. sec	QC Flag
Be	9	6	No Gas	51.868	ug/l	128236	0.6	3	0.3000	
Na	23	45	He	2595.982	ug/l	1496206	0.8	3	0.2001	
Mg	24	45	He	2545.285	ug/l	796200	0.3	3	0.2001	
Al	27	45	He	2589.549	ug/l	383289	0.8	3	0.2001	
K	39	45	He	2572.61	ug/l	925380	0.7	3	0.2001	
Ca	44	45	He	14885.559	ug/l	262599	1.4	3	0.2001	
Ti	47	45	He	50.408	ug/l	5352	1.4	3	0.3000	
V	51	74	He	50.633	ug/l	157261	0.5	3	0.3000	
Cr	52	74	He	50.967	ug/l	177787	0.8	3	0.3000	
Mn	55	74	He	50.903	ug/l	116332	0.9	3	0.3000	
Fe	56	74	He	2523.095	ug/l	7791791	0.9	3	0.3000	
Co	59	74	He	52.073	ug/l	257159	0.8	3	0.3000	
Ni	60	74	He	52.392	ug/l	65214	0.7	3	0.3000	
Cu	65	74	He	52.352	ug/l	85786	0.9	3	0.3000	
Cu	65	74	No Gas	51.882	ug/l	222893	0.4	3	0.3000	
Zn	66	74	He	51.687	ug/l	40718	1.1	3	0.3000	
As	75	74	He	50.901	ug/l	37360	0.9	3	2.0001	
Se	78	74	HEHe	50.213	ug/l	3786	0.3	3	3.0000	
Mo	95	103	He	49.867	ug/l	118280	0.6	3	0.3000	
[Cd]	106	103	No Gas	216.199	ug/l	15193	1.9	3	0.3000	
[Cd]	108	103	No Gas	222.298	ug/l	11532	0.9	3	0.3000	
Ag	109	103	No Gas	50.707	ug/l	711339	1.0	3	0.3000	
Cd	111	103	He	50.82	ug/l	68315	0.7	3	0.3000	
Cd	111	103	No Gas	50.08	ug/l	169961	0.8	3	0.3000	
Sb	123	103	No Gas	51.728	ug/l	576931	0.7	3	0.3000	
Ba	138	159	He	51.493	ug/l	591558	0.8	3	0.3000	
W	186	159	No Gas	0.009	ug/l	224	25.5	3	0.0999	RSD Warning
Hg	201	159	No Gas	2072.217	ng/l	4327	0.7	3	2.0001	
Tl	205	159	No Gas	51.685	ug/l	1703491	0.6	3	0.3000	
Pb	208	159	No Gas	50.981	ug/l	2279680	0.4	3	0.3000	

QC ISTD Table

Name	Mass	Tune	CPS	CPS RSD	Rep	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	278282	0.4	3	291584.83	95.44	70	120	
Sc	45	He	114498	0.8	3	114978.37	99.58	70	120	
Ge	74	No Gas	614500	1.0	3	618159.76	99.41	70	120	
Ge	74	He	112445	1.1	3	112248.35	100.18	70	120	
Ge	74	HEHe	97967	1.2	3	98336.1	99.62	70	120	
Rh	103	No Gas	597605	0.6	3	611266.07	97.77	70	120	
Rh	103	He	295630	0.3	3	297145.14	99.49	70	120	
Tb	159	No Gas	1237875	0.9	3	1244803.35	99.44	70	120	
Tb	159	He	647139	0.5	3	637681.1	101.48	70	120	
Bi	209	No Gas	833073	0.2	3	830364.59	100.33	70	120	

Calibration Standard Report ICPMS6

Sample Name	**0E20067-CAL7**	**Sample Type**	CalStd
File Name	011CALS.d	**Vial #**	2107
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 20:56:35	**Sample QC Pass/Fail**	Pass
Comment	A20E187	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Raw Conc.	Units	CPS	CPS RSD	Rep	Int. sec	QC Flag
Be	9	6	No Gas	99.042	ug/l	253639	0.4	3	0.3000	
Na	23	45	He	4147.137	ug/l	2352898	0.9	3	0.2001	
Mg	24	45	He	4118.822	ug/l	1280095	0.7	3	0.2001	
Al	27	45	He	4207.124	ug/l	618721	1.0	3	0.2001	
K	39	45	He	4127.88	ug/l	1451478	0.6	3	0.2001	
Ca	44	45	He	4093.578	ug/l	71801	1.0	3	0.2001	
Ti	47	45	He	200.374	ug/l	21139	1.7	3	0.3000	
V	51	74	He	197.248	ug/l	613068	0.6	3	0.3000	
Cr	52	74	He	199.45	ug/l	706061	0.4	3	0.3000	
Mn	55	74	He	200.478	ug/l	465331	0.7	3	0.3000	
Fe	56	74	He	4012.66	ug/l	12591660	0.6	3	0.3000	
Co	59	74	He	202.876	ug/l	1018175	0.8	3	0.3000	
Ni	60	74	He	206.176	ug/l	260561	1.3	3	0.3000	
Cu	65	74	He	204.236	ug/l	339782	1.1	3	0.3000	
Cu	65	74	No Gas	195.683	ug/l	869811	0.9	3	0.3000	
Zn	66	74	He	200.829	ug/l	160675	0.9	3	0.3000	
As	75	74	He	198.621	ug/l	147795	0.8	3	2.0001	
Se	78	74	HEHe	99.911	ug/l	7544	1.5	3	3.0000	
Mo	95	103	He	100.074	ug/l	235668	1.3	3	0.3000	
[Cd]	106	103	No Gas	820.127	ug/l	59441	1.4	3	0.3000	
[Cd]	108	103	No Gas	834.803	ug/l	44674	0.9	3	0.3000	
Ag	109	103	No Gas	99.679	ug/l	1442064	0.7	3	0.3000	
Cd	111	103	He	202.004	ug/l	269650	1.1	3	0.3000	
Cd	111	103	No Gas	188.464	ug/l	659617	0.5	3	0.3000	
Sb	123	103	No Gas	99.101	ug/l	1139663	0.7	3	0.3000	
Ba	138	159	He	206.073	ug/l	2353207	1.0	3	0.3000	
W	186	159	No Gas	0.021	ug/l	397	7.7	3	0.0999	
Hg	201	159	No Gas	3963.082	ng/l	8549	0.4	3	2.0001	
Tl	205	159	No Gas	99.13	ug/l	3389359	0.6	3	0.3000	
Pb	208	159	No Gas	196.587	ug/l	9113111	0.6	3	0.3000	

QC ISTD Table

Name	Mass	Tune	CPS	CPS RSD	Rep	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	288879	5.5	3	291584.83	99.07	70	120	
Sc	45	He	113781	1.2	3	114978.37	98.96	70	120	
Ge	74	No Gas	638087	5.8	3	618159.76	103.22	70	120	
Ge	74	He	114287	1.1	3	112248.35	101.82	70	120	
Ge	74	HEHe	98123	0.6	3	98336.1	99.78	70	120	
Rh	103	No Gas	617831	6.0	3	611266.07	101.07	70	120	
Rh	103	He	293602	1.6	3	297145.14	98.81	70	120	
Tb	159	No Gas	1287795	7.0	3	1244803.35	103.45	70	120	
Tb	159	He	643569	1.8	3	637681.1	100.92	70	120	
Bi	209	No Gas	851323	5.9	3	830364.59	102.52	70	120	

Calibration Standard Report ICPMS6

Sample Name	**0E20067-CAL8**	**Sample Type**	CalStd
File Name	012CALS.d	**Vial #**	2108
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 21:01:24	**Sample QC Pass/Fail**	Fail
Comment	A20D402	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Raw Conc.	Units	CPS	CPS RSD	Rep	Int. sec	QC Flag
Be	9	6	No Gas	0.035	ug/l	104	3.7	3	0.3000	
Na	23	45	He	10024.629	ug/l	5541634	0.4	3	0.2001	
Mg	24	45	He	9940.486	ug/l	3037756	1.5	3	0.2001	
Al	27	45	He	10157.915	ug/l	1468895	1.5	3	0.2001	
K	39	45	He	10110.299	ug/l	3439491	0.8	3	0.2001	
Ca	44	45	He	10039.859	ug/l	173083	1.9	3	0.2001	
Ti	47	45	He	493.263	ug/l	51175	1.1	3	0.3000	
V	51	74	He	501.024	ug/l	1506661	1.5	3	0.3000	
Cr	52	74	He	500.594	ug/l	1719670	0.7	3	0.3000	
Mn	55	74	He	495.656	ug/l	1116545	1.0	3	0.3000	
Fe	56	74	He	9950.672	ug/l	30303666	0.7	3	0.3000	
Co	59	74	He	498.6	ug/l	2428865	0.8	3	0.3000	
Ni	60	74	He	501.315	ug/l	614888	0.2	3	0.3000	
Cu	65	74	He	496.656	ug/l	801937	0.6	3	0.3000	
Cu	65	74	No Gas	509.565	ug/l	2113473	0.3	3	0.3000	
Zn	66	74	He	497.438	ug/l	386235	1.1	3	0.3000	
As	75	74	He	500.459	ug/l	361295	0.9	3	2.0001	
Se	78	74	HEHe	0.043	ug/l	5	8.1	3	3.0000	
Mo	95	103	He	0.091	ug/l	216	12.4	3	0.3000	
[Cd]	106	103	No Gas	2164.65	ug/l	145634	1.2	3	0.3000	
[Cd]	108	103	No Gas	2164.337	ug/l	107477	0.3	3	0.3000	
Ag	109	103	No Gas	0.192	ug/l	2621	18.4	3	0.3000	RSD Warning
Cd	111	103	He	499.114	ug/l	650292	1.3	3	0.3000	
Cd	111	103	No Gas	504.605	ug/l	1639633	0.5	3	0.3000	
Sb	123	103	No Gas	0.041	ug/l	553	10.9	3	0.3000	
Ba	138	159	He	495.984	ug/l	5590437	0.9	3	0.3000	
W	186	159	No Gas	100	ug/l	1364745	1.1	3	0.0999	
Hg	201	159	No Gas	62.377	ng/l	161	3.4	3	2.0001	
Tl	205	159	No Gas	0.047	ug/l	1567	7.7	3	0.3000	
Pb	208	159	No Gas	501.232	ug/l	22046154	1.0	3	0.3000	

QC ISTD Table

Name	Mass	Tune	CPS	CPS RSD	Rep	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	269922	1.1	3	291584.83	92.57	70	120	
Sc	45	He	111871	0.8	3	114978.37	97.3	70	120	
Ge	74	No Gas	594271	0.7	3	618159.76	96.14	70	120	
Ge	74	He	110927	0.2	3	112248.35	98.82	70	120	
Ge	74	HEHe	100132	3.9	3	98336.1	101.83	70	120	
Rh	103	No Gas	572241	1.7	3	611266.07	93.62	70	120	
Rh	103	He	286540	0.9	3	297145.14	96.43	70	120	
Tb	159	No Gas	1217778	0.7	3	1244803.35	97.83	70	120	
Tb	159	He	635135	1.4	3	637681.1	99.6	70	120	
Bi	209	No Gas	796812	1.5	3	830364.59	95.96	70	120	

Initial Calibration Verification (ICV) Report ICPMS6

Sample Name	**0E20067-ICV1**	**Sample Type**	ICV
File Name	014_ICV.d	**Vial #**	1102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 21:10:57	**Sample QC Pass/Fail**	Pass
Comment	A20E094 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	6	No Gas	41.805	ug/l	0.4	99466	40	104.51	90	110	
Na	23	45	He	4195.798	ug/l	0.6	2338936	4000	104.89	90	110	
Mg	24	45	He	4378.876	ug/l	1.4	1337263	4000	109.47	90	110	
Al	27	45	He	4325.037	ug/l	1.1	625032	4000	108.13	90	110	
K	39	45	He	4260.011	ug/l	1.7	1470640	4000	106.5	90	110	
Ca	44	45	He	4221.638	ug/l	0.6	72765	4000	105.54	90	110	
Ti	47	45	He	102.748	ug/l	1.3	10653	100	102.75	90	110	
V	51	74	He	101.349	ug/l	0.2	305801	100	101.35	90	110	
Cr	52	74	He	104.066	ug/l	1.1	355962	100	104.07	90	110	
Mn	55	74	He	106.980	ug/l	1.0	239865	100	106.98	90	110	
Fe	56	74	He	4246.885	ug/l	0.5	12870926	4000	106.17	90	110	
Co	59	74	He	107.087	ug/l	0.7	519066	100	107.09	90	110	
Ni	60	74	He	108.117	ug/l	0.3	132012	100	108.12	90	110	
Cu	65	74	He	106.321	ug/l	0.7	170899	100	106.32	90	110	
Cu	65	74	No Gas	105.916	ug/l	0.9	437239	100	105.92	90	110	
Zn	66	74	He	101.124	ug/l	0.5	78162	100	101.12	90	110	
As	75	74	He	100.728	ug/l	0.6	72452	100	100.73	90	110	
Se	78	74	HEHe	40.627	ug/l	0.7	3047	40	101.57	90	110	
Mo	95	103	He	40.797	ug/l	1.5	94654	40	101.99	90	110	
Ag	109	103	No Gas	41.296	ug/l	1.5	553733	40	103.24	90	110	
Cd	111	103	He	100.928	ug/l	1.6	132707	100	100.93	90	110	
Cd	111	103	No Gas	99.854	ug/l	1.5	323919	100	99.85	90	110	
Sb	123	103	No Gas	42.818	ug/l	1.2	456483	40	107.04	90	110	
Ba	138	159	He	105.446	ug/l	0.3	1177149	100	105.45	90	110	
Hg	201	159	No Gas	873.260	ng/l	1.0	1757	800	109.16	90	110	
Tl	205	159	No Gas	42.147	ug/l	0.7	1323951	40	105.37	90	110	
Pb	208	159	No Gas	106.849	ug/l	1.0	4553079	100	106.85	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	267794	0.3	291584.83	91.84	70	120	
Ge	74	No Gas	591074	1.3	618159.76	95.62	70	120	
Rh	103	No Gas	571245	0.7	611266.07	93.45	70	120	
Tb	159	No Gas	1179740	0.6	1244803.35	94.77	70	120	
Bi	209	No Gas	792003	1.8	830364.59	95.38	70	120	
Sc	45	He	111802	1.7	114978.37	97.24	70	120	
Ge	74	He	110374	0.7	112248.35	98.33	70	120	
Rh	103	He	289221	1.6	297145.14	97.33	70	120	
Tb	159	He	628951	0.6	637681.1	98.63	70	120	
Ge	74	HEHe	97440	0.8	98336.1	99.09	70	120	

Ag MRL = 1ppb
Mg LDR = 10,000 ppb.

Initial Calibration Blank (ICB) Report ICPMS6

Sample Name	**0E20067-ICB1**	**Sample Type**	ICB
File Name	015_ICB.d	**Vial #**	1101
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 21:15:39	**Sample QC Pass/Fail**	Pass
Comment	ICB	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	Limit	QC Flag
Be	9	6	No Gas	0.019	ug/l	29.0	67	0.09	
Na	23	45	He	-22.471	ug/l	N/A	24455	45	
Mg	24	45	He	1.289	ug/l	14.3	578	45	
Al	27	45	He	0.773	ug/l	11.3	147	22.5	
K	39	45	He	1.528	ug/l	174.7	40490	45	
Ca	44	45	He	0.403	ug/l	349.2	77	270	
Ti	47	45	He	0.052	ug/l	92.6	6	1.8	
V	51	74	He	-0.559	ug/l	N/A	1548	0.9	
Cr	52	74	He	0.041	ug/l	9.7	484	0.45	
Mn	55	74	He	0.024	ug/l	56.4	162	0.45	
Fe	56	74	He	0.679	ug/l	14.3	5969	22.5	
Co	59	74	He	0.009	ug/l	8.8	77	0.09	
Ni	60	74	He	0.025	ug/l	15.4	113	0.9	
Cu	65	74	He	0.057	ug/l	17.2	204	0.9	
Cu	65	74	No Gas	0.089	ug/l	36.8	764	0.9	
Zn	66	74	He	0.049	ug/l	32.3	86	1.8	
As	75	74	He	-0.006	ug/l	N/A	119	0.45	
Se	78	74	HEHe	0.014	ug/l	107.8	2	0.45	
Mo	95	103	He	0.023	ug/l	34.9	64	0.45	
Ag	109	103	No Gas	0.019	ug/l	12.4	287	0.09	
Cd	111	103	He	0.011	ug/l	48.5	17	0.09	
Cd	111	103	No Gas	0.016	ug/l	46.1	56	0.09	
Sb	123	103	No Gas	0.143	ug/l	7.8	1637	0.45	
Ba	138	159	He	0.026	ug/l	2.4	477	0.45	
Hg	201	159	No Gas	-3.441	ng/l	N/A	26	36	
Tl	205	159	No Gas	0.011	ug/l	10.2	404	0.09	
Pb	208	159	No Gas	0.047	ug/l	8.4	2507	0.09	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	269874	1.9	291584.83	92.55	70	120	
Ge	74	No Gas	581755	1.4	618159.76	94.11	70	120	
Rh	103	No Gas	572604	0.9	611266.07	93.68	70	120	
Tb	159	No Gas	1173206	1.7	1244803.35	94.25	70	120	
Bi	209	No Gas	773370	1.4	830364.59	93.14	70	120	
Sc	45	He	114990	2.2	114978.37	100.01	70	120	
Ge	74	He	112660	3.7	112248.35	100.37	70	120	
Rh	103	He	300697	2.5	297145.14	101.2	70	120	
Tb	159	He	646992	3.3	637681.1	101.46	70	120	
Ge	74	HEHe	97269	1.0	98336.1	98.92	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRL1**	**Sample Type**	CRL1
File Name	016CRL.d	**Vial #**	2101
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 21:20:24	**Sample QC Pass/Fail**	Fail
Comment	A20E188 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	0.192	ug/l	7.9	488	106.67	70	130	
Na	23	45	He	-11.747	ug/l	N/A	29425	-130.52	70	130	CRL1 Failed
Mg	24	45	He	10.535	ug/l	3.7	3357	117.06	70	130	
Al	27	45	He	9.657	ug/l	5.1	1414	107.3	70	130	
K	39	45	He	14.155	ug/l	13.1	43257	157.28	70	130	CRL1 Failed
Ca	44	45	He	58.010	ug/l	14.6	1058	107.43	70	130	
Ti	47	45	He	0.151	ug/l	44.7	16	83.89	70	130	
V	51	74	He	-0.334	ug/l	N/A	2149	-185.56	70	130	CRL1 Failed
Cr	52	74	He	0.242	ug/l	7.9	1143	134.44	70	130	CRL1 Failed
Mn	55	74	He	0.214	ug/l	5.5	574	118.89	70	130	
Fe	56	74	He	9.812	ug/l	2.8	32921	109.02	70	130	
Co	59	74	He	0.202	ug/l	8.1	992	112.22	70	130	
Ni	60	74	He	0.199	ug/l	3.3	318	110.56	70	130	
Cu	65	74	He	0.264	ug/l	10.3	524	146.67	70	130	CRL1 Failed
Cu	65	74	No Gas	0.274	ug/l	7.3	1525	152.22	70	130	CRL1 Failed
Zn	66	74	He	0.248	ug/l	14.3	233	137.78	70	130	CRL1 Failed
As	75	74	He	0.159	ug/l	5.6	232	88.33	70	130	
Se	78	74	HEHe	0.194	ug/l	3.2	16	107.78	70	130	
Mo	95	103	He	0.194	ug/l	15.7	454	107.78	70	130	
Ag	109	103	No Gas	0.123	ug/l	4.1	1715	68.33	70	130	CRL1 Failed
Cd	111	103	He	0.192	ug/l	7.0	253	106.67	70	130	
Cd	111	103	No Gas	0.198	ug/l	2.5	658	110	70	130	
Sb	123	103	No Gas	0.210	ug/l	0.4	2394	116.67	70	130	
Ba	138	159	He	0.199	ug/l	4.3	2359	110.56	70	130	
Hg	201	159	No Gas	0.175	ng/l	626.0	33	2.43	70	130	CRL1 Failed
Tl	205	159	No Gas	0.187	ug/l	1.3	5919	103.89	70	130	
Pb	208	159	No Gas	0.215	ug/l	1.3	9670	119.44	70	130	

Ag R-11, 1ppb due to curve this sequence. All other CRL failures are < MRL - JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	273481	0.9	291584.83	93.79	70	120	
Ge	74	No Gas	584232	0.8	618159.76	94.51	70	120	
Rh	103	No Gas	581395	1.1	611266.07	95.11	70	120	
Tb	159	No Gas	1180516	0.7	1244803.35	94.84	70	120	
Bi	209	No Gas	796298	0.7	830364.59	95.9	70	120	
Sc	45	He	110861	0.1	114978.37	96.42	70	120	
Ge	74	He	108405	1.2	112248.35	96.58	70	120	
Rh	103	He	287583	0.5	297145.14	96.78	70	120	
Tb	159	He	619613	0.5	637681.1	97.17	70	120	
Ge	74	HEHe	95341	0.9	98336.1	96.95	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRL2**	**Sample Type**	CRL2
File Name	017_CRL.d	**Vial #**	2102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 21:25:10	**Sample QC Pass/Fail**	Fail
Comment	A20E189 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	0.942	ug/l	2.1	2305	104.67	70	130	
Na	23	45	He	26.208	ug/l	4.6	50059	58.24	70	130	CRL2 Failed
Mg	24	45	He	47.859	ug/l	2.6	14654	106.35	70	130	
Al	27	45	He	46.304	ug/l	0.7	6663	102.9	70	130	
K	39	45	He	49.499	ug/l	1.4	55012	110	70	130	
Ca	44	45	He	271.137	ug/l	1.2	4695	100.42	70	130	
Ti	47	45	He	0.952	ug/l	14.3	98	105.78	70	130	
V	51	74	He	0.384	ug/l	2.7	4245	42.67	70	130	CRL2 Failed
Cr	52	74	He	0.930	ug/l	2.5	3444	103.33	70	130	
Mn	55	74	He	0.949	ug/l	8.3	2186	105.44	70	130	
Fe	56	74	He	47.010	ug/l	0.6	143281	104.47	70	130	
Co	59	74	He	0.973	ug/l	2.2	4653	108.11	70	130	
Ni	60	74	He	0.908	ug/l	12.0	1166	100.89	70	130	
Cu	65	74	He	0.988	ug/l	4.4	1662	109.78	70	130	
Cu	65	74	No Gas	1.014	ug/l	3.1	4536	112.67	70	130	
Zn	66	74	He	0.964	ug/l	8.1	774	107.11	70	130	
As	75	74	He	0.926	ug/l	0.9	771	102.89	70	130	
Se	78	74	HEHe	0.888	ug/l	14.7	66	98.67	70	130	
Mo	95	103	He	0.900	ug/l	3.4	2084	100	70	130	
Ag	109	103	No Gas	0.703	ug/l	1.9	9595	78.11	70	130	
Cd	111	103	He	0.856	ug/l	5.1	1121	95.11	70	130	
Cd	111	103	No Gas	0.889	ug/l	7.8	2929	98.78	70	130	
Sb	123	103	No Gas	0.946	ug/l	1.1	10342	105.11	70	130	
Ba	138	159	He	0.917	ug/l	2.2	10268	101.89	70	130	
Hg	201	159	No Gas	31.909	ng/l	8.9	96	88.64	70	130	
Tl	205	159	No Gas	0.931	ug/l	2.4	29251	103.44	70	130	
Pb	208	159	No Gas	0.961	ug/l	0.9	41400	106.78	70	130	

CRL failures < MRL - JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	272787	0.6	291584.83	93.55	70	120	
Ge	74	No Gas	583539	0.8	618159.76	94.4	70	120	
Rh	103	No Gas	579168	0.3	611266.07	94.75	70	120	
Tb	159	No Gas	1178155	0.2	1244803.35	94.65	70	120	
Bi	209	No Gas	792833	1.0	830364.59	95.48	70	120	
Sc	45	He	110811	0.5	114978.37	96.38	70	120	
Ge	74	He	108148	0.7	112248.35	96.35	70	120	
Rh	103	He	287592	0.2	297145.14	96.78	70	120	
Tb	159	He	620167	0.3	637681.1	97.25	70	120	
Ge	74	HEHe	95282	0.6	98336.1	96.89	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRL3**	**Sample Type**	CRL3
File Name	018CRL_.d	**Vial #**	2103
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 21:29:54	**Sample QC Pass/Fail**	Pass
Comment	A20E190 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	1.802	ug/l	4.8	4464	100.11	70	130	
Na	23	45	He	74.320	ug/l	5.4	75209	82.58	70	130	
Mg	24	45	He	95.501	ug/l	1.4	28691	106.11	70	130	
Al	27	45	He	93.957	ug/l	2.2	13310	104.4	70	130	
K	39	45	He	96.805	ug/l	3.1	69839	107.56	70	130	
Ca	44	45	He	535.227	ug/l	2.2	9080	99.12	70	130	
Ti	47	45	He	1.604	ug/l	24.7	163	89.11	70	130	
V	51	74	He	1.383	ug/l	4.2	7081	76.83	70	130	
Cr	52	74	He	1.928	ug/l	3.0	6702	107.11	70	130	
Mn	55	74	He	1.858	ug/l	1.3	4131	103.22	70	130	
Fe	56	74	He	93.985	ug/l	1.6	279141	104.43	70	130	
Co	59	74	He	1.961	ug/l	2.5	9226	108.94	70	130	
Ni	60	74	He	1.916	ug/l	2.1	2340	106.44	70	130	
Cu	65	74	He	1.973	ug/l	5.5	3170	109.61	70	130	
Cu	65	74	No Gas	1.969	ug/l	3.2	8659	109.39	70	130	
Zn	66	74	He	1.931	ug/l	6.9	1487	107.28	70	130	
As	75	74	He	1.857	ug/l	2.7	1408	103.17	70	130	
Se	78	74	HEHe	1.810	ug/l	4.8	134	100.56	70	130	
Mo	95	103	He	1.788	ug/l	4.8	4100	99.33	70	130	
Ag	109	103	No Gas	1.498	ug/l	4.3	20948	83.22	70	130	
Cd	111	103	He	1.878	ug/l	1.4	2440	104.33	70	130	
Cd	111	103	No Gas	1.800	ug/l	4.3	6084	100	70	130	
Sb	123	103	No Gas	1.825	ug/l	1.9	20379	101.39	70	130	
Ba	138	159	He	1.882	ug/l	1.9	20788	104.56	70	130	
Hg	201	159	No Gas	65.684	ng/l	2.0	167	91.23	70	130	
Tl	205	159	No Gas	1.786	ug/l	2.3	57803	99.22	70	130	
Pb	208	159	No Gas	1.843	ug/l	2.4	81344	102.39	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	277677	1.7	291584.83	95.23	70	120	
Ge	74	No Gas	599939	1.7	618159.76	97.05	70	120	
Rh	103	No Gas	594981	1.3	611266.07	97.34	70	120	
Tb	159	No Gas	1215006	2.1	1244803.35	97.61	70	120	
Bi	209	No Gas	816660	1.3	830364.59	98.35	70	120	
Sc	45	He	109371	2.3	114978.37	95.12	70	120	
Ge	74	He	106797	2.3	112248.35	95.14	70	120	
Rh	103	He	285400	2.8	297145.14	96.05	70	120	
Tb	159	He	617484	2.4	637681.1	96.83	70	120	
Ge	74	HEHe	95152	0.2	98336.1	96.76	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRL4**	**Sample Type**	CRL4
File Name	019CRL4.d	**Vial #**	2104
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 21:34:39	**Sample QC Pass/Fail**	Pass
Comment	A20E191 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	3.820	ug/l	3.5	9115	106.11	70	130	
Na	23	45	He	171.911	ug/l	2.1	127188	95.51	70	130	
Mg	24	45	He	190.790	ug/l	1.3	56964	105.99	70	130	
Al	27	45	He	189.434	ug/l	1.9	26718	105.24	70	130	
K	39	45	He	192.611	ug/l	2.6	101000	107.01	70	130	
Ca	44	45	He	1092.717	ug/l	1.9	18410	101.18	70	130	
Ti	47	45	He	3.858	ug/l	4.8	390	107.17	70	130	
V	51	74	He	3.223	ug/l	3.0	12507	89.53	70	130	
Cr	52	74	He	3.745	ug/l	0.9	12823	104.03	70	130	
Mn	55	74	He	3.780	ug/l	2.7	8373	105	70	130	
Fe	56	74	He	187.421	ug/l	0.5	558067	104.12	70	130	
Co	59	74	He	3.848	ug/l	2.4	18240	106.89	70	130	
Ni	60	74	He	3.721	ug/l	5.0	4512	103.36	70	130	
Cu	65	74	He	3.955	ug/l	2.5	6308	109.86	70	130	
Cu	65	74	No Gas	3.968	ug/l	2.4	16380	110.22	70	130	
Zn	66	74	He	3.956	ug/l	1.2	3028	109.89	70	130	
As	75	74	He	3.639	ug/l	3.1	2670	101.08	70	130	
Se	78	74	HEHe	3.549	ug/l	2.4	264	98.58	70	130	
Mo	95	103	He	3.598	ug/l	0.3	8216	99.94	70	130	
Ag	109	103	No Gas	3.354	ug/l	2.6	44945	93.17	70	130	
Cd	111	103	He	3.800	ug/l	0.5	4915	105.56	70	130	
Cd	111	103	No Gas	3.631	ug/l	2.9	11766	100.86	70	130	
Sb	123	103	No Gas	3.805	ug/l	3.3	40610	105.69	70	130	
Ba	138	159	He	3.767	ug/l	0.4	41430	104.64	70	130	
Hg	201	159	No Gas	144.864	ng/l	0.6	315	100.6	70	130	
Tl	205	159	No Gas	3.735	ug/l	3.2	115965	103.75	70	130	
Pb	208	159	No Gas	3.814	ug/l	4.0	161007	105.94	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	268202	2.7	291584.83	91.98	70	120	
Ge	74	No Gas	577269	3.0	618159.76	93.39	70	120	
Rh	103	No Gas	570702	2.8	611266.07	93.36	70	120	
Tb	159	No Gas	1166138	2.9	1244803.35	93.68	70	120	
Bi	209	No Gas	785414	3.0	830364.59	94.59	70	120	
Sc	45	He	108990	0.8	114978.37	94.79	70	120	
Ge	74	He	107752	0.6	112248.35	95.99	70	120	
Rh	103	He	284361	0.5	297145.14	95.7	70	120	
Tb	159	He	617136	0.4	637681.1	96.78	70	120	
Ge	74	HEHe	96056	0.5	98336.1	97.68	70	120	

Interference Check Solution A (ICS-A) Report ICPMS6

Sample Name	**0E20067-IFA1**	**Sample Type**	ICSA
File Name	020ICSA.d	**Vial #**	2110
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 21:39:24	**Sample QC Pass/Fail**	Fail
Comment	A20E205	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	ExpValue	QC Flag
Be	9	6	No Gas	0.012	ug/l	55.1	39	0.18	
Na	23	45	He	238652.135	ug/l	9.0	121909368	250000	
Mg	24	45	He	94802.639	ug/l	9.4	26931484	100000	
Al	27	45	He	96964.193	ug/l	9.5	13034736	100000	
K	39	45	He	96626.635	ug/l	9.8	30242489	100000	
Ca	44	45	He	286541.636	ug/l	9.8	4589129	300000	
Ti	47	45	He	1949.877	ug/l	9.3	188082	2000	
V	51	74	He	-0.601	ug/l	N/A	1263	0.9	
Cr	52	74	He	1.273	ug/l	9.3	4245	0.9	
Mn	55	74	He	0.990	ug/l	7.5	2106	0.9	
Fe	56	74	He	243470.012	ug/l	8.3	668407839	250000	
Co	59	74	He	0.698	ug/l	10.3	3090	0.18	ICSA Warning
Ni	60	74	He	0.244	ug/l	24.1	342	0.9	
Cu	65	74	He	0.455	ug/l	11.3	761	0.9	
Cu	65	74	No Gas	3.465	ug/l	9.1	11854	0.9	ICSA Warning
Zn	66	74	He	0.763	ug/l	1.8	578	3.6	
As	75	74	He	0.072	ug/l	30.2	157	0.9	
Se	78	74	HEHe	0.069	ug/l	25.6	6	0.9	
Mo	95	103	He	2082.770	ug/l	8.1	4144578	2000	
Cd	111	103	He	0.989	ug/l	11.2	1117	0.18	ICSA Warning
Cd	111	103	No Gas	0.395	ug/l	22.0	983	0.18	ICSA Warning
Sb	123	103	No Gas	0.185	ug/l	10.5	1603	0.9	
Ba	138	159	He	0.468	ug/l	8.0	5053	0.9	
W	186	159	No Gas	115.033	ug/l	10.3	1282898	100	
Hg	201	159	No Gas	57.531	ng/l	11.4	124	72	
Tl	205	159	No Gas	0.008	ug/l	18.4	247	0.18	
Pb	208	159	No Gas	0.204	ug/l	10.7	7757	0.18	

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05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	213611	9.1	291584.83	73.26	70	120	
Ge	74	No Gas	479155	9.8	618159.76	77.51	70	120	
Rh	103	No Gas	441306	10.1	611266.07	72.2	70	120	
Tb	159	No Gas	1002084	10.1	1244803.35	80.5	70	120	
Bi	209	No Gas	627568	9.6	830364.59	75.58	70	120	
Sc	45	He	104526	8.1	114978.37	90.91	70	120	
Ge	74	He	100401	7.1	112248.35	89.45	70	120	
Rh	103	He	249017	7.3	297145.14	83.8	70	120	
Tb	159	He	591675	8.4	637681.1	92.79	70	120	
Ge	74	HEHe	85275	0.4	98336.1	86.72	70	120	

Interference Check Solution AB (ICS-AB) Report ICPMS6

Sample Name	**0E20067-IFB1**	**Sample Type**	ICSB
File Name	021ICSB.d	**Vial #**	2111
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 21:44:09	**Sample QC Pass/Fail**	Fail
Comment	A20E206	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	ExpValue	Flag
Be	9	6	No Gas	0.006	ug/l	94.2	30	0.18	
Na	23	45	He	251419.734	ug/l	0.5	123804549	250000	
Mg	24	45	He	99801.670	ug/l	0.6	27336155	100000	
Al	27	45	He	102324.910	ug/l	0.8	13263510	100000	
K	39	45	He	101605.228	ug/l	0.2	30668141	100000	
Ca	44	45	He	301769.640	ug/l	0.7	4661218	300000	
Ti	47	45	He	2063.392	ug/l	0.5	191888	2000	
V	51	74	He	208.134	ug/l	0.4	547343	200	
Cr	52	74	He	201.811	ug/l	0.7	604628	200	
Mn	55	74	He	212.022	ug/l	0.5	416476	200	
Fe	56	74	He	255104.451	ug/l	0.6	677272025	250000	
Co	59	74	He	202.257	ug/l	0.9	859038	200	
Ni	60	74	He	198.671	ug/l	0.4	212502	200	
Cu	65	74	He	197.163	ug/l	1.0	277623	200	
Cu	65	74	No Gas	200.448	ug/l	0.8	720663	200	
Zn	66	74	He	95.926	ug/l	0.4	64972	100	
As	75	74	He	101.610	ug/l	0.7	64042	100	
Se	78	74	HEHe	103.843	ug/l	1.1	6835	100	
Mo	95	103	He	2194.422	ug/l	0.1	4175019	2000	
Ag	109	103	No Gas	51.900	ug/l	0.3	575843	50	
Cd	111	103	He	106.032	ug/l	0.2	114334	100	
Cd	111	103	No Gas	103.243	ug/l	0.5	277127	100	
Sb	123	103	No Gas	0.155	ug/l	3.6	1461	0.9	
Ba	138	159	He	1.359	ug/l	1.4	13799	100	ICSB Warning
W	186	159	No Gas	109.324	ug/l	2.4	1298951	100	
Hg	201	159	No Gas	2208.574	ng/l	0.5	3947	2000	
Tl	205	159	No Gas	0.005	ug/l	21.9	200	0.18	
Pb	208	159	No Gas	0.189	ug/l	2.3	7684	0.18	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	224487	0.2	291584.83	76.99	70	120	
Ge	74	No Gas	514971	0.4	618159.76	83.31	70	120	
Rh	103	No Gas	472654	0.4	611266.07	77.32	70	120	
Tb	159	No Gas	1060051	0.7	1244803.35	85.16	70	120	
Bi	209	No Gas	665858	0.8	830364.59	80.19	70	120	
Sc	45	He	100277	0.8	114978.37	87.21	70	120	
Ge	74	He	96714	0.1	112248.35	86.16	70	120	
Rh	103	He	237149	1.0	297145.14	79.81	70	120	
Tb	159	He	565587	0.3	637681.1	88.69	70	120	
Ge	74	HEHe	85541	0.3	98336.1	86.99	70	120	

Continuing Calibration Verification (CCV) Report ICPMS6

Sample Name	**0E20067-CCV1**	**Sample Type**	CCV
File Name	032_CCV.d	**Vial #**	1102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 22:36:18	**Sample QC Pass/Fail**	Fail
Comment	A20E094 JPB 05/20	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Low	High	Flag
Be	9	6	No Gas	42.872	ug/l	0.2	101428	40	107.18	90	110	
Na	23	45	He	4252.712	ug/l	1.4	2481347	4000	106.32	90	110	
Mg	24	45	He	4453.130	ug/l	0.3	1423887	4000	111.33	90	110	> +/- 10%
Al	27	45	He	4274.276	ug/l	0.6	646728	4000	106.86	90	110	
K	39	45	He	4298.965	ug/l	0.9	1553493	4000	107.47	90	110	
Ca	44	45	He	4230.892	ug/l	0.8	76347	4000	105.77	90	110	
Ti	47	45	He	102.742	ug/l	0.9	11152	100	102.74	90	110	
V	51	74	He	103.075	ug/l	1.0	322827	100	103.08	90	110	
Cr	52	74	He	105.474	ug/l	0.3	374573	100	105.47	90	110	
Mn	55	74	He	107.258	ug/l	0.9	249680	100	107.26	90	110	
Fe	56	74	He	4306.033	ug/l	1.2	13548634	4000	107.65	90	110	
Co	59	74	He	108.598	ug/l	0.6	546509	100	108.6	90	110	
Ni	60	74	He	109.815	ug/l	0.9	139204	100	109.82	90	110	
Cu	65	74	He	108.215	ug/l	0.7	180588	100	108.21	90	110	
Cu	65	74	No Gas	107.310	ug/l	0.2	455793	100	107.31	90	110	
Zn	66	74	He	101.729	ug/l	0.6	81634	100	101.73	90	110	
As	75	74	He	101.763	ug/l	0.7	75992	100	101.76	90	110	
Se	78	74	HEHe	41.085	ug/l	1.6	3185	40	102.71	90	110	
Mo	95	103	He	41.055	ug/l	0.8	96951	40	102.64	90	110	
Ag	109	103	No Gas	41.392	ug/l	0.6	565233	40	103.48	90	110	
Cd	111	103	He	100.951	ug/l	1.0	135103	100	100.95	90	110	
Cd	111	103	No Gas	99.180	ug/l	0.4	327655	100	99.18	90	110	
Sb	123	103	No Gas	42.036	ug/l	1.9	456363	40	105.09	90	110	
Ba	138	159	He	106.502	ug/l	0.8	1189078	100	106.5	90	110	
Hg	201	159	No Gas	847.850	ng/l	2.2	1693	800	105.98	90	110	
Tl	205	159	No Gas	41.113	ug/l	0.6	1281085	40	102.78	90	110	
Pb	208	159	No Gas	105.292	ug/l	0.1	4450786	100	105.29	90	110	

Mg Q-41 - JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	266285	0.6	291584.83	91.32	70	120	
Ge	74	No Gas	608121	0.4	618159.76	98.38	70	120	
Rh	103	No Gas	581725	0.6	611266.07	95.17	70	120	
Tb	159	No Gas	1170256	0.2	1244803.35	94.01	70	120	
Bi	209	No Gas	767736	0.7	830364.59	92.46	70	120	
Sc	45	He	117044	0.5	114978.37	101.8	70	120	
Ge	74	He	114590	0.5	112248.35	102.09	70	120	
Rh	103	He	294328	0.1	297145.14	99.05	70	120	
Tb	159	He	629044	0.4	637681.1	98.65	70	120	
Ge	74	HEHe	100736	1.2	98336.1	102.44	70	120	

Continuing Calibration Blank (CCB) Report ICPMS6

Sample Name	**0E20067-CCB1**	**Sample Type**	CCB
File Name	033_CCB.d	**Vial #**	1101
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 22:41:00	**Sample QC Pass/Fail**	Pass
Comment	CCB	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	Limit	QC Flag
Be	9	6	No Gas	0.012	ug/l	56.1	48	0.09	
Na	23	45	He	-30.189	ug/l	N/A	20885	45	
Mg	24	45	He	1.045	ug/l	2.3	521	45	
Al	27	45	He	0.445	ug/l	15.6	102	22.5	
K	39	45	He	-1.298	ug/l	N/A	41057	45	
Ca	44	45	He	0.483	ug/l	105.2	82	270	
Ti	47	45	He	0.040	ug/l	40.5	4	1.8	
V	51	74	He	-0.668	ug/l	N/A	1257	0.9	
Cr	52	74	He	0.028	ug/l	28.3	452	0.45	
Mn	55	74	He	-0.006	ug/l	N/A	96	0.45	
Fe	56	74	He	1.152	ug/l	17.1	7658	22.5	
Co	59	74	He	0.006	ug/l	33.3	62	0.09	
Ni	60	74	He	-0.012	ug/l	N/A	70	0.9	
Cu	65	74	He	0.021	ug/l	46.2	150	0.9	
Cu	65	74	No Gas	0.049	ug/l	40.5	626	0.9	
Zn	66	74	He	0.025	ug/l	45.7	69	1.8	
As	75	74	He	-0.043	ug/l	N/A	95	0.45	
Se	78	74	HEHe	0.019	ug/l	56.9	3	0.45	
Mo	95	103	He	0.034	ug/l	14.6	91	0.45	
Ag	109	103	No Gas	0.018	ug/l	12.8	284	0.09	
Cd	111	103	He	0.008	ug/l	80.7	13	0.09	
Cd	111	103	No Gas	0.019	ug/l	22.0	68	0.09	
Sb	123	103	No Gas	0.123	ug/l	4.6	1470	0.45	
Ba	138	159	He	0.015	ug/l	31.5	342	0.45	
Hg	201	159	No Gas	-5.322	ng/l	N/A	22	36	
Tl	205	159	No Gas	0.009	ug/l	11.8	339	0.09	
Pb	208	159	No Gas	0.049	ug/l	7.6	2550	0.09	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	266280	1.1	291584.83	91.32	70	120	
Ge	74	No Gas	600829	0.3	618159.76	97.2	70	120	
Rh	103	No Gas	588262	0.9	611266.07	96.24	70	120	
Tb	159	No Gas	1163455	1.6	1244803.35	93.46	70	120	
Bi	209	No Gas	762652	1.4	830364.59	91.85	70	120	
Sc	45	He	119506	2.8	114978.37	103.94	70	120	
Ge	74	He	116145	2.3	112248.35	103.47	70	120	
Rh	103	He	302224	2.4	297145.14	101.71	70	120	
Tb	159	He	633012	2.5	637681.1	99.27	70	120	
Ge	74	HEHe	101266	1.2	98336.1	102.98	70	120	

Continuing Calibration Verification (CCV) Report ICPMS6

Sample Name	**0E20067-CCV2**	**Sample Type**	CCV
File Name	044_CCV.d	**Vial #**	1102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 23:33:04	**Sample QC Pass/Fail**	Fail
Comment	A20E094 JPB 05/20	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Low	High	Flag
Be	9	6	No Gas	42.525	ug/l	2.5	97643	40	106.31	90	110	
Na	23	45	He	4243.619	ug/l	0.1	2393699	4000	106.09	90	110	
Mg	24	45	He	4435.046	ug/l	0.1	1370855	4000	110.88	90	110	> +/- 10%
Al	27	45	He	4282.426	ug/l	0.5	626371	4000	107.06	90	110	
K	39	45	He	4273.202	ug/l	0.7	1492976	4000	106.83	90	110	
Ca	44	45	He	4198.626	ug/l	2.8	73244	4000	104.97	90	110	
Ti	47	45	He	101.431	ug/l	0.8	10643	100	101.43	90	110	
V	51	74	He	103.835	ug/l	1.2	309929	100	103.84	90	110	
Cr	52	74	He	105.758	ug/l	0.6	357959	100	105.76	90	110	
Mn	55	74	He	107.925	ug/l	0.7	239447	100	107.93	90	110	
Fe	56	74	He	4339.209	ug/l	0.4	13012851	4000	108.48	90	110	
Co	59	74	He	108.876	ug/l	0.9	522191	100	108.88	90	110	
Ni	60	74	He	110.434	ug/l	0.9	133423	100	110.43	90	110	> +/- 10%
Cu	65	74	He	107.969	ug/l	0.8	171726	100	107.97	90	110	
Cu	65	74	No Gas	107.707	ug/l	1.8	441744	100	107.71	90	110	
Zn	66	74	He	102.200	ug/l	0.7	78167	100	102.2	90	110	
As	75	74	He	102.147	ug/l	0.7	72701	100	102.15	90	110	
Se	78	74	HEHe	40.440	ug/l	1.1	3025	40	101.1	90	110	
Mo	95	103	He	41.252	ug/l	0.1	93720	40	103.13	90	110	
Ag	109	103	No Gas	41.772	ug/l	2.1	556358	40	104.43	90	110	
Cd	111	103	He	102.238	ug/l	0.1	131634	100	102.24	90	110	
Cd	111	103	No Gas	98.720	ug/l	2.4	318091	100	98.72	90	110	
Sb	123	103	No Gas	42.223	ug/l	2.9	447071	40	105.56	90	110	
Ba	138	159	He	106.409	ug/l	0.8	1164284	100	106.41	90	110	
Hg	201	159	No Gas	836.905	ng/l	2.6	1659	800	104.61	90	110	
Tl	205	159	No Gas	40.858	ug/l	1.2	1264123	40	102.14	90	110	
Pb	208	159	No Gas	104.937	ug/l	2.0	4404024	100	104.94	90	110	

Mg Q-41
Ni Rounds down in LIMS
- JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	258512	1.8	291584.83	88.66	70	120	
Ge	74	No Gas	587283	1.1	618159.76	95	70	120	
Rh	103	No Gas	567527	2.0	611266.07	92.84	70	120	
Tb	159	No Gas	1162053	1.2	1244803.35	93.35	70	120	
Bi	209	No Gas	757131	1.4	830364.59	91.18	70	120	
Sc	45	He	113144	0.4	114978.37	98.4	70	120	
Ge	74	He	109216	0.8	112248.35	97.3	70	120	
Rh	103	He	283162	0.5	297145.14	95.29	70	120	
Tb	159	He	616469	0.9	637681.1	96.67	70	120	
Ge	74	HEHe	97200	1.3	98336.1	98.84	70	120	

Continuing Calibration Blank (CCB) Report ICPMS6

Sample Name	**0E20067-CCB2**	**Sample Type**	CCB
File Name	045_CCB.d	**Vial #**	1101
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 23:37:46	**Sample QC Pass/Fail**	Pass
Comment	CCB	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	Limit	QC Flag
Be	9	6	No Gas	0.013	ug/l	22.9	50	0.09	
Na	23	45	He	-35.643	ug/l	N/A	17050	45	
Mg	24	45	He	0.916	ug/l	9.4	461	45	
Al	27	45	He	0.403	ug/l	42.3	92	22.5	
K	39	45	He	-1.438	ug/l	N/A	39521	45	
Ca	44	45	He	0.569	ug/l	181.7	80	270	
Ti	47	45	He	0.094	ug/l	33.6	10	1.8	
V	51	74	He	-0.537	ug/l	N/A	1608	0.9	
Cr	52	74	He	0.045	ug/l	23.8	496	0.45	
Mn	55	74	He	-0.010	ug/l	N/A	84	0.45	
Fe	56	74	He	0.916	ug/l	8.0	6669	22.5	
Co	59	74	He	0.005	ug/l	40.9	58	0.09	
Ni	60	74	He	0.001	ug/l	1332.9	83	0.9	
Cu	65	74	He	0.015	ug/l	142.2	134	0.9	
Cu	65	74	No Gas	0.018	ug/l	98.9	487	0.9	
Zn	66	74	He	0.002	ug/l	1421.9	48	1.8	
As	75	74	He	-0.032	ug/l	N/A	100	0.45	
Se	78	74	HEHe	0.019	ug/l	111.9	3	0.45	
Mo	95	103	He	0.028	ug/l	26.2	72	0.45	
Ag	109	103	No Gas	0.016	ug/l	17.0	254	0.09	
Cd	111	103	He	0.018	ug/l	35.6	26	0.09	
Cd	111	103	No Gas	0.013	ug/l	54.3	47	0.09	
Sb	123	103	No Gas	0.137	ug/l	4.9	1588	0.45	
Ba	138	159	He	0.015	ug/l	23.0	336	0.45	
Hg	201	159	No Gas	-7.673	ng/l	N/A	17	36	
Tl	205	159	No Gas	0.012	ug/l	10.9	414	0.09	
Pb	208	159	No Gas	0.041	ug/l	9.9	2168	0.09	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	263404	1.2	291584.83	90.34	70	120	
Ge	74	No Gas	589455	0.4	618159.76	95.36	70	120	
Rh	103	No Gas	578429	0.7	611266.07	94.63	70	120	
Tb	159	No Gas	1147403	0.3	1244803.35	92.18	70	120	
Bi	209	No Gas	749614	0.7	830364.59	90.28	70	120	
Sc	45	He	115121	0.4	114978.37	100.12	70	120	
Ge	74	He	112006	1.0	112248.35	99.78	70	120	
Rh	103	He	292055	0.3	297145.14	98.29	70	120	
Tb	159	He	613961	0.8	637681.1	96.28	70	120	
Ge	74	HEHe	98567	1.3	98336.1	100.23	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRL5**	**Sample Type**	CRL1
File Name	046CRL.d	**Vial #**	2101
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 23:42:31	**Sample QC Pass/Fail**	Fail
Comment	A20E188 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	0.177	ug/l	4.2	436	98.33	70	130	
Na	23	45	He	-22.520	ug/l	N/A	25507	-250.22	70	130	CRL1 Failed
Mg	24	45	He	10.252	ug/l	0.8	3545	113.91	70	130	
Al	27	45	He	9.866	ug/l	4.2	1566	109.62	70	130	
K	39	45	He	4.304	ug/l	106.8	43277	47.82	70	130	CRL1 Failed
Ca	44	45	He	52.911	ug/l	4.2	1051	97.98	70	130	
Ti	47	45	He	0.240	ug/l	12.9	27	133.33	70	130	CRL1 Failed
V	51	74	He	-0.372	ug/l	N/A	2141	-206.67	70	130	CRL1 Failed
Cr	52	74	He	0.227	ug/l	2.2	1148	126.11	70	130	
Mn	55	74	He	0.205	ug/l	9.9	581	113.89	70	130	
Fe	56	74	He	10.549	ug/l	4.0	36889	117.21	70	130	
Co	59	74	He	0.201	ug/l	14.9	1036	111.67	70	130	
Ni	60	74	He	0.191	ug/l	12.1	324	106.11	70	130	
Cu	65	74	He	0.209	ug/l	13.9	459	116.11	70	130	
Cu	65	74	No Gas	0.244	ug/l	6.2	1431	135.56	70	130	CRL1 Failed
Zn	66	74	He	0.211	ug/l	11.8	216	117.22	70	130	
As	75	74	He	0.153	ug/l	4.4	239	85	70	130	
Se	78	74	HEHe	0.201	ug/l	15.1	17	111.67	70	130	
Mo	95	103	He	0.182	ug/l	7.1	447	101.11	70	130	
Ag	109	103	No Gas	0.172	ug/l	3.0	2395	95.56	70	130	
Cd	111	103	He	0.182	ug/l	7.2	251	101.11	70	130	
Cd	111	103	No Gas	0.187	ug/l	12.5	625	103.89	70	130	
Sb	123	103	No Gas	0.215	ug/l	7.0	2468	119.44	70	130	
Ba	138	159	He	0.199	ug/l	2.5	2396	110.56	70	130	
Hg	201	159	No Gas	-3.338	ng/l	N/A	26	-46.36	70	130	CRL1 Failed
Tl	205	159	No Gas	0.182	ug/l	3.2	5655	101.11	70	130	
Pb	208	159	No Gas	0.218	ug/l	3.4	9592	121.11	70	130	

All CRL failures < MRL - JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	264270	1.3	291584.83	90.63	70	120	
Ge	74	No Gas	595729	0.9	618159.76	96.37	70	120	
Rh	103	No Gas	584707	1.5	611266.07	95.66	70	120	
Tb	159	No Gas	1155259	1.2	1244803.35	92.81	70	120	
Bi	209	No Gas	750395	1.3	830364.59	90.37	70	120	
Sc	45	He	120123	3.3	114978.37	104.47	70	120	
Ge	74	He	113956	3.3	112248.35	101.52	70	120	
Rh	103	He	300996	3.4	297145.14	101.3	70	120	
Tb	159	He	628653	3.4	637681.1	98.58	70	120	
Ge	74	HEHe	99018	1.3	98336.1	100.69	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRL6**	**Sample Type**	CRL2
File Name	047_CRL.d	**Vial #**	2102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 23:47:17	**Sample QC Pass/Fail**	Fail
Comment	A20E189 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	0.948	ug/l	3.4	2254	105.33	70	130	
Na	23	45	He	17.464	ug/l	4.5	47021	38.81	70	130	CRL2 Failed
Mg	24	45	He	47.920	ug/l	4.9	15222	106.49	70	130	
Al	27	45	He	48.906	ug/l	3.0	7305	108.68	70	130	
K	39	45	He	47.743	ug/l	5.2	56485	106.1	70	130	
Ca	44	45	He	284.538	ug/l	6.5	5110	105.38	70	130	
Ti	47	45	He	0.906	ug/l	15.9	97	100.67	70	130	
V	51	74	He	0.415	ug/l	5.0	4493	46.11	70	130	CRL2 Failed
Cr	52	74	He	0.962	ug/l	3.1	3676	106.89	70	130	
Mn	55	74	He	0.917	ug/l	0.3	2191	101.89	70	130	
Fe	56	74	He	47.592	ug/l	0.4	150197	105.76	70	130	
Co	59	74	He	0.962	ug/l	4.2	4763	106.89	70	130	
Ni	60	74	He	0.928	ug/l	7.7	1231	103.11	70	130	
Cu	65	74	He	0.942	ug/l	1.8	1647	104.67	70	130	
Cu	65	74	No Gas	0.985	ug/l	4.5	4537	109.44	70	130	
Zn	66	74	He	0.975	ug/l	13.1	811	108.33	70	130	
As	75	74	He	0.859	ug/l	1.6	749	95.44	70	130	
Se	78	74	HEHe	0.899	ug/l	1.8	70	99.89	70	130	
Mo	95	103	He	0.891	ug/l	1.3	2100	99	70	130	
Ag	109	103	No Gas	0.880	ug/l	3.5	12108	97.78	70	130	
Cd	111	103	He	0.934	ug/l	7.6	1247	103.78	70	130	
Cd	111	103	No Gas	0.816	ug/l	2.3	2713	90.67	70	130	
Sb	123	103	No Gas	0.931	ug/l	2.7	10271	103.44	70	130	
Ba	138	159	He	0.940	ug/l	1.6	10450	104.44	70	130	
Hg	201	159	No Gas	26.550	ng/l	12.3	83	73.75	70	130	
Tl	205	159	No Gas	0.887	ug/l	3.0	27353	98.56	70	130	
Pb	208	159	No Gas	0.939	ug/l	1.5	39664	104.33	70	130	

CRL failures < MRL - JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	265261	1.3	291584.83	90.97	70	120	
Ge	74	No Gas	599241	0.8	618159.76	96.94	70	120	
Rh	103	No Gas	584534	1.2	611266.07	95.63	70	120	
Tb	159	No Gas	1155747	1.4	1244803.35	92.85	70	120	
Bi	209	No Gas	753962	1.0	830364.59	90.8	70	120	
Sc	45	He	115017	1.4	114978.37	100.03	70	120	
Ge	74	He	112018	0.2	112248.35	99.79	70	120	
Rh	103	He	292859	0.5	297145.14	98.56	70	120	
Tb	159	He	616360	0.1	637681.1	96.66	70	120	
Ge	74	HEHe	98988	1.5	98336.1	100.66	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRL7**	**Sample Type**	CRL3
File Name	048CRL_.d	**Vial #**	2103
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 23:52:03	**Sample QC Pass/Fail**	Fail
Comment	A20E190 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	1.909	ug/l	4.7	4541	106.06	70	130	
Na	23	45	He	62.086	ug/l	4.8	72987	68.98	70	130	CRL3 Failed
Mg	24	45	He	94.183	ug/l	0.8	30086	104.65	70	130	
Al	27	45	He	93.592	ug/l	0.9	14098	103.99	70	130	
K	39	45	He	91.491	ug/l	2.0	72396	101.66	70	130	
Ca	44	45	He	542.322	ug/l	1.4	9782	100.43	70	130	
Ti	47	45	He	1.826	ug/l	13.4	197	101.44	70	130	
V	51	74	He	1.310	ug/l	4.1	7222	72.78	70	130	
Cr	52	74	He	1.939	ug/l	1.4	7082	107.72	70	130	
Mn	55	74	He	1.820	ug/l	2.8	4255	101.11	70	130	
Fe	56	74	He	93.134	ug/l	1.0	290931	103.48	70	130	
Co	59	74	He	1.904	ug/l	2.6	9420	105.78	70	130	
Ni	60	74	He	1.867	ug/l	3.5	2400	103.72	70	130	
Cu	65	74	He	1.952	ug/l	3.8	3302	108.44	70	130	
Cu	65	74	No Gas	2.014	ug/l	2.4	8874	111.89	70	130	
Zn	66	74	He	1.841	ug/l	5.8	1493	102.28	70	130	
As	75	74	He	1.780	ug/l	1.9	1424	98.89	70	130	
Se	78	74	HEHe	1.734	ug/l	1.8	134	96.33	70	130	
Mo	95	103	He	1.736	ug/l	0.8	4074	96.44	70	130	
Ag	109	103	No Gas	1.767	ug/l	3.3	24434	98.17	70	130	
Cd	111	103	He	1.801	ug/l	2.0	2394	100.06	70	130	
Cd	111	103	No Gas	1.692	ug/l	1.8	5659	94	70	130	
Sb	123	103	No Gas	1.822	ug/l	1.6	20115	101.22	70	130	
Ba	138	159	He	1.894	ug/l	1.0	20767	105.22	70	130	
Hg	201	159	No Gas	63.656	ng/l	2.2	155	88.41	70	130	
Tl	205	159	No Gas	1.794	ug/l	1.8	55153	99.67	70	130	
Pb	208	159	No Gas	1.850	ug/l	2.2	77544	102.78	70	130	

Na R-11
Raise MRL to 200 ppb for bracketed samples.

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	266721	1.0	291584.83	91.47	70	120	
Ge	74	No Gas	601353	1.0	618159.76	97.28	70	120	
Rh	103	No Gas	588320	2.0	611266.07	96.25	70	120	
Tb	159	No Gas	1153854	2.1	1244803.35	92.69	70	120	
Bi	209	No Gas	766525	2.0	830364.59	92.31	70	120	
Sc	45	He	116269	1.7	114978.37	101.12	70	120	
Ge	74	He	112289	0.5	112248.35	100.04	70	120	
Rh	103	He	292030	0.5	297145.14	98.28	70	120	
Tb	159	He	612913	0.4	637681.1	96.12	70	120	
Ge	74	HEHe	99128	1.1	98336.1	100.81	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRL8**	**Sample Type**	CRL4
File Name	049CRL4.d	**Vial #**	2104
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/20/2020 23:56:47	**Sample QC Pass/Fail**	Pass
Comment	A20E191 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	3.855	ug/l	0.4	9152	107.08	70	130	
Na	23	45	He	157.848	ug/l	0.6	126218	87.69	70	130	
Mg	24	45	He	185.543	ug/l	0.7	58433	103.08	70	130	
Al	27	45	He	186.058	ug/l	1.6	27678	103.37	70	130	
K	39	45	He	184.363	ug/l	1.6	103681	102.42	70	130	
Ca	44	45	He	1068.870	ug/l	0.8	18995	98.97	70	130	
Ti	47	45	He	3.732	ug/l	6.2	398	103.67	70	130	
V	51	74	He	3.223	ug/l	2.7	12843	89.53	70	130	
Cr	52	74	He	3.849	ug/l	1.6	13523	106.92	70	130	
Mn	55	74	He	3.731	ug/l	2.0	8487	103.64	70	130	
Fe	56	74	He	187.279	ug/l	0.2	572642	104.04	70	130	
Co	59	74	He	3.864	ug/l	1.4	18808	107.33	70	130	
Ni	60	74	He	3.836	ug/l	2.8	4774	106.56	70	130	
Cu	65	74	He	3.878	ug/l	0.9	6355	107.72	70	130	
Cu	65	74	No Gas	3.827	ug/l	0.9	16485	106.31	70	130	
Zn	66	74	He	3.868	ug/l	2.6	3041	107.44	70	130	
As	75	74	He	3.717	ug/l	1.1	2798	103.25	70	130	
Se	78	74	HEHe	3.622	ug/l	3.6	274	100.61	70	130	
Mo	95	103	He	3.544	ug/l	2.3	8253	98.44	70	130	
Ag	109	103	No Gas	3.550	ug/l	1.4	48888	98.61	70	130	
Cd	111	103	He	3.718	ug/l	1.8	4904	103.28	70	130	
Cd	111	103	No Gas	3.603	ug/l	2.5	11999	100.08	70	130	
Sb	123	103	No Gas	3.608	ug/l	3.1	39586	100.22	70	130	
Ba	138	159	He	3.734	ug/l	1.5	41164	103.72	70	130	
Hg	201	159	No Gas	136.250	ng/l	6.0	300	94.62	70	130	
Tl	205	159	No Gas	3.538	ug/l	2.4	110656	98.28	70	130	
Pb	208	159	No Gas	3.629	ug/l	2.1	154391	100.81	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	266633	1.3	291584.83	91.44	70	120	
Ge	74	No Gas	601616	1.4	618159.76	97.32	70	120	
Rh	103	No Gas	586395	1.5	611266.07	95.93	70	120	
Tb	159	No Gas	1174429	1.9	1244803.35	94.35	70	120	
Bi	209	No Gas	771804	2.0	830364.59	92.95	70	120	
Sc	45	He	114952	0.5	114978.37	99.98	70	120	
Ge	74	He	110648	0.4	112248.35	98.57	70	120	
Rh	103	He	290016	0.4	297145.14	97.6	70	120	
Tb	159	He	618590	1.1	637681.1	97.01	70	120	
Ge	74	HEHe	97925	1.3	98336.1	99.58	70	120	

Continuing Calibration Verification (CCV) Report ICPMS6

Sample Name	**0E20067-CCV3**	**Sample Type**	CCV
File Name	060_CCV.d	**Vial #**	1102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 00:48:57	**Sample QC Pass/Fail**	Fail
Comment	A20E094 JPB 05/20	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Low	High	Flag
Be	9	6	No Gas	42.393	ug/l	3.5	98322	40	105.98	90	110	
Na	23	45	He	4659.426	ug/l	13.4	2314158	4000	116.49	90	110	> +/- 10%
Mg	24	45	He	4852.402	ug/l	11.4	1324403	4000	121.31	90	110	> +/- 10%
Al	27	45	He	4695.719	ug/l	12.6	605892	4000	117.39	90	110	> +/- 10%
K	39	45	He	4660.111	ug/l	13.9	1431975	4000	116.5	90	110	> +/- 10%
Ca	44	45	He	4617.847	ug/l	13.8	70987	4000	115.45	90	110	> +/- 10%
Ti	47	45	He	110.526	ug/l	13.8	10220	100	110.53	90	110	> +/- 10%
V	51	74	He	111.493	ug/l	13.0	298866	100	111.49	90	110	> +/- 10%
Cr	52	74	He	113.376	ug/l	13.2	344752	100	113.38	90	110	> +/- 10%
Mn	55	74	He	115.943	ug/l	12.8	231188	100	115.94	90	110	> +/- 10%
Fe	56	74	He	4675.116	ug/l	12.6	12602506	4000	116.88	90	110	> +/- 10%
Co	59	74	He	116.163	ug/l	12.9	500712	100	116.16	90	110	> +/- 10%
Ni	60	74	He	117.873	ug/l	12.4	128030	100	117.87	90	110	> +/- 10%
Cu	65	74	He	115.239	ug/l	12.2	164808	100	115.24	90	110	> +/- 10%
Cu	65	74	No Gas	107.466	ug/l	3.2	432106	100	107.47	90	110	
Zn	66	74	He	109.740	ug/l	12.7	75437	100	109.74	90	110	
As	75	74	He	107.561	ug/l	13.0	68789	100	107.56	90	110	
Se	78	74	HEHe	42.291	ug/l	1.2	3042	40	105.73	90	110	
Mo	95	103	He	44.632	ug/l	13.2	91220	40	111.58	90	110	> +/- 10%
Ag	109	103	No Gas	41.466	ug/l	2.8	545791	40	103.66	90	110	
Cd	111	103	He	110.123	ug/l	12.5	127619	100	110.12	90	110	> +/- 10%
Cd	111	103	No Gas	99.679	ug/l	2.8	317410	100	99.68	90	110	
Sb	123	103	No Gas	42.779	ug/l	3.4	447634	40	106.95	90	110	
Ba	138	159	He	113.314	ug/l	12.7	1142326	100	113.31	90	110	> +/- 10%
Hg	201	159	No Gas	875.965	ng/l	5.0	1749	800	109.5	90	110	
Tl	205	159	No Gas	41.837	ug/l	4.0	1305046	40	104.59	90	110	
Pb	208	159	No Gas	107.061	ug/l	4.0	4530341	100	107.06	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	261209	2.8	291584.83	89.58	70	120	
Ge	74	No Gas	576108	3.6	618159.76	93.2	70	120	
Rh	103	No Gas	561059	3.4	611266.07	91.79	70	120	
Tb	159	No Gas	1172766	4.1	1244803.35	94.21	70	120	
Bi	209	No Gas	781584	2.6	830364.59	94.13	70	120	
Sc	45	He	100831	12.1	114978.37	87.7	70	120	
Ge	74	He	99165	11.9	112248.35	88.34	70	120	
Rh	103	He	257531	12.4	297145.14	86.67	70	120	
Tb	159	He	573956	12.3	637681.1	90.01	70	120	
Ge	74	HEHe	93462	0.7	98336.1	95.04	70	120	

Many Q-41 in He mode. Slight RSD issue pushing high but within our criteria for RSD acceptance - JPB 05/21/20

Continuing Calibration Blank (CCB) Report ICPMS6

Sample Name	**0E20067-CCB3**	**Sample Type**	CCB
File Name	061_CCB.d	**Vial #**	1101
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 00:53:39	**Sample QC Pass/Fail**	Pass
Comment	CCB	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	Limit	QC Flag
Be	9	6	No Gas	0.009	ug/l	59.9	40	0.09	
Na	23	45	He	-25.674	ug/l	N/A	21187	45	
Mg	24	45	He	1.036	ug/l	21.5	466	45	
Al	27	45	He	0.146	ug/l	86.4	50	22.5	
K	39	45	He	-2.402	ug/l	N/A	36600	45	
Ca	44	45	He	0.272	ug/l	659.8	70	270	
Ti	47	45	He	0.022	ug/l	173.2	2	1.8	
V	51	74	He	0.214	ug/l	24.8	3617	0.9	
Cr	52	74	He	0.045	ug/l	15.8	463	0.45	
Mn	55	74	He	0.011	ug/l	85.1	122	0.45	
Fe	56	74	He	0.324	ug/l	5.4	4514	22.5	
Co	59	74	He	0.009	ug/l	60.3	72	0.09	
Ni	60	74	He	-0.016	ug/l	N/A	58	0.9	
Cu	65	74	He	0.001	ug/l	1709.7	104	0.9	
Cu	65	74	No Gas	0.053	ug/l	34.4	603	0.9	
Zn	66	74	He	0.003	ug/l	439.8	46	1.8	
As	75	74	He	0.048	ug/l	35.3	148	0.45	
Se	78	74	HEHe	0.016	ug/l	17.3	3	0.45	
Mo	95	103	He	0.023	ug/l	4.1	59	0.45	
Ag	109	103	No Gas	0.020	ug/l	4.6	299	0.09	
Cd	111	103	He	0.018	ug/l	22.4	24	0.09	
Cd	111	103	No Gas	0.018	ug/l	25.3	62	0.09	
Sb	123	103	No Gas	0.152	ug/l	7.0	1703	0.45	
Ba	138	159	He	0.010	ug/l	6.8	277	0.45	
Hg	201	159	No Gas	-5.349	ng/l	N/A	21	36	
Tl	205	159	No Gas	0.010	ug/l	14.1	363	0.09	
Pb	208	159	No Gas	0.029	ug/l	9.0	1677	0.09	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	261440	0.3	291584.83	89.66	70	120	
Ge	74	No Gas	565251	0.5	618159.76	91.44	70	120	
Rh	103	No Gas	560717	1.0	611266.07	91.73	70	120	
Tb	159	No Gas	1140603	0.3	1244803.35	91.63	70	120	
Bi	209	No Gas	768284	0.9	830364.59	92.52	70	120	
Sc	45	He	107522	0.8	114978.37	93.51	70	120	
Ge	74	He	104306	0.5	112248.35	92.92	70	120	
Rh	103	He	277997	0.4	297145.14	93.56	70	120	
Tb	159	He	597010	0.9	637681.1	93.62	70	120	
Ge	74	HEHe	93938	1.0	98336.1	95.53	70	120	

Continuing Calibration Verification (CCV) Report ICPMS6

Sample Name	**0E20067-CCV4**	**Sample Type**	CCV
File Name	072_CCV.d	**Vial #**	1102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 01:45:48	**Sample QC Pass/Fail**	Fail
Comment	A20E094 JPB 05/20	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Low	High	Flag
Be	9	6	No Gas	41.263	ug/l	1.3	95019	40	103.16	90	110	
Na	23	45	He	4187.414	ug/l	0.6	2221281	4000	104.69	90	110	
Mg	24	45	He	4363.252	ug/l	0.5	1268085	4000	109.08	90	110	
Al	27	45	He	4212.941	ug/l	0.6	579387	4000	105.32	90	110	
K	39	45	He	4183.520	ug/l	1.2	1375070	4000	104.59	90	110	
Ca	44	45	He	4152.479	ug/l	0.5	68109	4000	103.81	90	110	
Ti	47	45	He	102.191	ug/l	1.6	10083	100	102.19	90	110	
V	51	74	He	101.274	ug/l	0.5	286942	100	101.27	90	110	
Cr	52	74	He	103.099	ug/l	0.4	331170	100	103.1	90	110	
Mn	55	74	He	105.779	ug/l	0.1	222725	100	105.78	90	110	
Fe	56	74	He	4250.462	ug/l	1.1	12096258	4000	106.26	90	110	
Co	59	74	He	105.197	ug/l	0.6	478819	100	105.2	90	110	
Ni	60	74	He	106.214	ug/l	0.4	121783	100	106.21	90	110	
Cu	65	74	He	104.326	ug/l	1.1	157467	100	104.33	90	110	
Cu	65	74	No Gas	105.862	ug/l	0.6	413978	100	105.86	90	110	
Zn	66	74	He	99.242	ug/l	0.6	72031	100	99.24	90	110	
As	75	74	He	99.197	ug/l	0.5	67004	100	99.2	90	110	
Se	78	74	HEHe	40.317	ug/l	2.3	2833	40	100.79	90	110	
Mo	95	103	He	40.116	ug/l	0.3	87381	40	100.29	90	110	
Ag	109	103	No Gas	41.543	ug/l	1.1	530446	40	103.86	90	110	
Cd	111	103	He	100.004	ug/l	0.6	123444	100	100	90	110	
Cd	111	103	No Gas	100.009	ug/l	0.3	308934	100	100.01	90	110	
Sb	123	103	No Gas	42.956	ug/l	1.4	436075	40	107.39	90	110	
Ba	138	159	He	101.806	ug/l	0.8	1098896	100	101.81	90	110	
Hg	201	159	No Gas	884.336	ng/l	2.4	1708	800	110.54	90	110	> +/- 10%
Tl	205	159	No Gas	41.856	ug/l	0.6	1262986	40	104.64	90	110	
Pb	208	159	No Gas	107.692	ug/l	0.3	4408203	100	107.69	90	110	

Hg Q-41 - JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	259198	0.9	291584.83	88.89	70	120	
Ge	74	No Gas	559882	0.3	618159.76	90.57	70	120	
Rh	103	No Gas	543939	0.4	611266.07	88.99	70	120	
Tb	159	No Gas	1133236	0.5	1244803.35	91.04	70	120	
Bi	209	No Gas	751983	0.2	830364.59	90.56	70	120	
Sc	45	He	106383	0.3	114978.37	92.52	70	120	
Ge	74	He	103646	0.9	112248.35	92.34	70	120	
Rh	103	He	271488	1.1	297145.14	91.37	70	120	
Tb	159	He	608136	0.4	637681.1	95.37	70	120	
Ge	74	HEHe	91330	2.2	98336.1	92.88	70	120	

Continuing Calibration Blank (CCB) Report ICPMS6

Sample Name	**0E20067-CCB4**	**Sample Type**	CCB
File Name	073_CCB.d	**Vial #**	1101
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 01:50:30	**Sample QC Pass/Fail**	Pass
Comment	CCB	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	Limit	QC Flag
Be	9	6	No Gas	0.012	ug/l	27.6	48	0.09	
Na	23	45	He	-3.883	ug/l	N/A	31285	45	
Mg	24	45	He	1.147	ug/l	1.9	478	45	
Al	27	45	He	0.439	ug/l	13.9	87	22.5	
K	39	45	He	6.033	ug/l	55.1	37646	45	
Ca	44	45	He	2.174	ug/l	53.8	97	270	
Ti	47	45	He	0.058	ug/l	67.3	6	1.8	
V	51	74	He	0.621	ug/l	10.8	4514	0.9	
Cr	52	74	He	0.068	ug/l	47.6	506	0.45	
Mn	55	74	He	0.012	ug/l	66.9	117	0.45	
Fe	56	74	He	0.573	ug/l	24.1	4946	22.5	
Co	59	74	He	0.009	ug/l	19.5	67	0.09	
Ni	60	74	He	-0.016	ug/l	N/A	54	0.9	
Cu	65	74	He	0.022	ug/l	120.5	129	0.9	
Cu	65	74	No Gas	0.058	ug/l	44.1	621	0.9	
Zn	66	74	He	-0.005	ug/l	N/A	38	1.8	
As	75	74	He	0.101	ug/l	12.2	174	0.45	
Se	78	74	HEHe	0.017	ug/l	131.8	3	0.45	
Mo	95	103	He	0.021	ug/l	51.3	52	0.45	
Ag	109	103	No Gas	0.018	ug/l	9.4	267	0.09	
Cd	111	103	He	0.010	ug/l	33.9	14	0.09	
Cd	111	103	No Gas	0.015	ug/l	27.5	51	0.09	
Sb	123	103	No Gas	0.146	ug/l	13.4	1618	0.45	
Ba	138	159	He	0.015	ug/l	13.4	316	0.45	
Hg	201	159	No Gas	-10.486	ng/l	N/A	12	36	
Tl	205	159	No Gas	0.007	ug/l	22.2	280	0.09	
Pb	208	159	No Gas	0.023	ug/l	7.7	1416	0.09	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	265328	5.0	291584.83	91	70	120	
Ge	74	No Gas	564869	5.3	618159.76	91.38	70	120	
Rh	103	No Gas	556877	5.2	611266.07	91.1	70	120	
Tb	159	No Gas	1143417	5.2	1244803.35	91.86	70	120	
Bi	209	No Gas	756355	4.6	830364.59	91.09	70	120	
Sc	45	He	102995	3.9	114978.37	89.58	70	120	
Ge	74	He	98940	4.8	112248.35	88.14	70	120	
Rh	103	He	265761	4.7	297145.14	89.44	70	120	
Tb	159	He	575457	4.5	637681.1	90.24	70	120	
Ge	74	HEHe	91760	1.0	98336.1	93.31	70	120	

Sample Report ICPMS6

Sample Name	**0050749-BLK1**	**Sample Type**	Sample
File Name	077SMPL.d	**Vial #**	3513
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 02:09:27	**Sample QC Pass/Fail**	Pass
Comment	0050749 Water Biglist - TiMo	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Units	Raw Conc.	Conc RSD	CPS	CPS RSD	LDR	QC Flag
Be	9	6	No Gas	ug/l	0.005	91.7	31	32.7	100	
Na	23	45	He	ug/l	8.154	6.4	37368	0.7	50000	
Mg	24	45	He	ug/l	24.546	2.6	7055	2.7	10000	
Al	27	45	He	ug/l	2.818	10.9	403	10.0	50000	
K	39	45	He	ug/l	7.111	10.3	37973	0.6	50000	
Ca	44	45	He	ug/l	131.751	5.5	2151	5.3	50000	
Ti	47	45	He	ug/l	0.175	20.2	17	20.0	2500	
V	51	74	He	ug/l	1.348	3.1	6477	2.2	500	
Cr	52	74	He	ug/l	0.122	14.4	677	8.2	1000	
Mn	55	74	He	ug/l	0.081	26.4	257	16.9	2500	
Fe	56	74	He	ug/l	2.823	15.9	11087	10.5	50000	
Co	59	74	He	ug/l	0.005	68.7	51	30.8	500	
Ni	60	74	He	ug/l	0.228	22.1	322	16.6	1000	
Cu	65	74	He	ug/l	0.315	2.5	552	2.5	1000	
Cu	65	74	No Gas	ug/l	0.353	5.9	1730	4.7	1000	
Zn	66	74	He	ug/l	0.695	3.1	523	3.3	2500	
As	75	74	He	ug/l	0.171	1.5	220	0.7	500	
Se	78	74	HEHe	ug/l	0.016	124.7	2	56.9	100	
Mo	95	103	He	ug/l	0.016	20.8	41	16.9	100	
Ag	109	103	No Gas	ug/l	0.013	15.9	202	12.2	100	
Cd	111	103	He	ug/l	0.004	123.7	7	86.6	500	
Cd	111	103	No Gas	ug/l	0.005	49.4	20	38.9	500	
Sb	123	103	No Gas	ug/l	0.082	7.8	928	6.8	100	
Ba	138	159	He	ug/l	0.748	2.3	7896	2.4	2500	
W	186	159	No Gas	ug/l	0.009	19.2	197	10.6	40	
Hg	201	159	No Gas	ng/l	-11.111	N/A	10	34.5	4000	
Tl	205	159	No Gas	ug/l	0.004	6.3	169	4.1	100	
Pb	208	159	No Gas	ug/l	0.063	8.2	3031	7.4	500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	259832	0.7	291584.83	89.11	70	120	
Sc	45	He	102906	0.2	114978.37	89.5	70	120	
Ge	74	No Gas	547223	0.3	618159.76	88.52	70	120	
Ge	74	He	99122	0.5	112248.35	88.31	70	120	
Ge	74	HEHe	90979	1.1	98336.1	92.52	70	120	
Rh	103	No Gas	538920	1.4	611266.07	88.16	70	120	
Rh	103	He	267606	0.4	297145.14	90.06	70	120	
Tb	159	No Gas	1121818	0.5	1244803.35	90.12	70	120	
Tb	159	He	582208	0.6	637681.1	91.3	70	120	
Bi	209	No Gas	749199	0.9	830364.59	90.23	70	120	

Sample Report ICPMS6

Sample Name	**0050749-BS1**	**Sample Type**	Sample
File Name	078SMPL.d	**Vial #**	3514
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 02:14:13	**Sample QC Pass/Fail**	Pass
Comment	0050749 Water Biglist - TiMo	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Units	Raw Conc.	Conc RSD	CPS	CPS RSD	LDR	QC Flag
Be	9	6	No Gas	ug/l	25.751	0.5	58711	1.1	100	
Na	23	45	He	ug/l	2747.354	1.3	1436706	1.8	50000	
Mg	24	45	He	ug/l	2699.151	1.9	767041	1.0	10000	
Al	27	45	He	ug/l	2710.436	1.7	364475	1.0	50000	
K	39	45	He	ug/l	2667.552	2.3	870327	0.6	50000	
Ca	44	45	He	ug/l	2726.052	1.9	43738	0.8	50000	
Ti	47	45	He	ug/l	49.159	3.3	4741	0.6	2500	
V	51	74	He	ug/l	51.742	1.8	144104	1.5	500	
Cr	52	74	He	ug/l	51.025	2.7	159646	1.4	1000	
Mn	55	74	He	ug/l	51.804	1.0	106208	1.1	2500	
Fe	56	74	He	ug/l	2698.207	1.5	7474470	0.7	50000	
Co	59	74	He	ug/l	52.51	1.5	232618	0.5	500	
Ni	60	74	He	ug/l	53.188	2.0	59384	0.6	1000	
Cu	65	74	He	ug/l	52.571	2.7	77273	2.0	1000	
Cu	65	74	No Gas	ug/l	52.455	1.4	202805	0.9	1000	
Zn	66	74	He	ug/l	50.322	0.7	35571	1.4	2500	
As	75	74	He	ug/l	50.271	1.9	33101	1.2	500	
Se	78	74	HEHe	ug/l	26.112	1.3	1821	1.7	100	
Mo	95	103	He	ug/l	25.544	3.1	54693	0.9	100	
Ag	109	103	No Gas	ug/l	26.403	0.5	334406	0.4	100	
Cd	111	103	He	ug/l	50.705	1.3	61544	1.6	500	
Cd	111	103	No Gas	ug/l	50.619	0.9	155098	0.7	500	
Sb	123	103	No Gas	ug/l	26.972	0.7	271640	0.7	100	
Ba	138	159	He	ug/l	50.849	1.8	534298	0.4	2500	
W	186	159	No Gas	ug/l	0.026	20.0	420	15.6	40	
Hg	201	159	No Gas	ng/l	1063.159	1.6	2049	1.4	4000	
Tl	205	159	No Gas	ug/l	24.975	1.0	754289	0.7	100	
Pb	208	159	No Gas	ug/l	51.604	0.5	2114420	0.6	500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	256581	0.7	291584.83	88	70	120	
Sc	45	He	104048	2.7	114978.37	90.49	70	120	
Ge	74	No Gas	553029	0.5	618159.76	89.46	70	120	
Ge	74	He	100884	1.8	112248.35	89.88	70	120	
Ge	74	HEHe	90591	0.8	98336.1	92.12	70	120	
Rh	103	No Gas	539530	0.5	611266.07	88.26	70	120	
Rh	103	He	266976	2.2	297145.14	89.85	70	120	
Tb	159	No Gas	1134230	0.4	1244803.35	91.12	70	120	
Tb	159	He	592054	2.1	637681.1	92.84	70	120	
Bi	209	No Gas	748675	1.7	830364.59	90.16	70	120	

Sample Report ICPMS6

Sample Name	**A0E0347-01**	**Sample Type**	Sample
File Name	082SMPL.d	**Vial #**	3603
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 02:33:13	**Sample QC Pass/Fail**	Pass
Comment	0050749 Water As + QC	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Units	Raw Conc.	Conc RSD	CPS	CPS RSD	LDR	QC Flag
Be	9	6	No Gas	ug/l	0.004	30.8	30	11.1	100	
Na	23	45	He	ug/l	209.342	1.3	137344	0.5	50000	
Mg	24	45	He	ug/l	27.992	3.9	7927	3.3	10000	
Al	27	45	He	ug/l	3.462	11.5	483	11.4	50000	
K	39	45	He	ug/l	9.484	14.9	38247	1.5	50000	
Ca	44	45	He	ug/l	165.51	1.5	2654	1.8	50000	
Ti	47	45	He	ug/l	0.106	0.5	10	0.0	2500	
V	51	74	He	ug/l	0.876	4.4	5270	1.2	500	
Cr	52	74	He	ug/l	0.122	10.4	682	6.2	1000	
Mn	55	74	He	ug/l	0.058	21.8	213	12.5	2500	
Fe	56	74	He	ug/l	1.609	1.6	7877	1.2	50000	
Co	59	74	He	ug/l	0.003	152.7	40	43.3	500	
Ni	60	74	He	ug/l	0.028	67.0	104	19.2	1000	
Cu	65	74	He	ug/l	0.251	11.0	466	8.0	1000	
Cu	65	74	No Gas	ug/l	0.274	6.7	1432	4.8	1000	
Zn	66	74	He	ug/l	0.169	17.2	160	12.7	2500	
As	75	74	He	ug/l	0.116	5.5	186	2.9	500	
Se	78	74	HEHe	ug/l	0.006	121.3	2	28.6	100	
Mo	95	103	He	ug/l	0.006	26.0	20	16.7	100	
Ag	109	103	No Gas	ug/l	0.002	74.0	56	27.1	100	
Cd	111	103	He	ug/l	0.001	0.7	3	0.0	500	
Cd	111	103	No Gas	ug/l	0.002	169.6	11	95.5	500	
Sb	123	103	No Gas	ug/l	0.007	35.6	182	14.2	100	
Ba	138	159	He	ug/l	0.194	3.9	2167	3.5	2500	
W	186	159	No Gas	ug/l	0.009	40.7	197	22.9	40	
Hg	201	159	No Gas	ng/l	-9.501	N/A	13	42.0	4000	
Tl	205	159	No Gas	ug/l	0.002	16.0	127	9.1	100	
Pb	208	159	No Gas	ug/l	0.016	14.1	1118	8.5	500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	259937	0.8	291584.83	89.15	70	120	
Sc	45	He	101678	0.5	114978.37	88.43	70	120	
Ge	74	No Gas	548770	0.7	618159.76	88.77	70	120	
Ge	74	He	100241	0.7	112248.35	89.3	70	120	
Ge	74	HEHe	90671	1.7	98336.1	92.21	70	120	
Rh	103	No Gas	544291	1.2	611266.07	89.04	70	120	
Rh	103	He	268030	0.3	297145.14	90.2	70	120	
Tb	159	No Gas	1121269	0.4	1244803.35	90.08	70	120	
Tb	159	He	582808	0.5	637681.1	91.39	70	120	
Bi	209	No Gas	755553	1.1	830364.59	90.99	70	120	

Sample Report ICPMS6

Sample Name	**0050749-DUP1**	**Sample Type**	Sample
File Name	083SMPL.d	**Vial #**	3604
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 02:37:58	**Sample QC Pass/Fail**	Pass
Comment	0050749 Water Biglist - TiMo	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Units	Raw Conc.	Conc RSD	CPS	CPS RSD	LDR	QC Flag
Be	9	6	No Gas	ug/l	0	N/A	19	44.4	100	
Na	23	45	He	ug/l	910.659	1.2	482352	0.5	50000	
Mg	24	45	He	ug/l	11.143	4.1	3214	3.0	10000	
Al	27	45	He	ug/l	1.517	19.9	225	17.4	50000	
K	39	45	He	ug/l	7.28	16.5	37181	0.1	50000	
Ca	44	45	He	ug/l	68.286	11.6	1120	10.9	50000	
Ti	47	45	He	ug/l	0.059	34.2	6	34.7	2500	
V	51	74	He	ug/l	1.025	7.3	5543	2.9	500	
Cr	52	74	He	ug/l	0.117	8.0	651	3.8	1000	
Mn	55	74	He	ug/l	0.003	287.5	100	20.3	2500	
Fe	56	74	He	ug/l	0.337	6.6	4273	1.3	50000	
Co	59	74	He	ug/l	0.003	130.0	39	35.7	500	
Ni	60	74	He	ug/l	-0.01	N/A	61	22.7	1000	
Cu	65	74	He	ug/l	0.107	9.2	249	6.0	1000	
Cu	65	74	No Gas	ug/l	0.126	10.6	857	7.1	1000	
Zn	66	74	He	ug/l	0.455	14.1	352	12.6	2500	
As	75	74	He	ug/l	0.128	16.3	190	6.4	500	
Se	78	74	HEHe	ug/l	0.008	172.0	2	51.1	100	
Mo	95	103	He	ug/l	0.004	68.1	14	35.3	100	
Ag	109	103	No Gas	ug/l	0.001	85.8	44	18.9	100	
Cd	111	103	He	ug/l	0.001	249.3	3	100.1	500	
Cd	111	103	No Gas	ug/l	0.002	15.1	11	7.8	500	
Sb	123	103	No Gas	ug/l	0.001	479.2	113	27.0	100	
Ba	138	159	He	ug/l	0.077	6.1	942	4.5	2500	
W	186	159	No Gas	ug/l	0.008	49.8	180	25.5	40	
Hg	201	159	No Gas	ng/l	-10.204	N/A	12	8.8	4000	
Tl	205	159	No Gas	ug/l	0.002	18.6	126	10.1	100	
Pb	208	159	No Gas	ug/l	0.016	20.0	1122	12.9	500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	257106	1.2	291584.83	88.18	70	120	
Sc	45	He	100626	0.8	114978.37	87.52	70	120	
Ge	74	No Gas	542449	1.6	618159.76	87.75	70	120	
Ge	74	He	97921	0.6	112248.35	87.24	70	120	
Ge	74	HEHe	89803	1.5	98336.1	91.32	70	120	
Rh	103	No Gas	539306	1.7	611266.07	88.23	70	120	
Rh	103	He	265715	0.3	297145.14	89.42	70	120	
Tb	159	No Gas	1119101	1.4	1244803.35	89.9	70	120	
Tb	159	He	574315	0.8	637681.1	90.06	70	120	
Bi	209	No Gas	757122	1.6	830364.59	91.18	70	120	

Continuing Calibration Verification (CCV) Report ICPMS6

Sample Name	**0E20067-CCV5**	**Sample Type**	CCV
File Name	084_CCV.d	**Vial #**	1102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 02:42:43	**Sample QC Pass/Fail**	Fail
Comment	A20E094 JPB 05/20	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Low	High	Flag
Be	9	6	No Gas	41.917	ug/l	0.3	94391	40	104.79	90	110	
Na	23	45	He	4376.918	ug/l	0.1	2173628	4000	109.42	90	110	
Mg	24	45	He	4519.444	ug/l	0.6	1230409	4000	112.99	90	110	> +/- 10%
Al	27	45	He	4311.011	ug/l	1.0	555373	4000	107.78	90	110	
K	39	45	He	4270.268	ug/l	1.6	1314061	4000	106.76	90	110	
Ca	44	45	He	4242.738	ug/l	0.8	65188	4000	106.07	90	110	
Ti	47	45	He	103.863	ug/l	2.9	9598	100	103.86	90	110	
V	51	74	He	102.838	ug/l	0.5	278042	100	102.84	90	110	
Cr	52	74	He	103.807	ug/l	0.3	318223	100	103.81	90	110	
Mn	55	74	He	106.244	ug/l	0.4	213491	100	106.24	90	110	
Fe	56	74	He	4313.664	ug/l	0.6	11716194	4000	107.84	90	110	
Co	59	74	He	107.041	ug/l	0.2	464981	100	107.04	90	110	
Ni	60	74	He	108.363	ug/l	0.6	118574	100	108.36	90	110	
Cu	65	74	He	106.637	ug/l	0.7	153609	100	106.64	90	110	
Cu	65	74	No Gas	104.308	ug/l	1.0	399576	100	104.31	90	110	
Zn	66	74	He	101.803	ug/l	0.9	70515	100	101.8	90	110	
As	75	74	He	100.551	ug/l	0.3	64817	100	100.55	90	110	
Se	78	74	HEHe	41.594	ug/l	0.2	2866	40	103.98	90	110	
Mo	95	103	He	40.547	ug/l	0.4	84925	40	101.37	90	110	
Ag	109	103	No Gas	41.435	ug/l	0.5	519372	40	103.59	90	110	
Cd	111	103	He	101.566	ug/l	0.6	120557	100	101.57	90	110	
Cd	111	103	No Gas	100.047	ug/l	0.8	303380	100	100.05	90	110	
Sb	123	103	No Gas	43.143	ug/l	1.1	429949	40	107.86	90	110	
Ba	138	159	He	102.782	ug/l	0.2	1067253	100	102.78	90	110	
Hg	201	159	No Gas	854.442	ng/l	1.0	1655	800	106.81	90	110	
Tl	205	159	No Gas	41.388	ug/l	0.5	1251007	40	103.47	90	110	
Pb	208	159	No Gas	107.042	ug/l	0.9	4389014	100	107.04	90	110	

Mg Q-41 - JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	253455	0.8	291584.83	86.92	70	120	
Ge	74	No Gas	548475	0.9	618159.76	88.73	70	120	
Rh	103	No Gas	533964	0.4	611266.07	87.35	70	120	
Tb	159	No Gas	1135208	0.8	1244803.35	91.2	70	120	
Bi	209	No Gas	754768	0.5	830364.59	90.9	70	120	
Sc	45	He	99660	1.0	114978.37	86.68	70	120	
Ge	74	He	98913	0.7	112248.35	88.12	70	120	
Rh	103	He	261047	0.2	297145.14	87.85	70	120	
Tb	159	He	585023	0.9	637681.1	91.74	70	120	
Ge	74	HEHe	89521	0.6	98336.1	91.04	70	120	

Continuing Calibration Blank (CCB) Report ICPMS6

Sample Name	**0E20067-CCB5**	**Sample Type**	CCB
File Name	085_CCB.d	**Vial #**	1101
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 02:47:25	**Sample QC Pass/Fail**	Pass
Comment	CCB	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	Limit	QC Flag
Be	9	6	No Gas	0.010	ug/l	24.2	43	0.09	
Na	23	45	He	-8.823	ug/l	N/A	28299	45	
Mg	24	45	He	0.521	ug/l	37.6	297	45	
Al	27	45	He	0.411	ug/l	69.4	82	22.5	
K	39	45	He	5.694	ug/l	46.3	36892	45	
Ca	44	45	He	0.227	ug/l	508.7	65	270	
Ti	47	45	He	0.036	ug/l	100.2	3	1.8	
V	51	74	He	0.437	ug/l	9.3	4000	0.9	
Cr	52	74	He	0.037	ug/l	25.8	410	0.45	
Mn	55	74	He	-0.012	ug/l	N/A	70	0.45	
Fe	56	74	He	0.196	ug/l	21.5	3907	22.5	
Co	59	74	He	0.003	ug/l	109.2	42	0.09	
Ni	60	74	He	-0.012	ug/l	N/A	59	0.9	
Cu	65	74	He	0.008	ug/l	202.6	109	0.9	
Cu	65	74	No Gas	0.051	ug/l	34.0	574	0.9	
Zn	66	74	He	0.010	ug/l	199.5	48	1.8	
As	75	74	He	0.084	ug/l	8.2	162	0.45	
Se	78	74	HEHe	0.013	ug/l	44.5	2	0.45	
Mo	95	103	He	0.026	ug/l	36.3	62	0.45	
Ag	109	103	No Gas	0.018	ug/l	6.9	263	0.09	
Cd	111	103	He	0.012	ug/l	81.8	17	0.09	
Cd	111	103	No Gas	0.026	ug/l	5.5	86	0.09	
Sb	123	103	No Gas	0.147	ug/l	5.3	1600	0.45	
Ba	138	159	He	0.012	ug/l	33.6	282	0.45	
Hg	201	159	No Gas	-9.187	ng/l	N/A	14	36	
Tl	205	159	No Gas	0.008	ug/l	8.2	293	0.09	
Pb	208	159	No Gas	0.024	ug/l	7.5	1475	0.09	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	258105	0.2	291584.83	88.52	70	120	
Ge	74	No Gas	543738	0.5	618159.76	87.96	70	120	
Rh	103	No Gas	543366	0.4	611266.07	88.89	70	120	
Tb	159	No Gas	1127094	0.4	1244803.35	90.54	70	120	
Bi	209	No Gas	748445	0.2	830364.59	90.13	70	120	
Sc	45	He	101145	0.3	114978.37	87.97	70	120	
Ge	74	He	98258	0.3	112248.35	87.54	70	120	
Rh	103	He	264721	1.2	297145.14	89.09	70	120	
Tb	159	He	578081	0.8	637681.1	90.65	70	120	
Ge	74	HEHe	90081	1.0	98336.1	91.6	70	120	

Sample Report ICPMS6

Sample Name	**0050749-MS1**	**Sample Type**	Sample
File Name	086SMPL.d	**Vial #**	3605
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 02:52:11	**Sample QC Pass/Fail**	Pass
Comment	0050749 Water Biglist - TiMo	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Units	Raw Conc.	Conc RSD	CPS	CPS RSD	LDR	QC Flag
Be	9	6	No Gas	ug/l	25.257	1.1	57280	1.5	100	
Na	23	45	He	ug/l	2996.521	1.7	1498609	0.2	50000	
Mg	24	45	He	ug/l	2709.36	2.0	737844	0.4	10000	
Al	27	45	He	ug/l	2707.556	1.1	348941	0.8	50000	
K	39	45	He	ug/l	2683.192	1.1	838897	1.1	50000	
Ca	44	45	He	ug/l	2729.339	1.2	41974	1.8	50000	
Ti	47	45	He	ug/l	49.749	4.6	4597	2.9	2500	
V	51	74	He	ug/l	51.495	0.2	138307	0.7	500	
Cr	52	74	He	ug/l	51.523	0.4	155466	0.8	1000	
Mn	55	74	He	ug/l	51.863	0.4	102528	0.8	2500	
Fe	56	74	He	ug/l	2704.495	0.8	7224517	1.1	50000	
Co	59	74	He	ug/l	52.869	0.4	225852	0.8	500	
Ni	60	74	He	ug/l	53.248	0.8	57330	0.4	1000	
Cu	65	74	He	ug/l	53.202	0.8	75410	0.3	1000	
Cu	65	74	No Gas	ug/l	51.745	0.6	196656	0.4	1000	
Zn	66	74	He	ug/l	51.123	1.1	34844	1.5	2500	
As	75	74	He	ug/l	50.325	0.2	31954	0.8	500	
Se	78	74	HEHe	ug/l	25.272	1.2	1741	1.3	100	
Mo	95	103	He	ug/l	25.366	0.7	53211	1.3	100	
Ag	109	103	No Gas	ug/l	26.224	0.8	327389	0.2	100	
Cd	111	103	He	ug/l	49.999	1.1	59434	0.5	500	
Cd	111	103	No Gas	ug/l	50.076	1.9	151227	1.1	500	
Sb	123	103	No Gas	ug/l	26.918	1.5	267201	0.8	100	
Ba	138	159	He	ug/l	50.423	0.3	518909	0.2	2500	
W	186	159	No Gas	ug/l	0.021	31.0	350	24.7	40	
Hg	201	159	No Gas	ng/l	1058.787	1.5	2037	0.9	4000	
Tl	205	159	No Gas	ug/l	25.015	0.7	753950	0.4	100	
Pb	208	159	No Gas	ug/l	51.053	1.2	2087508	0.0	500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	255214	0.7	291584.83	87.53	70	120	
Sc	45	He	99702	1.8	114978.37	86.71	70	120	
Ge	74	No Gas	543588	0.5	618159.76	87.94	70	120	
Ge	74	He	97267	0.7	112248.35	86.65	70	120	
Ge	74	HEHe	89458	0.1	98336.1	90.97	70	120	
Rh	103	No Gas	531815	0.8	611266.07	87	70	120	
Rh	103	He	261434	0.7	297145.14	87.98	70	120	
Tb	159	No Gas	1131968	1.1	1244803.35	90.94	70	120	
Tb	159	He	579716	0.2	637681.1	90.91	70	120	
Bi	209	No Gas	755154	1.3	830364.59	90.94	70	120	

Sample Report ICPMS6

Sample Name	**A0E0347-02**	**Sample Type**	Sample
File Name	087SMPL.d	**Vial #**	3606
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 02:56:55	**Sample QC Pass/Fail**	Pass
Comment	0050749 Water As	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Units	Raw Conc.	Conc RSD	CPS	CPS RSD	LDR	QC Flag
Be	9	6	No Gas	ug/l	0.012	15.1	48	8.1	100	
Na	23	45	He	ug/l	440.484	6.1	239277	0.2	50000	
Mg	24	45	He	ug/l	18.635	11.6	5035	5.9	10000	
Al	27	45	He	ug/l	4.06	5.1	533	8.5	50000	
K	39	45	He	ug/l	14.328	59.0	37597	1.1	50000	
Ca	44	45	He	ug/l	126.487	7.6	1936	7.6	50000	
Ti	47	45	He	ug/l	0.17	73.6	16	75.3	2500	
V	51	74	He	ug/l	0.653	7.1	4393	4.2	500	
Cr	52	74	He	ug/l	0.273	9.5	1083	3.7	1000	
Mn	55	74	He	ug/l	1.47	4.8	2904	2.6	2500	
Fe	56	74	He	ug/l	10.06	6.5	29263	0.4	50000	
Co	59	74	He	ug/l	0.02	29.7	108	17.6	500	
Ni	60	74	He	ug/l	0.098	6.7	171	6.8	1000	
Cu	65	74	He	ug/l	0.31	7.8	519	2.3	1000	
Cu	65	74	No Gas	ug/l	0.356	6.3	1718	3.0	1000	
Zn	66	74	He	ug/l	1.592	7.1	1089	4.2	2500	
As	75	74	He	ug/l	0.136	13.1	187	0.4	500	
Se	78	74	HEHe	ug/l	0.014	34.9	2	17.4	100	
Mo	95	103	He	ug/l	0.018	25.3	43	26.6	100	
Ag	109	103	No Gas	ug/l	0.016	21.4	236	15.6	100	
Cd	111	103	He	ug/l	0.007	79.5	10	66.7	500	
Cd	111	103	No Gas	ug/l	0.011	32.6	39	31.2	500	
Sb	123	103	No Gas	ug/l	0.037	6.0	481	5.4	100	
Ba	138	159	He	ug/l	0.206	5.1	2194	2.1	2500	
W	186	159	No Gas	ug/l	0.01	58.0	210	31.2	40	
Hg	201	159	No Gas	ng/l	-5.991	N/A	20	22.9	4000	
Tl	205	159	No Gas	ug/l	0.011	8.8	367	10.1	100	
Pb	208	159	No Gas	ug/l	0.048	3.2	2383	6.5	500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	255512	3.0	291584.83	87.63	70	120	
Sc	45	He	96450	5.3	114978.37	83.89	70	120	
Ge	74	No Gas	540659	3.8	618159.76	87.46	70	120	
Ge	74	He	94435	5.7	112248.35	84.13	70	120	
Ge	74	HEHe	87026	4.6	98336.1	88.5	70	120	
Rh	103	No Gas	537302	3.6	611266.07	87.9	70	120	
Rh	103	He	254866	6.3	297145.14	85.77	70	120	
Tb	159	No Gas	1111642	4.3	1244803.35	89.3	70	120	
Tb	159	He	557636	5.4	637681.1	87.45	70	120	
Bi	209	No Gas	752155	3.8	830364.59	90.58	70	120	

Continuing Calibration Verification (CCV) Report ICPMS6

Sample Name	**0E20067-CCV6**	**Sample Type**	CCV
File Name	089_CCV.d	**Vial #**	1102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 03:06:25	**Sample QC Pass/Fail**	Fail
Comment	A20E094 JPB 05/20	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Low	High	Flag
Be	9	6	No Gas	41.817	ug/l	0.7	94525	40	104.54	90	110	
Na	23	45	He	4355.582	ug/l	1.2	2191505	4000	108.89	90	110	
Mg	24	45	He	4488.267	ug/l	2.0	1237898	4000	112.21	90	110	> +/- 10%
Al	27	45	He	4286.780	ug/l	0.9	559532	4000	107.17	90	110	
K	39	45	He	4252.209	ug/l	1.2	1325998	4000	106.31	90	110	
Ca	44	45	He	4205.644	ug/l	0.9	65468	4000	105.14	90	110	
Ti	47	45	He	102.002	ug/l	2.7	9550	100	102	90	110	
V	51	74	He	102.262	ug/l	0.9	276869	100	102.26	90	110	
Cr	52	74	He	104.319	ug/l	1.2	320221	100	104.32	90	110	
Mn	55	74	He	107.117	ug/l	0.9	215533	100	107.12	90	110	
Fe	56	74	He	4342.137	ug/l	1.1	11809147	4000	108.55	90	110	
Co	59	74	He	107.698	ug/l	1.3	468459	100	107.7	90	110	
Ni	60	74	He	108.738	ug/l	1.0	119152	100	108.74	90	110	
Cu	65	74	He	107.894	ug/l	0.9	155636	100	107.89	90	110	
Cu	65	74	No Gas	105.466	ug/l	0.1	403930	100	105.47	90	110	
Zn	66	74	He	102.167	ug/l	1.2	70864	100	102.17	90	110	
As	75	74	He	100.745	ug/l	1.3	65028	100	100.74	90	110	
Se	78	74	HEHe	41.466	ug/l	1.4	2829	40	103.66	90	110	
Mo	95	103	He	41.087	ug/l	0.0	86129	40	102.72	90	110	
Ag	109	103	No Gas	41.694	ug/l	0.5	522199	40	104.24	90	110	
Cd	111	103	He	101.350	ug/l	0.5	120400	100	101.35	90	110	
Cd	111	103	No Gas	100.524	ug/l	0.5	304591	100	100.52	90	110	
Sb	123	103	No Gas	43.216	ug/l	1.3	430344	40	108.04	90	110	
Ba	138	159	He	102.956	ug/l	0.2	1065984	100	102.96	90	110	
Hg	201	159	No Gas	867.330	ng/l	1.6	1671	800	108.42	90	110	
Tl	205	159	No Gas	41.709	ug/l	0.3	1254696	40	104.27	90	110	
Pb	208	159	No Gas	107.668	ug/l	0.5	4393658	100	107.67	90	110	

Mg Q-41 - JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	254424	0.3	291584.83	87.26	70	120	
Ge	74	No Gas	548338	0.1	618159.76	88.7	70	120	
Rh	103	No Gas	533536	0.3	611266.07	87.28	70	120	
Tb	159	No Gas	1129757	0.4	1244803.35	90.76	70	120	
Bi	209	No Gas	754580	0.3	830364.59	90.87	70	120	
Sc	45	He	100971	1.0	114978.37	87.82	70	120	
Ge	74	He	99056	1.4	112248.35	88.25	70	120	
Rh	103	He	261270	0.4	297145.14	87.93	70	120	
Tb	159	He	583333	0.3	637681.1	91.48	70	120	
Ge	74	HEHe	88630	0.8	98336.1	90.13	70	120	

Continuing Calibration Blank (CCB) Report ICPMS6

Sample Name	**0E20067-CCB6**	**Sample Type**	CCB
File Name	090_CCB.d	**Vial #**	1101
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 03:11:08	**Sample QC Pass/Fail**	Pass
Comment	CCB	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	Limit	QC Flag
Be	9	6	No Gas	0.009	ug/l	32.8	40	0.09	
Na	23	45	He	-9.773	ug/l	N/A	27743	45	
Mg	24	45	He	0.537	ug/l	29.9	300	45	
Al	27	45	He	0.261	ug/l	52.5	62	22.5	
K	39	45	He	5.913	ug/l	11.5	36847	45	
Ca	44	45	He	0.456	ug/l	150.3	68	270	
Ti	47	45	He	0.024	ug/l	86.6	2	1.8	
V	51	74	He	0.201	ug/l	19.2	3378	0.9	
Cr	52	74	He	0.056	ug/l	27.7	471	0.45	
Mn	55	74	He	0.000	ug/l	808.2	94	0.45	
Fe	56	74	He	0.078	ug/l	33.8	3596	22.5	
Co	59	74	He	0.006	ug/l	37.2	54	0.09	
Ni	60	74	He	-0.016	ug/l	N/A	54	0.9	
Cu	65	74	He	0.013	ug/l	70.2	116	0.9	
Cu	65	74	No Gas	0.054	ug/l	27.2	587	0.9	
Zn	66	74	He	-0.021	ug/l	N/A	27	1.8	
As	75	74	He	0.066	ug/l	8.4	151	0.45	
Se	78	74	HEHe	0.016	ug/l	94.0	2	0.45	
Mo	95	103	He	0.024	ug/l	37.1	58	0.45	
Ag	109	103	No Gas	0.018	ug/l	8.6	260	0.09	
Cd	111	103	He	0.014	ug/l	29.9	19	0.09	
Cd	111	103	No Gas	0.019	ug/l	27.5	64	0.09	
Sb	123	103	No Gas	0.157	ug/l	0.7	1685	0.45	
Ba	138	159	He	0.010	ug/l	9.4	259	0.45	
Hg	201	159	No Gas	-8.052	ng/l	N/A	16	36	
Tl	205	159	No Gas	0.010	ug/l	5.2	347	0.09	
Pb	208	159	No Gas	0.031	ug/l	9.4	1732	0.09	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	256532	0.0	291584.83	87.98	70	120	
Ge	74	No Gas	545174	0.4	618159.76	88.19	70	120	
Rh	103	No Gas	539180	0.9	611266.07	88.21	70	120	
Tb	159	No Gas	1117854	1.0	1244803.35	89.8	70	120	
Bi	209	No Gas	749937	0.5	830364.59	90.31	70	120	
Sc	45	He	100839	0.4	114978.37	87.7	70	120	
Ge	74	He	98442	0.9	112248.35	87.7	70	120	
Rh	103	He	267220	0.3	297145.14	89.93	70	120	
Tb	159	He	578707	0.9	637681.1	90.75	70	120	
Ge	74	HEHe	89820	1.5	98336.1	91.34	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRLA**	**Sample Type**	CRL2
File Name	092_CRL.d	**Vial #**	2102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 03:20:38	**Sample QC Pass/Fail**	Fail
Comment	A20E189 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	0.947	ug/l	3.2	2196	105.22	70	130	
Na	23	45	He	39.970	ug/l	1.7	52587	88.82	70	130	
Mg	24	45	He	47.616	ug/l	0.9	13323	105.81	70	130	
Al	27	45	He	46.504	ug/l	2.2	6115	103.34	70	130	
K	39	45	He	50.906	ug/l	1.6	50702	113.12	70	130	
Ca	44	45	He	280.769	ug/l	3.6	4440	103.99	70	130	
Ti	47	45	He	0.768	ug/l	30.9	72	85.33	70	130	
V	51	74	He	1.134	ug/l	9.5	5907	126	70	130	
Cr	52	74	He	0.964	ug/l	8.7	3260	107.11	70	130	
Mn	55	74	He	0.953	ug/l	1.9	2014	105.89	70	130	
Fe	56	74	He	46.508	ug/l	1.3	130040	103.35	70	130	
Co	59	74	He	0.945	ug/l	3.0	4147	105	70	130	
Ni	60	74	He	0.883	ug/l	8.7	1041	98.11	70	130	
Cu	65	74	He	0.983	ug/l	5.3	1518	109.22	70	130	
Cu	65	74	No Gas	0.995	ug/l	5.5	4187	110.56	70	130	
Zn	66	74	He	0.922	ug/l	7.0	681	102.44	70	130	
As	75	74	He	0.941	ug/l	0.9	717	104.56	70	130	
Se	78	74	HEHe	0.942	ug/l	4.7	67	104.67	70	130	
Mo	95	103	He	0.902	ug/l	5.2	1936	100.22	70	130	
Ag	109	103	No Gas	0.892	ug/l	2.6	11365	99.11	70	130	
Cd	111	103	He	0.938	ug/l	1.5	1139	104.22	70	130	
Cd	111	103	No Gas	0.875	ug/l	3.1	2695	97.22	70	130	
Sb	123	103	No Gas	0.938	ug/l	1.2	9580	104.22	70	130	
Ba	138	159	He	0.938	ug/l	0.5	9879	104.22	70	130	
Hg	201	159	No Gas	24.709	ng/l	26.2	78	68.64	70	130	CRL2 Failed
Tl	205	159	No Gas	0.911	ug/l	0.8	27399	101.22	70	130	
Pb	208	159	No Gas	0.937	ug/l	0.6	38658	104.11	70	130	

CRL failure < MRL

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	258719	0.8	291584.83	88.73	70	120	
Ge	74	No Gas	548018	0.9	618159.76	88.65	70	120	
Rh	103	No Gas	541369	0.9	611266.07	88.57	70	120	
Tb	159	No Gas	1127599	0.8	1244803.35	90.58	70	120	
Bi	209	No Gas	757564	0.9	830364.59	91.23	70	120	
Sc	45	He	101264	0.7	114978.37	88.07	70	120	
Ge	74	He	99190	0.7	112248.35	88.37	70	120	
Rh	103	He	266562	0.7	297145.14	89.71	70	120	
Tb	159	He	583410	0.2	637681.1	91.49	70	120	
Ge	74	HEHe	90166	0.8	98336.1	91.69	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRLB**	**Sample Type**	CRL3
File Name	093CRL_.d	**Vial #**	2103
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 03:25:23	**Sample QC Pass/Fail**	Pass
Comment	A20E190 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	1.795	ug/l	3.6	4157	99.72	70	130	
Na	23	45	He	88.804	ug/l	2.7	76277	98.67	70	130	
Mg	24	45	He	96.037	ug/l	1.7	26513	106.71	70	130	
Al	27	45	He	95.028	ug/l	2.0	12371	105.59	70	130	
K	39	45	He	97.976	ug/l	4.8	64532	108.86	70	130	
Ca	44	45	He	549.008	ug/l	2.2	8558	101.67	70	130	
Ti	47	45	He	1.897	ug/l	14.1	177	105.39	70	130	
V	51	74	He	2.086	ug/l	1.2	8376	115.89	70	130	
Cr	52	74	He	1.909	ug/l	1.4	6100	106.06	70	130	
Mn	55	74	He	1.871	ug/l	5.1	3821	103.94	70	130	
Fe	56	74	He	93.122	ug/l	3.1	254224	103.47	70	130	
Co	59	74	He	1.919	ug/l	1.5	8301	106.61	70	130	
Ni	60	74	He	1.910	ug/l	8.6	2144	106.11	70	130	
Cu	65	74	He	1.889	ug/l	4.9	2795	104.94	70	130	
Cu	65	74	No Gas	1.918	ug/l	1.9	7744	106.56	70	130	
Zn	66	74	He	1.914	ug/l	4.1	1357	106.33	70	130	
As	75	74	He	1.884	ug/l	5.3	1311	104.67	70	130	
Se	78	74	HEHe	1.788	ug/l	5.1	125	99.33	70	130	
Mo	95	103	He	1.750	ug/l	3.2	3721	97.22	70	130	
Ag	109	103	No Gas	1.804	ug/l	0.8	23022	100.22	70	130	
Cd	111	103	He	1.834	ug/l	2.6	2208	101.89	70	130	
Cd	111	103	No Gas	1.806	ug/l	1.1	5571	100.33	70	130	
Sb	123	103	No Gas	1.898	ug/l	1.5	19333	105.44	70	130	
Ba	138	159	He	1.860	ug/l	1.0	19179	103.33	70	130	
Hg	201	159	No Gas	56.835	ng/l	3.7	139	78.94	70	130	
Tl	205	159	No Gas	1.822	ug/l	0.5	55034	101.22	70	130	
Pb	208	159	No Gas	1.862	ug/l	0.7	76686	103.44	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	259483	0.1	291584.83	88.99	70	120	
Ge	74	No Gas	549955	0.6	618159.76	88.97	70	120	
Rh	103	No Gas	542738	0.4	611266.07	88.79	70	120	
Tb	159	No Gas	1133425	0.2	1244803.35	91.05	70	120	
Bi	209	No Gas	761567	0.5	830364.59	91.71	70	120	
Sc	45	He	100496	1.0	114978.37	87.4	70	120	
Ge	74	He	98173	2.2	112248.35	87.46	70	120	
Rh	103	He	264562	2.0	297145.14	89.03	70	120	
Tb	159	He	576155	1.1	637681.1	90.35	70	120	
Ge	74	HEHe	90036	1.5	98336.1	91.56	70	120	

CRL Verification ICPMS6

Sample Name	**0E20067-CRLC**	**Sample Type**	CRL4
File Name	094CRL4.d	**Vial #**	2104
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 03:30:08	**Sample QC Pass/Fail**	Pass
Comment	A20E191 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	3.686	ug/l	2.4	8445	102.39	70	130	
Na	23	45	He	184.934	ug/l	0.9	123650	102.74	70	130	
Mg	24	45	He	189.898	ug/l	0.8	52256	105.5	70	130	
Al	27	45	He	187.967	ug/l	1.1	24437	104.43	70	130	
K	39	45	He	191.450	ug/l	1.6	92738	106.36	70	130	
Ca	44	45	He	1086.545	ug/l	1.8	16872	100.61	70	130	
Ti	47	45	He	3.648	ug/l	11.9	340	101.33	70	130	
V	51	74	He	3.814	ug/l	1.8	13119	105.94	70	130	
Cr	52	74	He	3.719	ug/l	0.4	11742	103.31	70	130	
Mn	55	74	He	3.717	ug/l	2.9	7592	103.25	70	130	
Fe	56	74	He	183.389	ug/l	0.4	503541	101.88	70	130	
Co	59	74	He	3.727	ug/l	0.9	16289	103.53	70	130	
Ni	60	74	He	3.717	ug/l	3.9	4155	103.25	70	130	
Cu	65	74	He	3.943	ug/l	2.4	5799	109.53	70	130	
Cu	65	74	No Gas	3.882	ug/l	1.2	15248	107.83	70	130	
Zn	66	74	He	3.658	ug/l	1.1	2585	101.61	70	130	
As	75	74	He	3.658	ug/l	1.7	2474	101.61	70	130	
Se	78	74	HEHe	3.514	ug/l	2.4	246	97.61	70	130	
Mo	95	103	He	3.585	ug/l	1.5	7606	99.58	70	130	
Ag	109	103	No Gas	3.618	ug/l	2.0	46214	100.5	70	130	
Cd	111	103	He	3.717	ug/l	4.9	4467	103.25	70	130	
Cd	111	103	No Gas	3.650	ug/l	3.4	11276	101.39	70	130	
Sb	123	103	No Gas	3.739	ug/l	1.5	38050	103.86	70	130	
Ba	138	159	He	3.673	ug/l	0.6	38054	102.03	70	130	
Hg	201	159	No Gas	139.581	ng/l	6.1	294	96.93	70	130	
Tl	205	159	No Gas	3.662	ug/l	0.7	109978	101.72	70	130	
Pb	208	159	No Gas	3.728	ug/l	0.4	152270	103.56	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	257345	0.5	291584.83	88.26	70	120	
Ge	74	No Gas	548792	0.6	618159.76	88.78	70	120	
Rh	103	No Gas	543826	0.5	611266.07	88.97	70	120	
Tb	159	No Gas	1127343	0.3	1244803.35	90.56	70	120	
Bi	209	No Gas	760013	0.2	830364.59	91.53	70	120	
Sc	45	He	100452	0.9	114978.37	87.37	70	120	
Ge	74	He	99345	0.1	112248.35	88.5	70	120	
Rh	103	He	264217	0.1	297145.14	88.92	70	120	
Tb	159	He	581306	0.3	637681.1	91.16	70	120	
Ge	74	HEHe	90617	0.4	98336.1	92.15	70	120	

Continuing Calibration Verification (CCV) Report ICPMS6

Sample Name	**0E20067-CCV7**	**Sample Type**	CCV
File Name	102_CCV.d	**Vial #**	1102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 04:08:19	**Sample QC Pass/Fail**	Fail
Comment	A20E094 JPB 05/20	**ISTD Ref FileName**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Low	High	Flag
Be	9	6	No Gas	37.995	ug/l	0.8	60974	40	94.99	90	110	
Na	23	45	He	4284.552	ug/l	0.1	1732549	4000	107.11	90	110	
Mg	24	45	He	4314.702	ug/l	0.4	956207	4000	107.87	90	110	
Al	27	45	He	4520.049	ug/l	0.5	474013	4000	113	90	110	> +/- 10%
K	39	45	He	4213.245	ug/l	0.4	1055814	4000	105.33	90	110	
Ca	44	45	He	4343.744	ug/l	0.7	54326	4000	108.59	90	110	
Ti	47	45	He	104.398	ug/l	1.2	7854	100	104.4	90	110	
V	51	74	He	98.614	ug/l	0.8	214829	100	98.61	90	110	
Cr	52	74	He	100.652	ug/l	1.3	248519	100	100.65	90	110	
Mn	55	74	He	109.678	ug/l	0.8	177501	100	109.68	90	110	
Fe	56	74	He	4358.632	ug/l	0.6	9534620	4000	108.97	90	110	
Co	59	74	He	103.149	ug/l	1.1	360887	100	103.15	90	110	
Ni	60	74	He	103.885	ug/l	1.1	91558	100	103.88	90	110	
Cu	65	74	He	102.021	ug/l	0.1	118371	100	102.02	90	110	
Cu	65	74	No Gas	105.733	ug/l	0.2	297974	100	105.73	90	110	
Zn	66	74	He	101.411	ug/l	0.1	56577	100	101.41	90	110	
As	75	74	He	99.501	ug/l	0.5	51660	100	99.5	90	110	
Se	78	74	HEHe	41.476	ug/l	1.7	2257	40	103.69	90	110	
Mo	95	103	He	41.212	ug/l	0.5	68679	40	103.03	90	110	
Ag	109	103	No Gas	41.650	ug/l	0.7	405979	40	104.12	90	110	
Cd	111	103	He	106.183	ug/l	0.6	100282	100	106.18	90	110	
Cd	111	103	No Gas	100.576	ug/l	0.5	237174	100	100.58	90	110	
Sb	123	103	No Gas	43.768	ug/l	1.0	339197	40	109.42	90	110	
Ba	138	159	He	103.843	ug/l	0.7	940558	100	103.84	90	110	
Hg	201	159	No Gas	905.590	ng/l	1.4	1443	800	113.2	90	110	> +/- 10%
Tl	205	159	No Gas	44.093	ug/l	0.3	1097732	40	110.23	90	110	> +/- 10%
Pb	208	159	No Gas	114.891	ug/l	0.4	3880108	100	114.89	90	110	> +/- 10%

Tl Rounds down in LIMS - JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	180628	0.7	291584.83	61.95	70	120	Recovery Failed
Ge	74	No Gas	403478	0.5	618159.76	65.27	70	120	Recovery Failed
Rh	103	No Gas	415234	0.2	611266.07	67.93	70	120	Recovery Failed
Tb	159	No Gas	934976	0.1	1244803.35	75.11	70	120	
Bi	209	No Gas	661031	0.5	830364.59	79.61	70	120	
Sc	45	He	81122	0.6	114978.37	70.55	70	120	
Ge	74	He	79666	0.1	112248.35	70.97	70	120	
Rh	103	He	207703	0.8	297145.14	69.9	70	120	Recovery Failed
Tb	159	He	510291	0.3	637681.1	80.02	70	120	
Ge	74	HEHe	70700	0.6	98336.1	71.9	70	120	

Be, Ag, Sb Q-06 and so Q-14 - JPB 05/21/20

103 He ok 70% - JPB 05/21/20

Continuing Calibration Blank (CCB) Report ICPMS6

Sample Name	**0E20067-CCB7**	**Sample Type**	CCB
File Name	103_CCB.d	**Vial #**	1101
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 04:13:03	**Sample QC Pass/Fail**	Pass
Comment	CCB	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	Limit	QC Flag
Be	9	6	No Gas	0.012	ug/l	89.3	33	0.09	
Na	23	45	He	43.209	ug/l	4.3	42703	45	
Mg	24	45	He	0.725	ug/l	26.6	278	45	
Al	27	45	He	0.159	ug/l	46.8	38	22.5	
K	39	45	He	0.104	ug/l	619.3	27762	45	
Ca	44	45	He	-0.418	ug/l	N/A	43	270	
Ti	47	45	He	0.015	ug/l	173.2	1	1.8	
V	51	74	He	-0.888	ug/l	N/A	386	0.9	
Cr	52	74	He	0.029	ug/l	17.5	312	0.45	
Mn	55	74	He	0.010	ug/l	132.1	91	0.45	
Fe	56	74	He	5.141	ug/l	11.3	13926	22.5	
Co	59	74	He	0.002	ug/l	93.5	30	0.09	
Ni	60	74	He	-0.005	ug/l	N/A	53	0.9	
Cu	65	74	He	0.005	ug/l	110.0	84	0.9	
Cu	65	74	No Gas	0.120	ug/l	10.3	620	0.9	
Zn	66	74	He	0.041	ug/l	68.2	56	1.8	
As	75	74	He	-0.091	ug/l	N/A	40	0.45	
Se	78	74	HEHe	0.018	ug/l	71.1	2	0.45	
Mo	95	103	He	0.023	ug/l	40.9	44	0.45	
Ag	109	103	No Gas	0.015	ug/l	11.0	178	0.09	
Cd	111	103	He	0.002	ug/l	190.7	3	0.09	
Cd	111	103	No Gas	0.010	ug/l	80.5	27	0.09	
Sb	123	103	No Gas	0.141	ug/l	5.0	1199	0.45	
Ba	138	159	He	0.014	ug/l	33.1	266	0.45	
Hg	201	159	No Gas	-10.565	ng/l	N/A	9	36	
Tl	205	159	No Gas	0.009	ug/l	13.3	271	0.09	
Pb	208	159	No Gas	0.026	ug/l	12.3	1269	0.09	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	181585	0.6	291584.83	62.28	70	120	Recovery Failed
Ge	74	No Gas	404139	0.4	618159.76	65.38	70	120	Recovery Failed
Rh	103	No Gas	423137	0.2	611266.07	69.22	70	120	Recovery Failed
Tb	159	No Gas	935772	0.3	1244803.35	75.17	70	120	
Bi	209	No Gas	658373	1.4	830364.59	79.29	70	120	
Sc	45	He	79787	0.2	114978.37	69.39	70	120	Recovery Failed
Ge	74	He	79365	0.7	112248.35	70.71	70	120	
Rh	103	He	211160	0.5	297145.14	71.06	70	120	
Tb	159	He	505618	1.3	637681.1	79.29	70	120	
Ge	74	HEHe	69857	1.4	98336.1	71.04	70	120	

Be, Na, Mg, Al, K, Ca, Ti, Ag, Sb Q-06 and so Q-14 - JPB 05/21/20

CRL Verification ICPMS6

Sample Name	**0E20067-CRLE**	**Sample Type**	CRL2
File Name	105_CRL.d	**Vial #**	2102
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 04:22:34	**Sample QC Pass/Fail**	Fail
Comment	A20E189 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	0.858	ug/l	7.6	1422	95.33	70	130	
Na	23	45	He	58.099	ug/l	3.1	49437	129.11	70	130	
Mg	24	45	He	45.970	ug/l	3.5	10327	102.16	70	130	
Al	27	45	He	49.874	ug/l	2.0	5262	110.83	70	130	
K	39	45	He	39.943	ug/l	2.7	38011	88.76	70	130	
Ca	44	45	He	278.233	ug/l	3.4	3532	103.05	70	130	
Ti	47	45	He	0.722	ug/l	30.0	54	80.22	70	130	
V	51	74	He	-0.042	ug/l	N/A	2228	-4.67	70	130	CRL2 Failed
Cr	52	74	He	0.904	ug/l	2.9	2492	100.44	70	130	
Mn	55	74	He	1.005	ug/l	7.4	1713	111.67	70	130	
Fe	56	74	He	50.635	ug/l	2.6	114340	112.52	70	130	
Co	59	74	He	0.881	ug/l	1.4	3128	97.89	70	130	
Ni	60	74	He	0.920	ug/l	1.7	876	102.22	70	130	
Cu	65	74	He	0.889	ug/l	5.6	1118	98.78	70	130	
Cu	65	74	No Gas	1.065	ug/l	3.2	3323	118.33	70	130	
Zn	66	74	He	0.921	ug/l	6.1	551	102.33	70	130	
As	75	74	He	0.792	ug/l	2.7	502	88	70	130	
Se	78	74	HEHe	0.799	ug/l	15.1	44	88.78	70	130	
Mo	95	103	He	0.910	ug/l	7.2	1557	101.11	70	130	
Ag	109	103	No Gas	0.732	ug/l	0.4	7382	81.33	70	130	
Cd	111	103	He	0.985	ug/l	4.2	952	109.44	70	130	
Cd	111	103	No Gas	0.879	ug/l	5.9	2140	97.67	70	130	
Sb	123	103	No Gas	0.971	ug/l	1.7	7838	107.89	70	130	
Ba	138	159	He	0.908	ug/l	1.7	8344	100.89	70	130	
Hg	201	159	No Gas	25.596	ng/l	22.6	67	71.1	70	130	
Tl	205	159	No Gas	0.955	ug/l	0.9	24100	106.11	70	130	
Pb	208	159	No Gas	0.982	ug/l	1.5	33940	109.11	70	130	

V < MRL
JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	184709	0.4	291584.83	63.35	70	120	Recovery Failed
Ge	74	No Gas	408518	0.2	618159.76	66.09	70	120	Recovery Failed
Rh	103	No Gas	427868	0.6	611266.07	70	70	120	Recovery Failed
Tb	159	No Gas	945894	0.3	1244803.35	75.99	70	120	
Bi	209	No Gas	673464	0.5	830364.59	81.1	70	120	
Sc	45	He	81268	0.2	114978.37	70.68	70	120	
Ge	74	He	80281	0.6	112248.35	71.52	70	120	
Rh	103	He	212358	0.3	297145.14	71.47	70	120	
Tb	159	He	509202	0.8	637681.1	79.85	70	120	
Ge	74	HEHe	70560	1.0	98336.1	71.75	70	120	

Be only Q-06
R-11 - JPB
05/21/20

CRL Verification ICPMS6

Sample Name	**0E20067-CRLF**	**Sample Type**	CRL3
File Name	106CRL_.d	**Vial #**	2103
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 04:27:20	**Sample QC Pass/Fail**	Fail
Comment	A20E190 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	1.717	ug/l	1.5	2835	95.39	70	130	
Na	23	45	He	97.610	ug/l	2.2	65825	108.46	70	130	
Mg	24	45	He	90.591	ug/l	1.7	20429	100.66	70	130	
Al	27	45	He	98.000	ug/l	1.6	10417	108.89	70	130	
K	39	45	He	83.395	ug/l	3.2	49094	92.66	70	130	
Ca	44	45	He	541.385	ug/l	2.9	6893	100.26	70	130	
Ti	47	45	He	1.711	ug/l	16.7	130	95.06	70	130	
V	51	74	He	0.928	ug/l	3.1	4304	51.56	70	130	CRL3 Failed
Cr	52	74	He	1.772	ug/l	0.6	4617	98.44	70	130	
Mn	55	74	He	1.899	ug/l	3.1	3150	105.5	70	130	
Fe	56	74	He	97.405	ug/l	1.6	215926	108.23	70	130	
Co	59	74	He	1.813	ug/l	1.4	6370	100.72	70	130	
Ni	60	74	He	1.706	ug/l	7.9	1562	94.78	70	130	
Cu	65	74	He	1.860	ug/l	0.3	2237	103.33	70	130	
Cu	65	74	No Gas	1.949	ug/l	2.9	5911	108.28	70	130	
Zn	66	74	He	1.944	ug/l	3.7	1118	108	70	130	
As	75	74	He	1.681	ug/l	3.7	960	93.39	70	130	
Se	78	74	HEHe	1.809	ug/l	9.4	98	100.5	70	130	
Mo	95	103	He	1.750	ug/l	2.4	3005	97.22	70	130	
Ag	109	103	No Gas	1.533	ug/l	3.4	15527	85.17	70	130	
Cd	111	103	He	1.911	ug/l	7.5	1858	106.17	70	130	
Cd	111	103	No Gas	1.777	ug/l	1.5	4353	98.72	70	130	
Sb	123	103	No Gas	1.871	ug/l	1.8	15130	103.94	70	130	
Ba	138	159	He	1.788	ug/l	1.0	16432	99.33	70	130	
Hg	201	159	No Gas	61.277	ng/l	4.0	124	85.11	70	130	
Tl	205	159	No Gas	1.886	ug/l	2.0	47993	104.78	70	130	
Pb	208	159	No Gas	1.934	ug/l	2.1	67118	107.44	70	130	

V R-11 - JPB 05/21/20

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	184912	2.0	291584.83	63.42	70	120	Recovery Failed
Ge	74	No Gas	413538	1.4	618159.76	66.9	70	120	Recovery Failed
Rh	103	No Gas	430927	1.3	611266.07	70.5	70	120	
Tb	159	No Gas	955110	1.5	1244803.35	76.73	70	120	
Bi	209	No Gas	678398	1.6	830364.59	81.7	70	120	
Sc	45	He	82055	1.4	114978.37	71.37	70	120	
Ge	74	He	79732	0.4	112248.35	71.03	70	120	
Rh	103	He	213640	0.5	297145.14	71.9	70	120	
Tb	159	He	513240	0.8	637681.1	80.49	70	120	
Ge	74	HEHe	69452	2.7	98336.1	70.63	70	120	

Be only Q-06 -11 - JPB 05/21/20

CRL Verification ICPMS6

Sample Name	**0E20067-CRLG**	**Sample Type**	CRL4
File Name	107CRL4.d	**Vial #**	2104
Data Path Name	D:\Agilent\ICPMH\1\DATA\0E20067_6020.b	**Total Dilution**	1.0000
Acq Time	05/21/2020 04:32:07	**Sample QC Pass/Fail**	Pass
Comment	A20E191 JPB 05/20	**ISTD Ref File**	004CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	%QC Low	%QC High	Flag
Be	9	6	No Gas	3.413	ug/l	2.7	5646	94.81	70	130	
Na	23	45	He	188.017	ug/l	1.2	100963	104.45	70	130	
Mg	24	45	He	188.494	ug/l	2.5	41836	104.72	70	130	
Al	27	45	He	200.221	ug/l	0.5	20993	111.23	70	130	
K	39	45	He	180.344	ug/l	3.4	72092	100.19	70	130	
Ca	44	45	He	1101.919	ug/l	2.4	13800	102.03	70	130	
Ti	47	45	He	3.727	ug/l	2.0	280	103.53	70	130	
V	51	74	He	2.651	ug/l	2.3	8046	73.64	70	130	
Cr	52	74	He	3.628	ug/l	1.5	9228	100.78	70	130	
Mn	55	74	He	3.818	ug/l	1.3	6277	106.06	70	130	
Fe	56	74	He	188.287	ug/l	0.7	416130	104.6	70	130	
Co	59	74	He	3.568	ug/l	1.3	12556	99.11	70	130	
Ni	60	74	He	3.709	ug/l	0.6	3338	103.03	70	130	
Cu	65	74	He	3.708	ug/l	1.7	4395	103	70	130	
Cu	65	74	No Gas	3.896	ug/l	3.2	11594	108.22	70	130	
Zn	66	74	He	3.680	ug/l	3.4	2094	102.22	70	130	
As	75	74	He	3.457	ug/l	1.6	1887	96.03	70	130	
Se	78	74	HEHe	3.565	ug/l	1.5	197	99.03	70	130	
Mo	95	103	He	3.529	ug/l	1.5	6060	98.03	70	130	
Ag	109	103	No Gas	3.387	ug/l	1.3	34164	94.08	70	130	
Cd	111	103	He	3.831	ug/l	3.5	3726	106.42	70	130	
Cd	111	103	No Gas	3.640	ug/l	2.4	8878	101.11	70	130	
Sb	123	103	No Gas	3.809	ug/l	1.3	30599	105.81	70	130	
Ba	138	159	He	3.615	ug/l	0.5	33084	100.42	70	130	
Hg	201	159	No Gas	137.607	ng/l	5.2	246	95.56	70	130	
Tl	205	159	No Gas	3.812	ug/l	0.6	96839	105.89	70	130	
Pb	208	159	No Gas	3.931	ug/l	1.0	135782	109.19	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	185753	0.5	291584.83	63.7	70	120	Recovery Failed
Ge	74	No Gas	415716	0.6	618159.76	67.25	70	120	Recovery Failed
Rh	103	No Gas	429323	0.5	611266.07	70.23	70	120	
Tb	159	No Gas	953643	0.6	1244803.35	76.61	70	120	
Bi	209	No Gas	680108	0.5	830364.59	81.9	70	120	
Sc	45	He	81027	1.2	114978.37	70.47	70	120	
Ge	74	He	79980	0.6	112248.35	71.25	70	120	
Rh	103	He	213863	0.5	297145.14	71.97	70	120	
Tb	159	He	513409	0.6	637681.1	80.51	70	120	
Ge	74	HEHe	71280	0.8	98336.1	72.49	70	120	

Be Q-06, R-11
JPB 05/21/20

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Metals IFA/IFB Metals Internal Standards Recovery Summary

A20E205 IFA
A20E206 IFB
A0E0347 (I.S Tables)

Analytical Standard Record

Apex Laboratories

A20E205

Description:	ICSA working std	Expires:	08/05/20
Standard Type:	Calibration Standa	Prepared:	05/18/20
Solvent:	3.5% HNO3 + 0.4% HCl	Prepared By:	Kevin Taucher
Final Volume (mls):	50	Department:	Metals
Vials:	1	Last Edit:	05/27/20 17:16 by jsj

Analyte	CAS Number	Concentration	Units
Aluminum	7429-90-5	100	ug/mL
Calcium	7440-70-2	300	ug/mL
Carbon	7440-44-0	200	ug/mL
Chlorine	7782-50-5	2000	ug/mL
Iron	7439-89-6	250	ug/mL
Magnesium	7439-95-4	100	ug/mL
Molybdenum	7439-98-7	2	ug/mL
Phosphorus	7723-14-0	100	ug/mL
Potassium	7440-09-7	100	ug/mL
Sodium	7440-23-5	250	ug/mL
Sulfur	7704-34-9	100	ug/mL
Titanium	7440-32-6	2	ug/mL
Tungsten	7440-33-7	0.1	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
A19K163	6020A ICS Interferents A	11/11/19	Marshall Pattee	10/30/20	03/26/20 16:04 by arf	5
A20A078	Conc. HCl - Omnitrace	01/06/20	Chris R. Lee	01/14/22	03/25/20 15:34 by jsj	0.2
A20B207	Conc. HNO3 - Omnitrace	02/17/20	Chris R. Lee	02/15/22	02/27/20 15:22 by jsj	1.75
A20E204	1 W 10 ppm	05/18/20	Kevin Taucher	08/05/20	05/27/20 17:16 by jsj	0.5

Reviewed By Date

Analytical Standard Record

Apex Laboratories

A20E206

Description:	ICSA+B working std	Expires:	08/05/20
Standard Type:	Calibration Standa	Prepared:	05/18/20
Solvent:	3.5% HNO3 + 0.4% HCl	Prepared By:	Kevin Taucher
Final Volume (mls):	50	Department:	Metals
Vials:	1	Last Edit:	05/27/20 17:16 by jsj

Analyte	CAS Number	Concentration	Units
Aluminum	7429-90-5	100	ug/mL
Arsenic	7440-38-2	0.1	ug/mL
Cadmium	7440-43-9	0.1	ug/mL
Calcium	7440-70-2	300	ug/mL
Carbon	7440-44-0	200	ug/mL
Chlorine	7782-50-5	2000	ug/mL
Chromium	7440-47-3	0.2	ug/mL
Cobalt	7440-48-4	0.2	ug/mL
Copper	7440-50-8	0.2	ug/mL
Iron	7439-89-6	250	ug/mL
Magnesium	7439-95-4	100	ug/mL
Manganese	7439-96-5	0.2	ug/mL
Mercury	7439-97-6	0.002	ug/mL
Molybdenum	7439-98-7	2	ug/mL
Nickel	7440-02-0	0.2	ug/mL
Phosphorus	7723-14-0	100	ug/mL
Potassium	7440-09-7	100	ug/mL
Selenium	7782-49-2	0.1	ug/mL
Silver	7440-22-4	0.05	ug/mL
Sodium	7440-23-5	250	ug/mL
Sulfur	7704-34-9	100	ug/mL
Titanium	7440-32-6	2	ug/mL
Tungsten	7440-33-7	0.1	ug/mL
Vanadium	7440-62-2	0.2	ug/mL
Zinc	7440-66-6	0.1	ug/mL

Reviewed By Date

Analytical Standard Record

Apex Laboratories

A20E206

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
A19K163	6020A ICS Interferents A	11/11/19	Marshall Pattee	10/30/20	03/26/20 16:04 by arf	5
A19K267	6020A & CLP-M ICS Analytes B	11/19/19	Emily S. Stefansson	11/11/20	12/02/19 15:04 by jsj	0.5
A20A078	Conc. HCl - Omnitrace	01/06/20	Chris R. Lee	01/14/22	03/25/20 15:34 by jsj	0.2
A20B207	Conc. HNO3 - Omnitrace	02/17/20	Chris R. Lee	02/15/22	02/27/20 15:22 by jsj	1.75
A20B268	1 Hg Stock 1.00ppm Primary Std	02/20/20	Marshall Pattee	08/19/20	03/25/20 15:34 by jsj	0.1
A20E204	1 W 10 ppm	05/18/20	Kevin Taucher	08/05/20	05/27/20 17:16 by jsj	0.5

Reviewed By Date

		6 Li (ISTD) [No Gas]	45 Sc (ISTD) [He]	74 Ge (ISTD) [No Gas]	74 Ge (ISTD) [He]	74 Ge (ISTD) [HEHe]	103 Rh (ISTD) [No Gas]	103 Rh (ISTD) [He]	159 Tb (ISTD) [No Gas]	159 Tb (ISTD) [He]	209 Bi (ISTD) [No Gas]
Acq. Date-Time	Sample Name	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value
05/20/2020 20:07	rinse										
05/20/2020 20:12	rinse										
05/20/2020 20:16	rinse										
05/20/2020 20:21	0E20067-CAL0	100	100	100	100	100	100	100	100	100	100
05/20/2020 20:26	0E20067-CAL1	97.64817209	99.82440465	98.04090829	100.0017164	100.0874145	98.34259571	100.1450099	97.41139246	100.323403	97.8162167
05/20/2020 20:31	0E20067-CAL2	100.20451	100.9609924	100.7504651	101.5363967	99.88288465	100.415248	101.8137724	100.0947314	102.3745579	99.95971328
05/20/2020 20:36	0E20067-CAL3	96.61975781	101.0048847	98.80574131	101.1209846	100.3543155	97.79325228	100.4695674	97.37666328	99.75809852	98.81797625
05/20/2020 20:41	0E20067-CAL4	97.19471685	101.1318999	100.7772171	101.2620319	101.6394047	100.0620832	100.8913848	99.86275503	100.599368	100.9531508
05/20/2020 20:46	0E20067-CAL5	95.62501583	100.9653497	99.10613237	102.1440167	101.6799188	98.250019	101.8058986	97.94265255	101.4857291	99.47460469
05/20/2020 20:51	0E20067-CAL6	95.43790505	99.58235912	99.40796912	100.1753641	99.6243326	97.7651325	99.48996979	99.44344034	101.4832435	100.3261724
05/20/2020 20:56	0E20067-CAL7	99.07190987	98.95900417	103.2236639	101.815899	99.78360948	101.0739704	98.8077151	103.4536593	100.9232828	102.5240262
05/20/2020 21:01	0E20067-CAL8	92.57055191	97.2975554	96.1355508	98.82276814	101.8265656	93.61569883	96.43114701	97.82891437	99.60073982	95.9593131
05/20/2020 21:06	0E20067-CAL9	86.50744492	92.07761692	91.51743614	92.19651484	93.9106459	88.0721641	89.14455532	94.06842186	94.63964822	91.60318605
05/20/2020 21:10	0E20067-ICV1	91.84092204	97.23766587	95.61833931	98.3298047	99.08899512	93.45270161	97.33312036	94.77319664	98.63098446	95.38014743
05/20/2020 21:15	0E20067-ICB1	92.55435194	100.0104773	94.11077974	100.3666394	98.91530509	93.67508213	101.1953732	94.24832391	101.4600835	93.13619779
05/20/2020 21:20	0E20067-CRL1	93.7913939	96.418735	94.5114108	96.57627336	96.95388231	95.11321093	96.78204175	94.83554651	97.16664331	95.8973897
05/20/2020 21:25	0E20067-CRL2	93.55320478	96.37588346	94.39937396	96.34681787	96.8937213	94.74887313	96.78493147	94.64586247	97.25353889	95.48009429
05/20/2020 21:29	0E20067-CRL3	95.23026164	95.12296951	97.05238013	95.14389595	96.76246736	97.33581863	96.04735477	97.60622324	96.83277789	98.34951738
05/20/2020 21:34	0E20067-CRL4	91.98068583	94.79208408	93.38509302	95.99391587	97.68107541	93.36392685	95.69771419	93.68048589	96.77813668	94.58663375
05/20/2020 21:39	0E20067-IFA1	73.25846105	90.90932468	77.51317892	89.44568599	86.71766184	72.19542968	83.80324192	80.50140209	92.7854654	75.57735663
05/20/2020 21:44	0E20067-IFB1	76.98860371	87.21402084	83.30707969	86.16061023	86.98876608	77.32376223	79.80930935	85.15809478	88.69439175	80.18857323
05/20/2020 21:48	rinse	88.53217305	92.47128228	90.00785552	93.61739096	94.48452128	90.50655574	92.71462769	91.54922583	95.14151036	92.79502276
05/20/2020 21:53	0050755-BLK1	83.43408198	92.81423085	83.97849997	93.02130796	96.45565904	85.10812858	94.06732241	85.56451775	94.95407028	85.97002277
05/20/2020 21:58	0050755-BLK2	89.94675283	93.32232063	90.81996273	94.62259356	96.35992275	90.9855212	94.33016814	91.89863925	95.68304751	94.00350596
05/20/2020 22:03	0050755-BLK3	91.8785646	97.09142386	93.52102929	96.46439643	98.81652143	93.53414569	97.5365002	93.23210744	96.93875929	94.36743646
05/20/2020 22:08	0050755-BS1	92.19159758	97.83032518	96.49621485	97.95972354	98.25979133	94.34969126	96.53533739	95.42971426	98.1449207	94.70477824
05/20/2020 22:12	A0E0236-30	91.22811466	101.0579121	94.17477992	98.28453603	101.0015515	92.953891	96.40851497	95.72117395	98.34859304	93.85069116
05/20/2020 22:17	A0E0236-32	91.84473225	102.8611846	95.37329479	100.0107737	101.6211035	93.40763667	98.67750152	94.76473453	99.22737451	94.54166194
05/20/2020 22:22	A0E0236-34	92.46355846	109.3348024	98.57733326	101.4455417	104.2492872	95.52745553	99.33431185	97.58290068	101.4914221	93.52938692
05/20/2020 22:26	A0E0236-36	91.9425174	110.285503	98.82893219	102.9854722	105.1102833	95.42405538	100.1418016	96.63158067	101.4098296	91.68744261
05/20/2020 22:31	0050755-DUP1	91.57254845	110.2632843	98.36421953	102.7716309	104.1577949	94.86382853	99.92262367	96.16915984	101.5824435	91.4330102
05/20/2020 22:36	0E20067-CCV1	91.32329908	101.7968018	98.37608324	102.0861836	102.4404737	95.16717816	99.05179896	94.01129932	98.64560462	92.45765007
05/20/2020 22:41	0E20067-CCB1	91.3215946	103.937906	97.19646856	103.4718907	102.9790857	96.23666879	101.7090683	93.46497073	99.26782838	91.84541258
05/20/2020 22:45	0050755-MS1	89.88484632	106.4757138	97.6761795	100.6576281	102.6169332	93.91347205	96.62364104	95.8262374	98.72202683	90.45419278
05/20/2020 22:50	A0E0236-38	90.46824087	107.7200697	96.85106756	101.5462707	103.3594512	93.81877624	99.27343027	94.83153758	100.2356633	91.78343338
05/20/2020 22:55	A0E0236-40	91.79851357	105.9678995	97.66571888	99.37211252	106.2755658	95.41509148	97.2947003	95.38757347	98.05494365	91.94254381
05/20/2020 22:59	A0E0236-42	91.52899337	103.7840075	97.45930514	101.061245	101.8063966	95.47661188	98.9379242	94.55470028	97.88123352	92.10865076
05/20/2020 23:04	A0E0236-44	90.16507695	107.8603685	97.97625133	100.9167885	105.4682834	94.78433178	98.70494153	95.98279225	99.98205634	92.13525233
05/20/2020 23:09	A0E0236-46	89.92094788	106.6223588	96.99394055	99.06324681	101.4063943	94.39007847	97.09176917	95.07846253	98.85294441	90.85995068
05/20/2020 23:14	A0E0236-48	90.97969067	112.1369324	97.61031357	97.5448429	98.39066223	94.74490923	96.05357171	97.97300647	98.46860862	91.81451932
05/20/2020 23:18	A0E0236-50	87.96861949	114.1452059	93.82561776	98.63328355	100.5231548	91.24007593	96.81810942	94.04635171	100.1775522	90.05885198
05/20/2020 23:23	A0E0236-52	88.35612251	113.2593581	93.65645706	95.36588585	94.61561929	91.38704357	92.57442797	96.5471036	98.37777586	89.97465724
05/20/2020 23:28	0050755-MSD1	89.77819582	101.688077	95.94667083	98.32409712	100.4951793	93.81833617	97.01882165	93.35132547	97.50958641	92.25274128
05/20/2020 23:33	0E20067-CCV2	88.65741734	98.40421285	95.00497954	97.29878138	98.84428336	92.84449947	95.29427947	93.35236285	96.67359017	91.18056768
05/20/2020 23:37	0E20067-CCB2	90.33528128	100.123974	95.35643075	99.78421955	100.234529	94.62809975	98.287001	92.17543264	96.28023159	90.27529345
05/20/2020 23:42	0E20067-CRL5	90.63230862	104.4747055	96.37142888	101.5211419	100.6933635	95.65514624	101.2960838	92.80654812	98.58422127	90.36935053
05/20/2020 23:47	0E20067-CRL6	90.97205081	100.0337136	96.93953875	99.79456268	100.6632152	95.62678925	98.55757921	92.84578752	96.65653515	90.79890079
05/20/2020 23:52	0E20067-CRL7	91.47276616	101.1229069	97.2811128	100.0359827	100.8056248	96.24614748	98.27841821	92.6936979	96.11598857	92.31185708
05/20/2020 23:56	0E20067-CRL8	91.44276232	99.97673765	97.32366275	98.57428936	99.58159821	95.93115971	97.60075163	94.34657182	97.00623502	92.9475698
05/21/2020 00:01	0050776-BLK1	89.21378145	98.9900158	93.19816292	97.87018696	99.01132951	92.64808145	97.97716364	90.51191767	96.11567598	88.37227397
05/21/2020 00:06	0050776-BS1	90.46343038	98.36614482	96.396451	97.62760284	98.66947133	94.41069306	95.91957771	93.63830895	95.82623507	91.87236018
05/21/2020 00:11	A0E0223-02	89.84462246	99.54732934	95.01215514	98.23297477	98.6207405	91.9804791	94.90730248	91.9178131	95.66924907	91.23454999
05/21/2020 00:15	0050776-DUP1	85.24667516	96.27710256	89.4517749	97.1179413	97.17235074	86.55308365	93.950052	86.29329337	94.91048109	85.53745817
05/21/2020 00:20	0050776-MS1	87.2804664	97.20505394	93.29515349	95.54006213	96.33043884	89.97224286	92.22587327	90.47030842	94.6233569	89.11509385
05/21/2020 00:25	0050776-MSD1	90.62349815	99.07398812	93.87397796	98.93406006	96.85378344	92.71430902	97.07433773	91.92029568	97.63825731	91.61914049
05/21/2020 00:30	0050754-BLK1	90.54591409	96.20575291	92.61525051	94.80594592	95.82161587	92.62596397	94.82546481	91.18215259	93.79063868	89.73412153
05/21/2020 00:34	0050754-BS1	92.41169705	96.36189822	95.89095924	95.41732536	96.20026962	93.8056212	93.70155727	95.63662057	95.38315832	93.08476215
05/21/2020 00:39	A0E0328-03RE1	87.29481443	91.34180314	91.18654488	90.35790133	91.28477741	87.1393445	87.25897287	90.46490987	91.20535584	89.32769685
05/21/2020 00:44	A0E0362-01RE1	88.35555664	93.5879793	91.10142017	94.32136864	97.45481059	88.51217871	92.25317755	92.01403713	96.06349734	90.55560847
05/21/2020 00:48	0E20067-CCV3	89.58266095	87.69566217	93.19732818	88.34401872	95.04391571	91.78645829	86.66858238	94.21293786	90.00670236	94.1253705
05/21/2020 00:53	0E20067-CCB3	89.66158939	93.5148757	91.44100391	92.92439191	95.52713263	91.73045758	93.55603131	91.62920847	93.62196399	92.52370097
05/21/2020 00:58	A0E0483-01RE1	78.71876918	88.78996658	83.98377854	88.65038699	88.8700623	79.02599097	82.13272833	84.57971133	88.47657337	81.10117035
05/21/2020 01:03	A0E0497-01	86.6963585	92.91929699	90.47833961	92.10576666	92.56070761	86.07094008	87.29258495	90.24405957	92.08478863	86.92486238
05/21/2020 01:07	A0E0534-01	86.29278583	88.10652787	87.13725458	87.76023285	88.15651966	84.61845475	85.64103964	88.36727477	90.73216268	88.60788172
05/21/2020 01:12	A0E0534-02	85.70289003	86.61456604	86.28945433	85.94722031	88.02524878	84.34508388	84.26288598	88.85572328	90.50109263	89.16088819
05/21/2020 01:17	A0E0534-03	83.93217489	86.47874049	85.08638077	86.64023421	88.10572109	82.58027683	83.26156949	87.99608147	90.24341524	87.4703288
05/21/2020 01:22	A0E0534-04	81.21909819	86.72532601	82.400505	86.60253803	89.25687854	79.06353654	84.00741263	85.61522643	90.78534653	84.04572549
05/21/2020 01:26	A0E0534-05	82.49565409	85.34113519	85.13217853	85.58962931	88.52319748	81.91291114	82.89745562	87.88308665	89.84372225	87.19098283
05/21/2020 01:31	A0E0534-06	84.45046432	87.74948969	86.70314997	88.48407126	91.16018092	83.84628527	85.36170926	89.47465611	91.66494816	88.6763131
05/21/2020 01:36	A0E0534-07	85.31165682	88.22588945	87.66633355	88.4632365	90.92223846	84.00055142	84.8647759	89.58292167	90.79880414	87.91284325
05/21/2020 01:41	A0E0534-08	86.44379163	89.56163928	88.31570721	89.51860465	92.32059573	85.33077467	87.25988039	90.27562493	91.78313524	89.85045999
05/21/2020 01:45	0E20067-CCV4	88.89284111	92.52415309	90.57231693	92.33596752	92.8752208	88.98569483	91.36551595	91.03732784	95.36674625	90.56056934
05/21/2020 01:50	0E20067-CCB4	90.99506641	89.57743065	91.37912616	88.14347828	93.31224579	91.10220361	89.43796748	91.85521526	90.24213718	91.08710151
05/21/2020 01:55	0050754-DUP1	86.72633377	89.38662954	88.68754797	88.61359358	92.07487044	85.42258358	86.56356636	89.21653984	91.33701308	89.69375011
05/21/2020 02:00	0050754-MS1	86.4710267	90.5423658	88.64157442	90.2004855	91.27167947	85.0371633	87.8514611	90.24886622	93.19019435	89.71854203
05/21/2020 02:04	0050754-MSD1	88.46580014	90.13305691	89.73612965	89.71494904	94.3325798	87.51155498	88.90308185	91.01119305	92.41272998	91.82643939
05/21/2020 02:09	0050749-BLK1	89.11016037	89.50048284	88.52452863	88.30582662	92.51866473	88.16459466	90.05907921	90.12009139	91.30082101	90.22532905
05/21/2020 02:14	0050749-BS1	87.99547731	90.49351023	89.46381008	89.87547701	92.12404532	88.26428611	89.84712219	91.11722935	92.84484827	90.16225314
05/21/2020 02:18	A0E0223-01	87.57652662	88.33582317	88.62420189	88.67428935	92.53200673	86.53768501	87.60295291	89.69366313	90.72208188	90.09349058
05/21/2020 02:23	A0E0264-01	88.88902747	90.17474012	88.52269793	89.78970292	92.91335871	87.85475141	91.16610835	89.09984992	92.16800316	89.4101538
05/21/2020 02:28	A0E0264-02	89.03732508	89.19971902	88.38169231	89.49186039	92.33990366	88.77549449	90.65163699	89.47392186	92.17588118	89.63034302
05/21/2020 02:33	A0E0347-01	89.14634996	88.43240076	88.77480967	89.30323103	92.20559218	89.0432137	90.20165375	90.0759859	91.3949642	90.9904536
05/21/2020 02:37	0050749-DUP1	88.17532321	87.51731558	87.75227196	87.23614794	91.3226238	88.22770902	89.42276616	89.90183282	90.06309993	91.17941236
05/21/2020 02:42	0E20067-CCV5	86.92325417	86.67684153	88.72699948	88.12009263	91.03606576	87.35378353	87.85174267	91.19574402	91.74223862	90.89596057
05/21/2020 02:47	0E20067-CCB5	88.51789333	87.96841783	87.96074935	87.53617017	91.60472095	88.89183608	89.0881003	90.54393692	90.65363126	90.13455286
05/21/2020 02:52	0050749-MS1	87.52655602	86.71332085	87.93641476	86.6531223	90.97194892	87.0022912	87.98197868	90.93552595	90.90995479	90.94242329
05/21/2020 02:56	A0E0347-02	87.62872755	83.88507287	87.46274271	84.130374	88.49873037	87.89992541	85.77155723	89.30261234	87.44746388	90.58126106
05/21/2020 03:01	0050749-MSD1	89.03749999	87.97397829	88.90988801	88.43303859	93.09636373	88.5484477	89.74852166	90.29579827	92.01534274	92.2128568
05/21/2020 03:06	0E20067-CCV6	87.2555314	87.817775	88.70490433	88.24674631	90.12974211	87.28383418	87.92662526	90.75786094	91.47722057	90.87338253
05/21/2020 03:11	0E20067-CCB6	87.97867946	87.70253303	88.19300754	87.70044578	91.33999959	88.20715824	89.92916402	89.8016585	90.75175711	90.31415469
05/21/2020 03:15	0E20067-CRL9	89.72428469	89.11345642	90.02818468	90.01716284	91.3829916	90.72711272	90.82776192	92.02338399	92.68689001	92.20696139
05/21/2020 03:20	0E20067-CRLA	88.72871849	88.07220547	88.65316258	88.36637985	91.69139648	88.56525107	89.70773576	90.5845195	91.489294	91.23270903
05/21/2020 03:25	0E20067-CRLB	88.99063083	87.4040102	88.96655406	87.46087285	91.55976289	88.78919011	89.03471337	91.05251631	90.35165639	91.71472059
05/21/2020 03:30	0E20067-CRLC	88.2573245	87.36572764	88.77831469	88.50498025	92.15051915	88.96716225	88.91866346	90.56390607	91.15942379	91.5276056
05/21/2020 03:34	A0E0504-01	76.62534521	82.4911005	85.99668913	81.10108226	80.66659819	83.55651947	80.76108777	84.44119092	84.1566361	81.18535907
05/21/2020 03:39	A0E0504-02	61.78070217	63.12467476	63.31946959	64.27462557	66.66003634	64.77228138	65.10223068	72.966319	75.10263607	73.85477716
05/21/2020 03:44	A0E0504-03	54.98271927	67.05809296	60.19569731	67.25552165	68.82951429	61.09177226	64.9745198	69.96990087	75.80761698	72.61005204
05/21/2020 03:49	A0E0504-04	57.23190809	68.99697363	63.00041776	67.72820269	66.71342806	63.44632686	64.42746728	72.05599021	75.05496857	73.38114184
05/21/2020 03:53	A0E0504-05	56.92567016	63.42392525	62.03635793	63.31541919	68.48222236	62.84694575	61.04220807	71.72428213	71.28587352	74.23959206
05/21/2020 03:58	A0E0504-06	54.47895505	67.52855247	60.35654138	67.30629893	66.3630786	60.64371041	63.87245681	69.377196	75.00400318	70.94181537
05/21/2020 04:03	A0E0504-07	54.59481385	68.23367062	60.53213191	67.26840677	67.40175785	61.01762288	63.91569942	69.20944153	74.9203574	70.48943858
05/21/2020 04:08	0E20067-CCV7	61.94711572	70.55437095	65.27090847	70.97277005	71.89582463	67.93014684	69.89967294	75.1103037	80.02290528	79.60732253
05/21/2020 04:13	0E20067-CCB7	62.27510718	69.39295827	65.37768292	70.70510762	71.03930296	69.22306446	71.06284075	75.17425222	79.29006092	79.28725509
05/21/2020 04:17	0E20067-CRLD	63.04869796	69.95262297	65.5746223	70.61855252	70.16531738	69.45671558	71.47251821	75.66703983	79.65821986	80.61910499
05/21/2020 04:22	0E20067-CRLE	63.34669586	70.68118321	66.08609525	71.52126512	71.75367947	69.99706293	71.46592547	75.98741252	79.85210988	81.10458611
05/21/2020 04:27	0E20067-CRLF	63.41631426	71.36580765	66.89826879	71.03164545	70.62759251	70.49737916	71.89743401	76.72779613	80.48534072	81.69880822
05/21/2020 04:32	0E20067-CRLG	63.70446025	70.47142202	67.25064101	71.25259302	72.48652665	70.23497787	71.97259593	76.6099395	80.51191931	81.90473945
05/21/2020 04:36	Final rinse	59.66980015	70.88508534	62.20095615	71.51125755	72.6085944	65.77018616	72.65755524	70.8997535	80.2652469	75.6416316
05/21/2020 04:41	Final rinse	64.63801249	71.26412766	67.48550479	71.77298672	73.59281756	71.4307294	72.9653588	77.4704947	80.57894445	81.30766237